



(12)发明专利申请

(10)申请公布号 CN 111344408 A

(43)申请公布日 2020.06.26

(21)申请号 201880073183.6

(22)申请日 2018.12.10

(30)优先权数据

17206545.0 2017.12.11 EP

(85)PCT国际申请进入国家阶段日

2020.05.12

(86)PCT国际申请的申请数据

PCT/EP2018/084075 2018.12.10

(87)PCT国际申请的公布数据

W02019/115416 EN 2019.06.20

(71)申请人 哥本哈根罗氏创新中心

地址 丹麦赫斯霍尔姆

(72)发明人 P·哈格多恩 L·彼得森

(74)专利代理机构 北京坤瑞律师事务所 11494

代理人 岑晓东

(51)Int.Cl.

C12N 15/113(2006.01)

A61K 31/7088(2006.01)

权利要求书2页 说明书37页

序列表323页

(54)发明名称

用于调控FNDC3B表达的寡核苷酸

(57)摘要

本发明涉及能够调控靶细胞中FNDC3B的表
达的反义寡核苷酸。该寡核苷酸与FNDC3B前mRNA
或mRNA杂交。本发明进一步涉及该寡核苷酸的缀
合物和使用该寡核苷酸治疗癌症,诸如肝细胞癌
或急性髓样白血病的药学组合物和方法。

1. 一种长度为10至50个核苷酸的反义寡核苷酸,其包含与哺乳动物FNDC3B靶核酸具有至少90%互补性,诸如完全互补的长度为10至30个核苷酸的连续核苷酸序列,其中该反义寡核苷酸能够降低细胞中该哺乳动物FNDC3B编码靶核酸的表达。

2. 依照权利要求1的反义寡核苷酸,其中该连续核苷酸序列与选自SEQ ID NO:1,2,3,4,5,6,7和8,或其天然发生变体组成的组的序列至少90%互补,诸如完全互补。

3. 依照权利要求1或2的反义寡核苷酸,其中该连续核苷酸序列与该哺乳动物FNDC3B编码靶核酸完全互补。

4. 依照权利要求1-3任一项的反义寡核苷酸,其中该连续核苷酸序列与哺乳动物FNDC3B编码靶核酸的前mRNA(例如SEQ ID NO:1)中存在的内含子区至少90%互补,诸如完全互补。

5. 依照权利要求1-4任一项的反义寡核苷酸,其中该连续核苷酸序列与选自SEQ ID NO:1上的位置145-72824,SEQ ID NO:1上的位置72964-93844,和SEQ ID NO:1上的位置93920-147084的人FNDC3B的前mRNA中存在的内含子区至少90%互补,诸如完全互补。

6. 依照权利要求1-5任一项的反义寡核苷酸,其中该连续核苷酸序列与SEQ ID NO:1的哺乳动物FNDC3B编码靶核酸的人前mRNA的核苷酸145-72824至少90%互补,诸如完全互补。

7. 依照权利要求1-5任一项的反义寡核苷酸,其中该连续核苷酸序列与SEQ ID NO:9,10,19或20至少90%互补,诸如完全互补。

8. 依照权利要求1-7任一项的反义寡核苷酸,其中该连续核苷酸序列与选自SEQ ID NO:1的位置54366-54385,54407-54426,54448-54467,54489-54508,54530-54549,54571-54590,54612-54631;54367-54384,54408-54425,54449-54466,54490-54507,54531-54548,54572-54589,54613-54630;54368-54383,54409-54424,54450-54465,54491-54506,54532-54547,54573-54588,54614-54629;54366-54379,54407-54420,54448-54461,54489-54502,54530-54543,54571-54584,54612-54625;351016-351033;351016-351029;351016-351035;和351018-351133组成的组的SEQ ID NO:1的靶区至少90%互补,诸如完全互补。

9. 依照权利要求1-8任一项的反义寡核苷酸,其中该连续核苷酸序列与SEQ ID NO:1的靶核酸的长度为10-22个,诸如14-20个核苷酸的靶区至少90%互补,诸如完全互补,其中该靶区跨越该靶核酸重复至少2次。

10. 依照权利要求1-9任一项的反义寡核苷酸,其中该连续核苷酸序列与选自SEQ ID NO:11,12,13,14,15,16,17和18组成的组的序列至少90%同一,诸如100%同一。

11. 依照权利要求1-10任一项的反义寡核苷酸,其中该连续核苷酸序列由选自SEQ ID NO:11,12,13,14,15,16,17和18组成的组的序列组成或构成。

12. 权利要求1-11任一项的反义寡核苷酸,其中该连续核苷酸序列包含一个或多个2'糖修饰的核苷。

13. 权利要求12的反义寡核苷酸,其中该一个或多个2'糖修饰的核苷独立选自2'-O-烷基-RNA,2'-O-甲基-RNA,2'-烷氧基-RNA,2'-O-甲氧基乙基-RNA,2'-氨基-DNA,2'-氟-DNA,阿拉伯糖核酸(ANA),2'-氟-ANA和LNA核苷组成的组。

14. 权利要求12或13任一项的反义寡核苷酸,其中该一个或多个修饰的核苷是LNA核苷。

15. 权利要求1-14任一项的反义寡核苷酸, 其中该连续核苷酸序列包含至少一个修饰的核苷间连接。

16. 权利要求1-15任一项的反义寡核苷酸, 其中该连续核苷酸序列内至少50%, 诸如至少75%, 诸如至少90%, 诸如所有的核苷间连接是硫代磷酸酯核苷间连接。

17. 权利要求1-16任一项的反义寡核苷酸, 其中该反义寡核苷酸能够募集RNA酶H。

18. 权利要求1-17任一项的反义寡核苷酸, 其中该反义寡核苷酸或其连续核苷酸序列由式5'-F-G-F'-3'的缺口体组成或构成, 其中F和F'区独立包含1-8个核苷, 其中1-5个是2'糖修饰的核苷且定义该F和F'区的5'和3'端, 且G是能够募集RNA酶H的介于6和17个核苷之间的区域, 诸如包含6-17个DNA核苷的区域。

19. 权利要求1-18任一项的反义寡核苷酸, 其中该反义寡核苷酸或其连续核苷酸序列选自由GaatttgctagtggtggtGG (化合物ID 11_1); GCTagtggtggtGG (化合物ID 12_1); AATttgctagtggtgGTG (化合物ID 13_1); ATTTgctagtggtgGT (化合物ID 14_1); TTatttctacagtttccAGA (化合物ID 15_1); ATTTctacagtttccAGA (化合物ID 16_1); CTacagtttccAGA (化合物ID 17_1); 和ATTTctacagtttCCA (化合物ID 18_1)组成的组; 其中大写字母代表LNA核苷, 诸如β-D-氧基LNA核苷, 小写字母代表DNA核苷, 任选地, 所有LNA C是5-甲基胞嘧啶, 且所有核苷间连接是硫代磷酸酯核苷间连接。

20. 一种缀合物, 其包含依照权利要求1-19任一项的反义寡核苷酸, 和至少一个共价附着至所述寡核苷酸的缀合物模块。

21. 依照权利要求1-19任一项的反义寡核苷酸或依照权利要求20的缀合物的药学可接受盐。

22. 一种药学组合物, 其包含权利要求1-19任一项的反义寡核苷酸或权利要求20的缀合物, 和药学可接受稀释剂, 溶剂, 载剂, 盐和/或佐剂。

23. 一种用于抑制表达哺乳动物FNDC3B的靶细胞中的该哺乳动物FNDC3B表达的体内或体外方法, 所述方法包含以有效量将权利要求1-19任一项的反义寡核苷酸, 依照权利要求20的缀合物, 权利要求21的药学可接受盐, 或权利要求22的药学组合物施用于所述细胞。

24. 一种用于治疗或预防疾病的方法, 其包含将治疗或预防有效量的权利要求1-19任一项的寡核苷酸, 依照权利要求20的缀合物, 权利要求21的药学可接受盐, 或权利要求22的药学组合物施用于罹患或易感该疾病的受试者。

25. 权利要求24的方法, 其中该疾病选自癌症, 诸如急性髓样白血病, 肝细胞癌组成的组。

26. 权利要求1-19任一项的反义寡核苷酸, 依照权利要求20的缀合物, 权利要求21的药学可接受盐, 或权利要求22的药学组合物, 其供药物中使用。

27. 权利要求1-19任一项的反义寡核苷酸, 依照权利要求20的缀合物, 权利要求21的药学可接受盐, 或权利要求22的药学组合物, 其供治疗或预防癌症, 诸如肝细胞癌或急性髓样白血病中使用。

28. 权利要求1-19任一项的反义寡核苷酸, 依照权利要求20的缀合物, 权利要求21的药学可接受盐, 或权利要求22的药学组合物用于制备用于治疗或预防癌症, 诸如肝细胞癌或急性髓样白血病的药物的用途。

用于调控FNDC3B表达的寡核苷酸

发明领域

[0001] 本发明涉及与哺乳动物FNDC3B(含有纤连蛋白III型域的3B或FAD104)转录物互补的反义寡核苷酸(寡聚物)和它们在治疗中的用途。此类寡核苷酸可用于减少细胞中的FNDC3B转录物,导致对FNDC3B的表达的调控。对FNDC3B表达的调控对于一系列医学病症,诸如癌症,诸如肝细胞癌和/或急性髓样白血病是有益的。

[0002] 发明背景

[0003] Cai C et al.,Cell Cycle.2012May 1;11(9):1773-81公开了FNDC3B扩增和过表达是致癌驱动力,而且是维持致瘤表型所需要的,特别是在肝细胞癌中。该文章提到shRNA介导的对FNDC3B的抑制。

[0004] Chin-Hui Lin,Oncotarget.2016Aug 2;7(31):49498-49508提到了RNA干扰(通过短发夹RNA)介导的对FNDC3B的抑制。似乎没有公开shRNA或siRNA化合物。

[0005] W02010110346公开了用于AML(急性髓样白血病)的治疗剂,其靶向白血病干细胞,包含能够抑制选自白血病标志物基因(诸如FNDC3B)的基因的表达的活性物质或能够抑制所述基因的翻译产物的活性的物质作为活性组分。似乎没有公开具体的siRNA化合物。

[0006] 靶向相同RNA中的重复位点的反义寡核苷酸已经显示在体外转染实验的一些情况中具有增强的下调靶mRNA的效力。GCGR,STST3,MAPT,OGFR,和BOK RNA就是这种情况(Vickers et al.,PLOS one,October 2014,Volume 9,Issue 10)。WO 2013/120003也提到了通过重复靶向来调控RNA。

[0007] 发明目的

[0008] FNDC3B牵涉多种癌症的发生和进展。本发明提供能够在体内或在体外调控FNDC3B mRNA和蛋白质表达的反义寡核苷酸。相应地,本发明可以潜在地与已知的癌症护理一起用于组合疗法且潜在地能缓解癌症,特别是诸如急性髓样白血病和/或肝细胞癌等癌症的症状。

[0009] 发明概述

[0010] 本发明提供与哺乳动物FNDC3B核酸互补且靶向哺乳动物FNDC3B核酸的寡核苷酸,及其用途。

[0011] 本发明提供寡核苷酸,其包含与靶哺乳动物FNDC3B核酸中存在的某些区域或序列互补的连续核苷酸序列。

[0012] 本发明的寡核苷酸能够抑制表达哺乳动物FNDC3B核酸的细胞中的该哺乳动物FNDC3B核酸。

[0013] 本发明提供一种靶向哺乳动物FNDC3B核酸的反义寡核苷酸,及其体外和体内用途,和它们在药物中的用途。

[0014] 本发明涉及靶向FNDC3B核酸的寡核苷酸和它们治疗或预防与FNDC3B的功能有关的疾病或缓解该疾病的症状的用途。

[0015] 相应地,在第一个方面,本发明提供一种长度为10至50个核苷酸的反义寡核苷酸,其包含与哺乳动物FNDC3B核酸具有至少90%互补性,诸如完全互补的长度为10至30个核苷

酸的连续核苷酸序列,其中该反义寡核苷酸能够降低细胞中该哺乳动物FNDC3B编码靶核酸的表达。

[0016] 相应地,在又一个方面,本发明提供该反义寡核苷酸,其中该连续核苷酸序列与选自SEQ ID NO:1,2,3,4,5,6,7和8,或其天然发生变体组成的组的序列至少90%互补,诸如完全互补。

[0017] 相应地,在又一个方面,本发明提供一种长度为10至30个核苷酸的反义寡核苷酸,其包含与人FNDC3B靶核酸,诸如SEQ ID NO:1完全互补的长度为10至30个核苷酸的连续核苷酸序列,其中该反义寡核苷酸能够降低细胞中人FNDC3B的表达。

[0018] 在又一个方面,本发明提供该反义寡核苷酸,其中该连续核苷酸序列与SEQ ID NO:1的多于一个区域至少90%互补,诸如完全互补。

[0019] 在又一个方面,本发明提供该反义寡核苷酸,其中该连续核苷酸序列与选自SEQ ID NO:1的位置54366-54385,54407-54426,54448-54467,54489-54508,54530-54549,54571-54590,54612-54631;54367-54384,54408-54425,54449-54466,54490-54507,54531-54548,54572-54589,54613-54630;54368-54383,54409-54424,54450-54465,54491-54506,54532-54547,54573-54588,54614-54629;54366-54379,54407-54420,54448-54461,54489-54502,54530-54543,54571-54584,54612-54625;351016-351033;351016-351029;351016-351035;351018-35133组成的组的SEQ ID NO:1的区域至少90%互补,诸如完全互补。

[0020] 在又一个方面,本发明提供该反义寡核苷酸,其中该反义寡核苷酸或其连续核苷酸序列选自由GaatttgctagtggtggtGG(化合物ID 11_1);GCTagtggtggtGG(化合物ID 12_1);AATttgctagtggtgGTG(化合物ID 13_1);ATTTgctagtggtgGT(化合物ID 14_1);TTattttctacagtttccAGA(化合物ID 15_1);ATTTctacagtttccAGA(化合物ID 16_1);CTacagtttccCAGA(化合物ID 17_1);和ATTTctacagtttCCA(化合物ID 18_1)组成的组;其中大写字母代表LNA核苷,诸如 β -D-氧基LNA核苷,小写字母代表DNA核苷,任选地,所有LNA C是5-甲基胞嘧啶,其中该化合物包含硫代磷酸酯核苷间连接。

[0021] 在又一个方面,本发明提供该反义寡核苷酸,其中该反义寡核苷酸或其连续核苷酸序列选自由GaatttgctagtggtggtGG(化合物ID 11_1);GCTagtggtggtGG(化合物ID 12_1);AATttgctagtggtgGTG(化合物ID 13_1);ATTTgctagtggtgGT(化合物ID 14_1);TTattttctacagtttccAGA(化合物ID 15_1);ATTTctacagtttccAGA(化合物ID 16_1);CTacagtttccCAGA(化合物ID 17_1);和ATTTctacagtttCCA(化合物ID 18_1)组成的组;其中大写字母代表 β -D-氧基LNA核苷,小写字母代表DNA核苷,所有LNAC是5-甲基胞嘧啶,且所有核苷间连接是硫代磷酸酯核苷间连接。

[0022] 在又一个方面,本发明提供一种缀合物,其包含依照本发明的反义寡核苷酸,和至少一个共价附着至所述寡核苷酸的缀合物模块。

[0023] 在又一个方面,本发明提供一种药学组合物,其包含依照本发明的寡核苷酸或依照本发明的缀合物,和药学可接受稀释剂,溶剂,载剂,盐和/或佐剂。

[0024] 在又一个方面,本发明提供依照本发明的反义寡核苷酸或缀合物的药学可接受盐。

[0025] 在又一个方面,本发明提供一种用于抑制表达哺乳动物FNDC3B的靶细胞中的该哺

乳动物FNDC3B表达的方法,诸如体内或体外方法,所述方法包含以有效量将依照本发明的寡核苷酸,缀合物,药学可接受盐,或药学组合物施用于所述细胞。

[0026] 在又一个方面,本发明提供一种用于治疗或预防疾病的方法,其包含将治疗或预防有效量的依照本发明的寡核苷酸,缀合物,药学可接受盐,或药学组合物施用于罹患或易感该疾病的受试者。

[0027] 在又一个方面,本发明提供该寡核苷酸,该缀合物,该药学可接受盐,或该药学组合物用于制备用于治疗或预防癌症,诸如肝细胞癌或急性髓样白血病的药物的用途。

[0028] 定义

[0029] 寡核苷酸

[0030] 如本文中使用的术语“寡核苷酸”定义为技术人员一般将其理解为包含两个或更多个共价连接的核苷的分子。此类共价结合的核苷还可以称作核酸分子或寡聚物。寡核苷酸通常在实验室中通过固相化学合成来生成,继以纯化。在提及寡核苷酸的序列时,提及共价连接的核苷酸或核苷的核碱基模块或其修饰的序列或次序。本发明的寡核苷酸是人造的,而且是化学合成的,而且典型地是纯化的或分离的。本发明的寡核苷酸可包含一个或多个修饰的核苷或核苷酸。

[0031] 反义寡核苷酸

[0032] 如本文中使用的术语“反义寡核苷酸”定义为能够在表达靶核酸的细胞中通过与靶核酸,特别是靶核酸上的连续序列杂交来调控靶基因的表达的寡核苷酸。反义寡核苷酸本质上不是双链的,而且因此不是siRNA或shRNA。优选地,本发明的反义寡核苷酸是单链的。理解的是,本发明的单链寡核苷酸能形成发夹或分子间双链体结构(相同寡核苷酸的两个分子之间的双链体),只要跨越寡核苷酸的全长自身内或间互补性的程度少于50%。本发明的反义寡核苷酸是人造的,而且是化学合成的,而且典型地是纯化的或分离的。本发明的反义寡核苷酸可包含一个或多个修饰的核苷或核苷酸。

[0033] 连续核苷酸序列

[0034] 术语“连续核苷酸序列”指寡核苷酸中与靶核酸互补的区域。该术语在本文中与术语“连续核碱基序列”和术语“寡核苷酸基序序列”可互换使用。在一些实施方案中,寡核苷酸的所有核苷酸构成连续核苷酸序列。在一些实施方案中,寡核苷酸包含连续核苷酸序列,诸如F-G-F' 缺口体区,而且可任选地包含一个或多个别的核苷酸,例如可用于将官能团附着至连续核苷酸序列的核苷酸接头区。核苷酸接头区可以是或不是与靶核酸互补的。

[0035] 核苷酸

[0036] 核苷酸是寡核苷酸和多核苷酸的构件块,而且出于本发明的目的包括天然发生和非天然发生核苷酸二者。在自然界中,核苷酸,诸如DNA和RNA核苷酸包含核糖糖模块,核碱基模块和一个或多个磷酸根基团(其在核苷中缺失)。核苷和核苷酸还可以可互换地称作“单元”或“单体”。

[0037] 修饰的核苷

[0038] 如本文中使用的术语“修饰的核苷”或“核苷修饰”指与等同的DNA或RNA核苷相比通过引入一处或多处糖模块或(核)碱基模块的修饰而修饰的核苷。在一个优选的实施方案中,修饰的核苷包含修饰的糖模块。术语修饰的核苷在本文中还可以与术语“核苷类似物”或修饰的“单元”或修饰的“单体”可互换使用。具有未修饰的DNA或RNA糖模块的核苷在本文

中称作DNA或RNA核苷。如果它们容许Watson Crick碱基配对的话,具有DNA或RNA核苷的碱基区中的修饰的核苷一般仍然称作DNA或RNA。

[0039] 修饰的核苷间连接

[0040] 术语“修饰的核苷间连接”定义为技术人员一般理解为除了磷酸二酯(PO)连接以外将两个核苷共价偶联到一起的连接。本发明的寡核苷酸因此可包含修饰的核苷间连接。在一些实施方案中,修饰的核苷间连接与磷酸二酯连接相比提高寡核苷酸的核酸酶抗性。对于天然发生寡核苷酸,核苷间连接包括创建相邻核苷之间的磷酸二酯键的磷酸根基团。修饰的核苷间连接在稳定用于体内使用的寡核苷酸中特别有用,而且可用来在本发明的寡核苷酸中的DNA或RNA核苷的区域针对核酸酶切割提供保护,例如在缺口体寡核苷酸的缺口区内,以及在修饰的核苷的区域,诸如F和F'区中。

[0041] 在一个实施方案中,寡核苷酸包含一个或多个自天然磷酸二酯修饰的核苷间连接,诸如例如一个或多个对核酸酶攻击更具抗性的修饰的核苷间连接。可以通过在血清中温育寡核苷酸或通过使用核酸酶抗性测定法(例如蛇毒磷酸二酯酶(SVPD))来测定核酸酶抗性,二者均是本领域公知的。能够增强寡核苷酸的核酸酶抗性的核苷间连接称作核酸酶抗性核苷间连接。在一些实施方案中,寡核苷酸或其连续核苷酸序列中至少50%的核苷间连接是修饰的,寡核苷酸或其连续核苷酸序列中诸如至少60%,诸如至少70%,诸如至少75%,诸如至少80%或诸如至少90%的核苷间连接是核酸酶抗性核苷间连接。在一些实施方案中,寡核苷酸或其连续核苷酸序列的所有核苷间连接是核酸酶抗性核苷间连接。会认识的是,在一些实施方案中,将本发明的寡核苷酸连接至非核苷酸官能团,诸如缀合物的核苷可以是磷酸二酯。

[0042] 供本发明的寡核苷酸中使用的一种优选的修饰的核苷间连接是硫代磷酸酯。

[0043] 由于核酸酶抗性,有益的药动学和容易制造,硫代磷酸酯核苷间连接是特别有用的。在一些实施方案中,寡核苷酸或其连续核苷酸序列中至少50%的核苷间连接是硫代磷酸酯,寡核苷酸或其连续核苷酸序列中诸如至少60%,诸如至少70%,诸如至少75%,诸如至少80%或诸如至少90%的核苷间连接是硫代磷酸酯。在一些实施方案中,寡核苷酸或其连续核苷酸序列的所有核苷间连接是硫代磷酸酯。在一些实施方案中,在二硫代磷酸酯连接以外,本发明的寡核苷酸包含硫代磷酸酯核苷间连接和至少一个磷酸二酯连接,诸如2,3或4个磷酸二酯连接二者。在缺口体寡核苷酸中,磷酸二酯连接在存在时适当地并非位于缺口区G中的连续DNA核苷之间。

[0044] 核酸酶抗性连接,诸如硫代磷酸酯连接在能够与靶核酸形成双链体时募集核酸酶的寡核苷酸区域,诸如缺口体的G区中是特别有用的。然而,硫代磷酸酯连接在非核酸酶募集区和/或亲和力增强区,诸如缺口体的F和F'区中也可能是有用的。在一些实施方案中,缺口体寡核苷酸可包含F或F'区,或F和F'区二者中的一个或多个磷酸二酯连接,其中G区中的所有核苷间连接可以是硫代磷酸酯。

[0045] 有利的是,寡核苷酸的连续核苷酸序列中的所有核苷间连接或寡核苷酸的所有核苷间连接是硫代磷酸酯连接。

[0046] 认识的是,如EP 2 742 135中公开的,反义寡核苷酸可包含其它核苷间连接(除了磷酸二酯和硫代磷酸酯以外),例如烷基磷酸酯/甲基磷酸酯核苷间连接,其依照EP 2 742 135可能例如在其它情况下是DNA硫代磷酸酯的缺口区中得到耐受。

[0047] 核碱基

[0048] 术语核碱基包括核苷和核苷酸中存在的嘌呤(例如腺嘌呤和鸟嘌呤)和嘧啶(例如尿嘧啶,胸腺嘧啶和胞嘧啶)模块,其在核酸杂交中形成氢键。在本发明的语境中,术语核碱基还涵盖与天然发生核碱基不同,但在核酸杂交期间有功能的修饰的核碱基。在此语境中,“核碱基”指天然发生核碱基,诸如腺嘌呤,鸟嘌呤,胞嘧啶,胸腺嘧啶,尿嘧啶,黄嘌呤和次黄嘌呤,以及非天然发生变体二者。此类变体例如描述于Hirao et al. (2012) *Accounts of Chemical Research*, vol. 45, page 2055和Bergstrom (2009) *Current Protocols in Nucleic Acid Chemistry*, Suppl. 37 1.4.1。

[0049] 在一些实施方案中,核碱基模块是通过将嘌呤或嘧啶改变为修饰的嘌呤或嘧啶,诸如取代的嘌呤或取代的嘧啶,诸如选自异胞嘧啶,假异胞嘧啶,5-甲基胞嘧啶,5-噻唑基-胞嘧啶,5-丙炔基-胞嘧啶,5-丙炔基-尿嘧啶,5-溴尿嘧啶,5-噻唑基-尿嘧啶,2-硫-尿嘧啶,2'-硫-胸腺嘧啶,肌苷,二氨基嘌呤,6-氨基嘌呤,2-氨基嘌呤,2,6-二氨基嘌呤和2-氯-6-氨基嘌呤的核碱基而修饰的。

[0050] 核碱基模块可以用每种相应核碱基的字母代码来表示,例如A,T,G,C或U,其中每种字母可任选包括功能等同的修饰的核碱基。例如,在例示的寡核苷酸中,核碱基模块选自A,T,G,C,和5-甲基胞嘧啶。任选地,对于LNA缺口体,可使用5-甲基胞嘧啶LNA核苷。

[0051] 修饰的寡核苷酸

[0052] 术语修饰的寡核苷酸描述包含一个或多个糖修饰的核苷和/或修饰的核苷间连接的寡核苷酸。术语“嵌合”寡核苷酸是在文献中已经用于描述具有修饰的核苷的寡核苷酸的术语。

[0053] 互补性

[0054] 术语“互补性”描述核苷/核苷酸的Watson-Crick碱基配对能力。Watson-Crick碱基对是鸟嘌呤(G)-胞嘧啶(C)和腺嘌呤(A)-胸腺嘧啶(T)/尿嘧啶(U)。会理解的是,寡核苷酸可包含具有修饰的核碱基的核苷,例如,常常使用5-甲基胞嘧啶代替胞嘧啶,而且为此术语互补性涵盖非修饰的和修饰的核碱基之间的Watson Crick碱基配对(见例如Hirao et al. (2012) *Accounts of Chemical Research*, vol. 45, page 2055和Bergstrom (2009) *Current Protocols in Nucleic Acid Chemistry*, Suppl. 37 1.4.1)。

[0055] 如本文中使用的术语“%互补”指核酸分子(例如寡核苷酸)的连续核苷酸序列中跨越连续核苷酸序列与参照序列(例如靶序列或序列基序)互补的核苷酸的比例(以百分比计)。如此通过对两条序列之间互补(形成Watson Crick碱基对)的对齐核碱基的数目计数(当靶序列5'-3'和寡核苷酸序列3'-5'比对时),将该数目除以寡核苷酸中的核苷酸的总数并乘以100来计算互补性的百分比。在此类比较中,不对齐(形成碱基对)的核碱基/核苷酸称作错配。连续核苷酸序列的%互补性的计算中不容许插入和删除。会理解的是,在确定互补性时,忽略核碱基的化学修饰,只要核碱基形成Watson Crick碱基配对的功能能力得到保留(例如,为了计算%同一性的目的,认为5'-甲基胞嘧啶与胞嘧啶相同)。

[0056] 术语“完全互补”指100%互补性。

[0057] 下面是与靶核酸完全互补的依照本发明的寡核苷酸的一个例子。

[0058] 下面是与靶核酸(SEQ ID NO:6)完全互补的寡核苷酸(SEQ ID NO:15)的一个例子。

[0059] 5' CAACATGCTCGGCCTGTTACACACACACACACAC 3' (SEQ ID NO:6)

[0060] 3' CGAGCCGGACAATGTGTGTG 5' (SEQ ID NO:15)

[0061] 同一性

[0062] 如本文中使用的术语“同一性”指核酸分子(例如寡核苷酸)中的连续核苷酸序列中跨越连续核苷酸序列与参照序列(例如序列基序)相同的核苷酸的比例(以百分比表述)。如此通过对两条序列(本发明的化合物的连续核苷酸序列中的和参照序列中的)之间相同(匹配)的对齐碱基计数,将该数目除以寡核苷酸中的核苷酸的总数并乘以100来计算同一性的百分比。因此,同一性的百分比 = (匹配x 100) / 比对区域(例如连续核苷酸序列)的长度。在连续核苷酸序列的同一性的百分比的计算中不容许插入和删除。会理解的是,在确定同一性时,忽略核碱基的化学修饰,只要核碱基形成Watson Crick碱基配对的功能能力得到保留(例如,为了计算%同一性的目的,认为5-甲基胞嘧啶与胞嘧啶相同)。

[0063] 杂交

[0064] 如本文中使用的术语“杂交”要理解为两条核酸链(例如寡核苷酸和靶核酸)在相对链上的碱基对之间形成氢键,由此形成双链体。两条核酸链之间的结合的亲和力是杂交的强度。它常常以解链温度(T_m)来描述,定义为一半的寡核苷酸与靶核酸形成双链体时的温度。在生理条件下, T_m 并不与亲和力严格成比例(Mergny and Lacroix, 2003, *Oligonucleotides*, 13:515-537)。标准状态的Gibbs自由能 ΔG° 是结合亲和力的一种更加精确的表示且通过 $\Delta G^\circ = -RT \ln(K_d)$ 与反应的解离常数(K_d)相关,其中R是气体常数且T是绝对温度。因此,寡核苷酸和靶核酸之间的反应的 ΔG° 很低反映寡核苷酸和靶核酸之间的杂交强。 ΔG° 是与其中水浓度为1M, pH为7, 且温度为37°C的反应有关的能量。寡核苷酸对靶核酸的杂交是自发反应,而对于自发反应, ΔG° 小于零。 ΔG° 可以通过实验来测量,例如通过使用如Hansen et al., 1965, *Chem. Comm.* 36-38和Holdgate et al., 2005, *Drug Discov Today* 中描述的等温滴定量热法(ITC)方法。技术人员会知道,商用设备可用于 ΔG° 测量。 ΔG° 还可以使用适宜推导的由Sugimoto et al., 1995, *Biochemistry*, 34:11211-11216和McTigue et al., 2004, *Biochemistry*, 43:5388-5405描述的热力学参数通过使用如SantaLucia, 1998, *Proc Natl Acad Sci USA*, 95:1460-1465中描述的最近邻居模型在数值上估算。为了具有通过杂交来调控它的预定核酸靶的可能性,本发明的寡核苷酸以对于长度为10-30个核苷酸的寡核苷酸低于-10kcal的估算 ΔG° 值与靶核酸杂交。在一些实施方案中,通过标准状态Gibbs自由能 ΔG° 来测量杂交的程度或强度。寡核苷酸可以以对于长度为8-30个核苷酸的寡核苷酸低于-10kcal, 诸如低于-15kcal, 诸如低于-20kcal和诸如低于-25kcal的范围的估算 ΔG° 值与靶核酸杂交。在一些实施方案中,寡核苷酸以-10至-60kcal, 诸如-12至-40, 诸如-15至-30kcal或-16至-27kcal, 诸如-18至-25kcal的估算 ΔG° 值与靶核酸杂交。

[0065] 靶核酸

[0066] 依照本发明,靶核酸是编码哺乳动物FNDC3B且可以例如是基因, RNA, mRNA, 和前mRNA, 成熟mRNA或cDNA序列的核酸。靶因此可以称作FNDC3B靶核酸。本发明的寡核苷酸可以例如靶向哺乳动物FNDC3B的外显子区, 或者可以例如靶向FNDC3B前mRNA中的任何内含子区(见例如表1)。表1:剪接变体之一的人FNDC3B外显子和内含子

	人FNDC3B前mRNA (SEQ ID NO: 1) 中的外显子区			人FNDC3B前mRNA (SEQ ID NO: 1) 中的内含子区		
	ID	开始	结束	ID	开始	结束
[0067]	e1	1	144	i1	145	72824
	e2	72825	72963	i2	72964	93844
	e3	93844	93919	i3	93920	147084
	e4	147085	147671			

[0068] 合适地,靶核酸编码FNDC3B蛋白质,特别是哺乳动物FNDC3B,诸如人FNDC3B(见例如表2和3),其提供人,猴,小鼠和大鼠FNDC3B的mRNA和前mRNA序列。

[0069] 在一些实施方案中,靶核酸选自自由SEQ ID NO:1,2,3,4,5,6,7和8或其天然发生变体(例如编码哺乳动物FNDC3B蛋白质的序列)组成的组。

[0070] 在一些实施方案中,靶核酸可以是编码哺乳动物FNDC3B蛋白质,诸如人FNDC3B的RNA或DNA,诸如信使RNA,诸如成熟mRNA或前mRNA,例如人前mRNA序列,诸如作为SEQ ID NO:1公开的或如SEQ ID NO:2,SEQ ID NO:3,SEQ ID NO:4,SEQ ID NO:5,SEQ ID NO:6和SEQ ID NO:7或其天然发生变体(例如编码哺乳动物FNDC3B蛋白质的序列)中公开的人成熟mRNA。

[0071] 如果在研究或诊断中采用本发明的寡核苷酸的话,靶核酸可以是自DNA或RNA衍生的cDNA或合成核酸。

[0072] 对于体内或体外应用,本发明的寡核苷酸典型地能够抑制表达FNDC3B靶核酸的细胞中FNDC3B靶核酸的表达。本发明的反义寡核苷酸的核碱基的连续序列典型地与FNDC3B靶核酸互补,如跨越反义寡核苷酸的长度测量的,任选地,一处或两处错配除外,且任选地排除可将寡核苷酸连接至任选的官能团,诸如缀合物的基于核苷酸的接头区,或其它非互补末端核苷酸(例如D'或D''区)。在一些实施方案中,靶核酸可以是RNA或DNA,诸如信使RNA,诸如成熟mRNA或前mRNA。在一些实施方案中,靶核酸是编码哺乳动物FNDC3B蛋白质,诸如人FNDC3B的RNA或DNA,例如人FNDC3B前mRNA序列,诸如作为SEQ ID NO:1公开的。关于示例性靶核酸的进一步信息在表2和3中提供。

[0073] 表2:跨越物种的关于FNDC3B的基因组和装配信息

	物种	染色体	链	基因组坐标		装配	Ensemble ID
				开始	结束		
[0074]	人	3	fwd	172039628	172401665	GRCh38.p2 release 107	ENSG00000075420
	小鼠	3	rev	27416162	27711307	GRCm38.p5	ENSMUSG00000039286
	食蟹猴	2	fwd	76257179	76622494	Macaca_fascicularis_5.0 release 100 (GCF_000364345)	
	大鼠	2	rev	113112902	113345577	Rnor_6.0 release 105	ENSRNOG00000024089

[0075] Fwd=正向链。基因组坐标提供前mRNA序列(基因组序列)。NCBI参照提供mRNA序列(cDNA序列)。

[0076] 表3:跨越物种的FNDC3B的序列详情

	物种	RNA类型	长度(nt)	SEQ ID NO
[0077]	人	前mRNA	362038	1
	人	mRNA	7904	2
	人	mRNA	408	3
[0078]	人	mRNA	678	4
	人	mRNA	3684	5
	人	mRNA	5083	6
	人	mRNA	946	7
	食蟹猴	前mRNA	365316	8*

[0079] 注意:SEQ ID NO:8包含多个NNNNs的区域,其中测序未能精确精炼序列,而且因此包括简并序列。为了避免疑问,本发明的化合物与实际的食蟹猴靶序列互补且因此不是简并化合物。

[0080] 靶序列

[0081] 如本文中使用的术语“靶序列”指靶核酸中存在的包含与本发明的反义寡核苷酸互补的核碱基序列的核苷酸的序列。在一些实施方案中,靶序列由靶核酸上具有与本发明的反义寡核苷酸的连续核苷酸序列互补的核碱基序列的区域组成。靶核酸的这个区域可以可互换地称作靶核苷酸序列,靶序列或靶区。在一些实施方案中,靶序列比单一寡核苷酸的连续互补序列要长,而且可以例如代表靶核酸中可以受到本发明的数个寡核苷酸靶向的优选区域。

[0082] 本发明的反义寡核苷酸包含与靶核酸,诸如本文中描述的靶序列互补的连续核苷酸序列。

[0083] 寡核苷酸与之互补的靶序列一般包含至少10个核苷酸的连续核碱基序列。连续核苷酸序列介于10至50个核苷酸,诸如12至30个,诸如14至20个,诸如15至18个连续核苷酸之间。

[0084] 在本发明的一个实施方案中,靶序列是SEQ ID NO:9。

[0085] 在本发明的另一个实施方案中,靶序列是SEQ ID NO:10。

[0086] 在本发明的另一个实施方案中,靶序列是SEQ ID NO:19。

[0087] 在本发明的另一个实施方案中,靶序列是SEQ ID NO:20。

[0088] 重复靶区

[0089] 靶区或靶序列可以是对于靶核酸而言独特的(仅存在一次)。

[0090] 在本发明的一些方面,靶区在靶核酸的跨度上重复至少两次。本发明涵盖的重复意味着有在靶核酸中在不同位置处发生的至少两段相同的长度为至少10个,诸如至少11个,或至少12个核苷酸的核苷酸序列(靶区)。每个重复靶区在靶核酸的连续序列上通过至少一个核碱基与相同区域分开且位于靶核酸内不同且不交叠的位置。

[0091] 靶细胞

[0092] 如本文中使用的术语“靶细胞”指表达靶核酸的细胞。在一些实施方案中,靶细胞

可以在体内或在体外。在一些实施方案中,靶细胞是哺乳动物细胞,诸如啮齿动物细胞,诸如小鼠细胞或大鼠细胞,或灵长动物细胞,诸如猴细胞或人细胞。

[0093] 在优选的实施方案中,靶细胞表达FNDC3B mRNA,诸如FNDC3B前mRNA或FNDC3B成熟mRNA。反义寡核苷酸靶向忽略FNDC3B mRNA的polyA尾。

[0094] 天然发生变体

[0095] 术语“天然发生变体”指FNDC3B基因或转录物的变体,其与靶核酸源自相同的基因座且是与靶核酸来自相同染色体位置和方向的定向转录物,但是可以例如由于引起编码相同氨基酸的密码子的多重性的遗传密码的简并性,或由于前mRNA的可变剪接,或多态性,诸如单核苷酸多态性,和等位变体的存在而不同。基于足够的与寡核苷酸互补的序列的存在,本发明的寡核苷酸可因此靶向靶核酸及其天然发生变体。

[0096] 在一些实施方案中,天然发生变体与哺乳动物FNDC3B靶核酸,诸如选自SEQ ID NO:1,2,3,4,5,6,7或8组成的组的靶核酸具有至少95%,诸如至少98%或至少99%同源性。

[0097] 对表达的调控

[0098] 如本文中使用的术语“对表达的调控”要理解为与施用寡核苷酸之前FNDC3B的量相比寡核苷酸改变FNDC3B的量的能力的总称。或者,对表达的调控可以通过参照对照实验来确定。一般理解的是,对照是用盐水组合物处理的靶细胞或用非靶向寡核苷酸(模拟)处理的靶细胞。

[0099] 依照本发明的调控会理解为反义寡核苷酸抑制,下调,减轻,遏制,去除,停止,阻断,防止,减少,降低,避免或终止FNDC3B的表达的能力,例如通过mRNA的降解或转录的阻断。

[0100] 高亲和力修饰的核苷

[0101] 高亲和力修饰的核苷是修饰的核苷酸,其在掺入寡核苷酸时增强寡核苷酸对它的互补靶的亲合力,例如如通过解链温度(T_m)测量的。本发明的高亲和力修饰的核苷优选导致解链温度升高+0.5至+12°C,更优选+1.5至+10°C和最优选+3至+8°C每个修饰的核苷。众多高亲和力修饰的核苷是本领域已知的且包括例如许多2'取代的核苷以及锁定的核酸(LNA)(见例如Freier and Altmann, Nucl. Acid Res., 1997, 25, 4429-4443和Uhlmann, Curr. Opinion in Drug Development, 2000, 3 (2), 293-213)。

[0102] 糖修饰

[0103] 本发明的寡聚物可包含一个或多个具有修饰的糖模块的核苷,即与在DNA和RNA中找到的核糖糖模块相比对糖模块的修饰。

[0104] 已经生成了众多具有对核糖糖模块的修饰的核苷,主要目的是改进寡核苷酸的某些特性,诸如亲和力和/或核酸酶抗性。

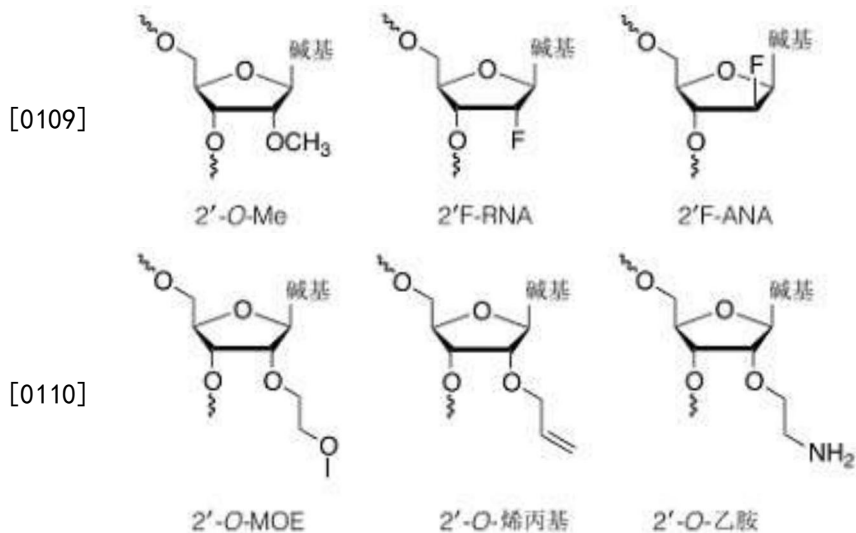
[0105] 此类修饰包括那些其中核糖环结构进行修饰的,例如通过用己糖环(HNA),或典型地具有核糖环上的C2和C4碳之间的双基桥的双环环(LNA),或典型地缺乏C2和C3碳之间的键的未连接核糖环(例如UNA)替换。其它糖修饰的核苷包括例如双环己糖核酸(WO2011/017521)或三环核酸(WO2013/154798)。修饰的核苷还包括其中糖模块用非糖模块替换的核苷,例如在肽核酸(PNA),或吗啉代核酸的情况中。

[0106] 2'修饰的核苷

[0107] 2'糖修饰的核苷是在2'位置处具有除了H或-OH以外的取代基(2'取代的核苷)或

包含能够在2' 碳和核糖环中的第二个碳之间形成桥的2' 连接双基的核苷,诸如LNA (2' -4' 双基桥接) 核苷。

[0108] 确实,已经将很多焦点花在开发2' 取代的核苷上,而且已经发现众多2' 取代的核苷在掺入寡核苷酸时具有有益特性。例如,2' 修饰的糖可以对寡核苷酸提供增强的结合亲和力和/或升高的核酸酶抗性。2' 取代的修饰的核苷的例子是2' -O-烷基-RNA,2' -O-甲基-RNA,2' -烷氧基-RNA,2' -O-甲氧基乙基-RNA (MOE),2' -氨基-DNA,2' -氟-RNA,和2' -F-ANA核苷。更多例子请见例如Freier and Altmann,Nucl.Acids Res.,1997,25,4429-4443;Uhlmann,Curr.Opinion in Drug Development,2000,3 (2),293-213;和Deleavey and Damha,Chemistry and Biology,2012,19,937。下面是一些2' 取代的修饰的核苷的例示。



[0111] 关于本发明,2' 取代的糖修饰的核苷不包括2' 桥接核苷,像LNA。

[0112] 锁定的核酸核苷 (LNA)

[0113] “LNA核苷”是2' -修饰的核苷,其包含连接所述核苷的核糖糖环的C2' 和C4' 的双基(也称作“2' -4' 桥”),其约束或锁定核糖环的构象。这些核苷在文献中也称作桥接核酸或双环核酸(BNA)。当LNA掺入互补RNA或DNA分子的寡核苷酸时,核糖的构象的锁定与增强的杂交亲和力有关(双链体稳定化)。这可以通过测量寡核苷酸/互补双链体的解链温度来例行确定。

[0114] 非限制性的,例示性的LNA核苷公开于WO 99/014226,WO 00/66604,WO 98/039352,WO 2004/046160,WO 00/047599,WO 2007/134181,WO2010/077578,WO 2010/036698,WO 2007/090071,WO 2009/006478,WO2011/156202,WO 2008/154401,WO 2009/067647,WO 2008/150729,Morita et al.,Bioorganic&Med.Chem.Lett.12,73-76,Seth et al.,J.Org.Chem.2010,Vol.75 (5),pp.1569-81和Mitsuoka et al.,Nucleic Acids Research,2009,37 (4),1225-1238。

[0115] 2' -4' 桥包含2至4个桥接原子且特别是式-X-Y-,X连接至C4' 且Y连接至C2' ,

[0116] 其中

[0117] X是氧,硫,-CR^aR^b-, -C(R^a)=C(R^b)-, -C(=CR^aR^b)-, -C(R^a)=N-, -Si(R^a)₂-, -SO₂-, -NR^a-, -O-NR^a-, -NR^a-O-, -C(=J)-, Se, -O-NR^a-, -NR^a-CR^aR^b-, -N(R^a)-O-或-O-CR^aR^b-;

[0118] Y是氧,硫,-(CR^aR^b)_n-, -CR^aR^b-O-CR^aR^b-, -C(R^a)=C(R^b)-, -C(R^a)=N-, -Si(R^a)₂-, -

SO_2- , $-\text{NR}^a-$, $-\text{C}(=\text{J})-$, Se , $-\text{O}-\text{NR}^a-$, $-\text{NR}^a-\text{CR}^a\text{R}^b-$, $-\text{N}(\text{R}^a)-\text{O}-$ 或 $-\text{O}-\text{CR}^a\text{R}^b-$;

[0119] 前提是 $-\text{X}-\text{Y}-$ 不是 $-\text{O}-\text{O}-$, $-\text{Si}(\text{R}^a)_2-\text{Si}(\text{R}^a)_2-$, $-\text{SO}_2-\text{SO}_2-$, $-\text{C}(\text{R}^a)=\text{C}(\text{R}^b)-\text{C}(\text{R}^a)=\text{C}(\text{R}^b)$, $-\text{C}(\text{R}^a)=\text{N}-\text{C}(\text{R}^a)=\text{N}-$, $-\text{C}(\text{R}^a)=\text{N}-\text{C}(\text{R}^a)=\text{C}(\text{R}^b)-$, $-\text{C}(\text{R}^a)=\text{C}(\text{R}^b)-\text{C}(\text{R}^a)=\text{N}-$ 或 $-\text{Se}-\text{Se}-$;

[0120] J是氧, 硫, $=\text{CH}_2$ 或 $=\text{N}(\text{R}^a)$;

[0121] R^a 和 R^b 独立选自氢, 卤素, 羟基, 氰基, 硫羟基, 烷基, 取代的烷基, 烯基, 取代的烯基, 炔基, 取代的炔基, 烷氧基, 取代的烷氧基, 烷氧基烷基, 烯基氧基, 羧基, 烷氧基羰基, 烷基羰基, 甲酰基, 芳基, 杂环基, 氨基, 烷基氨基, 氨甲酰基, 烷基氨基羰基, 氨基烷基氨基羰基, 烷基氨基烷基氨基羰基, 烷基羰基氨基, 脲基, 烷酰基氧基, 磺酰基, 烷基磺酰基氧基, 硝基, 叠氮基, 硫羟基硫醚烷基硫烷基, 芳基氧基羰基, 芳基氧基, 芳基羰基, 杂芳基, 杂芳基氧基羰基, 杂芳基氧基, 杂芳基羰基, $-\text{OC}(=\text{X}^a)\text{R}^c$, $-\text{OC}(=\text{X}^a)\text{NR}^c\text{R}^d$ 和 $-\text{NR}^c\text{C}(=\text{X}^a)\text{NR}^c\text{R}^d$;

[0122] 或两个成双的 R^a 和 R^b 一些形成任选取代的亚甲基;

[0123] 或两个成双的 R^a 和 R^b 与它们所附着的碳原子一起形成环烷基或卤代环烷基, 仅具有 $-\text{X}-\text{Y}-$ 的一个碳原子;

[0124] 其中取代的烷基, 取代的烯基, 取代的炔基, 取代的烷氧基和取代的亚甲基是被1至3个独立选自卤素, 羟基, 烷基, 烯基, 炔基, 烷氧基, 烷氧基烷基, 烯基氧基, 羧基, 烷氧基羰基, 烷基羰基, 甲酰基, 杂环基, 芳基和杂芳基的取代基取代的烷基, 烯基, 炔基和亚甲基;

[0125] X^a 是氧, 硫或 $-\text{NR}^c$;

[0126] R^c , R^d 和 R^e 独立选自氢和烷基; 且

[0127] N是1, 2或3。

[0128] 在本发明的又一个特定实施方案中, X是氧, 硫, $-\text{NR}^a-$, $-\text{CR}^a\text{R}^b-$ 或 $-\text{C}(=\text{CR}^a\text{R}^b)-$, 特别是氧, 硫, $-\text{NH}-$, $-\text{CH}_2-$ 或 $-\text{C}(=\text{CH}_2)-$, 更加特别是氧。

[0129] 在本发明的另一个特定实施方案中, Y是 $-\text{CR}^a\text{R}^b-$, $-\text{CR}^a\text{R}^b-\text{CR}^a\text{R}^b-$ 或 $-\text{CR}^a\text{R}^b-\text{CR}^a\text{R}^b-\text{CR}^a\text{R}^b-$, 特别是 $-\text{CH}_2-\text{CHCH}_3-$, $-\text{CHCH}_3-\text{CH}_2-$, $-\text{CH}_2-\text{CH}_2-$ 或 $-\text{CH}_2-\text{CH}_2-\text{CH}_2-$ 。

[0130] 在本发明的一个特定实施方案中, $-\text{X}-\text{Y}-$ 是 $-\text{O}-(\text{CR}^a\text{R}^b)_n-$, $-\text{S}-\text{CR}^a\text{R}^b-$, $-\text{N}(\text{R}^a)\text{CR}^a\text{R}^b-$, $-\text{CR}^a\text{R}^b-\text{CR}^a\text{R}^b-$, $-\text{O}-\text{CR}^a\text{R}^b-\text{O}-\text{CR}^a\text{R}^b-$, $-\text{CR}^a\text{R}^b-\text{O}-\text{CR}^a\text{R}^b-$, $-\text{C}(=\text{CR}^a\text{R}^b)-\text{CR}^a\text{R}^b-$, $-\text{N}(\text{R}^a)\text{CR}^a\text{R}^b-$, $-\text{O}-\text{N}(\text{R}^a)-\text{CR}^a\text{R}^b-$ 或 $-\text{N}(\text{R}^a)-\text{O}-\text{CR}^a\text{R}^b-$ 。

[0131] 在本发明的一个特定实施方案中, R^a 和 R^b 独立选自氢, 卤素, 羟基, 烷基和烷氧基烷基组成的组, 特别是氢, 卤素, 烷基和烷氧基烷基。

[0132] 在本发明的另一个实施方案中, R^a 和 R^b 独立选自氢, 氟, 羟基, 甲基和 $-\text{CH}_2-\text{O}-\text{CH}_3$ 组成的组, 特别是氢, 氟, 甲基和 $-\text{CH}_2-\text{O}-\text{CH}_3$ 。

[0133] 有利地, $-\text{X}-\text{Y}-$ 的 R^a 和 R^b 之一如上文定义的且另一同时都是氢。

[0134] 在本发明的又一个特定实施方案中, R^a 是氢或烷基, 特别是氢或甲基。

[0135] 在本发明的另一个特定实施方案中, R^b 是氢或烷基, 特别是氢或甲基。

[0136] 在本发明的一个特定实施方案中, R^a 和 R^b 之一或二者是氢。

[0137] 在本发明的一个特定实施方案中, R^a 和 R^b 仅之一是氢。

[0138] 在本发明的一个特定实施方案中, R^a 和 R^b 之一是甲基且另一是氢。

[0139] 在本发明的一个特定实施方案中, R^a 和 R^b 同时均是甲基。

[0140] 在本发明的一个特定实施方案中, $-\text{X}-\text{Y}-$ 是 $-\text{O}-\text{CH}_2-$, $-\text{S}-\text{CH}_2-$, $-\text{S}-\text{CH}(\text{CH}_3)-$, $-\text{NH}-$

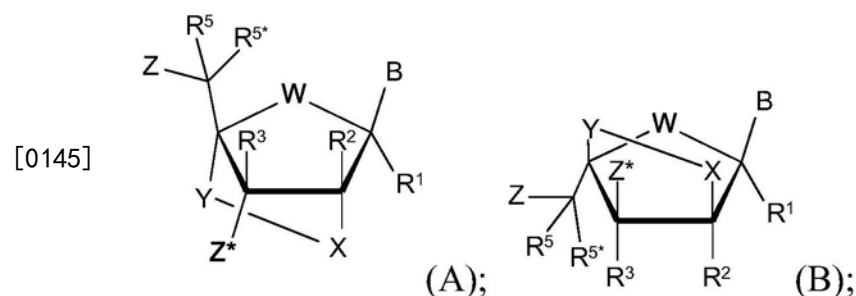
CH_2- , $-\text{O}-\text{CH}_2\text{CH}_2-$, $-\text{O}-\text{CH}(\text{CH}_2-\text{O}-\text{CH}_3)-$, $-\text{O}-\text{CH}(\text{CH}_2\text{CH}_3)-$, $-\text{O}-\text{CH}(\text{CH}_3)-$, $-\text{O}-\text{CH}_2-\text{O}-\text{CH}_2-$, $-\text{O}-\text{CH}_2-\text{O}-\text{CH}_2-$, $-\text{CH}_2-\text{O}-\text{CH}_2-$, $-\text{C}(=\text{CH}_2)\text{CH}_2-$, $-\text{C}(=\text{CH}_2)\text{CH}(\text{CH}_3)-$, $-\text{N}(\text{OCH}_3)\text{CH}_2-$ 或 $-\text{N}(\text{CH}_3)\text{CH}_2-$ 。

[0141] 在本发明的一个特定实施方案中, $-\text{X}-\text{Y}-$ 是 $-\text{O}-\text{CR}^a\text{R}^b-$, 其中 R^a 和 R^b 独立选自氢, 烷基和烷氧基烷基组成的组, 特别是氢, 甲基和 $-\text{CH}_2-\text{O}-\text{CH}_3$ 。

[0142] 在一个特定实施方案中, $-\text{X}-\text{Y}-$ 是 $-\text{O}-\text{CH}_2-$ 或 $-\text{O}-\text{CH}(\text{CH}_3)-$, 特别是 $-\text{O}-\text{CH}_2-$ 。

[0143] 2'-4' 桥可以位于核糖环的平面下方 (β -D-构型) 或环的平面上方 (α -L-构型), 分别如式 (A) 和式 (B) 中图示的。

[0144] 依照本发明的 LNA 核苷特别是式 (A) 或 (B) 的,



[0146] 其中

[0147] W 是氧, 硫, $-\text{N}(\text{R}^a)-$ 或 $-\text{CR}^a\text{R}^b-$, 特别是氧;

[0148] B 是核碱基或修饰的核碱基;

[0149] Z 是与相邻核苷或 5' 末端基团的核苷间连接;

[0150] Z* 是与相邻核苷或 3' 末端基团的核苷间连接;

[0151] $\text{R}^1, \text{R}^2, \text{R}^3, \text{R}^5$ 和 R^{5*} 独立选自氢, 卤素, 烷基, 卤代烷基, 烯基, 炔基, 羟基, 烷氧基, 烷氧基烷基, 叠氮基, 烯基氧基, 羧基, 烷氧基羰基, 烷基羰基, 甲酰基和芳基; 且

[0152] X, Y, R^a 和 R^b 如上文定义的。

[0153] 在一个特定实施方案中, 在 $-\text{X}-\text{Y}-$ 的定义中, R^a 是氢或烷基, 特别是氢或甲基。在另一个特定实施方案中, 在 $-\text{X}-\text{Y}-$ 的定义中, R^b 是氢或烷基, 特别是氢或甲基。在又一个特定实施方案中, 在 $-\text{X}-\text{Y}-$ 的定义中, R^a 和 R^b 之一或二者是氢。在一个特定实施方案中, 在 $-\text{X}-\text{Y}-$ 的定义中, R^a 和 R^b 仅之一是氢。在一个特定实施方案中, 在 $-\text{X}-\text{Y}-$ 的定义中, R^a 和 R^b 之一是甲基且另一是氢。在一个特定实施方案中, 在 $-\text{X}-\text{Y}-$ 的定义中, R^a 和 R^b 同时均是甲基。

[0154] 在又一个特定实施方案中, 在 X 的定义中, R^a 是氢或烷基, 特别是氢或甲基。在另一个特定实施方案中, 在 X 的定义中, R^b 是氢或烷基, 特别是氢或甲基。在一个特定实施方案中, 在 X 的定义中, R^a 和 R^b 之一或二者是氢。在一个特定实施方案中, 在 X 的定义中, R^a 和 R^b 仅之一是氢。在一个特定实施方案中, 在 X 的定义中, R^a 和 R^b 之一是甲基且另一是氢。在一个特定实施方案中, 在 X 的定义中, R^a 和 R^b 同时均是甲基。

[0155] 在又一个特定实施方案中, 在 Y 的定义中, R^a 是氢或烷基, 特别是氢或甲基。在另一个特定实施方案中, 在 Y 的定义中, R^b 是氢或烷基, 特别是氢或甲基。在一个特定实施方案中, 在 Y 的定义中, R^a 和 R^b 之一或二者是氢。在一个特定实施方案中, 在 Y 的定义中, R^a 和 R^b 仅之一是氢。在一个特定实施方案中, 在 Y 的定义中, R^a 和 R^b 之一是甲基且另一是氢。在一个特定实施方案中, 在 Y 的定义中, R^a 和 R^b 同时均是甲基。

[0156] 在本发明的一个特定实施方案中, $\text{R}^1, \text{R}^2, \text{R}^3, \text{R}^5$ 和 R^{5*} 独立选自氢和烷基, 特别是氢

和甲基。

[0157] 在本发明的又一个特别有利的实施方案中, R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。

[0158] 在本发明的另一个特定实施方案中, R^1, R^2, R^3 同时均是氢, R^5 和 R^{5*} 之一是氢且另一如上文定义的,特别是烷基,更加特别是甲基。

[0159] 在本发明的一个特定实施方案中, R^5 和 R^{5*} 独立选自氢,卤素,烷基,烷氧基烷基和叠氮基,特别是氢,氟,甲基,甲氧基乙基和叠氮基。在本发明的特别有利的实施方案中, R^5 和 R^{5*} 之一是氢且另一是烷基,特别是甲基,卤素,特别是氟,烷氧基烷基,特别是甲氧基乙基或叠氮基;或 R^5 和 R^{5*} 同时均是氢或卤素,特别是同时均是氢或氟。在此类特定实施方案中,W可以有用地是氧,且-X-Y-有利地是-O-CH₂-。

[0160] 在本发明的一个特定实施方案中,-X-Y-是-O-CH₂-,W是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。此类LNA核苷公开于WO 99/014226,WO 00/66604,WO98/039352和WO 2004/046160,据此通过援引收录它们全部,而且包括本领域通常称作 β -D-氧基LNA和 α -L-氧基LNA核苷的。

[0161] 在本发明的另一个特定实施方案中,-X-Y-是-S-CH₂-,W是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。此类硫LNA核苷公开于WO 99/014226和WO2004/046160,据此通过援引收录它。

[0162] 在本发明的另一个特定实施方案中,-X-Y-是-NH-CH₂-,W是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。此类氨基LNA核苷公开于WO 99/014226和WO2004/046160,据此通过援引收录它们。

[0163] 在本发明的另一个特定实施方案中,-X-Y-是-O-CH₂CH₂-或-OCH₂CH₂CH₂-,W是氧,且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。此类LNA核苷公开于WO 00/047599和Morita et al., Bioorganic&Med.Chem.Lett.12,73-76,通过援引收录它们,而且包括本领域通常称作2'-O-4' C-亚乙基桥接核酸(ENA)的。

[0164] 在本发明的另一个特定实施方案中,-X-Y-是-O-CH₂-,W是氧, R^1, R^2, R^3 同时均是氢, R^5 和 R^{5*} 之一是氢且另一不是氢,诸如烷基,例如甲基。此类5'取代的LNA核苷公开于WO 2007/134181,据此通过援引收录它。

[0165] 在本发明的另一个特定实施方案中,-X-Y-是-O-CR^aR^b-,其中R^a和R^b之一或二者不是氢,特别是烷基,诸如甲基,W是氧, R^1, R^2, R^3 同时均是氢, R^5 和 R^{5*} 之一是氢且另一不是氢,特别是烷基,例如甲基。此类双修饰的LNA核苷公开于WO 2010/077578,据此通过援引收录它。

[0166] 在本发明的另一个特定实施方案中,-X-Y-是-O-CHR^a-,W是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。此类6'-取代的LNA核苷公开于WO 2010/036698和WO 2007/090071,据此通过援引收录它们二者。在此类6'-取代的LNA核苷中,R^a特别是C₁-C₆烷基,诸如甲基。

[0167] 在本发明的另一个特定实施方案中,-X-Y-是-O-CH(CH₂-O-CH₃)- (“2' O-甲氧基乙基双环核酸”,Seth et al.,J.Org.Chem.2010,Vol.75(5),pp.1569-81)。

[0168] 在本发明的另一个特定实施方案中,-X-Y-是-O-CH(CH₂CH₃)- (“2' O-乙基双环核酸”,Seth et al.,J.Org.Chem.2010,Vol.75(5),pp.1569-81)。

[0169] 在本发明的另一个特定实施方案中,-X-Y-是-O-CH(CH₂-O-CH₃)-,W是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。此类LNA核苷在本领域也称作环状MOE(cMOE)且公开于WO 2007/090071。

[0170] 在本发明的另一个特定实施方案中, $-X-Y-$ 是 $-O-CH(CH_3)-$ 。

[0171] 在本发明的另一个特定实施方案中, $-X-Y-$ 是 $-O-CH_2-O-CH_2-$ (Seth et al., J.Org.Chem.2010, 同上)。

[0172] 在本发明的另一个特定实施方案中, $-X-Y-$ 是 $-O-CH(CH_3)-$, W 是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。此类 6'-甲基 LNA 核苷在本领域也称作 cET 核苷, 而且可以是 (S)-cET 或 (R)-cET 非对映异构体, 如公开于 WO 2007/090071 (β -D) 和 WO 2010/036698 (α -L), 据此通过援引收录它们二者。

[0173] 在本发明的另一个特定实施方案中, $-X-Y-$ 是 $-O-CR^aR^b-$, 其中 R^a 和 R^b 均不是氢, W 是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。在一个特定实施方案中, R^a 和 R^b 同时均是烷基, 特别是同时均是甲基。此类 6'-二取代的 LNA 核苷公开于 WO 2009/006478, 据此通过援引收录它。

[0174] 在本发明的另一个特定实施方案中, $-X-Y-$ 是 $-S-CHR^a-$, W 是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。此类 6'-取代的硫 LNA 核苷公开于 WO 2011/156202, 据此通过援引收录它。在此类 6'-取代的硫 LNA 的一个特定实施方案中, R^a 是烷基, 特别是甲基。

[0175] 在本发明的一个特定实施方案中, $-X-Y-$ 是 $-C(=CH_2)C(R^aR^b)-$, $-C(=CHF)C(R^aR^b)-$ 或 $-C(=CF_2)C(R^aR^b)-$, W 是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。 R^a 和 R^b 有利地独立选自氢, 卤素, 烷基和烷氧基烷基, 特别是氢, 甲基, 氟和甲氧基甲基。 R^a 和 R^b 特别是同时均是氢或甲基或 R^a 和 R^b 之一是氢且另一是甲基。此类乙烯基碳 LNA 核苷公开于 WO 2008/154401 和 WO 2009/067647, 据此通过援引收录它们二者。

[0176] 在本发明的一个特定实施方案中, $-X-Y-$ 是 $-N(OR^a)-CH_2-$, W 是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。在一个特定实施方案中, R^a 是烷基, 诸如甲基。此类 LNA 核苷也称作 N 取代的 LNA 且公开于 WO 2008/150729, 据此通过援引收录它。

[0177] 在本发明的一个特定实施方案中, $-X-Y-$ 是 $-O-N(R^a)-$, $-N(R^a)-O-$, $-NR^a-CR^aR^b-$, CR^aR^b- 或 $-NR^a-CR^aR^b-$, W 是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。 R^a 和 R^b 有利地独立选自氢, 卤素, 烷基和烷氧基烷基, 特别是氢, 甲基, 氟和甲氧基甲基。在一个特定实施方案中, R^a 是烷基, 诸如甲基, R^b 是氢或甲基, 特别是氢 (Seth et al., J.Org.Chem.2010, 同上)。

[0178] 在本发明的一个特定实施方案中, $-X-Y-$ 是 $-O-N(CH_3)-$ (Seth et al., J.Org.Chem.2010, 同上)。

[0179] 在本发明的一个特定实施方案中, R^5 和 R^{5*} 同时均是氢。在本发明的另一个特定实施方案中, R^5 和 R^{5*} 之一是氢且另一是烷基, 诸如甲基。在此类实施方案中, R^1, R^2 和 R^3 可以特别是氢且 $-X-Y-$ 可以特别是 $-O-CH_2-$ 或 $-O-CHC(R^a)_3-$, 诸如 $-O-CH(CH_3)-$ 。

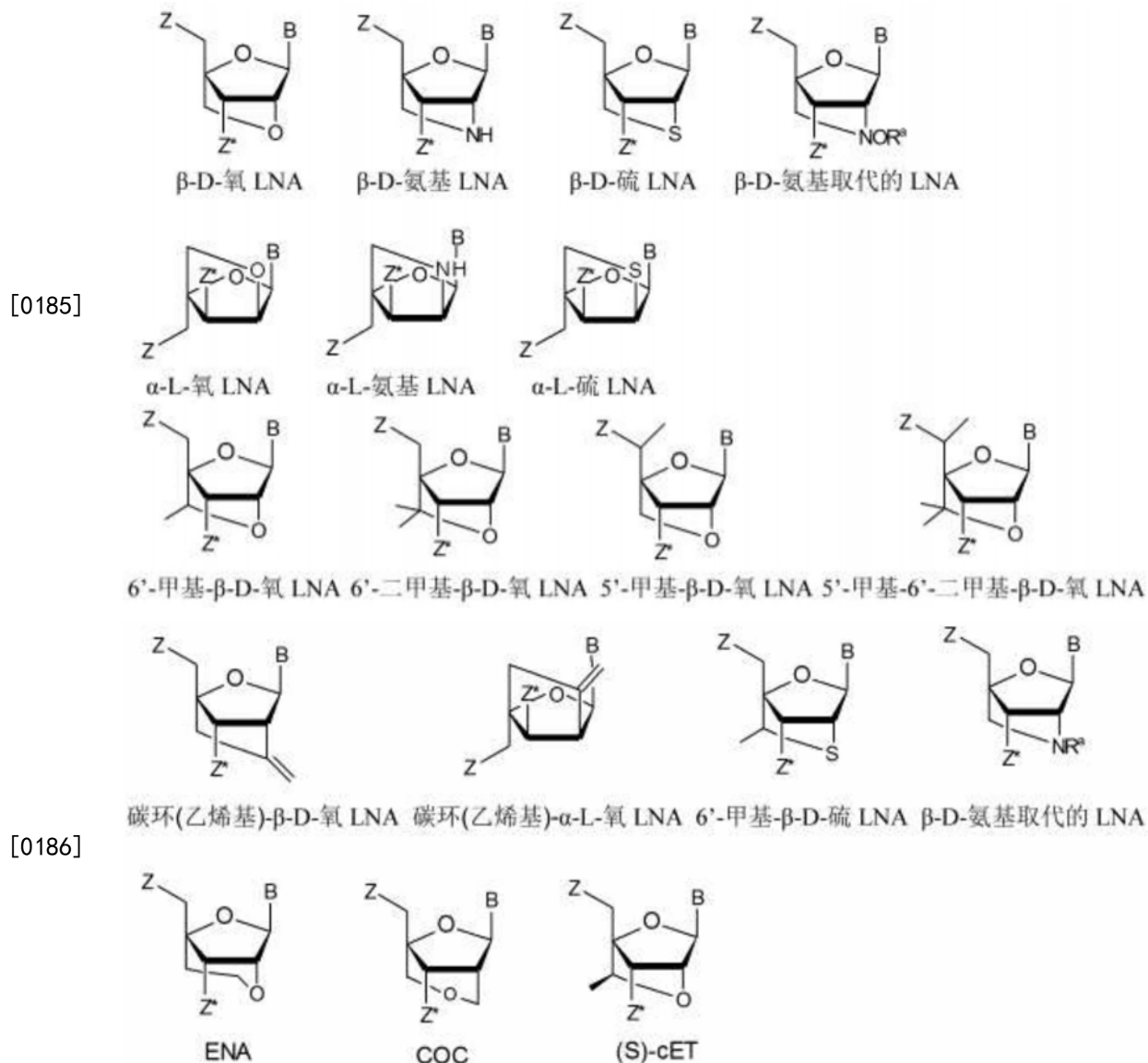
[0180] 在本发明的一个特定实施方案中, $-X-Y-$ 是 $-CR^aR^b-O-CR^aR^b-$, 诸如 $-CH_2-O-CH_2-$, W 是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。在此类特定实施方案中, R^a 可以特别是烷基, 诸如甲基, R^b 可以特别是氢或甲基, 特别是氢。此类 LNA 核苷也称作构象约束核苷酸 (CRN) 且公开于 WO 2013/036868, 据此通过援引收录它。

[0181] 在本发明的一个特定实施方案中, $-X-Y-$ 是 $-O-CR^aR^b-O-CR^aR^b-$, 诸如 $-O-CH_2-O-CH_2-$, W 是氧且 R^1, R^2, R^3, R^5 和 R^{5*} 同时均是氢。 R^a 和 R^b 有利地独立选自氢, 卤素, 烷基和烷氧基烷基, 特别是氢, 甲基, 氟和甲氧基甲基。在此类特定实施方案中, R^a 可以特别是烷基, 诸如甲基, R^b 可以特别是氢或甲基, 特别是氢。此类 LNA 核苷也称作 COC 核苷酸且公开于 Mitsuoka et al., Nucleic Acids Research, 2009, 37 (4), 1225-1238, 据此通过援引收录它。

[0182] 除非另有规定,会认识的是,LNA核苷可以是 β -D或 α -L立体异构体。

[0183] 本发明的LNA核苷的特定例子呈现于方案1(其中B如上文定义的)。

[0184] 方案1



[0187] 特定的LNA核苷是 β -D-氧基-LNA, 6'-甲基- β -D-氧基-LNA, 诸如(S)-6'-甲基- β -D-氧基-LNA (ScET) 和ENA。

[0188] 化学基团定义

[0189] 在本说明书中,单独或组合的术语“烷基”表示具有1至8个碳原子的直链或支链烷基基团,特别是具有1至6个碳原子的直或支链烷基基团和更加特别是具有1至4个碳原子的直或支链烷基基团。直链和支链 C_1 - C_8 烷基基团的例子是甲基,乙基,丙基,异丙基,丁基,异丁基,叔丁基,异构的戊基,异构的己基,异构的庚基和异构的辛基,特别是甲基,乙基,丙基,丁基和戊基。烷基的特定例子是甲基,乙基和丙基。

[0190] 单独或组合的术语“环烷基”表示具有3至8个碳原子的环烷基环和特别是具有3至6个碳原子的环烷基环。环烷基的例子是环丙基,环丁基,环戊基,环己基,环庚基和环辛基,更加特别是环丙基和环丁基。“环烷基”的特定例子是环丙基。

[0191] 单独或组合的术语“烷氧基”表示式烷基-O-的基团,其中术语“烷基”具有先前给出的含义,诸如甲氧基,乙氧基,正丙氧基,异丙氧基,正丁氧基,异丁氧基,仲丁氧基和叔丁氧基。特定的“烷氧基”是甲氧基和乙氧基。甲氧基乙氧基是“烷氧基烷氧基”的特定例子。

[0192] 单独或组合的术语“氧基”表示-O-基团。

[0193] 单独或组合的术语“烯基”表示包含烯键和多至8个,优选多至6个,特别是优选多至4个碳原子的直链或支链烃残基。烯基基团的例子是乙烯基,1-丙烯基,2-丙烯基,异丙烯基,1-丁烯基,2-丁烯基,3-丁烯基和异丁烯基。

[0194] 单独或组合的术语“炔基”表示包含三键和多至8个,优选多至6个,特别是优选多至4个碳原子的直链或支链烃残基。

[0195] 单独或组合的术语“卤素”或“卤代”表示氟,氯,溴或碘,特别是氟,氯或溴,更加特别是氟。与另一个基团组合的术语“卤代”表示所述基团被至少一个卤素取代,特别被1-5个卤素,特别是1-4个卤素,即1,2,3或4个卤素取代。

[0196] 单独或组合的术语“卤代烷基”表示被至少一个卤素取代的烷基基团,特别是被1-5个卤素,特别是1-3个卤素取代。卤代烷基的例子包括一氟,二氟或三氟甲基,乙基或丙基,例如3,3,3-三氟丙基,2-氟乙基,2,2,2-三氟乙基,氟甲基或三氟甲基。氟甲基,二氟甲基和三氟甲基是特定的“卤代烷基”。

[0197] 单独或组合的术语“卤代环烷基”表示被至少一个卤素取代的如上文定义的环境基基团,特别是被1-5个卤素,特别是1-3个卤素取代。“卤代环烷基”的特定例子是卤代环丙基,特别是氟环丙基,二氟环丙基和三氟环丙基。

[0198] 单独或组合的术语“羟基”表示-OH基团。

[0199] 单独或组合的术语“硫羟基”表示-SH基团。

[0200] 单独或组合的术语“羰基”表示-C(=O)-基团。

[0201] 单独或组合的术语“羧基”表示-COOH基团。

[0202] 单独或组合的术语“氨基”表示伯氨基基团(-NH₂),仲氨基基团(-NH-),或叔氨基基团(-N-)。

[0203] 单独或组合的术语“烷基氨基”表示被1或2个如上文定义的烷基基团取代的如上文定义的氨基基团。

[0204] 单独或组合的术语“磺酰基”表示-SO₂基团。

[0205] 单独或组合的术语“亚磺酰基”表示-SO-基团。

[0206] 单独或组合的术语“硫烷基”表示-S-基团。

[0207] 单独或组合的术语“氰基”表示-CN基团。

[0208] 单独或组合的术语“叠氮基”表示-N₃基团。

[0209] 单独或组合的术语“硝基”表示-NO₂基团。

[0210] 单独或组合的术语“甲酰基”表示-C(=O)H基团。

[0211] 单独或组合的术语“氨甲酰基”表示-C(=O)NH₂基团。

[0212] 单独或组合的术语“脲基”表示-NH-C(=O)-NH₂基团。

[0213] 单独或组合的术语“芳基”表示任选被1至3个独立选自卤素,羟基,烷基,烯基,炔基,烷氧基,烷氧基烷基,烯基氧基,羧基,烷氧基羰基,烷基羰基和甲酰基的取代基取代的,包含6至10个碳环原子的一价芳香族碳环单或双环系统。芳基的例子包括苯基和萘基,特

别是苯基。

[0214] 单独或组合的术语“杂芳基”表示任选被1至3个独立选自卤素,羟基,烷基,烯基,炔基,烷氧基,烷氧基烷基,烯基氧基,羧基,烷氧基羰基,烷基羰基和甲酰基的取代基取代的,5至12个环原子的一价芳香族杂环单或双环系统,其包含1,2,3或4个选自N,O和S的杂原子,剩余环原子是碳。杂芳基的例子包括吡咯基,呋喃基,噻吩基,咪唑基,噁唑基,噻唑基,三唑基,噁二唑基,噻二唑基,四唑基,吡啶基,吡嗪基,吡唑基,哒嗪基,嘧啶基,三嗪基,氮杂环庚烷基,二氮杂环庚烷基,异噁唑基,苯并呋喃基,异噻唑基,苯并噻吩基,吡啶基,异吡啶基,异苯并呋喃基,苯并咪唑基,苯并噁唑基,苯并异噁唑基,苯并噻唑基,苯并异噻唑基,苯并噁二唑基,苯并噻二唑基,苯并三唑基,嘌呤基,喹啉基,异喹啉基,喹唑啉基,喹噁啉基,呋唑基或吡啶基。

[0215] 单独或组合的术语“杂环基”表示任选被1至3个独立选自卤素,羟基,烷基,烯基,炔基,烷氧基,烷氧基烷基,烯基氧基,羧基,烷氧基羰基,烷基羰基和甲酰基的取代基取代的,4至12个,特别是4至9个环原子的一价饱和或部分不饱和的单或双环系统,其包含1,2,3或4个选自N,O和S的杂原子,剩余环原子是碳。单环饱和杂环基的例子是氮杂环丁烷基,吡咯烷基,四氢呋喃基,四氢噻吩基,吡唑烷基,咪唑烷基,噁唑烷基,异噁唑烷基,噻唑烷基,哌啶基,四氢吡喃基,四氢噻喃基,哌嗪基,吗啉基,硫吗啉基,1,1-二氧化-硫吗啉-4-基,氮杂环庚烷基,二氮杂环庚烷基,高哌嗪基,或氧杂氮杂环庚烷基。双环饱和杂环基的例子是8-氮杂-双环[3.2.1]辛基,奎宁环基,8-氧杂-3-氮杂-双环[3.2.1]辛基,9-氮杂-双环[3.3.1]壬基,3-氧杂-9-氮杂-双环[3.3.1]壬基,或3-硫杂-9-氮杂-双环[3.3.1]壬基。部分不饱和的杂环基的例子是二氢呋喃基,咪唑啉基,二氢噁唑基,四氢吡啶基或二氢吡喃基。

[0216] 药学可接受盐

[0217] 术语“药学可接受盐”指不是在生物学上或在其它方面不想要的,保留游离碱或游离酸的生物学有效性和特性的那些盐。与无机酸,诸如氢氯酸,氢溴酸,硫酸,硝酸,磷酸,特别是氢氯酸,和有机酸,诸如乙酸,丙酸,乙醇酸,丙酮酸,草酸,马来酸,丙二酸,琥珀酸,富马酸,酒石酸,柠檬酸,苯甲酸,肉桂酸,扁桃酸,甲磺酸,乙磺酸,p-甲苯磺酸,水杨酸,N-乙酰基半胱氨酸形成盐。另外,可以通过将无机碱或有机碱添加至游离酸来制备这些盐。自无机碱衍生的盐包括但不限于钠,钾,锂,铵,钙,镁盐。自有机碱衍生的盐包括但不限于伯,仲,和叔胺,取代的胺,包括天然发生的取代的胺,环胺和碱性离子交换树脂,诸如异丙胺,三甲胺,二乙胺,三乙胺,三丙胺,乙醇胺,赖氨酸,精氨酸,N-乙基哌啶,哌啶,多胺树脂的盐。式(I)的化合物也可以以两性离子的形式存在。式(I)的化合物的特别优选的药学可接受盐是氢氯酸,氢溴酸,硫酸,磷酸和甲磺酸的盐。

[0218] 保护基团

[0219] 单独或组合的术语“保护基团”表示选择性封闭多官能化合物中的反应性位点,使得能在另一个未保护的反应性位点选择性进行化学反应的基团。可以去除保护基团。例示性保护基团是氨基保护基团,羧基保护基团或羟基保护基团。

[0220] 核酸酶介导的降解

[0221] 核酸酶介导的降解指在与此类序列形成双链体时能够介导互补核苷酸序列降解的寡核苷酸。

[0222] 在一些实施方案中,寡核苷酸可经由核酸酶介导的靶核酸降解来发挥功能,其中本发明的寡核苷酸能够募集核酸酶,特别是内切核酸酶,优选内切核糖核酸酶(RNA酶),诸如RNA酶H。经由核酸酶介导的机制运作的寡核苷酸设计的例子是典型地包含至少5或6个DNA核苷的区域且一侧或两侧侧翼为亲和力增强性核苷的寡核苷酸,例如缺口体(gapmer),头体(headmer)和尾体(tailmer)。

[0223] RNA酶H活性和募集

[0224] 反义寡核苷酸的RNA酶H活性指它在与互补RNA分子形成双链体时募集RNA酶H的能力。WO 01/23613提供用于测定RNA酶H活性的体外方法,其可用于测定募集RNA酶H的能力。典型地,如果在与互补靶核酸序列一起提供时具有使用与所测试的修饰的寡核苷酸具有相同碱基序列但只含有在寡核苷酸中的所有单体之间具有硫代磷酸酯连接的DNA单体的寡核苷酸,且使用由WO 01/23613(据此通过援引收录)的实施例91-95提供的方法学测定的初始速率的至少5%,诸如至少10%或多于20%的初始速率(如以pmol/l/min测量的)的话,认为寡核苷酸能够募集RNA酶H。供测定RNA酶H活性中使用,重组人RNA酶H1自Lubio Science GmbH(Lucerne,Switzerland)可得。

[0225] 缺口体

[0226] 本发明的反义寡核苷酸或其连续核苷酸序列可以是缺口体。反义缺口体常常用于经由RNA酶H介导的降解来抑制靶核酸。缺口体寡核苷酸包含至少三个独特的结构区,5'侧翼,缺口和3'侧翼,“5->3”取向的F-G-F’。“缺口”区(G)包含使得寡核苷酸能够募集RNA酶H的一段连续DNA核苷酸。缺口区侧翼是包含一个或多个糖修饰的核苷,有利地是高亲和力糖修饰的核苷的5'侧翼区(F),和包含一个或多个糖修饰的核苷,有利地是高亲和力糖修饰的核苷的3'侧翼区(F')。F和F'区中的一个或多个糖修饰的核苷增强寡核苷酸对靶核酸的亲和力(即,是亲和力增强性糖修饰的核苷)。在一些实施方案中,F和F'区中的一个或多个糖修饰的核苷是2'糖修饰的核苷,诸如高亲和力2'糖修饰,诸如独立选自LNA和2'-MOE。

[0227] 在缺口体设计中,缺口区的最5'和3'核苷是DNA核苷,而且分别位置与5'(F)或3'(F')区的糖修饰的核苷相邻。可以通过在最远离缺口区的末端,即在5'侧翼的5'末端和在3'侧翼的3'末端具有至少一个糖修饰的核苷来进一步定义侧翼。

[0228] F-G-F'区形成连续核苷酸序列。本发明的反义寡核苷酸或其连续核苷酸序列可包含式F-G-F'的缺口体区。

[0229] 缺口体设计F-G-F'的总体长度可以是例如12至32个核苷,诸如13至24个,诸如14至22个核苷,诸如14至17个,诸如16至18个核苷。

[0230] 举例而言,本发明的缺口体寡核苷酸可以用下式表示:

[0231] $F_{1-8}-G_{5-16}-F'_{1-8}$, 诸如 $F_{1-8}-G_{7-16}-F'_{2-8}$,

[0232] 前提是缺口体区F-G-F'的总体长度是长度为至少12个,诸如至少14个核苷酸。

[0233] 下面进一步定义F,G和F'区,而且可以并入F-G-F'式。

[0234] 缺口体-G区

[0235] 缺口体的G区(缺口区)是使得寡核苷酸能够募集RNA酶H,诸如人RNA酶H1的核苷,典型地是DNA核苷的区域。RNA酶H是识别DNA和RNA之间的双链体,并酶促切割RNA分子的细胞酶。合适地,缺口体可具有长度为至少5或6个连续DNA核苷,诸如5-16个连续DNA核苷,诸如6-15个连续DNA核苷,诸如7-14个连续DNA核苷,诸如8-12个连续DNA核苷酸,诸如8-12个

连续DNA核苷酸的缺口区(G)。在一些实施方案中,缺口区G可以由6,7,8,9,10,11,12,13,14,15或16个连续DNA核苷组成。在一些情况中,缺口区中的胞嘧啶(C)DNA可以是甲基化的,此类残基或是注释为5-甲基-胞嘧啶(^mC)或是用E代替C。如果缺口中存在CG二核苷酸的话,缺口中的胞嘧啶DNA的甲基化对于降低潜在毒性是有利的,修饰对寡核苷酸的功效没有显著影响。

[0236] 在一些实施方案中,缺口区G可以由6,7,8,9,10,11,12,13,14,15或16个连续硫代磷酸酯连接的DNA核苷组成。在一些实施方案中,缺口中的所有核苷间连接是硫代磷酸酯连接。

[0237] 尽管传统的缺口体具有DNA缺口区,然而有在缺口区内使用时容许RNA酶H募集的修饰的核苷的众多例子。已经报告为在缺口区内包括时能够募集RNA酶H的修饰的核苷包括例如 α -L-LNA, C4' 烷基化DNA (如描述于PCT/EP2009/050349和Vester et al., Bioorg.Med.Chem.Lett.18 (2008) 2296-2300,通过援引将二者收入本文),阿拉伯糖衍生的核苷,像ANA和2'F-ANA (Mangos et al., 2003, J.Am.Chem.Soc.125,654-661),UNA (未锁定的核酸) (如描述于Fluiter et al., Mol.Biosyst., 2009,10,1039,通过援引收入本文)。UNA是未锁定的核酸,典型地其中已经去除核糖的C2和C3之间的键,形成未锁定的“糖”残基。此类缺口体中使用的修饰的核苷可以是在引入缺口区时采取2' 向内 (DNA样) 结构的核苷,即容许RNA酶H募集的修饰。在一些实施方案中,本文中描述的DNA缺口区(G)可任选含有1至3个在引入缺口区时采取2' 向内 (DNA样) 结构的糖修饰的核苷。

[0238] G区-“缺口破坏者”

[0239] 或者,有将赋予3' 向内构象的修饰的核苷插入缺口体的缺口区,同时保留一些RNA酶H活性的众多报告。具有包含一个或多个3' 向内修饰的核苷的缺口区的此类缺口体称作“缺口破坏者”或“缺口断裂”缺口体,见例如W02013/022984。缺口破坏者寡核苷酸在缺口区内保留足够的DNA核苷区域以容许RNA酶H募集。缺口破坏者寡核苷酸设计募集RNA酶H的能力典型地是序列或甚至化合物特异性的,见Rukov et al., 2015, Nucl.Acids Res.Vol.43, pp.8476-8487,其公开募集RNA酶H的“缺口破坏者”寡核苷酸,其在一些情况中提供更加特异性的对靶RNA的切割。缺口破坏者寡核苷酸的缺口区内使用的修饰的核苷可以是例如赋予3' 向内构象的修饰的核苷,诸如2' -O-甲基 (OMe) 或2' -O-MOE (MOE) 核苷,或 β -D-LNA核苷 (核苷的核糖糖环的C2' 和C4' 之间的桥处于 β 构象),诸如 β -D-氧基LNA或ScET核苷。

[0240] 就像含有上文描述的G区的缺口体,缺口破坏者或缺口破坏缺口体的缺口区具有缺口的5' 末端 (与F区的3' 核苷相邻) 处的DNA核苷和缺口的3' 末端 (与F' 区的5' 核苷相邻) 处的DNA核苷。包含破坏缺口的缺口体典型地保留缺口区的5' 末端或3' 末端任一处的至少3或4个连续DNA核苷的区域。

[0241] 缺口破坏者寡核苷酸的例示性设计包括

[0242] $F_{1-8}-[D_{3-4}-E_1-D_{3-4}]-F'_{1-8}$

[0243] $F_{1-8}-[D_{1-4}-E_1-D_{3-4}]-F'_{1-8}$

[0244] $F_{1-8}-[D_{3-4}-E_1-D_{1-4}]-F'_{1-8}$

[0245] 其中G区在方括号 $[D_n-E_r-D_m]$ 内,D是DNA核苷的连续序列,E是修饰的核苷(缺口破坏者或缺口破坏核苷),而F和F' 是如本文中定义的侧翼区,而且前提是缺口体区F-G-F' 的总体长度是长度为至少12个,诸如至少14个核苷酸。

[0246] 在一些实施方案中,缺口破坏缺口体的G区包含至少6个DNA核苷,诸如6,7,8,9,10,11,12,13,14,15或16个DNA核苷。如上文描述的,DNA核苷可以是连续的,或者可以任选是散布有一个或多个修饰的核苷,前提是缺口区G能够介导RNA酶H募集。

[0247] 缺口体-侧翼区,F和F'

[0248] F区位置紧邻G区的5' DNA核苷。F区的最3' 核苷是糖修饰的核苷,诸如高亲和力糖修饰的核苷,例如2' 取代的核苷,诸如MOE核苷,或LNA核苷。

[0249] F' 区位置紧邻G区的3' DNA核苷。F' 区的最5' 核苷是糖修饰的核苷,诸如高亲和力糖修饰的核苷,例如2' 取代的核苷,诸如MOE核苷,或LNA核苷。

[0250] F区长度为1-8个连续核苷酸,诸如长度为2-6个,诸如3-4个连续核苷酸。有利地,F区的最5' 核苷是糖修饰的核苷。在一些实施方案中,F区的两个最5' 核苷是糖修饰的核苷。在一些实施方案中,F区的最5' 核苷是LNA核苷。在一些实施方案中,F区的两个最5' 核苷是LNA核苷。在一些实施方案中,F区的两个最5' 核苷是2' 取代的核苷,诸如两个3' MOE核苷。在一些实施方案中,F区的最5' 核苷是2' 取代的核苷,诸如MOE核苷。

[0251] F' 区长度为2-8个连续核苷酸,诸如长度为3-6个,诸如4-5个连续核苷酸。有利地,F' 区的最3' 核苷是糖修饰的核苷。在一些实施方案中,F' 区的两个最3' 核苷是糖修饰的核苷。在一些实施方案中,F' 区的两个最3' 核苷是LNA核苷。在一些实施方案中,F' 区的最3' 核苷是LNA核苷。在一些实施方案中,F' 区的两个最3' 核苷是2' 取代的核苷,诸如两个3' MOE核苷。在一些实施方案中,F' 区的最3' 核苷是2' 取代的核苷,诸如MOE核苷。

[0252] 应当注意,当F或F' 区的长度为1时,它有利地是LNA核苷。

[0253] 在一些实施方案中,F和F' 区独立由糖修饰的核苷的连续序列组成或包含其。在一些实施方案中,F区的糖修饰的核苷可以独立选自2' -O-烷基-RNA单元,2' -O-甲基-RNA,2' -氨基-DNA单元,2' -氟-DNA单元,2' -烷氧基-RNA,MOE单元,LNA单元,阿拉伯糖核酸(ANA)单元和2' -氟-ANA单元。

[0254] 在一些实施方案中,F和F' 区独立包含LNA和2' 取代的修饰的核苷二者(混合翼设计)。

[0255] 在一些实施方案中,F和F' 区由仅仅一种类型的糖修饰的核苷组成,诸如仅仅MOE或仅仅 β -D-氧基LNA或仅仅ScET。此类设计也称作均匀侧翼或均匀缺口体设计。

[0256] 在一些实施方案中,F或F',或F和F' 区的所有核苷是LNA核苷,诸如独立选自 β -D-氧基LNA,ENA或ScET核苷。在一些实施方案中,F区由1-5个,诸如2-4个,诸如3-4个,诸如1,2,3,4或5个连续LNA核苷组成。在一些实施方案中,F和F' 区的所有核苷是 β -D-氧基LNA核苷。

[0257] 在一些实施方案中,F或F',或F和F' 区的所有核苷是2' 取代的核苷,诸如OMe或MOE核苷。在一些实施方案中,F区由1,2,3,4,5,6,7,或8个连续OMe或MOE核苷组成。在一些实施方案中,仅侧翼区之一可以由2' 取代的核苷,诸如OMe或MOE核苷组成。在一些实施方案中,是5' (F) 侧翼区由2' 取代的核苷,诸如OMe或MOE核苷组成,而3' (F') 侧翼区包含至少一个LNA核苷,诸如 β -D-氧基LNA核苷或cET核苷。在一些实施方案中,是3' (F') 侧翼区由2' 取代的核苷,诸如OMe或MOE核苷组成,而5' (F) 侧翼区包含至少一个LNA核苷,诸如 β -D-氧基LNA核苷或cET核苷。

[0258] 在一些实施方案中,F和F' 区的所有修饰的核苷是LNA核苷,诸如独立选自 β -D-氧

基LNA,ENA或ScET核苷,其中F或F',或F和F'区可以任选包含DNA核苷(交替侧翼,更多详情见这些的定义)。在一些实施方案中,F和F'区的所有修饰的核苷是 β -D-氧基LNA核苷,其中F或F',或F和F'区可以任选包含DNA核苷(交替侧翼,更多详情见这些的定义)。

[0259] 在一些实施方案中,F和F'区的最5'和最3'核苷是LNA核苷,诸如 β -D-氧基LNA核苷或ScET核苷。

[0260] 在一些实施方案中,F区和G区之间的核苷间连接是硫代磷酸酯核苷间连接。在一些实施方案中,F'区和G区之间的核苷间连接是硫代磷酸酯核苷间连接。在一些实施方案中,F或F',F和F'区的核苷之间的核苷间连接是硫代磷酸酯核苷间连接。

[0261] 别的缺口体设计公开于WO 2004/046160,WO 2007/146511和WO2008/113832,据此通过援引收录。

[0262] LNA缺口体

[0263] LNA缺口体是其中F和F'区之一或二者包含LNA核苷或由其组成的缺口体。 β -D-氧基缺口体是其中F和F'区之一或二者包含 β -D-氧基LNA核苷或由其组成的缺口体。

[0264] 在一些实施方案中,LNA缺口体是式:[LNA]₁₋₅-[G区]-[LNA]₁₋₅,其中G区如缺口体G区定义中定义的。

[0265] MOE缺口体

[0266] MOE缺口体是其中F和F'区由MOE核苷组成的缺口体。在一些实施方案中,MOE缺口体是设计[MOE]₁₋₈-[G区]-[MOE]₁₋₈,诸如[MOE]₂₋₇-[G区]₅₋₁₆-[MOE]₂₋₇,诸如[MOE]₃₋₆-[G区]-[MOE]₃₋₆,其中G区如缺口体定义中定义的。具有5-10-5设计(MOE-DNA-MOE)的MOE缺口体已经在本领域广泛使用。

[0267] 混合翼缺口体

[0268] 混合翼缺口体是其中F和F'区之一或二者包含2'取代的核苷,诸如独立选自由2'-O-烷基-RNA单元,2'-O-甲基-RNA,2'-氨基-DNA单元,2'-氟-DNA单元,2'-烷氧基-RNA,MOE单元,阿拉伯糖核酸(ANA)单元和2'-氟-ANA单元核苷组成的组的2'取代的核苷,诸如MOE核苷的LNA缺口体。在其中F和F'区至少之一或F和F'区二者包含至少一个LNA核苷的一些实施方案中,F和F'区的剩余核苷独立选自由MOE和LNA组成的组。在其中F和F'区至少之一或F和F'区二者包含至少两个LNA核苷的一些实施方案中,F和F'区的剩余核苷独立选自由MOE和LNA组成的组。在一些混合翼实施方案中,F和F'区之一或二者可进一步包含一个或多个DNA核苷。

[0269] 混合翼缺口体设计公开于WO 2008/049085和WO 2012/109395,通过援引收录它们二者。

[0270] 交替侧翼缺口体

[0271] 侧翼区可包含LNA和DNA核苷二者且称作“交替侧翼”,因为它们包含LNA-DNA-LNA核苷的交替基序。包含此类交替侧翼的缺口体称作“交替侧翼缺口体”。“交替侧翼缺口体”因而是其中侧翼至少之一(F或F')在LNA核苷以外包含DNA的LNA缺口体寡核苷酸。在一些实施方案中,F或F'区至少之一或F和F'区二者包含LNA核苷和DNA核苷二者。在此类实施方案中,侧翼区F或F',或F和F'二者包含至少三个核苷,其中F和/或F'区的最5'和3'核苷是LNA核苷。

[0272] 交替侧翼LNA缺口体公开于WO 2016/127002。

[0273] 具有交替侧翼的寡核苷酸是其中侧翼至少之一(F或F')在LNA核苷以外包含DNA的LNA缺口体寡核苷酸。在一些实施方案中,F或F'区至少之一或F和F'区二者包含LNA核苷和DNA核苷二者。在此类实施方案中,侧翼区F或F',或F和F'二者包含至少三个核苷,其中F和/或F'区的最5'和3'核苷是LNA核苷。

[0274] 在一些实施方案中,F或F'区至少之一或F和F'区二者包含LNA核苷和DNA核苷二者。在此类实施方案中,侧翼区F或F',或F和F'二者包含至少三个核苷,其中F或F'区的最5'和3'核苷是LNA核苷,等等。包含LNA和DNA核苷二者的侧翼区称作交替侧翼,因为它们包含LNA-DNA-LNA核苷的交替基序。交替侧翼LNA缺口体公开于WO 2016/127002。

[0275] 交替侧翼区可包含多至3个连续DNA核苷,诸如1至2个,或1,2或3个连续DNA核苷。

[0276] 交替侧翼可以注释为一系列整数,代表LNA核苷(L)的数目,继以DNA核苷(D)的数目,例如

[0277] [L]₁₋₃-[D]₁₋₄-[L]₁₋₃

[0278] [L]₁₋₂-[D]₁₋₂-[L]₁₋₂-[D]₁₋₂-[L]₁₋₂

[0279] 在寡核苷酸设计中,这些常常会用数目代表,诸如2-2-1代表5' [L]₂-[D]₂-[L]₃',而1-1-1-1-1代表5' [L]-[D]-[L]-[D]-[L]₃'。具有交替侧翼的寡核苷酸中侧翼(F和F'区)的长度可以独立是3至10个核苷,诸如4至8个,诸如5至6个核苷,诸如4,5,6或7个修饰的核苷。在一些实施方案中,缺口体寡核苷酸中的侧翼仅之一是交替的,而另一由LNA核苷酸构成。在3'侧翼(F')的3'末端具有至少两个LNA核苷对于赋予另外的外切核酸酶抗性可能是有利的。具有交替侧翼的寡核苷酸的一些例子是:

[0280] [L]₁₋₅-[D]₁₋₄-[L]₁₋₃-[G]₅₋₁₆-[L]₂₋₆

[0281] [L]₁₋₂-[D]₁₋₂-[L]₁₋₂-[D]₁₋₂-[L]₁₋₂-[G]₅₋₁₆-[L]₁₋₂-[D]₁₋₃-[L]₂₋₄

[0282] [L]₁₋₅-[G]₅₋₁₆-[L]-[D]-[L]-[D]-[L]₂

[0283] 前提是缺口体的总体长度是长度为至少12个,诸如至少14个核苷酸。

[0284] 寡核苷酸中的D'或D''区

[0285] 在一些实施方案中,本发明的寡核苷酸可包含与靶核酸互补的寡核苷酸的连续核苷酸序列,诸如缺口体F-G-F',和别的5'和/或3'核苷或由其组成。别的5'和/或3'核苷可以是或不是与靶核酸完全互补的。此类别的5'和/或3'核苷在本文中可称作D'和D''区。

[0286] D'或D''区的添加可用于将连续核苷酸序列,诸如缺口体连接至缀合物模块或另一个官能团的目的。当用于连接连续核苷酸序列与缀合物模块时,它可充当生物可切割接头。或者,它可用于提供外切核酸酶保护或使合成或制造变得容易。

[0287] D'和D''区可附着于F区的5'末端或F'区的3'末端,分别生成下式D'-F-G-F', F-G-F'-D'或D'-F-G-F'-D'的设计。在这种情况下,F-G-F'是寡核苷酸的缺口体部分,而D'或D''区构成寡核苷酸的分开部分。

[0288] D'或D''区可独立包含与靶核酸互补或不互补的1,2,3,4或5个另外的核苷酸或由其组成。与F或F'区相邻的核苷酸不是糖修饰的核苷酸,诸如DNA或RNA或这些的碱基修饰型式。D'或D''区可充当核酸酶易感性生物可切割接头(见接头的定义)。在一些实施方案中,另外的5'和/或3'末端核苷酸是以磷酸二酯连接连接的,而且是DNA或RNA。适合用作D'或D''区的基于核苷酸的生物可切割接头公开于WO 2014/076195,其包括例如磷酸二酯连接的DNA二核苷酸。多-寡核苷酸构建物中生物可切割接头的使用公开于WO2015/113922,其中它们

用于在单个寡核苷酸内连接多个反义构建物(例如缺口体区)。

[0289] 在一个实施方案中,本发明的寡核苷酸在构成缺口体的连续核苷酸序列以外包含D' 和/或D'' 区。

[0290] 在一些实施方案中,本发明的寡核苷酸可以以下式表示:

[0291] $F-G-F'$, 特别是 $F_{1-8}-G_{5-16}-F'_{2-8}$

[0292] $D'-F-G-F'$, 特别是 $D'_{1-3}-F_{1-8}-G_{5-16}-F'_{2-8}$

[0293] $F-G-F'-D''$, 特别是 $F_{1-8}-G_{5-16}-F'_{2-8}-D''_{1-3}$

[0294] $D'-F-G-F'-D''$, 特别是 $D'_{1-3}-F_{1-8}-G_{5-16}-F'_{2-8}-D''_{1-3}$

[0295] 在一些实施方案中,位于D' 区和F区之间的核苷间连接是磷酸二酯连接。在一些实施方案中,位于F' 区和D'' 区之间的核苷间连接是磷酸二酯连接。

[0296] 缀合物

[0297] 如本文中使用的术语缀合物指与非核苷酸模块(缀合物模块或C区或第三区)共价连接的寡核苷酸。

[0298] 本发明的寡核苷酸对一个或多个非核苷酸模块的缀合可改善寡核苷酸的药理学,例如通过影响寡核苷酸的活性,细胞分布,细胞摄取或稳定性。在一些实施方案中,缀合物模块通过改善寡核苷酸的细胞分布,生物利用度,代谢,排泄,通透性,和/或细胞摄取来修饰或增强寡核苷酸的药动学特性。特别是,缀合物可将寡核苷酸靶向特定器官,组织或细胞类型并由此增强寡核苷酸在该器官,组织或细胞类型中的有效性。同时,缀合物可用来降低寡核苷酸在非靶细胞类型,组织或器官中的活性,例如脱靶活性或在非靶细胞类型,组织或器官中的活性。WO 93/07883和WO 2013/033230提供了合适的缀合物模块,通过援引收录它们。别的合适的缀合物模块是那些能够结合无唾液酸糖蛋白受体(ASGPr)的。特别是,三价N-乙酰基半乳糖胺缀合物模块适合于结合ASGPr,见例如WO 2014/076196,WO 2014/207232和WO2014/179620(据此通过援引收录,特别是WO 2014/076196的图13或WO2014/179620的权利要求158-164)。

[0299] 寡核苷酸缀合物和它们的合成还已经在全面综述中报告,Manoharan,Antisense Drug Technology,Principles,Strategies,and Applications,S.T.Crooke,ed.,Ch.16,Marcel Dekker,Inc.,2001和Manoharan,Antisense and Nucleic Acid Drug Development,2002,12,103,通过援引将其每一篇完整收入本文。

[0300] 在一个实施方案中,非核苷酸模块(缀合物模块)选自由碳水化合物,细胞表面受体配体,药物物质,激素,亲脂性物质,聚合物,蛋白质,肽,毒素(例如细菌毒素),维生素,病毒蛋白质(例如衣壳)或其组合组成的组。

[0301] 接头

[0302] 连接或接头是两个原子之间的联系,经由一个或多个共价键连接一个感兴趣化学基团或区段与另一个感兴趣化学基团或区段。缀合物模块可直接或经由连接模块(例如接头或系链)附着于寡核苷酸。接头用来共价连接第三区,例如缀合物模块(C区)与第一区,例如与靶核酸互补的寡核苷酸或连续核苷酸序列(A区),由此连接A区的末端之一与C。

[0303] 在本发明的一些实施方案中,本发明的缀合物或寡核苷酸缀合物可任选包含位于与靶核酸互补的寡核苷酸或连续核苷酸序列(A区或第一区)和缀合物模块(C区或第三区)之间的接头区(第二区或B区和/或Y区)。

[0304] B区指包含在正常情况下遭遇的或与在哺乳动物身体内遭遇的条件类似的条件下可切割的生理学上不稳定的键或由其组成的生物可切割接头。生理学上不稳定的接头经历化学转化(例如切割)的条件包括在哺乳动物细胞中找到的或与在哺乳动物细胞中遭遇的那些类似的化学条件,诸如pH,温度,氧化性或还原性条件或药剂,和盐浓度。哺乳动物细胞内条件还包括正常情况下在哺乳动物细胞中存在的酶活性的存在,诸如蛋白水解酶或水解酶或核酸酶。在一个实施方案中,生物可切割接头对S1核酸酶切割易感。在一个优选的实施方案中,核酸酶易感性接头包含1至10个核苷,诸如1,2,3,4,5,6,7,8,9或10个核苷,更优选2至6个核苷,最优选2至4个连接的核苷,包含至少两个连续磷酸二酯连接,诸如至少3或4或5个连续磷酸二酯连接。优选地,核苷是DNA或RNA。含有磷酸二酯的生物可切割接头更加详细地描述于W02014/076195(据此通过援引收录)。

[0305] 还可以经由非生物可切割接头将缀合物连接至寡核苷酸,或者在一些实施方案中,缀合物可包含共价附着至生物可切割接头的不可切割接头(Y区)。并非必然生物可切割但主要用来共价连接缀合物模块(C区或第三区)与寡核苷酸(A区或第一区)的接头可包含链结构或重复单元,诸如乙二醇,氨基酸单元或氨基烷基基团的寡聚物。本发明的寡核苷酸缀合物可以用下面的区域元件构建:A-C,A-B-C,A-B-Y-C,A-Y-B-C或A-Y-C。在一些实施方案中,不可切割接头(Y区)是氨基烷基,诸如C2至C36氨基烷基基团,包括例如C6至C12氨基烷基基团。在一个优选的实施方案中,接头(Y区)是C6氨基烷基基团。缀合物接头基团可经由使用氨基修饰的寡核苷酸和缀合物基团上的活化的酯基团例行附着至寡核苷酸。

[0306] 治疗

[0307] 如本文中使用的术语“治疗”指治疗现有的疾病(例如如本文中提到的疾病或病症)或预防疾病(即防范)二者。因此会认识的是,如本文中提到的治疗在一些实施方案中可以是预防性的。

[0308] 发明详述

[0309] 本发明的寡核苷酸

[0310] 本发明涉及能够抑制FNDC3B的表达的寡核苷酸。可以通过与编码FNDC3B或牵涉调节FNDC3B的靶核酸杂交来实现抑制。靶核酸可以是哺乳动物FNDC3B序列,诸如选自SEQ ID NO:1,2,3,4,5,6,7和8组成的组的序列。

[0311] 本发明的寡核苷酸是靶向FNDC3B的反义寡核苷酸。

[0312] 在一些实施方案中,本发明的反义寡核苷酸能够通过抑制或降低靶标表达来调控靶标的表达。优选地,此类表达抑制是与靶标的正常表达水平相比至少20%,更加优选地与靶标的正常表达水平相比至少30%,至少40%,至少50%,至少60%,至少70%,至少80%,至少90%或至少95%抑制。在一些实施方案中,本发明的寡核苷酸可能能够在体外使用HeLa细胞将FNDC3BmRNA的表达水平抑制至少60%或至少70%。在一些实施方案中,本发明的化合物可能能够在体外使用HeLa细胞将FNDC3B蛋白质的表达水平抑制至少50%。合适地,实施例提供可用于测量FNDC3B RNA或蛋白质抑制的测定法(例如实施例1)。通过寡核苷酸的连续核苷酸序列和靶核酸之间的杂交触发靶标调控。在一些实施方案中,本发明的寡核苷酸包含寡核苷酸和靶核酸之间的错配。尽管错配,与靶核酸的杂交可能仍然足以显示期望的对FNDC3B表达的调控。错配导致的降低的结合亲和力可能通过增加寡核苷酸中核苷酸的数目和/或增加寡核苷酸序列内存在的能够提高对靶物的结合亲和力的修饰的核苷,

诸如2'糖修饰的核苷,包括LNA的数目有利地得到补偿。

[0313] 本发明的一个方面涉及一种长度为10至50个,诸如10至30个核苷酸的反义寡核苷酸,其包含与哺乳动物FNDC3B编码靶核酸具有至少90%互补性,诸如完全互补性的长度为10至30个核苷酸的连续核苷酸序列,其中反义寡核苷酸能够降低细胞中哺乳动物FNDC3B编码靶核酸的表达。

[0314] 本发明的一个方面涉及一种长度为10至30个核苷酸的反义寡核苷酸,其包含与哺乳动物FNDC3B编码靶核酸具有至少90%互补性,诸如完全互补性的长度为12至22个核苷酸的连续核苷酸序列,其中反义寡核苷酸能够降低细胞中哺乳动物FNDC3B编码靶核酸的表达。

[0315] 在一些实施方案中,寡核苷酸包含长度为10至30个核苷酸,诸如长度为12至22个核苷酸的连续核苷酸序列,其与靶核酸或靶序列至少90%互补,诸如至少91%,诸如至少92%,诸如至少93%,诸如至少94%,诸如至少95%,诸如至少96%,诸如至少97%,诸如至少98%,或100%互补。

[0316] 在一个优选的实施方案中,本发明的反义寡核苷酸或其连续核苷酸序列与靶核酸或靶序列完全互补(100%互补),或者在一些实施方案中,可包含寡核苷酸和靶核酸之间的一处或两处错配。

[0317] 本发明的另一个方面涉及反义寡核苷酸,其中连续核苷酸序列与选自SEQ ID NO:1,2,3,4,5,6,7和8,或其天然发生变体组成的组的序列至少90%互补。

[0318] 在一些实施方案中,寡核苷酸序列或连续核苷酸序列与SEQ ID NO:1和SEQ ID NO:8中存在的相应靶序列至少90%互补或至少95%互补,诸如完全互补。在一些实施方案中,反义寡核苷酸的连续序列与哺乳动物FNDC3B编码靶核酸完全互补。

[0319] 在一个优选的实施方案中,寡核苷酸序列或连续核苷酸序列与SEQ ID NO:1和SEQ ID NO:8中存在的相应靶序列100%互补。

[0320] 本发明的另一个方面涉及反义寡核苷酸,其中连续核苷酸序列与哺乳动物FNDC3B编码靶核酸的前mRNA(例如SEQ ID NO:1)中存在的内含子区至少90%互补,诸如完全互补。

[0321] 应当理解,SEQ ID NO:1上的内含子位置可以根据FND3B前mRNA的不同剪接而变化。在本发明的语境中,基因序列或前mRNA中在最终RNA产物(成熟mRNA)的成熟期间通过RNA剪接自前mRNA去除的任何核苷酸序列是内含子,不管它们在SEQ ID NO:1上的位置。表1提供SEQ ID NO:1中的最常见内含子区。

[0322] 在一个优选的实施方案中,本发明涉及反义寡核苷酸,其中连续核苷酸序列与选自SEQ ID NO:1上的位置145-72824,SEQ ID NO:1上的位置72964-93844,和SEQ ID NO:1上的位置93920-147084的人FNDC3B的前mRNA中存在的内含子区至少90%互补,诸如完全互补。

[0323] 在另一个优选的实施方案中,本发明涉及反义寡核苷酸,其中连续核苷酸序列与FNDC3B编码靶核酸的人前mRNA,诸如SEQ ID NO:1上的位置145-72824至少90%互补,诸如完全互补。

[0324] 在另一个优选的实施方案中,本发明涉及反义寡核苷酸,其中连续核苷酸序列与SEQ ID NO:9至少90%互补,诸如完全互补。

[0325] 在另一个优选的实施方案中,本发明涉及反义寡核苷酸,其中连续核苷酸序列与

SEQ ID NO:10至少90%互补,诸如完全互补。

[0326] 在另一个优选的实施方案中,本发明涉及反义寡核苷酸,其中连续核苷酸序列与SEQ ID NO:19至少90%互补,诸如完全互补。

[0327] 在另一个优选的实施方案中,本发明涉及反义寡核苷酸,其中连续核苷酸序列与SEQ ID NO:20至少90%互补,诸如完全互补。

[0328] 在一些实施方案中,寡核苷酸或连续核苷酸序列与靶核酸的一个区域互补,其中靶核酸区域选自自由SEQ ID NO:1的位置54366-54385,54407-54426,54448-54467,54489-54508,54530-54549,54571-54590,54612-54631;54367-54384,54408-54425,54449-54466,54490-54507,54531-54548,54572-54589,54613-54630;54368-54383,54409-54424,54450-54465,54491-54506,54532-54547,54573-54588,54614-54629;54366-54379,54407-54420,54448-54461,54489-54502,54530-54543,54571-54584,54612-54625,351016-351033;351016-351029;351016-351035;351018-35133组成的组。

[0329] 依照本发明的一个方面,靶序列在靶核酸内重复,即在靶核酸中在不同位置处存在至少两个相同的长度为至少10个核苷酸的靶核苷酸序列(靶区)。重复靶区一般是10至50个核苷酸,诸如11至30个核苷酸,诸如12至25个核苷酸,诸如13至22个核苷酸,诸如14至20个核苷酸,诸如15至19个核苷酸,诸如16至18个核苷酸。在一个优选的实施方案中,重复靶区是14至20个核苷酸。

[0330] 在一个方面,本发明提供反义寡核苷酸,其中连续核苷酸序列与跨越SEQ ID NO:1的靶核酸重复至少2次的靶区至少90%互补,诸如完全互补。这样的效果是数个寡核苷酸化合物(具有相同序列)能与同一靶核酸上的一个或多个靶区杂交(同时),这在将寡核苷酸施用于细胞或动物或人时可导致对靶核酸的多个切割事件。

[0331] 在一些实施方案中,寡核苷酸或连续核苷酸序列与重复靶区,至少3个重复靶区,诸如至少4,5,6,7,8,9或10个重复靶区,或多于10个重复靶区的靶区至少90%互补,诸如完全互补。

[0332] 在又一个实施方案中,反义寡核苷酸包含与SEQ ID NO:1的靶核酸的长度为10-22个,诸如14-20个核苷酸的靶区至少90%互补,诸如完全互补的连续核苷酸序列,其中靶区跨越靶核酸的内含子重复至少2次或更多次。

[0333] 在一些实施方案中,本发明的反义寡核苷酸或其连续核苷酸序列与SEQ ID NO:10中的至少6个重复靶区互补。

[0334] 在一些实施方案中,本发明的寡核苷酸包含长度为10至35个核苷酸,诸如长度为10至30个,诸如11至22个,诸如12至20个,诸如14至18个或14至16个连续核苷酸或由其组成。有利地,寡核苷酸包含长度为14至20个核苷酸或由其组成。

[0335] 要理解,本文中给出的任何范围包括范围端点。

[0336] 在一些实施方案中,寡核苷酸或其连续核苷酸序列包含22个或更少核苷酸,诸如20个或更少核苷酸,诸如18个或更少核苷酸,诸如少于18个,诸如14,15,16或17个核苷酸或由其组成。

[0337] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列包含与选自SEQ ID NO:11至18组成的组的序列具有至少90%同一性,优选100%同一性的长度为10至30个核苷酸或由其组成。

[0338] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列包含与选自SEQ ID NO:15至18的序列具有至少90%同一性,优选100%同一性的长度为10至30个连续核苷酸或由其组成。

[0339] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列包含与选自SEQ ID NO:11至14的序列具有至少90%同一性,优选100%同一性的长度为10至30个连续核苷酸或由其组成。

[0340] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列包含与选自SEQ ID NO:15至18的序列具有至少90%同一性,优选100%同一性的长度为12至20个连续核苷酸或由其组成。

[0341] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列包含与选自SEQ ID NO:11至14的序列具有至少90%同一性,优选100%同一性的长度为12至20个连续核苷酸或由其组成。

[0342] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列包含与选自SEQ ID NO:15至18的序列具有至少90%同一性,优选100%同一性的长度为14至20个连续核苷酸或由其组成。

[0343] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列包含与选自SEQ ID NO:11至14的序列具有至少90%同一性,优选100%同一性的长度为14至20个连续核苷酸或由其组成。

[0344] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列(基序序列)由选自SEQ ID NO:15至18的序列组成。

[0345] 在一些实施方案中,反义寡核苷酸或其连续核苷酸序列(基序序列)由选自SEQ ID NO:11至14的序列组成。

[0346] 理解的是,可以修饰连续核碱基序列(基序序列)以例如提高核酸酶抗性和/或对靶核酸的结合亲和力。修饰描述于定义和下面的段落。表4列举每一种基序序列的优选设计。

[0347] 其中修饰的核苷(诸如高亲和力修饰的核苷)掺入寡核苷酸序列的样式一般称作寡核苷酸设计。

[0348] 本发明的寡核苷酸设计成有修饰的核苷和DNA核苷。有利地,使用高亲和力修饰的核苷。

[0349] 在一个实施方案中,寡核苷酸包含至少1个修饰的核苷,诸如至少2个,至少3个,至少4个,至少5个,至少6个,至少7个,至少8个,至少9个,至少10个,至少11个,至少12个,至少13个,至少14个,至少15个或至少16个修饰的核苷。在一个实施方案中,寡核苷酸包含1至10个修饰的核苷,诸如2至9个修饰的核苷,诸如3至8个修饰的核苷,诸如4至7个修饰的核苷,诸如6或7个修饰的核苷。合适的修饰描述于“定义”部分“修饰的核苷”,“高亲和力修饰的核苷”,“糖修饰”,“2'糖修饰”和“锁定的核酸(LNA)”下。

[0350] 在一个实施方案中,寡核苷酸包含一个或多个糖修饰的核苷,诸如2'糖修饰的核苷。优选地,本发明的寡核苷酸包含一个或多个独立选自由2'-O-烷基-RNA,2'-O-甲基-RNA,2'-烷氧基-RNA,2'-O-甲氧基乙基-RNA,2'-氨基-DNA,2'-氟-DNA,阿拉伯糖核酸(ANA),2'-氟-ANA和LNA核苷组成的组的2'糖修饰的核苷。有利的是,一个或多个修饰的核

昔是锁定的核酸(LNA)。

[0351] 在又一个实施方案中,寡核苷酸包含至少一个修饰的核苷间连接。合适的核苷间修饰描述于“定义”部分“修饰的核苷间连接”下。有利的是,连续核苷酸序列内至少75%,诸如所有核苷间连接是硫代磷酸酯或硼酸磷酸酯核苷间连接。在一些实施方案中,寡核苷酸的连续序列中的所有核苷酸间连接是硫代磷酸酯连接。

[0352] 在一些实施方案中,本发明的寡核苷酸包含至少一个LNA核苷,诸如1,2,3,4,5,6,7,或8个LNA核苷,诸如2至6个LNA核苷,诸如3至7个LNA核苷,4至8个LNA核苷,或3,4,5,6,7或8个LNA核苷。在一些实施方案中,寡核苷酸中至少75%的修饰的核苷是LNA核苷,诸如80%,诸如85%,诸如90%的修饰的核苷是LNA核苷。在仍有又一个实施方案中,寡核苷酸中的所有修饰的核苷是LNA核苷。在又一个实施方案中,寡核苷酸可包含 β -D-氧基-LNA和一种或多种下述LNA核苷二者:硫-LNA,氨基-LNA,氧基-LNA,ScET和/或ENA,或是 β -D或是 α -L构型或其组合。在又一个实施方案中,所有LNA胞嘧啶单元是5-甲基-胞嘧啶。具有核苷酸序列的5'末端处的至少1个LNA核苷和3'末端处的至少2个LNA核苷对于寡核苷酸或连续核苷酸序列的核酸酶稳定性是有利的。

[0353] 在本发明的一个实施方案中,本发明的寡核苷酸能够募集RNA酶H。

[0354] 在本发明中,一种有利的结构设计是如“定义”部分中例如“缺口体”,“LNA缺口体”,“MOE缺口体”,“混合翼缺口体”和“交替侧翼缺口体”下描述的缺口体设计。缺口体设计包括具有均匀侧翼,混合翼侧翼,交替侧翼,和缺口破坏者设计的缺口体。在本发明中,有利的是,本发明的寡核苷酸是具有F-G-F'设计的缺口体。在一些实施方案中,缺口体是具有均匀侧翼的LNA缺口体。

[0355] 在本发明的一些实施方案中,LNA缺口体选自下面的均匀侧翼设计:3-12-3,3-9-2,4-10-2,或4-9-3。

[0356] 本发明的例示性化合物

[0357] 在例示性寡核苷酸化合物中,大写字母代表 β -D-氧基LNA核苷,小写字母代表DNA核苷,所有LNA C是5-甲基胞嘧啶,5-甲基DNA胞嘧啶可以存在于缺口区中且会以“e”或“c”表示,且所有核苷间连接是硫代磷酸酯核苷间连接。

[0358] 对于本发明的一些实施方案,寡核苷酸选自具有CMP ID NO:11_1;12_1;13_1和14_1的寡核苷酸化合物的组。

[0359] 在本发明的一个实施方案中,寡核苷酸是CMP ID NO:13_1或14_1。

[0360] 对于本发明的一些实施方案,寡核苷酸选自具有CMP ID NO:15_1;16_1;17_1和18_1的寡核苷酸化合物的组。

[0361] 制造方法

[0362] 在又一个方面,本发明提供用于制造本发明的寡核苷酸的方法,其包含使核苷酸单元起反应并由此形成寡核苷酸中包含的共价连接的连续核苷酸单元。优选地,该方法使用亚磷酰胺(亚氨基磷酸酯,phosphoramidite)化学(见例如Caruthers et al.,1987, Methods in Enzymology vol.154,pages 287-313)。在又一个实施方案中,该方法进一步包含使连续核苷酸序列与缀合模块(配体)起反应。在又一个方面,提供用于制造本发明的组合物的方法,其包含混合本发明的寡核苷酸或缀合的寡核苷酸与药学可接受稀释剂,溶剂,载剂,盐和/或佐剂。

[0363] 药学盐

[0364] 在又一个方面,本发明提供反义寡核苷酸或其缀合物的药学可接受盐。在一个优选的实施方案中,药学可接受盐是钠或钾盐。

[0365] 药学组合物

[0366] 在又一个方面,本发明提供药学组合物,其包含任何上述寡核苷酸和/或寡核苷酸缀合物或其盐和药学可接受稀释剂,载剂,盐和/或佐剂。药学可接受稀释剂包括磷酸盐缓冲盐水(PBS),而药学可接受盐包括但不限于钠和钾盐。在一些实施方案中,药学可接受稀释剂是无菌磷酸盐缓冲盐水。在一些实施方案中,以50-300 μ M溶液的浓度在药学可接受稀释剂中使用寡核苷酸。

[0367] 供本发明中使用的合适的配制剂可见于Remington's Pharmaceutical Sciences, Mack Publishing Company, Philadelphia, Pa., 17th ed., 1985。对于用于药物投递的方法的简要综述,见例如Langer (Science 249:1527-1533, 1990)。WO 2007/031091提供药学可接受稀释剂,载剂和佐剂的别的合适的和优选的例子(据此通过援引收录)。WO 2007/031091中还提供合适的剂量,配制剂,施用路径,组合物,剂型,与其它治疗剂的组合,前药配制剂。

[0368] 本发明的寡核苷酸或寡核苷酸缀合物可以与药学可接受活性或惰性物质混合以制备药学组合物或配制剂。组合物和用于配制药学组合物的方法取决于多项标准,包括但不限于施用的路径,疾病的程度,或要施用的剂量。

[0369] 这些组合物可以通过常规灭菌技术来灭菌,或者可以无菌过滤。所得水溶液可以包装成原样使用,或冻干,冻干制剂在施用前与无菌水载剂组合。制剂的pH典型地会介于3和11之间,更优选地介于5和9之间或介于6和8之间,而且最优选地介于7和8之间,诸如7至7.5。所得固体形式的组合物可以包装成多个单剂单元,每个含有固定量的上述一种或多种药剂,诸如在片剂或胶囊剂的密封包装中。固体形式的组合物也可以包装在用于灵活数量的容器中,诸如在设计用于表面可应用乳膏剂或软膏剂的可挤压管中。

[0370] 在一些实施方案中,本发明的寡核苷酸或寡核苷酸缀合物是前药。特别是就寡核苷酸缀合物而言,一旦前药投递至作用位点,例如靶细胞,就自寡核苷酸切割掉缀合物模块。

[0371] 应用

[0372] 可利用本发明的寡核苷酸作为研究试剂,用于例如诊断,治疗和预防。

[0373] 在研究中,可使用此类寡核苷酸来特异性调控细胞(例如体外细胞培养物)和实验动物中FNDC3B蛋白质的合成,由此推动靶物的功能分析或它作为治疗干预的靶标的有用性的评估。典型地,通过降解或抑制生成蛋白质的mRNA,由此阻止蛋白质形成或通过降解或抑制生成蛋白质的基因或mRNA的调控剂来实现靶物调控。可以通过靶向前mRNA,由此阻止成熟mRNA形成来实现别的优势。

[0374] 如果在研究或诊断中采用本发明的寡核苷酸的话,靶核酸可以是自DNA或RNA衍生的cDNA或合成核酸。

[0375] 本发明提供用于调控表达FNDC3B的靶细胞中的FNDC3B表达的体内或体外方法,所述方法包含以有效量将本发明的寡核苷酸施用于所述细胞。

[0376] 在一些实施方案中,靶细胞是哺乳动物细胞,特别是人细胞。靶细胞可以是体外细

胞培养物或哺乳动物中形成组织的部分的体内细胞。在优选的实施方案中,靶细胞存在于或分离或衍生自胃,肠,肝,肺,胰,胰岛,胎盘,或睾丸。

[0377] 在诊断中,可使用寡核苷酸通过Northern印迹,原位杂交或类似技术来检测和量化细胞和组织中的FNDC3B表达。

[0378] 对于治疗,可以通过降低FNDC3B的表达来治疗怀疑具有疾病或病症的动物或人。

[0379] 本发明提供用于治疗或预防疾病的方法,其包含将治疗或预防有效量的本发明的反义寡核苷酸,寡核苷酸缀合物,药学盐或药学组合物施用于罹患或易感疾病的受试者。

[0380] 本发明还涉及如本文中定义的反义寡核苷酸,药学盐,组合物或缀合物,供作为药物使用。

[0381] 依照本发明的反义寡核苷酸,寡核苷酸缀合物或药学组合物典型地以有效量施用。

[0382] 本发明还提供所描述的发明的反义寡核苷酸或寡核苷酸缀合物用于制造用于治疗如本文中提到的病症的药物,或用于治疗如本文中提到的病症的方法的用途。

[0383] 如本文中提到的疾病或病症与升高的FNDC3B的表达有关。

[0384] 优选采用本发明的方法来治疗或预防由FNDC3B的异常高水平和/或活性引起的疾病。

[0385] 本发明进一步涉及如本文中定义的反义寡核苷酸,寡核苷酸缀合物,药学盐或药学组合物用于制造用于治疗FNDC3B的异常高水平和/或活性的药物的用途。

[0386] 在一个实施方案中,本发明涉及寡核苷酸,寡核苷酸缀合物或药学组合物,供治疗选自癌症,诸如肝细胞癌和/或急性髓样白血病的疾病或病症中使用。

[0387] 施用

[0388] 在一个非限制性实施方案中,通过胃肠外路径施用本发明的反义寡核苷酸,缀合物,药学盐或药学组合物,包括静脉内,动脉内,皮下,腹膜内或肌肉内注射或输注。在一个非限制性实施方案中,静脉内施用活性寡核苷酸或寡核苷酸缀合物。

[0389] 在一些实施方案中,以0.1-15mg/kg,诸如0.2-10mg/kg,诸如0.25-5mg/kg的剂量施用本发明的反义寡核苷酸,寡核苷酸缀合物或药学组合物。施用可以是一周一次,每两周一次,每三周一次或甚至一个月一次。

[0390] 本发明还提供所描述的发明的寡核苷酸或寡核苷酸缀合物用于制造药物的用途,其中药物是用于静脉内施用的剂型。

[0391] 组合疗法

[0392] 在一些实施方案中,本发明的反义寡核苷酸,寡核苷酸缀合物或药学组合物供与另一种治疗剂的组合治疗中施用。治疗剂可以是例如用于上文描述的疾病或病症的标准护理。

[0393] 实施方案

[0394] 本发明的下述实施方案可以与本文中描述的任何其它实施方案组合使用。

[0395] 1. 一种长度为10至50个核苷酸的反义寡核苷酸,其包含与哺乳动物FNDC3B编码靶核酸具有至少90%互补性的长度为10至30个核苷酸的连续核苷酸序列,其中该反义寡核苷酸能够降低细胞中该哺乳动物FNDC3B编码靶核酸的表达。

[0396] 2. 依照实施方案1的反义寡核苷酸,其中该连续核苷酸序列与选自SEQ ID NO:

1,2,3,4,5,6,7和8,或其天然发生变体组成的组的序列至少90%互补。

[0397] 3.实施方案1或2的反义寡核苷酸,其中该连续核苷酸序列与该哺乳动物FNDC3B编码靶核酸完全互补。

[0398] 4.依照实施方案1-3任一项的反义寡核苷酸,其中该连续核苷酸序列与哺乳动物FNDC3B靶核酸的前mRNA(例如SEQ ID NO:1)中存在的内含子区至少90%互补,诸如完全互补。

[0399] 5.依照实施方案1-4任一项的反义寡核苷酸,其中该连续核苷酸序列与选自SEQ ID NO:1上的位置145-72824,SEQ ID NO:1上的位置72964-93844,和SEQ ID NO:1上的位置93920-147084的人FNDC3B的前mRNA中存在的内含子区至少90%互补,诸如完全互补。

[0400] 6.依照实施方案1-5任一项的反义寡核苷酸,其中该连续核苷酸序列与哺乳动物FNDC3B编码靶核酸的人前mRNA,诸如SEQ ID NO:1上的位置145-72824至少90%互补,诸如完全互补。

[0401] 7.依照实施方案1-6任一项的反义寡核苷酸,其中该连续核苷酸序列与SEQ ID NO:9至少90%互补,诸如完全互补。

[0402] 8.依照实施方案1-7任一项的反义寡核苷酸,其中该连续核苷酸序列与选自由SEQ ID NO:1的位置54366-54385,54407-54426,54448-54467,54489-54508,54530-54549,54571-54590,54612-54631;54367-54384,54408-54425,54449-54466,54490-54507,54531-54548,54572-54589,54613-54630;54368-54383,54409-54424,54450-54465,54491-54506,54532-54547,54573-54588,54614-54629;54366-54379,54407-54420,54448-54461,54489-54502,54530-54543,54571-54584,54612-54625;351016-351033;351016-351029;351016-351035;351018-35133组成的组的SEQ ID NO:1的靶区至少90%互补,诸如完全互补。

[0403] 9.依照实施方案1-8任一项的反义寡核苷酸,其中该连续核苷酸序列与SEQ ID NO:1的多于一个靶区至少90%互补,诸如完全互补,所述一个或多个靶区彼此相同。

[0404] 10.实施方案1-3的反义寡核苷酸,其中该寡核苷酸能够以-10kcal以下的 ΔG° 与选自由SEQ ID NO:1至8组成的组的靶核酸杂交。

[0405] 11.实施方案9或10的反义寡核苷酸,其中该靶核酸是RNA。

[0406] 12.实施方案11的反义寡核苷酸,其中该RNA是mRNA。

[0407] 13.实施方案12的反义寡核苷酸,其中该mRNA是前RNA或成熟RNA。

[0408] 14.实施方案1-13任一项的反义寡核苷酸,其中该连续核苷酸序列包含至少10个连续核苷酸,特别是11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,或29个连续核苷酸或由其组成。

[0409] 15.实施方案1-13任一项的反义寡核苷酸,其中该连续核苷酸序列包含12至22个核苷酸或由其组成。

[0410] 16.实施方案1-15任一项的反义寡核苷酸,其中该连续核苷酸序列包含12-18个核苷酸或由其组成。

[0411] 17.实施方案1-16任一项的反义寡核苷酸,其中该反义寡核苷酸在长度上包含10至35个核苷酸或由其组成。

[0412] 18.实施方案1-17任一项的反义寡核苷酸,其中该反义寡核苷酸在长度上包含11

至22个核苷酸或由其组成。

[0413] 19.实施方案17-19任一项的反义寡核苷酸,其中该寡核苷酸在长度上包含12至18个核苷酸或由其组成。

[0414] 20.实施方案1-19任一项的反义寡核苷酸,其中该寡核苷酸或连续核苷酸序列是单链的。

[0415] 21.实施方案1-20任一项的反义寡核苷酸,其中该寡核苷酸不是siRNA也不是自我互补的。

[0416] 22.实施方案1-21的反义寡核苷酸,其中该连续核苷酸序列包含选自SEQ IDNO: 11,12,13,14,15,16,17和18的序列或由其组成。

[0417] 23.实施方案1-22任一项的反义寡核苷酸,其中该连续核苷酸序列与同其互补的靶核酸相比具有零至三处错配。

[0418] 24.实施方案23的反义寡核苷酸,其中该连续核苷酸序列与该靶核酸相比具有一处错配。

[0419] 25.实施方案23的反义寡核苷酸,其中该连续核苷酸序列与该靶核酸相比具有两处错配。

[0420] 26.实施方案23的反义寡核苷酸,其中该连续核苷酸序列与该靶核酸序列完全互补。

[0421] 27.实施方案1-26的反义寡核苷酸,其包含一个或多个修饰的核苷。

[0422] 28.实施方案27的反义寡核苷酸,其中该一个或多个修饰的核苷是高亲和力修饰的核苷。

[0423] 29.实施方案27或28的反义寡核苷酸,其中该一个或多个修饰的核苷是2'糖修饰的核苷。

[0424] 30.实施方案29的反义寡核苷酸,其中该一个或多个2'糖修饰的核苷独立选自自由2'-O-烷基-RNA,2'-O-甲基-RNA,2'-烷氧基-RNA,2'-O-甲氧基乙基-RNA,2'-氨基-DNA,2'-氟-DNA,2'-氟-ANA和LNA核苷组成的组。

[0425] 31.实施方案27-30的反义寡核苷酸,其中该一个或多个修饰的核苷是LNA核苷。

[0426] 32.实施方案31的反义寡核苷酸,其中该修饰的LNA核苷是氧基-LNA。

[0427] 33.实施方案32的反义寡核苷酸,其中该修饰的核苷是 β -D-氧基-LNA。

[0428] 34.实施方案31的反义寡核苷酸,其中该修饰的核苷是硫-LNA。

[0429] 35.实施方案31的反义寡核苷酸,其中该修饰的核苷是氨基-LNA。

[0430] 36.实施方案31的反义寡核苷酸,其中该修饰的核苷是cET。

[0431] 37.实施方案31的反义寡核苷酸,其中该修饰的核苷是ENA。

[0432] 38.实施方案31的反义寡核苷酸,其中该修饰的LNA核苷选自 β -D-氧基-LNA, α -L-氧基-LNA, β -D-氨基-LNA, α -L-氨基-LNA, β -D-硫-LNA, α -L-硫-LNA,(S) cET,(R) cET, β -D-ENA和 α -L-ENA。

[0433] 39.实施方案1-38任一项的反义寡核苷酸,其中该寡核苷酸包含至少一个修饰的核苷间连接。

[0434] 40.实施方案39的反义寡核苷酸,其中该修饰的核苷间连接是核酸酶抗性的。

[0435] 41.实施方案39或40的反义寡核苷酸,其中该连续核苷酸序列内至少50%的核苷

间连接是硫代磷酸酯核苷间连接或硼酸磷酸酯核苷间连接。

[0436] 42. 实施方案39或40的反义寡核苷酸, 其中该连续核苷酸序列内的所有核苷间连接是硫代磷酸酯核苷间连接。

[0437] 43. 实施方案1-42的反义寡核苷酸, 其中该反义寡核苷酸能够募集RNA酶H。

[0438] 44. 实施方案43的反义寡核苷酸, 其中该反义寡核苷酸或其连续核苷酸序列包含缺口体。

[0439] 45. 实施方案43或44的反义寡核苷酸, 其中该反义寡核苷酸或其连续核苷酸序列由式5'-F-G-F'-3'的缺口体组成或包含其, 其中F和F' 区独立包含1-7个修饰的核苷或由其组成且G是能够募集RNA酶H的介于6和17个核苷之间的区域, 诸如包含6-17个DNA核苷的区域。

[0440] 46. 实施方案45的反义寡核苷酸, 其中该修饰的核苷是独立选自由2'-O-烷基-RNA, 2'-O-甲基-RNA, 2'-烷氧基-RNA, 2'-O-甲氧基乙基-RNA, 2'-氨基-DNA, 2'-氟-DNA, 阿拉伯糖核酸(ANA), 2'-氟-ANA和LNA核苷组成的组的2' 糖修饰的核苷。

[0441] 47. 实施方案45或46的反义寡核苷酸, 其中F和F' 区中一个或多个该修饰的核苷是LNA核苷。

[0442] 48. 实施方案47的反义寡核苷酸, 其中F和F' 区中所有该修饰的核苷是LNA核苷。

[0443] 49. 实施方案48的反义寡核苷酸, 其中F和F' 区由LNA核苷组成。

[0444] 50. 实施方案47-49的反义寡核苷酸, 其中F和F' 区中所有该修饰的核苷是氧基-LNA核苷。

[0445] 51. 实施方案47的反义寡核苷酸, 其中F或F' 区中至少一个进一步包含至少一个独立选自由2'-O-烷基-RNA, 2'-O-甲基-RNA, 2'-烷氧基-RNA, 2'-O-甲氧基乙基-RNA, 2'-氨基-DNA和2'-氟-DNA组成的组的2' 取代的修饰的核苷。

[0446] 52. 实施方案47-51的反义寡核苷酸, 其中G区中的RNA酶H募集核苷独立选自DNA, α -L-LNA, C4' 烷基化DNA, ANA和2'-F-ANA和UNA。

[0447] 53. 实施方案52的反义寡核苷酸, 其中G区中的核苷是DNA和/或 α -L-LNA核苷。

[0448] 54. 实施方案52或53的反义寡核苷酸, 其中G区由至少75%DNA核苷组成。

[0449] 55. 依照实施方案1-54任一项的反义寡核苷酸, 其中该反义寡核苷酸或其连续核苷酸序列选自由GaatttgctagtggtggtGG; GCTagtggtggtGG; AATttgctagtggtgGTG; ATTTgctagtggtgGT; TTatttctacagtttccAGA; ATTTctacagtttccAGA; CTacagtttccAGA; 和ATTTctacagtttCCA组成的组; 其中大写字母代表LNA核苷, 诸如 β -D-氧基LNA核苷, 小写字母代表DNA核苷, 任选地, 所有LNA C是5-甲基胞嘧啶, 且所有核苷间连接是硫代磷酸酯核苷间连接。

[0450] 56. 实施方案55的寡核苷酸, 其中该寡核苷酸选自CMP ID NO:11_1;12_1;13_1;14_1;15_1;16_1;17_1和18_1。

[0451] 57. 一种缀合物, 其包含依照实施方案1-56任一项的反义寡核苷酸, 和至少一个共价附着至所述寡核苷酸的缀合物模块。

[0452] 58. 实施方案57的反义寡核苷酸缀合物, 其中该缀合物模块选自碳水化合物, 细胞表面受体配体, 药物物质, 激素, 亲脂性物质, 聚合物, 蛋白质, 肽, 毒素, 维生素, 病毒蛋白或其组合。

[0453] 59. 实施方案57或58的反义寡核苷酸缀合物, 其中该缀合物模块能够结合无唾液酸糖蛋白受体。

[0454] 60. 实施方案57-59任一项的反义寡核苷酸缀合物, 其包含位于该反义寡核苷酸和该缀合物模块之间的接头。

[0455] 61. 实施方案60的反义寡核苷酸缀合物, 其中该接头是生理学不稳定接头。

[0456] 62. 实施方案61的反义寡核苷酸缀合物, 其中该生理学不稳定接头是核酸酶易感性接头。

[0457] 63. 实施方案61或62的反义寡核苷酸缀合物, 其中该寡核苷酸具有式D' -F-G-F' 或 F-G-F' -D", 其中F, F' 和G如实施方案47-56中定义的且D' 或D" 包含1, 2或3个具有硫代磷酸酯核苷间连接的DNA核苷。

[0458] 64. 依照实施方案1-56任一项的反义寡核苷酸或依照实施方案57-63任一项的缀合物的药学可接受盐。

[0459] 65. 一种药学组合物, 其包含实施方案1-56的反义寡核苷酸或实施方案57-63的缀合物和药学可接受稀释剂, 载剂, 盐和/或佐剂。

[0460] 66. 一种用于制造实施方案1-56任一项的反义寡核苷酸的方法, 其包含使核苷酸单元起反应, 由此形成该寡核苷酸中包含的共价连接的连续核苷酸单元。

[0461] 67. 实施方案66的方法, 其进一步包含使该连续核苷酸序列与非核苷酸缀合模块起反应。

[0462] 68. 一种用于制造实施方案65的组合物的方法, 其包含混合该寡核苷酸与药学可接受稀释剂, 载剂, 盐和/或佐剂。

[0463] 69. 一种用于降低表达哺乳动物FNDC3B的靶细胞中的FNDC3B表达的体内或体外方法, 所述方法包含以有效量将实施方案1-56的反义寡核苷酸或实施方案57-63的缀合物或实施方案64的药学可接受盐或实施方案65的药学组合物施用于所述细胞。

[0464] 70. 一种用于治疗, 缓解或预防疾病的方法, 其包含将治疗或预防有效量的实施方案1-56的反义寡核苷酸或实施方案57-63的缀合物或实施方案64的药学可接受盐或实施方案65的药学组合物施用于罹患或易感该疾病的受试者。

[0465] 71. 实施方案1-56的反义寡核苷酸或实施方案57-63的缀合物或实施方案64的药学可接受盐或实施方案65的药学组合物, 其用作用于在受试者中治疗, 缓解或预防疾病的药物。

[0466] 72. 实施方案1-56的反义寡核苷酸或实施方案57-63的缀合物或实施方案64的药学可接受盐用于制备用于在受试者中治疗, 缓解或预防疾病的药物的用途。

[0467] 73. 实施方案70-72的方法, 反义寡核苷酸或用途, 其中该疾病与FNDC3B的体内活性有关。

[0468] 74. 实施方案70-73的方法, 反义寡核苷酸或用途, 其中该疾病与FNDC3B基因的过表达和/或FNDC3B蛋白质的异常水平有关。

[0469] 75. 实施方案74的方法, 反义寡核苷酸或用途, 其中该FNDC3B基因表达与没有实施方案1-56的寡核苷酸或实施方案57-63的缀合物或实施方案64的药学可接受盐或实施方案65的药学组合物的表达相比降低至少30%, 或至少40%, 或至少50%, 或至少60%, 或至少70%, 或至少80%, 或至少90%, 或至少95%。

[0470] 76. 实施方案70-74的方法, 反义寡核苷酸或用途, 其中该疾病是选自急性髓样白血病和肝细胞癌的癌症。

[0471] 77. 实施方案70-76的方法, 反义寡核苷酸或用途, 其中该受试者是哺乳动物。

[0472] 78. 实施方案77的方法, 反义寡核苷酸或用途, 其中该哺乳动物是人。

实施例

[0473] 材料和方法

[0474] 表4: 寡核苷酸基序序列的列表 (用SEQ ID NO表示), 这些的设计, 以及基于基序序列设计的具体寡核苷酸化合物 (用CMP ID NO表示)

[0475]

SEQ ID NO	基序序列	设计	寡核苷酸化合物	CMP ID NO	SEQ ID NO: 1上的开始位置*
11	GAATTTGCTA GTGGTGGTGG	1-17-2	GaatttgctagtgggtGG	11_1	54366, 54407, 54448, 54489, 54530, 54571, 54612
12	GCTAGTGGTG GTGG	3-9-2	GCTagtgggtGG	12_1	54366, 54407, 54448, 54489, 54530, 54571, 54612
13	AATTTGCTAG TGGTGGTG	3-12-3	AATtgctagtgggtGTG	13_1	54367, 54408, 54449, 54490, 54531, 54572, 54613
14	ATTTGCTAGT GGTGGT	4-10-2	ATTTgctagtgggtGT	14_1	54368, 54409, 54450, 54491, 54532, 54573, 54614

[0476]

15	TTATTTCTAC AGTTTCCAGA	2-15-3	TTatttctacagtttccAGA	15_1	351016
16	ATTTCTACAG TTTCCAGA	4-11-3	ATTTctacagtttccAGA	16_1	351016
17	CTACAGTTTC CAGA	2-8-4	CTacagtttcCAGA	17_1	351016
18	ATTTCTACAG TTTCCA	4-9-3	ATTTctacagtttCCA	18_1	351018

[0477] *多个数指重复靶向化合物

[0478] 基序序列代表寡核苷酸中存在的核碱基的连续序列。

[0479] 设计指缺口体设计, F-G-F', 其中每个数代表连续修饰的核苷, 例如2' 糖修饰的核苷的数目 (第一个数=5' 侧翼), 继以DNA核苷的数目 (第二个数=缺口区), 继以修饰的核苷, 例如2' 糖修饰的核苷的数目 (第三个数=3' 侧翼), 任选地之前或之后是DNA和LNA的别的重复区, 其并非必然是与靶核酸互补的连续序列的部分。

[0480] 寡核苷酸化合物代表基序序列的具体设计。大写字母代表β-D-氧基LNA核苷, 小写字母代表DNA核苷, 所有LNA C是5-甲基胞嘧啶, 5-甲基DNA胞嘧啶用“e”表示, 且所有核苷间连接是硫代磷酸酯核苷间连接。

[0481] 寡核苷酸合成

[0482] 寡核苷酸合成是本领域普遍知道的。下面是可应用的一种方案。本发明的寡核苷酸可以通过就所使用的设备, 支持物和浓度而言略有变化的方法来生成。

[0483] 以1μmol规模在Oligomaker 48上使用亚磷酰胺办法在尿苷通用支持物上合成寡核苷酸。在合成结束时, 使用氨水自固体支持物切割寡核苷酸, 60℃, 5-16小时。通过反相HPLC (RP-HPLC) 或通过固相萃取来纯化寡核苷酸并通过UPLC来表征, 并进一步通过ESI-MS来确认分子量。

[0484] 寡核苷酸的延伸:

[0485] 通过使用0.1M 5'-O-DMT保护的亚氨基酯 (amidite) 在乙腈中的溶液和乙腈中的

DCI (4,5-二氰基咪唑) (0.25M) 作为活化剂实施 β -氰基乙基-亚磷酰胺 (DNA-A (Bz) , DNA-G (ibu) , DNA-C (Bz) , DNA-T, LNA-5-甲基-C (Bz) , LNA-A (Bz) , LNA-G (dmf) , 或 LNA-T) 的偶联。对于最终的循环, 可使用具有期望修饰的亚磷酰胺, 例如用于附着缀合物基团的C6接头或这样的缀合物基团。通过使用苍耳烷氢化物 (0.01M, 在乙腈/吡啶9:1中) 进行用于引入硫代磷酸酯连接的硫醇化。可以使用THF/吡啶/水7:2:1中的0.02M碘引入磷酸二酯连接。其余试剂是典型地用于寡核苷酸合成的那些。

[0486] 对于固相合成后缀合, 可以在固相合成的最后循环中使用可商购的C6氨基接头亚磷酰胺, 并且在脱保护和自固体支持物切割之后分离氨基连接的去保护的寡核苷酸。使用标准合成方法经由官能团的活化引入缀合物。

[0487] 通过RP-HPLC的纯化:

[0488] 在Phenomenex Jupiter C18 10 μ 150x10mm柱上通过制备性RP-HPLC来纯化粗制化合物。以5mL/min的流速使用0.1M乙酸铵pH 8和乙腈作为缓冲液。将收集的级分冻干以给出纯化的化合物, 典型地是白色固体。

[0489] 缩写:

[0490] DCI: 4,5-二氰基咪唑

[0491] DCM: 二氯甲烷

[0492] DMF: 二甲基甲酰胺

[0493] DMT: 4,4'-二甲氧基三苯甲基

[0494] THF: 四氢呋喃

[0495] Bz: 苯甲酰基

[0496] Ibu: 异丁酰基

[0497] RP-HPLC: 反相高效液体层析

[0498] T_m 测定法:

[0499] 将寡核苷酸和RNA靶 (磷酸酯连接的, PO) 双链体在500ml无RNA酶水中稀释至3mM并与500ml 2x T_m 缓冲液 (200mM NaCl, 0.2mM EDTA, 20mM磷酸钠, pH 7.0) 混合。将溶液加热至95°C达3分钟, 然后容许于室温退火30分钟。使用PE Templab软件 (Perkin Elmer) 在配备有Peltier温度编程器PTP6的Lambda 40UV/VIS分光光度计上测量双链体解链温度 (T_m)。温度自20°C上升至95°C, 然后下降至25°C, 记录260nm处的吸收。使用解链和退火二者的一阶导数和局部极大值来评估双链体 T_m 。

[0500] 实施例1-测试体外功效和效力

[0501] 在HeLa细胞中在体外实验中测试靶向FNDC3B (SEQ ID NO:1) 上的一个区域的寡核苷酸以及靶向至少两个彼此相同的靶区的寡核苷酸。对单一靶向和重复靶向寡核苷酸评估EC50 (效力) 和最大kd (功效)。

[0502] 细胞系

[0503] 自欧洲认证细胞培养物保藏中心 (ECACC) 购买HeLa细胞系并如供应商推荐的那样在增湿温箱中于37°C和5%CO₂维持。为了测定法, 如供应商推荐的那样在具有10%胎牛血清 (FBS) 的Eagle氏极限必需培养基 (Sigma, M4655) 中在96多孔板中接种2500个细胞/孔。

[0504] 寡核苷酸效力和功效

[0505] 在添加寡核苷酸之前将细胞温育24小时。在PBS中溶解寡核苷酸并以0.01, 0.031,

0.1, 0.31, 1, 3.21, 10, 和32.1 μ M的寡核苷酸终浓度添加至细胞, 最终的培养物体积是100 μ l/孔。添加寡核苷酸化合物后3天收获细胞并使用PureLink Pro 96RNA纯化试剂盒 (Thermo Fisher Scientific) 依照制造商的说明书提取总RNA。在多路反应中使用来自Thermo Fisher Scientific的FAM标记的TaqMan测定法量化靶转录物水平, 使用VIC标记的GAPDH对照探针, 设置为技术上一式两份, 生物学上一式三份。TaqMan引物测定法用于感兴趣FNDC3B (Hs00981550_m1) 和持家基因GAPDH (4326317E VIC®/MGB探针) 的靶转录物。在表5中作为对照样品的%显示寡核苷酸的EC50和功效。

[0506] 在GraphPad Prism6中实施EC50计算。在表5中作为对照的%显示最大FNDC3B敲低水平。

[0507] 表5: EC50和相对于对照的最大敲低 (最大Kd) %

[0508]

CMP ID NO	EC50	Std	最大kd	std	SEQ ID NO: 1上的开始位置
11_1	3.33	0.74	44.50	4.67	54366, 54407, 54448, 54489, 54530, 54571, 54612
12_1	1.28	0.33	45.95	4.35	54366, 54407, 54448, 54489, 54530, 54571, 54612
13_1	0.52	0.03	8.95	1.10	54367, 54408, 54449, 54490, 54531, 54572, 54613
14_1	0.40	0.04	0.00	2.03	54368, 54409, 54450, 54491, 54532, 54573, 54614
15_1	95.92	473.37	0.00	98.74	351016
16_1	10.77	22.78	0.00	42.83	351016
17_1	10.12	8.99	78.71	8.22	351016
18_1	1.13	0.08	41.12	1.15	351018

序列表

<110> 哥本哈根罗氏创新中心(Roche Innovation Center Copenhagen A/S)

<120> 用于调控FNDC3B表达的寡核苷酸

<130> P34401-W0

<160> 20

<170> PatentIn version 3.5

<210> 1

<211> 362038

<212> DNA

<213> 人(homo sapiens)

<400> 1

```

gcggcggcgg cggttgagg aggagagcgg cggcggcggg agcagcgaag ggggcggcag 60
ggatcctcca ggctgccggc tgggaaggcg tgggcgaccc ggtgtgtggc gcgcccagag 120
ccccgcgttt cagccctagg gaaggttaagg cgtgcaagag ccggggacta gaggagaccg 180
ggacccccgag cgcgatcgcc gggtccccgt gcactggaaa gccccggcct gacgccgagt 240
ccgccaaagt gcgtccctgt cccgggagcg ccctgggctt cccggcaaaa acttggcgcc 300
ggagtgtctgg ggcgccccgt gctcgcttgg gcacccccggg aacacgggac ccgggagggg 360
gcggcccccg ccttgctggg ctggggtccc ccgctgtgc ccctgcctc agggtttggg 420
ggagtgaag aaacgggtag attcctctta aaaaaattg ggcagtggct cgcggcctcc 480
ccccaccccc agccttccca gcagattttg tccgaggaat ccgctcccc tcccgaatc 540
tccgcggcag gaacgtgcc caggaggggg agggcgggcg gcgaggccga ggaatcttcg 600
acgtgtcact ttctgaggct gtagatttcc atatggtgga gggaagaggg cgggagtgcg 660
aagtggggct ggaagtggg gccgcctctc cgcgccggcg ggggcggtcg ggggcctcga 720
acccggggat gctcgcgggg aggggtcccga gcccgcgccg gcctggcccc cccgtccccg 780
gctgggcctc tccgggacac tccccgcccc gctgctggcc acctccgagc acgccacgtc 840
ctcctccccg tcctgcccc cgggctcccc ccgggctggg ggcggttaacc ggcggccgcg 900
gccggacttg gcgagccggc ggctggaagc tcgggcgggg gagcggggcg cggcggaag 960
gagcgggcga cccggtgtgt gggccagcgg agctccggtc agtcggtcac cccgaggggc 1020
gcctcggccg gggatagggc gggcgggcgg aatctgcgcc ccgaggcggc caggaggggc 1080
cgcgcggacc gtctggtgcc cgcggctggg ctggggccgg caggcgtggg aagggcctgt 1140
cactctcggc agaaaagtggg gcctcgggct gtgcccgcga actttcccag aggtccgggt 1200
cccgcgtcc cgtgggaacc ggaggaccgg ggcccgcgt ctcgggagac tgggctgcgc 1260
cgccccgcgg cgcttttggc ggggaggtt ccaggagtgc gcggtcggag ttggagcttt 1320
tggaatctca gctcccaccc tgccatccca gacgaaggga agcaatggca ttttatccag 1380
acagtccgt ttgcagactt ccttaaaagt tataactttt tgttttcttt tctcctcaac 1440
ccagcatttt atttaacaa aatttagaat ttggccgcaa tgggccaacg ctggggccaa 1500
aaatccacag gtttctctct ccatccctgc tggtttctag tccccctcc cctcttccc 1560
tcccaggctt aatcataatt tggaacgggt gaggtctttt gttgggtggg caccctga 1620

```

```

ttgcttgtct gtttatTTTT taatgtgcaa ctaatttgat ttgaatttcc ttcagtttcc 1680
aggccttcct agggaaagct aaggagagg gaatatgctt tttaaaaatc gttttctttc 1740
tttctttctt tctttctttt tctttctttc tttctcctt tctctcctt cttccttcct 1800
tccttccttc cttccttcct tccttctctt ctctcctcc tccttcttgt tcttggttctt 1860
cttctttttt ttttttttaa ataaatgtgg caggaggtgg ggcgttgga atggggaggc 1920
acgggtggtg tgggcaaaga gtcagaagga gcagacagac ccggaagaaa aggaatctgc 1980
tctggaataa cacttttttt ttgaggctc aggccttggg caaaattgct tcgctctgta 2040
atgatttctg ctgccggagt tgctcctcca cccctaagtt aaagctatga acctgggtgc 2100
ccgggcaacg cccacagtg gatagcagcc gggagcgtg gttttgtgcc ttttggtggg 2160
gcccttggtt cccctcatt ggagctgac tctgaaattt actggatcag taaatttcct 2220
ggctccctgg gagcagctgt taacgaggat aaagtctctg ggcatgtttc tggccctgca 2280
aaaggacctc acctatgaag gtacaattct cactttgttt agataccaga ggggcaccca 2340
caggctggct gagaatgagg catagttagt taaaaaaaa atcagtcatt acaaaattgt 2400
ttttaaacctc acacgtgctt ttaaagtgtt gtggttttaa ttactttaag ataaaaaaaa 2460
ttcatctgta aggatagcgt tcatttaaaa gatgctaaaa ctgcaggatc tcatcatgaa 2520
ataggagggt gtagcttcta attacagtat atacaatttc agaaagatat tccggtaatc 2580
ttttaataca gactttataa atagctcaca tcagacgatg ggttatattg gagagccagt 2640
cttctgcggt ttcttgaaga atgcttgga tctgtgagga agctctaggc ccttgagggc 2700
taggtagcag ttactcagt aggagtttgt gtccttttg ctcagtattt aacctggtag 2760
catttgatgg ataagttcat taggagctaa gtagaagaac ttaccacact tgtcagtttg 2820
gaaaatgagg cccgggaagg gaaagtact gtgtgagggt caccattata gacgaaagtt 2880
taatacagga ttgtgttaat agtcctttc tgggatatct gatgtgtact aagcactaat 2940
tcctgtgctt ttatacatta tctcattaaa attctagtat tttcgattta ggttggttta 3000
tgcacacttt acaacaagg ggattgagat ttacagagag agagtaactt gcataagatc 3060
acgtagctac caatggtgtc atccaatgga attttcttca gtgttgaaa tggttctgtc 3120
tgtgtgtcc agcatagcag ccacaagcca catgtaactg agtctttgaa atgtagctag 3180
tggaactgagg aacaacagtt taagttttt tttttttt tgaaatggag tctcgctctg 3240
tcgcccaggc tggagtgagt gcagtggcgc aatctcggct cactgcaacc tccgccttgc 3300
tggttgagat ggattctcgc tctgtagccc aggetggagt gcagtggcgc ggtctcggct 3360
aactgcaacc tccgcctccc ggattcaagc gattctctg ccttagcctc ccgagtagct 3420
gggattacag gcgcttgcca ccacgcccgg ctaattttt gtatttttta gtagagacgg 3480
gttttcacca tgtagccag gctggtcacg aactcctgac ttcaggtgat ccaccgcct 3540
cgggctccca gagtgtgga attacaggcg tgagccacca caccggact aagttttatt 3600
tacttgtaat tattttaaac ttaaatttcc acttggtgct agtggttacc atattggaga 3660
gcaaagtgtg gaacttttg actcccaaact ctttcacatg tagcttggtc atattgctct 3720
ttattttact ttgagacaga ctctcgtctt gttacccgg ctggagtgca gcggcatgat 3780
cactggctca ctactgtag cctccacctc ccaggctgaa gtgatcctct ccccttagcc 3840
tctccagtag ctggtactac aggtgtgcac gccaccatgc caggctattt attattatta 3900
ttgttttttt gtagagacag gtctcactag gttgtccagg ctgcatactg ctcttttagat 3960

```

```

ctcttagttc atttttcttt cttctacgat atcagaagtt acattcagcc cttaaagtga 4020
atttaaagac tgagtttagct atagctcaac tttgctttca tatgtagagt ggataaaata 4080
cgcacattat ttgttaactc tttggtttta aaaacaatgt ttacatgtca tagttaaaac 4140
tggtggaaaa atctttaaat tgtatctttt ttggtttaat ataggaattg tgcataaggaa 4200
ttgctgaaaa agtagtcaga acttgttggg tatttttagtg taataagagt acaaataagga 4260
agcaatatga aaagtcacta atagaaaagct gaaaaaaacg atcctctcat acccgcgctc 4320
atccgttcat tggacagttc ttttcagact ttgtaagtat cagtaaacca ttactcactt 4380
ttccttatgt agctgcagaa gtaacctgaa gaattaaaat tattctttta ctctcagtgt 4440
atagaaatca aatatcaaac acattggatt catccatgaa ttgggaagaa tatgtgtaag 4500
attaaaacag taagaaagat ctgtccgatg gcagatgttc aaatcatttt ctgatttagtg 4560
gatttaattt aaattcattg aatttttagag tttcatttgc taaaaggaat ttcaacaact 4620
ttctgatttt gtatggaata gtgaaaattc caactctttt tttttttttt tttttggtgt 4680
gctacctca ggaaaaggca aattataatg taatctcttt ttattaggat ttttaagagg 4740
caactgccag gttcagtata aatatactctg aatctattgt atcttcata gttatggtac 4800
tgtcctggga taattgcagt tcatagtctt aactctagac atatcctgga ggacctatgt 4860
ctgtaaatta tctttgaatt gttctatgtt attttagtgt tatgtgaatt acattgcttc 4920
cagctctttg aaaatcgta attcaactgc aggtaaggcg tcagttactg agactgttca 4980
gataactgaa acatcctgtt cataccatt cctgaccatt gggaccactg tactattttc 5040
aaggataaga taccactgta ctattttcag gataagaacc atgttataaa tagaattata 5100
gtgtcctagt gagtgtgaca aatataaggaa acatgattta acccatgaca tatggtttga 5160
ttttagtagc atccccaagt gcttaataca aatgagaaat gtactataat cttaaggcat 5220
aaagatgttt aaatgatgga caaaaattga gggccacatc tgagcatcag tttgaaatca 5280
gaatatctcc tctgtcaagg agtgacttta ctttctagct gggtccttga taagcttttg 5340
aatctctctg agtctgggtt tcctcatttt aatataagga ggaaagatct aactcgtacc 5400
ttttcaaatg gtgtcacaag ggattaatga gtcagtgtat tgagaagtgt ttggcaaagc 5460
cttatacaaa ctccatagtt cattatattc cagagtttaa aactgagctg gtgctatggg 5520
atttctctgc acattttcag agacctcaa attgtgcttg gacagtttga aaaatgattt 5580
atttttctct ttgtgatcag taaacaaggc ccaagcttta gatgttgtat tttattttac 5640
cccactccta atggaatagg tgatttgtga cctctgcaa gttgtactat acataagttg 5700
tcccatatct gtgtttttgg gaagctgggc tgtagctggg ctagtggtgc tgaagtgggc 5760
aggccaggct tgattcaggg ctgtttttga ggtggcggga aaaagtgcag tctcttagag 5820
gaacgttcag tactgaatga taaaggaata aggttttagg ccttgatatg taccttagcc 5880
tattacttga gctttcagca attacagctg agaatggaaa agaatcgtat tttcagtgt 5940
ggggagtctt tgcaacctac ctgcctttcc actttagaaa tcacaattgc cttttcttct 6000
tgtaacgag gtaatccat taagtgggat atttatatgg taagacatta ttttcaagta 6060
aattaattct cactcttaag gctgttgaga attcacttag gtggttgagg agaagctttg 6120
tacttttagt tactgagtgt ctctctctct ctctctctct ctctctctat atatatatat 6180
acactttgcc ttaaaaatata tattatgggt atggcattat gtgttgtaaa gagggagaga 6240
atgcttgaat tattgtggct agataggggc aggtagacaa gcacaggccc aactggaagg 6300

```

atgacttgat ggtagttgag cactttgcaa ggtacctcca gtgagatgcc agaccctagt 6360
 aacaagctca cctggagggg agtttgtttg tgggtgcaggt ttaatgtcaa ggaccagttc 6420
 ttggaaacag aaggfatgtg gggtgccagt tgaagatcag gggacagaaa tgtttttaaa 6480
 accaccaagt ataaatcaca taagatcgat agacagtcgt gatcagccat ctacatacag 6540
 atgaggatgt ttgtcagttt gaaaatggat cgattgttga atttttcttt gtttctcccc 6600
 agttaagata tgcaagttta gcattctgta agtggtggat cagaatttct gatgcccttg 6660
 gcactcacta ctcagtgta gtttagacat tggctcctaa ttttttttct ttttcttttt 6720
 taagatacag tgtttactg ctgctggagt gcagtggctc tatcatagct tactatggct 6780
 tcgaactcct gggctcaagt gatccttgag tagggctata gctaggacta taggttcacg 6840
 ccaccatgcc tggctaagt tttttttttt atttttatag agacagggtt tcactttgtg 6900
 gctcaggctg gtctctaact tctggttga agcaatcccc ccgcttcagc ctcccaaaat 6960
 gttgggatta taggttatga gccacettgc ccggccctgt tttgttttta taatatcatt 7020
 aaaatacctc atcagtttca aataaccatt ttgcagggtg gtaggggatt tttctgagat 7080
 ggtgttgagt cacagtgtta tttgaggttc tagtaagtat caaagtgtgt cttgtgttaa 7140
 atgattctat ttgagcttaa aatgtaattt catttcagtt acttgtttat tgactcagaa 7200
 tgcatttggt gagatctaga ccaggttctt tgtaaatgga atgttctact ctgttctgat 7260
 gtttttgga tcttgatag agaacagtgt ctaccaccaa actcctaagg ctggatgggtg 7320
 gtaagttcaa ctcttgcta ctttctgaaa tttgagaaat agtaaaattg gagcaccttc 7380
 aggctgtgtt agactttaag gcttctaaat tatattagaa tgtaaggata catctttgtt 7440
 ttgaccctgg aaagagtagt aaagattttc ataaaggcca actagtcata aaaacttact 7500
 taaattgaca tgatcctaac tcacaattat gaaaagcttt ctgttgaaat aattgtgtag 7560
 aaagtgatct ttatacatga acaaagggtg gatgttttag aaataattga agattctaag 7620
 atcccaggaa atataatggt ttaatttatt ttaagggtat ttaagattcc ccatagccta 7680
 tgaaagaggg gtctctatta aaaataacgc cattgttcta gatgtagcta attagggatt 7740
 tgcaattatc taggcaaggc taggataaag tttggctgcc tattctgtat gaaaaggttt 7800
 tactgtaaat atcaagttta aatagatctt aagaggaata tttacctaata taaaagaaca 7860
 aaccactttt aagcaccttg ggaaaatcaa tttacttaaa agcagtgtaa aaatgcagaa 7920
 tgcattcact gatgctggct tgctgggtgt cttttcatag agatacagga gcccttgaa 7980
 agtcagtgt ctctgtggat tgccatgaaa taaatattga ttgactcaat gctattatgt 8040
 gaactacaaa cagtttacca gcaatgggtg gaactatatt atttgcttgc aaaatacatc 8100
 acaacaataa acacaatatc tgctctcccc acccactcc actctaccaa tagactccaa 8160
 ctatgcctat ttattggttt tggagttttt ctattgacat ttgttttgct acttgtaaac 8220
 ttcttttgtc atgtgtaagc atttgatggc agattgggga cagcaggtgt taaaggttta 8280
 agagcatcat tattgctttt agcttcattt cttctgcctt tgtgtttggg caagattgtg 8340
 gagagtcctg agtttagtat ttagataagg taattacatg tccttctcct ctacttttac 8400
 taaagcaaga tcctcctggg cagcttagtt ccaggtactg tatgaacttg ccagtaataa 8460
 gagtaagttt cttttaaaag atttctggat attttacgtt ttatactcag tcaactcagat 8520
 gcgaggtttt ctagtatgtg tctacttagg ggtcagattt gaccagtttt taacagtaca 8580
 agttgtacat ataggatact taatgtattt ctaggatatt atgcttcatt ttctcttagt 8640

```

atttttaaagg ttttaaaaaa cccattctat accttctata tctttttattg ttttaagtcac 8700
tcaatgggaa agaaaaataat aaaagtcctt agatgctgtt tctgattttt cgatcatggt 8760
ttttttaatc tcaagaaaaa taattctgat taagaaatag aggtaaacat tattctgaag 8820
tagtgaatta gagaatactt aaatatattg agctggaatc cttgtgtatt gcatgttggg 8880
aatgttaaat gataaagcta ctgtggaaaa cagttctgta gttcataaat atttacacat 8940
agaattacta tatgattcag caattccatt cctattccta tacgcaaaag aaagcaggga 9000
ctcaggctact taaaagccag tgtttatagc agcattattg acaataccta aaaggtagaa 9060
acaacccatg cccatcaaca gatgaatgga taaacaaaat atggtattat atattggaat 9120
attttggtac agtggaatat tattcagcca taaaaaagaa ggcagttcta atacatgcca 9180
taacatgaat gaatcttgaa aacattatgc taagtgaat aagccggaca caagaagata 9240
aatattgtat atatccactt gcatgagatg actaggatag gtaaattcat agagacaaaa 9300
agtagaatag agattaccag ggcttggggg aagggaagat ggagagatag tgtttcatgg 9360
gtttagaatt tctgtttggg atgataaaaa atttctggaa atgaacagtg gcatgttgg 9420
tacaacatta tgaatgtatg taatgccact aagtgaatg cagaaaatgg taaatTTTTT 9480
gttatgtata ttttatgaca attaaaaaat gcaaaagtaa atattgaaga tgtatcctac 9540
acagtctcca tatgcctctt tactccccct tggctctgctt caggcaggta tatagttatt 9600
ttttcttcat ctggctgttg cagtgtaaat ggagatttcc ctaggccatt ttttgagat 9660
cagagagttt ccttatTTTA ttaactgact taaatttaag aggaaaatgt ttaaaagtag 9720
atctctggag gggaaaaaag ggcattTTTA tattgagatg aatcaggag tttgttaata 9780
ttggcagacc atgtaagcac atgaagataa tctatcctga atagcacagc gagtcattta 9840
gaaatccagt agtaggtgta cactcggacc tgtcacattt tctaaccttt aaacattgtt 9900
ttttgtttct tttttttgag atagaatttc gctcttattg tccagggtgg agtgcaatgg 9960
cgcatctcg gctcacctg acctctgcct cccaggttca agcattctt ctgcctcagt 10020
ctcccgagta gctgagatta caggcatgca ccaccacccc tggctaattt tgtatattta 10080
gtagagacag ggtttctcca tgttggtcag gctggttcca aactcctgac ctcagggtgat 10140
ctgctcgcct ctacctcca aagtcctggg attataggca tgagccaccg tgcctggcct 10200
aacctttaa catTTtattc attcttgaca tcattagtac tgtggaaaaa ctttgatttc 10260
tgtttaagag aaatggtgta agtcatctt gtactcatgt tggaaatgca ttaggtgtta 10320
gaattcttta gttccttaga ctgtaaaacc aagttacaaa agggatagag tgaaagaaaa 10380
cacataaatt ctgttttatt catctgaact tgtctctggc atctaattgat tgcatagtag 10440
gttctgctcc ctctgttttt tttttgtgag gtatttgatg ttgagtatag ttggatcatt 10500
tacaaaaaga tgggcaagat tttcattaag tgatgggata ccaaagccta aacgtcgat 10560
gaaaagtatg tatactcaaa atgtcagata aaaattctaa tggaaagatt taaattcaaa 10620
tgcaggtaa ttcttaagga aaattacata ccatttacta ccacaaaatg tttaccattc 10680
attccagaac tcctggaaaa cagtgtcaga ttgcaagggt gtgatagtaa tgtgtacatg 10740
tactctctgt gggatatatt tctttttttt ttttaagatg gtgtctcact ctgtcaccca 10800
ggctggagtg cagtggcacg atcttggtc actgcaacct ccgtctcctg gtttcatgtg 10860
attctcctgc ctgacctcc ggagcagctg ggattacagg cacgtgccac catgcctggc 10920
taatTTTTgt gtttttagta gagatagggt ttcacatgt tagccagact ggtcttgaac 10980

```

```

tcccaacctc aggtgatcca cctgcctcag cctcccaaag tgctgggatt acaggcatga 11040
gccaccacgc ccagcctttg tgggtatatt ttcgtgtgtg tgtgtgtgtg tgtgtgtgtg 11100
tgtgtgtata gtgtgtatat atactatata tactctttat atagtgtgtg tgtatatata 11160
ttgctgtata tataaatggc ttgatacaaa ttccactcaa tgagcttttc ataccatagc 11220
tgtcattttt gtggcctact aatttctctg gcggtaggat cattacggat atcaaaaggt 11280
attgagagtc atggtctcct catatccagg agtgatacga agaattatta cattgcattt 11340
agaatgctct taaatgattt tggcctattc aaaagaaaat gatctcccct tttctttgca 11400
tatccttggt atgttccaga gccatcattt tagataactt atcattttct tttcttttt 11460
tttttttttt ttggagatgg agtttctact ttgttgccca ggctggagtg caatggcgcg 11520
atctcggctc accgcaacct ctgcctcccg gtttcaagca attcttctgc ctcaacctcc 11580
caagtagctg ggattacagg catgcgccac catacctggc taattttgta tttttttttt 11640
ttagtagaga tggggtttct cctaacttaa cttttcttta aatatcttct agcactttat 11700
ctgtactttt cagaagactt gactttttca ttgttgctta atagtctcct tgtctccctt 11760
atttgtgagt agggatgatt tctgatttaa cttggggctt tttaatcgtg ggtacacagt 11820
aaatattcat ttgatggctg ggtagctgga tccctagttt gaatgtgcca tttaaactta 11880
gcacctttca ataagaatga tacagtggac tttggggact caaggggaaa ggttggaag 11940
agggtgaggg ataaaagact acaaattggg ttcagtgtgt actgccagg tgatgggtgc 12000
atcaaaatct cataaatcac cgctaaagaa cctactgtct ttggaacatg gcctatatatt 12060
gaggcatttt tgtgtttcca tgggtttctt cagtttttct ctcaaagtag ggaactaata 12120
aatatttaat tgaacaaatg aagatgaaag gcatgagtca cctgtagtgc aaacctagct 12180
ttttattcat tgctatttta aagaaatgaa tgttcttcag agaatacatg acttttttca 12240
tgtttctatt agattgtgaa ttgatttgga aaattcgaac aaaaagcagt atttatgttc 12300
catgaaaata tgggccctca attatgtaca ttttgtttgt ttattggagt cagttcaaat 12360
tataagttaa gggaattatt ttttaaaata atgtaacttt tcagagattt gtggtagttt 12420
taaagatcc tttttaaaaa taatctttgt ctgtcttctt cttttttttt tttttgagac 12480
agggtctggc tctgctgccc aggctggggt gcagtggcat gatctctgct tactgcagcc 12540
tccgcctcct gggctcaagt gatccttcca ccctcagcct cccacgtgaa tgccactatg 12600
cccagataat ttttgtgggt tttttttttt ggtagagatg gggctttgcc atgttaccaca 12660
ggctgggtctg gaagtcttgg gctcaagcga tccgcccacc ttggcgtccc taagtgtctg 12720
gattacaggc atgagccaca cctggcctta aatgatcctt ttataagtga aattctagaa 12780
aggacatttt aaggacaga aacctctctc tccccaaat gtgccttgct gagctgttgg 12840
aggcccagct gaaagagttg attctgtcca agtgttggtt agtgctaaac taagccatgg 12900
agaaagggtc aaagagcatg ctttggaag aacttgagga gaatgacctc agctatttgc 12960
agggggagtt aaagactgtt aagagaagaa tctcctggga cattataggg ctgtgtgttt 13020
ggagaggggc ggtgcctgtg aggtctttgt tcttttagatc tggggtggga tctggaaatc 13080
cttatcaagt gtttcaggtg aattatatga tcagacaagt ttggggaact cggagtggg 13140
gagttggccc tcttggtaat ctgtccctat aaggttttca atctaattgc tggaaagagg 13200
tgagaatagt gcttagatta aaggactcca gtaggagat agggcaaaat tgaaggtttt 13260
aatcatcata ttccttgag taaaatgata gccagctatt ggcagtttta tttagaaatg 13320

```

```

aggacacttt tgtgcactgt acttccaaac cctctgacca caaggcagat gtaaaataca 13380
gtaatagtgg ccaacaatth tccagcactc actacttgcc aggcatthtc atgtaaatat 13440
gtattccatc catatgtata ttctgtgtgt gtctgtgtgt atacatccat ttatctatat 13500
acaaacacac tttccttaaa aagtaattct ggaagatatt ctgtthttct gtaggtgttt 13560
ctagtgtcca ccgcagaagc tggtagatat tgagtgtccc cataagtgtt tattgagtga 13620
atcaaagatg agaaggcata ctcaaaaaca ttaaaaaact ttcctaagtc acttagagtg 13680
atthttaaaac tthttthttaa ctgtatcaca ctgcttctcg atagttcaag ttaattatct 13740
tatttgtatc tctagacttg gtacagtgtc tgtgttccca ggtggctgaa tactaaggct 13800
aaatattagc tgaatgcctt ccatgtgtc aacctgtcta ttgtctagaa aactaaaatc 13860
taggctgggc acagtggctc acgctgttaa tcccagcact ttgggaggcc aaggcaggca 13920
gatcacctga ggtcaggagt ttgagacaca cctgaccaac atggtgaaac cccatctcta 13980
ctaaaaatac aaaaattagc caggcgttgt ggccgggcacc tgtaatccca gctactcagg 14040
aggctgaggc aggagaatca tttgaacctg ggaggcggag gttgtagtga gccgagactg 14100
cgccattgcc ctgcactcca gcctaggtga cagggcgaaa ctccgtctca aaaaaaaaaa 14160
aaaaaaaaat cttctthtga aacaatattc tggacattth ccaagaggga gattthtcta 14220
gattgttctc tgtagtagca acttaagctt agaatgaaag aaaccagagg ataaaagtgt 14280
acttcataga aagtaatgta taagaagcac aatggagtga atgggaaaaa tttgagacag 14340
ttggttaaga aatggtagtg aagctthacc ttattcggac actthtaaca ctctatgaaa 14400
gggagtcctt ttactcactg gtaaaacagt tctgttcatc cgcagtgcct ttcatttcag 14460
ttaataagag taagatgtg tacctataat ttgcacctgg aaaagcaaat cctcctattc 14520
ctaatactaa ctgtthttct cthtttaagg ttaatactth taggttgtgt aggttgtacc 14580
caaggcagcc acagggatgg gatgagcaaa ggactagagg gtgtctatct ctgagaactc 14640
agaaagcagc tcctgcagtt aattaaaggt gacctcagga ttcagaggaa ctttgtgctt 14700
tcccagacgg cccaggctaa acctgggtag ctggcaacct taaatgcgtc cthtgtaga 14760
aatcatgtag ggctcgactc catctthaga aagttagttc actgaagggt agttaaggac 14820
aaggctctga agagcggcct gacttgctth cthtcttgtt gthtggtgag ggtgtagac 14880
aaagacacta agtgaagatg cagcccccaa ggctgtattg ctaaaaaacc gthtctggct 14940
tcttcacagg aatattcctc gtggtctaga aggagctatg tgcttctctg gagattgtth 15000
ccacagaatg gtgaggactg ttagaaccac cthtctctth ctctcctgtc tcaggaggga 15060
ggctgtaaat gtaaaaaatg cccctgaaca ggggggtagg ggtgtcagca cctccagaga 15120
agtgttactt aatgtgtggt gccacctga cctctctctc tatagttgga ggctggggaa 15180
gcctthgcct cthtccagct ttcaggactt gctgtggtag gtctcatga tgcagattac 15240
catagcactc aactacttct taagagtaca tagthtctta aatatcaata ttatactca 15300
agaggtaaag agaacagtht taagcatcta tcaaaggagg aatagattgt aaththtagga 15360
tctgagtgtt taththcctt atathththt aaaattgctt ggactctctt ctctctaacc 15420
tcacactthc accaccatca ccaaaattht cthtgththt atactcattt ttaataaat 15480
tactataaag tcagthaath ggagtctctt cggaagttca tctthaaaaa atctctcttc 15540
ththtaagtg aagtgggagg agaagaaatg gataacaatt thtaagtht ataththtatt 15600
tccggttht tthtagcaata catatcttaa tgtactatac aaththtcta ctaatgaaaa 15660

```

```

aacataatta tttccagttt tatttgattt tggacctatt ttcttgctat gtgattattg 15720
tcctgtatct ttaattacat cttattgaca cccgtggcaa tctcaataat tagaaaacat 15780
agcttttttag cttttacat ttgcttatta tattcaattt aaacaggga acagtgtcac 15840
ttcctgttta tgtttcactt tgcagttctc ttaaattagt tcagtgttct caggagtcca 15900
ttcaaacctg tgagggcata ctagttgaca aaaaagagaa cagaggattc aaataaatgt 15960
ctctaataga ttatttttagc ttcatattagt gtgattttgg gtctgaagtg tttgccatta 16020
acgtttctagt tgcattgttg tcttccttgc tttcgtgagg agcaggggca gtgggagtga 16080
gtaggggaga acaggcgatg gctaggggaag gatgtagcac tgatgaaggt gaggagtgtt 16140
gttcctagta tgtttctttt tttttttttt ttagacggag tcttgttctg tcgcccaggc 16200
tgaggtgcag tgggtgcgatc tcggctcact gcaagctctg cctccagggt tcaactccatt 16260
ctcctgcctc agcctcctga gtagctggga ctataggcgc ccgccaccac gcccgctaa 16320
ttttttgtat ttttttagtag agacgggggt tcacatgtt agccaggatg gtctcagtct 16380
cctgacctcg tgatccgccc gcctcggcct cccaaagtgc tgggattaca ggcgtgagcc 16440
actgcgcccc gcctgttcct agtatgtttc atgtgggatg gcaggttttc caaatcctag 16500
tttccactga gtcatcggtg agtccaatag aggaggatt ctagcctgat gtcagacgtc 16560
ctgcttggca gactaatgaa ggactttttt tttttaaaaa atgtattttt aacacagatt 16620
gggtgatttg tatacttca gtaagtttca gttttagcca agaaataatc tttcataaca 16680
tttttcatga gaaagcatag aatgattttc tagaaagttt aatggcaagt tgtgttagat 16740
gaaaaggaaa catttttaag gacactatgc ttcttgggta ttcttgagcc cttgtctata 16800
gataatagcc ggttacaatg tacagttttc atatttggag gggacatggg aaactactca 16860
cttaacttgg agttaatatt ttggtgctct ggaaacatct gaggtttgaa ctgtgctgtg 16920
cacatctcta actggtttaa ttgcccagtc tctcagtgtc ttagcactct cagtgtttta 16980
tgctcaatct ctgtgtcttg ttatgactat ttggctcaac gtagtgtttt gaactagtga 17040
ttaggaagtg gtagctgctg ctgttttatt attttattgc tttactctgt gactacagac 17100
agattttaatt gttggatgta tttcttaatg ggataattat ttaaaaacat tcccagttac 17160
tttaaaagcg tatgtgaata ttagccatca gttttgtctt gacctgcct ttggctcctt 17220
gagtgtctct gttcatgtga cagctttcca gctcatcctt aatgtcatac tcgagctgtt 17280
tatcttagtg aggtagtgtg ggcctaaaat gaaataatat atatcaaaag cacctgtggg 17340
ggaaagcaca tctgaatgcc aagcagtact tagttactgc aagtgtact tctaccaata 17400
tttttcttcc tttctgcccc tttaaagaga ggttgccct ttttaataga tatatgacag 17460
ctctgcttcc tttcttaagt ctaagatcaa agaaatgttg taataaaggg gagtactcc 17520
ctcccatcc tttctctctt ttgtggatgt tgttctgttt ttttaagagc atcaggtctt 17580
gacattagt gatgcagctg ttgggtccc aagctctgcc tttcatctct gggtcaccac 17640
tgcagacagc atccttcac tctgtcatgg tgtaaagaca ccactgtggg ggaacagtgc 17700
gttgcagggt aagtacatga agtatttcta gagatcctag ccacctttgc cgttcattgt 17760
tgtttggatg cacttttctt tgaaatgaca tggaatgttt ggcagagatg tcaatcaata 17820
gaagagtttc tctgctttag aggtacctaa acctaccaa cttcttgtaa attggaagac 17880
tagctccaaa aaagtaaaag gggttggggg gaagaacaaa acttttactg gcaggttttt 17940
ttctagacat aaacacagtt gaatggaaag gataataggg atcgaagcct gtcttgcctt 18000

```



```

atgagagtga atgagctagt gttagacttt aatgctggag aaaaataaca tctacctttt 18060
tttttttttt tttaaatgag gcagtcagtg cagtctaact gatgaaaatt aaaggtcagt 18120
ttcttcagtg ccccacctca gtgcatgcct tgggccatgt taataatgac aatcccatta 18180
tttccttgca gtaggcagga aatgctgtct acaccatta gatttgtttg agtggcccct 18240
ggctggaaat gaagaaaatt taattttcta atttgcaggg aggaaaaaaa aaaaagcata 18300
cagtgctaca tagaggttga ttcttgggct ggaaggagtg tcatttttaa aaacttgaaa 18360
ttctgaatct ctattattga gacatttggc cctaattccac actgaaatca tgtatggatt 18420
tacgtgcaag ttaggtgtct aggaaacctt tttaaatatt gtcagaattg gcacaattgt 18480
ggacgtttta accacatggt tgcaaaactgc ctagttgctc acatgtccca ctggctgctg 18540
gaaacttgct tgaaggaggg ctttgtcaga gctttctctc ggaatattag ttttgctttt 18600
cagaagcaac attcatgttg aagaaaatct gtatattcat tagggtaatc aattactttg 18660
tggtttcaat aacaagaaaa tattattagt gttacagagg aaaaaaatgt gaacctgtct 18720
ttgtacattc taatcatatt gccttgca ga gttacatttc ctaatcttag ggctgacttg 18780
gtttctgcta ctgttatgtc ctttaagaat gagatcctta attttctttt tttttttttt 18840
gtagcaagtt gatgtccctc ttacattttt cttttttata taagccaaaa gattttttatt 18900
gctattttga tatattatth ggttttattg gatgttctat tacagatcct cagttggtat 18960
ataattcatt ctaagatact caatatcaca ttttcccatg aaatacataa tgagaagagg 19020
accttaagtt gaaaggactt gcttgaaatc agaggagtat tagtagccaa tactacaaga 19080
agcagacatt cagtctttgt gtctagagga ggcagagtaa atcatctcat tttaatggat 19140
ctgtagtttc tattaaacag aacctgtcat attagcacca taacttccgg tcatatatth 19200
gttttgatth gactgtacat atagagcttc tttgttgctt cttgaaatga tatattggaa 19260
aaacaaggag tttctacat cttcatagga gcatatcaat gaaccaagaa agttttatga 19320
acattttctt ttctccgtgt cctaattccc aaaaccttta gcagtttgcc tagagcagtg 19380
accattttgc ctctgacatt ttgtttctgg tttcatcaa aaccaacatc ttccataatg 19440
tttattttcc ttatttatth gtcactatta atgcttacag gaagcagcaa agcatggaat 19500
tctttactth ttttaataagt gtagtactag tgtaacttat atgtgtgttt tgtagaaata 19560
cattttgatg atagcacgta acataatata tatttgggag cattttaaaa atattttctg 19620
aatttatatt tcacttaaaa aaaaagagtg aggtttctag tggcattttt gatattaata 19680
gtaagaagtc ctgtgatcca tacaccttc cagtgggttt ttggataagt ctgagattag 19740
ttctcctcag gactcctgac actaattgtt ctccatggca tgggggaatt tgaagcttat 19800
atataaagga cttaaaaaggc tttgaaaaat ttctcctgat actcggcatt tgggagtcaa 19860
aagtttgcat ctgaaaaatt gttttcttga ttgagaattt aggtttgaaa gtgactttat 19920
ggattattaa ctggccacct ggctctgtt atagattgtc tgacctatth atttgaaatt 19980
tatctagtat acttaaatth ggcaagaaat cagggcaca atacaagtta ggcgtattgt 20040
ttatttttct aagtcaataa cgcaattcat tttgcatgg aaaagtaatc atggaaaaca 20100
ttaataacctg atagactgta taaacttgct taacttttag cataatgata cttttttcca 20160
ggatgctgac cggatggtth tatgtaagga tgtttatcta tagtccagtg aattaaaact 20220
tttaggtaaa tagagggc at gtattactta ttcttagggc agttcctttt gaatgatttc 20280
acttattgag aactgtcatt ttgaaatgtt tcaaaccaat taggcatctt tagatctaaa 20340

```

```

tcttccagcc ttcagcttta gggaatacat atttggattt gcaagaatgt gaagatttag 20400
ccaggtagtc acttccattt agctgtgaga ggtcttcgga ctcaattgac tgggtgcttgt 20460
taaatatctg tttttttgga gaatttgitt ccctcccgaa gagagaaccc tcatagtcag 20520
tgggggcccat tgacaattct caaatactat cttttaggat tctcgtgact cagttttgta 20580
gtgaactttt gaataaatat aagtaatgaa agatggtaga ttttaatttaa aagtctagat 20640
tcttttagat gtcagtcagt cctgttgcta ggggtgggggg tggtagtggt gtgttccctc 20700
aggtgagagt gtagtggtgg tgggtgggcag agggtaagac acatttatga gttggcccca 20760
caccaggctt ttctctgtct tccctaggcc atgagactga ttacttacca tggtagagaga 20820
aaaccctaaa ggccccctcc acacttctca tttgcccttt agaagaccta gaagattgta 20880
ggaacagata gattgcatga actggtacct gaagtttagg gagccatcag ttcaatcagt 20940
agtagtattt atttgagtgt agctgtaaag atgcggcaag agaagaagca gggagatgtc 21000
taattcctct gtttgacttt cccactaaaa tctaaattcc ttgaaggcag agaccgacac 21060
tttctcttc tcttatatac agagactggc aaacagactg ctcagcaagt gtttattgaa 21120
tgaatgattt aatgatggag caggacatgt tgttttgaca ctgagatgcc atgtgtttga 21180
accaggtgaa aacttatgtt tgattttaat tttaaagaca tgttctaatt ataattctta 21240
ctattggagg catatggaac tttcaatcaa gaggaataac tgagatactt caaattatgt 21300
gaagatagaa aggtttttct tgttcagtca ataattattg cattgcagat aacagaaacc 21360
cacttaagct agtttaagca ataaaggttt gaggaaaatg aaggcagtgt ttctatacct 21420
cctgagctcc tggaaccagc cctgggaagt cactggaagc acaggttgca tttcatcttt 21480
tctttgctct tccttccctg atatttcttt ttgcagagcc catcctatat gaataatgga 21540
tgcttattct aaactcatga agtgatacca attttttctt ttaaaacggc ctgggtctgca 21600
cattactttt tttttttttt tttgagatgg agtctcgctc tgtcaccag gctagagtgc 21660
agtggcgtga tctcggttca ctgcaagctc cgctcccggt gttcgcacca ttctcctgcc 21720
tcagcctccc gagtagctgg gattacaggt gcccgccacc aagcccggct attttttttt 21780
atgttttagta gagacagggt ttcaccgtgt tagccaggat ggtctcgatc tcctgacctc 21840
gtgatcctcc cgctcggcc tcccaaagtg ctgggattac aggcattgagc caccacaccc 21900
agcctacttt ttaatagtaa attgaagtta tgggtgttag atatattctt tgcaagccgt 21960
tttgaagcag attcttttcc taatgtgtca tgtacaatct gtgggggaag aaggttatat 22020
aaagcaagaa tgacttctat tcaacaaaat agtgatatc tatattttcc tgtctctttt 22080
gtttctttct ttaaaaatgaa ctacagttag acatggccag attgatttct tcccttaaat 22140
tgtctcagaa actgtacca gtccactaat tgctttgttc agcggacagg aaatggttat 22200
atgtgcacaa gttacacaat cttaactaag tcggggcaaa gaaccaaaga gatctctgat 22260
ctttttttcc agcattaacc tttcagttcc acaaactaat gcatgatgca taaaccaggt 22320
tactagggga cacttatcaa aaaccataaa cttatttatc tgaatgactt tctgtttagg 22380
gatactaaga aaagaagtta cgtgaggtaa tcatgctggt gctgaggtta agtttgtgca 22440
gtttcacttc ttccttaata gtttttttat acatgcaata aaggacatgt ccggaagctg 22500
atcagtgcc gcatgaccat gaagtgtca gtccccattc cttctctcct taccctcag 22560
cccccttgca ggctatatac aaatttatc ttttctttt ctagggttg gaatttgctt 22620
cctttcttcc tgccccgtc tgttattggt ccctagtacc ccaatttctg ctacttttct 22680

```

cctccttctt tttttttttt ttgagatgga gtctctctcc gtcacccagg ctggagtgca 22740
ggggcatgat ctgagctcat tgcaacctcc gcctcgcagg ttcaagtgat tctcctgcct 22800
cagcctcccg agtagctggg atgacagatg tgtgctacca cgcctggcta attttttgga 22860
tttttagtag agatgggggt tctactgtgt agccaagcta cctgtcttga cctcccaaag 22920
tgctgcgatt acaggcgtga gccaccgcgc ctggccactt ttctccttct tgaaagtggg 22980
attttctctt tatcattgtt tgattattgt ataagtatta tgattggcat tttgcaattt 23040
gagcagagct gatattatat atggtatttc taagtacttt tttttttgac tctgccaaac 23100
tgttaagtca ttctccatcc atctatccat ccatccacce atccatccat cctcttctca 23160
ttttgacttc tattagttat ttctgaagc ccgtatatca ctgagaaaaa gttaatctta 23220
agtgaataac ttaggtcaaa atgagaggag aatgaagaat taagtgaatg taggcagagt 23280
cagaaaaaaa aatagtgtct ctctttaaag cattactttt tttgggtgat cctttgaagg 23340
aagtgaatt ggtgtatgat ctaatgtac aaaaccatat cttgctctca tagattttaa 23400
gatttctctt ttgaatgatc cattgtgtc ctttctttac acgtatcttt tctccctatc 23460
ttccttgta aatacathtt ttcgttatat acttttgaag caagtcttga tttttttgta 23520
ttttcccat ttttcttcaa atgttccaca gtccctaaa ataagatagc atttttgtct 23580
ttttctacag tctattcttt gctgtttact tcatccccac ccaccgccac caaaaatgcc 23640
ttcagaaagt ccctacctt tcttgtacat tgtccttctg ttcagattct tgtatcgctg 23700
atactctccc ctgctacca ttctcctccc aacagttttc tttgatagtg atatctgcct 23760
tggaatttcc actgtgcctg ttaaactctt tgagaaggat aattctgtca acgtttactt 23820
ctcttcccct tctagcccca aagactgagg acagtgtcct cctcatgcat tctgtgacg 23880
aggaatctgc actgaggttt ctactctttc ccttaccagg attctgaatt gtctgtgact 23940
gtctgatatg attgctgatc tctttcctgt tctcagatag gacacaaggg gttccattcg 24000
gagttggctc aggacattca gatgccatta ttttagtaat gatcacatga tgttttgagg 24060
gcagcctgaa aaaaatagag tctctaacag aggagctggg taaaatcaga gtaggacat 24120
ctctaattgcc ttttctagct ctcttactct gattttgtga atttatcctt aggacagtt 24180
tttcatcagg atgagaccct gctgtggtct gaatgtttgt gtctctctcc cctcaccaaa 24240
tttatttata tgttgaaatc taaccccaa gttgatggtg ttaagagggt gggcctttag 24300
gagacagtta catcatgagg gtggatccct catgaatggc attcacgcc ttataaaaga 24360
agcttaaggg ccagggtgtg tggtgcgaat ctatagttcc agctatatgg aaggctgtgg 24420
ccgtgagaag attgcttgag gccaggagtt tgaggctgca gtgagtgaat aaccctgca 24480
ctccagcctg gacaacatag caagactctc tcttaaaata gatagataga ttagatagac 24540
agcctaaggg agcctgattg cccctccacc atgtgaggac acagcaagaa ggcaccatct 24600
gtgaaccagg aaaggagccc tcaccagaca tctgatttgt tgggtgccttg attttgact 24660
taccaacccc gagaactgta agaaatgaat ttctgttgtt tgtaattacc caggctaagg 24720
tattttgtta aagcagacca gatggactaa gtcagcccca taatgacccg ttttatattt 24780
ttatttataa tctatctgct gcttaatttt gtgattagtg gccagctact gtttactcat 24840
cttttattca tctgtaaaac tctttttaac ttgtctttgt aagaaacggt tggctaacag 24900
atgaattttc aggttgttca gttttaaaat gttttactta aaagggtgaag acaactcccc 24960
aatgcaaagt gtgacttcag agataacttt catttctttg aaatgtagga agtccatagc 25020

cattgctggc tgacatcttt ctgctcaata tgctccaggg gaagattatc aaatttttagc 25080
ttctgagctt tcaaattggct cttattatca gtggcatatt acatgaaact ggttttgggc 25140
tcttcaaatt tataattttg gcaaagggtg tgggagattt gatttcattc gtcactactg 25200
cagtacctgg cgcatagtag gctctccatt tgggtgtgtg gatgaatgaa gaaagtgatt 25260
ctgctagtca gtgggggtta aaaacaagtg tccaccaact taatgggtcc ccattgatcc 25320
tgagttcacc tctgttgccc tgtatatatg tgaccccatg tttattgcaa ctttatgggc 25380
atctcaggca ctgcagagaa cagcctctta aaatttctgg tagaggcctg gtgcgggtggc 25440
tcacgcctgt aatcccagca ctttgggagt ctgaggcgga cggatcatga ggtcaggagt 25500
tcgagaccag cctgaccaac atggtgaaac cccatctcta ctaaaaatat aaaaattagc 25560
cgggcatggt ggcatgcacc tgtagtccca gctactcagg agtctgaggc aggagaattg 25620
cttgaacctg ggaggcggag gttgcagtga gctgagatcg tgccactgca ctccagcctg 25680
ggtgacagag ctagactccg actcaaaaga aaaaaattt ttggtagact cctatgtgcc 25740
atctctggag aactgaaata gtagtggaca tacatagatg tcatttttagt gtagatatga 25800
cttttttagtg aaacttgaag tcctacttcc tgtgtgtgaa atagggtaat aggatcacac 25860
ccgaagaaat gccgccttgt tcaaaagtga caggatcgct gttcagtttg gaatattgga 25920
aagtgggcag gtttatttgg aagcactttg tttttactat atgtgtaaaa ctccagggag 25980
cattgaatag gatattgagg gctccctttg gctgtgcatt agcaacgtgg cagttactga 26040
tctgtcattt actttgaaaa ggaattacaa agttttggcc tcatgcctgg agtagctcca 26100
gatggtcaga aaagattttt gtactgaagt cagaaagtat attgcagtga tagaattggg 26160
cttgtcatgt ttatattaga aactggctt cccactttat tcctctgcaa agtttttctt 26220
tctttctttt ttcccagaga gtgaggggag gaaattgttg ctttagagtt atgagtctaa 26280
tatttggaat actgttggtc ttggtgataa tgatgtagag gtatgattat gtggttaatg 26340
tagttacttt gtcaacctaa ataccctga ttcttagtat ttacaaagga tgcatgaagg 26400
cttggaatgt agagatacac caagaccatt gtagctgatg tagaaatgca ggtaagaagc 26460
ttcatttggg ttgcgtttgc ttgtctgata acctggctgt tagcccacaa ctgttattta 26520
gtagcttacc aaacttcac tgttctgtct tcccatgatt ctgtggttgc taggggtaat 26580
gatgacgttt ggggtgtcaa tatgggtggg aggtgggcct ggggagatga gcagtgaggc 26640
gataatgata ctaacaccaa gttttgcat ttaggcatt agagcatctt aaattccaca 26700
tatgatcttg tgtacctca tatcaaccct ggaaggggaa cgatgtgatt cctattttcc 26760
tgatgagaaa actgagactt tgggaggtaa tatctgcccaggcaatatc taggtaactc 26820
ccttctgcag cctgtttaca tatagttttg gcgaaaatga ctacaatttc ctgtcctttc 26880
aggacagagg tggctacagg cttcaggaaa taaagctcat tttcctctgg gaaactcagg 26940
acttgtctgg gttgagccat ttagtaaagc ttggtcacia ggctcagatt aagacctgga 27000
tctacgtgct gctgttccca gactgtttc agttactctt gtggttactg agtaacttgg 27060
gagttagaag aacattaaca aagttttgtg ttttcgaaga aatgctaca catggagaag 27120
tgacactaag ttgcatactt cagaaaggaa tttttatctg ttttgagatt ctggtctata 27180
cattgaaaat gaactaattt tgattattat acttttaatt ggttgcacga gtgtgtgaac 27240
ataggcagct cttttgaagc acttttactg aaaagtgtaa aaatttttgt tgctgttgtt 27300
cagtagcaga catatacaat actctctttt tgagacatac acaatattct cttattgttg 27360

```

atttaggggt cttgtaccag atcacccttt tctcagattg cagctcttcc tccttgcttt 27420
atgtagagtg gtttctaact tggttctttc tcctgtgcag atataagact tgggccgcag 27480
tctcctaccc tcaccagtc ttccatgagc tatcaaaatc ctcctctagg cttttattat 27540
tttgcttcct aattttgtcc ttttaaattt ccactgttta gatattattc agacagcagt 27600
ggtatttttc tgtatataat gtggcgctgt aattagtttg agttcttttg gggttgtgtc 27660
ttaaacagcg agaatggcct gattgatgtg ctttttgaag tcttactacc tttttgatga 27720
gaaggatgaa agtgggtgtg agatgagttt gtctggctta ctgtaaactt gatctgtgag 27780
gcttttctgc gttcactaag gcaccagagt cggactctgc ttttttctt gtttgatgtt 27840
actttattac acttatgaat gaaataactaa tgctgttatt ttatagaaga tcataaaata 27900
aaagtacact ttcttagtgt tttatgtttc tttaaaaaga taattaccgt gagtcataga 27960
gctacaatta catcaagagt ttctatacag aagcaaagtc tctgggtgggt ttttggtaca 28020
gtctttgcac ctggatcagt ggagcaaaat gtcacacac ttgaaaaaaa aattacttaa 28080
caggccccatt aagaatcttc agaagtttgc atcttgtagg ggatttgttg tccaagagtt 28140
agtactacag aacaggctct tttgtagacc tagggaaacc agtttgtttc tctgccactt 28200
aacctgcaag acttattata ggtgtttcct tctcctgtct gttttgaaga gacttctctt 28260
gggaattaat ggtagaatac ttatgactcc tgagagcaga gaacgttcag gccatcatca 28320
tcttctccct ctgggctgta catggcctcc ctgtgtctct actgcctgtc atacctcccc 28380
actcctccac ctcagtcaca gggcgactgc cttgctttcg gtctaccttt cccaactctt 28440
caggctcatc ctgggtgatc ccattctgta gccctgtctg ctcttttcag gggattctat 28500
tttgtcttat acacttttgt catttagtta cccacctatt cccccagtg gactcccatt 28560
ctgggctcct gcagagggct tgtaagttca cttttatct cccagggtca gagctgatgc 28620
tctgccgagt gaatggggaa gcgccagaaa gaacagaagc taatgatgga ctggctcgac 28680
catggctccc actttcaata ctcatccctc tgtttctca gacattttac ttgaattaat 28740
tttgtagttc tccttctgaa ctgctgagca agtatttgga cactttgtga ggagcctttt 28800
tttttttttt ttttgagatg gggctctact ctgtctccca ggctggagtg cagtggcaca 28860
atctcgtctc actgcagcct ccgccacccg ggttcaagca attctcctgc ctcagcctgc 28920
tgagtggctg ggatcacagg cttagccac cacgctctgg taattgtttg tatttttgga 28980
agagatgggg ttccaccatg ttggctagga tagtctcaaa ctcctgacgt cagatgatcc 29040
acctgcctcg gcctcccaaa atgctgggat tacaggcatg agccaccgtg cccggccaga 29100
ggagccctca tttatagcaa gaataaaaac attttgtcag gaaatttaat aataagccca 29160
gactgagtgc ttgctatgtg ccagacactg ttctaaatgc tttacatgca tttcttcatt 29220
taatcctcac agtgtcctga attaggtgct ttattttatt atttccactt tgccagtga 29280
gaagcagagg tagtgagagg gtaagcaact tgctgaagt taaaagctag tcagttgtgg 29340
acttaggggt ttagccagg cagttgtggt cttcaggag gggacataac atcattcccc 29400
tcctgaaact ccatattcct ttgtaaatct tattctgtgt tacatatatt cctgtccttc 29460
atttagttat ttaggtcagc ttctgtact tctgtgcaa aacgttgctg tcaatttact 29520
tgacctggta acctcccgt gagtttcgcc agggttcca gtcaatttag caggtcactc 29580
tagtacctgt gggagggtga gggcatggaa tcctcaggag agggctctgc tgttggtgc 29640
tgtctccact tgaagtggac agttttgaat atcttaataa aatcaaactg gatgttctta 29700

```

```

ggtattcatt cattttattt tcctaagcaa aatgttttgt aaaatgctgc ttttacgtgg 29760
ctagagccac taaatatctc tattaatact tttaggcaaa ggttgagatc tttgaagaat 29820
tagtggggtt taaaaattta cttattttta ttttttaatt ttaagttctg ggatacatgt 29880
acagaacgtg tgggtttgtt acataggtga atgagtgggt tttttaagtt gtttttgcgt 29940
gccttttagtc ttactggttt gccttagttt ctctactctc cagactgctg tgctgacttt 30000
tcatagctat ctgacttttc agtccagtgc cttttgatg ctctggccag gtggctcttg 30060
tttcagcttc actgggaggg agttgtggaa tctggctgac aatcccattt agtcttcttc 30120
aatttaattg gccttttccc ctttcagatt ccaagtaggg gaatagccta aagccatttt 30180
aggggggcta ctaaagcagt ttacaaggtg atgccttata tttaaatacc accgtatttc 30240
caaatctgtt tctattatat atatcgttta ttgtagcatt ctcacagtga ccctgtgggtg 30300
tgaacacagt gactattatc ccagttttca gatgagaaaa cctagtctga gagttgtgtg 30360
cctttcctta cttagggcac tgtggcaaat aaaggagaa gtcaagctac tgcttccatt 30420
ccagtctctg aattccaggt ccctgtctc cttttcttcc cagggcattg atgatgtctc 30480
aaggttggtt aacctctaatt tgaaaatctg taggtgctta tcttctgcac ttttgaaatg 30540
atatgaacgt gaaatatttt caacatgcta acatttttcc aggccgttat taggggatta 30600
aatcatcctg ttaccgtaac tgcaatttta gatgttctgg tgctaaactg agatctgtca 30660
atagagtgca acctttcgaa agtcttaaaa aatagggtac atcttgact caagaattat 30720
gatatcaaaa taagaccctt ggctatttcc ggagtgtgtt agccaatcta ccctgtgggtt 30780
ttctttctct ggaattgggt aagaaagaga taaacaagat ccaaaaccag gtcgcatgaa 30840
aggatcaaca ctcccctgga catacagttg tttgggataa tcgtaaatec tgctgtctgt 30900
agtggctgac gaggggagaa gagcagaatc ctagcactcc ggctactgac tgtgaaacta 30960
atgtatcttt gctatcacat atttagcatt taccttttac tttagccaa aaacacctta 31020
cacttttctt agatgagctt tttaaaaaca ttgtaattta tgaaaaaat ttgaacatag 31080
acaaaagtag agaatagtag tggatcccc tggacttatt acccagcctt gacaatcaat 31140
cagctcgtgc cagtcttgtt tcacttttac ccgttttcat tctctgctcc ttgctgtaat 31200
attctgaagc aaatctcagg catattatth catccttcaa ttttccagta ttttttccag 31260
ataagttctt tcggaaatat attttcatct aatttaaaac aaaaagttht caggaaaaat 31320
acaggcattt ttgctgcaaa aattggtcag gattatgcaa tttctaacta atcagcattt 31380
ttcaaggtta ctggttttgg ctgacaaaat ttttttctt atatgtggaa aaaattattc 31440
acagtaacaa atgcgtgttt tgatagtgtt aaaaattagt ctatttttca gacttaatta 31500
ttcaattaaa aaataagaca cttcataaac tttaaaacta ttgtgtagaa acacactgtt 31560
cttcagtttt atgtgttttc agtcattata tttccagct atttcaaata ggctaaatat 31620
agtataccct aagcttactc aatcgttagt ttagactcaa ctaatttgga attttcattg 31680
agttggatat aactttaata gcaggtttcc attcaagcaa agtatttgct aattgcaggt 31740
gattattaag gcaaagtctt aaggatttat agaataagta aatggtttta tgggctcatg 31800
gatctttagg tatatatata tttatacacc ttaatggtat gaatttagcc tgacttgga 31860
aaactaacct ggtttatatg tgtatatagt ccattaattg attcactaaa atttttatth 31920
tgttaaaaaat agtgaaataa aatcagaatt aatttttttt tattctctgt gaagagtctt 31980
atgaaagggtg gtcagattta taagtcagat tgtggctagt gaatcttagt ttttctctca 32040

```

```

aatacctcaa gacagcatgg aggctggttg tcacacacat tcaaaggaac aaaatactta 32100
ttagctaaaa aagggtatgc acatttttgg gggctttgaa gcatattgta gggcttagta 32160
ataatgacag tgaaaattaa catagcgagc acttccgtat gaagtcattt tctcattacc 32220
atggctcttac gaggatagat gttgtattta tccttgtttt acagatagaa actgagacat 32280
ggagagtga gtaactggct ccaatcccag tgctaagtgg tcaagccagg gtcagaattg 32340
taacagttga gttcatgagt actggccctt aacaactctg ctggagtgcc tcctttgggt 32400
aaatactagt agttcatatg tcggaaactc atccttcatt ttcttcaatg aaaatacggc 32460
attttacagc agtgctgtcc aatagaattg ttgaaattat ggaaataccc gcgttatcta 32520
gtatgcgtat gccattagat cacatgtggc tgttgattac tcaaagtggc ctagtgtgac 32580
tgagaaatag aattcaaggt tttatttaaat tttaagtaat tttaaatttaa atagttacat 32640
gtagctagt gttctagtagc tggacagaga ggctatagag tttagagagac ctggggagaat 32700
ttgtagtttg cgtttcctgg ggtaatgaca atatcttggc attttgtggc tatcagtatc 32760
ttgacctcgt tagggttgtc agtgaatggg tgtgtcatga aatagtaata atgttaataa 32820
aggtgaaatt ttacaaaagt ggataattga atgtttaaaa ctgtgatgcc taacaacaaa 32880
atcctgtttg atcaccaacc tgggaaatcc acagtctacc gcactctggag gcactcctctt 32940
gttaattcct ttgtagccaa gcaaaaactg ctttgacatt cccgcatgat tttcagcctt 33000
gtagatgagt tcttgctttg taaagagtcc agcttcttgg tcaagcttaa cattaggcgt 33060
gatgataaga tagtaaaatg gactttgtgg gccaaaagca gccattaaga agcaagtgtt 33120
taactcttta tctttctcct acagcctgat gttgacagag ctcccatcta tgaaaataca 33180
tcaagaaaac tcagtggtaa tgaagctaga tttcatttca aatgacactg aggccacata 33240
aacggtgaca ctgatgcctc ttatgatgtg ctttcatcta agcctttatg tggcacttaa 33300
gtctaattat tttaattttt tctttgtgtt gatgaaaagg gccggagtag ttgtttccac 33360
cagccatggg ggggctctga aatggaagca agcaaagcct ccagatgggtg gcaggtattg 33420
gaccatagcc accctgcaga cataattaaa catgtctgca gccctctcat ttagcagtta 33480
taacacagac attttctttg ttgatgggat tgaactgtta ttgtagcat ttatgtgaag 33540
gacttgcagt actatagcca ggtgctatct ctcagctact gtgttaaaca ctgggccttg 33600
aactctgctt tgaaaggttt ggagagaagg ttcttcccaa cattgggaat gaacatgggtg 33660
gttgggggtg tttcagcagg tcctgtttgc ccactttcca tttgtaattc tcaagtgtaa 33720
cagttcgaat gtagagactg gctgtgaaag tggattggga ttttaagaca aaaagtattg 33780
gacagcaggt gaaacacact tcgttcttgg ctgcagtacc agcttctgtc tgaagttagg 33840
taaatacatt agttgctgtg gactttgact ttcttcagtt ggcaaaacaa cctttgggag 33900
gggaaaccaa atatcactag aaagtgattt gacttctcga aaagacaatt atggttttatt 33960
tgtgaaataa aaggtagttg tgatgagtga gttcccgttt gctgtatctg cctccttgcc 34020
aataaacttc ccatttacac ttttaatgat gattcaaaga gcagatcagc attatgtaaa 34080
ggcatttttg atgaattagt cttatgcatg tccctatatg gtatattctg tagttaactg 34140
ttttcattga acctttacaa ctgactccac cttacaatgg gtgcatgatt ttgtagcgta 34200
agtttactac ctgacctgtt ttcatgtcct cttcactgag gacaaaaaaa aaaaaagtaa 34260
cacttttctc ttgtgctttt tctcccctga tcccttcccc caccacatga cccttaagaa 34320
atgttgtcct ttggaagcc aggtcatttg tctgaattta ggagaatgtt gagttgcatc 34380

```

```

ttcaagaaag ggatgcaaca caggatgagg actgtggagg aagactttct ctgagtaaga 34440
ccttgcaaaa catagattga aatataattg tctgcaaag aattgacaag tggtggaccc 34500
cattttttcca ggcacttgat tgaaaggctg cttctagcct gagggaggtc ttgatgatgc 34560
tacattattg cctgtggcca ttgtgagtgc cactgagggt gccctcttgt gtgcaagtag 34620
ttgtgggtcc acaattccgc taggctagta ttcagaccta attctctgct tacagatgct 34680
gtgaattccg taactcagaa atgtgtgctc acaaacatca aatcagcctg tacacagata 34740
catagagcag ccatgtatca aggacttaga atgactgctg atccttgaac tcttttttaa 34800
aaaggaaaaa ttagcacaag gttaaaaact aaagacatca gattagttct gtttaacagc 34860
aacctgttac ttcgtgcttt tgcatgtcag cagcttgctc tagagtcagc gagattttct 34920
gcttgtgact taaagaatct tgtcttttgg ctgtagagta tgatttcatg gtggaggatg 34980
ttgcagatat cttagtttgc tattttatag catgggttat actttaaggg ctgaaaaaaa 35040
taaggtaatt taagcctgtt ttgagacaca cggaaaggaa gctatttcat aactatcagt 35100
catgtgaaat ttggcaggcc cctagcccgt tagtggccac agtcacatga ttgattaccg 35160
gttggggacc cacagttagc ttattgcaga actgcatctg gcataattgg tgttgtcatc 35220
cagtgtcaaa ctatccaccc tgttctgcca acttccttcc aataacaaaa ctttcttgcc 35280
ttgcacgagt gaaagcctgt gtgattgtat gtgtttagaa ttacagagtt ttaaacaatga 35340
tccaatcaca actatttgaa cttcttgatt ttagtacatt tgtacctatg ttgccaaaaa 35400
catttttttc cttgtctttg tgtcttctaa aacattgaag gaagaggtct ttgatgcttc 35460
cttaataact ttatcatgtt tgaagtcctg agctctataa ataatatagt ctttattatc 35520
tttttatctt gataatttat aaaactgact gtccaaagat atgtacgata cttgtagttt 35580
tatatcaaag aattttaaat gccagaacc agggaagcca tctaattctc cattcgagct 35640
agtgccgaga cctactggac aacatcttga cacttggcca ttggcctgtg ctggaggcat 35700
gatattctag tcctgggtct gcctctgccc gccagtttgg ttttagatct cttcattttt 35760
gtgattaatg atatgaaaaa gttggaccaa gtggtcactt aggtttcctt cagtttttga 35820
tttctgtatg aagatataga aatatcccct acacgtcaac aacaacaaaa atgggaatta 35880
accgattcct tctaaaagct gaaggctcct tggcagtgga tattgaccct tcaactttta 35940
gaaggaatca gttaattttt tgttggtgaa acatgtctca tttttatatt gaggctaaat 36000
tggcatggtc agagataggc ttctatagca ctatttttcc acatattttt gagtggggca 36060
cacattgaga aacatatatt acattgtagc ccagtaaaca cacacacaca cacacacaca 36120
cacacacaca cacacacaca aacatttata tacatataac tgaatcaaaa gtttcacaaa 36180
tcaataacttg cttttttcct ttgtgatgca attctattcg atttttatta aaagaatgcc 36240
agtcagtgac ccactaaatt gattatgtga cccaagaatg ggtcctgacc tggagttcaa 36300
aaaacactac tccatagcaa ccagaaacac attcgtttct tctttcacat gataaccctg 36360
taaactcaac tatggtttagc ttgtttgcct ttagtctctt ttacaggct taaggtccca 36420
gtttccaaag ctttttcttt cgtgatttga tattttgact catcaccata ctggtcgggt 36480
gttcctggat acttacgggt tgtatccctc ttaaggtacc agaagaaatc taatctcaaa 36540
ataaaattta actagggccca gggcttttct tttatattgt ttcctactaa tgtcattata 36600
ttacacattt attctacaaa tgtttgttct atacatgtgt actgagcact actatgtgtt 36660
agggctatcc ttgggtgctg aggacactgc agtgagcaaa acaaaaatgt ctgcattcag 36720

```



```

agagtgtaca ttgtagagaa ttgcactagc cactaggagt atggcaatgt caaatgaaat 36780
accaagcgc tcagtcatag atattcctct gtactgctca gttgcacgtg atcttttagg 36840
gcacatggt attgtagact gtcaggcatt tactctcttc attgtgagtt cctcctgcct 36900
ttccacttga gtgcacatct tggcaaagat gaaatgtcaa tttctgggaa aggcacctat 36960
gtgttgtttc ccttattatt ttaattaat ttatTTTTTT taaacagagt ggaaattaga 37020
gacttaaaaa tgatcaaaat acagaaatat gaaattatTT ttcctgaggt tcagactggt 37080
taaaggaaga ttgaaagttt ccattgtatt tgataaaggc atgtgaattc taatcaggtc 37140
acagggcac tcagagggtc ttaactctt tgggaacata aagtacactt ttaataataa 37200
attataactt ttcctgggggt gactttgtca tgggtaaatt tgggccaagg ttaatggttt 37260
tagaggttga attacttatg tttgttttat gtaaagtaat atattagggc aagagatttg 37320
aatgaacaaa ataaacaaaa gatatggtct ctatcttcaa agcttgcat ttagttagaa 37380
aacaaaatct gcataatgaa attatataaa cgagtgatca aatcacataa taagtacaac 37440
ttgaaaatga tgataggtaa atagaattca tcaagaaaga ataactggag acccagcatt 37500
tgaaacagat gggaataaat tggttaaaaa aaataaaaaa aagtgtttat aataagttga 37560
atgtaattta aggaatctga agcattaaaa atctgtgctt aggtgaaact gcagtttatt 37620
taccttttag aaactagtct gatttttttt cttctgttg tttgaaaatt taciaattag 37680
gaatttgtca taggatgtgt aaatatatTT ctaacatgag aaactaatgt ctagataatg 37740
aaagggcac ggaaggaagc cttaaacatg acattattca gtcagaatag gattgcattg 37800
atccagcggg tgaaaaatca ttatggagtg gtgttttcac acaggcctct tcctttactt 37860
tattctgaac tacataaata tcaattaaag ctttctagtc caagttagca gatggcgatt 37920
tatgtcggac ttataaacia agccccagaa cattactata cctaattgat gaatgctctc 37980
tccctttcct gaacaaagat tttggcctcc agtgtggttg tctgagagaa aattaatgaa 38040
ttcttttctg tgggtctcat tagaaaggct cccgtttata gaaatatttg actttttccc 38100
ccccaaaaaa gaaaacttga atgcttttaa gttgcctagt aatttaaatt ccaaagatg 38160
gactggaata gtatttggca ttaacattta ctaaaaaat tatattttcg gcttacagca 38220
gaatgatgcc tcaaacaca aaatagtaat caaaataaag cacacagaaa agtggaatgt 38280
gtttaattat tataacttta ggtagacatc caaattaggg ctcatatTTT attgttgttt 38340
ttaattatTT ctatttatta ttattatTTT ttgagatgga gtctccctct gtcattcagg 38400
ctagagtgtg ggggccaatc tctgctcact gcaacctcca tctcctggga tcaagcgatt 38460
ctcccgctc agcctcccaa atagctggga ttacaggccg ccgccaccat ggctgctaa 38520
tttttgtact tttagtagag atgggttttg ccatgttggc caggctggtt ttgaactcct 38580
gacctcaggt gatccgcttg ccttggcctc ccaattgct gggattacag gcatgaacca 38640
ctgcacccag ccagagctca tatttttagac tctttttctg tgaactcttt tctttcgact 38700
tgttgttctt taaggtgaga tgacactttg tactaattct taaaatgaac cttccctca 38760
atttgaaata tgtgaaaata gctgttttgt actatggacc tgtaagtggc gtcttgttgt 38820
ttaggggctg ttgcaatgtc cacctccagt ggaatgtagg tcgctgcac agaagaaggt 38880
agaggagcca ggctgtgac tgcagaatgt attccttacc ttttgtttga aaatagtaaa 38940
tttcatTTgt gaaacaaaac ctgccttttc ttttctatcc tagcttcttt gaaatgagca 39000
gtaggctgat cgggggtaga tattcaaaata tactgaaaca ttaaggttgc tgtagatgag 39060

```

```

aaaacagtgg tactttgggt gagggcaatc tgcactaaac actttgactt taatgatagc 39120
tttctgcccc ctgccacca ggtgtctttc ttgtgctcat tggtttgagg gtgcattcct 39180
caaatgagag gggcaattca ggtaaaagt ttcaatgttc ctgcccagg cagcctgcta 39240
aaggaagtgc tcttggtgat gaccatcaca tgattgccac gggaatgtgt ttactacacg 39300
atctgttgat acaggtaata aagaacacac tgatgacttt tccccacgta atctctgagg 39360
tcggtatfff agtaaccttt gagataataa tttactcac gccctataga aattatgtat 39420
gcagtaggcc cttggtagag actgacattt atataaggct agtggttggt gacctagttt 39480
gatctggccc tagatttata aatgaatgaa tgatctcccc agaattagga agacatgaca 39540
tcaaaaaatat gaattcatca ttactgtaaa agtttaacat gctgttaaag tgtagcatgt 39600
tagtgagacg aggcctcagt atcttctgct ggttggggaa aaaaaataaa tgtgtattaa 39660
gtctcaggag cctgcgtggt cctcatgctt gttaaataca gaatgggtct ctccctttct 39720
ccaaagatgg agtttggcct tgggtgggatt ctgtgttggg agctgcagtc ccagatgctt 39780
ctgctagttt aatagaagag atcaggaaga acaactggc aagtgaattg gacagataca 39840
gacccaaaag acttcagata attggaaaga aattttgcaa ccagggcatt tctgcatca 39900
aaacagaggt atcttgcaat gattcttctg ctggctgttg ttgaggtctt acttttagcac 39960
tggggatggg agataattcc cgtatagcca taatatggga aatcaccagt atcctttaag 40020
atgacaaaat tcaaattcta ataaagacag gatttgggac attttttaaa gagaggtgct 40080
gggtgtggag agggaggaag tctggtttct gataagggt tctcctcatt ttacaagtct 40140
gcttgtcatg agagaagtat tattcctgga aatgaaaaac atggaggcag aaaatccgtt 40200
tcttcaaaaa cagatagtgg atttttgcac tgccaaccta gctgttgatc tgctagctct 40260
ggtaactgaa accctatgag gctgcgtaac atctcagatg ttcagcttca aatctgagat 40320
cacaaacagg gtctctaaac aaaaagtgtg ttaaatgccc agtcaagaaa atggggctac 40380
ggaaaaactc aaaacagaaa aataaggttt gtcttataaa atgttcatac tgcattctta 40440
gacctagtgt ctaatgacaa tcagttacct gaattataaa aaaaaagggg tactaccag 40500
tttcattaat tgccttgtat ccagggtctt gaaaggagat tggatatttc atgaattgat 40560
ttttgaaact gagtgtggtc ctgctattaa ccatgtcttg ggagttccca cccttgaagg 40620
catcttctga agcttagaat tttttcttc tttttttta agagacagag tcttgctttg 40680
tcaactcaggc tggggtgcag tggcatgata ctagctcact gcaacctga actcctgggc 40740
tcaagtgatc cttctgcctc agcctcccaa gtagctacgg ctgtaagtat gtattacat 40800
gcctggctaa tttaaatttt ttttttttc tagagatgaa gggctctgct atatttccca 40860
ggctgggtctt gaactcctgg tctcaggcag tcttctgccc tcagcctccc aaagtgttg 40920
gattacaggt gtgaggcact gtactaggcc tgaatcgttg aatttttgac tctagtcttg 40980
aagggtatga acctgccctt ctagtgttgt ttacttttg gataaagccc aaaggctcag 41040
agctcacctg taatctgggt gtggttagact gatgtgtgtc catcatgggt tcaaagtga 41100
tatttactta gtaaaaacct gccaggcctc agatgggagt tagatggtga atctcctctc 41160
tgtgtctgtt aagggcacct catgtgtttc atgtaaaatc cttgtagagt agattctctg 41220
aatccaactg ttagattgtt tcaagtgttg gactcatttt ccttatagta acttacttag 41280
gaattcatgt aagttaagga cttcagctgc ttacgttggt tcccattggt tggaatatgt 41340
taatgcactc ttaaaaaattg attaaactgac catcagtgtg tcatgctagt ctaagatttt 41400

```

```

actttaacaa ttgatatata gagattgaaa gttgtgatgt agtaactcta ttttcctaa 41460
gattcatcta ttcggttgac ttttttatcc cagtactctc ttcaggattg atcataggta 41520
ttgattggca ctagtgggtt acagatgtaa gaactgagag ttagattacc ttttgattc 41580
tcccacttag caactacaga aatttgcttc tgtcttactt tacttctgta atcatcactg 41640
ttttctccat taatcagaaa tgtaaccttg gtgtcgggtg catttctttt gtctcagtag 41700
ctctctgatt tttgttctct tttttttctt tacagagcac aaaacttatt gacatgagcc 41760
tggaattttg aagtaagggc agtcatgcta atattgtgat tttccatatt tgtgctttgt 41820
atgtaaagtg actgttttta acattttaat ttttaattatt atgggtacat aatagttgta 41880
tataaagtga ctctattttg agttttacat tttacaggat aaaaccttaa gattaattcc 41940
atacatcat ttcaaaataa ggcacgcact tgatagaaaa gttttctttt tccttagatc 42000
gataatatgc tgaatacact tttggatgca gaaaataaaa ttctgagcag tattataaat 42060
tagaagattg aatggctctg ttggtaaggt tagtaacagg tgacagattt ggtattcata 42120
cctgtttgtc actcgtcata ccttttgcca gttattcttc agagcagtta gattagtga 42180
ttaagcattt ggttttaaga aatgtgcttc aaagtgaag gtagttaatg cttacctaat 42240
tgactaaaaa gagcttttat ttcttttaag gaaaataatt tcctcttggt ttatattatc 42300
tgggcacaat ggctgagtga aattaattgt taacttgaag cacatttatt ttctatggat 42360
gtgaatatcc ccagagtaca tttgacactt tgataatact taattatgga ttaggttcac 42420
aattctgtgt gatatgttga gatgcaagtc aggggagcct attacattta taaaagttca 42480
gtaaaaagaa actcatcatt aaggtggcag gaaataagga tatagttttg gcatttgaat 42540
tcttttgtgt atatgaatta ttttcctcat cagtctcatt cattaatgtg gaggtctgac 42600
caatatatgt ttccataaac attttttcct gtcccaaata aatgtgaata aacttagctt 42660
tattcctgcc tgaccagtc atttactttc tatggacaaa tagtattcct tgttatttgc 42720
aaggctgatg taacgacaca gctgctggat gcttggcatt tctgcttctg gtgaaatgct 42780
ctttgtgcag atttatctga tccagatgtg tgaccagcaa gctacatttc taattataag 42840
gacagccaaa ttccattata agcacatcat gggattatag ggccgggagt catcctgaga 42900
ggacatctag ttcatctctc agccgttcag caggaccaca ctttgtaacc tactccagca 42960
ctgaacgaag cagcaaagaa tgttccacce atgtataggc tgaacgtgga atcactggaa 43020
ttgtaactgg aaaaagagac aagtcctct ggtctggccc tcttgctttg tgggtaaaca 43080
gattcaggcc cagagaagtt tgacttaatg tggattttta tgactctttg cctaaaactt 43140
actcttcttt tctctgaagt ggtctgtgct gagggagtga aagggtagaa gactggattg 43200
gaaatgccag ttccacatcc agatgtagct ctctactcat ttagaagtaa gaggtactga 43260
attagtga gctagattcc attgaagttt attaagtatt tctgaaacce agtatgaagt 43320
acgatatctc atgtctgtat atatgtttgt gtgccttagt gataaagtac aaaggaaact 43380
aggcatgctg ttagggtag aatgtttgca agtgtggtgt gtaagcttac caagaacaac 43440
atctcagaat aaataagtga ttatttaact tgatttgatg ttgttgagtc tgggttttga 43500
ttgtacccta cttcaagtga tagttagcct gccacagttt catggatgct gggagaagac 43560
aaggggttcc tgtaccacag aaaaaggact gtattactcc tgacatacca aatagtgtaa 43620
actcttatgc ttagggctta ctggcatgcc tatgttggtt cgtccttgcc tccatgtccc 43680
acaggggtga taaggatgga gcgtgcagat ggagctgcac acactttggg tttgcgttgc 43740

```

```

tgctgaggaa cactgaactc ggagaatctg ctgcttttat agcatgcagt aaatgaactt 43800
gctctttgtt ccaaggggga agatactacc tcatctgtct gttcacattg ctactgcaa 43860
acataacttt gagaaatggc cttgatacaa aatggcagga tatgtagaag catgagagac 43920
ctatggaggg gtgtctcaaa accatcatgt cctataattg ggacaatcaa ataaaacact 43980
tcactagcaa cttcacagag aatacaagac atcaggtagt tgtaggaag caaattcata 44040
atgaaaatgg taagtgtggt ataattagag tgaagatggg tagaaaatat aaagaacttg 44100
atttcttctg tatattgacg tcttcttacg atttcaagat gtggtcagat tataataaaa 44160
aaatactaaa agaaatcagg aattataaat cttgtttcta cactgttaaa tctattaatc 44220
tttttgtgaa atgaaagtat agtagccagg tggaccagg cataggttta gctctgtttc 44280
ttaactgcat tgtgacctta gtttattttt ctttttaatt gtgaaagtta tttatattct 44340
tagtaaagga aatttttttt ttccagacaat agagaggtat aaaaaagtaa aagcctctcc 44400
tagagttcat ggaggttgcc acagttctgt ggcttttga tcagtcaaca tcagaatgga 44460
agggaaacgt taatgatttt agtggctact tgttacttct gaaggatcaa agggcttggg 44520
acgtttacaa agtattctgg gctgggtgcc gtggctcacg tctttaatcc cagtagcttg 44580
ggaggccaag gtgggaggat tgcttgaggc caggagtttg agaccaggct ggacaatgtt 44640
gcaaaaccct gtctctacaa aaaaataaaa aaaattagct gggcgtggtg gtgcacgctt 44700
gtaggcccag ctattcggga ggagaggtc gggggatcac ctgaacctgg gaggtcaagg 44760
ctgtggtgag ctgagatggt gccactgcac tccaacctgg tgacagagt agacctgtc 44820
tcaaaaaaaaa aatatgtata tgtatacaca cacacacata cacacacaca cagtatatt 44880
ctgaatctct ggaaagattt atgaggcagt attatgcttc taccactaaa atagtgttat 44940
tattttcact ttgttctact caaatattta gctaattggt gtcttcaacg taagttgggg 45000
ctacatagat caggcaacag tatctttatt ttatggataa cgaaactgag acattcaagg 45060
ttaatttgtc cagttacatg gtttggcgtt attcggttc ttatctcctt agaaaagatt 45120
ttggcccaaa ataaaacttt cataaagtag gagactatgt agttagtga cctgatttca 45180
attactctgt tctgtttttt aaaatagtat gtatcatttt cttgcatact acataattta 45240
cttattatgt tcattgtttc tttccccta cgagaatgta aacttaatga gaacaagaat 45300
ttttgccttt ctttttttgt cttgggcact ggtgaagttt caatttctgg aacagcatat 45360
taatgcatag tgggttctcc agtccatag taaatttggg gatgaaatga atcaacatgt 45420
ggtaaatacg tgggtctaca aggtgatgag atcatctct tgatcttaga ttatgttttc 45480
agctttgagc aagtgggtgg acatcttggg atgatactgc ttacctcatt tgatttgatc 45540
aatgagattg aatttgtaaa gctgggcttc aggatatggc ctacagattt ttttgcgttt 45600
ggttttgtag agtgttttaa aaactttgca agcaacattt aagaactaag ggatttcacg 45660
taaaaataaga tttctagctt ttttggtttg tttgttttgt ttttttcttt agaaactgaa 45720
agatctgaca acatggcctg cattcctata tggtagtga aggtcttgaa ctaaatagca 45780
gctcactgtt aagaaagggc atttgctctc tagtttacca cagtccccct gactctctgt 45840
taactcttga taccgaagct gagttgtcag ttgcttttcc ccatctttta cattctttaa 45900
tttttaaata tgaagaaata ttcagccatg ttttttgaaa ggaaataaag gaaaggtcaa 45960
ccacttcact catcgacatt gcctccatgg cccttgtagg gcaattgaaa cttggagccc 46020
cttgatgtgt ttatctaaga cctctgcttc tttgaggtct agacttttta tgattatggt 46080

```

tatgattgct gatggtatgc agaagagaag agatagcaat tcaaaggaat taacctcagt 46140
gctttgactg tggaagtggg agcatggaat gtgagtctgg ggaaaagtgc ttcctttgtt 46200
gaactattaa tgcataatgg attcggatgt taaaagtgc tggccacatt gcttgtttct 46260
cagatacagt attagaaggg ctctataggt gtatacatag tctctattct agagagcttt 46320
tatttttctg tttgtaaagg tggcaaaaat tgcaaaagat ttaaaaaata ttacttgtaa 46380
aaagtgatat ttcatccagg agaaatgaat gcttgagatt tgttgtctaa gacctaaaca 46440
attaagctct gggccaggca tgggtggttca cacctgtatt cccagcactt taggagactg 46500
aggtaggagg atcacttgag gccagaagtt tgagactggc ctgggcaaca taaagagatg 46560
acgtgtctac aataaattaa aaattagctg ggtatggtag cacacacctg tagtcccagc 46620
tacttgggag gctaaggtag gaggtttgct tgagctcagg aggtagaggc tgtagtgagc 46680
catgatcctg ccactgcact tcagcctgga tgacagagca agacctgac tttaaaaaaa 46740
aaaaagctct gcttcccttt taatataaag aacaaatggc atatgcttcc aagggtacat 46800
tggaaaattg gcaatttcaa gccatgttta atgtggaaat gtgacttggtg ttttggtatt 46860
atatggataa attagattgt acaattagtc ctttagactc atgaattgcc tatttgatta 46920
tgtgactctt tatgtaaaaa ttggcctaag ttcttattta aaggaactat gtaagtgaag 46980
tgctaataac atttcttatt ttcatataat ctttataaaa ttgggatttc acataatctc 47040
attaggagaa ttgaaaagaa ttaagttggt agatcagagt tatccaaaag gcattctcta 47100
gtgaacatta gatcttaaaa agtttgtgtg ttcaaaaacg ttcggccttg gggagattct 47160
cagtgtatat taaaagttct ttgaagtgtg gtgttaaaga acttctagct cttcaactca 47220
gagtttctca agcttgatgg aagttttcta cagaagatgt attagcatgt agcagagtat 47280
ttttcctgtg tcacatacct tagaaatttt cacctggata gatttattaa agaacagaca 47340
ccacaggtag tgagttcctg gcttcacatg gtttcttgct tttcctcact tttaccagag 47400
tttatagttc catttcttcc aagccactcc cggagatgga aggaagtggc atgctcaaaa 47460
cagtgtagaa tccaaacgga atgagaagga taattttgag tcattcttct tttgtttaga 47520
aaataaatat accttttttg aaaagaattg atttcctatt tttaggtaat gtacttctag 47580
ttaaggcgca taacttacct tgcctatatt ataaactatc agcttgaccg aagccatctt 47640
tttcttctgc tgttggtctt ttagagactt gctgttattc acatagataa tacttgtttt 47700
ctctgtgagc cgtactactt gccaggtttg ggacttctca catagaggct gatgtaatag 47760
ggaaagacag tgggataatt aacatttttg aatttgataa gtaagaatga gtgcatatgt 47820
gtgtgggctg taaaagagct tataacttgg ttagatttcc tttgtaaact taggtggaaa 47880
atatgcttag aaatttgaag tgatttgaga agcaagagac cttatcctgc cattaatcag 47940
tggtgtgacc tctgaaaaat aagggatgga atagataatc tcagagggtg tgctgattaa 48000
aaaaaatttt tttttcaaat ttcatgcaa attttaaatc ctgatgttgct atttttaaaa 48060
cttgatatagg ttgtaacatg ctggaaatga aatcaaacc cactgggga aaaattaatg 48120
ctgatgtaca aatatgattt ggaatctttg gtatttgcca ggggctataa gaattcaatg 48180
cttctccatt tgtgatcttt ctgtacacg tgaaggctga ttgagaattt gagagcccta 48240
gctctagatc tccaaataat tggagatctc taaatagtta gaaatatgca agagaagata 48300
gtccacatta gcaagagatg agaatgtagt atataccact ttggttcatg tatcttgaag 48360
cttttatcat tcgtcacctc agccattcgt ttttttcaga gtaagtcata tgcttagaac 48420

caggaaattg cctgccacat cttgttcctg gaaaagctga cagcctaaaa atgcttatca 48480
 ttcaagggtg gacctaaatg agtggtgtac agctattgta atttttctat aaagttatgt 48540
 ggctaaacaa ggtactttct agggaaaatt tcttccaagt aggcctttat ttacaacttg 48600
 aatcctaaat tagcaaaacc gctgtactgg taccacagaa gttcatatta gaagggaatt 48660
 tgcaggtagt ctagtccaac ctttttatgt tgcaaataaa tgtagactga gaaacctaac 48720
 tcctgcagct agcatacata acagaactga aacccaaatc tccagatggc caccacggtc 48780
 atctttcctc agtatcatgt gggtttcagt cagtgtctct cgtgctagaa tgaatcccat 48840
 gtaaagtatg ttttaaatta aatgtaatgc ccatacatca aatcacacaa gtctgtacct 48900
 tcgtaattat attttgaaat gcaattgatt tgctgaatat aaatgtttga aatgttttgt 48960
 acatagctat tacatttctt taaactgtat ttataagat gtatatattca atgacaatac 49020
 ttatcctaca aaagagaatg gtttcataaa ttgatttaaa agtaggtgcc agtgttacac 49080
 ttataaataa aaagataaat ttacatagt gaaatctaaa aaagaaatgc aattgatcat 49140
 ttaaaaacca cattttaaat aaattctaca aaaggtagcc attatgattt tatgattact 49200
 tgtgttgaca gtattctcct gtggaatgtg tgatgcttaa aatgattagc ttgtacaaaa 49260
 gctataacaa tagtaatatt ttactcatt tattcaactg taagatttta aaatttacag 49320
 acaatagcca aataatattc agggttctgt tttaagtgat aaattagctt tctacgggac 49380
 aaaaaaggca ttgacaagag cactgacttg tcatggtatt gaatttcaca gaattagttt 49440
 tggataaatg ggattttcaa tgtcctgtga gctctcaaaa ttcatagtga gcaactaata 49500
 cccataggac aaagtaaaat ttagttcaca aattattaat tatttaattt gcaaagtaaa 49560
 agtaaaaatt agttcagcac aaattattat tactttacta attcttgttt ccaaattaaa 49620
 tatttgaaatc aagagtgtag gaaaacatct tttaaaatgt gtgttatagg ggtacagtat 49680
 aaaactaggg gcaggatatt ttacatagg attttcttaa accctagaaa aaaacagtaa 49740
 gaattcatta gggatgagga aatttcctta gtgaatgttg gaaacaggat gcaatgtggc 49800
 acagctgtcc gcagaggttt ggaggatttc cctgggaaga tcagtactga gtcacagtt 49860
 gatcgaagggt aggggacggc acaacacata ccatgcacaa atcgaatgta ggggtgatta 49920
 agccctcagc agtatgaaga ttttaaatta ttgggtgggt acaaaagtaa ttatgatttt 49980
 tgccattaat ataatttcag tcatagcact atcttaatat ctctgacaga agactcttgg 50040
 aacattaaaa aaatcaagat tctaataagg ctgtcttggt aagatcaagg catggaggtt 50100
 tgaaaatctc agtgtcgatt cattatctaa aaatctcttg aatagctcaa ttacaaagtc 50160
 agccataagt ggaaaaactat gtatctaggg tctgcaccgt gccggctgca taagataccg 50220
 agtaaatgtt tgaacaactg agggaatgaa ttcccaggtc ggccatctca actttttaca 50280
 acgttaatga caaatatgat ttcgacatat ataattcatt tgtatcagtg ttttgggtgt 50340
 gatattctgtc agttgtgatg gctgttatat gagttgaaca gttgtgttta atcctgatat 50400
 gtaaatgtt agatactgct ttaaaatttt taaaattagt ctattccgaa tttccagata 50460
 ttaatatatt ctctgaaatg ttgagtgaat tagaagtgga agccagagac tttgtctttt 50520
 tctctacaac tcgtccaact tcaaacgtgc ctctttttt ctgctactgt tgttactgag 50580
 aaaacttgag caggcaggtc cttggtgctt ttttctaacc agtggatggc aaatatgtga 50640
 tgcacatctc ctagctcctt aatcccatga ccttgacagc catctctaata tatcactgag 50700
 cgggggcagt gaatctttct caactctgca ctctaggcag gtaccaaagt caattggagt 50760

```

gggcatgtga gaggaacact agggctgtga ccaaaaataa acaaacaac aaacaaaca 50820
acaaacaggg agctggagaa ggacttgtgc ttaggaacac agaaatagtt cttggtgaga 50880
acagaataat ccaagtttcc tgcttctcca gagcagtatt cttaatcact ttccttgctc 50940
atggagtggg ataggggtgt gaaaatgaac tgaaatggca ccctttcagt tttttcctgt 51000
tacttaggat ccagctcaca aaactaaatt attctttacc ttgtgtgatc cgggtactga 51060
agataatata gattgagtat ctgcaatttg aaaatccaaa atgctccaaa atctgaaact 51120
ttttgagtgc caacaggatg ccacagtgga aaattccaca cccaaccttg tgtgactggt 51180
tgcagccaaa actttgtttc atgtataata ttatttaaaa tattgtataa aattatcttc 51240
aggttatgtg tataagggtg tatgtgaaac agaaatttca tgttttagact tgggtcccat 51300
ccccaagata cctgtatatg atactttgta ttatgtatat gcagatattc caaaatctga 51360
aaattcagat ctgaaatctg aaacacctag ggtcccaagc atttcagggtg aggaatactg 51420
aacctatata actacttttc atcccagtaa tttcttcatt gcctatgaag agtttaggaa 51480
ataagtaaaa caaggacggg cttggggaag tggaggaag gagtagaata taataaaact 51540
cttctgaagt atttgggaaa atatTTTTTA agtaactgtt atagatacaa gtatgtctta 51600
tctgttaagt acagaggatt tccacctgtc agtctgttg aaagttttag ctgcctttta 51660
atttcttggt gcaaatgctt cttttcatac atttagatgg gccttttttc ttcaattaag 51720
ttgaattacc aaggttttgc tctatctatg taatttttaa atgtgaatag aggcagtaca 51780
tatggaagaa aaggtagata tttccctta atttgcagat gtatgaaaaa atatgattag 51840
aaattacaga agtcagaatt ttaaaaaatg atttagagat gagcattgta gtatcaagca 51900
ctttgtagtt tcctagtgtt ctgaaaagtg tgtgtgctgt tgtgtatgtg tgtatgcatg 51960
catgcatgtt tgtgtatatt tgctttggag catcttaatt ttagctttag gaagtaactt 52020
tgtcactgca gttgctaaac atataagaat acgtattcat atctgttaaa tatggtgcaa 52080
aaattatctt caaaagtgtg cttttatttg taggaaatac ctcttaacac acattttcat 52140
gtggaatttg tatttagtca tcttgacaag agtagtact aaagagaaat ggtcaaaatt 52200
gtgtagcttc tagtaatat actcacagt ccctgacttt actggggtgt gtgtgtgtgt 52260
gtgtgtgtgt gtgtgtgtgt gttagggagg tgagggggta ggggagtgt gtaacagatg 52320
gcttttagatt gcctcaaaata gggttgtaaa tttgactata agatgagtca gttttctgtg 52380
ttcattttcat gaccatgcat ggcacctcta accttaagtt tctctcaa at gctgtcataa 52440
agccatcatt actgatagaa aaaacaatgc acatttcaag tgtttatgat agtggttgat 52500
aatatcatct tggagtagaa gaacagcaaa cctcctatgt caaacagagc agcacagaat 52560
gacaggtctc tccatgcaaa agctctgtat ggactcctca gcaaacctgg agatccagga 52620
agagattcaa gctaaacgat tgactttttg gctatcagtt aaggagtcca tcaaatgcct 52680
gagccccgtg catatgctgg actctacct gtgttaggta tacattttct gagccttaac 52740
aaaaagattc ttccttaatt tatttagctt cccacacat tattaagtgg gggagaaaat 52800
tgetcaatac acattattat gtggatgtaa aacgtggact gaatggagga aaggctgttt 52860
gcctggagtc ttttttgagt atctctcaga gaggtcata atttcaggta tgggagaaag 52920
tctagtcatt acccagtcca tcacctcct ttcatgcatg aggataggaa gaccctaagg 52980
attctctgta gaggttactg tgaaccgtag taattttgat gtagctttta gtagcacgac 53040
ctggacagaa ctgtgggtgt cctggaaaag aggaggagag aatagcaaga gcaaaagctc 53100

```

```

agcagcggtc tcttgctccc cagtatcagg acactgttca catgggaggg ttgtgtaggg 53160
cagagtagga aatacattag atttttttgt tttgtttata cagtgtctca ctctgttgcc 53220
caggccggag cgcagtggca tgataatggc tcaactgcaac ctctgcctcc tgggctcaag 53280
tgattctccc acctcagtct cctgagtagc tgagattgtg agctgagact acaggtgtgc 53340
accaccacac ctggctactt ttttattttt tgtagagatg gcatctttct atgttgtcca 53400
ggctgggtctt gaactactgg gctcaagcga tcctcccacc ttggcctccc aaagtgtcgg 53460
gattacaggc atgagccact gcacctggcc agaactcttt tttagagaca ggattgtcgc 53520
tctgttgctc aggggtgaagt gcaggggcat aatcatagct tactaccctt taaactcctg 53580
ggctccttgac ctctgatcc tcccacctca gtatccccac cccaccagc taattttttt 53640
tttttttttg agacggagtc ttgctctgtc acccaggctg gagtgcagtg gcactatctt 53700
ggctcactgc aagctccgcc tcccgggttc acgccattct cctgcctcag cctcccgagt 53760
agctgggact acaggcgccc gccaccgcac ccggctaatt ttttgtattt ttagtagaga 53820
aggggtttca tcgtgttagc caggatggtc tcgatctcct gacctcgtga tccgcccgcc 53880
ttggcctccc aaaatgctgg gattacaggc gtgagtcacc gcgcccggcc ccatctaatt 53940
tttaaataatt ttagagagtg ggtctcttac tgtgtcgccc aggggtggtct cgaactcctg 54000
gcctcaggct gtctccctc ttcaacctcc caaagtgtg ggattactgg tgtgagtcac 54060
tgcacctgga aggaaataca ctggtatagc ctttaagggt cagaaaaaga tcaaaggcag 54120
tgctaacttt agtgactaa ggaatcttct ggagaatttc gtgagaatac aactgcctg 54180
ctctttctgt tcaaaggag gatatttagg cctcccttca gagattctgg tttagtagat 54240
ctaagtgaga actgaggact ctggattttt aaacagctgt attgagatat atttcacatg 54300
tcatacagct catgcattta aggtgtaaaa tttaatat tttagcatatt catgtcgtta 54360
tgcaaccacc accactagca aattctagaa catcggcatt gtgtaaccac caccactagc 54420
aaattctaga acatcggcat tgtgtaacca ccaccactag caaattctag aacatcggca 54480
ttgtgtaacc accaccacta gcaaattcta gaacatcggc attgtgtaac caccaccact 54540
agcaaattct agaacatcgg cattgtgtaa ccaccaccac tagcaaattc tagaacatcg 54600
gcattgtgta accaccacca ctagcaaatt ctagaacatt tttgtccctt ctaaaagaaa 54660
cctcatagcc gttggcagtt gttcccacc gtcaacccca gcccgaagca accaccagtc 54720
tactttctgt ctacatttgc ctattctgga catttcatat aaagggaatc gtacattatg 54780
tggccttctc taactggcct tttctacttt gcataatatt ttcagggtc atctatgctg 54840
tagcatgtat cagtatttta ttctttttta aggaatgtat ccataaaatg gatacattta 54900
agctatgcgt ccataaaatg gatacatttt tgttgttcca ttcttctgtt ggatggtttc 54960
tcctttttga gttatttaag taatgtctgt gtgaatatct gtgaggaatc tgcgttttta 55020
aacaagcacc ccgcttaatt ctgttctgta tagttcctgc acatatctgg agaaactcta 55080
acctgaatgg ttagtgttgt agaatactc ccctcacagt gctaagtctt ctgttcccca 55140
tctcttatgg gtgcttctgc ttgaagaatc actggtctgt gagcgggtgt gtagtggttt 55200
agtggaagtg aggttccaga actaaattac atggtctgca tgtgcagggt agagtggaca 55260
gaagggacat gacagggaca gtaggcagag taaatgggtc ctgtactttt tcagaatcta 55320
gtagtgactt gactagttcc tgaactaggg tgttgctgct ggtggtggtg atggaaagga 55380
agagtcagag gtaacagact tcatcaaagg aatactctct tcagtaatgg tgattttaaa 55440

```


atactcggca atttttgttt ttcattgact cagacacagt tctgtctaata tctgacctta 55500
tctattccta tcatcctgtt gttcaaagta aatgtatttt taccaactgt ttgagagagg 55560
aaatcctggg ataattagct gaaggatata gtgtaataaa aaaataccaa gttttgatat 55620
tttgaagcct ctgatctact agggatgttt agatacagta caagcctgag tcagagctga 55680
actttctcaa gttctttttc agacttggga ttctgtggta tattctgaaa ctgaaaatag 55740
cttctaggag attcacagtc cccaccacca ctgcccattg gcgccactgg gcccaaagt 55800
aagggcctag aacagctcac acctttttct gagagctata gcacagcttt agaagagaga 55860
ttgtcgcagc cagtgaacca tatcgggtac tcatagagag gggttttgtt taataggatt 55920
acccttgacc agatatccat gatctgtttc acatttttcc gtttagattat ttggcacaga 55980
tgtgatcaga ttgcccttaa gatgtctttt gttctgtgta ctatttttcc cctctcctaa 56040
cacaagcatc attaaaaaag tcttggagca ttgatacatc aaaagattct tctttctacc 56100
tactttatca aaatcactat gaacactttg gtgtatgttc ttctagactc ttttctttgt 56160
taaaaaaaca aacaaacaaa caaacaacaa aaaagcctag ttttgcacag agtatcacag 56220
cgtgcacttc cttgttaacc tgttatttcc ccctacaaac aatgtgttgt gaacaccttc 56280
ctatgttagc agattgattt ctacagcatt taaaattggc tgtagagttt tgcattgtat 56340
ggataaaata ccttccaagt tttcactgtt tcatactgtg atgtatgttt tcatacattg 56400
ttctaaaata tcttaagcca catcgtacat attgccagtt tggttctctg tgaattttac 56460
tggtacaacat acaacctaga tgctcagggt taattaagta ttctggggca aagtgccatt 56520
gaacctgggt cctggtacat acattcattc tgattattgg ttgggatagg tttatagttg 56580
tgaaataggt gctacagaca gttaacataa aacatcctgt agctctcaga agatagaaaa 56640
tgcacctttt aactttcaga aacttgcata cctataaacg tagaaacaag gaattgcatt 56700
tttattaatt catggaatcc agtcttcata atggatttaa ataattctat ttaaaatatg 56760
tgcacacaat ctaaaagcat tttgtcattg tagcctaata tcatataaaa agaaattgtg 56820
cctctgagtg cacagtggac atacctgttg tatcatctgt ttttctgggt tattgccatc 56880
tttctgccag agtccaggac cctagaggag aatttcacca tcttctctga agtaaaatgt 56940
gatttaggaa ccagcttgct ttttttttaa agtaatgagt atcactgtta tgtatcaaaa 57000
ataaaaaaat aggcagattg attataatct gtagccctt actgtaaatt tcaaatagaa 57060
aagcaagatt gagaggaaat acatcatcat ttaacagtg gctatttttg agtggtgaga 57120
ttatgaacaa ttaaactttc ttcttgcttt tctgtatttt cagatttcta gagtgaacat 57180
gtattatacg ctataacgca taggaatgtg ggaataaaaa tacgggccaa atatttttaa 57240
aaggtatggg atgagggcgg gtgggctgga aagaacccat aaagataaga gtgggtagtt 57300
acttttccac tgtaaaagaa tgaggcttgc cagctcctaa ggaaatctct gacccaccc 57360
tgtacttttc aagcaagagc ttttgaagtc ttttgtgcta gttagagact agcatagtta 57420
gtacagctaa gtaagtatgt aacagattct attattaggt ttatctttgc tgattcccat 57480
ttgattgaca gcgagttctc caccagaaa gtttgattta ttttggcagt tggaagagga 57540
ttttatggag cacttgttat ctaaaaaaag taaggctgtg gaacctgctt cccccaccc 57600
tcttttttag ctgtttgggt tggtcctagt gagcatgcct aatctaagga ttactcagca 57660
aacatgacct tagggctggt tttgtaaag ttaccaaatc tattacttaa ccacagatgt 57720
tcttccattg ttgtgtccca cagccagagt agaattgtga cgattagttc tgtgagactt 57780

```

ggataaaacc tgtattcttt aggtctcttt gtatgtggtg gtttgaaagt atttcctcac 57840
aaaaatttaa acaatcacat ggtgcaaagt aaattgaatt atgttttctt aaaaaagtta 57900
acttataatca ttatacaaat tatagatgct cattgtagaa tattttaaaa aatatagcaa 57960
gttcaaaaaga aaaatacaac ttattcgta ttctattatc cataagttaa gcattaacat 58020
tttggttcta ttcatattca gtcttttaaa aaattgtgta tacatatata atctgactgt 58080
gtaaatgca ctaagcattc tattgtgaac acttcctcat agtctggttt actttttcta 58140
tgttgtaaaa gcaacttcct gacactagta aatgggtatta tttatgatgg gcatggatac 58200
acatatcttt tattttacag cagctgcctt aagtagactt ccagtaaadc cttgagatgt 58260
atgtattact tgtgatattc tttattatta tacccaaatt gatagattag tagaactggc 58320
aggggcattg gtcatggaat tcagtccttt aatttgagaa ataatccttt gagctggagc 58380
tgcaagaaat tttttttttt ttttaagaaa tgagaaaaat aagccagaag agttgccctt 58440
tgcccaatat tattaactta tttaatggcc gtaagataac actgttggaa gcagctgcct 58500
cttttcttgt acaggttggg aagttggggg attgagaatt taatcaacac atttttttta 58560
agaaccaggt tgtacttcct tacatgctca agtatggagg aaaaagccaa accctgaggc 58620
tagtagttta gtattgaatt gccaaaatct atttattaat ttcatttttc attcaccagt 58680
tgatttgatg gcatgtgtaa gcagtcacca ttgtcttgat ttctgcatg tacctgtaca 58740
gaagtcattg ttaacatgat actactgaca gtacatgctt ttctagtga ggagttaaaa 58800
taattttttg gctttgcagt taaacacagt ggtcgggtatt taaggtattt aaggaatcgg 58860
tatttaagga atcagtggag ttatgaagta atatttgaag ttttgatttt ttaaaaattg 58920
cacattcaat gttaacacct ttcagttggc tttgaaaaag cagtagattc ttgggagtac 58980
tttcagaaat atttgagaaa aacaattatg gcttagtatt ttttttttaa agaaaaacaa 59040
agcaataccc tgagagatta tctagaaaaa tgaaatggaa ttgttgagtt tccccttcac 59100
cttgggaaga actcggggga atggttgtga acaacactgg ctttgttgac cctgaagtgt 59160
aggcagttag ggccgtgtaa catggcattt atagtgttcc accatccttg ctgccttgga 59220
aaattctttc tggaatggca gaggtgctct ttgcaaggcg tgcttcctgt gtgagtacct 59280
attgtggagt cctcgggtga atgggaggtt tgtgagaagt ggtttccac cagcacacaa 59340
tgctgcctct cggaatgta aatacacatt ccactcaggg tcaggctaac agtgactggc 59400
tagagcaaac gccttcgcaa agaaagatat tttggagttc catttattta tagcggccag 59460
tggaataatta atatgcttgt taaatctatt tttaaaaatg aaagggaagt ctctcatctg 59520
tttgttgaat gcaaatcaat tagctgtggc atattttgat tttgctaatt tgttgctcta 59580
ggaactgaat ttcaatgtcc tactaattcc tttgtctata tttgaaactt gaggttctca 59640
ttttaaaagt tctctttatg ctttggaga cttcttttgg gttctttgat gaaagacata 59700
aataaatgaa tgaccctaga aaatactaga tcaaatcatg gcgggactta aaatgggctc 59760
attgagcagt aaatgaaggt ctagagatca gagcagatat gattcttcct taagaatggc 59820
aacacaatat tatttgcgt tacttcctta gtgtttgatc atttgctttg aatctggggc 59880
atgagtctga ttacaggaga gattgcacgg ggatcccat ctaacaggcc tggatttatg 59940
ggtgtcaagt ctccacctct cctgtactct gctgacagcc ccagcaggaa gtacctggcc 60000
cccaacatca gttttcttag ccctccagcc tgcttttctg ctctcatgat ttaccaaatg 60060
aatttgccct acaaatgttc tctaattgagt gtggcataaa gtcctggaga gagacatctg 60120

```

tggtagaatt agaatacctc ttaatttgga ttaatttggt cttcctttag accctgtcag 60180
gtgaactcta gttgtataat agaaagtata aaggaggac agcaatctgt ttttttatg 60240
tttttacgta taacttgctt gtgtggagca acaactctca aagtgtcgtc tgggagaccc 60300
ttgggtactc ctaagaccct cttgggggtt catgacatca aaaccattaa taatcctaaa 60360
atgttacttg tgtttttcat tctgcttctt tgagtttatt ggtgacatta actgaaaaat 60420
attttgtgtg tgtcttttgt gttcatataa ggagaagtac taaaattgaa ttggagaaca 60480
tgccttttat accaaagctg aaatttaaaa agatttttct ggaaaaattt taaaacccgt 60540
taatgaattc cttaaattta gaatttgtgt aacttcagca cagaagagtg tcttgacag 60600
aggagaaaact aaataggtat ttcttaaatg aatggatgta gctgcttact ttttcttaac 60660
aaattgtatt agtataaatt aatgtcattg ttcacaggca gtgttttagaa tataggcaag 60720
caccatgctt tcaaacactg aaattcacct atttgctat aagccatata tataccaatt 60780
atcattctta tctattaaat aaaacaaatc tccttaattc tctggtgtgc gacagttttc 60840
tgtcgagaga aaatatTTTT ctagagaatt ttgcattttt atgttttcaa aatgtttatc 60900
tgaattagta atatgactat atacatactt tatattaaaa ttttatcata atgagctaat 60960
ctgaaatagt aaatagatat tcccttacac agtatgtctt tgcacctgct aatttgtttg 61020
tttgtaact gttgtcattt catgtgaaat ttctgtttcg gtctcttctg agctctaagt 61080
aacacctggg atttgcttta tgttcgggtc cattaagtga aaaacaaagc tgcttatgag 61140
aatgtcatta aatgtaatat ttctcaagaa ataacttgcc tttagttaat aaaaaacagt 61200
tctaaactga ttttcaatgt atcagacagt gttcttactg atttccatcc cccaacat 61260
gcaggagtga gaatcagata attttttgaa aaaatatttg aaccaatatc tacaattgct 61320
tatgtcagaa atctttgaaa tatatattta agtataaata ggaggaactg tcagtgatgt 61380
ttaatggtac agattctttt ccttataatg aatgtttcat aacatcggtt cagttaaaca 61440
aaactgagtg tgtaaaataa acatgattga attctatacg agctgattaa aaaaaaatt 61500
ttagtatcct cctggctgat cagaaatgaa ggtaaggca tggggtatgt tttgaagaca 61560
aattcacctt ctgtaacacc tgtcagattt caaagtctag aaaagaggcc acagctggga 61620
aaccaaaatt agacattggg gcttatctca gatgaaaggt ttcgtagagc atggaggtct 61680
gttgactttg tgtggtattt cgtcagaagt gtccaatgca gattcgtttt tagttaactg 61740
agtataacat ttcatgttaa tgctatttaa ccttatgcct ttatttctag aaccctagaa 61800
ttctagcaca gtgccaccac aaagtgggta cacagtaa atctgggttaa cacaatggtt 61860
gattaccttt tttcaagttc ttttgtttga tgttatttta taaggtagct ttcagctagg 61920
tccttctttt ggaatattgt tattattaaa gggagaagcc ttcaacctgc tttatactta 61980
ttttacagta gttaacttaa attaatagaa tcttgaaacc ctttgtacca aagatattac 62040
tctagcagtc tcttcatcaa taacttgctg ccttttgga ataattttgc ttttgtgttt 62100
aatcatggca catttcatta aaatcacctt ggaagacata acttttagcaa tttataattt 62160
ggtttctgct agttttttcc cccctcta at tttaaacct ctaggctaaa tggtagtata 62220
atggatttgc ttcatcttcc ttaagctact ttaaaatgtg ctctaaaaat tattaagtct 62280
gcattttggg aaggaagcac caaaaactca attgtagcct ttgtggagg gaaccaagca 62340
ctccttagga gggagatgta ctctcatggg ttgtctttga aagttacctt ttgatactt 62400
ttctgttttg taccatgtgc ttgttttatc tagtctttta aactcactaa cctatatata 62460

aatttttagcc agctcttcta cttgggtttt gttgtcagat tcttagatgt tacaattagc 62520
tcgctaagag catggacttt tcattatcac tttctgagtc tctttgggaa aattatttct 62580
ttagcccttag ttactatatt tgtaaatgga caataccagc tacttcatag gatgttttga 62640
tgctaggtaa gaattagtgt gcaggtgccc caaacagtgc ctttgcccca gcaggctgaa 62700
atagcagctt caaagctctt cctccacatc tttccagaaa gcaatcagtt gtttggtgct 62760
tgcaacacat ttttttttct tttctattcaa ggggtgttatg catgtctctt aggtgcccaa 62820
attgatgcac aaatgtgaat ttgattcgta atagatctct acaaatagaa caataaaata 62880
cattttggat cttattaaag ggctatctgg aagtcagtga cttagcagc catatcattc 62940
atattataca taaagaaaact aagacacaga gagcttcat aggaaaacct tgaaccacag 63000
tcctgaaaag cagtgggacc tgtcaaagt ctgtgggggtg ccaggcaggt gtagtgccca 63060
aggctctggc aagggtctgg taaagcgtga gcttctggcg ctggggagga ggagcatgtg 63120
ttctgacttc ctgtctcttt ccacctcccc gtgcagatta gaattagact tctcaaggg 63180
gctttagaag tgatgttttt cactatctga ctacagttct gtagactttt ctctactgt 63240
cttacagaaa cacataacat ttcaaatttc actgaaaatc tatattttca gttattccca 63300
tgtttgatg ctgtgaccag gttagcttgg gtatgtgtga gaataagggc tcatagcttt 63360
ggcatgtttc cttgtagata cttgactgtc atccttgga tgtcagggtg tgagatgtat 63420
tgtgatatga gtgtacctg aatctaagt ttctaataaa aatggttaat tacgtctgca 63480
agcttatgta aataccactt aaaaacaacg aacaaagcaa acgaacctt gtttggtaaa 63540
ctttttttgt agataagccc ctttccctt ttagttaata ttgcaaaaac tgagctggta 63600
ttatgtgagg atgtggatct gaggtcaaga gattgtgtat atatagtgt gtaatttttt 63660
tccatttagt ttttatgttt ctgtaaaatt tggggtatgt cgggctgcta tggaagcaac 63720
ctctttatat taataggggt ttacggaagc agcctcaaat tacatgtaat tttactcat 63780
aatccttata tatatggatt tttctcccc agaaaatagt gctttcctgt acattagatt 63840
tgagttcaga catgactctg ctttgccaaa tttaaaatta tgccaagcca aaaatgttta 63900
aaaagcatct atggattcct gaaggcagg cctatacaat agggacatcc atcccccttt 63960
tgcacttaag ggcacagtgg atggttcct tgggcttggt gcttgaacct agtattttatt 64020
ttaatctgaa gtggtggtgt ttttaatcta aaaaactcag tttcacagga tttctctgtg 64080
gatttaaatg ctcccgacta aatcttttat gcttataatt ggatgtaaaa cgcaagaacg 64140
tttttaaggt taagaacttt ttcagacaac tgtgatttta cttcactaat gaacacatat 64200
cagacaagaa ggcaaatcc agactgtttg tgctcaacc aagcagctgg gcacatacct 64260
ccaggtagtg ctcatgtctc aagaggtttt tctgcatgaa caattatcac cactccttct 64320
ttccttcaag tggcaagcca tggcaagagt ctttcttgca cagctgtata gaactcagct 64380
gtaaaattag attttattgg cataaaaaca cagtgattat cagcactgtg tgctcaatac 64440
attcttttct caacatttta cttagattct tctttttatg cagaaggctc aagctgtact 64500
taaataaggg aaacaggttt ttagaagttt ttttatgtgt ctttttttaa gctttagttt 64560
aatcaatatt aggtatgcag ggtaagcaat tggatttgaa gggaggaaac atactccctt 64620
aagatcagaa aggaacctta agggctaate tataatattg tcattttata agaggaaatt 64680
aattactgaa gttcagagct aattatttta ttgacaaatc ccagattaga actcatgttt 64740
tccaatactc agtgctggag cctgtccact atagtttttt ttttttttct caaagttttt 64800

```

tttagcatag gggatgtgaa aaattctaata aacagtttctt agtccctctc catatccttt 64860
ttttgtgcta cttaatgtga ttttttaaaa agcaaagggg aatgtttgcc tgaagtgtac 64920
aggagcgaatt agctcaagga aaagcactaa aacaacctct aggtttctcc tgtccaatgg 64980
cagtgtccca catcagggtc ataatggcga catgctaatt ccacatgggc agagccaatg 65040
ccaaggcatt ggtgtagtgt tactgggaag agaaagaaaa gccatattct cacagtagca 65100
gggaagtggc caaaacagtc aggtgtgtgt tgatggatga gcagattttc ccagaatttc 65160
agaggtaaag aagatcacat tgtgtttcta tttgtttta atgaaatttt tttccttttg 65220
ttgatgctgt tgggtgttcc atgggttatta tcaaaagcag tttctgggtt tgctgaaagg 65280
ctagaaatga caactatttt cagagtttct aggtcttgaa acatcagtca acctttcaaa 65340
gccagcattg atcaagaagg aaagagggtt ttctaattag gaaaataaaa tagtaaatga 65400
tactttgaca ttccattagt ttaggaatg tgtgccccaa ctgactacct tgctttgctc 65460
tctctctttc cctctctttt ctaagttttg ctaataataa aacttaggaa gtacacattt 65520
aggaaactgt ctgtccttgt gactgatggc atttatacat aaaggccacc cggggtgtat 65580
ggggggaggc tcatgaatgc agtttttctt ttcttttttc tgtgtatatg attccgtatc 65640
aaattttaac ttctagatgt ttattttttt aactgcagtc aaggcacaaa ccagtgtaaa 65700
tcagctgcac aaatgtttgt cataataaat ttttattagg ttttatattg gaagccattt 65760
agaaactagt cttataatca ctcataaaac attagctatc ttattgtttt acaagagtat 65820
gtagagtata gtaatttctt agtaacatcc caaatccgtc tttctccaaa cacaatacag 65880
caaagctgtg ttttctgtga ttcagtaagt cagattgcat tttgagtatt catgtagttt 65940
tccccacccc cctgaatcag gaattttctt ccccattat tattgttttc ttaaaaaaaaa 66000
aaaaaaaaaa agatgggggt tcgccatgtt gccacacagg gcctcgaact tcggagctca 66060
agcagctctgt ctgccttggc ctcccaaagt gctgggatta caggcatttt attactgtta 66120
tacaaatggc caggatgttt ctctgctgta tttctgaaa cttgaccac tatagattct 66180
cactattaga ggtcagtggg tatttttagt agagaaggaa attttcatga agtacgaatt 66240
gagctgattt tactgtgtct gtgacaatat atttttcagg ctacagaaca agcatgtagc 66300
aagcaaaatg ttacatgtt gttatgttta aagtgtgtga aggtgattgg ttaatctgtg 66360
ttggaaaaga ctagctttat ggagtacttg gaatcacagt taactatagt ggtatgaatt 66420
ctgatattat ttcaagttg ctttatgggt gcttgatttt gatgggtttt gaattggagt 66480
atggaagtga aaagttaaaa ctgaacacat acattctact tacttgttat gttactccat 66540
caaccttttt tttaaagaga cagggtcttg ctatgttgcc caggctggac tcaaactccc 66600
tggtctgaag ccatcatctt gcctcagcct tctgagtagc tgggactaca ggtgtgcacc 66660
accatgcca gttttccact gaccttttta aacactgctc caggatagtc aaagttagtg 66720
ggaggtctca ttaggtgtct ggtgaagtgg gcctgggagc ctgagcctgg cttgtaatta 66780
aactcaggga atcaattcct ctcatccagg ctggcccgtt gggtttggtt ctgatgggta 66840
tactttgttc cttttggtac tgttatgttt ctttttctct tgtcatttga aattaatttg 66900
cgtagtgtac tgctaactca catcttgaat taatgtaagg aaatttggtt cattggccct 66960
cagagtgagg accaggacat tttgttgta atttgaaggc cagtttcaca gacttaaaaa 67020
ctctcccagc agtgattagg gctttggctt taagttagac attcttccta gtatataatt 67080
gctttggccc tttgcagggt ggggctgcag ttctcttctg cgaatcgttg tttttcatga 67140

```

```

atttggcctg tgtctttctt agtataggct gggaccaaag taccatggaa aatcttttta 67200
gacttggaga agaggaagca aaataagaag aaaaaggaat aagctagttg cctagagaaa 67260
tgcaaaaact gaagatcttt tgtaatatc ttttaaagtt ttctttaaaa gctttgggga 67320
catatttggg tggaattaat gtcttactaa cagtgaggat ctgttcattc tgtttccaga 67380
gtgtcctgcc ccaaaccctg cgtttgagct cagggattgt tggaaatgcg gggctttgct 67440
agaaggtaac cagtggcttg ctttcttagg ggaaagggaa gttaatcaca agtgcccacg 67500
tggcagcctt tccctgtcaa tcaaaagaat agaactagct ggggtgtgaag cacttgcggt 67560
tttagtgta tggttggtta gggggagagg ttgcgagggc ctgtggttgt taccaaattc 67620
tttgaaatgg aagtatgggt acaaaacaaa taaagaatag gagagaaacc ctgggtgctct 67680
gtgtggggga aagaaaagtt catagaattc gacaaataaa tgcgtttag tagagatgat 67740
ctactttctg ttttttttct ttattagttt tgcagtgcatt ttcttcattt gtaaagggtta 67800
gttgatttca agaattggatt catgatcaca tctcctggt gtgttggggg acagtgtgga 67860
tgtgttacag ccttgaccaa aatgcctgag tctgtgata gatttggcca gctcagatac 67920
acatctgtct aggaaagaag gaaccagac caagaagatg agtgttagtc aggggtggttt 67980
ctactgagac tttttgacta agatgaaaat gagttacagt gcggttatcc agagatcaca 68040
catctggcct gctcagctac cttcacagct gatgatcagc tgggtggtgaa aaggaagact 68100
gcacaaagcg cacgaggaac ttctgaaact gtactcaggg actcctctct gtgtgtgtat 68160
gtaactgaca atctggccgc tcagcccaaa gaaaatttaa gacagcaaat ttaggaaaag 68220
gccctgagac tggagggagt gtggttaatg aagaaaagag aaagaaaaaa aaacattaaa 68280
attaagcata agaacttatt gggaggccga ggcgggcgga tcacaaggtc aggagttcga 68340
gaccagcttg gtcaacatag tgaaaccccg tctctactaa aaatacaaaa aatagttggg 68400
catggtggca cgtgcctgta gtcccagcta ctcgggaggc tgaggcagga gaatagcttg 68460
aaccaggag gcggagtgtg tggtagctg agatcacgcc actgcactcc atcctgggca 68520
acagagttag actctgtctc aaaaaaaga aaaaaaaaaa gtagaggtgg ggtgataata 68580
gctctgtata tgtaagggtca aaatgtttca gtaacatcct catccatcac cttatgactg 68640
aatacagtat tcttataaac tgtcctgaaa tccctaagaa aaaagctgtg gccagcctgc 68700
tctttaatga agaacatgtg taatttccat tcgcaatcat tacaacaaa tagagtaagc 68760
tttagttctt aaagttaact gtatggatga aagccttcca catccattgc ttctctttt 68820
aattccattg aaaagccttg tcggctttca tcaggtagg attcctgagg tctcctcaca 68880
gctgagttga gccaccctgt tgagagttaa gtccacgtgt agttttgtct cagttactgg 68940
ttaaaacaga ggaggttcac ttttgggttg ctgtgactat agagtgatga ctgctcatga 69000
caagccttcc caggcctcct ggctgactt aacctgcttt aactgttgat ggttttgcaa 69060
tgtggtttcc ccaattcaca acctgaatct gtgactttct actgggaaca ctactacgt 69120
ttcccttttc atgcctgggg aataaccaa aagatactac tgtgaacgct aagttttatg 69180
ttttcatgct tttatgcttt tctccttgc cttttctcta gtctgttttc tatggagcat 69240
agactaagtc atttctattt tatgatcatt ttaagggaca gcttggcagg cagttggctt 69300
ttaagtagtt gggcagttcc ttgcctcgaa ataattcatt tctttgtatg tctcttgcat 69360
tctaggcaaa taaaagtact ctctgtgtgt gcatggagca cagaaatggg gatttaaaca 69420
tcgttggctg catgtaggcc ccatctagct gaatctgtta ccttatattc ttgtcaggat 69480

```

```

gaagtctggt ttatctctgg tgaaactggt agggattaca aagaaggcct tggattcttt 69540
tttttttttt ttttttgaga cggagtcttg ctctgtcacc caggctggag tgcagtgggtg 69600
ggatctcggc tccctgcaag ctccgcctcc cgggttcacg ccattctcct gcctcagcct 69660
cccaagtagc tgggactaca ggcgccccgc actgcgcccc gctaattttt ttgtattttt 69720
agtagagacg gggtttcacc gttttagccg ggatgggtctc gatctcctga cctcgtgatc 69780
cgccccgcctc ggcctcccaa agtgctggga ttacaggcgt gagccccgcg cccggccgaa 69840
ggccttggat tctagcaagc tgggtggctga gggaaaagat cagcaatact ggttatggct 69900
aagtgagact gctgggctca cagtggcctt tattcacttt tattatttct tctgttttct 69960
ccatgatcaa cgggtgtgact gttgggtggt tgaattgaaa cttaggagtg tatgatgttc 70020
atatgttccc acttgatctt tctcaggagt gtttgtacat acagcctccc tgtctcccct 70080
tctccatcc cttcccagtc atttctagta accactgaac actgtatgag gtggaaagtc 70140
catcacgtag tagagaaaaa gattcaggca tctcacctaa agttgtctat gaagttttca 70200
aaagcaaata taatgatctc cttgtgccag tggacttctt tggttttattt ggggggtaaa 70260
atgccttatg aaaagagatg gttttgcaca tctgtgtcag tccccatact cttctatcct 70320
acttctgtaa ggcttttgtg ggcctgggtc tgggggatcc atctacctta tcccacactt 70380
gcagaacctg gagttaatgc cctgcttagg acttgacacc tgtgcttaag ggtgctattt 70440
agcgggggtg gattgctatg tctcattgac agcggctctg ttagttaaca caatgcctac 70500
cagaaggtta gagttgtag tgtagatgt gttgttggtg ttcagacatt cttcgggtact 70560
agagacagga gaccaggaat gcctaaatat tgtaccagat cacaactgtc ttctcttact 70620
cagttcaacc tccccattcc ctacaggac tcacacaaga aacaatgaga aataggaaca 70680
aagtagcacc attatttggg tttgagctgc aaatccaagt gttcaaaact ttggttagat 70740
gggttggacc acatggagta tagacagctt cagcccaaag caggtcctaa ggaccctcat 70800
ctcccccca tttgaactct ctaaacctgt atcattatth actgtacgct ggcctaatag 70860
aaggacctat ggaggctgaa gggacctaga gtgaggcctt gaaatgggtt tactcctctt 70920
gccttgttgg ataagagaga agaggttcta tccttaggct cacctgtaag atgtcagagc 70980
tatgccaagc aggagagggc tttggcactc gctaattgtag cagaggggat gcagagaaga 71040
caacagagcc acagtctgca ccacagcctc aatagcaagt gcccaaggag gagggaagaa 71100
aaggtgaaat tgcttctcca cccttagatc cttatactca gaccccctaa tgtaaataac 71160
caccctgtta atccaacctg cgattttgaa gaaacattaa ataagacatc atacttagca 71220
ctttgggagg ccgaggtagg tggatcacct gaggtcatgt caggagtcca agactggcct 71280
ggccaacatg gcgaaaccct gtctctacta aaaatatgaa aattaggcgg gcatagtgggt 71340
gcgtgcctgt aatcccagct acttaggagg ttgaggcagg agaatcgctt gaacctggga 71400
ggtggaggtt gcagcgagct gagatcatgc cactgcactc cagcctgggc aacagagtga 71460
gactccatta aaaaaaaaaa aaaaaaaaaa gataggcctg tgtaatgtca tcaatttgag 71520
aaaatagcca tttttctctt atgcattatt agtaagataa agtatattag gaatgaaatt 71580
gaaatagaca ttagatttct tctccatcat ttgacctgtt catagtcca acaattaagt 71640
catgatagtg tcaacaggga ttatcttaat ttttaattgta aaagaatctg ttttctttca 71700
tgaggataaa ctatcaggct ttgggcttgg tactttttatt tgcttaggaa ctgagtaatt 71760
gcctcataaa acagcatgat ggtactatta acaccgaatt ataagacctg ttattataga 71820

```

```

atttgctttt ctagttggga taagacttca ttttttggtg cttaaaataa ttagtttctc 71880
caaatgggtg tataataaac aggtaaaatt ttgcctatnt aaagtaaaaa agtttataat 71940
ctcttgggtg gcttttatat atcttttgat acttccaagg gaggactttt tttgggtggg 72000
atggagggag gagaggatg cttgacgttt agagtggacg tgtttaagaa tgagaataag 72060
tattttatnt ctgtcatatc tacctgagac atatttgagg cagttattaa caatnttgcc 72120
ccattatntt gtctgatttg aatattaagt attaaagggt tcattgacca aatgtccttg 72180
aatttgaaat tttggggact ctattatgag tgataaattt aactgcgagc tatatggcaa 72240
tttgttcctg agatcattta aaattgtgtg agagcgtgtg tgtgtattta tatttgttcg 72300
tttatacttc tttgtccatc tttgccatat attttgggca taattgaaga ataaacactt 72360
cttaaggaac aagttataat tgtaaataag aattaactgt tattttcctt ctattgtatt 72420
gcaaaagtaa atgatggtg cagataccac tatgggatga aagtaggctt tgtgttattt 72480
tgaaaatgtg tatgaatttc attacaataa atggaataaa cggaatagaa acaacggaat 72540
ctacctttta gcctgactga agaagttgcc ctggatatat ctgagataca ggaaagttat 72600
gttcacatgg ccacttagag attctggtct tttgtctcct agttcaggct atttccgtgc 72660
ctttgttcta cccctctttg gggcctgaca taataataca gggctctcaa attagaataa 72720
cttgggtttc acgatggagc acttagattg ttatgtgact tgttgtgtta caggtgattt 72780
ttgtggttct gagtccntt taaaaagcgg cggttctctt gcaggaagcc agttgaggga 72840
agttctccat gaatgtacgt cacaatgatg atgaccgacc aaatccctct ggaactgcca 72900
ccattgctga acggagaggt agccatgatg cccacttggt tgaatggaga tgcagctcag 72960
caggttggtg taggaagagg gaaatttaag tcaaattgtc taagtgggaa acagtaacac 73020
agtatttgat ttattttggg attcaaaggt ttgtgatttc aaaccttagc atttctagag 73080
gtaagtgttt ttgtttaga aatactgtat cgntttttta aatgtgattt tagagaacaa 73140
aatcttccct cattcagttt gtattcttga agtattgaaa aatggatgac ttctgaagtg 73200
agtcatnttc agactgcata aaagtcttcg aaataaaatg actgtnttatt catgctgtat 73260
tgtgcttgac tagtttgctt ggttggccag agctgcatgc tcagagggtc aggtnttggc 73320
ttcacacagg agtgatctcg acaagacacg tagggcagtg tgaaccacc cttgctcctg 73380
gaatagtcct tccaaatgtg tagtcataa aatcacggta cttatnttct ctgaatctcc 73440
tttgtcacta gtcactgaac attgtggaat agagtnttt gtgaactcag tcaagtagca 73500
cttgggggaa acaatttaga cagtaagtga aactttaaca aattattagg gattgaacta 73560
ttatctctaa cattaattaa aaatntttat tgcaacagtt gggcttgcac agnttttaca 73620
ctagatnttt tatctttgta catccttcag aagcataaaa gcgaatnttt atnttgtgaa 73680
aagtagaatt gggagcaatt gcttggaaaa taccctaaat atactaataa ttcaaataag 73740
ttaatcattt atttgatgtc agtacatgcc cctgctcta atctatcata cagtatatcc 73800
aacctctgtc tatcgtagta tnttctttgc atatacttg ttggagctga cttgctgct 73860
taataatnta tnttntttc tcctgcattg tactatcaac ctcttaagaa caaaaaatat 73920
ataatagggt ctcagtaaat gtttgttagt tgaatgcatt tcatgtcttc tcaccactga 73980
tgcagataac tcccttctg attcctcagt ctcttctct gctggattac ttccaccaac 74040
atacagtagt atctnttatc ttaaaaaag aaacacctgc acctctcccc acccaataaa 74100
acaaaacctc ctcagttgat tccacatccc cttccagttg ctaccttctg tccctntttc 74160

```



```

cctctttggc agtatttctc cacttcctct ctttccttac cgcccacttt acagtcttca 74220
ctctgtgttc tcactttcct cttcagtcct tagcatgttc tgttggcttt atctcaggag 74280
tgtgtgctga atccatactc tgccgtatcc acttcacttc cactaccact gctggacccc 74340
gtgccgtcat ctactaggg taggacagga caacccttct cgctggcttc tctgctttcc 74400
cttttgcccc accagaaagc agtctccaca tagatcctga ggggtctttt ccaaataaaa 74460
actttctgat gtcatggcc tacctcaggc cacgttctta cacctggagt gaaatccagt 74520
catgctgcct ggctgccagc cttccgtgtt agtgcctggc tctctctctg tcattctctg 74580
cctgctcttc tgctcactgt gctcaagtag ttcatgggaa ggttgccagag tgttgtggat 74640
ggtttcaaga tgcagtgttt ggtctcccaa ttaaaagaat tactaataca aagaaaaaaa 74700
aaagacaagg tatttagtca aatgtgagta aacttggaaa atgacttagg tctctcagat 74760
gtggtcacct cattcccatt tgctgtgta gccaaagac ctgaggccac ccatccatgt 74820
tgttgtacac catgtttatg ttttgttgat ttctcccaca tgtctgtaat tcagcttgcc 74880
cagcaggcta cgtggcattt ccctacctg catatcttac ctcaactcta agcagaagct 74940
gcttaacaat tttggttaat aaaaccatat tttcaaagct ggatgaggtg gtgcatgcct 75000
gtaatcctag ctactcagga ggctgaagta ggagaatccc ttgagcccag gagtttgaga 75060
ccagcctggg caacaaagt agaccccatc tctaaaaaga aaacaaaaac aaaaacccgc 75120
atttttatta aatctttttt taatcttatt aaagctttct cttaaagctaa taagaagaat 75180
ctgttaatgt atctgtttta taaatagtca aaatactcaa gctttatgaa aaagtggggg 75240
tacacttaaa aaatctcaca agaaggaact gttttgtctt ttaattagt aaatatgttt 75300
gtgttagaag cattaacatc cttggttcca agctattact tggcattaac tctaactttt 75360
ccttaatggg caaaattgtt aagtgggtaa agtgtgttag aaatgtccct ctgagcagga 75420
ccagcccaag atttaccatg ctttgtcatt gcctctacat cactggggct cagcctaggc 75480
agtggcctct gtgcttgaca ttttcttcc tcattctgct ccagagtct ccatcctgtg 75540
tctcctcatt ctttcaagcc tcagttcttt ctttgggtt ctaacattta gcattggcct 75600
aggtgtgctg ggtagaggct tggggcctgt gggttgaacc caggtgaagg cacaagggga 75660
agacagagtg aaggagaagg aaaacaaaa gtggcagaga aacacaagag gatgtaggga 75720
aaggggagag atagagggcc attcaaaaga agaaagaaca aaggtgagtc tccaagacag 75780
gatcccagag tgtggggctg catgagtttt gaatgcttgc tttgggcacc tgctgatgtt 75840
tgctgcctgc ccttaagagc ctgcgtaatg tgggtgctcag gtggttccat gttaaaggat 75900
caggctacag cagacatacc agagaaagt atctatatga atgttttctg aggcttttac 75960
tgtgctttct cactgaagca acacctttt atcttaataa gaaccttttg caggcacagg 76020
attgactcta ggggtggaca ttgcaggcac tgtacaacag accctcggcg gtggcatcct 76080
aaggtatgtg gcacctcagc cacctctcac atcatacagt tgtaagagc catcccctgg 76140
ccataggatt ctgcctctga atatctgtta ggagtgtgta tgggtgaagct taccttgat 76200
gtatttacag cgttcttaat actttgcagc tgtgcaaagg acattctaaa catttctata 76260
tatgcaaaag aactaccaca gttatgagaa agctctgcag tccccacagc cctcctcctt 76320
ctgatttctg ttctgctggt tctggatgta attaggacta gttcttggca ggattctctg 76380
ttgcgttctg gctctctaaa taagacacac tgtaattttt cattatttga agtcaaatta 76440
agtttgaaac cttggcttgt cattttgcgc aggtaggagg gaaagggcaa gagtgaagg 76500

```

```

gatgattatt ttcttaaaaa gaaaagtcac cctcattacg aatgaagctt ttaaaagcat 76560
tatcaactaa aaataaataa caagaaacaa tgtgaacaga agcagcttac acagttttcc 76620
ttatttaaca gctttactga ggtataattc acatgtcata ccattcaccc actgaaagta 76680
tacaatcatt ggaatctggc atattcacag aattgtacaa ccttaactac aattaatttt 76740
agaacatttt tatcactcta aaaagaaccc tagagggatc actccctatt tcctgtttct 76800
ctctcccttc ccccgctcct aggtaaccac taattcactt attttctgtc tctgtaggta 76860
gatattgcct attctggaat ttcatataaa taaaattaca taacatttgg tcttttgtgt 76920
ctggcatctt tcaccaaca tctttgtttt ttttttgaga tggagtctcg ctctgttgcc 76980
caggctggag tgcaatggca cgatctctgc tcaactgaac atccaccttc cgggttcaag 77040
caattctcct gcctcagcct tccgagtagc tgggattaca ggcatatgcc accacgcctg 77100
gctaattttt gtatttttag tagagatggc atttcacca gttggccagg atggctctga 77160
actcctgacc tcaagtgate tgcccgctt ggctcccg agtgctggga ttacatgtgt 77220
gagccaccac gcccggttca ctcaacacat ttctaagggt cattcatatt gcagcatgtg 77280
tcagtactgt attccttttt tattgcaaaa tattttactg catggatcta ccacatttta 77340
ttaatccact catgatctga tagacatctg agttattttc actttttggc tgttatgaat 77400
aatgctgcta tgcacagatt cttgtgtgga catgtttttt atttctcttg tatatataac 77460
cgtatatata accaaaagtg aaattgagta gctttatttt gaagtattat tttccaaata 77520
aagttatctc tgctttgtat caccattaat ttctcccacc tctgaataac tacagcctag 77580
cttagctaaa taaagtttgc ttcccttaat atgcctaatt gtatactatt gttgagttat 77640
aaaaatcagg tttcaacctg agtttttaat gtgtggctat tataaatgat gatgaatgcc 77700
cttcaataat cagaaaattg atgcctttgt tgacattttc agaagcttgt ggtatattaa 77760
cttacctgtg tttgttatgg acttctgcat tttagcgatt ttaaaatgta gcagccagtt 77820
ttgcgcacaa aagaataaac atcagcccaa attctgactt tttattgatt taatatttta 77880
ataatttctg aagaattata gcagctacca gttaaaccat tagattaaaa acagaagtgt 77940
cgacataggg tggcagagtt tactgatttg ttaatttaac gtgatactta taagggtatc 78000
tgtgacctgc atgagagtag tgtgccactt tatattatat tcttagtgac tttgcttaaa 78060
tatgtattca ctgaggggtc attcctagtg gaactggatt ggattagata cctctttgac 78120
ctgactagca tttagcatat ggaggacatc gagtaaata tttgtcatac tattcttctt 78180
ctctcttgcc tcttttaatt cttctattct tctagaatat tgctgagtgt ttttaatgct 78240
tcttcttcag aaagtagaac tccttaacaa tatacagaaa actcgcttct cctgctagct 78300
caggataatt tatcatctac ttgccttga aggagaagg caattgcctc aatcatgtcc 78360
aattctcttg actttgccta ttctgttga tcagcactta gcatgtcatt tcatggagag 78420
agtttttttc cctcttttgt ttcttctttt gaaagccctt gtttctctta ggcagaatat 78480
gtaaccagag ttttttcctg gagtgttctt ttgaatacac atttccagac agtatgttca 78540
acataataaa gctttccacc ctgagatggc gctcatcatc agcatgtctt ttccatcaaa 78600
tgtgcccctc ctctaatcc agtgaccttt tctgttctgg ttgatatctt cttataaact 78660
ttcttcttga tggcttccgt cttgcattca gtagttcaaa tcctgtcacc tcacaggttt 78720
actccttaaa tatactgata gccacggtgt cgggggaccc gtgaagagtt ttgcttacat 78780
aacagagttt gtctactcct cagaaatccc aacagaaagg aagttttgta atcagtatat 78840

```

```

ttagaaaaa tgaataaaca actcttgaga cgattaccca ggagaaagaa ggatattcag 78900
atgagaatgg gagtgacagt taaaaaagag actgcagcta ttattgctaa ataacattat 78960
agaagagctc cttttgtggc agaatcctgt tatgggctgg gacttgagct agaaagtaga 79020
aagaggctgg tcatatgttg ggtatggaaa accaagtatg gggaagctcg gtcttgatc 79080
acattcttca gcatcaagat gcgtgagaaa tgcacaacct gtgcaaatac ttaaatgaaa 79140
ttattattgc tgactgccgt tcatgcttcc tctaccactc aaatttataa agccctctgg 79200
agtcaagata ccgtcagcct ctctcctttg aaatttgggg tggaaaagaa tgagaggata 79260
ggctggcatg ttggctcatg cctgtaatcc cagcactttg ggaggctgag gcgggcggat 79320
cacgaggtca ggagatcaag accatcctga ctaacatggt gaaaccccgct ctctactaaa 79380
aatacaaaaa aaattagcca ggctgtgttg tgggcgctg tagtcccagc tacttgggag 79440
gctgagacag gagaatggcg tgaacctggg aggcggagct tgcagtgagc cgacattgaa 79500
ccactgcact ccagcctggg tgacacagtg agactctgcc ttaaaaaaaaa aaaaaaaaaa 79560
aaaaagaatg agaggatagg atttatgact aaatttagga gtgactgaat aatagatttg 79620
ttcatTTTTa taagtattta tcaaatgtct tatatgctgg cagtgtatta ggtgctggtg 79680
acagaaagat gaataaggca ctgttcttgc cctaaaggaa tgagcagtct agttgaggag 79740
caaatgtgg cctaccaaaa aaaaaaaaaa aggctgtatt tacacatacg tgaaatcaca 79800
ggagagtgtc tggattgcag agtgtcacag tgcttaggag ttcagaggag gaattgagga 79860
ttgggataag tgggcaggaa aacagaccag gctaggaaaa gtatctgttg ggaggctgag 79920
cctgggtcag atcagatcta agatgaagtg aaggctagaa ctatccagac tttgtacatc 79980
aagtaatccg tttctgtttt attaaaggag aatacattat agggattaca tatgcagtgg 80040
agagctatta ggggcactac aaacaaacct tatctgcata gtcggtgatc tctttgcttg 80100
aacttctgct acttagtgtc tttgttagtg aatgtatttg tcctctgatt ctccagtccg 80160
aaggctccacc cgtccgcttg atgcctgttg ctgagaatta ctgactccac agtggggcag 80220
atcacaagca cccccacaa ccagatccac tttccagct gcggaggcag caacccttgc 80280
tttgagggcc tccttttaac tataaaaaaa aggtgtgatt ttatccagat ctgtggtctg 80340
acttttcaga tctctctgag ttagttttgc caattttgct cactacaaaa gcttccaaaa 80400
aggcatagcc tatgcagaat ctgagtctta caaaggaaaa tgttgatgcc atgttatcag 80460
agggtgttgt tatatgtggc accccaata attagaacat aggacatata attatggcag 80520
ctctgagctg tctgggttga gagacacttc agaatttaat tagccaaagg caataataat 80580
aagatataag atgtagtcag tatecttcaa atgctagaaa ttgagctgcc cttaaaacag 80640
gaaggattaa ggtaaaaatac tggcatggta gcattgcact gcagaataat ggcaatttta 80700
aaatctaagg tgatttttaac attatgattg ttttcaaatt attgcaattt ttggctgtct 80760
gatttccttg ttaactcagg gtgggtaggg actgtccctc tcttgttcat gctgtgcctg 80820
gcactgaag taacattcag taaatctttt tgaatggatg aaggatgaag gcaatgaaca 80880
gatttaattc atctatatca gggcttgaag agtagcttat tgcctttgtc atacaggcat 80940
gggggggggt gtgtgtgttg tttttgtttt tgttttttta ccttttagttt aaaagaaaaa 81000
gatttcagta ccaatatata aaatgggaag atttatataa aactctggat ttttctgttt 81060
aattggaaaa accagaagac atacgcctgt aatcccagca cttttgggag gccgaggcgg 81120
gtggatcacc tgaggcttag agttcaagac cagcctgacc aacacggtga aaccccgctc 81180

```

ctaccaaatt gccgggcgtg atgctgcatg cctgtagtcc cagctactca ggaggctgag 81240
 gcaggagaat cgcttgaacc caggaggcgg aggttgcaat gagccgagat tgcgccattg 81300
 cactccagcc tgggcaacaa gagcaaaact ctgtctcaaa aaaaaaacia caacaacaac 81360
 ccagaagata tgftaacact gggctgggtc ttctactctg gcaacaattg gcacagaagt 81420
 tgcagccatt tgctgttgat gcggaatgtc ctcttcgggt cctactctgt ccacttcact 81480
 tagtttccga gcctgcctga actctgtggt catccgggtt tggaatctgg aaattgttaa 81540
 ctttttaaac tttaaattgc atcttgtgct catgcatatc atatttttaa tacagaaaaa 81600
 tgattaaaaat tttttcaggc atgtgcattg tgtatcaaac tgataatgtg ttttaaaatc 81660
 ttttagttat ctacttgcct catgacttgt aaaatgaatt aggctgggag ctggttcatt 81720
 ttgctttgta gaaggatttc aactttacct cttacatgtt aggaccctg tgggtttttt 81780
 tgttttgatt tgttttttgg ctttttagtt ttaggatttg aggcccccac taagtgcgc 81840
 atggaacatt cactaaagca tagacaggcc aaaagaaaca atcctattcc ttagttttac 81900
 tgtttacagt ctagttagga gacattaaac acagatgcaa ggtaaaagca gtccaagcgc 81960
 agagatgcaa atacttgtgt ttatattctt ttttacagtt tccaagaatt gagtctttaa 82020
 gtattttatt aaagagttgt ttttaagggt aaacttttcc tgggtattacc tagatgagga 82080
 atttttatct aaagcattta tgtatgtatg tatgtaagta ttttaagacag ggtctcctta 82140
 tgttgcccag gctgggtctg aactcctggg ctgagaggat cctcctgcca tggcttccaa 82200
 aagtgtctggg attacagggtg tgagccacta tgcccggcca taaagcattt ccatattaac 82260
 ttttaagac ataagattaa attggataga tttccaaact ctgatttctc cttttcttgt 82320
 tttgaaaatg tgtatttgct atgttgaatg tgatgtgata gctactgatg tatctcatag 82380
 tacagtaaaa gtagtctata aacacaggaa gaaaagatga gacacttctg catccagaat 82440
 gtgttaagac gagacacttc tgcattccaga atatgtttgc acataatcgt tttcatgtag 82500
 gcgactctt ttctttttta gtccaaatga ttgatttaaa catatgacta tataaaatat 82560
 atgcgttaca ctccaaacat gacagtagta agcaagctgc gtaaaattcg taacattaat 82620
 ctccaagttc caaatgcaga tactcattct cgttcttttt ttttttctct ctctacatt 82680
 tccaaatgca aaaataaaca gcctgccaag gagccagttg ctgaagtgtg gtagtgtttt 82740
 atctaggtaa tcttggtatt agctgccttt agattatatt tgttccctca tttaaattgg 82800
 cattggccag aactagatgc ctcttagtca tttctgggtc agctttaatg ttacaataac 82860
 ttgaagctag acatgggtgg tccccagaag aaacattatg catgtgctgc tttagtgtaa 82920
 atgcctacat tgggtatttct tccctgcctt gggccttttt ccttaacagg tgaccatcag 82980
 atcagatcat ctgttgagag ggaatgtgtt ttacctgagc agcaggtgtg ttcagcactt 83040
 tgatgaacaa gaataatttg gccctccctt cctgggtctt ctctttcttg ccccttcctt 83100
 gctccttaca gcatagtaga caagcatttg aataaaatgg acagtctgca tttagcaaat 83160
 tacccttcca agggcttctg ctttgcaaat aattgggcag ttaagtggag acagcaaaga 83220
 tccagaggta attgtggtct agttttgggt gcaggttgac tagaaagtat atcagtaaac 83280
 ttgttactaa ggttccattt ctgttgttta aaaaaatgca aatcagttct tggtagccac 83340
 accttagatt tgaagggaca tggacttggt ttattgacca attatgttac atgactttta 83400
 gttttcagga agggtcatta atatgttttg tttttgagac tcactctgtt cccaggtctg 83460
 tagtacagtg atacagtccc agctcactgc agcctcaacc ttctgggctc aagctatcct 83520

ctcacctcag cctcctgagt agctgggact ataggcatgc accagcatgg cctggctact 83580
tattttttatt tttttagag atagtcccct tatgttgccc aagctggtct caaactcctg 83640
gtttcaagcc atcgtcctgc ctagacctcc caaaatgtgg gattacacag gtgtgaccct 83700
ctgtgccagg ccttaaccaa accttttgtt gttgttgta tattcatgca atcagaagtt 83760
gataattttt tttttttgag ttgggggtctc atcttgtcac ccaggctgga atatggtaaa 83820
atgtttttgt gttttctaag cagtagtcag aaacattaat cactgagcat gttactgtct 83880
cagaagtttc tttggtcttt atattggagt gttgagttgt cattctagtt caaggagaa 83940
gctgtgacat acagaaggat gtgctttaat taatgatgtt gtttggtagt taaataggcc 84000
acagtaatgc agctaatttt taatttttgt tttatattgc cagaatggat ctgttttagaa 84060
cccatttaaa ctcttatcac cttggcaaaa aagtcacatg gaaaacatct atatagaatg 84120
gctattttctt tataatttac ttgatggctt tagttatgac tgaatgtaaa actataatat 84180
aaaatattaa taagaattac aaatgaatgg catccatatt tttctcttag ggtttgtgat 84240
aggaaatcag atactaggtt tatctatatg aataatatct gtctgttttc aggacacagg 84300
gaatcaattg atggtggagt tgggtgttag gagacattat cctttcatag atcgggtgcc 84360
acatccagct tacttcccac ggtctcttgc tttctcattt ttaaagtggg ttactcggga 84420
tgagagtgtc cctacttttt attgactact tctgcacact tggaactttt ttttttctct 84480
ctagatgaag tcttgctctg tcgcccaggc tggagtgcaa tggcgcgatc tcagctcact 84540
gcaacctctg cctccctggt tcaagcaatt ctctgcctg agcctcccaa gtagctggga 84600
ttacaggcac ccactaccac accctgtgaa tttttaaaatt tttagtagag atgaggtttc 84660
aacacattgg ccagtctggt ctggaagtcc cagcctcaag tgatcttccc gccttggcct 84720
cccaaagtgc tgggatttcg ggcgtgagcc accacgctg ggccaatctt ggaactttaa 84780
agagcctcca ttaacaaggc agaaagataa gtgtcacacc aggtgtgaat gctgtctttg 84840
gagggggaca gtgactcatt ttctaacaat tactcttaaa cctagaggga aatgtaggac 84900
aaaagatgct gtaaggttga ctcttcaga gatttcata ccttagcaat ctaaaaactg 84960
tatgaaaggc cagagttagg actttgaaag aatgctaagt gttaattttt ggcatttacc 85020
tcaaacttaa gtgctacttt ggaagcctgc tgattactag aatgctttta gtctcaatcc 85080
aatctcaact tttacttgag tggttatctg tggacactaa gttaaaattg ttggaaacag 85140
tggtttttta tggatatttt tatctctttc ttctgcca ggtggaggga aggattagt 85200
actattgggg agggcttacg aggtgctggg gctggtgctg agcccttaca cacattattt 85260
catccagtaa ttacacacgc tgtaaggcgg cagtcattct tatagacaaa acccgaggcg 85320
agaaagggtg agtatttgca actggcaaat cacagagctg gaatttgaac ccacttatct 85380
cctcttccaa aactcagatc ctacctctg ggaaagggtg agctgcctgg cttggactca 85440
cctctcttag tcttgttcag gtaaacagct ggggagcgag atggcacttg gtttttgcac 85500
agtagtaaat tgtaaaacttt atagaggcca ttctcttcca ttatcttaca tgatctccac 85560
attaactcca gaagggtgca gtgcctctgg ctccccagct tctgaaaatt gaggactaag 85620
cagcagtggg agtgtcgga ggcctggagg tcaggcttgt gtttgcaaaa ggagctggga 85680
gtgaaatctt ccgaagcccc agtccgggtc acagcagcgg ctcccttttt tccttaggga 85740
atggttcttt tcttgagatt ggcagtagga gggctgctcc ctcccgggtc agcagttgct 85800
gagagatggg ggtggccaga gaagggtagt agacggtagt agtaggtaga gatagtagag 85860

```

gtagtagagg ttccctcccc gtgggagtct caccctggag ttaggagagg gccttttgcc 85920
taccttttct tcccaaacc cgtccttcat ttccattaaa aaattgcatc accctagatg 85980
cagctttgag actaaagaaa tttaaaacct tgtaagattt gaacacatta ggtgggtttt 86040
cattctgagt ttacagagta atgccagaat aaaagaaaca aagtgtatcc ttcaaaagga 86100
aagaaaatgg ccacttcgcg tcacaggtat ttcttaaate tctcgcttct acttttcctg 86160
ttttctaagg ggaatacaga attaatgtc acgcagattt ttactatgag cagtataacc 86220
gtaccgggtt gctcatgagt tcctcgtttt ctttgtttta ggttgatgaa ggactgcttg 86280
gactttgact ctctgaaga tgtaattat atgtttcaaa aatcatgtgt tctgctaaaa 86340
atcacttatg catagccttg gaaaaagaac tggaggcagg gagttgcttc aggggtgcaga 86400
atatcgtttt ggaggccttg ggaaataaat cttgagttag ttcatttacc accaagacat 86460
atttagtcac tgtatataaa caaaagaagt cacagtgtgc ctggacatta tttgtccag 86520
atggagtttc aacttggtc attatactgc actgatgtca tggtaacata actggctccg 86580
aattcaacgt gcatagaatc ggctgtgtgc ttgtatgtgc tgagggtgtg cgggaggagg 86640
ggcggggctg gctggaaaat ctttgcaca ttttccctt gctctctgta gaggctagt 86700
tcagtcttga atttgactt ggtgcagaat gagagaagaa ttggaataat ctgttcatgt 86760
gtacaagtca gtgtgtgtat gtcccaaaag ctgtagttct tccaagacca agaactaag 86820
tgtgcctggc tttccaacag ttgcttaaca aagctctagt aactcaaate tagaaaggaa 86880
aatcttaaaa gcattacatt ttaaaagagc attttttagt tgtttgctt gaagtcttaa 86940
atctggacag ctcttttcaa ctttgtaatg gtcttaagta tccagctgta aaattctgtt 87000
ttcctggatt gtatgggtga caacgtctca aactagttgc ttaaaagtat ataaaaaggt 87060
ggccgaattt aattcttct gtgtgctttg agagggcagc ttgtgggtca gaaaactgag 87120
ccggagaggg tcctttcctg gacttctgag cccttaatag gaaatttcca catactgtgg 87180
tgttacttta ttacttttta ttgctggctt ttgttatgat aatcttaatt agaagcattt 87240
ccaagtaatt caaacattt ttagatgta aagggttag atttcagaac ttctgtgaat 87300
ggattcctat aggagtcact cttgttgccg ggacacacag aagctgagca gacactggaa 87360
tgtgaatgca ttgggaggtg agcccttaag gagagcccaa atgtttacca aagagaaaat 87420
ctggctcagag gtgagaagt gctggtttta gattttatcg agagcatgaa acatggcaga 87480
tttggtaaaa aatttttctt gagactgtaa tttacttaa ctgagagact tgttactggt 87540
aggaatttga agaaaaagaa gttgggggta gaaggtctct cttcaggag gaacacatat 87600
ttcctagaag agaactgtc ctgcctttgg ggatgttctt ttgaccagt taactgcatt 87660
ctcttatatt agcagtctt ttgaattatc tctgtattga attgacatgg tgaaaccacg 87720
cctagtagag gggagaagt gtggtgtgga ctagacgagt atacattttg gtcagacatg 87780
gctggattcc agtcactttg tagttttgtg accttgaaa agttgcttgt cttcttcaag 87840
cctcagtttc ccacttgta aaatctagtt actatctacc tggcagatga cagggttca 87900
ataagtagta gctgtttctt aatcattgta gaaaaaaac ctggaaaaag gagttgataa 87960
agtaccctgc atcatgcaa attaatctta cagacacatg tgatattgag gatacagctt 88020
ttttttaaac aaagaacagc acatttttat ttttaagttt tatttattat tattttgaga 88080
cagtctcact gtgttgccca ggctggagt ccatggcaac tgctgcctcc cgagttcaag 88140
cgattctcat gcctcagcct ccagagtagc tgagactaca ggcaccacc attaccccg 88200

```

gctaattttt gtatttttag tagagacagg gtgttggtca ggctggtctc taactcctga 88260
 tgtcaagtga tccatctgcc tcagcttccc aaagtgcctg gattataggc gtgagccacc 88320
 acacccggcc gaggatacag cttttgaacc ttctattctt tgaagaaaac agtattaaaa 88380
 cttttggagt agtggatatt ctgtctcctt attttgcata gtaagagtcc taaagcccag 88440
 gaaaacatat ttgccatgta tcctacgggt tgtgttgagc aaggggagct tcacctacaa 88500
 tgtgtaccct tggaccttga gttcccagtg tttgcttagg tccccttgga ggcttcctgt 88560
 tattgtatat tatttttcaa tcagctttgg attcaggctt caggtagggc agtgagcaaa 88620
 atgaggcaat ggacacattc acatcttctt ccaggatctt tctagtttac ttgcttatgt 88680
 ttttaatcct gggacatttt ctttgcattg gttattacca caaagataaa tatttggcat 88740
 tcgcacccca tcgcttccct tttcctgatt tggagaaaag agggggctca aaacacaaat 88800
 actgcttact tttcagtttt gctgaggcc agctgtgttc tatggcacac agactggggt 88860
 ctcaaagggt tgtgtggatg aacagtttgg gtatgggggc ctgggaagag cttggagatt 88920
 gggaatcttg ggggtggggc tggggagtgg ggagtggga gtatgtgtga ccagaaaata 88980
 gtagcatgag gaatagggtg tagtactctt ctcatgtagt caaaggtcac ttttgaagtt 89040
 attaggtatt cctggctaga atccttagtt gcgtggaact cctctgcagc ttttagattg 89100
 tatcattttc ccccttaaag atacctgttg gataatcata aatgtgggct ccaagggaga 89160
 agtattcatt tatacatgaa aacaagctac acaaagtgtg gccagtggaa aaaactctag 89220
 aagtgaatg ggatctcctc tctggtatgg tttatatctt gattgtctga gggttggatt 89280
 taacgcttaa aaatgctgca agtgactat tttgtcttg gtcagttggt actcttctcc 89340
 caggaggagc ttttttttgg gagacagtct tgctctgttg tccgggctgg agtgcagttg 89400
 gcaccgtcac ggtttgctac agcctcgacc tcctgggctc acgcgaccc cctgcctcac 89460
 cctcctgagt tgctagaact acaggaatgc accaccatgt ccggctaatt tttacaatta 89520
 tttttgtaga tatggagtct cactatgttg ctgggggttg tctggaactc ctggtctcaa 89580
 gtgattctcc ccgtctcagc ctcccaaagc actggaatta caggcatgag cctctgtacc 89640
 tggccagaag cttttttgat ggactgatcc attaccctga ttgcttattt gactgactgg 89700
 taattttttt atttgaggca taaattagac atttgcctcc aggagtagtc ttagatacta 89760
 ttggcacctg gttaatcagc cacccaaggt ttaaattgca aaagtagcct cccttttctt 89820
 cttttaatga gtataaaaca gagttagggt tagatttata cctgtaaagg aaagatatta 89880
 caccttcttt cagtctcctt gttagacaaa gaattcccat gatgctgtgt ttactcaatt 89940
 gtattaattg caactcttgt tttattgttt ctctggactt tggaagagtg gtcacttatt 90000
 tttcattaaa ctttgataaa ctgccttctg tttatttcca gcttcttggt tcatgtaaca 90060
 ctaacggttt tgaaacagat ctgatgaagc aatagtagct tagaggatgc tcccatgatt 90120
 tgattagcat ggttcttctt aagatctctg gagaaaaaaa atatctagtt aaaatctttg 90180
 tctttttttt cttcctctga agacatggtg cagtatgaat cagtttaatg ctgacttttg 90240
 aaaagtagga aatgcttagt gagtagacaa aaaatgatgt ggtttggaca gcgatgttct 90300
 gtatgcatt ttatattaag gaggacttgt agcagttatt atatttctgc tttgtggttg 90360
 gggagaggga gggaggagg gggagagaga gaaattgccc aacttgatg ataggaaagg 90420
 ttaagtgccg ggagtggcc aggttgtgac tcatgtcctt cggggctgcg tgatgcaaga 90480
 ccttttgccg ccagctcatt catgtctgct gtcaggaccg gtcattgggc tgggtgtgtgt 90540

```

caaacttatt tttatctctg ctttattgac aatgaaaaca gctaggtggt cagcctccct 90600
cagtataata aaatgctttc ttttaaaata cctcagtgcc aagatgaata tggtttgttt 90660
aaataatgac ttctgctcta ctgagaaaaa ttgatattgg gacacaggag acttgcctgg 90720
tttctgaggt aacttggtag attataatct ggttgctatg gctactcagc agcagtgaag 90780
attacatgaa ctaaacattht gaaggagggt attttcgtcg gatgcttaaa agcccgttac 90840
ctatcatctt tctccctgaa gaagtgggat gggggtcagg aattgaactc agtaagcagg 90900
gggggaaggt ataagtggac cttagaggct ggatgcctct gcgtcgttct ttgaagtttg 90960
gcctgggtgc agtgaccact gaggaactgt tacagacact ttttgtgcaa tatgataagc 91020
agataatgtg acgacagtcc ggacatgtcc caattcagaa atccgttttc ttgcctggga 91080
ctttccgtaa tactggtgaa ttgtattttc tgaaccggta ttcagggcac attgtctgac 91140
aattatgagc gtggtagaag agagtatatg aatttgggat tgtcagagaa aatctaggac 91200
atagagtctt ggcatccatt ggttcccccc tccccagct aattaattcc atgggcataat 91260
attacagttc tatccctaga gctttaaaca caaagcaaat ggtttttgct ttattacagt 91320
gatgctagaa ttggtctaag gacctttaaa aagacatgga taattgtctg tattgaagtg 91380
tgattttctt ccattgtagt ttttatattg tatatttatg taaaaataaa tgattttcat 91440
gttaaagaaa tgactttaaa agctcctttt caagaaaaca aatatttggc ccggcgcagt 91500
ggctcacgcc tgtaatccca gcactttggg aggccgagac ggacggatca cctgaggtca 91560
ggagttcgag accagcttca acatggagaa accccatctc tactaaaaat acaaaattag 91620
ccaggcgtgg tgggtcaggc ctgtaatccc agctactggg gaggtcaggg caggcgaatt 91680
gcttgaacct gggaggcgga ggttgcatg agctgagatc gcgccattgc actccatcct 91740
gggcaacaag agcgaaactc cgtctcaaga aaaaaaaaaa aaaaccaaatt attttaataca 91800
ttctagagat cttgaaggaa tttccttttg agtttttgaa acagtacagt gtgcttacat 91860
tggtgataat ttaaatactg aaaactcaaa gattatctac agttattata taggaaaaat 91920
aaattgcctt gaaataactg tcataattca agataatgag aagcaccaag ggtgaagctt 91980
agtctgagtt tccctgaatg atcctgtttt ttccaggtaa tgtattttct gatttaaaaa 92040
aatttagtat tccagcagta tcatctggat gaattattag aagaggcaaa atacatggat 92100
attaaagatt gagtatttaa agatgaaatg gttttgattt caaaagtttt acaaaacaaa 92160
ttatagtgtg tacagtaaat aaagttgact tttaaattgc atcttatgaa agcttaattt 92220
ctaagctgag ataattattht gcaatagttt tttttttaat gttttatgac tttcattcat 92280
tcagtgaag tagttattga gcacataact tattctatgc caggcatggg gctagatagc 92340
tggtggttat ccttatcatg cctagattaa agaaggaaag gcagacacta acataattgc 92400
ttagttaatt gattgcagtt gtaaattcta ggaagaagta gtagagcggg tatttttggt 92460
tgatttagaa cacatagtgg gggacttgac ctgtcctggg agtcaaaaca ctgttatcac 92520
aagctgagaa ggatgaatag acgttgggtg aggatggagg aaggtaggtg gtaagctaag 92580
atgaaggagt acaggaagag tatcacagac agaggaaaca gtatgcttga cagtttcaag 92640
ccagggagga acagggttg tttccgataac tgtaggatga atgtgacact gacatcctgt 92700
caatttctag aaattatatg gtgattttta aaatagtgtt agccttgtag atggtggttt 92760
ttaactatag tttttgtggt ggtggtggtt gtttttgaga tggagtcttg ctctgtcacc 92820
taggctggag tgcagtgggt tgatctaggc ttgccacaac ttccgcctcc tgggttcaag 92880

```



```

ccattttcctt ttctcagcct tccaagtagc tgggattata ggcacctgcc accacgcctg 92940
gttaattttt gtatttttag tagagaccag gtttcacca ggttggtcct gaactcctga 93000
cctcaagtga tccacctgcc tcagcctccc aaagtgcctg gattacaggc gtgagccacc 93060
gtgcccagcc taactatagt tttttaagtt gtattatgtc ttttaacttg tatttagata 93120
tcaattagtg atttttttcc tttgattatc ctttgattag aactattaat aaaactataa 93180
ggctgttgac agaacgtact ttgctattac cactcatggt ctagtcttgg aagttgtcta 93240
atattaaata tttatgttca tataagtaaa acattgactt taaacatttg ggtatttggc 93300
ggggcctatt tataatattt atttaatact gttcattatt gtcttaagat cctgtacaca 93360
gataattcct tttataaaaa tttttcttgt aaatatTTTT tgttgtcaca caatagaatc 93420
atataaccag atcagtaata gacacttggg aacagtatgc agcactgtta ggtcaaaacc 93480
tcattgctag atgcagcttt cttctgtaag tatggtttct ggtgtttttt cttctgtaat 93540
tgtagtttct aaatttgtga aagcgaaaag ggaattgtgc ttttcaaaga aaagttttct 93600
tcaaatggag tttttaaaag tagatagcat cataagcaac acaggagaat tcacttagct 93660
aaatttgaat gcatgtactc ctctacccc catgccccca attaagactt atactccaag 93720
ttttgtgttt ataaaagatt ttatgccaca tgcttctgt ctagtatata aatttaggta 93780
ataacactta acaaatccca gaggttccag tattaaactg aaattaatgt gttgttttgg 93840
caggttattc tcgttcaagt taatccaggt gagactttca caataagagc agaggatgga 93900
acacttcagt gcattcaagg taaggacatt tttggtaaat attctaataa aagatttttt 93960
tctttatttg aaggaagtaa tgtttttctg tgtgtgtctg catgtaattt tctagaagta 94020
aagtatatct tggatatcca ttttcttttt ttttctgtcg catggtctca aatatatatt 94080
atgatgttat ccaaaggaca tttttagtgg taaaatctgt attgggtatc tgttggttag 94140
ttattgctaa gtaacaaatt actccaaaat ttggtggctt ataacaacat ttattaactc 94200
acagggggct aatggtagga agttttctac agttagttgt taagtgggcc tctccatgga 94260
gaagtggagg gagcttatgt taccgcagct ggcttcagag ccaataacta gagggcaaga 94320
gggagctagt aggtccagcc cagactcaag agaagaaatt atgaaagggc gtgaatacca 94380
agaggcaggt cattgggggc catctcagag gctgccaac acaggctact ctttggcccc 94440
cgatgattca tgttccttcc aaatgcaaaa tgccccgtcc caagatctcc aaaagtctta 94500
tcccattata ggattagctc agagttcaga acctatcat ctaaagttcc aggtgtaggt 94560
aaggcttttg ggtgtagtta ttttattaca gctcctagca cacttctagt gtgtatacta 94620
atgcctcttc tgtatagttc acttggaat aaatgatgta ggtactttga tccatatgga 94680
gttctgtgta ggaagatcaa cctagatctg atgttagctg gtaaactg tagtgttaaa 94740
aggcactgtt tatgatagct ctttttgaca gtgactggga ttatggggca aatggtaaat 94800
ggcatgcaat tgagatcagt attaggttat taattgaact ggaatctaata ctgaggcttt 94860
actattaata cctgaacttg cttaccaata tacaacaaa ctgggggaaa tgcccttttag 94920
tttcggtttc ccataataag ctgtatagaa acagtttttt ttttcttgc gtaatagtag 94980
agcatgttgc tttgtacttt tttttgtat ctataagaac aaaaacttag aaaatatttc 95040
ttgagaaatg agtatatttt taaagattca aggctaata gttttaattg aagttaatat 95100
gaaattattt aatcactttt attaatgatt tctactctgc atttctctgt tgtgtcccag 95160
aaattgatct ttggaattct aaatcattta aaatcaaac ctagtcttag tcgatgcaca 95220

```

```

atatggggaa acttcaggtc aaggaagaga agaaatatatt ttaaatagta tggactatag 95280
agtcctttcac ctattttag tagtataata aacagatacc gtgaacaatt aaaacctcag 95340
aatcctacaa ccctgtatct taaaaaaaaa aaaaaaatca cactagaaaa actagatgaa 95400
agtcacctat atgggatgaa gctgaagttt ccagttcagt aagaaagcaa ttaagcctct 95460
ggttatggta acattggcac cccattaatt ggctagtaca taatgtccct ctacaactga 95520
gtgtgtgtaa tagaatctat aaaagcaaat cacttagtgg atgaacatgc attaaaatct 95580
ctttcattcc acctaaagttt acttttttgt gtctaaggag tgtgtgtatg tgtgtgtgtg 95640
tgtgtatata tgtgtttttt gtgtgtatat atgtatgtaa tttcactgag ttggccgctc 95700
ccccactttt ttcttttttt aatccatgtt ataactgggt cactttgcag gaaatgttgc 95760
aagtatatgt ctctcttcac aaagggagct ttgtatttat tcatgatgat acttgagat 95820
aagtgacact aacactccta acagtgattt caaaaatgcc ttgaccaa acagaattgt 95880
ggagccatta tctttggtc cctccaggt tctattctt tgttctctt tgaagtctca 95940
gatactatgg ttatcttcat tttggggagt ggtggtacct ggcccaatta actgaaatga 96000
cacaggatgg aatgaggact aggacctgga tccaggtgct ttactagggt ttcggaagca 96060
ctggggcaat aggatgaact gcagaaactg gaaggaaagt cagcccagca ggctgaacct 96120
caaattcaga ctcatgact gccactaatg tataaaaggc agtcactcag gcaaaaaata 96180
agaaaccctt tatatgagtc ccagtatgag ttcgtgaata cttcattcca gttgggtaga 96240
atatagcaac ataaaatgtg gcaataggca gtgtatttgt aaattccaac acaagttgct 96300
gtgtcatcct cacagtccca gtgattaaca tcatctctac cattgctaac atttattcat 96360
ctcaggctgt gctatgcatt ctttccttta gtgagtgtgt agttacacat aaggaagctg 96420
aggcctgtcg aaaagtcaca aagctagaaa gaggcagagt tgagttttct tccctgctat 96480
gtctgatgcc ctcatctct tgttctgtgc ctttatgtca gggaggactc cattctcttg 96540
acaacagcaa ggftaagttc ctgttcctgg agtaacagga ttctgagctg gatagcagga 96600
tgactactta gataccaga atgagacaga tggtttgtag aacaaaagtg gttggtggag 96660
actgagtcct gggaataagc taggggtag cactttgtta atgaagttag atctactggt 96720
tgagcagtga ctagcagaca gtgtgatgca gggagtattg gtttagaact cattaaatta 96780
tttctgcccc aaatcaggtt tgagttcaga tttggggtgg ctcagcttcc aggtggggct 96840
tccagctcca gctccagctg ttgttgattg gggccaggga gggctccagc tccaggacaa 96900
tgaggagagga cttgtaggta cagtgggagg cagttctttg tcatttaaaa acctattagg 96960
aaggaatctg aaaaatgtca cattgtaatg gaaatttctg aaagaaatat ttgtattttg 97020
ttagggattt aagagatcaa aactctactt atgttctttg aacctggcc aacaggcggg 97080
agtgtttttg ttttgtttgt tttttgtttt gagatggagt ctactctgt cgcccaggct 97140
ggagtgcagt ggcacaatct cggtcactg caaccaccgc ctcccgggtt caagcgactc 97200
tcctgcctaa gcctcctgag tagctgggac tacaggcaca cgccaccaca cctgtctaat 97260
ttttttgtat ttttagcagt gacaggattt cactgtgtta accaggatgg tctcgatctc 97320
ctgacctcag ccttccaaag tgctgggatt acaggcatga gccaccacat ccggcggtgt 97380
ttttctaaat tgagggaag gtgatgggtg gtggtggcct tcctggaaat tttgaagtca 97440
taccattga ttatgccgtg gttgaaactg tcagcctaata aactttgcta ttttaacacc 97500
agccttcaga ttagggactg ctttgtgggg atttcaggtg gggaatggag ttggttgctg 97560

```

```

ggccttcctg gaaactttga aatcacattg tatgaggta gtcctcttta cttgtaactg 97620
aattttattag cctgataaatt ttatctgtag gacattttgtg acaccactag aaagacctca 97680
gaagctcatt gtgatctcat taaaaggcag cttggaagtt gaaagcaaata taatacagaa 97740
gaatatgggc tgagtaggga agctcacacc tataatccca gcactttggg aggccaaggc 97800
agaagattgc ttgaggccag gagttaaaga ctagcctggg caacatagtg agacccatct 97860
ctaccaaaaga aagaaaaaat tagtcagggtg tgggtgggtgca tgcctgtagt cccagctgct 97920
cagaaggctg aggtgggagg atcacttgag cacaggagtt tgaggctgca gtgagctatg 97980
gttgaccacac tgcactctat cctgagaccc cgtctattaa aaaagaaaaa aaaatgtgtt 98040
tttatgggaa tgccttgggt gataaggaag aaaacacagg aagcatacaa tatgctgtga 98100
acgcagattc atttctaattg gaataatttct caataatttcc catgaaacat gaatcatagg 98160
tcttgaaggg gccaaaaaag gtcatagttt attctcactt ggggttagcc tatacctatg 98220
gcctcctaga caaaggattt attttctctt ggccagatca aagtgtataa agagctaatt 98280
gttaggaaaaa aagaatctta gcaatcagta tgaattttgc ctttgcttca gttcaggaat 98340
taatagaggg cacacttggg tctctcccat tattttcata tctgtgtctg ggctgaggtg 98400
ctggcaatgc agccttcctt cctgtctaca catgccatct ctttatctgc tccctgtaaa 98460
atcctccagc caaaacaaac atcatgttc ctttaagact ttaggcctct ttcttccaag 98520
agctctctca gaccactgcc tgacttttcc ctgaattctg gaggagcagg tagaggtagc 98580
actacacagt ctggttatat gcgtaaacct ttccttagct ctcgaattag atgtgaattc 98640
agttgtgaca ggaaacagtg tatcttcacc ctgctcccca gccacacagc ttgagaataa 98700
ttactgactg gattcctgag tggctctgggt attacattca agcatgatga tttttctttt 98760
aaattttact cttctgatgg cagtttaaag aggttttagtt acgtgcttat agcagtctct 98820
aaatctcaat agaagaactt tgaaatacta gattccattg ataattgaag ttaatgagtt 98880
tccttttagag aaatatgttt aaattctaaa gaacttttac aatgacccta cattattaat 98940
actgtaattt tttatttaag actattagat ataaattgtg aggctaaaga aaataggtga 99000
gtgtgatgggt gataaaaaat actgattaaa gtaaaattct taggaagcac cattatgtta 99060
gtaaacagta atatttaaag atacttaatt gctaattagtt tttgtccaaa ataatttagg 99120
aatcttttac catagcagtt aatctgctga cttgtgttaa gtgaatagag acctcaaaat 99180
gactaaatga caacagaatg cgtgcagagg ggaattctaa gagggcacta ctatgagatg 99240
gctgtagctt tgaagctatt cgaatgtgaa actttttccg ctcttgcttg ttctccataa 99300
gacttcttca gctctgtgtc taattctccc cctgcctcag tgagtgtggg aactgtatcg 99360
ttgatgaaca tcatgctctg cccagtggct ctgtgaatga caccattgag agctgttcac 99420
catttctgaa tttcctcatt tgtctcccat ccccccccc tccatgtatg agtcagcatc 99480
cagaatgtca cagggacctt aatgttactt gtttttctt atgtgatact tttgggacct 99540
taacgttgct ttttttctt tatatgatac tttaagtga tttatttagac ttgtttggca 99600
cactaaaaca ctgacctgtc attctttcta agaattttat gacaggtcct agggaatttg 99660
ggttgtctct tgctttgttt agtgtgaaat gacaagaatg gtgtcatagc ttggttttgc 99720
aaactgaggt agactaaaac ttcaaaaagca aagcatgcat atggtctctc cttttaatac 99780
atactttgca tataaatgag aaattcctgt ttacttagct taaaaccag gaagaggacc 99840
tgttgcaaat gaagcttgct ttcaaagatt gtagtgaatc tctgtcttgg ctgaaatttg 99900

```

```

caaccagttt tttgattaaa aatatttggg tgatttgaaa gtaaaattat tgtaacatga 99960
atgcattaaa ttctgaatct ttgccaactt ttattatatt ggatgaattg ttatttgact 100020
atttgtaaaa tgtctgtatt ataaatggaa atgtttcttc ctattacaag attaggattt 100080
taggagcttg ttttctacat aagaaactgc cttgaaaacc atttcttttt ttttttgttt 100140
tttgagacag ggtatcctgt ctcaaaaaca aagacctggc tctgagacag acttgctctg 100200
tcaccaggc tgaagtgtag tggcacgac agatcatagc tcgttgacgc cttgacctcc 100260
tgagctcaag tgatcttccc accttggcct cccaaattgc tgggattaca ggcattgagcc 100320
agtgtgcctg tccgaaaccc atttcttttag tatttggtgg atttgtgagg gattgctaac 100380
aagctgaaat gttattgtga acaacttaggc ctcaacttga aaatcttcta gaattgaaaa 100440
tagcaagtca tttgccaagg ctagccctag tgtcatggcc atctttcttt ctgattgac 100500
caaagctgta tatggtgaga gttaatcttc ccaggaggt ctaagccaag atagtctgaa 100560
tttctaggaa aatctgaatt actctaccaa ctctccagct taccttatga tacttaaag 100620
ttagcttcaa gaccaatcag tcttttacct gtgtgtgtct gtactacaaa tatatattta 100680
cgtgtgtgta tatatatattg cttcattaga cgatttttcc attttccatg attggattta 100740
catgaaattt ggagaaagat tgaagaaaaa ttactttcag ctttgtggag tactcttgat 100800
ctctgaaatg tttgggggct ctattttgca catgacagtt agcaattcct ctcaacatgg 100860
actgatgcac agctatttgt tacaagtaga cattccatac gctgacctga gaaacctttt 100920
tacagacagc agcttgctgc tgagtaactg gaagtttacc agcaggtggt ttccaccagg 100980
gccgaaaaat actgacgggc ccagagcaga aagtccaggt tatggaagga atgagagcaa 101040
aggctgtgat tgtacgtgca actgtcatct tgctgggatt gtgtaatgtc atgaggctgg 101100
gttacgtcaa taccaaacta tgttgctttc ctaggaggtt ttaagtcct ctcaaggag 101160
gtactcaggg tatatgctgc ttctgcctt tctccttctt cctgtctcag ttatcttgat 101220
ttttatgttt attcttatat ttacataaga acggaatgtt aaaccttag ataaaactgt 101280
cacccaatgt tgtgtcatca gacttaagat gaattggtgt tgagttctca gactacagct 101340
ctgtagtgtg aatccctggt catttcgtag ctaatgctta acctgttagc cccaatttcc 101400
tctcttaaaa tgggaacaat gatagtacct atctgatagg attgtgagga taatccattg 101460
taagtgtcat tattcttata atcattatct agttgtatac acagctttac tgatttttcc 101520
ccccctaaa tagatggcat gattgtgggc aatgacttca ttttctact tgtagaaatc 101580
agttgaaatt ctagtctccc tttcattgct tatttatgat agacttgctt tcatagggtt 101640
gctggtgatg gcaccagttc aaacatttta gatgaaggtt tataagaatg tgtatactgt 101700
tcagatatgg ggttatagct aaaacaatgg gtccagtggt ccatgaattt aaagtaaatt 101760
ttgtttaga tttttagttg ttggttttct tttgaataac agccgttcac tcttgacca 101820
cgcttgagca gctatattca gagaaggctg tatectctta ttttatccaa caaagcagtt 101880
tttctaattg gcctcctttt acattttcat tgaattccat acttctggct gggcatagt 101940
gctcacgcct gtaatccga cactttggga ggccaagtg gggcagatca cctgaggtca 102000
ggagttaag tccagcctgg ccaacatggt gaaacccat ctctatttcc ccctaaatac 102060
caaaatacaa aaattagctg ggcttggtgg ttggcacctg taatcccagc tactcaggag 102120
gcttgagaca ggaggatcac ttgaacctgg gagatggagg ttgcagttag ctgagatcgt 102180
gccattgcac tccagcctgg gagacagagt gagactgcgt ctcaaaaaaa aaaaacttgt 102240

```

```

ttccatactt gttaaaatTT ttatttagtg cattctgttt cttaggcagt accaagaagc 102300
agtcagggct atatatTTggg aagatcatta tagattttgg agtgagattg cctggctcaa 102360
aaatccccctg cacattagat gtatatTgta aaattagttc cttacttct ctacacctca 102420
gtttccttat ctgtagagct ggaatagtaa tttctctctg gaaggattgc tgtgattaaa 102480
tgagttattg tgtacagagc actaagaaca atttctgagt catagtaggg gcccaataaa 102540
taggagtgat tactaagctt tcgctcttta ttatgggtgg gcattgacct ccccttcatt 102600
ttttgttagc taatcatttt taaagcattt cagaaagcct atgcgaactg gagttattag 102660
gatttttttag atgtcttcac gtttaaattc taacacttca aaataacatg tttaaaagtt 102720
atgcaatcgc agtttaactc ctcaacctt ctgcccttta ggcttgttaa acaatgatta 102780
aaatgtcatc tctgaaggta ccactgctta gagttcttta aatgtcacag atctttgcat 102840
gtcagataat tcagaaaagc gagcagtgtc gcattacctc agtggttggc cacaggctat 102900
ttcacagctt gtagtcttct agttcctgct ttattcttct tgtatttttt actcttgttc 102960
ttgcacttcc aacctgaaat agaaaagttc atgttacaag tgtctttaag gaagactgga 103020
ttaagttctt caagggaag ggtcaaagct tagtcatctt tgtatcccag agcctatcct 103080
gcatgcagga ggcatcaga ctgaaggaaa gtcatttctt gatacttgct ttagtctgtc 103140
tgggctgcta taacaaaaat accagagacc ggggtggctta ttaacaacgg aaatctatTT 103200
cctacagtTc tggaggctgg gaaatccaag atcaagatac tagcttcttt ggtgtttgag 103260
gaaggcctgc tttctggttc atagatggca gtttctctct gtgtcctcac gtggctgaaa 103320
ggcctagggg tcttcttggg cctcctttat aaggacacta atccctcatg aatggggatt 103380
agtgtccctc atgatccagt cacccttct agtaccacc cttctaatac catcaccttt 103440
ggggttagaa tttcaatgta tgaatttgcg ctggggtagg ggacacaaac attcagacag 103500
tgatagtact gctgaagata aaatgatgga aaaattctct taggtaattt agagaagtta 103560
tttatttttg ttgttctgaa aaggtagtta aatttagtta ttttactct tagttcctca 103620
atttaagata atgaatacag gcatgagtgt gtttccaaa acagtaattc tgaaaaagtc 103680
caatatatgg attagcttct cttacctgta aaaatgcatg agggaatcat tatattcatg 103740
cttttaataa ctttattttg ggggagaata ggatgggaat accttagaaa atgttaggct 103800
atttaatcct taaagataca tcaacttttt cccaaacttt gtattttatt ttgtgttatt 103860
aacaaatatt ttaggttact cgtaattttt attaataatt tatgttttct tgctgttgga 103920
aattatagcg tttatgtata gtaataaatt ctcggtaaac tctgtgtcag acccaggaac 103980
aaattatgct ttagtaaatg agggttgggg cgggtggctca tgcctataat ccagcactt 104040
tgggaggccg aggcgggcgg atcatgaggt caagagattg agaccatcct ggccaacatg 104100
gtgaaacctt gtctcaacta aaaatacaaa aattagctgg gcgtggtggc acacacctgt 104160
agtcccagct actctggagg ctgaggagg agaatcgctt gaacctggga ggtgaaggtt 104220
gcagtgagcc gagatcgtgc cactgcactc cagtctggtg acagagtgag cctccatctc 104280
aaaataaata aataaataaa taaataaata aataaataaa taaatagtaa atgaggctca 104340
ttcgtgcttg tcagtgtttg cattgatgta aagaaatact tgagactgtg tagcttataa 104400
ggaaaagagg tttaatTggg tcatggttct gcaggatata taggaagctt ggtgctggga 104460
tctgcttctc gtgaggcct caaagaactt acaattatga cagaagacga aggggagcca 104520
gcgtgtcaca tggcgagagg aggagtaaga gagagaaggg agaggtccca gactcttaaa 104580

```

```

caaccagatc tcctgtgcac tgaatgagaa ctcactcatc accatgggga tgggtgctagg 104640
ccattcctga gggacccatc ctcaaatcc agtcacctcc cagcaggccc cacctccaac 104700
gttgggagtc acatctcagt gtgagatttg gaggggacag agatccaaat catatcattt 104760
actgagttaa atgaagggtg cataatggtt tttctctacc agcgggtgtga ttgaagaggg 104820
caggcaggcg tcgagcctga aggagtgcac tcgtgggtggg atgtggaagg agaagcagat 104880
attacagaca tttaggagat agtcatgact tgtgaccagt gagaacacac tggatgaatg 104940
tttccctaag gtagatgaac tacagtgtct tagaaaaata tttgtcttgt aacataattg 105000
agagcactaa acatttttga ttctctgtct ctttaattgga cacacattaa gagtaacaaa 105060
tatgggttta aaaggcaaac tttttttttt ttttaagtggg tatttttttc cttttcctca 105120
acttgggtat ttctctctg aagagggttt tcagtgtctt ggaaggtaat ttgcacacta 105180
tttgtgagc aagactgctg agttaatggg gaatatgctt tactacttct tttttggatc 105240
caatctaaat acggagaaaa ctggcctcag aattgcccac agaatggggg tttcctttat 105300
gattcctgct tttgagttct ttgaattagc ttcacatttc ttgtgtggtt ggatagaccc 105360
tcctccccct accacttttt tttttttcta tttgaagaga aaagattatt tccccctaa 105420
gtattcaagt ctttttgtgc ctgaattaag gtcgaagcat tccataattt aaatataata 105480
ccttttttga tgctttatat attgcattgt ggagccagtt ttaaacacct gttttgttat 105540
ctttctagct ataggagtgt ccacatcttc actttattta aaaagctccc gggtatgtat 105600
tagcagatta ttatttctgt tccaaattga taagaagagg agggaggtgt agcatcaagg 105660
gagaagtctt tgggagtaaa aaaaagagtg gaaacttaaa tcaaaatata agtccttttc 105720
ttgctctgtc ttctagtga aatgttattc tgtgttagag aaatgaccag atgaattgtg 105780
tttctgttt cgttttgcag ttctcattaa agtgggtata cgcatacact tatctcatgt 105840
aaatgtcaaa ctgtttgttc ttgaagtgtc gagtcttcaa cagttctcct tggttggatt 105900
ttgaacatca tttcagaatg tcttatgcta gatccagcaa tgtcagtttt tgcctgtgc 105960
actgtggtac cttgtgaata aagcaagtat aaatgggtcca gatttataat ggtttaagat 106020
ttttcaactt tacgattgtt tcattgggac gtaactcgtt cacaggtaa agagcatctg 106080
tacttaggca atgctagaac tgagcttggt ttctgttagag gaagagtaat ctttgcagat 106140
agtataaatt gtctttgagt gtaaacttga aataggtttc tttctttttt tttttttttt 106200
tttgagatgg agtttcactc ttgttgccca ggctggagtg caatgggtgtg atctcggctc 106260
actgcaacct ccgccaccg ggtttaagcg attctcctgc ctcagcctcc tgagtagctg 106320
ggattacagg catgcgccac cacgccccgt tagttttgta ctttttagcag agaggaggtt 106380
tctccatgtt ggtcaggctg atcttgagct cccatcctca ggtgatttgc ccgctcggc 106440
ctcccagagt gctgggatta caggcgtgag ccaccgtgcc tggcggaat agttttttta 106500
aaacattaat aaaaatatata aaaaaaagca tggcactatc atcccatgag ttagaaatca 106560
agatctagga ttaaattggt taatttatc ttagttaata gtcacgacag ttcttattct 106620
gtgagtcaag cgctcacctg ttgagtgaac tagttcttga atcatatgcc caaggaaaag 106680
gacatgtcta acatctcaga attttaaaac tgttgttatt aacagtggct tatatccttt 106740
tgcacatcag aattacctg gaacttaaaa aaaaagtta aaagttaga ttaggctag 106800
ttgtagggaa gtgtcacatt gtctgagccc aggggaattg tcagattgta ggggaattgt 106860
cagattgtaa gggttgggga ctgggcatga gtggttttga aaagctccc ggccatttga 106920

```

atatgtagtg aggttgagaa gctctggta acgtaaccct caggacagct caagaaattc 106980
ttgcaactgtg ctttcccacg tacatttcag tgtacaggct gtgtacctgt ggctgtttat 107040
caggttcacg ttcttttagca agtttggcag ttttgtaaag tgtctaaaga tcttttatct 107100
tgtattctta tacatattaa gtaaaatcta tgtggtagtt ggctttactg aacctattaa 107160
aattgctttt tagctttggg tataagcttc taagtaataa acaagaacca tcagacagaa 107220
atatgagtta ctgctttcgg cagagtacag atttacttta tacttactta gatgtaaaca 107280
caatagttca cgtatgttta acgaaattca aagttcacct atgtttaatg aaattcaaag 107340
ttgattggaa caggtatgat tatgcagagt ggacagactt taaaaagtga gatgagaagg 107400
ccaggcgtgg tgcctcacgc ctgtaatcag caccgtggga ggccaaggca ggggaatcat 107460
ttgaggtcag gagtttgaga ccagccaggc caacatagca aaacctgtc tctactgaaa 107520
atacaaaaaat tagccaggtg tgggtggtgca tgctgtaat ccagctact cgggaggctt 107580
gtggcaggag aattgcctaa acccaggaga tggaggttgc agtgagctga gattgcaaca 107640
ttgtactcga gcctggcgac agagtgagac cctgtctcca aacaaaaaaa aaaaaaagt 107700
gaggtgagaa aataaccatc ttacaacttg ccacttttca gaagctgata agctgctgtg 107760
agccctgttt tcgcatgcct ttatgaaatg attggactgg gacttttgct tccctctttg 107820
ttcccttcct aatctagctc gaatggtgta ggtccctagg aatcattttg ttgcttgact 107880
tggttggttg gtccctatag tatatgaatt cagtatatga catctatgtc agaccctaaa 107940
gattatcaac aggtagtctc ggttctcaaa atgtagcata aaccagaatc acctggaggg 108000
cctgttaaaa cacagttgct ggttctaccc ccagggtttc tgattcaggt ctgggggtggg 108060
tggggccaga aaatttgtat ttctgagatg ttcagggtgt tactgatgtt cttggttcag 108120
gagttctgag actcatggag gtggagatcg tcgggggttg tgacatttgt aagagaaggg 108180
tatttacaga agttgtaccc ttaaattaaa aagaaggctc tcagaattaa gtctgggtcac 108240
ccaatggaca aaagggaaaa aaattccatc tagatgcaga aaaataagaa aaattgactt 108300
aaaagattat tatttataag ctcaaagata gaattttttt ctttttgaaa aatttttcct 108360
cccttttcta cagttttaat gaattgaggt ttgaaccggt gactctaatt ttcaaaggat 108420
ttgtttgtag tctttcagtt tccatctcct aattcagttg ctaattttat taagttccta 108480
attttattag gaacttgttt ttcttactg tgctcagtt tccccataat aagaataaat 108540
atgattgcca gagatatcgt taggttattt taaagtctaa tgaataatat tatgtagtat 108600
ttggagatca tcaagttagg aaacttataa aaaatatgaa aaatattcta aacatctaaa 108660
taagggatgt acttattcaa gcaataagta catccctttt tccagtcata ctgggccacg 108720
gtaaaagaag cagccaatgt ggagggtaaa aaaaatagtg ggccaatatg gaagttggct 108780
tcattttgta aagtactata caaaaatggg aaaattttta agcatgaaac tggtagagaa 108840
ggaagtgact cagaattcaa aatagatagg actccacacc agtaatgatc tggaactgag 108900
gaacattgcc tacagaagag agaagccatg agagacagtt gaggtgagtg aattggctcc 108960
atagtaacat ggaaaaatgga attacacatt tctttttttt ctcacgtgga cagagactat 109020
tgtagcaatt tagaacttcg ggccctgttt aaaaaaatct atttcaagcg tcaaatattt 109080
gattgccaga ctgagtatta ttagtaatta cagttacagc actgaggagt tttctcatag 109140
tgtctgagtt ctgctcctgt tcagtgggtg agttcattga tcatttttct actcctcatt 109200
gcacctgtca tgctggtatc agcaattaac attcctcaga agcgaataga atgccaggct 109260

```

ccatctcaga tgtaactcaa gaacaacagg tgcattctac ctattcttgg ctatagacag 109320
agtagttaga aggcaagtaa ttaaccatag agcagacttt gaagaaaatg agattcttta 109380
gaatttgaga caaagtgtg aaaagtagct ctggataatg tatttaggag acataggaaa 109440
tggctcaaca ggaagggtga aatagcctta ccagtctggc ctctttaaat ttgtttcaag 109500
cctgtttccc ttcactgata caaatcttac taactctgca ccttccacag accctttgtt 109560
atgtgcagct gtttttgttt gtttttatga aattcacttg aaaagtcatt ggacttgaat 109620
ttatacagta aaaaatcaat taactagatt cttaaatttt ctcttccact ttaaataag 109680
acacctaacg gtttgaaacc ttctggctct gagaagagga agagggtccc cagatacagg 109740
tttcaattcc ttaccattta gtctggttcc attgatcagg ggttcagttt tctcacctta 109800
aaataagagg attagaacag ataatttcta aaattatttt taccaccctt tttctctttt 109860
ctttctttta ttcctgtggc gttctctgca gtttatatgt ccctaatttt tatgaaaata 109920
cttaaagctt tacttaataa ggttcaagtg tgggcagatt tcaagagctt aattatctag 109980
gattttctac ttgaaagtga gattttaaat tatcattgag accttacttt aggtcctaca 110040
taaatttctc taaaatttta taagcatatg ttactcttga ctagtaacaa caggaaagaa 110100
aattaatcca gtgtgatttc tcttgtttta ataattgcta ctttaaaaaa gcttgtgtat 110160
accttttgta tgttgggtgt tttttttttt tttttttttt tttttttttg agacagagtc 110220
ttgctctgtc acccaggctg gagtacagtg gcatgatctc agctcactgc aacctccgct 110280
tcccaggttc aagcgattct cgagcctcag cctctcgagt agctgggact tcaggtgccc 110340
gtcaccgtgc ccagctaatt tttgtatttt tagtagagac agggtttcac catattggcc 110400
aggctggtct cgaactcctg acctgtgat ccaccacct tggcctccaa aagtgtctggg 110460
attacagggtg tgagccacca cgcccagcca tgcgggtgc tttctctcac tggttgttaa 110520
acttggtctg atgtttgaat agctagagat ttttaaaaaa tactgatgct tgggcctcac 110580
cttcagagat ttagatacaa ttattgggtc ccagaatatt tttaaagata gtattgtcat 110640
aagtatttag ttacgttgc acttcaaaaa aaattgtaga tttactttt atgtctaata 110700
tttaaggttt tgaattattt gtgaatgaaa aaactctaaa acagagaagt ggtacctttt 110760
cattttaggt gtactgcctc agctaaagga tgtgtgtgtg tcttgactcc ccatcccca 110820
tgcgtacacc tcttatctgc tgagctagat gggatggcct ttctgcttgt ctctcatcta 110880
tggggcatta cacatagttg tccttttcca gttggttttt taggattatt tgggtgcatt 110940
ttgtcaaadc tatgccattg gtttttaaat gcatcattct ttttttttaa atgtctctac 111000
aaaagagata acaccaccga ttaagttgac ttcttttttc aggagatgtg aaaatgtgaa 111060
aaaggtaactt ggaatcgggtg aaatatgctt ataatttttt atttaaaaaa agtttgtggg 111120
tacatagtaa gtgtatatat ttatggggtg cctgagatgt tttgatacag gcatgcaatg 111180
tgaaaataagc acatcatcga gaatggggtg tccatccgct caagtgttta tccttcaagt 111240
ttcaaataat ccataaaaata cactactctt tatttttctc atctaggtat tttttaaaaa 111300
ataacaaatc tacatagggt ttttttctaa gtttgtgttt gcataatcat tttgtgtgta 111360
tgaaaaaatt gagatagctt tctattcaat ctcttaggtt gtagaaatat gactaatttg 111420
tttaaacatc attgcttcta aatatgcctt ggaggactta catacaagtc ataatcttgt 111480
gatattcttt gttagtttgt ctcatatgc ggaaagcctt atttattttt tgtgtgtgca 111540
tatgtatgca tatttgtgtg tactcataca gacacacaca ctctgtatgt gtgagtgtat 111600

```


atttgccagt gctaccactt ccgtgtgttc tgctttgtct aaccttttgg taaagtctac 111660
actttgggtt ttaaataaatt ttaaggtttc cattgttcac gtgtttgctg ttgtagcatt 111720
atcctattaa aaactacata acccagttca gcaatctaaa tgtgcttcta actttatatg 111780
gaaactattt agctttcttt acttaccgtc tccccgactc cactccccac tcccccaacc 111840
tctttttttt tcctacagtg ttaaccaaga gagatatatt acctttggat ctagcccatc 111900
tacctctaga tacttcactt gcataataac taatttaaatt ttattccaga tgtacaagaa 111960
gtatttgaga tttggtagtt ttaatttttg aaatgctttt aaaatgttat cctagattag 112020
taggtgattt ttcttccatg aaaatgtata tttattttaa acctgcggta gctaattaaa 112080
cttgaaatac cctaagtcct catgtaatgt tgtggatagg ttcttggaac ctgtaagtga 112140
aacatataac aggtccttga gttgcgttgt ttcttccgat gtggatttgt tacagcattg 112200
atgaggggaa aaacggttat gcgttatctt actcaaagtt gcagcttcca ggaacctgtg 112260
gatgacgtta tgtgagggtt tactgtattt ctctggtttt cagtaagtta aaaggtagca 112320
gaatctaata ttttcattct ccccatcagt agaggagctg gtgatatacca cttgtggata 112380
ctcagtcctt gtctgatcac caggtttgat gaattggccg ctcacttttag agggctctgtc 112440
aggcttcttc atgttcacaa atgactggaa ataaaaagga atacctttta catcaccaac 112500
tctctaagta cctatataac atttcggttt gttttggctg ccaattcctc ttcacaaaaa 112560
tcgctgggtt tgcagccata ggtggcctcc tggctctgtg tggttttctc cttttactgg 112620
ctcactcttc atgcccatac tgctgtagac ctctcttaga agcctcaccc cttcactccc 112680
cactcctttt gcatttgggt ttctgtgtgt atgtatgggg tacttaacgc cttctaagta 112740
gtagcgcagt gcctggcaaa attgtcagaa tcaggatcag aatcagactg cttttgctgt 112800
gtttccacgg gtgtgttgca ttgcttctct tccgttctcc atccattgcc cattctccgt 112860
acccttcatg tcctcaacta ctccctgtct tcacctctg tttctgttt tttctctgt 112920
ttctgccact cacattctcc atgggaaggg cttttttttt tttttttctt caaacctggt 112980
atttttggag agaaggtttt gacattgggg ctgtctttta agagcccttc ccctgatagc 113040
agaggggaac gtgtcaact tacaagttt ctgaaaaaaa tcacacttct tcttttcacg 113100
ggacccctgt ttgaaatttg caacaaatta aatgcttagg aatccaggtg cctaggagcc 113160
ctgctatttc agctctttcc ccttaatcat gttggtttac atgaggattg attttgact 113220
cactgggcca gctacgtgaa atgtggtatt gtcattgtct ctttgcacag aacaattcat 113280
ttgctgcttg tcgtgaatcc atcctgtgag gtattatgat gacatctggc atggcttctt 113340
tgtttactgt gtttaccgta tgtgtttaga aggaaaaagg cctgtagtga ccacttttct 113400
gtgtcggccc ctgggtcagg ttttccatcc tgactcatgg gtgtcgggac cgctgagatt 113460
ggttgatggg gtgtgcagaa tttctctgt cgggcttggg agccagaaag ccacgatgaa 113520
gtttgatatt gcttgtggca gccttttcca aatgtgaatt tggatacagt acagtaagcc 113580
ctctaagaaa aggagaagaa gagaaaataa taactctaga gctgggaata tctggggaac 113640
attgaaaaac ggggaaagtc tcaaagatag tattctgtgt ctccctgag ctggtgttgc 113700
tgtagtgctc agaggccagc ctttttttcc aagccagtg ctccctgcac ttgggagaaa 113760
ccacagaggc ggctctgtc ctgcatgtgc tgcacgtgc cttgctccag actgtcttga 113820
atgtgacctg gcagccagt ctgtttctct ctgacgtggc ctcccacaac tgagcagaa 113880
agagccacct cagtgtactg aggaaggagc aggctggggg catgaatcac cagcgggata 113940

cggaacaaat tcagagggga aagcgcctaa ctattcaggt ttcctggtag atatacttaa 114000
aagacacctt tcttatagga aggaaggagg aggaagaaaa acaggagtga agaatgcctc 114060
aagagtcaaa cagtgatttg tttggcccta ggaaggattt cttatcagca ggagttacct 114120
tctggggtaa gccccagtct gtctcaaaac tctgagagga tgctttgagg aggccagact 114180
ggactgcagc cttcacagcc aactgttgc acaggttggt ggcatgtga gctcttagcc 114240
ctatcctgca gacaggtagt aaagaaacaa aaacctaaac caaaagacta gagtttgtgt 114300
cttggtggaa aaagtccct caacttggtg ggaactggag aaaaggactc tgagaaactg 114360
ctcaggagca aatcctgtgg cctagttttc cttcagtgct tgctcagcttc ccgcttgatg 114420
ctcgataagc gcttgtttca gccactactg aatatttttt gagtttgctt atttgaaggc 114480
atccaggaca gctccttggt actgtcttct aataggcccc ccaaaagtca tagtatcaca 114540
gaatttttaga gtgagatggg actttaattg taatctgac gagaccgtta atggtttctt 114600
tttttttgag acagagtctt gctctgtcac caggctggag tgcaatgttg caatcttggt 114660
gcaactgaac ctccacctc tgggttcaag ccattctct gcctcagcct ccgagtagc 114720
tggaactaca ggtgcgtgcc accatgcccc gctaattttt gtatttttag tagagacggg 114780
gtttcaccat gttggccagg atggtcctga cctcgtgac cgccgtctc cgctcccaa 114840
agtgtggga ttacagtcac gagccaccgt gccaggcta tggtttcttc taagaagtga 114900
tcgtagaact ttgtcttcag ttactccac ctgaaagccc actgtacaaa acgtgcaggt 114960
ggagctgact gagggcagag aggccggagc ccagctgctc atctttcttt tagtagtggc 115020
cctggaaact cttccctga ccattccaca ctccgcata cttaattgag aaaccactga 115080
tgaaatctac aaccttaatt ttataggtga gggaatttta ctttggttag ggtcacggtg 115140
ttaggtcatt atgataactt tcaaggtgcc tgggaataaa agttttataa ctttaatctg 115200
tctcctgctt ttgagcctc gtgatctctc caggagctgc tgtaatggct tcccacctg 115260
cgtgggaaca agtgggggtgc tgggtgggaca agtcgggggc tgggtgatgta ctctatgtgt 115320
ttgtaggtca gagctggaaa ccacagagaa cagcccaggt ggtttcatta gtctaggtgt 115380
gaggtcactg gggggcggca gtaggattgg agatggaggg aagctttgaa aggaagagcc 115440
cttagcattt taaagtatgg ttaagttttt aagttacaga aactggatat ggaaaattac 115500
caagagaact tagtcaaaga tgatcctcaa ataccagcc aaagtcatag ggagaatgtg 115560
gagactgtct gacttagata gtggaaaatc tttctcagtt ttctttgttt aagcttcagt 115620
aagtccctct cgtggaggat tcttcttttg agataggaaa gcagtttgat tccctgattc 115680
tctttacagc tgtggcatcc caatctgatt gttggatgag ttttggtata tggtgtaacc 115740
cttagttcct ggtgtgtcag ttgtctacac aattcacttg catttgtttt ctggattgtt 115800
cagcctagat tatggaacag aaccaaggca gattcaggtc tgtcactactg acctcattcc 115860
tggttcagca ctgactttcc tgcatagcct caagtctagt aggtaggtgg acttgtgatt 115920
acaacagat tttggaaatc atttacattg gccaggtttt ccagtgtttt cccctttcct 115980
ggaagccatt ttctcctatt gctcgctct aactcagtca acagaagcct ctgcccaggg 116040
caaacaattt tgtaagaaaa gagagcaaaa taggagtga tggagaggat gggatattaa 116100
atatgtaata ggcctatttc cattttcagt aaagtcactt gatttccttt aaagaggctc 116160
tgattttctt gaaccatgcc ttggtggaat tagaaagtta cccacatcat ttatggtatt 116220
ttgttggttac tgttgtaggc tggatttgta cttggtccgg gactagaagg ggagaaacag 116280

ccttatctgt taatccgttg cagtggcaga agagctgtat atgtaactat atgctttttt 116340
cctcaactta tactggaaaa agaaaaaaaa ttgccagag actctttttc taaatggttt 116400
tggtaaatgt attcttcaaa tacaactgcg agtaggaggc catgtcagtg gggggtgatc 116460
attcttttgt gtgatggtaa tgagataatt tctgcattac agattttcag gagactcttt 116520
gtttaaatga aacttcagag ccctcacaaa gcctcacaag tctctttgcc ttattaaaaa 116580
aagtttttat taatctcatg tgttttgcca tcatcaattg cataaacaaa taaaattggt 116640
ttgagcaata gaactaaggc tgtcatttgt ttggcaccct gtcctctctc ctttttctca 116700
aatacaattt gacaaaaatct ggctccgagt tgctgttggt cccaccatta gccatcggt 116760
ccaagtggcc attccctctg gtcttggtat gaggcaagag gaagtgtgcg caagacatag 116820
ccaggcaggt tgctgcctga aggctggcag ccgctttcac atgggctggc agggatctgc 116880
agccagcaag tgactggcac aggaatttcc gttgcgttgc aagaaggaa caggtaggcc 116940
tgagggtgtc aagttgctag ccaagatctt caacgtttct ttgtatgtat cttttgctaa 117000
ttgaacctgg aaaacctaac catgaaagg atctacagag aaaagtggct agtgcagagt 117060
tttgaagttt tttttttttt tttttcccca ctgtctgctc tctaaagcaa ccagtattta 117120
tttggttaaa aagcagctaa ttaatctgtt tgatcttgat gtggaaatga accgtatcga 117180
attccaggctc aaatcactta tccttgtaga atgttttttt aaccttttga ggtgtgtttc 117240
atcagattac ggactatcag aagtttactt gtcctcaata ttccggtctg catggtgaca 117300
tggtatattgt tctaataaca gtgcttttaa gtataaacct aatattgtct acaaaaagaa 117360
aagtcacatt tatcaatgga ctgtgaaaag ttgtaagggg attgtgtaac ttaattatac 117420
aagcagtgtc atatatgata ctattcttga aaaatacctt gccatctggt cccattttatc 117480
tgagatgaga tctgttgtaa tttttctttt tctcttctta agtttcgcta agctgccagc 117540
aaatattatt ttccttattt taaacatgaa gaaacaaagg tccagatagg ccaactaact 117600
tatccaaagt agtggtagag ccagaacatg aaccaagat ggtaccaaaag ctctgtgtat 117660
tttttttttc aaacttttat ttgaaataa tcatgaattt ttaaggagtg gcaaaaaatg 117720
tgcagggaag ttccatgtat ctttcactta gttttgcctc atggtaacat cttgcataac 117780
tataattttta tataaaaatc aggaatagac atgagtacag tccacggaac tcattcagat 117840
ttgtaataat cactaccata attaaaatat ggagtgggtc tagcacaaa aggctctctt 117900
gtgctagccc attatagcca ctcccccttc ttctgtctat ccctaactcc tagtaaccac 117960
ccatctgttc tccatctcta aattatttca atagtgtcat gtaaataaaa tctcacagga 118020
tataagtttt tgagattggc tgttttctca gcctaatttc tttgagatcc atttgttttg 118080
tgtatcaata gcttatttct tatattgctg agcaggattt catcatatac atgaatcagt 118140
gtaacctgtt gaaggacatt tgatagttct ggctttgctt gaacatgact tttagttttt 118200
tgggataaat gccttctgag gtctgaatgt ttgtgttccc ccagaatgca taggttaaaa 118260
cttaacctcc aacgtgatgg tattaagagg tggggccttt gggggctgat tttatcatga 118320
ggactcagcc ctattaatg ggattagtgc catgattaaa gagaccagag ggaccttttt 118380
cactccttct accctgtgtg gacacatgga ggggtgccat ctataggaa cgggctttca 118440
ccaggcattg aatctgctgg tgccttgatc ttggatttcc cagtctccag aacctagagc 118500
aatacatttc tatcatctct aaattacctt gtctatggta gtcttggtac agcagcctga 118560
atggactaag acagtacca agagtacact gctatagcct attattataa ttgaatgttt 118620

cgttttataa gaaactgaca aaattttcca gagtggttgt actattttat gtttctatca 118680
gccatgtaca agtgatcccc attctcttca tccttgtcag catttggctc gatgttttta 118740
atggtcactg tggccttgat ttacatttct tcaatggcta gtaatcttga gcatctttca 118800
atgtgcttat ttgccttccg tatctcctct ttgatgaaat gtccttgttt ttcacccatt 118860
ttctaataagg attgtttgaa tttttttttt aactgctgag ttttgagagt tcattatata 118920
ttctagacac aaggcctttt ttggatatgt aatttgcaaa tactttcttg tctttccctc 118980
ctttaacagg ttcttctgca gggaaaaagt ttttcatttt gatgacatcc aatttgacaa 119040
tttttcctct tatggttttg gtgtgaagtc taaagacctt tgtctactcc cagactccaa 119100
agattttttt cctttttgtt ttccctacaa gttttatagt ttacatgga agtctatgat 119160
taattgtgag taaatttttg tataatgtgt gaggttttag ttgaaaggct cttcttctct 119220
ttctcctcct ccttccctcc cctcttctc tcctcctcc cttatcttcc tttccacct 119280
cctctatcaa tgtccagttg ctctagcaat attttagaaa atactgtttt cctcccttgc 119340
atcacttttc acctctgtta aaaatcatct ggggccgggc atggtggctc acgcctgtaa 119400
tcccagcatt tgggagacca aggtgggcag atcacaaggt caggagtctg agaccagctt 119460
gaacaacatg gtgaaacccc ctctctacta aaaatataaa aattagctgg gcgtgggtggc 119520
acatgcctgt aatcccagct actcaggagg ctgaggcagg agaatccctt gaacctggga 119580
ggcggagggt gcagtgagcc aggatcgcac cattgcactc cagcctgggc aacaagatcg 119640
aaaccctgtc tcaaaaaaga aaattatttg ggtatatttg tgtgtgtctg tttccaggtc 119700
ctctgttcct ggcttggttg aactgtgtga tcactgtatc cctcctcca caccacattg 119760
tcttgattac tgtagctaca tagtaagtct taacattgca tcctattcac tctaaagtga 119820
attttatctg agatatntag gtaaataagg acccaagaga gagatgccag ctctccgtaa 119880
actagtgcct ataaccaaga gttatttagg agctttgggt catctccaac ttattctgag 119940
aaaatcagta ggaaaccac aaagtaaata ttcagaaaag tgaatatgag ttaagtaatt 120000
tggtttgtaa gtctaaagtt ctgtacagct gtctctgaag cctggattga taatgaagtc 120060
tagatctttg ggtttggttg ggttgtcag taatagctat tgatgatcaa aaaagccata 120120
tgagcaaaag gttttgagaa aaaagttagg ttctggattc attttaaaaa gttagccact 120180
cgtttggtgta ttttaagaaa tctcatctgc tgtactgaag cttatatat gttcctttat 120240
cttaagataa catagatagt acaccatttt agacttagag agtggttaga ggtcaattca 120300
tttaaccatc acattttaca ggtaggaaaa tcaggacctt ttataaatg ggctggcaca 120360
tctgcagatt gtccctgggtc actgggaagg tgggggaggc cggcaggggc tgaccagaat 120420
cagcctcacc agtggatact ctgtcagcct tctcgctgc ctgtaaacct gttttcactc 120480
tttttcatct ggcatggtcc tgaagccaag ggcagcagtg ggcattacta ttacacagta 120540
ctacacacta tacaaaaacta tgctccttc cagctcctg gaataggaaac ctctgttcat 120600
agacctttgc ctggaattag actgaaatag gctgtgtctc ctgggccttg cctgttgtgg 120660
attttggtt cccacttaca ggggcggagc tgctcttctg gcctcccagg gactgacttt 120720
gcatttccct tggtccctc tctgtggtt gtctctcat tttcatcacc agcctgtac 120780
taggactggc ccctgctgtg gttatgttaa catcttctag ggtttacacc ccaaccctaa 120840
gaagtcatgt gaaatcttac agaagagctg ctaacaatca agggcatgaa tactgctttc 120900
cgaatttcac taatatggc cagctccttt tagagttgcc ctggaacaga gaaatttaca 120960

gccaaactgta aatcagaaat gtcagtttgg gctagggggc catgatccaa tagtggagca 121020
 agattaatag aataatctat acgtatttta aagtatactc atctataaag aatagaatta 121080
 aactttttatt gttataatat tggcctttgg ttatttttat caggttttta aaataaagat 121140
 gctgcataat agcaaattat tactaaacat ttatattggc cacaactgtc ataaatccag 121200
 agtaatggaa ggaattccta tttttgcctt tggattttat tttatttttt tgtcccgaat 121260
 ttgccgttga aagaattttt gtgaactttc caatgtgcat agtatatatc aagatacaat 121320
 aaattcaaaa gaaataaaaag agaaacagca taagattacc aaaaaaggag ggaaccagga 121380
 gtaattttga attttacttt tagaaagttt gttttttaat cttattttttg tcagtgacta 121440
 ttcttgggtat gttattttctg taattttctta gttgtgttca ttattaactg ttatatagaa 121500
 ctgtcattag aagcaggatt gaacccatt ggaagtgtt taatttcaca tctgaatttg 121560
 agcaggctgt tgaatattgg tgggatggaa tgtgaaccga ctgatcgctt ttccaatcct 121620
 gttattttcc agtgtggtt ggaaaaaat ctctacatat gaagtcaaga aagcacaatg 121680
 aagccttctg gttaatgaat ttagtgagtt tcagattttc ctctcatgga gagtcttgga 121740
 aaatcacttc agaaaagagt gctgtgggtc acttgtagaa gaaactgctt tgcattgcata 121800
 tatgatattag agcattctaa aggctaacat ggattctggc ccagcctctg atgaatagaa 121860
 tcaaaaccta ttgattacca gaccaagaat tggaaacaaa gccatttgat acagctttta 121920
 ggtttatgac tagccagtca gatctctctc agctgctgaa tgtagaagtt cactggacac 121980
 atgcgtgtat ttaccgaagc ctgacaatgt ctgacactgt tgtgccttga ctgtggtagt 122040
 gatcacctgt aatgcaattt ttcataacaa ttttgttgag atataattca cataccatac 122100
 aattcaccta ttttaagcata cagttcagt gtttcatata ttgtgtatcc atcactacag 122160
 tcagttttgg agcattttca tcacctaaa aactccattc ccattagcag ttaccctga 122220
 ttcccctaca tcccagcac taggccacca gtaatgtacc ttctatcttt agagagttgc 122280
 ttattctgtc tggacatttc agtggaatca tatagtatgt ggtattttgt gattgtcctc 122340
 ttaggataat tttttttttt ttgggggggg acagagtctc tctctgttac ccaggctgga 122400
 gggcagtggt gtgatctcgg ctactgcaa cctccgcctc ccagattcaa gcgatttctc 122460
 ctttctcagc ctctgagta gctgggacca caggcaatgc gccaccatgc ccagccagtt 122520
 tctgtatttt tagtagagac ggggcttcac cctgttgcc aggctgttct caaattcctg 122580
 acctcaggtg atccaccac ttcggcttcc caaagtgttg ggattatagg catgagccac 122640
 cgcgcccggc ctcttagcat aatttttaag ggtacttgta gcatgtgtca gttcttcatt 122700
 tttttattgc cagataatat tccagcatat ggatgtatca cactgtatta atccattcat 122760
 caactgataa acatttgggt tgtttccct ttttggtat taataccgtg gctatgagca 122820
 tttatgtgca agtttttggg tgaatatata tttttattac tcttgggtat atacctagga 122880
 gtggaattgc tgggccttat ggtaactgta ttttaaccatt tgaggatgg ccagactgtt 122940
 tccaaagcag ctgtaccact ttatcttccc accagcagtg tatgagggtt cccgatttct 123000
 tcacattctt gtcaacactt gttattacct ggtttttttt ttttttttgg tctgtaatac 123060
 aattttatgt gttttttaat tcctttgcat tgttgatgtt tttcttgcca gggatcgga 123120
 ttcacatact taaggaagta gggtatggtt agctatgata tggctctgag ctgtaatgaa 123180
 attctgtgct aggaccagct tgtctatttg tctcttacct tgacttctga tcatagcact 123240
 aaccaaacca ccatgatacc acagaaataa ttgtttttaga agctcaaate taatctttta 123300

```

aatcttgaga tgtgtcacac atacataaga atgcataaaa tatatgtata aggaataatt 123360
aatagctggg catggtggtt catgcctgta attccatcgc tttgggaggc tgaggcagga 123420
agattgcttg aagccaggag tttgagacca gcctgggcaa cgactctgtc tatacaaaaa 123480
ttttttttaa aaaattaact gggcatgatg gtgcacacct gtagtcctag ctacttggga 123540
ggctgagatg agaagattac ttgagcccag gagtttgagg ctgcagttag ttatggtcgt 123600
gccactgcac tccagcctgg gcaacagagc aagactatat ctcatataag gaaaaaaaaa 123660
aatagaatta taaagcaaac acccatataa cccaccaca tcatagagta gaaatttaca 123720
gttctaagta acagttaata atgaacatga ctgaaaatat gtttagcattg taaacattaa 123780
taatcattaa caaattaaat cactttttga tgattttcct tttctttgta tcattttggt 123840
tttctttata gttttactgt atgtacaaac acacacacat gcacgcacac atgcatccaa 123900
caccgctacc ccaaaacatg agcttgaagt tgctgtttt tgaacttcac ataaatggaa 123960
acatactata tgtattcttc agtgacttct tttgcttaac atttcaaaga tattgtgggt 124020
agctgttcgt tcattttttt tcttttttgc tactgtgtag ttttctagct tctgtgttct 124080
cctgatgaac cttaggttg gttctgatat ttgggtatta tgagcagggc tgctatgaat 124140
attcttgtgg atatttcagg tctgtaagag tttcttcaa atagttacca aggagtagaa 124200
ttactgcttt cctagataat gccagagtct ttttaaaaat gttgtaatct tttctccac 124260
agcattacca gcctttggta cattcagact tttagcagtt ttgacagtct gttggttgct 124320
tctgtagcag tatctcattg tggtttaa ataatctcgc ttgagtttta ttattacttt 124380
taccttttca ccagtgcat ttgcagttat agattttttt attttctcaa agaaaagtgg 124440
acattgggct acctgaaaat catatttggg ctagtgaaaa ttcattgagc tagtagcatt 124500
ctttaggtta ttctgactga gaacttgatc acttagatga tgagtactgt cagattattt 124560
ttgatccat ggttttatct ggccttacac atttttgtat aataaaattt aaaatttatg 124620
gaattgctta tttagtttac caacttgata tgctacaagc aataagtctg tagtttgctc 124680
atattgattc taagcccaat atataaattg tcatttattt atggtgaatt aagtatttat 124740
ccctaagagg aatttacaac atctagttca aagtattctc aatattagga agtaatacct 124800
atatgtgtgt gtgcatgagt gtgtcagagt gtacatgtgg gccaaagtgc tgaaagatgt 124860
ggcatttttt gccagaggaa gaagtttact gaggaaaact caatattcta aaacttaaaa 124920
aaacttaata gtaatgtaaa acaaactctg ctttaattta tgagaacaaa taagattatt 124980
taagtgcgaa gaaatggggt gaaagcagaa ttttatttgt atgagattaa gaattgaccg 125040
aatactcagc atatgacttc tatgagagca aagtttcata atatgtagtg cattctcact 125100
ggagcttttg ctgttttggt tggttgtttg ttttttaact taaaagaaat aactacaagt 125160
aatatatcat cctgtcaggt gattcgtgta ctgtgttaga aagaaaaggt aacaaattac 125220
tgtgtttatt tccagttcct gaatgtagat gaatttaagt ttgttatagg gggaaatatt 125280
ttctgtctca ttgcaagtgt tctattatgg ctttcagtta gcaacacgtg ctcaccttac 125340
tcttaagtat tataattttt tcaagatata ttaggaatag ttatggtttt atttgtttgt 125400
ttggacatag aggttttact ctgtggccca ggctggagtg cagtggcacg atcatggctc 125460
actgcagttt caacctcctg ggtcaagta atcctcctgc ctcaggctcc ggagtagctg 125520
ggactacagg catgcgccac catggctgag ttttgtatct tttttagaga tgggatttca 125580
ccatgttgcc caggctggtc tcaaacttct gacctcaagc aatcctccca cctcagcctc 125640

```

```

ccaaagtgct aggattacag gtgtgagcca ccacatctag ccaggaatat ttatgttcta 125700
cctgctgttaa gaaaagccta cccaaaagtc aattctgtat gtcaattaat ttttttggtg 125760
atggagaggg agtagtttca aggaaaagtg aattcagcag attctttact gacactggga 125820
atctaaatgg gactgctgaa tagctttcca ttttttggtt ttggttggtg gattgaatat 125880
gttttatacc aaaatatagt ttattgttcc atgaatatat ttaataattg caatatctta 125940
taatctcact ctagattgaa ttttcatact gtagattgaa ctttcatact gtactataca 126000
gagtagaagt gagttttcat ttttaactac atgaaatctc agttctaagg tcaataaatt 126060
tttcttctgt ttcccacaag taagatccca ttatataaac catctcagaa gatgtccaca 126120
ttagagaata atgtttacaa gtagttacca aaatgagaaa ctgccaggca ttatttactt 126180
acatgacacg aatgttcact ctcttgaatt ttectataat attcataata attacattag 126240
attcagaaat tcaggaatat tttaacatac atatgtacta aaaaatacct tagttatcag 126300
aaggagagtgt ttcattttgt tcttttaaca aatgggtgct tttattcttt tgagaatatt 126360
tgtttcctag gtgaatgaga gctaattctt tatgcatgaa gggcctaaag tgctctgatt 126420
tatattaata aatatattga caatttagga aacatagaat ccttttagacc tttcctatag 126480
agaagaagag tagtctttgc aaatttgctt tacattggtg aaaaaagtca tcatctcgaa 126540
gccactcatt tcatcggaat tgggaaggcc accatcttat agctgggctt gtgaaccttt 126600
gacttttccc agtatatatt ggactatttt gatcactgct atatgcttct agttcctcaa 126660
tcagtatctg ccacagagga ggccctctaa attttttggtg gaattactta atgaaatgaa 126720
tgagtgatta ttgccttca caggattgtg tgagaccata taagggtgtg agagcggttt 126780
gacctccac cattgaaatg ctctttacca ttagcatcta aagtgattca cttgagaaat 126840
gtgtgtgctc tcgtgacagt ctgcttggtc cagccttgct ggaatctaga tccacagaaa 126900
tcctgtgttc atttttctct aaagaataat tacgaccatc taaggtaata gctaaagaat 126960
cgagacctgt aagaactctt agccaggtag agtggcctgt gcctgtagtc ccagctactc 127020
aggaggctaa ggtgggagga ttgcttgaac ccaggagttt gaggctgcag tgccctatga 127080
ttgtgtctgt gaatagccac tgcattacag cctgggcaac ataggagagac cttgcctctg 127140
gaaaaacaaa caactcttgg tagtctccta ataacctatt caaagagttc agaatttggc 127200
gggtgggtgg ggggaggggg gtccatttat ctctgttctt cttcatatct ttgccagaga 127260
agataatttt aaaaaagaaa atattgttgt catttgcttt tctacgaaag aagcacattt 127320
agatagttaa ggaagagtga aaaatgttct ttatgccgtt tacattgtct catttaatta 127380
tcccagtagc actgcaaggt tggaatagtg actagcctat tttatagata aggaaaccag 127440
agctcttaaa tattgcgttg tttgtactct agaatacata ctttaagggcc gggtacattg 127500
gctcacgcct ataatccaag cactttggga ggctgaggcg ggcggatcac ctgaggtcag 127560
gagtttaaga ccagtctggc caacatggcg aaaccccatc tttattaaaa ataaaaaagt 127620
tagctgggta tgttggtgca cacctgtagt ctagctact cgaggagctg aggcacgaga 127680
atcgcttgaa cccaggaggc agaggttgca gtgagccaag acggcaccac tgcgtccag 127740
cctgggcaat aaaaatgagac tgtctcaaaa agaataataga ctccaagagg gttgcagttt 127800
cactggttct gcctggttca cccttggtgc ttcagtataa accatggtgc cctggcacgt 127860
ggatatactg gttggtttta cttttgcta agataacatc gctagttaat ggaatctact 127920
gagatttgca tgtagttttt atgctttcca cagcctatga gctcttttca ctgcagtact 127980

```

```

ttaaagtttt ctaagaccgg ggtccccaag ccctgggcca tggatggtac ctgtctgtgg 128040
catgttagga accaggccac acagcaggag gtgagtggca ggcaaacgag cattaccacc 128100
tgagctctgc ctctgtcag atcagcagtg gcattagact ctcataggag cacgaaccct 128160
attgtgaact gcgcatgtga aggatctagg ttgcgtactc cttataagaa tctaatagcct 128220
gataatctga ggtggaacaa ttcatccca aagccctgcc accgcatcac atccatggga 128280
caaattgtct tccacaaaac ctgtccttgg tgccaaaaag gttggggacc actgtttgtga 128340
gatcatttcg agttacacct ctctgaaaaa gtggacatat tccagtgggtg tttacctggc 128400
agctgttgta atgctatgat gtaggtcttt tctctataca gaacatgctg atgctgatga 128460
ctgtattctt tggcagctca tagtatgagc atataataaa tcttatgtat gcacttttta 128520
ccctcacttt tcaaattgtt atatttagtc agtgaaagca actagaaaaa agtaaaactg 128580
ataccagctg ttatacatat tgccatatcc cagcatgatt tgctcctgta agcctgggtg 128640
tcacatacag cagtctgcct ttctgtctt cctactcctc ttataaaaag actctaccag 128700
attagccctc ttttctttta ttctgattcc tgctattttg aagttgtggg aaccagagaa 128760
ggagttcata tttctctacc attctatggc accttgccc tagtaggatg gagtagtact 128820
gagctgacat gtcagtggta tgctgggtgat agcttctatc acatgcgaga actgacagtt 128880
aaattttcag acattctatg agcggttgtt aaacatagtc attgttaaatt gttaaaatat 128940
acaagcttac aagttaaatt atatttaata actgataata tatactcctc acttctgttt 129000
atttcaagtg ttgctatata tctatgcttt taaagtttct atcatgtctg tgtgatggaa 129060
atactgtgct gctgtgtatc ttttctttt actttttttt tttttttgag atggagtctc 129120
tgccactcag gctggagtgc agtggcgca tctcggtca ctgcaacctc cgcttcccgg 129180
gttcaagtga ttctcctgtc tcagcctccc gagtagctgg gactacaggc ggcgccacca 129240
ctccccgcta atttttgtta tttttgctag agacgggggt tcacatgtt ggccaggctg 129300
atcttgaact cctgacctca gatgatctgc ctgcctcggc ctcccaaagt gctgggatta 129360
caggcgcgag ccactgtgcc cagcttggct cactgttgta agagctaagc tagattgctc 129420
aagtgttttt ccctctccta ccttgacata aaagttttgt ctgtgtcaga cattcgtatt 129480
ttcagccaca ccccagagtg catcactgat gtttgagggt cttcaccagc aagcccacgt 129540
cagcactcgg tcatgtctgt ccaaaagggt ctttgaacct ttggaggatg tggaatgcca 129600
tgtcgacctc agtgccacca ggggcatact cgagcccacc aaaggagcaa gtgaagggt 129660
tgcttgagcg gcgctccgga atgtgctgca gccttctgca gaatgatctt tgctgagtga 129720
ggcctgcctg taggagctaa ctggtatgtt tggtagtgga ggcatcggac agtgtagtca 129780
gtaacaagat actaagataa atgcaggggt taaatgcttc ctagagtgat gttttttaag 129840
ctggctagtt ttgtttattg caggaattag gtaactttgt tggagagcaa cttgaagag 129900
cagtggagat gagtacagct tcttggttac ttagccagta tcaagtaatt aaaaaccact 129960
ccatggatgg ggccacgccg gcagagaaac cttcttacag ggaatgactt tatgataccc 130020
acacttttca aagagtgggc tgcattgagc tggctctcatt gggaagcatg ttacctacga 130080
gtgagtgaga aaagctgcac aggtgcctag cagttgctct gctcatttca cttccactgg 130140
atgagttact ttgttcccca ttccaaaagc tgactgttcc tattccatt taaacggcac 130200
tttataaaat tctcatgtgt ctttacattt tatgcttgcc acaaagaagg aaattcattg 130260
cttgattaaa cttaaaatag gattttttta actaagggaa cctaaaagcc actcttgact 130320

```


ccaacatatc aatttaagcc actgcagctg cggtttctgt cccgtcctct gctgttttac 130380
acagaactgg ctcttagtgg agctcctaac attccaatct attttttttg tttgtttaaa 130440
tttcgttatc tatgttatit aaaaggtata ttaaaaatat aagcaaagtt gttttcttcc 130500
tccccctctag cttttattga aaatataaat gtaagcccag aggggaaaat tatttcctaa 130560
ttctgtaaag attcctgcaa cattttcctt ccaaggaact ggcagtatct cctctgttac 130620
tctcagttga atatagaata tttgggattg tggacaggtc atatgtttgt ttctctcctt 130680
cccccggtgt ccgctttgcc caagtcaaca agccatgggt gccaggaggc tcttcttggg 130740
ccaaagcaga taccaggact tcaccttgct gtgacagtgg ttggggacca ggaagatgag 130800
caagaatgaa tttgtaagca actgaatttg caagcaatgt attgattgta aatgaattat 130860
ttcgtacatc cctgtagtgt tccccagtct ccattccaat aggatccctg gagctgattg 130920
ggagagaaga aaaagagata cctgattgggt accctccta gctgttccag tagccagggtg 130980
ggcttggcag agactatgaa agaggcaagc tacaagtgga ttgagactgt ggggaatctt 131040
acaaagaaat aggggtgtat attgtttcga ctctttttgc gtggttgtct tctccaagct 131100
gcctagataa gtcagcagaa gggctcagat gaaacatgtt ttgtaaatgt aactttcagg 131160
taatgaaaca gtaccttccc attattgagc tcttttttta aatagctagt tttgagttga 131220
aaccaagaca atagatatc attatgcaaa cttttgagcc acctttatgg tattactgtc 131280
ttagtattgc tctaattgta aatgtcttct ctgtttactg taagataaaa cttttgtgtt 131340
cagtcagaaa ataaaggac tccttgaggg actttgccag gggctgcatg aagatatgtg 131400
gctgagacct atatacaaag gccttctgtg cagggtctat gtggctctac aaaagtggta 131460
agctgagctg agaggagaag cctacagaaa tggaaagtgg aggttcctgt gtccattatt 131520
tcaaactgaa gttgctcctt tatttagaaa acaaagcaac atgccagaca agtacataaa 131580
catttcatgt aattatatta agataggctt ggaaagtgt gatggagact ttaaaaacac 131640
ctggttcaaa agcatgtatt tatcttctct gaaattaact ggtgttttat gtcatttaca 131700
gtctagtgtg cacacttctt atttagcaaa aaataccact tcattttcat ttttctcttg 131760
ttgtagatgt ggcacatat actactggaa acttcgatgc ccagtatttt tttctctatt 131820
ctttttatta aagaatgggg tatcttttta aaactctctt tgcacactgg catgaacagg 131880
gaacacagta ttggtggaga tggggttggg ggaggtttag agggaggaat tgcattcttt 131940
tggcattcct gagaggaaaa cagctgtatt aacttttttt tttttttttt tggaaagtgc 132000
agaggcatct cccctgactc tcagaattcc agttctttac agctgagcaa aaacagcatg 132060
gcataattatt tatgcctgga gtcagcatgc atgaatgttg ctgttctgat tattagccaa 132120
gagaaaaacag ctgtatacat tactaataaa aggactttga aatgaaaaaa aaaaaaatcc 132180
aatagtgggg ttttccccta taaacagcag atgtgtacag ggtttttacc catgtctgcc 132240
ctgtacttta gcaccactgt cctgggaggt aaatggaagc cagcatgaga ggtggaagta 132300
tggtgaaagt agatatgttt gtagcaaaat aggtatgctg tggttgacta gagacatttt 132360
aaggtttatt attttaagag agcagttgtg cctagccatc attccattcc tctccttcg 132420
cctctcataa aaagaaaata ttgtgtacct gcaaacatat gctctgctat cagcattcag 132480
acacccaaac accgaaatca tttagcagct cttactgctg tcagtaagca gatgatggcg 132540
taaggggttt agaatttgat atgtgttttc taaagcatct ctcaaaatag gcattgtcta 132600
tttcttgttt gttgcttgtg ggaaattttt cgtcaagtgt acctgtacct aacctatgac 132660

taaaacttac ctagatctta atttctagat ttaaaaagaa gaaaaaagg atcaagtaag 132720
 gaacagcgaa gtaaagaata tctaagatta aaagtaggaa tagctacaat tacctagatt 132780
 tcaatttctg gggtattttt agtgtgacaa agtaaagagt gtccaaaatt acaaactctga 132840
 gggataattc aaagatcctt tttgtgtgtc attgttcctg ggggaatatg tttcctgggg 132900
 gaaggagcat atctgactgg tcccagggaa gaaatgaagt agaactggta ttgaagagat 132960
 atctttctat gggaatccag caaaaatact gggttccaag aacttgcttg cctggggaac 133020
 tcccagattc tttaaaaacc ttacatgtga aatagcttaa cataaatata taggtttaga 133080
 catactgatt gatgtttcag tgcctatttt tatatgcatt tatatcgctc aggtcatcta 133140
 ttttccactt gttctattaa gtcattgttt tgcaaattgt caccatttaa atataaggga 133200
 cctattttgc ttctttcata ttcttcgaca tttcctcaat gaaagaataa ggaaagttta 133260
 ggagtgaatt acttaggggt tattctactc tgaggatttc agttttacta tagctgtatt 133320
 taatcttata ttaattgggc acttatatta atttagtgcc tgtataatgt tggcactgaa 133380
 atggttcttt agtgtgtgtg gagaaaattt caatgaagtc atttatagaa aactgttttt 133440
 ctcaaggga tttccctttc cctttttcag aagtcagagg aaaaaaaaaac tggaattaga 133500
 gtatagagtt agagataaag cgaaacgatg gcagaatatg ctgagacatt tgctcagggg 133560
 ttaaaagaca gggagtttat agaactccct tttctgcttg tcataagggt atctgttcct 133620
 tcttttgac atctctctag aggtgttccc aagctttgta tcacagattc ttttatcgtg 133680
 ggggtcctaa actttaacca tttaaaaata aaaaccaagg gttaccaaac acctaatag 133740
 agacttctct atgaagttac aagaagtaaa caaccatag gaagaatttg atgtgttctt 133800
 tgaagtcact gcttgtaaga gaagacaacg tgtaattttt gagttactgt atgactcacg 133860
 ttggaaatgt ttaaagcctt ctgtaggcat ggtgtggtgg ctcacacctg taataccagc 133920
 actttgggag gccgaggcgg gaggatcact tgcacttagg agtttgagac cagcctgggc 133980
 aacataatga gactttgtct ctacaaaaaa aaaaaaaaaat taaaaaaatt aaaaataaaa 134040
 aaaattagcc aggcatagtg gtgcatacct gtagtcccag ctactcagga ggctgaggtg 134100
 ggaggatctc ttgagcctgg gatgtcaagg ctgtttgagt tgtgattgtg gactgtgtt 134160
 cctgcttggg caacagagca agaccctgtc tgggggaggg gtggggcgcg ggggtgggaag 134220
 cctcccgatg tcctaggaat agaaggcttt tgctgttgca ggagtactga aatggaatag 134280
 taggagctgc cagtgaact cattcagtgt tgatgtagca tgttttaaga atgtgttatt 134340
 tacggggaaa actctcgagt tcgtcagcga actgagaatc cattcatggg tgcagaaaaa 134400
 gatgccatt gcgggaaatg tgtctgtact ctgtggcacc tccttaggtg ggaggaatgt 134460
 ggtgggggct gtgaagactg tgccactttc acacctctgc atgcagaatg actctcattc 134520
 tcttttacca aagagcgaat tcattattga acctgttagg atccaaggca ttcaagcata 134580
 tttggggaag actactcttg ttctctagag agacaggtct aatgattaa gtttccaaat 134640
 actgagctta ttccagaaat aatttggttt ctgcatgctt tgttttctac agcatggtga 134700
 gactgccact tagttagact gactcttggt aattgaagcc tgtttacaag aagtctgaca 134760
 tacacactat tatttttagc ctgaacaaca tgaaaacat ctatttaaaa ctcccaaate 134820
 tgaatgacag tctcatcttg cttaaaattc cttctagtag tttttaagcc aacagaaagg 134880
 aacatataaa caatttgta attgcaacag ctggtccctg agtatcttta tgttaatgtt 134940
 tggaatcttt gaatttgaaa gacttttaga aagagcatct ggattaatgt agtgctattc 135000

```

agacttcagt cttgagaagt ggaatcgacc tcatcaagac aaacaaacag gggccttata 135060
cagattggga gggcgacagc aaaggcatgg tgaaatttct ttaaaaatct tagtagagaa 135120
tgaagacaaa tggctctcgg tttggttggt gtgaatagcc tcttatttaa tttagtatga 135180
tgtttatcta gctgctgtgg taaatgaggt gaaatctttt gtgtatacag ttaattccca 135240
attattcata catgcttttag ccaaattgct gattctctgt ggactttgga gaccttcccc 135300
ccgccacccc ccccccccca atacaatttg ctgtccatcc ggtcccatgt cctagtttcc 135360
tctctggcca tgctttctca caggggttcc cagttgctct cctcatttcc atctttgctc 135420
cctgaccagg cccctgctgc ttttgcttcc tcgtgctgtt tgctttctct gctgcattcc 135480
ctggatttgt ctgacagtcc agggttcttg tctccttgcc gttgtctctc tcagtcattc 135540
cagagtggta atagagaagc tagttgatgg ccagggaata gctacagaga gctaattgtc 135600
gctgctcctt gcttctcttc ctgtcacctt tgggcctttg ttgaatgaac aagtggagag 135660
taagtagaga aaggggttcc ctgaaacatt tccagcctgt tcttttaagt gcttttttcc 135720
ctcaggattt tatagtccta tacgtggtag gtaggcggat gggcggttgg tgggggaggt 135780
attacagcaa aatgcttaca tattcttttc acctcttggt ttcttttttg ttctcaactg 135840
ggacctacta ttctcctccc cattgctgaa aggcaaatc ttagaaaggg gccatttaga 135900
gtatgtgtag ctgaagaacc tcaaatagtt cttcatttag caaatattta atttcttgag 135960
ttctttttat gttttgaata ttcttagaga tacgaaaatg aatttgatgt agattctgcc 136020
cttaaagggg ttttaagtaa atctagaagc agaatttaca cagacaacca cacagaaaac 136080
cctaaatcta aagccgatat gtaaacacat gattaccata gtaagtgaag accttgatcc 136140
gcgttgagga agtgtgaagg gtctccccag aagacattgt ttttcttggg gaggggatca 136200
cagtagtaca gatgtgaaaa atctgcccta atattttttg tttgcactat gtggatggaa 136260
atgaaaactt acctgtaaca aacagtttta tctatagaat gttttataag cctatttttg 136320
ttccttttct attatatgtc tacacagaat ataaatttac cccatcaggt gaaagctcag 136380
cataggtgtg caagccccac ttggctaaaa tattggttag agcaataaaa tcctgtgttc 136440
cattcccaaa ccagttccaa gccaggtaat ggggtgaaaa ggcctttgat tagttggatt 136500
tcctataaac caactctgaa gtacgcatgc attgattgaa ttaatagaag agcccttcac 136560
tcccttgcca gagcctggtg ttgcttaatc ttttagtagt tccactaaag cttttggttt 136620
ctaagcccaa atgagattac aaccagcaaa ttttaaagaa gtggagctaa gagagacgag 136680
tatagtaata acaagtctga aaaactgcaa gaggacacaa gaattctgag tgagcctggt 136740
agtttctagt gagatttcca tttaaagttt tgatagttaa ccttccatgg actatctcag 136800
atcattcttt ggattcataa agtatttttg ttagtttctt tgccatagcc aaataaaaaat 136860
aatctctgaa ttgagttagg aaatttagtt cctgctacaa ctgcagattt catgtacagg 136920
aagaggaagg ggtgggcaat tacagaggat tagggaacat cccttttagag ttcttctctg 136980
gatgacaatg gtcgaatgag ataattgtgag agtgctttgc agtttgaaag tgctgtagga 137040
accctgaatt catctgaaac ttagcttagg tgtttaaatg atgtctgtta ttactttttt 137100
gaatagtctg gagtgcttgt taaagaaaaa attattctgt gatatttggt gaatgaagca 137160
cagtagggaa gactttactc agggcccttg taatagctat aggaccact gcaatagggt 137220
cttgacgtgg gggagagaga ataggctcaa ttctgaatac atcatcatgg gcaagtggga 137280
atttatagcc aaggagcagt gtggggatca gtggatggaa aattactaag acaaaaccta 137340

```

```

aggggtaagg gggcttctga ctcaattgcc ctaataagat tcttggtgaa gacaggccag 137400
ggtgttgaga cattacctgg ggagatgggtg gaggatgagg aacttgatca gatattggag 137460
atgatcagaa attgaggatg gagggttctg aaactgactt aacaggattc tttgctaaaa 137520
ccagattcta caaggaaata cacatatggg cctagcggaa gatacagaac cctaactgaa 137580
gtttggctga ccaaaaagaa tctttgttac tgtaaagtat tcggattcct gggcctaata 137640
ccaggtctac tgaatcaaga tctctgaaga caaagatgtc agaatctaca ttttaacaga 137700
ctccttgggc acttctttta ccctattacgt tagagctgct tagatagaag ttgcaacttt 137760
tttggagtct gagttttagt ttgtaaaact ttgctttttg atagaagggtg agtatgaatg 137820
tggtagctca atcagagtgg gccacattgt aactaagtga agggattctc aaacatctgt 137880
cttgagata gagatggaaa gattcatgtc ttgaaagctt atactgtatt atatttaatt 137940
tccttatatg ataaaattta ccaaatagct ctgaggaagg aatcattttt accaccatct 138000
tttttttttt tttttttttt gcacaggggc aaattgaagc ttagaaagga actttttctt 138060
ttcttttata aaattttact ttaagttcca ggatacatgt gcagaacgtg caggtttatt 138120
acataggtaa atgtgtacta tgggtggttg ctgcacctta acccatcgcc taggtattaa 138180
gccctgcatg cattagtatt ttgtcctgat gctctccctc ccctcacccc tgtccctgac 138240
aggccccagt gtgtgttggt cccctccctg tgtccttggt ttctcattgt tcaactccca 138300
cttatgagtg agaacatgca gtgttcggtt gtctgttctt ctgttagttt gctgaggatg 138360
atgcttccag cttcatccat gtccctgcag aggacgtgat ctcatctctt tttgtggctg 138420
catagtattc catggtgtct gtgtaccaca ttagaaaagg aactttctta ggaccataca 138480
actggttggt gaaggagcag aaattgaaca ctggcctgtc tgggtctgaa gccaagctc 138540
tcagcctcca tgcactctga attgcctagt gctgatggcc acagtcatca gggaatagag 138600
gttaagggag gagaggcagg cagaggctaa agtgtcactc cagctgtggg ctaaaggatg 138660
ctgacctgtg gacattagcc caaaccccag caaacccatt aggcatagata cactactatg 138720
taaatttaag gcctaggaga cattttagtc aagctgggtg ctgtcaccga gagctcatat 138780
attgactttg tcaagcaaga gtgagaagag aagatcacat gttttactta acattgcctg 138840
taaacttttc acaagacttt tcaaatcaat acttatgctt tttctttcca tattgtaaga 138900
cactcagact ggtaagtga gggactttta agcttggcat tggtttaggg ctgtagctat 138960
gggggtagca ggaaaagatg ggaggaggga aaagcgaaag agctggacac atgtggacac 139020
tcagccgggg catccctggg accccacatt cttgagattt tattatgtct tgagaccaa 139080
tatatgtgga gggagtgatg gtaaaggtga taaaagtga agttataata gaatttcata 139140
gatagggaaa attgaaagaa ggataatata gtttatgggt aaaaagcctg tgccacattc 139200
tgagagcttc aggtctttt tcttcacac tacccttctc agcgctcca cataccagg 139260
gggtaagctc tagtattttt gattttcata tttctgcctt gtgattaaat atgaatacca 139320
tattgactag aaaattgggt tgtcttttaa ttatggtttt gaaaaggttt actctctttt 139380
gctattccat agaggttagt aggccatagg gcccctttat cttattttatt tattttattg 139440
ttcattttatt tagggacaga gtcttgtctt attgcccagg ctggagtgcg gtggtgcaat 139500
cttagccac tgcaaagtcc gcctcccagg ttcaagcgt tctcctgcct cagcctccc 139560
aatagctggg attacaggca cgcgccacca tgcttggtta atgtttgtat ttttagtaga 139620
gacgggtttt caccatgttg gccaggctgg tctcgaactc ctgacctcag gtgatctgcc 139680

```

cgcccttgGCC tcccaaagtg ctgagattac aggtttgagc tgccgtgcct ggccgggcct 139740
gtttataact attatgctca aggtaaatgt agaattgtaga aattaaggtg aataaaacat 139800
tcataattaa agcaaaacat taattttgta tgttcaggat atatggtatg agctgggaca 139860
cctgggcttt gagccacaac ttcactgtct acaacacaca caaacttcct ccctccccc 139920
ctgtatcccc tccccacca cctccgacct ccacccaac tgtaaaagtt gaagctgagc 139980
atgggtggctc ccggctgtaa ttccaatact tcgataagtt aaggtgggag gaccacttga 140040
gcccaggagt ttgatgttag cctgggcaac atggcaagac tccgtctcta caaaaaatac 140100
aaaaagttag ctgggcatgg tggcgactgc ctgtagactg agctacttgg gatgctgagg 140160
taggaggatc atttgagccc agatgacatc actgcactcc agcccaggca acagagttag 140220
gccctgtctc caaaaaaaaa aaaaaaaaaa aaaaaaaga gtgtaaacag gtaattttac 140280
tgggccttag tttcgtttct tcatctctct gatgaggggt gtggctgaat gacctctttg 140340
gggtttttac atttcacagt tgtcaatcat aattttctgt gacctgacc aagcctcact 140400
ctgacctaat gactcataca aacatttctc ttcttctctt catgtttgcg tattttgatt 140460
gcacatgtac cttggactta gtggggtcac tggcaaagca agtgtatttt ctgaaataca 140520
ccagagaagt ggggtgtcac agtgttttcc cttgggtcga gccatgcttc tgctgtcctt 140580
ccagctggaa tctgtcagat gtggactgtg gatctcctga gtgcttagta aaaatgcaga 140640
atcctgggcc cttgcagac ctgttgaggg ggagtctctg gaagtaaggc tctgggctct 140700
gcattttaat aagcccctaa gtgatcccca ggctcactac tgtttgagaa catgaatgat 140760
tctcctctaa gtatgcactg tggctcttag atagaacca tggttccctc aaggcagggg 140820
tcatgctgtg tgtgtgttta taaatgaaac ttctcaggat aaattgtgat catctagttt 140880
attcactcat gaaacaaata cttgcatcct tcttttatac aaagtcctgt gttagttgtg 140940
ggaatggaga gaagagaatg tatctaagga ggcagagcag acagattttg gcaactgatt 141000
agatatgagg gatgtgggag aggtcaaagt tagctagcgg gtttgatccg gagtgtggaa 141060
ctctagttgt gccagtacag aaatgggcag acagtcattg gaacagtttt gagaagaaag 141120
atgcccataat aggaaagagc ccatagaatg gttataaaat atgcctggat ttgtggaacc 141180
agttctaaag ctggcattac tttcagattc ttagtatctt agaggtgggt gtgatcttgt 141240
agatcctgtt tcagtctcct cagaagcggg aaaaattggt atcatttgga ggctattgtt 141300
taggttgggg caaaaaaata taatgggggg agacattata tataaaggtg atatttactt 141360
cttagacttg agagaagctg gctttcttaa taatctctaa ctgattttga acctctatta 141420
gaataagccc tggaaataat attggaaatg atataggcat tctaagtaga tatattctaa 141480
gatgacagcc tgggtgtggtg gctcatgcct gtaatccctg tactttggga ggccgaggca 141540
ggtggatgga tctcttgagc ccagcagttc gagaccagcc tggataccac gatgaaacct 141600
tgtctctacc aaaaaatacaa aaattggctg ggtgtggtgg cgtgtggtcc cagctactca 141660
ggaggctgag gtgggaggat cactggaacc tgggaagtca agggtgcagt gagctatgat 141720
tacaccactg tactccagag ctgggtgcca gaggtagact ctgtctccaa aaaaaaaaa 141780
aaaaaaaaaa aaaaaaacac ctttagaatt tactgtcttg tggtaagta gaatgttggc 141840
ccgtcttctt caaagacagc ctttctctcc tgatttcctt taaactaagg aggaggaag 141900
taattaagat tttcagtggt aagccaggcg tgggtggtca tgcctgtaat cccggcactt 141960
tggaagcct aggtgggcat atcacgaggt cacaagattg agacctgcct gaccaacatg 142020

```

gtgaaacccc atctctacta aaaatacaaa aattagctag gtgtggtggc acacacctgt 142080
agtgccagct acttgggagg ctgaggctgg agaattgctt gaaccaggga agcagagggt 142140
gcagtgagcc gagatcacgc cactgcactc cagcctgggtg acagagcaag actccatctc 142200
aaaaaaaaaa aaaaaaaaaa aaaagatttt cagtggggagc acagactgct gctcactcac 142260
tgagtggatt tcattatgta gtctcagtgt ttcccagact gcttgacaaa tgaaggatgt 142320
acgttattgc tttttcctta ctttggcctg agaatgatgc aaagcaggcc tgttgcat 142380
ccaagcatct tgggatgctg cactgagtaa taggctttta gtatgtgtta ctttgtcaac 142440
agcagtgact gctatgcccc ggacatcagc attgagttgt ttttgacttt gtgggggtga 142500
cttcctattg tcctaccaga atcagcaagg taagtggga gaaatccttt gtcagcagga 142560
tgagaagcag caagtgaagg ctgggctcag tggaggagaa caattctagg agctggcgtg 142620
gtcacaggaa ggatagagaa cacggaggtc aggaggaagc atgagtcagg ctggtggctg 142680
tccggggctt tctcacatta gcagctggag agccagggtc gaaggttgag tcgtaagtgg 142740
ccagccttgt gaatgtggta tgctagacac caacagaact tcctggagct gggagtttcc 142800
tggggtcttc ctgatgtgta agaactgatg atcaggacct tacaggttat gtgtctat 142860
tggttgctcc ctctgacagg gcagtgggtg tgtggtagat acacttttgc tggaggcatt 142920
tgctaggtag gtgggcaaga tgtgatttgt attgggtgta atactcaatc cagcagtgt 142980
tctctgtctg agtcaagtcc agactgcaag aacctgttaa acgcagggaa ttccaacata 143040
gaatcttaag aagtttctct actttgaatg tatcctccat gtttttcgtg tcgacagaag 143100
taaaagtgca gtgatacatg agtaaatttt cagctctctt atcataggat ttgtttaatt 143160
tggtaccagg atgtaatgaa cttgagggtg gtgaatgaga aatggagatg aagtgtttta 143220
ttagtttaga aaaggagta aaaggaactc tgagtgtagg cacgaagctt tcagctctga 143280
aacttcacct ttttgccaca ctagcagcag agaaattacg gaaagctgat tgtgttgtct 143340
atttggaag tcaaagcaag atacagcaag ctaaaagatg agtcttctag attgctttca 143400
ccttctgtga catgaaattt ctaaaaataa gaaataagga gcccctgggc agttgctctt 143460
tagaatttgt gtggacagat ccaggtcatc cttgttcttc tttgtgtttt ttatgaagt 143520
agactttctg attagtgagc cagaaattta atctgacagc ttttaagttt gatgatttaa 143580
aaacacaatt ggttataaaa attttaaatt tataatttcc agtaaagtag gaaatgaaa 143640
ttaccctttt gctcccaatt tcacttccag aggtttatat ttaccatgta ctaaaaccta 143700
tcatttctca tctactttat aaatgtatga aaaactctga ttttatacct cttttgctgt 143760
gtgtcattaa catgatttgc ttaacttaat tttatgtcca gtatggctct tgagagaggg 143820
aactgtgtca gaatgtgtgt atcattttta cccatttctg gttgttgggt gaaacacagt 143880
taagtgtctt actggcttta ctgctgggtt gctttataag aaaattcaat ccgttttgtc 143940
ttcaggtaac actacatttc tttcagtctt ctgagacatt tcatggtttc acttatccag 144000
gtgttgctaa tcttacatag cagtttatat gccttgctta ttcttcttaa ctaagataac 144060
ctgttgaaag attattaaat tcaactatat tataaaatta ttaaactgta ggcgggatgt 144120
gttttcttcc tttctcacgt agcttccctt ccactctgga aatggaaggt ttgacatccc 144180
atcatttgat aggtctgatg actttccagt attttaagca gtaatattga gactagggtc 144240
tcttgttcct cctatcctta agttttggca taatgatttg cattaatatt actagctaac 144300
ttttattcat ttttactcta tgccaggtag atggctagat gtgtaacctc ctctgatcc 144360

```

ccagaattac tttaggaggt gtaggtgctg ttattaaaaa tacaaaggaa gaaatggagg 144420
cataagtga taaagataag taatttataa agtaaataca agtaaaaaat gaattattaag 144480
taatttgcct gcagctatta agagctatga agtgatgggg tggaaatttg tccagaggcc 144540
cccattcccc tcaaagccct tttaatctct gcgctctgct gcttcttgta cccttttact 144600
cttgttcttt tactcagctc atattaatga gcactcacca tgccaggctt gggtctgggt 144660
gctgagaaga cagcagcaaa cagaactgac aatgaagaaa gagttaaaca aataaacata 144720
taccagagga ggtgatggcg atcaagaaaa tactaggtaa gagagaggga gggatatgctt 144780
tctggcaaaa cttataaaaa tatgagaaac tattctagtc attggttcta tttaaacagc 144840
ctaggacagt atgaagaaaa ggcaagagtt gagcggaaaa aataaatcag tcctaaaaac 144900
agacaaaaac cccctcaaat ccaggaccta tcaagtttca tatcttcatt gaaatgggtga 144960
caaatgggtg atcagtgtga aaaccagaaa ggctaattgt ttgtatacct cacagggcag 145020
tgtgtgatca tccaggaggg acatgtgaag gaggttaaga tttaaatgtt ggaaacacca 145080
acattcta at tttcctgag tttcaacacc agtcattcaa gtaacagttg taaggaattt 145140
tcttttgga ttttcctttt ccttttaggt ctcccccttc tttcaggatg gtggggagca 145200
agaatcccta ggaatattgt aaaaatattt caccaagaac tgctaattag cagaggtctt 145260
ttcttgatc ccttttgata attcccacaa atgaacttaa gattcagaag caaaggaaaa 145320
gaaaaaaga ctcaaaatac aaacattaag aaggaatatt ctgaccactt tggaagtcac 145380
cgtcttaagt gctgaaaaat tatccattaa aaatattttt tcaagagggt agatgaaagc 145440
cattgctatt tgccatttag aaattgtgtt ttctcagag actgttgta tgaacattgg 145500
tctattaata acactgaaca atctccactc catcatccat ttggtttgg tctggcaagt 145560
ttataactcc tttcacatga catatagatt tttcatttat aaaaagttgg aaaaaggatt 145620
tcccatttct tccagctagg tagacttaaa aaacatcgtg acccctttct ggccccctcat 145680
cttcttccca ctgtacccat ttattggcct gatagcctga agattgatta gagagaagcg 145740
atccagatag acttgga aaa cacctaattc tgtgcatggc cgcacctctg aaaaattgca 145800
tgcactataa accagagcat ttcagctttt taaaacatgc attgttacac tggggaagat 145860
agagacattg agttcttcta cagaatgtat ctaccgtatt ttcaagtttt taagattgag 145920
atagttcttt tgcagaggtc ttttcctat tgagatttga aaaggaatgt tttgatttta 145980
aaaacttaaa agcaaaactt aattccttgc tgtttgcaat atgtcatgat acctgtgtc 146040
tttatttagc gtacgtttat cataggaaaa tttactgttg ccagaaaaca ggccaatgga 146100
atctgtgaat tttgtatttg tgatttagta gattacaaag aaaaataatt tgacgtattt 146160
gcggtgcttt ttaattatga ggaaattata ctgcattact ttaatgtaga cttttcactt 146220
tctttgccac tctcaaattc agtcagtaa gtgtattgaa ttttcaccaa atggctagct 146280
ctgggagctg tcaactgattt aggggaccac actttctatt ttgcttggg actaagatgt 146340
agaaaccaga taataaaaaag gagcgttaat ataattggca aaaagatgggt tatagatctt 146400
acaagtgtct caagtgagag aggttagaag aggaagagag aagtgaagc tgaagtaagg 146460
atttcaaaag ttgggaagct tcacgaattt ttatgaatta agcattctta gaaatcctta 146520
catcactccc ttcttccatc agtagaacia aagccttttt ctcttatgat gctctgccta 146580
ctatagtttc tttactatat ggaaactgga aaaataagta attgggttta tcaactgtga 146640
tgtctaaata aaatttggga ttacaagtgc ttttctctc accctcataa cattttataa 146700

gaaaagaact cccaatttgg ggtttgagca tgttcctcta aaagcatcgg aaatacttgc 146760
 tttattagtt cagttaaaaa tttaaagatt tatggtagga cacatccata ggtgacttca 146820
 tagaagacca ccatgggact cagtgagtac ccctccagtc tgggaaaagc ttgacaaaact 146880
 acataaacct gagctgaggg agaaaatata catgccattt ccccaaattc ctggtttcta 146940
 gtgtcttggc actatggtat ttttactctt attttataaa tcctatacca gcattttaaa 147000
 aaatgaagaa aatggcaaga aaatcatgga aaatttgagt cctcatttag tacctcccta 147060
 tcttgatttt ttgtctttta acagatgaag tggatgaagag agcctgcgat tgaagatttt 147120
 ttcattctcag ctttttcccc cttacctgt tctctctcat gtttcatgat ctgtgtcata 147180
 gatatttctt cattacgagc acttcgcggt gtggcttttc aatgtctgaa gtggattaag 147240
 tggccacacag tcagttctgt gacttgagtt tcaaaagtaa aattaccatc aacaatgtga 147300
 ttcaatttta ttttctatac tagctaaaag caaggaacta tattattaac aatcttggct 147360
 ttactgtagt ttaaggcagg tgatgatgat gcttattagt ccacctgaaa gagtccttcc 147420
 aggttttttg aagctttatt cctgcttatt acctgacct tgagaagtcc ttcattgaaa 147480
 gtggaaacac tgggttgact tcttttcccc atatcctagt tgaaaggac agcttatatg 147540
 tatgttagac tgtccaaaag tgttttaga acctatttt aaaaaatcaa ctgtattgta 147600
 ctttttaaaa aatgggatct taaactctt attaaaaata ataatggaa atgtgttaag 147660
 caaaaacatt acttgacctc ttcttattca ttgtgtaata ataactgata aaataattgc 147720
 tttatttaca tctgtattga ccatggctga acttcttgcc agtaggggtg tcgtgagtcc 147780
 tgttcatctc tctgcccctt ggtgggatgc ctagcacttg gccacttgg aaatactgga 147840
 ggaatgattg aatgtgtgaa tcctggatta gttctcagga atattataat agaaacaaca 147900
 atgatattta gtaaaaattg aagacataat tatccagtta cttctacaac ttttaaacca 147960
 acttcaatga agttagtccc aaaaacatat tgcagatgtg tttgggtaac ttctttcttt 148020
 gtattgtttt ttccccctc tttggagact ggattctcac tttgttgccg aggctagagt 148080
 gtggtggtgc catctcagct taggtgttcc tcccatctca ttgtcctgaa tagctggtgt 148140
 atgccactac actcagctga tttttgtaat tttgtagaga gcggatttcg ccatgttgcc 148200
 tagtctcgtc tcaaatggct gggctcaagc agtttgccca ccttggtccc ccaaagtcct 148260
 gggattacag atataagccg cggcccagcc tgtattatta ttaattataa ttcaacccta 148320
 ggaatataca ttgagttata atttaaattc catTTTTata ttttaagcagt tttttttttt 148380
 tttttgagac ggagttctgt tcttgttgcc caggtggag tgcaatggcg cgatctcggc 148440
 tcaactgaac ctccgcctcc caggttcaag cgattctcct gcctcagcct ccctagtagc 148500
 tgggattaca ggcatgtgcc accacgccc gctaattttg ttttttagt agagacaggg 148560
 tttctccatg ttggtcaggc tgggtctcaa ctccgcacct caggtgatcc acctgcctcg 148620
 gcctcccaaa gtgctgggat tacaggcata agccactgtg cctggccttt aagcaaagtt 148680
 ttataggcat tactgtttcc ccttgcctat tttagagtgg tggaactgaa gtttccccct 148740
 gctatgttta gagtgggtga actgaagttg gttttttgtt tctttgtttg tttgtttgag 148800
 atggagtctt gctctgtcgc caggtggag tgtagcgac cgatcttggc tcaactgaac 148860
 ctctgacttc tgggttcaag caattctcct gcctcagcct ccagagtagc tgggacttca 148920
 ggcgggtgcc accacgccc gctaattttt tgtatttttg gtagagatgg ggtttcacca 148980
 tgttggccag gaaggtcttg gtttcttgac ctcgtgatcc gccgcctca gcctcccaaa 149040

gtgctgggaa tacagggtgtg agccacggct cccggccccga aactgaagtt gtttaattga 149100
gaagttttcag ggctgtgaaa tgtacactga gcacacaccc tgcacatttc atcttccccgc 149160
ctttgttttg gattctatat cttcagtgcc cttaaagtgt gaaactctca atcagacccc 149220
gcttcctgca ctgctcccca ggtatcttac attccttgca acattttaga ctgcatgtac 149280
tattttgtac tcaattacat aattttatit tgttcactat tgttttatcc ttgcttgggt 149340
gttttcctca ctatgggaag aagaacccta agaatgaatc atctcactgg gaaaggaagc 149400
atttaaaact tatttaatgt atttttataa ttgggggaact gtaagtattt ctttttagcat 149460
taatgcttgt ttccaagaaa tggatgaactt acctaaactt agtaaatttt tgctcataata 149520
atagaatatt cacaattgtt ttttaatttat aaaaatgtaa gttgctttct actagggtgt 149580
tatttttaggg gggaagattt gtaaaaatgt tcagtcaaaa tattgtcatg ttaatcgat 149640
ttttcaagat gtgctaaaaa tgatttccca cttagaacia attagctgga ggccacctta 149700
tcccacctcc agccccctct gcaacacctt tcatagctaa ttacctgctt ttcatccaa 149760
attttctatg acaagggtgtt cctacctcaa cagggtgatc ccatggcaac gaggtagtct 149820
gttctatttt tggagtatga aagtagtgcc ttcttaaate taataataaa tgagagttcc 149880
agaaaaccag tgcttcaaac aaatttgatt tacttgaatt tttttttatt ttaaatcaca 149940
ctttgggagg ctgaggcaga aggatcactt gagcccagga gtttgacacc agcctgggca 150000
acatggtgac actctgtcta tacaagaaat ataaaaatta gccaggcatg gtggcacacg 150060
cctttggtcc cagctgctca aaaggattgc ctgagcctgg gaggttgagg ctgcagttag 150120
ctatgattgt gccactgcac aacagcctgg gtgacagagt gagacctgt ctaaaaaaaa 150180
aaaaaaaaaa aaaaaaaaaa aaaaatcatg tcattcagtc atgtttttat tttttttca 150240
gactgaggag ataggaacc agtttaattg tgatctttta ttattttcaa aaaccagcaa 150300
ctaccattta ctagtggctt attgtgtctt ggcagtatgc tgtttttatt cctattgtgc 150360
agatgaggaa actgatacgt caagtcttga tcaagttcac agaactagca agagcaggaa 150420
ttggaattct aaccaggcg gcctgctttc agatcctcca ctctaateca tttctctgtc 150480
ttgctggagc cttgctagaa tgcttcctct cttgggagtt cagccgactg ggagtgcctg 150540
accctttata aagggtgcta atatgatggg cagccctacg caaatagggg tgaatggaat 150600
gaagggggat gagcatgatg ctatgggaat gtagcaagt cagaaacacc ttggaattca 150660
gatagcagcg tgcctgtca ctgatgttta aaattatata gtttgaaata taatgttttt 150720
aataaagttg gttgcagatg actcaacagc tatgggagtt atcagaaggt gatgtagaaa 150780
tgcttttagt gttcttccaa atgctaggaa tcggattgca gcattctatt cactcagcat 150840
ttgggtcatg agactctcct ttcatctgt agtcaatttt caaattttgc ctttgtaaat 150900
attaaaaggc tcaagtggat aaactaatta aaccataatg gttcagttta ttttattgtg 150960
acgccttcta gggaggggtt tatgattaaa tattcaaaaa tttgccttgg tttgataacc 151020
attgtgtctt tttttgtttt gttttgtttt gtttttttga gatggagttt tgctcttatt 151080
gcccaggctg gagtgaatg gcacgatctt ggctcaccgc aacctccacc tcttgggttc 151140
aagcattct cctgcctcag cctcccaagt agctgggatt acaggcatgt accaccatgc 151200
ccggctaatt tttttattgt tagtagagac ggggtctctt cattttggtc aggtgtgtct 151260
cgaattcctg acctcaggtg atccgcctgc cttggcctgc caaagtgtg ggattacagg 151320
cgtgagccac catgcccagc cccatttgtt cttttgttta atgatgaaat attgaagaaa 151380

```

gaacttgaaa ttatctttat attttaatct tatttcacat ctaaaatcat ataattatat 151440
aaatagatga gactgtagaa tataaccaac cctccttatg ttccagacga agagactaag 151500
gctcagagaa gccatgtaat ttgcccagg ttgcacagca cacagctatt gatgaatgga 151560
gcctgggttc tttagcctca tcacactgag tttttgtgca cgtgctcatg atttttaatt 151620
tggttgatgt taacatgttg gcataatattg aaagaagtgg gagtgcctt gaagaactta 151680
acatgtatta aacatttgct tcgtgctggg caaattttac tctttaaagt accatcagaa 151740
ctgatagtat tgtcactgat accatcatta ttgtcctcct catcatcatt cccatttcta 151800
gagacaggag ggcctgaatt tctcagaggt taagcagatt ctttgagtgg gggatctagg 151860
tttcaaattc attgttggtt tttttaagag atgaggtctc actctgtcac ccaggctgga 151920
gtgcagtggg gtgatgatgg ctcaactgcag cctcaacctc ctgggctcaa acaatcctcc 151980
tgctttagcc tcctgaatag ctgggactac aggtgcatgc caccatgcct ggctaatttt 152040
taaatttttt gtagagatgg ggtctcactg tgttccttgg gatggtcttg aacttctggg 152100
ctcaagtgat cctcccatag tgctgagatt acatgcgtga gccaccgtgc ctggcctcaa 152160
attcttgtgt caggcactgt gtattttgca gcagggaaaa tgaggttttg actcttctgc 152220
caactctcaa tcaattgact gtagctgatt ggagcgtgt gtagaggata tagaagtagc 152280
ctctgggctt agtgggacaa atgcagtgtc tgggtggtga tgccatggcc ctgaagtgtg 152340
gtcgggggtg tacatgtatg tggtagatat gttaccagac ctataatttc tcttaacata 152400
gcaatctgat tcttagtttc agaggatagg aaactcaatt ttaagtttac ctgggaaggt 152460
ggaggaaggc ttggttggtt caggctttgg aaagccaact cttgttaacc aaatacacag 152520
aagactgttt tttttgtgtg tgttttttgt tttttttttt tttgagaggg agtcttgctc 152580
tgtcccccag gctggagtgc agtggcgtga tcttggtcga ctgcaacctc cgcctccctg 152640
gtacaagcga ttctcctgcc tcagcctcct gagtagctgg gaccacaggc atgtgccacc 152700
accctggctt aattattatt attattattt tgtgttttta gtagagacag ggtttcaccg 152760
tgtagccag gatgggtctt ctctcctgac cttgtgatcc gcccgcctcg gcctcccaaa 152820
gtgctaggat tacagggtgt agccaccgag cctggctggt atggtcttta attgtaagaa 152880
aattgaagag ggaggcaagt aaacaaagat ttacagtaa taactctaatt ctgagtgaat 152940
agagaagttc ttgattatag cagaggccag gaactgtttt ataagtacta atactaattc 153000
agtaattttt acctttctag tgtggttcac tcacatgtgt ttattctata aatgtcttat 153060
tttataaatg ttgacggtta ggatctctaa ttacagggca tgaatatata tatatatatt 153120
ttttacctca tcttattgaa gattctcaga tgaagagcct gtagcctcca gtggactgac 153180
tttagtaaaa aggctttaat tgcagaacct ctgagttgac tgtaacaaat gcagtttatt 153240
cccctagact ggaaataaca aaaccaacca gtttgagttt ttgtcaaaac tcaaactcgg 153300
ttatctgaaa gaatttatta tctgtagagt ttcagtatga agaatgcagt tactttgaaa 153360
attaatgatt gtcttaaatg tctgcttggt attgtttgtt aattgcttat ttttgcctt 153420
ttgtcctatc tctccaaatc tgtcctcttg tgttactgtg tcaatattag gtcatagcca 153480
gcctccctcc ctccctccct cccttccctt cctgcctcc ctctctccc accttccct 153540
cattcccgcc ctctctctcc ctccctccct cccttccctt ccatccctcc ctccgttcc 153600
cctccctccc tccctccctc cctcctccc cctctccctc taccttcccc ctccctccc 153660
cctccctctc ccatccccct cccctccctt cccctccctt ccccttccct tcccttccct 153720

```

cctctaactg ctttctctat aatttttttc aagatatatta ggttgctagt ctcaagtata 153780
ataagggata ttgcagaata tttagatgca ttagatggat catattactc aatttttagt 153840
agaccagtta ctttgagtga ctttttgitt tgggtgttag ctcctaattc atggttgatt 153900
tgtaatctta tgcttggggg taaggggtct gctctgcatg ccctgtagca ttttgatcgc 153960
tggtgatgg cacctctgcc atccccacta ctgctggact ttgtctagga tttgggaagc 154020
ctgggtctgt ctggattcac ttggcctgtt ttctttcctc ctccttgtgc ttgtactcca 154080
tgttggaagg gacctgtatt tgatgtctag aaatgtgccc ttgtgaggaa agtacatcac 154140
agactatact agttccacaa aaggaagatc aacaaagctt ttcaaaaata acatcatctt 154200
tttaataact aaagtgttca cactgaaggg tgaatggaag aaaggagtaa gtttttggat 154260
aaataagaat tgtgggtgag caggccaaat gttaaaaatt ctcttagtgg tggtcgggag 154320
tggtggctca cgtctgtaat cccagcactt tgggaggctg aggcgggagg atcacaaggt 154380
caggagattg agaccatcct ggctaacaca gtgaaacccc gtctctacta aaaatacaaa 154440
aaattagctg ggcgagggtg cgggcgcctg tagtcccagc tacttgggag gctgaggcag 154500
gagaacggcg tgaacccggg gggcggagcc tgcagtgagc cgagatcacg ccaactgcact 154560
ccagcctggg caacagagca agactccatc tcaaaaaaaa aagaaaaatt atcttagtgg 154620
ttatactgtt gtagagtagt attgattgat gcattttatt aaccagcagc ctttatgttg 154680
ttctgctgtt tcgtactcta gtagatactt tgagagctac aaaaatgtaa acgtgtgatt 154740
cttgtcgttg atggatgacc ttacctgtca agtgaaatga gacatgtttt tgtttttggt 154800
tatttgccat ttaaattgat tttaaaatcc ttcgtactca ctccaaagtt attgttttct 154860
gcgtctggat tctaccttac tgcttctata aagttgcatc ttttcatcaa aattatatat 154920
ggtactgcta aatgggttgg tggaaatact cattgaaaag aatataatta tgacatagat 154980
catatacata gcttcacatt aagaaaaggg tattgagtat ttgaaacact tgacattgtg 155040
tttataaata tctactcatc tagtccagca ctgaagagtc atataagtac ttaatttcag 155100
aggtgaatca caagtggcat taaaaatgta tttttcttgt tacttggggc ctatacattt 155160
aatgagttta aattattcct ttggcctcaa ctctggtggg taacctaat ctaataccat 155220
ggtgaatggg tactgtgact accctgttgc taagaaacct gttatgttat caggttgcct 155280
tggcgaagta acggcttctt aggactcctt agcaccgctg ggaggttggt aatcagagct 155340
gtggaggacc ttacagaatt agtttccaag gttataacta atttttcttt aggaagagaa 155400
ataaatctaa gtctgtaaaa actgaaagaa aacaaagctt aaattatttt cagttaaate 155460
atgaccttta gttattttta aaaaagtgtg atcttgagat aaaaacctat ttttactagt 155520
atttttacta gttacaagga tctatgtctt gaatggtggc accccaaccc ccacccctct 155580
taacttagca ttccattttt gtttgcttag agtgattctt ggcagggtat ttgcaatgta 155640
tagaagagta tttgaactga gatcccgagg gagaacactg tgtgaaatta ttttagtcat 155700
ttgatatcaa ttgctcttgc tatgaaatga ttgaacattt tatttttaac aaatggtaca 155760
ctatgtagca ttttttaaaa tgcaccacac ttgatactgg gtcaataatt ctgttcaagg 155820
caggaagctg gctttcacaa gctttgtccc atggcaaaag gtttcagatg cttaaagctc 155880
cacaacacac gttaagaatc tgagaagttg tgctgctgtt aattttgtgt aacttagctc 155940
tcttccacat tgttttctct ttttatctct atgcctggag gtgcttgttt tcagcaaatt 156000
acattttgag aaactctgtt cttgactatt gtttagaggt acaatgcaga aggggtcatt 156060

ccattttgac accatttctca tttgttagcag tacagggttaa gtcacaagcc agcctgagga 156120
ataggatgag ctgttcaatt acacaggagt gggcacagtt aagaaccag gctttggaat 156180
tccagtcaga gtgcctggac ccaattttgg gtcttctgcc tcaaactttt tgaccttaaa 156240
tcagttacat aatgacacta atcctcagtt tcctcaacag taaatgagag ataaaaccct 156300
ttagatttca aagagttgtg tggattaaat gagattatat gaaatgctta gcataatttc 156360
tggcacttaa tgtgagcctt tgtaaatgta caatgttaat tattatagag gacactttct 156420
ggggagctgt gagttgtttc tttaaatctg aaagggttag gtacttggca tttgatgaag 156480
ccaccacac taaagctttt aattgctggg aagatttttc agatttttaa atttaattta 156540
tttttaaaatt taaccttaaa tgtaaaaaca tttttttaga cacagtgtct tgctctgttg 156600
cccaggctgg aattcaatgg tgtaatcata gttcattgca gcctcgaact tccaggttca 156660
agggttcctt cccacctcag cctcccaagt acctgagact acagggtgcct accaccatgc 156720
ccagctaatt ttttttttg tagggatggg ggtcttgctc tgttgccctag gctggtctca 156780
aactcttggc ctgaaggatc ctctgcctt gacctacca agtactggga ttagagtctc 156840
ccagccttta atattttata atttatttcc atatgtcttt ttccttgagt ttagagttgg 156900
acattctaag ttttagccct aactcttggg ctttctggga catcagtttt ctcatctgta 156960
aaatggagggt gggaattggc tgacatttca ggtcacattc tgtgatctga cccctgggag 157020
agcttggtga aaggttccct tctgattgta tcctgaatag aagagggagg gtctagagggt 157080
taaggacagc cctcaaagtc ttgtaatgtt aggatgagcc acacagatga tggcacctca 157140
cgtttcgctt tttcttgctc aaagaagaca gccggagctc tcagagtaag tgagttaatt 157200
aatgggcagt ctgtatttgg gttaaataata tgctttcggt tattactttt ctctttttta 157260
aagaacaatt ctgtgctggg catggtggct cacgcctgta atcccaccac tttgggaggc 157320
tgaggcggac ggatcatgag gtcaggagt ttagaccagc ctgaccaaca tagtgaaacc 157380
ctgtctttac taaaaataca aaaattagcc aggtgtggtg gcatgtgcct gtggtcccag 157440
ctactcggga ggctgaggca ggagaatcac ttgaacctgg gaggtggagg ttgcagttag 157500
ccgagatggc accactggat tctagcctgg gtgacagagt gagactctgt ctcaaaataa 157560
aataaaataa aataaagtaa aataaaataa taattattta aaatgtttga aacagcctca 157620
aaactgcaga attgttaca atacggtgca aaatacttga cagcacttgt tagctaacc 157680
caacttagtt tagagaaata atttgaatag cacagagaac atgttttttc tgaaccgtta 157740
gagagtaaat tggctctctg atgcccata accctgaata tttgttgtat ttcccataaa 157800
caaggatgtt catctgcata actacaatac aaccatcaac attaggacac ttactttgat 157860
gtctatatatt ctactgttga atcctcagac ccattgagg tttcggcggt gagccccaca 157920
aaatccttta tagcacaagg attcagttca gaattatatg tgtccttttag ttggtgtgtc 157980
tttttaattt ctttgagagt ggcacaataa tgcagtcttt ttcagaatgc tgtgaccttg 158040
ttacttgtga cagttacagg tcagctgttt tgtagaatgt cctatttcaa ttagttgata 158100
tatcctcatg attagatcca ggttatccat ctttggcagg aacatcacag aagtgcact 158160
gtgctctcat tgcattcttt cagggtgtca taatattgat ttgcctcatt actggtgatg 158220
atcactttga tcattgacta agatggtacc tgccagtctt ctccgttgta gaagtcctaa 158280
ttttcccatt gtaatgagta aatattttgt aaggtggtag ttcaaagtga tataaatatt 158340
cctttgctca tcagattgtt gatttattca ttatttgtaa tagtaccac tcatggtttt 158400

gttacaattc aatgggttat atataatata ttactatttt tttaatgctc aaaattcctt 158460
taacccatct tatgtgtgct tttaacatgt cctcttcatt ctttgagcac atcttttctg 158520
gttcaaagag atgtttcata ttcatcttgt acttttcctg ccttagtcct gaatgagcca 158580
tttctctaag aagtcctggc ttctttttta atagagaatc gtatttagaa gccaagatct 158640
gtgggggggt acatgtgcct gttagtattg cagttgtgcc tctccaaaac tcttagtgga 158700
tagagctgga gaatacttga atgtatgtat gaataactt ggacactcac cataggtaat 158760
acacatgcat aaaaacacat atttattttt acatcttact atgtagtttg atatcaagga 158820
gtttacactg atacctcaa ttctgatcca aactcaagg ggttgttcta attctttcta 158880
tatttgtaaa acttctacca ttctatgac agaaatctga cacgtgtaca tgtaaccagc 158940
ctctcagtgc atctttccct cacaccctag gctctgatac ctgatgtcag actgccatcg 159000
taggtgatgt ctctcctcctg actgttttcc acattgcata acaggccatt cttttatgtg 159060
gatactccat gttgcgctgt tcccacatct agacatcttc cttatccac tctgactcc 159120
ccatatcaag ctgacccctt aagcctggga tatctacctt ggaggtaggg aataggaaca 159180
ggaagaagaa gaagagctct tttcttttcc atttcttga taaggtctca ttctgtcacc 159240
caggctggag tgcagtgggt tgatcatggc tctctgcagc cttggactcc tgggcttaaa 159300
gtgattctct tgcctcagcc tcccagtag ctggaactac aggtgtgcac caccatgcct 159360
gggtgatatt taaatttttt ttgtagatac aggtctctac tttgttgccc aggtctgtct 159420
taaactcctg gcctcaaatg atccttctc ctcagcctcc caaagtctg ggattatagg 159480
tgtaagccac catgcttggc ccattttcat ttttaattt ccaagggaag ctgttttagaa 159540
tattttattt tattttttat ttttttttt ttgagacgga gtctcgctgt cgcccaggct 159600
ggagtgcagt ggcgcatct cggctctctg caggctccgc ctcccgggtt cagccattc 159660
tctgcctca gcctcccag tagctgggac tacaggcgcc cgccacctcg cctggctaata 159720
tttttgatatt tttagtagag acgggggttc accgtgttag ccaggatggt ctgatctcc 159780
tgacctcgtg atccgcccgc ctcggcctcc caaagtctg ggattacagg tgtgagccac 159840
cgcgcccggc tagaatattt tatttttgaa aactatttg aacttaccaa ggaaaatgtt 159900
atgtatacag ttaaactcct tcttaatgtc atcaataggt tcttggaac tgctatttta 159960
agcaaaatga tgtataatga aactaatttt accataggct aattgatata aatagaatta 160020
aattcctgtg gcatatttta ggccccaaa acatcaccaa acttctaaac aaagacccca 160080
aacatttcta atggtaaaca tggaaataaa tgtgagctat acacacattt aagaaagatt 160140
gataaaaaa aggaagacaa ttattttacc agtgagttag tgacagcagt catggtggtg 160200
gcaggttaaa ttaaggaata aatgtttgcg aagtgaataa tgtgaggaa atctcctgcc 160260
accacacagt ttacaaacaa acaataaata tgggtgggttc tctgcgcgct tttgtgtttc 160320
gtgcatttgt atggttacca tatactttac acatttctgt tttacaatac tttgtattca 160380
ttcattcatt cattcattca ttcatctctt aaccattat tccagttcag tgttgcgggg 160440
gccagagcct atcctgatat tacaaggaac agatggaacc caccctggac aggatgtcat 160500
tccatcacag ggcacactca aacacatacc cacactcact tagactggac agtttagaca 160560
caccagtga cctaattgtc acatctttca gatgtgagag gaaactggag tacctagaga 160620
aaaccacac agacatgagg agaagagaac ggggaaactc cacacagagg ccttggccag 160680
gagtcaattt tgttttctct tatcaatgtt atcatgaaat gatgttgaat gaaacgttat 160740

tcaaagacct gctgtataca gaaggtcccc aatggttaga cttgtgattt tttggcttta 160800
taatggtgca aatgtgatat gcatttggca aaaaccatat gagtaccctg gcaaacattt 160860
ctgtttttca ctttcagtac agtattcaat aaattacatg agttattcaa tactttatta 160920
taaaatagtg tttatgttag atgcgttcac ccaactgtag gctaatagtaa gtgttctgag 160980
tgtgtttaag ccaggctagg ctaagctatg atgtttggta ggtaggtgt attaaatgca 161040
attttgacaa gatatttgca acttatgctg ggtttatcag aatgtaacct ccctcttaag 161100
tggaggagca tctgtaattg tttttgtcat ttgagccgta gtttaaacia atgaatgcaa 161160
tggtatatct cctcagataa gtgacctagc ttgaaaaata aaactgtacc tgaaaactag 161220
gtaaaaatgg atcttgttgt ttgggagggg aaagagaatt tgaagcggtt tctcaaaagg 161280
gtaccagca cccgagtacc tttcttttgt ttaattttta acaaaagagc tatcttttgt 161340
gcaattgttt tcaatatctc tgccgtacac atatgtgggc agaaagctag agtttgaata 161400
acacttgta atggaaacca acttctttat ggatttgttt gaacagtggg tcagaatttt 161460
tatgcttact atcttattcc tgtttgaata cttggccagc catattctca gagctccctg 161520
ccccagccag cctctctaag ggctcctacg gtgaagttct gttagcgctt ccattggaaa 161580
cctaccagaa tggctgggtt ctggcatggg gccctctcac gaaagctgca gccccagtgg 161640
gggaagcgca ggggtggagt tttccaccct gcttctggct gctctccaga ccctggagtg 161700
tctgtgaggt tttttttcct cttttctttc tcccataaca acaaacaaac aataacacta 161760
ctacttgga atattaggga catgggatat gcgtgcgtac gtgcggtgga gtgggccttt 161820
tagttagctc cccagcagtg ttcttctgcc actgggctct tttgttcagt gtgacctcat 161880
gagaagtgg agcagtactg taagctctag aggatttccc tatcatgggc cttttatttc 161940
cctgtgggtg tctaagcaaa gcaatgggaa tctcctgggt ggtattaact atctttctag 162000
accattcttt gcacgaaatg ctgacttaat gagagtctga gtcaccctta gcaatttctc 162060
caactccaga ccatggcgtg ttacaagatg gcagctgttt agtggatatc agaatacct 162120
tcatgttttc atggcagggt taccagattt aggaaataaa tttacgggat gcccagttaa 162180
agttgaattt cagatataca gcattttttt agtgtaattg tgtcccatgc agtacttggg 162240
atatgctgg atgaaaagtt atttgctgtg ttttgaaat tcaactttat ctgggtgtgc 162300
tcttttatct ggcagctcta cttcgtgcat ttttgcata tgtaataact tggatacatg 162360
ttgtacttag aatattatgt atatatgatt agttcctaaa aagtgactgg cttcacaaat 162420
aaacccttga gtgcatgaaa ttttgagctc cttaaaaggc aactgcagtt gagctggcaa 162480
atcacatatg ccagatttcc agactgagtt gagtcggcca tcatgaggca ggaacttgaa 162540
gttacatcat ctagaatttc ccggtacct tttttctc cctctcttta atgactcttt 162600
atttgtaagt tagaaaattg ggctaagcat tccctgcaaa aaggcgtctt tcttttattc 162660
attgaaaaac acagaaatct ttagtcttaa gcaatacaga ctggtctgta tgaggttgta 162720
tttgtgcatg tagaaagaaa aagtaagaat tttataaagc cttctgcctt gctttggctt 162780
tttttcggcc agtatttcct tttgtgtatt ctacaagaag accagagaac tacacatgat 162840
agtagtaaa atccctcccc tccctgtta gatactttct gtcatactct ttgacacact 162900
tgattcaact aacaccccc tgtaagggca agtggttatt cctaattttg taagttagaa 162960
attctccaaa cggaacagtg tattggtctc tttcccaaag gatgcaagat ttgtcttctt 163020
ataaagtctt aagaatggc tcattaacca tctgttattg aatgagtaga ttcccgtgta 163080

gacccttctg ttctcagggc ggtcattcca cttccctg agtctctggt ccatgacccc 163140
tggaagagat tgcctgaaag cacattcata attttgctcc acattcatga tttggcttaa 163200
acaaaattaa gaattattac ttgagccttt ttaatagttt gctgcgggtg tggcacactt 163260
tttctgtaaa gggcaagatg gtaaataaca tgctttgcag acatacagtc tctgatgcat 163320
actcttttac aaccctttaa aaatgtgaca accattttta gcttgtgagc tgtaccaaaag 163380
ccggccatgg gctggcagta gttttcctga gtgtttgtcc ttaaaaacat attacatggg 163440
gagtctctgtg gattctgaaa tttaccatt attttcgata tatatagaag tgggaatgaa 163500
tacttagcaa taaaaatatg tgacaagctg tgggcactct aacatcctgg aggacattgt 163560
ctctctccct gcccccttc ccctgtggca cttactcata tttttaaaag gagaatgttg 163620
taattttctg ttaaaatttt ggattttgtg ttaatgctaa aaaaatgtc attctgatgg 163680
gtttcttttg tcaggatgtg aggagcaagt ggtcagatag caaattcatg cccaaaggcg 163740
ggagaaagca agacaggaca tcggtttgtc ttctctttga atttatttat ttatgacatt 163800
gaggatttgg tgaaattttg gtataacaga acatcctagc cagtttttct atctttctga 163860
gccatcaatt cttaagaaac tgcataagca ttttattttg aaaccttatg gggaaggatg 163920
ttacattcac ataagaatga aactcaatag gaggtttgcc ctttgatttg ctttatcttt 163980
tcgctgattt tctttgaaag attatgcttg gtgttcttcc agatcgcagt ggtaacaaca 164040
ggcaggctcc caaaagcacc taaggggaga gacatcccat gagaatccat catacatttc 164100
atacctttcc agctgctgct cttagtattt ggtgtaaagc cattcaggca ccccttgtct 164160
tttattacac aatgaaattg gggattttcc cgtcactttt tttcccttca gacttttaca 164220
aatgattttt gggcccgaat gtgattgtga atagacagac atagcttcta agaaagccgt 164280
tgggaccac tgaattgtga ctgtcagaca aaggcatttt gtttagaagg cttgtcccaa 164340
agtgggtgtg gagtctgaaa gaaggccgc cagcgtctcg ttctttctgc tgtgaactaa 164400
taggaaagct gatgtttgct gagtggatgg ctgtactcac tgtccaaaca gatctgtgtt 164460
tgccaactgt gaacatatg ctgcctctgt gaggcactcc atcatgcctt gaatggatcc 164520
tcttgtgttc agaattttct gactcaaagc gagggagaga gaaatatttc tttcagactt 164580
cagcattcac tgtagcatcc atagtctcat cagacctta gaaaccaagc atgcaccgga 164640
gacgcttctt aaggagagtg agaaaagagc agagaaaaag gaataaagag acagcccat 164700
tgaaatgcct ttattctgac ctttgtggc caagttttca taaataaacc aggctgcctt 164760
ggcaaataga attgtgagaa tattttttat ttctcctgag caaaatagaa ctctgagttt 164820
ccaactcatg gtccatttct gtgcatgtat acatacatgc acagacaaaa ataaaagcat 164880
agaatacatt tataatgtgt tattaaatgg gtgacagagt tttattccac ctggataatc 164940
ccttaagaaa aggctaattg atacatatga aggagttttg attactttat aaactgtctc 165000
ttagtttttag ggttacaaac ctattgtata tgaaagggtg aaaataaagt gggttttttt 165060
gttgtgttca gtttagtcac tttctataag ttgacagtaa tagtaccttc tggcaaagtc 165120
tagtattcgc tgcatgaact gcggacagag cccatggaaa agatgtggca ttccctgcaa 165180
ttaccattg ttttgtgtgt taaatttcag aaaccttgggt tgagtgggtg gaaaaacaac 165240
attgctgata atgaaactca gtgagcacat ggcatgcaca ggacacttac cattctggtc 165300
tgtgttgctt attgagtaca tgttcaacac tgaacagctt cactcggcat tgtagtggaa 165360
atggagagag acgggaagga cagaatgctt ttgtgagtgg aaaggtagat ttctgtgtag 165420

ttctctgcag cagtaaaccg ttgcctggcc ttagtcagtg agaactcagt atttatttgc 165480
ctacctgtag taaatgattt ttttggcata tataacccat aaaagtttaa aaccagaatt 165540
accatcccc gccccaggcta cagtatttac catttggttg tctgggtatt cttatccagg 165600
actaactgta ctcatggaaa aatctagttc tttaaactta ctggaaatat aacaggaata 165660
gcagggacag ttggggtagg agagggcctg gcaaccatgg ctgccattga tgtaatagta 165720
atgatctcag ctagcccagc tggaagcca accatgtgcc aggtactctt ctaagtattt 165780
tatatatgtt aactaatttc ttcctcagac aatcttgtga aattgttacc attgctttct 165840
tcattttaca ggtgaggaaa ccaaggcaca gagaaagggt tactaacatg ctaggatctt 165900
cacaactagt catttgtgga gtgtggaatt gaagttagag gaggatggcc ccagtatctg 165960
ccacaattac tacagcacta cggttggcga gggaagaaat ctgcattctc cttgtagagt 166020
tttctattta tctttccttt atttcttggg gtatgtgtat catatcatat ggttttggaa 166080
aagtgtctga aggtcatcaa aatctaagta ctaggaggt aagatcagaa agataatgca 166140
ttctgtaggt aaagaagttt gctcctcttt gtttttgtca cagaaagaag ttccacattt 166200
aattaattcc tggttattat tattataaat tggttgaatt acattgtggt ctagtagata 166260
gggctgggta atacattttg ttcagaactt aattgagagc ttgattttaa acttaaagtc 166320
aaccattatg aggtatctta gtataaaatc aggatattta tatgtagtta gatgctaata 166380
taaaaatatt caatcatatt tctttatgat gatggattga gcggggatat gtttatatgt 166440
aaagcttgga agcaacattt ttacaaccgt aggtaatag tactattgcc tagtgtaagt 166500
agcttttctc aagagactat agggatgatt gaaattggcc agtttcagat gatttttata 166560
ggagtaatgt ttattgcagc tcattaatgc catgtttaat agttactggt tatctgaaat 166620
gttgccctga gtggaaaggg ggtcatatgg ttccattgct agaggattgg acctaaaatg 166680
gttttgcgtg aataatgttg tttgtaagtt atttcttggg atcctatctc aaagaaagtg 166740
tacttgaaag gccaggcgcg gtggcttatg cctgtaatcc cagcactttg ggaggccaag 166800
gctggtggat cacctgagct caggagtttg agaccagctt ggcccacatg gcaaaacctt 166860
gtctctacta aaaatacaaa aattagctgg ggggtgggtggc gggcgctgt aatcccagct 166920
actcaggaag ctgaggcatg agaatcacgt gaatccagaa ggcggatgtt gcaaggagcc 166980
gagactgcac cattgcattc cagcctgggc aacaagagcg aaactccatc tcaaaaaaaa 167040
aaaaaaaaaa aaaaaaaaaa gtatatcttg gagactatat tttagaaagt gagttataaa 167100
aaaataaaaa taggtcacac tttattgtga tgttttatgc agtttgtata aacaccgact 167160
gactgaactt aaaatttttg cacattgtat tgaccacatg aaacctatca agatgtttta 167220
gtatatggg tttgctataa aactaaagt tttcaggtt tcttcttttg agagagagat 167280
tatgacaaaa gaatagcttg gctttctgcc ccaagaatct ttgttttggc cttttttgcc 167340
tttgttttgc ttattttgta tgtattggac ctgtttttgc ctattttgaa cctgttttgg 167400
aggggctacc aaactgccaa accaaagagc tcatcacaga agaggcaatt tcacaccag 167460
agaattggta gtcccaactt tctgaatgac acctaagatc attaccttaa tttttttatc 167520
tgctagtcag taattttcaa cagtcttttc tgcttggttt aggttttagtc tgtaaaaggg 167580
aaacaggata ttaatttgca agaaaacctg gagaaattgg aaaacttctg ttgggtatta 167640
cttttgctg atacctactc aaaattagaa acagaaatac cttatattat tagcactttc 167700
tccacaatca ttaatatata aaatacaatg ggtatcaaat aaataacaca gtttacaagg 167760


```

aaaaaagtga ccaaagcacc ctgtggatca gatttgacta cttgctgctt ttgtgaactt 167820
gtgcttcact ctgtgtttct gttctgtagg ttttgatagg ctagacttct ccagatatat 167880
taaaacatga ataatttggg aaataggctg aggttttatt gaggtttacc tgggctcagg 167940
agggaggaca ggtgtgctga ttggtccatg ggcgggccatg ggcggggcct ggaaaaagta 168000
tcattccaatt ggccaaaagg catcaaggag gttctcactc ccagtagcag tggctcacac 168060
ctgtaatccc agcactttgg gaggcctagg tgggtggatc acttgaggtc aggagttcaa 168120
aaccagcccc accaacaatg tgaaacctg tctctactaa aaatacaaaa ttagctgggc 168180
atggtggcac atgcctgtaa tcccagctac ttgggaggct gaggcaggag aatcacttga 168240
atccgagaga aggaggttgc agtgaaccga gattgcacca ctgcactccg gcctgggcaa 168300
caagagcaaaa actccacctc aaaaaataaa aaaaagataa ttcagtaaaa ttaaagggtt 168360
gaagtgtagc ttagtaaaac cttagcetta gcaatgcttt cccagtcctt tagagggaag 168420
atttgttttt aatttccttg taaatttcat tctataaagt ccatgctgga cagcagattt 168480
ggtgattaag atctgaacct ttattttttt ctttctata gctgacatta gtaagaatat 168540
aatatattgt gatatgaaca cctgggaaag aaaaaccgaa ggtgtgatga agcacaattt 168600
aaaggaatct gacattttcc cccaactcct ggggaacaat agtagtttga actttaattt 168660
actgtgcagt tagagcaatt taatagatta ggtggacatg ctgtgtactg tcagaaatgg 168720
ctttttcaaa acatgaataa taatacatat atttattttg agcccttctc atatagcctt 168780
ctcccagagg ttgagcaggc tagggggcat gagtatatcg agaacaatg gagaagaccg 168840
aatgtgtagt tttagtggac aatatggttt atttttatta tttattttta aagttgctat 168900
ataatcgttg tacatatgtg tggagtacat gtgatatttt gataacctga taccatgtgt 168960
aatgatcaaaa ttcagttact gttgagttat catcacacag gatccttcgg gtgtcacttc 169020
accagccaga aacctctggc cggcggcgcc tctgcttgag ttttgctcgt gccttctggg 169080
cttcttctgc ccacttgcc tggatcaggc agcaccaccg gccaggatcc tcccctgcca 169140
agggtgcgcc agtcacggag cggcgagggg tgtctaaatg attgagcaca gggctccggcc 169200
actgtgcaca gctaggcatt ctggctgttg cagtgggggtg ggcagctcca tgcaccagca 169260
taggtgctgg ctccgtgcaa ggctgtggct ggaccagaca taccacaagc tgtgggtacc 169320
agtgtctgga tgaggggaac acagtggcgc ctgaaagctt ggagatgcca ggaaccacag 169380
agccccaag aggggtttac agcgtgtcac agccctggct ccgggagccc tgagttctgg 169440
gctctcagta gggccacacc tcttctctcc tcattgccta cagtgcgcag tgagcggggg 169500
tgggggtggg ggtcgtgttt cagcctgttt gtgttacagc tctttcagtc atgcttgcc 169560
ctggctcctg ggctggtcca gcaccaccac tgcttctgt tgcatgaggt ggctgcctag 169620
tgctggcaga gggcgggagg gctgtagtgt tacagccct ttagctgccg ccacagctg 169680
ggcaagctgg ccaggaaaag gttacagctc ctttcgttcc tgctgtttgg tgggtctcga 169740
gtttttcttc cacatccagg aagaatgaag ttacacgggc aactggaggg tgagcaaggc 169800
cgagaggagc tttattgagc aacaggaaca gctctcagtg gagaggagac ccaaagtgg 169860
tagcacctat ccacagacag gtgatgagtc gctgagctg ggggttttta tgggctcaga 169920
agggagggca tgtgtgctga ttggtccatg ggcgggcaca ggcgggcctg gaaaaagcac 169980
catccgatta tccgaaaggc atcaaggaag ttctcactcc cagtagccga ctccaccag 170040
aactggcagc ctcgaccata ggcttcaggc cctccctggc ttaaaggtgg agtttcacca 170100

```

```

gggacctgcc ccttcctgcc taggaaactg tctgcctccc accactatca atatgccatc 170160
catggcgccc aggctgtccg gcccgagggg cacctgcagg cccgcactga actgcctca 170220
gcccccttggc ctccttccca tgctcgttgg tgcccaacgt ctggaggag tccaggcagc 170280
agggggctga catgtcagtg ctgccctgag cacacacaca tccggctggc tcgcaacagt 170340
gcccaggctc agccacaact gttttccgac tggagtgggt gccagggaca gggagaggcc 170400
agccaggggag tggaagcagg cacttctgag cctgcgggag cgcagggatg cctgggtcca 170460
gagctgcagc tgggtggctg cagctgtgcc cagggacgca ggctcccacc ctgccaactt 170520
ggtagggcac agggttccca ccgggatcac ctgttcccag ccccgccag ctccacgaag 170580
ccgcccccca ctcctccatg cagttggcat ctttgcagtg gctgctccac gtgggctacc 170640
actgctatca ttatgatatg ttttgataaa acagatcatt ggatttttct taagagttct 170700
gcatttttcc ttaattttct tttttgttt tccttttttc ttttgaaatg gggctctgttt 170760
cactcaggtt ggggtgcagt ggcaaaatca tagtctggg cccacacaat ccttccgatc 170820
cttccacttc agcctcccaa gtatgctggg actacaagtg tgtgacatca tgtctggcta 170880
atTTTTtatt tttaaaactt ttttagagat gagaatctca cttctttttt tttgccacg 170940
ctgttctcaa actcctgaca tcaagtaatc ctccctctc agactcccga gtgtctgaga 171000
ttataggtgt gagtcaccgt gcctggcaaa atctgcactt ttgtagtatt ttgttttagt 171060
taaacttttc agccaagtgc aaaaaaatga aaagatttgc acatgaatat gcaaacaggt 171120
atgactgttg agaagaataa gctaaggttt tagggaagca aatattcttt tttctggctc 171180
aagtgagaga attagctcag cttagaagtt acttgctttt tggatgtgtt acttggatgt 171240
gttactcgga tgtgttacct atacatagaa tcattaaatc attattttta tacacattct 171300
tagtgagtgt agattttgct gctgacacat ttgcaaaagt tgggattgaa aattagagtt 171360
tcttgttcaa tgctttacta ctctgctgtt ccagaaacct ttaagttaa gtaacagatt 171420
aaaatatttc atatgaagag aactttatga tttcatatga caatatacac aactgaaaa 171480
acataaaact ttaaataatt taatgattgc aaagagtata acataaaaat gactcataac 171540
ataaatgtaa aaacgtaggt ttttaagcag tgagtacagt gctgattgga atactaagga 171600
tttcaataac ctagtgtaat tcaggatgaa gaaacagaaa tcatgacctt cttcagattt 171660
gaacttggcg ggatcctgtt tgcaggctct gcctgtctct gcagtgggtt gagttcctca 171720
ttgggtccact gaccctgggt tagggaagag gttgactgga cttatttctg aatttgactg 171780
tcagtagccc aggggtataa tgatttccca caccttgac atacagaaaa tgataaaata 171840
taatgttttt agaacctgat tttgcaaagg ggcatagata aggtagattg ttagaaggac 171900
ccaaggggaa tggttggaag gcatgtcata gaaggagaag ataaagaaag cccagatgat 171960
ttttgcctgt agaagaggag ggctgatggg attcaactgc ctaagtttgt atctaaatct 172020
tgttttatgg aattgaggtt acattttgtt tgtatggctc ttaagaacag aattcagatt 172080
tctgcctttg aaaaagggga aaccttttac cagttagat tattaataaa tggaatttct 172140
ctgcattttg agatagtaaa ctctacattg aagtattctg ctacttgta gaaattttgt 172200
tcaaaacttc aagcattaaa tggggaattg gtctggatga ctgttaagat cccaagaga 172260
attccaattc tttgatctta gctgtcaatt aaagatgttt ataaatgttt tatcagctgt 172320
tctacctact tccttattct tagatgtata ctatttcata ttaaagatc accagggacc 172380
attaatcata taaataaaca gcaataattg catagactga ttcttcatag agtgcttatt 172440

```

```

atcctatatt atataaaatc ctgtgatcat tttgttggtg ccatggaagt aaaacagtgg 172500
ttgcttttatt atgactaaag ctgggggact attttttagcc aaattatagt catctttgccc 172560
agctgaagca tattcaatta aatatccatt aataggataa agtttatgga actctgttaa 172620
tgactctttt tccctcttta cttttaaaca ttgtgatgaa attaaaactt agctaattgg 172680
actcaaggta actacaaatg agatgtgctt caaggatctt gaatgagcct gtttttttct 172740
acttttctatt tatttttttac cgcgttcttt ccaagtcatt cttctgaact ggtccgtagc 172800
acatctgcat caaaaccagt gatcagggat ggcctgagga agttgggctg cttgtgggga 172860
gaagcagact ctgaaggcct ggaaatctac attttcaaaa aggcctagaa attttgacgt 172920
agcacatttg aggatgatag caggaagaat ttagaaattg tcagctaaca cctgttttct 172980
agaatctgca agcacagacc tacgtgacac cagtaccacc actaccacc agcatattac 173040
tctagaagga agcacagaaa ttatcaggtt tcttctcttt tactttgtat catgaacaat 173100
taagtaactt gcccagggcc atacagactg aatcccatat ctccactgag ccatttggtt 173160
ttgatgggga tggactgaag agaagaactt taaaaaatac tattggaaag ctgaaatgga 173220
ccagtgacca gcctctggat tcctgtgatt tgtatcagtt accgttttga atatcatgca 173280
tatgctatgg tcacagatct cttaatgtat cacaggaca gttggaaaac aattcagttg 173340
agattaattg ggtacatgta ttttctggtt gtggcttttc tgccttggtt gtagtttaca 173400
caccaatcca tgaaattatt tccttctttt ttctttttct tccatgttag gtatctgtct 173460
ggttcctccc ttctttttca aagagaggat cagctttctg ccccgatcc ttctttctcc 173520
ttatctgttc tccactgat tttagtaaca tttctgtgca gacagcctaa cagacctgac 173580
ctcagatctg tggccagaaa atttttactc aaatactttg acagtgtttt actcatctaa 173640
aagtgaatgt gatccctaga caagtatgag gccaaagggt cgtctcattg gacctcaggc 173700
catgtgagca tacgcacatg ggaacatggg gattctttta cagttaaagt catggggaag 173760
acaagtcata aaccacagtg gtttctcaaa ggcagtgata gagataaggt gatgaagaaa 173820
ctcctatctt ctcagtattc acagttttgt ctgagtaggg atgtctggaa aaggaggag 173880
tataatccta aagttttgcc ttgaagggat ttatgagttg ctcatattta tatatcatgc 173940
atatcatttg tttgtgctca tactcttgct taaccagtga tagtactata tgcaaaactc 174000
cccattttga ttagtcttg tttttagtga ttacctggta attttgccct ctccccattc 174060
ttacctatcc taatacggcc tcggtttttt agcctttcca gattagcaaa ccccaaaggc 174120
ttagtagttg ttttgaggag ctaactttta aatgtatctg ttcttggtgc tttttcagct 174180
caggataaac agcagtgaat cagttaggag accttctgg tagcctgtta ccccaaatgt 174240
agacccttga ttttgatttg tctcaggccc ctttagtagt agatgaaggg ttggtttttg 174300
aaagtgaat tgtagcttgt ttagtaaaaa ttgcttggtt ctgtggaggc aatgtgccaa 174360
aattagaagc atctatggtg ccgcgccata aagcagtctg gtgcctctca aacaataact 174420
ttgtcagttc atttttatgg ctgagaaaat agcagtctag gtgaccaact ttcccacaat 174480
tgcttggggg tgtttactga ctgcccttga tcagacgcca aacacttcag aggtaagaga 174540
gcctaacctt tttgtagttg ttgtttaccc tcagccctta gcctgccctt tgtttttcac 174600
ttacaaacaa aagagtaaaa tcaacaggct ggtctgtaag aactctcatt tactttccgg 174660
accccttctg tgtggtttag gtaaggcaga gactggaact atatacatca aactaatcat 174720
ctcacagccc attattaggt cccagctgcc ggacaactta gaggattttt attaacaatc 174780

```

aagacacttt tgtaaagtta agttaatttt tggagattgc tggtccttc cagcctgaca 174840
ctgaagtgat gatgagtga tgagcagcct tctagattgg caagaaagt gcatcaggta 174900
gataagctat gactctgttt tatggaatat ttggttcatt tttttttcca ttgagcagcc 174960
ttctagattg gcaagaaagt ggcacaggt agataaacta tgactctgtg tttatggaat 175020
atttgggttca tttttttttc catttccata atcacttttg attttcctta gtagttctag 175080
tccatacatc ctggacattt ctctcttgcc tttggatttt aagtgcata gttaaaagaa 175140
ctaagctagt aaaccacgtt aggatgttgt caataaaatg cccttacagt gttgtcaaag 175200
actttgcttt atggcaggca ctcttcaggg ggcaatggaa gagccaaccc tgagagtagt 175260
taaaagggat ctctctgtgt ttgctttgta agcctcacta aagcaacaat aattgaaatc 175320
cctgaaatat attgagtaat gatatgttgg taaagcaata catgattatt acttgtcata 175380
cagctttcag gttggtgatg tttttcatgt tctttcattt gtaacagatg aataatgtaa 175440
aacagagctt gtgaggagta caatgacatt ttgttgtctg gtttaataatt tcagcactat 175500
ttgcaaaatt gccctgccag agcatgacct aggaattgta aagtggaca caaataaaat 175560
aggaaatgtg tatttgccca tgagttcttc atggacttgt tataaaaaca cttgtttgct 175620
gtcctgtctt ttgtctcact ctctgtcccc actgggagaa gagggccttg tggccaggca 175680
aatgggatgg aagtgggggt acatggagga agagtagaca aggttttatt catctctgtt 175740
ccctttcata actcttccta agagcagaga aagctggtga gagaatgaca ggcaaccctg 175800
ttaaagact cggaggctgg gcgtggtggc tcacgcctgt tatcccagca ctttggaagg 175860
ccgaggtgag tggatcacct gaggtcaaga gtctgagacc agcctgacca acatggtgaa 175920
accctgtctc tactaaaaat acaaaaatta gcttggcatg gtggcagaca cctgtaatcc 175980
cagctactcg ggaggctgag gcaggagaat tacttaaacc caggaggcag aggttgacgt 176040
gagccgagat tgcgccactg cagtccagcc tggactcggg gccagtgcag caaataaatt 176100
ctgccccgtt cctgctgaga cctcccttag ttgctctact tgcactgact tttaatgagc 176160
aatctttctg attcttttct ctacaaaatg agtaaacttt aacatcttag tctgcatttt 176220
acctcggggc atttaaaatt taaatagcct tgttctgata agcagaatag ggggtaattt 176280
tttaccctca acaagtttgt ctagaggata ccactaggag tcatgctcac ctgttcctat 176340
tcacctctcc tgggaactcc gtcttgagtt tgttattagc tgaaatgcta atagatcctc 176400
ttcacgctgt gtgagaaagt ccgagggcgt ctcggatgcc cttcatgtgc caaagagaga 176460
aaatgctggg atggtttgct tttaaagggt ttgaaatgaa gcaactgatg ctctggtgat 176520
gcctttgttt taattttgct gttgatattt gcagggactt tacttggtta atatcagaag 176580
ccttttctca gtattattga gttgcatttg tataattctt tagggcttta atgtttacgg 176640
ggctctggtt taagtataaa taagcctatc tttggattac ctgccattcc aaacctgaca 176700
ttaaagatca aaacaaagaa agatgggatc ttagtattca tttaaataag tttaactggc 176760
tgggcacagt aactcgcacc tgtaatctct gccctttggg aggctgaggt gggaggatcg 176820
cttgaggcca ggagtgaag gccagcctga gcaacattgt gagaccacat ctctacaaaa 176880
aaatacaaaa accagctgca catgtagtgg cttgcctgta gtcccagcta ctacagctact 176940
caggctgtgg tgagaggatc gcttgacccc aggaggttga ggctgcgttg agctgtgatc 177000
atgccattgc actgcagcct ggatggcaga gcgagacct gtctcaaaat aaataaataa 177060
gtttaaatga taaggtaatc ctgaatgttg tttatttgta gcctaagtaa attatgtttc 177120

aaactggggc aaggtgataa agtttaactt gaagagcaga gtcctgagac cctgggagat 177180
tcagcttcac cgtcactctg gatgtatgga acccactggt ttttgttttt ccaaagataa 177240
tttcttggac cttttctcag aggtcttcta cctaactctt caattatttc tgttgctaga 177300
tcagactttc accaaatgct catgctgctt gagttgtctg ggctatatgc ctgactccat 177360
gctgagatac acagaaacct caggccaaaa gctgggtctc cccgtccccc acatggttct 177420
gtgcacctgt gcattactca ttccgcatgc cattctctcc ataattaaga acagaaatgc 177480
ttgttctctt caatgtcatt gtgtccttgg catcctgcac aaggtctggc agttacgttg 177540
ggttcaacaa aagtttggtt aactgaacaa agcaacaacc aagggttcta aaaactggag 177600
ttgaaggtta tattacaagc ctgtctcttg gtacctgatg tctttgacag tcttaaagct 177660
tgcatttctg tagccctgaa tttaaataca gttctttttg aaaccatgtt aggtcatcat 177720
gcctgctgtg aatggattca ccaactttct gtaccattca ttgctagtca ctgaattttg 177780
aatattcttc cccacccac tetaaggata attgttattg tccagctcca gagttccttg 177840
cctctaataa aacaattgct gctgctttat gcagtagttt gttgtttatg tatgtgttat 177900
aaaatcttct gtgtgacttt caattcctta catcttgcac aatgaatgtt gattgaattt 177960
aataaaacat aagctaacaa aagaatagca ttatgtattt acacaataag tgtatagggt 178020
ttttttttta aaaccattta agcctaaaaa caacttgata aagtagctaa ttgggtagat 178080
acctcaactt caatgaaatt gaggaaaatt gggatttaag aagcttgtct tatgtgagaa 178140
ttaaaccccg gtctttctat tcctgatgcc cttaaacag ctaagtaaca aaacaagttc 178200
aaagaggaat gtttgaaaga aaagacttga atttcaaatt ggcaagacag aattgttcac 178260
taacgctggc cttgtgattt gaaatggcca ggtgagaaga tgggtggctac cttattttaa 178320
caattctatc agcaactcag ttttggttct tggtagtgat atacgttaag attttagcag 178380
gaaaatttag tcattgagca atttgttctt ttggtcactt gtcctttta aagacaatga 178440
ctgggccaga ctagaaatc ttgaaataaa gccaatgcc gagaaacgga gaagatcgac 178500
tttcaggaaa aaaaaaaaaa aaaaaaaaaa aagggtggt ctttgattt agagctgtct 178560
gaggacatcc cgaaagctgg cacacctaac tttccaagat ttcctagaaa ttggggaagc 178620
aggacaggta attttgggag acacagagga ctagggttg ggggagtaga caactatgac 178680
aaagcagcca cccttacctt gttattttta tttcttatt ttttaataac cataattagg 178740
ttatcgtgaa gatactacat tttcaagagg aggatattct tgccaagcta taagatggaa 178800
agatacttta ggagaaagaa tgtgaagagt aaaaaaactc acttgctcat ctaagaaact 178860
gtgtaactca tttggcctct gtggtgaatg ataacactgt gtgaacctct ttgttcacat 178920
ggtatttttc ttctactggg gcagtgtgaa agttgttaag atattattca tcgaggcaca 178980
gtgctaggta ctttatatgc attacatctt ccagtctgc aacaaccctt gaaattagca 179040
gctgtcatcc cttttggtag gccagtaaag tgttgatcag agagttttaa gtaatttgcc 179100
ccaaggtcat gctagaatgt gatggagtcc aggtgcaaac tcaagcctct ttagcgcctt 179160
cctgccctgt ttctctctg gctggatgcc tttgggaaga agtagtcaca ggttgagag 179220
accagtatgc cttccatcat ttacctgag ccagaggaag tgccatcagt acctagcttc 179280
tgtgtgaaaa taacaccttg aaagaagacg agtttgccag cagcagttta aggaacaaga 179340
gatcttgctt tcaaaggaaa gtgaaattag aaaaacaaga agaacagagt tcttgtccct 179400
gttgttccat ctcttgctg ctctttcctg ggctggctcag cttgcttctg ggcctcagtc 179460

tgtttatttg taaagctgtg agacttctac tatatcctaa gggcctttga cctcctcagt 179520
tctgcaatta ctaacgtttc cacaagatag taatcttttt aaatcttgta aaatttagac 179580
agtgcctgaa atgccttctt gtgtttattt gtttatatgt ctgtatcccc atgcagttgc 179640
ttgtggatag acaatgcacc tcttggcctt tgcatagcac agtgtctaga aatagtgtcc 179700
ttacaaatat gaatgtatgt ggaatgaaaa tgtgctctca gagatttata tgcagttgct 179760
gtttttagc ttgttagtaa ccccagtttt actaccttat ctttctttgg ttatttgcac 179820
aatttttcaa ttcttttttt gttaagggtga aatgcataaa acataaaatt aactcattaa 179880
gtaaatacac ctattcacaa tgttatgcaa ccaactacctc tgtttccaaa acgtttttca 179940
tcaccccaaaa aagctgtacc cattgagcgg atgctcctca gtcctgcaaa ccttcacccc 180000
accctcctgc ctcagccttt ggcaaccacc aatctgagtt ctgtttctgt agatttattt 180060
attctgaata tttcgtgtaa gtggaatcac acaatatggg tgatcttttg ggtctgatcc 180120
taatgctttc aagctttatc agcattgtag cttgtattag tgcttcattc ctttttatgg 180180
tgtagtagta ttctatggtt tgtacacatt ttatccatcc ttctcctgat ggacatttca 180240
gctctttcta tcttttgagt attgtgaaca tgaacacatg tacaggctgc tgtgaacatg 180300
cctgtagatg tgtttgttta tgtgtttgca attctcttgg atatattact ttcaatggca 180360
aaaaacacag ttacttttgc accaacctaa tacaagtaaa agtgggaattg gtgggtcata 180420
aggtaatttt acatttaact ttgaggaagt ggtacagttt tccacagttt ctgtttactt 180480
cctaccagca gtgtacaagt ttccaatttc tccacaactt tgtcaacact tgttattttc 180540
tgtgtgtgtg tgtgtgtgtc ttttaatagc catcctagtg tgtgtgaagt ggtatctcat 180600
catggttttg atttgtattt tcctcatgac tgatgatgtt gagcatcttc ttatgtgtgt 180660
gcatgtgttt gtgtgttggc tatttacata ttatctttgg agaaatgtct attcaattcc 180720
tttagccatt tttaaagtagg gttgtttgtc tttttgttga gttgtgagag ttcttcatat 180780
attctggata caagtcctt atcaaatatg atttgtaaat atttttccca ttctatagga 180840
tgtgttttca ttttcctagt tatgtctttt gatgcacaaa agtttctaatt tttgatgaag 180900
ttcattttat ctgtcttttg ttgcttgtag ttttgggtgc tatagatctg ttgccaaatg 180960
cagtgatcatg aagatttact tctgttttct tctaagagtt ttattttttt taagcttcta 181020
taagtaggtc tatgatccat tttgagttga tttttgtata tgatatgaga taggggtcca 181080
agttcattct ttttgtctat ttggagtccc tggaattttg ataggattac attgactcta 181140
gatcactttg agtattattg ctagcttaat aataaatctt ccatggctgg gtgtgggtggc 181200
tcatgcctgt aatcccagta ctttggaggc cgaggaatat cacttgagcc ccaggagttt 181260
gagatcagcc tgggcaatat agtgagactc tggctctatt aaaaaaaaaat aaataaatct 181320
tctttttcat gctactattt agcagtgttt ttagtttca gtatatagac cattcactcc 181380
attgattaaa tttatcacca ggtattttat tcttttggat gctgttatga ttggaattgt 181440
tttcttaatt ttctgattgt tcattcctgg tgtgtagaaa cacaattggc tttttttgtg 181500
cagatattat acctgcagg tttactgaat tagtgtgcta gctctagtaa ttttttttgt 181560
gggatctttg agattttcta tacgttggga tatgtcatat gtgagtagat aagttttact 181620
tcttccaatt tggatgcctt tctttttctt gcctaattgt tctggctaga acttcagta 181680
caatgttgaa tctcagtgat gaaagtggac atccttgtct agttcctgat gttggtggaa 181740
agtctggttc ttatagtctt ctgtctcatg aagtcagagc ttatcaaagc atggtcccta 181800

gacagcagca tccataccac ctgggacctt gttagaaata ctcattcttg gaggttcctt 181860
 ctgaactttc tgattctgac actgtgcgaa gtggggccta gcaatttgta ttttaagaaa 181920
 cgctctagat gatgtggatg cacactgaag ttgaagaacc actgcagcag agttcgaatt 181980
 tcttttaaagt tagcatctgt gctttatittt ctttgtcttc cttttagttc ctttgtggga 182040
 ttaatcagtg ttgaataatt taaaaaaaaa aaagaatgtc aaggctaacc aaagtgccta 182100
 cattatctct tagcttgtgt aagagtcttg agtcaccatg aatgattgca gattcatcat 182160
 tagacattta tgagattcat cagaagacct cacattttgt atgcagtctt agaccattg 182220
 caaacagctt aaatgtactt gtatttagac catttgttct gataattact ttcaccatta 182280
 ttatctgttt acctactagc tgtggcctta tggtacttc tgccagcaag aatttctgtt 182340
 cctcagctat ttaaaaagac tgaagggtca cttttatagg ataaattaga ttttatcaca 182400
 tcattatttc atctttgcct tattttcatc ttgctatgtt gtgatgtcaa ctcttttaca 182460
 tcctttttga gcaagatgat atttaaatac attaggaaaa aatgtgatct attgcagcta 182520
 atggctattg ttgaaaaata gccgtttaga cacacaagta ccagtttata gacaagcaca 182580
 ataattctat gaattcatta tcagattata gacaagcaca tgaatactca gatgataaaa 182640
 ataccattta aaagtgcctg aaattatagt ataattgatt agtttatagc tgatcttttt 182700
 ctaagacttg tttaaatgat gatttgtacc ctggattccc agtttccacc atttcagact 182760
 tccaaacttt atttgaatc cacctaatac gtctggttct gtctgctccc agaatgggtg 182820
 aatgttgtga agatagcatc tgagatgtgt gagctctagg tcagcagttc ccaacctttt 182880
 tggcaccagg gaccgttttt gtggaagaca atttttccac ggattggggg tgaggggggc 182940
 tgtttcagaa tgaaactgtt ccacctcaga tcacagga ttagtttagat tctcataagg 183000
 agcacacagc ctagatccct cttcacgata gggttcgctg ctgattagga atctaagcc 183060
 gctgccgatc tgacaggagg cagagctcag gcagtaatgc tcgcttgccc actgttcatc 183120
 tcctgctgtg cagcccatth cctaactggc cacaaccaa tagtggtccg tggcctgggg 183180
 attgggcgcc cctgctcttg gggatccctg gtagcaggga agaaacagag gatgaggcag 183240
 aatgatcttg cagccttggg ggaggctcag gagctctcca agagcttgtg tggctcctaag 183300
 aatacaatgt tgctggtctt tccttttgtc tctttgatgt gtgaatactg tcatacaatc 183360
 attgcattaa ttaccattga ttgaataata aagcggtctt ccaacctttc tggttcaagg 183420
 ttttaagtaa tgaaaattca attcattaac aattgctagc agacttttag gaactttacg 183480
 aagagaaaatt agtgttttaa ttagggaaag attacaataa tattgggcat tctcaaacac 183540
 agttcagcag agatagtaaa ctcacagatt gggaaataaa tgtttaggaa gacaataact 183600
 tcttttcgta ccactatggt gaatgagatt ttattttgct agctttttaa ctccaaattg 183660
 cctatagatg caatggttta tttcagaaag gagaggaact tggggttcta aggcaagggtg 183720
 gagttttgga aactattagt gcatatthttt aaatgtcctt tgaaatagtt ttgatgacag 183780
 tgacaaaagg gggaacaagc atgttaaagt catttggcta ctcttgaaat caagactgtg 183840
 aagaaaacct tttctagctg taaatcacat gcttgtccta cattctttaa agcattttac 183900
 acaaatgact ttaacagttt taggggtcat gcctgggggt aagagactat ttgcatggta 183960
 tacgttttgg tgattaaaaa gcaatacttt attgagatgg tagcacctct gttcacactc 184020
 tgtactgtga aacattttat ttttacctaa tgaggaagga ttgttccta agtcaatgtt 184080
 gtaccaagtg tatacttgtt gattttatgt tgcatgggtg tggaatatta aaaagcttta 184140

ctacttgtaa tagtaacaaa aaaaaattta aaaagcaacc aaaactatct ataaaattat 184200
aaaaagcatt gtaaagaata atgataacta gtaacatttt gatgagtgat tattgtgccca 184260
tgcactgctc taagcgcttt tgcgtgtaat gaatttcac tttaaacctg accatatgaa 184320
gtaagaattg ttattctcac ttatgactat taggaagtaa ggttcagaaa ggctaagtga 184380
attgttcaag gtcacgcaac cagtgtgaat agtgagctgg ggaataaaaac caggcagatc 184440
acactcttaa catctgctcc attgagctgt gtacatcagc ccttgaattt cacagatact 184500
gctcaggatg gggcagacat cattgtttat gatttatttt taatgagtca attcaaatac 184560
aaatatattaag taaatacaca actctctcgt tggctgtgtc aaaaatgctg aggctgacaa 184620
gaaaaatgga tttgaaaacc aaagccttca gcgattgggt gatgtattcg tttaaattat 184680
acttaagaat taaatgggggt catgcaatga tcgattttta tgccattctc ttcttttgct 184740
ttaaattatt gccaatgtgt tagcatgtga gagactgctg tgtttacttt ttacagttac 184800
agagatgacc agatagttga gtgatttggt atattatcca tgaatttgga ttgaacggtt 184860
ggcatttgga atgttagata aatagtatac aaattttctt ccttgcctct gtttttttct 184920
ctatttcaca gacttggtca tatgtccacc agtgcctctg tccctttccc cctgctgagt 184980
cctctcctgt gaagtgggtca taacgtgggt tgtactgtga agtgaaggat gcattgtgtg 185040
cacgtttaaa tgcagcactg gatggcagga tctgcctttt accaaataaa gtgttgattt 185100
tctcttggtt tttgttccag ctgagcaatt ttcatggccg acagcacacac atacattagg 185160
ataaagcaaa taaacaatgc aaggcacttg gagccaggaa gtcgcatctc agactagaaa 185220
cacatagttt tctattgaca tttgggaggt gggctgctaa ataggcgagc cagccaccaa 185280
atagaaaacc agtggccatg aggttcttgc acttctaggg aagccattta tttaatcggt 185340
agatctttga aagggtgtctg aagttgattt tgatgtaaca acagccagtt tctttgtaat 185400
taaataattaa ctcaaaacta tgtcttgggt aactgttaac ctttgccatt tgttgtttgc 185460
cttagacatg taattaacat tcattgaatt taatttggtt ttgttcacgt cttttattaa 185520
ctcatacaca attactgtc ttctgttttt aaaaactttt ttgggaagac agggctcttgc 185580
tctgtgcgca ggctggagta tgggtggctt atcttgactc actgcagcct cgacctcctg 185640
ggctcaagcc atcctccac ctgagcctc caagtagcta ggaccacagg cgcgccacc 185700
catgcctagc taatttttta tttttgtag agatgggatc tcgctatgtt gccaggctg 185760
gtctcaaact cctgggctca agtgagccac agtgctgagc cttgtcttct ggtttgttga 185820
agcagtaagt cagacaatat ttgccacaat aatgtctgtc aattgtttgt ggctggccat 185880
aaaaactcca gcatcacatt catctgaagg aactgctaa tgaaggccac tcattttgct 185940
gttgtcatcc accttattgt atctcaggac atccagctta atctttttct attatgttta 186000
ttcttcttgg gagggtatg actacttcta tgaagtccca acacaagatg aagagcgac 186060
tccttttgaa tgttagtta gagtatgtt atccttcagt tgcttgccag caaagatcag 186120
tctctgttga tcaggagaaa ttcttctttt attctggatc ttggcctttg gattttctgt 186180
tgtgtccaag ggttcaacct tgagagtgggt gctcttctg taaggacttt tatgaaaatc 186240
tgctgttgc ttgtggttcc atcccagatg gtggatcaga aaactgaatt tcctattttg 186300
aaacaaattt cttgttaatt taatacttta ctttgaaata atccatgtaa atttggcata 186360
catattttta atagttcctt attttaaaat atgatctaga cctggcacgg tggctcacag 186420
ctgtaatccc agcactttgg gaggccaagg caggcgggtc ttgaggtcag gaggttcaaga 186480

ccagcctggc caacacagtg aaacccgtct ctactaaaaa tacaaaaatt agctgggcgt 186540
 ggtggcgggc acctgtaatt ccagctactc ggggggctga ggcaggataa tcgcttgaac 186600
 ctgggaggca gaggttgacg tgagccgaga tcgcgccatt atactccagc cttggtgaca 186660
 agtgcgaaac tctgtctcaa aaaaaaaaaa aaaaaatgta ttctttcccc ctgccttatt 186720
 cagttggttt ggaataattt aaggatttct tctatttcaa attatggcat attacagtaa 186780
 tttattaaaa ataattctaac tgaaaatcat aaatgcaaag tctataggag ctttctaaac 186840
 cagaataaaa aataatttta taattgattt gtttaaatat tgattaatta tgcattcttt 186900
 taaaggccaa ataaaaagaa agaaactttt tgccccactc tgttacacta ctactaactg 186960
 agcaatcttg gtttatggaa cttgaggttt tgggaatcat taaatattta taaagatact 187020
 tatagttttg ggttttttgt ttgttttctt tgagttgtat agctggagaa ttctttttca 187080
 ttcatggttt caggttttagc ttttaaggca tatataccaa cttttgaaga gcaaattgtc 187140
 aaagtcattha attatcttca gtttggatag tacattgaaa acattaatta ttttgaataa 187200
 tgtatgtttc ttcagctatt aacatctgac tcgtctgttt taggacctgc tgaagttccc 187260
 atgatgtcac ccaatggatc cattcctccc attcatgtgc ctccaggtta tatctcacag 187320
 gtaatccatt tgatggactt ctctactcac tatggacact gtcgttgctc caacagaata 187380
 tatgttgagg cttcaaagcc atattccagg agttaatttg ggtaccgtag tgctaggttt 187440
 gccatcattt tgtggcacca catggcgttt cttgtgtctt gccacttgac gtaccagaga 187500
 accagagaaa aggagacaca gaaggcctac tagactgtcc tctgccaagt ggggttttta 187560
 tatttgattg tttggttggt atttctttat ggagtctcct gcttcagaca tttccttcca 187620
 cctgtaatac aactttctgg aagaaaattc atagatgtag ttagttaaca tattaaagga 187680
 gacatagctc acataaacag ggcctacctt ctgttacaga aggaaaaaaa tggagttcaa 187740
 ttgctccaca atgtggcaaa agctaggctt ggtgagttat tgagtatgat gtgagaactt 187800
 ggctgtttgc acttaaatth ctctgagctt tggttttcta agtaaaatga tggtaatagc 187860
 aatctcagag atctgtggga agggtagaaa agctttaaag gatgaagtta tgttcctgta 187920
 cgtgaataaa gcataaaatg ttctgcatgg ctggaacatt gtggacatct gtatatactt 187980
 tagtttttgt cctagcctca gcacaatatg caaatcttct gtttctgcat agctaccttt 188040
 ccaaatacct aacaaactgt ttttctgtct ttctgccttt tttgttcttc ctacttacca 188100
 taaaaggaaa aatatttacc attttactat ccagagatga taatcactct gctaactatg 188160
 ttttgattat atccttccag atggattttt cttttcteta ctctttctct gtctctcagc 188220
 ctctgctttt aaagtggttt aaaatatgta attttcagtt tttaatgatt ctgctagggc 188280
 gaaaaatttg cagctacata ggaaagtgtc tgaagcggag gcaggaatca aagattttatc 188340
 cttctctgat ataaaaactt acccattttt tcaagtgtaa ggcataattgc agccactata 188400
 atttcattht tttccatcct tttttttatg tgagccaatt ggactttatt tatttcttac 188460
 tgagttactt acttacttac ttacttacat agccagattg ctggccagtt ttctgtctgt 188520
 tgcaaataaa tgacttactt tacacaagtc tttgtaagta agaactactg gagggagaaa 188580
 ggggtgtaga acaggctctt ccagcaggga caccagatga tggatcacat tcacatcagc 188640
 cgtcagttaa cagaaaagaa caaggaatgt agaattccat tatgtctcct gctcatgtat 188700
 tttgaggaag catttcattc cattgaatag agtacagttc tcaccattgt gacgcaaaaa 188760
 taacacctcc ttttatgcta aaggtccatt taagaaatac cagttaaaaa ttgaacattt 188820

ctaacggaga gaagcttcag tgtgcttttt cttactagta ttattgctgt gattacatta 188880
 aatgcaaaaa tatttattgc atgtactagg aaaagtggag aatttttgac ttggatatag 188940
 ttcggattct ggaaaacttc ttagaaaaat ccaaatagag taaaagtaga gctgtacact 189000
 cgcttgatg aaactgatga tggaagcatg ttgatgctct ttcccggctg acaggtatgg 189060
 cagaatatgc tagacaatat tggaagaata gttaaaatgg aataatttga attgaaaaag 189120
 ggaaagaagc agtctgtaag gcatgtgaat gactaacttc atttcaattg ggctccttga 189180
 ccagaagatg ggtgcaaagt taaatgacct tccgtgatag tattatgtct tttatgacac 189240
 gttacagtag agtatctgaa aaagattgtt aatatgaaga aaatagaatt gagaagccaa 189300
 caggatgtgt acacaacatc ttctttaacg ctggcagtag acacacttca atgaaatgag 189360
 gaaggccgaa ccaaataata aatgtcttag ttgtcttggt atcaccaaga gataggagca 189420
 agatacattg ttgtcatgca gttgtagaaa gaaagaaaca cacacacaca cacacacaca 189480
 cacacacaca cacacacaca cacacacaca atctctgca gcaggctgga catatgtgag 189540
 aagtgtcag tactaatctg tccctctgct agttagtct gtacagttat cccacagtc 189600
 ctcttcctaa agtagacatt actttcttgt tcaggcttag agttggttgc cttegcattg 189660
 agttaagtt ctgtagcatg gtgtataata tccataacac tcaacctgc ttacctctca 189720
 agaggcacct ttacctgtca cccacagtc tatgtgttaa atttctgttc cctagatacc 189780
 ttgggcctct ttctaaatac acactttcat gtccattatt tccccctgtc tggaatactc 189840
 tagagccttt cattgacaat tcacttggtc tttttggtgc cctcctcaa tgtgaccctt 189900
 ttagaacctt catcacagaa atagttgttc tgttttttca gcatctgtga ttctttccct 189960
 cctgtcata gaataaaatg tgtatttata gtcatcacca agaactcata ttgcctcatg 190020
 gggattgtat ctgagcatct agaatactgc gtggcacaaa gtaggtactt gctaaatgtt 190080
 tctaaatata aatgattgtc caagcttaag taagtacagg agagattcat atatattctt 190140
 aaatgatttg catgtttaaa gagaataata taatgctcaa tagatggaaa ataacaatga 190200
 gactgatcta tacctgcaa gaatgaaatg ttctgaatgt gtatttaaaa gagagaggaa 190260
 caccaagaca gttcactgga gaaaagaata atcttttcaa taaatggtgc tggaaaagct 190320
 ggatatccac atgcaaaaag agtgaagttg aaccactacc tcacatcata tgcaaaaatt 190380
 aactcaaaat ggactataaa cataaatcta ggaactaaaa ctataaaact tgagatacaa 190440
 aattttataa ccttgatta ggtaatggat ttgtatatgt aacaccgaaa gcatgagcaa 190500
 caagagaaaa aaatagataa atttgacttt aaacaaatga aaaatttttg tgcctcaaag 190560
 gacaccatta aaaagtggaa agaggcctgg gaccgtggct cacgcctgta atcccaacac 190620
 tttgggaggc cgaggcaggt ggatcatttg aggtctgaag ttcgagacca gcctgaccaa 190680
 catgatgaaa ccttatcttt actaaaaata caaaaaaaa aaaaaaatta gccaaagtgtg 190740
 gtggcacatg cccgtagtcc cagctactca ggaggctgag gcagggaat cacttgaacc 190800
 caggaggcgg aggttgagat gaactgagat cgtgccactg cactccagcc tgggtgacag 190860
 agtgagactc tgtctcaaaa aaaaaaaaaag aacaacaaca aaaaaatta aaagaaaatt 190920
 cacaaaatgg gagaaaatat gtacaaacaa tatgtttcag aaaggacttg aatctggaac 190980
 gtataaaaaa cttacaagtc aagaataaaa agaaatttaa aaatgggcaa aggacctgaa 191040
 tagacatttc tctaaagaag atatacaaat ggccagttag agcatgaaaa gatgctcaat 191100
 atcattagcc atcagagaaa tgtaaatcaa aaccacactg caatacctta atgtgctagg 191160

atttctatag tcaaaaagac agtaacaagt attggcaagg ttgtaggaaa agtggaaatac 191220
 actgtatgtg ttaatgtaaa atagtacatc tgctttggaa aacaatctgg cagttcttca 191280
 gatggttgaa tagggagttg catatgaccc aacaattgca cccctaggta tatacctgag 191340
 aaatgaaaac atatgaccac acaaacactt gtacaggaat gttcatagga gcattattca 191400
 taatagcccc aaagtggaaa caacccaaat gcccatcaac ttatgaatag gtaaatagtaa 191460
 tataatatct tcacacaatg gactattatt cagccatagt gaggaataaa gaactgatac 191520
 atgctaaact atggataaac cttgaaaaca gtatgctaag tgaaagaagc cagatataaa 191580
 agccacatat tgtatcattc cacttatata aaatgtctac aataggcaaa ttcattggaga 191640
 ctgaaataaa tcaatgggtg ccaggagttg gggggaagga gttaatgggg tatgctgttt 191700
 ctttgcgag acgaaaatgt tctggaagta gatagtggta gtggttactt aactgtgaca 191760
 ctaaaaccta ctaaattgga cactgtgacc ggatgaattt tatgtttatat aaactaaatc 191820
 tcaataaagc tagtacaaaa gaaggggcaa ggggaagaca gtgacacgac ccagttatga 191880
 attgggaaac aatggggcag ctgggaaaat ggccccactt tggagttatt ggtgggtggg 191940
 atggtgatgg taactactat gaatgttgtg cactgtgcta aatggtttat ttttatgtct 192000
 agttttcact gtctgtctt tacatatgag gatgctgacg ccccggttg aaccaggatt 192060
 gcagcccatg catctctgat tacactgacc tctttcccat tatgatacaa tctcacagtc 192120
 cgtggcagag cctgtctctg atgattttta ttgctttctg gcagtgtgag tgtgggtgtg 192180
 tgttgtgcct acttatgcat ctccatttct aaaacaccaa ctgcttgtgc attgtatggt 192240
 ctttatttac cgttttttt ttttttttt tgagatggag tcttgctctg acgccaggc 192300
 tgggtgtcag tggcatgatc ttggctcact gcaacctctg cctcctgggt tcaagcaatt 192360
 ctctgcctc agcctcccaa ggaggtggga ttacagcgcg gcacccat gcctggctaa 192420
 tttttatatt tttagcggag atggggtttc ataattgttg tcaggctgggt ctcaaactcc 192480
 tgacttcaag tgattcacct gcctcagcct cccaaagtgc tgggattaca ggtgtgagcc 192540
 accacaccct gccagtatgg tctttaattg taagaaaatt gaagaggag gcaagtaaat 192600
 caagatttta tggtaataac tctaattctga ttgaatagag aagttcttga ttatagcaga 192660
 tttgttgtat aattaatatg ccgaaagtcc tttaaagata aattaataaa attggtcaaa 192720
 tctgacaaaa tacaaatgtc agtaataagc agataataaa ctctgaagt ttaacagaca 192780
 gctgtggagg tgcaatcaac agcacgagct ttgttttctt aggttgagaa gggctgaatt 192840
 ggtggacctt acagataact gtggacttag ggtgcaaaaa cagtggaaac ctgtcatttc 192900
 agcttggtgg tttctctgat atagtaggtt gggggatgtg gtgtgttttg tgccttattt 192960
 tttagtggga tgagaggtag agggattctt ttcaacttga gagaaaatat agaccttttt 193020
 ttaaaactatg agaaagtgga tttaggttag tgggaattta atcttatcac agtcatcatc 193080
 tccattatgt aaaagcactt gtgagtgtga ttagagttag aactgaagga gaacatggac 193140
 gttacctgga gaggccttc ttcagattcc atcttggtc ctttctgtgt aactttgata 193200
 aattatttca ccacatatgt gaacacctac ttgacgtgg agaggtaga attaggagaa 193260
 atgttatgtg aggtgtggca ctcagtaagt agtagctact acaatgaaaa agactgttac 193320
 aacagttcca atggaagttt ggcagagctt gccctcctaa atacatattg aaatcacatg 193380
 gtgtgaagga aaattttcct tccattgtat actggccatg gctctctgtt ttttaacctc 193440
 accattaact ttctgaataa tttatatgta aaaatttctt aagcagatgc tttgagtttt 193500

atTTTccatg cttccgtagt aatttatgat acatttgctc aaatgttata gggaaaactt 193560
catattgacc caaggattta aaaagcatat gaagagaaaa agtgaaacct ccaagttaat 193620
gttctatcat ttgggaaacc actcttcttt ttccagatta actgttgtaa tcccaaaagt 193680
tagtagtcaa aataaatatt tttgttgtag gagcagaaac aacaaaaata ccgcattgga 193740
ttatTTTggg gattaattaa tgggtcagta cctgttgaaa ttatatatat ttcatTTccc 193800
ttagccaggg aaagacaaga aatgtattga aaaatatatt tgaatTTtg tttggttggt 193860
catttgccaa tgatgagtgg agagctggcc agaaagcaga cacctctgtg gagaaacagt 193920
ggggcctgtt aggtggaagc tgtgcaatac tttccccca tttcgcttag ccaagccagc 193980
tgagctatag acattagcct caactgcttc ctttggttaa ttacagctgg ggattaaacc 194040
actgctttgt ttcaccttca acgttgtaga aatgataaca gaaaggcaca tgggggactg 194100
ccctatgccc tgagaaactg agattcagac ccatttggtg gccaataagg agaattggat 194160
tctctttcaa cactcttggt cttcagagg aactgatttc tctataggaa gttagggaat 194220
gtttccatag tgtacattgt gtgcatgggg gttggtattg tgttccatgg aaaacagcat 194280
agtacttaga tatttcgttt cagttatcaa tggatttgaa gcaatTTtat tttttatctt 194340
gtggcttatt ttgtccaagg agcaattaca gacagggttg gcaatgctaa attaaagaaa 194400
tgtaccaagg acatccccct ccctcaaagt attgtgcagt ttcgtctttc tgagccttct 194460
ccctgttctg catTTtctct ttgatttctt tcctttgttt ctgtgatccc ggcacgtga 194520
cataatagaa catgggatta gtgggaggaa acgagggcc aagcgaggct ctacatccaa 194580
ctctctgtgt gatTTtagga atattaagt atttatttg gtgtgtcact tgtttacttg 194640
atcattgtct gtcttccttt tagcatttaa gtccacaaag gcagggacct tgtgtgtcct 194700
gttcagtcct gttcactact tgatctctag ttccttgaaa ggtaccagc acataatagg 194760
catttatcaa aatttggtc tctggctgga gtgattTTta tctcatggag ggaagcggag 194820
agaggaaagt gtTtcaggat ctctgggggt cttttctaatt ctaaaattag attattctcc 194880
tctgttcata ttattcctta acagggtatc aaatgagact atacgtaagt ttccaaaagc 194940
agtcattacc aaagcagtgt ggcacactta ttgacattta gcattttatt gactagaatg 195000
ctagttttca cctctataca aaaatgataa ttgattttca tagtaggatt gacacagtat 195060
cacatccaga aatgacttcg gaatcattag tgtaaattt gccctttcta ttacattTTta 195120
tttaattgca caattattat aatctatctt tctaaactag taagtcatat ttgtcatatg 195180
taataacttt tttaagaaaa atacTTTTt ctgacctgtt gggtagcaaa actTTtacc 195240
ggttagatga attttatatt tctacacatt ctttgaaacc cattaggttc acaaaattag 195300
aattatataa tatggttatt ttaatctgtg ataggtgtta cctgaatatc ttcagaatgg 195360
gttcttaatt ctttattgta ccaaggaacc cactgacaga ctggggaagc cttttttaaa 195420
ggaaaatata aaattcatag gtacaaagga gaccagTTTT ttcaaaactg gtcaaatttt 195480
tttaaaaggT gatacggtaa gttttgtgct ggtttatttg cacatcaata acatctagca 195540
tcagatctag taactacaat aattttgaag ttgtgattat tataaagatt aatatttcta 195600
taacactgta atatgacatg gaaatgtcac atTTtgtag taaccaagtc aaaggtactg 195660
ctaatactac tatgattTgc tgcctacatt tataaatcag ggaaatacaa aatttcagtt 195720
ggatgttagt gaataataaa gatgtaattt ctaactgaga tcatgggtccc ctgaattctg 195780
ttcatcttat tttgggggga ttaggtctg tgtacctgt taaggctctt gccccttttg 195840

gtgagtaata gatatgtttga aacttagaac catagctctg ttactgggaa ggggccagac 195900
tgattttcttg atacctcatg tctaattctca taatctgagt gggatagtag agtagtagaa 195960
agagcagggg tcagagtatt ccaaaccatgg gctctaccct gtacagctac aagttgagta 196020
accatgaaaa atatttctaac ttcagacttt gccttcattt ctggaaaggt atagctgtat 196080
ccttccctgc agagattgtc tgggctgtct cacagggtgtg aaagtcttga atggtaacat 196140
gttctgttta aatgtaagga attatattat gttgatgaat atgccagttg cctgttgggt 196200
taagtctgga agaccctgtt ctgtgtattg gcatcactgg aataatctat ctgtgtttcc 196260
atggacctga gtgtgcctga gaagctgggc tgaaaagatg tgactggcct tcccttctgt 196320
gatgggtaat ggacaggtag tgcagatgcc cactgctgat agctttattc acatctcaga 196380
agcagctcaa ctgggcacaa ataaagccat caaatgtcta cttactgttt gtcacctaac 196440
agaaaagcctg tcccctaaaa tagcatttct gtttaattctg aaataattat ttgatccatt 196500
ttagtatcga ttgaaactct tgggatggaa cttttttcac ttgtccagtg ttcttatgtg 196560
ccacacattt gtttgcagga ttagatttga tttttgattt ttgatttttg aatttggttc 196620
tttttggtat ttaggtcagt aatatacaat caagtgtgaa agaagtggag tggatatttc 196680
agtgaagata tctgggtatg aatcttgtca cccgttttagc ccaccttagg ttaatttact 196740
taatcatagc tgaagattcc tcagctagaa tttaggactg tgatgctgct tatgttagat 196800
cttctgagtt ttatgcaagt caaggtctgt gccaaagtgt ttataaacta ttaagtata 196860
tacaaattgt aggagttgct gttgtcactt cgattcttat atattaagtt aatcaattgc 196920
tgttttgctt tcagcatcag tccccagtg tgtgtttttt tggacccta ctttgagatg 196980
aggcctcgtg gttctctgca gtatctggag aagcttagcc ctctaaccag ggaggggttc 197040
ctctttgccc atgggattct ctatctgggg acaactctgg gctatagtaa agtgagctg 197100
tagctagcta actgagggtc catcctgggg tctccagttc ataagatgtg tctcttgacc 197160
ttgctggact tccttcttaa tttggaaagt ctttattaca taattcactg aagtagttgg 197220
atcagagagg taccacagag atctgtattt gtttccattc tcctgtccaa ccctcagggg 197280
ttactgtcat tggacagtag cacctggaaa gagctaggtg ttctggtaaa gtactcacag 197340
ttgatttcat ttatatatga cttagctgtg ctctttgccc agatttaaga cttaaataag 197400
tgtgaataga agcttggctt tatttctgag tgtataaaag tgttggcatg tacaaagcca 197460
gtggaaggat tgccgttttt gagagtgtct tcttatactg atcacctctg aaataaagcc 197520
tgtcggttaag attcatgccc agaaatgctg aagacaagca ccagtacctt cagtaccttc 197580
agctgtgatt ctctgaaca gcaacacttg atttgttaac tggagctaac ctttctcccc 197640
tcagtctgta ccttacctat tgctgcagt tgggtgtgtg gttaaaaatt aagcaccagc 197700
tgggcagtg gtgccttaca ggccggagga ttgcttgagc ccaggagtat tgggctgtat 197760
cacactatgc tgacagggtg gtcgcactaa gttcagcatt aatggggtga cctcctgaga 197820
gctggggacc accaggttgc ctaaggagg gtgaattggc ccaggtcaga aatgtagcag 197880
gtcaaaaactc ctatgctgat cagtactggg aacatgccc tgaatagcca tcacactcca 197940
gcctgggcaa cacagtgaga ccctatctct taaaaagaa aaataaagca ccaatgggat 198000
gggaaatttc agatttctag acataaatga gaggctcat aaaaactctg gggacttttt 198060
gttcatgaat taactgatta gcgaaaacct tcattttgat cacctataaa acagacaaaa 198120
ttaggtgttt agacttaatc actggcaaga actgtttgag acagacaatt gtagttttca 198180

aggaacttct tctttttcct gattcagaag aggatatctg ttatcaagct gtaagtactc 198240
 tgcaggataa tctttttttg ttattattta aagggtcttt agaaacatca ccagtcactt 198300
 atttttcctt ttgaagacaa caataatcat gttctgtggc aaaaggagct ggtccgaaac 198360
 ctagaatgat aatgaaagt ttgcaaatac aaatattatt tcatcactat tagccattta 198420
 cagatgtgaa gagaaatgag cttgaaaagt agtttgatgt tttcaaccac acttttaatc 198480
 tttagatttg aaaacagaaa aggaagtctg gagattaggg taatatattc aattcttcca 198540
 ccatttttta atttttgatt tttatttttg agacaggatc ttgctctgtc acccaggtgg 198600
 agtgcagtgg catgacctcc cttgctcaag tgatcctccc acatcatcct cccaggtagc 198660
 tgggatgaca ggaccgtgcc agcacacca gcaatttttt gtatttttta tagagataag 198720
 gttttgccac gttgccagc cttggtctga actactgggt tcaagcagtc gccgccttg 198780
 gcctcctgaa gtacagagat tacagtcag aaccaccaca gtcagccctc tactgacatt 198840
 ttttaagtcaa gtagcttaat ctataaaata aaatgtttga ccacttagta ctataaaact 198900
 cttttgttgc cctagaacat tcctttatcc taatttttct ttcttcttat ggtacttggg 198960
 tgatgggtgg gagagtggc agcacaagg ggattggcta ggggtgggtac agaccttacg 199020
 tttcaaatct ctaccctacc tgaagaacaa gcttgccctt ctttttttat attatctacc 199080
 atattagaaa atgcagaggg aagagttagt gcaattggg aaagttagta ccgatgcatt 199140
 tgtactcctg attggtgagc aaaataaaac tgctcagcct cctataggat taaagtagaa 199200
 cttacactgg agatgtttga tctttctgta taaatgtttg tgataaaatc atgcttattt 199260
 aaaataagaa gatcaggaat gatagatata aaattaactg gattcagatt ttctgagatt 199320
 ttagaatagg atgtcagcta tttaccagag ttatggagaa aagttttaat aatgacgtgc 199380
 taatatctct ggcagatacc aaatctaagc agatataatt aatttatatt ttttttttta 199440
 ttttggtctg ctttcttatt catttactca tttaaccaac atttactgaa agtcttctgt 199500
 gtgcccagtt gcttctgagg gacttgcagc tgggtgggag agacagatgt gtagtccaag 199560
 ctacaggata gaggtgctga gtggagaggg gagaggtgag caccagcctg cttgggagaa 199620
 tcctggattc tgcctacca tcccctgagt ccatgcagct tgtttatatt gaccagcctt 199680
 gttcttctct ttgttcattg ttcgcatgct cacttttctc tgagacatct tctcttcctg 199740
 gaatgacctg ggatcccact ttaggcatgt tggcagcaat aagaaattca gcctgagcct 199800
 gactttcaca gactcatttg gtcccagttt tctgtgtcca ggcaactcac ccagtgtttt 199860
 ctgccaccct ggcaaaactg ctgccagcac atcacactac gtatgtttgt gggttcatat 199920
 gtgtccacgt gcagaatctg cccatttctt ggatcctctt gggccatctg gggaagcctt 199980
 tttaattttt tcttttgcct cctgcctttc aagcttctct tttgattctt gtggcttgta 200040
 gtccaacaag agtagaagga aagagcttca ggaagtgagg agttttattaa aattcctttg 200100
 aagcatttca attcagtaag aggaactatc ttttctgtta gctaagacaa aaaaaaaaaa 200160
 aaagaaaaaa agcaaaatac aacaaccctc aaaaaaatat aaatgttttt aggagatcca 200220
 ttttagttct tttttttttt tttttttttt tttttttttg ggatggagtc ttactctgtc 200280
 acccaggctg gaatgcagtg acgcgatctt ggctcactgc aagctccgcc tcctgggttc 200340
 acaccatcct cctgcctcag cctcccagac agctgggact acaggtccc gccaccatgc 200400
 ctggctaata tttttttgta ttttttagtag agatgggggt tcaccgtgtt agccaggatg 200460
 gtcttgatct cctgacctg tgcctgccc acctcggcct cccagagtgc tgggattaca 200520

```

ggcgtgagcc accgcgctca gccccatttt agttcttata cacaaaattg atcctccttt 200580
accagttcc gtgtccttga gtgtattacc ttcacttccc taagcatcat tcttatttct 200640
aaaatgggga taactgtaac tgtatgtgcc tcacaggatt gttggcagga tttagtggag 200700
tggtaacatt aatagtagta attgatgagt aagattttgt tacattatgt atcaggtact 200760
gttctaagaa cttgaactct acctaactcc tttctggtag agggtattaa aagcatagca 200820
gtattcaata agtattagtt gtatcctgaa tccttttcac atctcttaat aactcaggta 200880
tcctaattct caacagttga ttgtttacct atttacttct caatatacag cttctgtata 200940
atthttctaca taatgaaaac tttgatgtac acaccagtat gaaaaatctt ggttctgcag 201000
cataccagtt gcacaattta atcatgctgt gccttggttt tcttcatcta aagcagggat 201060
gccaatacct aattctcaag tgtaaggaa gttgaatgag atggcccatg tcaagcagct 201120
gacagaccac aggcaactgac tgatgtcctt ttccatctcc catcctgtgc tgctcctggg 201180
aaccctccat cttgctgtta tccccagget gtttcatttt gttttgatga ttctcttggt 201240
catatthtata agaacactag tataagacaa agattctctc cgttgccat tttgtgcctt 201300
attctctagc cacttatgct tgtttctagg ccacaggata gcaagaatac taggcacgta 201360
gaagatthttt tgtaaacgtg tactaagctg gataaaacag acatgataaa gaatcagcct 201420
ggcttctatt agccatcagg ccagatttct tcattagcct gagcaagatg gctcagtgtt 201480
tgttcacaga ggctaaacgt atcactthttt aaaagagagt ttttgthttgt ttgtthttaa 201540
tcaggcaagg cttgtagaac ttaaggtaga agaaagtgt ggattgagcc tttgtaatct 201600
aaggggtgt attagthtag tagggctacc ataacagaat accacagact ggatagthta 201660
cacaagagaa atthatttht ttacaattct agaggttgga agtccaagat caaggtgtca 201720
gcaggattag ttggthtctt ctaaggcttc tcaccttgge ttgtaaatgg ccattgtatt 201780
ttccatttht aagctgctaa taaagacatt cacaagattg ggcaatttac ataggaaaaa 201840
ggtthtaatca gacttacagt tccacatggc ttgggatgcc tcacaatcat ggtagaaggc 201900
aaggaaaagc aagtcacatc ttacatggat ggcagcaaaa aaaaaaaga gcttggtgca 201960
ggagattcct gthttthcaa accatcggat ctcatgagac ttattcacta tcatgagaac 202020
agcatgggaa agacctgccc ccatgattca gttacctccc actcagtccc tcccacaaca 202080
tgtagaaatg caagatgaga tttggttgge gacacagcca aaccatatca ttatgtacct 202140
ggccccctcc aaatctcatg tcctcacatt tcaaaacaaa tcatgcctth cctacagtcc 202200
ctcaaaatct taactcattt cagcattaac tcaaaagtcc acaatccaaa gtctcatctg 202260
agacaaaagca agtcccttct acctatctgc ctataagcct ataaaatcaa aagcaagtta 202320
gttactthtct agatacaatg aggttacagg cattgggtaa atacagccat tcgaaatggg 202380
agaaattggc ccaaacaaaag gggctacagg cccatacaa atccaaaatc cagtgggaca 202440
gtcaaatctt aaagctccaa aatgatatcc tthgactcca tgtctcacat ctaggtcaca 202500
ctgaggcaag aggtgggttc ccatagtctt gggcagctct gcccctgtgg cthtgcaggg 202560
tacagcctca ctctgactg cthtcacagg ctggtattga gtgcagattt tccaggcatg 202620
tgatgcaagc tgttggtgga tctaccattc tgggatctgg aggatggtag cctctagge 202680
agtccccag tagggactth gtatggtggc tctgacccca catttccctt ctgccctacc 202740
ctagcagagg thctcgatga cagccccact ctgcagcaaa cthctgcctg gacatccagg 202800
catttccata cagcctctga agtctaggcg gaggttccca aacctcaatt cthgacttht 202860

```

```

gtgcacccgc aggcctcaacg ccacatggaa gctaccatag cttgggactt gcaccctttg 202920
aagccacagc ctgagctgta ccttggcccc tttcagtcac gactggagtg gctgggatgc 202980
agggcaccaa gtccttagat tgcacacagc atggggactc tgggcctggc ccacacaacc 203040
attttatcct cctaggcctc agggcctgtg atgagagggg ctgccatgaa gacctctgac 203100
ataccctgga gacattttcc ccattgtctt gcggattaac attcagctct ttgttactta 203160
agcaaatttc tgcagtgggc ttgaatttct cctcagaaaa tgggattttc ttttctatta 203220
tattgtcagg ctgcaaattt tccaaagttt tatgctccgc ttcccttata aaacttaatg 203280
cctttaacag caccaggtc acctcttgaa ggctctgctg cttagagatt tcttctgccg 203340
gataccctaa atcatctctt tcaagttcaa agtcccacaa atctctaggg cagagacaga 203400
atgctgccac tccctttgct aaaacataag agaaccacc tttgctccac aagtccctca 203460
tctctatctg agaccatctc agcctggggc ttattgttca tatcattatc agcattttag 203520
tcaaagccat tcaagtctct agggagttec agactttccc acattttcct gccttcttct 203580
gagccctcca aattgctcca acctttgcct gttaccagtg ttcaaagttg ctccacatt 203640
ttcgggtaac ttttcagcaa tgtgccactc ttcttggacc aatttactgt attagtctgt 203700
tttcatgctg ctgataaaga catacctgag actgggcaat ttacaaagga aagaggttta 203760
attggactta cagtttcatg tgggtgagga agcctcacia tcatggtgga aggcaaggag 203820
gaccaagtca catcttacat ggatggcagc aggcacaaaa agaggttggtg caggagact 203880
cctgttttta aaaccatcag atctcgtgac acttaaatca ccatcatgag aacagcacgg 203940
gaaagacttg ccttcatgat tcaattacct cccaccact ccctcccaca acatgtggga 204000
agtcaagatg agatttgggt ggggatacag ccaaaccata tcagccatct tcctttgggtg 204060
tcttcacgtg atgttccctt tgtgcatgtg tcttgtaaat ctctcttat atagatactg 204120
ttggattaga gtctacctat atgacctcat ttcaccttaa ttgtctactt aaaatgcct 204180
gtttctaaat acagtcacat tctgaaggta gtgagcatca gaacgtcaac atttgaattt 204240
ggggacacat aagtcagccc atgatagggtg acagtctgag aaccggcat aatgatcttt 204300
tccaaggctc tatgcttctc tggagaggat atgtgagtga cagttctgtt gggcataga 204360
gctggaaaaa atttagatga agaataatta ttctgatttc tgaaatcacc acacttctgc 204420
tttcttaaca gcacttacta ggacttagtc taatttttct ctttatattc ttaggctgtg 204480
tgatgagtc ttactgttga gcacttattt tttctccctt ttgaatatcc agtccctagc 204540
acatagtatg tgtcaggaaa taatagttga attgaatata ggtgattcat ctgcctctgg 204600
acattctcac aatttcctac accacaaaag gaaatgaatt tgtcttttcc ttagtcgtct 204660
accaagaatg aaggcatatt ttttttgct caggtgtttt ggactgaatt ctgtctgatg 204720
tctaaattcg actacagtaa tatatttatt tatgagccat ctttattaaa gaatgttact 204780
gccaccgttt ccttagttgc caattatttt gtgcattgtt attgctctc agattttctt 204840
attttggggg agacttaggc ataatttcct tagatgtaga tcaaagctga attggataac 204900
taaaatatgt tgcaatttat gttatagaaa aatggtaaaa atattcacat attttttata 204960
tttctactat ttcagaatta atatttcacc tttttttttt tttttttttt tttttgagtc 205020
ggcgtctccg tctgtcacc aggtggagt gcagtgtgc gatcttggct cactgcagcc 205080
tccacctct gggttcaagc aattcccctg cttcagcctc ctgagtagct gggactacag 205140
gtccacgctg ccacaccctg ctaatttttt gtatttttag cagagatggg gtttcacat 205200

```



```

gttggccaga ctggctctga acttctgacc tcagacagtc cacctgcctc ggcctcccaa 205260
agtactggga ttacaggcgt gagccactgc gcctggccaa tatttcactt ttttaaaata 205320
aatcttttta atgataagac aggcttgggt ttgtcaagaa caggtttcta aaagggtttc 205380
attatgcatg cacatgtaaa taaaaacctt ttacaaatcc cacagaataa gatactttaa 205440
aatggagctg tcaagcaatt tttatatgta caggcaatth gtggtttcaa aaagctactt 205500
caaaaaaaaaac ttcaaaaagt tagtgctttt tgataattht tttttaaacc cactttgtta 205560
acaggcccaa agttatatga taaaatgata aaataaatht tttcgttata aatagtcttg 205620
tttaaaagtc caaagcgtgc ctcttaatat ttagtgagag ccctgttctt gttctacttc 205680
atcagttgtc tatgttgctg gttgacttht ggaagthtta cactgaatga aagaataaag 205740
attgtaaacc tctagaaaac aagtacttta cttctgtggt ccttccagga ttgaatgaag 205800
gttccatgaa agagaaacat ctggaatatg cttthttht tttcttaatag ctagtagagg 205860
gtgaggagg aaataagaca ctgtaggata atgcatgtht gtgtcagatc gtaggaaaaa 205920
aatcatgatg tatttatact acatgtgcta tttatataca tgtgtacca aacagcatgc 205980
agctctatgt tttagacaaa atagaagaag ctttgatgat aattatcaat acatgcatga 206040
gaatttccaa tgtcatggtt taagcaccca cttcacatac acttgtaaat tagcttccat 206100
gcattcataa atgggggttag tgtgattagc ttgccaaggc ccagaagaga ttatatttat 206160
taaagatcac atgaaaagct gtgtcctagg catctcacta ggaatcttaa ttttaaatag 206220
gtaatattat cttatttatg aactattaac acagtagaaa cttttattht gatagattta 206280
ttaatgaatg taaagatttc tgthtthtta acataaggat taatggccgt tcattcaatc 206340
taaacctatt ttgtacactg aaatataaca taaacattga tagacttgcc aatctgtctt 206400
aagcactact tttaaaatat gaagctaagt atagthttht gttgttatta agatgtthtta 206460
gacatgatta agtcattht tttgtccta taattaacct cctgaggtat aatgagaaat 206520
ccatttcaat atagaaggtc agthtthtgc gthtthttaga tthtthttht tttgtaaaac 206580
aaaacttcct gtcagagtgt gtgcccagtc gtgcatttga ttagatcagc tggcatggct 206640
tcttggcagc ctggccctca ctgccaggth tactccgtgt ccacttcctt gcagggccct 206700
gacctagagg ccatctctca gctgtcccag ccctgccaat tgthtgaggt ccctgaagcc 206760
tttcctgatt ctcccatctc acgttatcat tctctgtacc ctacaactth acctthtcat 206820
catggtatct gttgtgttag ttattthtth cattgtgtht caccaaagth gtttgctcat 206880
aggagctggt agtgtgacgc tggccacaga ggcaataaat attggcattg tgctgccttc 206940
gttgctctac ttgatgaat tagaaaacat tcagaggagc tgggcacggt cgtgcatgcc 207000
tgtagtccca gctactttgg aggctgaggc aggaagatga cttgaggcca gttcaaggct 207060
gtagtgtatg atgatcacac ctgctgttag ccactgcact tcagcctggg caacagagtg 207120
aaatcccatt tctaaaaata aataatgaac aaagaattgg aaaaagaatg gatagagtgt 207180
tgattggctt gctthtctca tagcaggtt cthtthtcaag catctthtth cacaacactc 207240
atcatgagga catcttgga gcaaaagtgt ccatactgat ttggggttac ttaagthtth 207300
cttgggtcag aatccctcat ttcattccata tctcagtc tagattaagt aatcttaggg 207360
cacacttacg gcttctgacg ttaatgccac cthtthttht taaagccctg atgatgatgg 207420
aactgtgcat gttaaagcag gaaaggggaa gaatgtgtc agcatatcta gaagcctagc 207480
cctggaaaag tacttaggtg gcacagaaag cctctthtctg gaaaaccact gaactgatag 207540

```

```

ttaaattcaa aagtcactcc tagaatcagt ttcagcacac attaaattca ctcgtcttgg 207600
atgaagccag tgaaaatttt aagacaaaaa caagatttat tatcaaatac tgggtctctcc 207660
aaaaagttac atgggatcag aatcagatgt caatgaataa tttgtttttg tacgttttta 207720
tagttacatg ttattacttc tagaactcat ttgactgggt gaactagaga accagaatac 207780
aacatgcatt tgtttttttc tatggtggaa gagaaaagta aaattaaagt ggaagttatt 207840
aatactatat atattcatag gctgctaata tgtactgcgt tctttccttt tgtgtttttc 207900
tttaggtgat tgaagatagt actggagtcc gccgggtggt ggtcacaccc cagtctcctg 207960
agtgttatcc cccaagctac cctcagcca tgtctccaac ccatcatctc cctccctatc 208020
tgactcacca tccacatttt attcataact cacacacggc ttactacca cctgtttaccg 208080
gacctggaga tatgccgcct cagttttttc cccagcatca tcttccccac acaatatatg 208140
gtgagcaagg tgagtagatt ttcgttggcg tcaggagccg ttgaaactga ttacagcggt 208200
tcaatagttc aaggcgggtcc tttgtttctt gtgaaataag catagtagaa aaggatctag 208260
gtggtttgta agactcatgg ggaattccta gcttcctttg tcctgaatgg tgccttgga 208320
aaattacttt gtgggtttag ttctttttct ttctttcagt tttcacaaac tcggcccca 208380
ccccacctt acaagatcaa ggagtaaggt agccacctt tatttttagaa aagtggcagt 208440
gtgacatcgt tcccatgtcc tgaaagcatg tttgtatgtg agagtggcct gaggtacaac 208500
tgtggcacat cgtttctttg gtatccatat gatctaccag tttaaaggga attgaaaagt 208560
gttttgtgcc ccatttccag tgtttgaaga ttgtgaagtc tcaagaacct ttaggtttcc 208620
taaaaggctc tatgttgtga tgctggcaga actcaaaaat cccctggctg ttgatgtggc 208680
cttctgaac ctgcttttag tttaagagta gccattagt cagccgcaat ttcactgatt 208740
gttaggcaaa tacttacctg gatatgaaaa gagctcaga gctaccaaca ttatatcttt 208800
ttaaagtttt gaccctgggt ttggtttagt ctaaaggctt tctctatcaa aatggatact 208860
aagaaaccag ataattgagg gtaaaattag actttagcct ctaggacttt gcaaagtgat 208920
tttcttctga gtctgactat gaatggaagc attttactgc ttcagacatt tattatgttg 208980
gtttagatac attgtagaag aaatgcctgt tataccatag aatgtttgag caagttatca 209040
cttttaagaa ttatatatat ataattatat aatttctata taattaatta tttatttata 209100
attatatatt tatatatata attattccct gttcatctca cattataact tattcacaga 209160
aaaaactttt ttgagatgat attttaagt aaatatatcg ttgtaactta gggatagaat 209220
ttgactgtat gtgtgttttg tttatttttt tttgtagtca aagaaatttg acatgattca 209280
aattaatcag gtgctttcac aatgtcgtat aaggggatga tagcaaaaca tgaaatcaat 209340
actttgattt catagcagca tcaataactt cctatcaatt tgatcttttt tccatgcgac 209400
acaccaagaa aacatcaagt attggggata tactatgaaa acatttgat aaaaactgaa 209460
aaaatttagt tagctgtaat ttttttaatg tattcagtgc tttgactcaa catgcattaa 209520
ataattgagt gtttcttaga gctttctggc tgtatctgag ctctgatgac atgaaaggcc 209580
ttggtgactg actcattgct tgctggtata tgtctgactt gccttatttt agcagtctgt 209640
tagtaggatg ccacatggtt actgttttgt aaatgctgtc ctttgcaatt ttaggcaaga 209700
caacagtatg atttaaactc tcattagagt taagcaaaat tgtagtctct tcattttatg 209760
gtgtatttgg gtctaattcc attaaaataa cacagagcaa taatgtatgc aaataaaaaat 209820
gccttcattg atttcaaatt aaagcagtaa aacaaaatcc cttcccttta taaataagcc 209880

```

```

attgatatat tcttttacct tagttcttag tgtgcatacc taaaagcaat ttaaataatta 209940
attttctaaa ctataagagt tttaaaagtt ttcaacatgt ctgaaaagat tattactgcc 210000
catagtgaat atgttaaadc tcatgtgtaa tacatcgtgg tgtttagaac atttactatc 210060
cttctgggat attttgacat agtttctttg gatacacact ctctgaatag gattatattt 210120
gttttgacac gttctctagt gcaaactggg tctctcatga agatttggtt tttacaacaaa 210180
caactcttgt ttatgcttta gctatgttaa cagtaagaaa cagtggagct ttactgttga 210240
gtaattgaga cagcagtttt gttaaattat gcagggtaac catacatttc tgttgtgcct 210300
gtgacagtc tagttaggt ctcttgctt gaagaaatta ttgatattcc ttccttttcg 210360
ctctcagaag tggtcagatt tggatggtaa tttatattgt cactccatag aagaggtgac 210420
ccttttttct tataaagatg taaggacca atctttatgt tacgcattgt catttttact 210480
gatacctaaa aataattttg aactgattta aaaatttaaa tttacataa agttttcccc 210540
ttgagatcat aagattgctt gcaggttct attttctttt gagccacttt aaaatgtgca 210600
tagtaaagtc aggtgacatt ctacatttgt cttgccttct attactccaa aagagaagtt 210660
tgagaccaca gcttattatg tttggacca gatttcagag atggcttttc tttatcctta 210720
tacttctcc ttgaacattt cccctgattc tgtgagcttt gattatttta aatggaaata 210780
tgtcatctca ttatcttagt taaatttggt caaatgttgg ctcttttgta tgccacagaa 210840
aactttgact gcaatatact tcccagtaga aatactattc tgtctacagg gatgagtaga 210900
cttttaaagt agcttgattc taagtacatg tttaataggg gtattttatt tgttctgact 210960
ttttcatgta ttgcaactac tgaaaacata ttgaaagta aaaatcaaac tcagttataa 211020
atgcaactag aatatgagct ctttaggat aacaaccttg tcttcagtat tctctgtaat 211080
ataggaattt ttctgaacac acagttagt tttaatgat tgattattcc ttgattggtt 211140
agaaacaaat gggaatgctt taaatgtata tcatgtatat ggcattttct ttttctttt 211200
tctttttgag acagagtctt gctctgtcgc tcaggctgga gtgcagtgat gcaatctcag 211260
ttcactgcaa cctccgcctc cagggttcaa gcgattctcc tgcctcagcc tcctggatag 211320
ctgggattat aggcgctac caccagcct ggctaatttt ttgtattttt agtagggatg 211380
gggtttcacc atgttgccc ggctagtttc gaactccaa gctcagacag tccgcccacc 211440
tcggcctccc aaagcgtgag ccactgtgcc cagcagtatt ttcttaaaaa atatttatta 211500
gactctattt agtaatactt tagacttctt ttatacttta gacttcttca ggagccagat 211560
catttgacca ttttaataatt tattattgaa aatgtaaact gagtttgggt ttatcataat 211620
catccatttt agaaattata ccattttatg gaatgtcaac ctacatcacc cgagaagacc 211680
agtacagcaa gcctccgcac aaaaaactga aagaccgcca gatcgatcgc cagaaccgcc 211740
tcaacagccc tccttcttct atctacaaaa gcagctgcac aacagtatac aatggctatg 211800
ggaagggcca tagtgggtga agtggcggag gcggcagcgg tagtgggtccc ggaattaaga 211860
aaacagagcg acgagcaaga agcagcccaa agtcgaatga ttcagacttg caaggtataa 211920
ctcaagatgt ttgcataga gtgaattatc aagacagaga catctcaa at gatgtttcca 211980
catcttttac atgagaatat ttttcatgg tggttggttg ttctgctaag aatatttgag 212040
tagaccttct ttgatctatt tcttggttaag gaaataatat tgcattgttt attttttatt 212100
aatacttcat ggcagaaata ctacattttg gtcacagatg ccatgcaact ttgcacttaa 212160
taacaaatat ttgaaaatct tttcatgtta gcctacttct gttgtttcac tctctgaata 212220

```

gacagatgtg gaagaaatcc aaagataatt tttctaaaag tgtaggctag tttaaattctc 212280
 aaaataatta tacctcataa accatacgta attacttctt ttctgtaatg aaatctatca 212340
 ttgaatcaca gaaatatgtt tctgtttagt tttggcatca gttattgtct cataccacct 212400
 tttgcctgtg aattaagtgt tcagaaacta agaataagat ggaagaatga gggccaccac 212460
 atataggtag agaaacatca actcagaatg gcatctgtct tttttagat gaatctcttg 212520
 ggtagatcag ttcatttgga ggaaggttta tgtgtttaaa tgaagttttg gaggtagttt 212580
 agagagaacc tattttgatg ccacataagg aaaaacagt gctattttcta taggcatagg 212640
 gaagaatgac ttaagtgagg caaaaaaggt agcatttgga taaggtaggt gagtttatag 212700
 atataaatga ctggaaaaca aagacttgaa caacttttaa acataagatc aattattttca 212760
 agtagattcc ctttttcatt cacaatcaca ttctcacaga cacagtccca gtttctacct 212820
 gactgagatg cagtaaggaa tctgattata acactcattg attataacac tcattgaatt 212880
 tatggattcc ttactgcac tcattcaggt agaaaaaggg actgtgtctg tgagaatgtg 212940
 attgtgaatg aaaaagatgg aatatgtgta tttttgagt tctatggaag agcttctgac 213000
 aagagagagg aagattaggt aaaatgaaat atcgccgtcg gcatttcccc ctacgttatt 213060
 tgggtgagtg aatttcagcc tgagagagga atagtaagat acagtgaat gtgaatagat 213120
 catgtgttct tttaatttga attatgtatt cttttctcta ttttccaaac tctgcaatta 213180
 tcacgttatt cttataactc ttaaacaaaa cataaatcaa taccatacaa aagaaagcaa 213240
 agattcaaga gacttttaca caactcttaa gggaagatgc tgggtctcat ataaaataat 213300
 ttttagtcaa atgatactgt aatttctaag tttgaaatta gtttattagc aatgtttaca 213360
 tttaaccatg actatacaag aactcactact aaaaaaatt atgaatagat tttcctgaag 213420
 agaattttta tccgaagaaa aacgagagag aatgtataaa ttgtccagag agcttacgag 213480
 gtttgaagta ctttgattac ttgactcatt ctttaataat tttcaccttg ccttgacca 213540
 aaactgattt aagggaatg acttagacac aaagaagcag ataaaataaa tgtaagcatt 213600
 aaggagccga aagatgataa gggaaggaaa atattaataa gatgaagcag ggttcagta 213660
 gcattgcttg atgtgagcca tatattttgt tttcagcctc ctggttgctca cagcaaaaag 213720
 gcaaacgtga atcacatagt gtagacgaag aataaaacac ttcttgttca tggggtccat 213780
 caagtggctc acaatgtttc agttgtgtct gcctcaaaat gtggttggtg gctcctagga 213840
 tcccaaaaagg ctttttcctt ctttctcact cttacagtgt atctcctgct ggagtttact 213900
 gcggctgaca tctaaatctg tgccccgaa acagacttct taactgattc ttaagtttcc 213960
 agtgccacct gattaatcta aaactatact taatactagt atgataaacc taataggttc 214020
 atatgtggtt tgcacaagag tagaatatat acctaaccat aacatgtgac ttgtgtgtgt 214080
 tttttgtttt tgtttttttt atgtaatgtt ttacttaggt taagtgttcc tcatggccag 214140
 aagagagaaa tctttttact tttttttttt gagatggagt cttgccctgt cacgcaggct 214200
 ggagtgcagt ggtgtgatct cagctcactg caacctccgc ctcccagggt caaaccattc 214260
 tcctgcctca ctctcctgag tagctggaat tacaggcatg tgccaccaca cctgctaat 214320
 ttttgatatt ttgtagaga tggggttttg ccatgttggc cagggtggtc tcaaaactcat 214380
 gacctcaggt gatctgcca cctcggcctc cttcttttta ctttataatt cttttgcctt 214440
 tgagttaatt tgcttgaata atttaacttt ttatcactta caaaaaacaa atctttaaaa 214500
 aaagactaag tttgtgcctg gtcctgtggt aaaactaagc acatgtaaaa gaagcaaaca 214560

actcatgtta atataaatac atgtattaaa aagatgcgga taccttaatt tctctcttga 214620
ggctctagttc actcagttaa ctatgcttca gaaactttaa agcaatagag attcatggac 214680
tccatttttag acctactaaa tcagaatctt cataccactt ttgacttcat gttttttttt 214740
ttaatcaaac ctccattggg gataatgtat aatcagccaa gatagaaaat tattatacta 214800
tcatagtaat aaggatggtt aaccaagttg tacacagtat ggaataggga ctgtatctgt 214860
tttattcatc attctctccc tccttctagt acctgacaca tagtaggtac tcagtatata 214920
ttgttaaagt agtcctgttt tcttaattgc cttgttttcc agagtaagcc ttctttttga 214980
acacacaaaag ctattgtacc atttcctttt cctggaacaa agtggttgcac tgctcaagga 215040
aactgctctg tggctagcct cccctttcat ttactgttac cttcaggaaa acaggcatga 215100
cagaggccca tagtacactc tgagaaatat gggatctctg tcttcttgca ctcccttgga 215160
gctaattggtg tgatgtgagc cgagaacagt tggggcttta gtattagaca tatagtactt 215220
ggcttagaat tgggctttgt tacttactat ttctttttag ttttcctga atttccatgt 215280
tcactttgta aaatgggcat ttttaatttc attattaaat attaaaaata cccttgcttt 215340
agttcttaac actttaatat aatggtaacc cttatgactt gaatattctt gtctctctca 215400
tctttaggac tcctgttatt ataggatcac ctctcatctg agatagctgc ctctcaaagt 215460
aggcatctct ctactctcca tctggcagcc ttttccttc cttcatgct ccattcccct 215520
cacccagct ccctacattt cttctttaag ccagaagtgg cttcctttgc ttaaaccctg 215580
cttataattt gaaagctaaa ccctgcattc ctggaccact gtctctgaaa gttgcttcca 215640
ggctcttttt tttcttttga gacggaattt cactcttggt gcccaggccg gagtgcattg 215700
gcgtgacctc agctcactgc aacctctgcc tcccaggttc aagcgattct tctgcctcag 215760
cctcccagat agctaggatt acaggcgac accaccatgc ttggctaact ttttgcatth 215820
ttagtagaga tggcgtttca ccatgttggc caggcttggt ttgaactcct gacctcaggt 215880
gattcaccca cctcggcctc ccaaagtgtt gggatgacaa gcgtgagcca ctgcgtctgg 215940
caaatttttt tgtattctta gtaaaggcgg ggttttgcca tgttggccag gctggccttg 216000
actcctggtc tccaactcct ggcctcagcc tcccaaagt tgggattac aggcgtgagc 216060
cactgtgcct ggacacttcc aggctctttt aagaaagggt gccactgggt agaaacgtac 216120
agataccttg gggctctctc tgggtgaatt ggtaccagat ctacacatc tcctcgtcac 216180
ctcgtcctag ggcacttcca gctctgagt agaaagaact ctggtgcaca gcctcttggg 216240
acttcctttc tcatggctcc tgggtctctc tcatacgttt cttaggattt tctttgctcc 216300
ctctgaacct taagagactg ccagaaggg ccaccttatg gtttaagatg tgtgattatt 216360
cattttcctc tccagtgcac cctctcttgt gactacagtt aaatagatct caacatttta 216420
attccttcct tgagaacctt tgtggtgctc cccactgtct agagaataaa gtctaaactg 216480
catgatatga cacatactca cctcttgttg ccttcacat ttccccacca gacatgcggt 216540
gttctgcccc attttgtgaa tatgcctcat tccccTTTT tggcctgtcc ttccagttcc 216600
tctgcctagc aaactccaac tcaggccttc aagagccagc tcagttatca cctcctctgt 216660
gaagcctgcc tgtctctcca acatattatg atggcagata agttaaggga aaatatttca 216720
agagtttttg ccttcctttt ctcttcctct cccagcattt catttttagaa cagtgccttg 216780
gcacccagtc cacagatgtt caaggacagg aatggaaaaa tttgttcttg tgtacggagt 216840
attatgcaag agctgggcct tgagcctgtt ctgtggccaa aaccagttt aaatagtcac 216900

attgcctttc actgcagaag ctaaagaagt ttctgttgct cttcattgag tgagaaggaa 216960
gcttcatttc ttccatttta ttcttgataa aaaaaccaa gcacacaata ttttaaggaa 217020
gttattgagt gggatacagt gaggcaggat ccagttttct aactgaaatc cttcaatttt 217080
cagccagtta tagccccctca gaaagcagtt aggttatctg ctaatatgtg tatagaaata 217140
attaggtgaa tttagagtaa aaaacaaaag ctttgatgag gatccactgt ttaattttta 217200
aagacctaa tagtctcaat aatatgtatg tgtgtgtgtt tgtgtgtata tgtgggcaga 217260
tggtgaaggg agaggaaaac aagagtgtaa agtcacaatt tccaaacttt tttttttttt 217320
tgagacagaa tctggctctg tcgcccaggc tggagtgcgg tggcgcaatt tcggctcact 217380
gagacctcca cctcccaggc tataagcaat tctcctggga ttacaggcac ctgccaccat 217440
gcctggctaa tttttgtatt tttagtggag atggggtttc gccatgatgg ccaggctggg 217500
cttgaactcc tgacctcagg tgatccacc accctcagct tccaaagtgc tgggattaca 217560
gggtgtgagc actgcgcctg gcctccaaac acttttttat gtataaaaat ttgctgtgtg 217620
cagttgacat tgttgacttt cactttgttc ctggggctta ccctaagagt gaggatgtct 217680
ttttcatata tgacttttac attttaaaaa cagaatggaa ttgtaagatt ttaaataatc 217740
ggcgttctgg actgtgtgac atagaacatg tcatttcact aagccgtggg ttccttttca 217800
gtaaaatgaa caggtgagtt acagtcagt attttcaaaa tcttatcaat gagcacattg 217860
cctctctttt caggcaatct tgtgtggatt accagtttta aatacagtat cccttcaccc 217920
ctaccacatc acacgcattc atacacacac acacacacac acacacacac acacacacac 217980
acgcactctg aaagcagaca gcactagaac tccagtgggt tgagtggagg acctgggtcc 218040
ttgtcacctc ccacaaggct ttcccaggga tccagccctc acctgggtcc tggctactca 218100
tggtctcaga ccagcagtat cagtaccatc tagaagcttg tgagacatgt acccttatga 218160
cctgccccag acctactgaa tacaggctgt gtaggtgggg ccaccaatc tatgtttcat 218220
caggcactcc aggttaataat aagccacagt agcatttgag aactgctggc tctttgagt 218280
ccaagcaatt ttaaccaag attttaaatg gcaggggtgg gaaagcggcg ggtgggaggc 218340
attcagttgg aacacttggg ttaagttgaa gtatgttctt tgtactatct gtatcatgat 218400
aaatatatac tagtgatgga agagtctctt ttgtgtgact aacatatagg tagcagctta 218460
tgtgaactct tctagaagtc atactgccat atgggaaaaa ttgggacaaa gtggcaagaa 218520
ttccaaatac ggaagaaaat gaacgtacag catactcttg gcatttgacc tttggaattg 218580
ttaacaatcc aaagactcag ttgcatttta gatcacattc cacgacatag actcacaggt 218640
tctggttatg ataccgaaag ccagtgatga gggcattatt cttgtgcatt tgtctttcag 218700
agttcgcaga ttgctttctg actccagcag tgttccttat taccggttct ttgtattcta 218760
attctttctc aggtggctct ccttggcatt tttctctta ctattcttat attttgtgat 218820
cattgctcag aaaccagaat cagactacag ctttacttcc cccaaagcag caagaaagt 218880
tattcacaat aacagtaatt attcataatg agaagtcaca gcgcaccaag gtttgggatg 218940
gcgttttttc cctctggggg tctgagactg tggatatttt tgggtccttg gagtctatcc 219000
ttttgtgaa tggcttgggc tctgggaggg catagcagca tccacctgcg cagggtgac 219060
agtggtttcc tttgtctgga atgacgtgct taatgttaat aaggtctgga atgttgggag 219120
tcaagacaga ttttcttttg gaatctcttt ggtcttggct ccctgtaaca gataatgctt 219180
gtgcttttct gttttctgat taaagtagga tatttagtag ggcttttgca cttcacaagt 219240

ggcagatttc ctctttctct tgtaagcttt ttctgtcttg tgagcacata tcctaggcat 219300
gctcagacga ggtgttttgg aaggctggag ttggcagggt tcttcttttc ccccagagta 219360
tctgcttccc ttactgcatt tgaacactgt actgtttcta gatacathtt taatattgct 219420
ttatctctca agtctatagg tgatgatgaa tcctgtgttt ttccacctgt ctatagctgc 219480
atataaattc tgagtattgc aaaaatatca agaaaacatg agaaaagtta aaagtgagct 219540
caggctcagt gaattcatcc atctggctgc caattacagt ctgaaaagta aaaatagtcc 219600
aaacaagccc aaataacttt tttttttca aaggacagt gggacccttg gattagaatg 219660
caagagacat gaggcattct tcttggcagg aaactggaca attaacatcg ccacttccat 219720
ttcaagcgta ggctgccaga tctctctgct tagttataga ggcctctgag tgactctagt 219780
taggggccga gcgcacttga acgccttgca actgtctatg tgtgggatgg agatagtctt 219840
ggggacagaa gcctgtttca taaggagcat gctgctcatt aacatgcgct ttctgacttg 219900
ggccttatcc tgcaggccca aggetggaga aatcaaatg tgaataacta cttttctgta 219960
agacccttt atgatgattt tttccctct tactgggatg ttgattttac tagtgcaag 220020
gcaaatttac agctcaacaa agaggaaacc atggtggccc aaattgttaa ttagtagagt 220080
atataattgt ctttattaag ttacatcact tctctatct tttgcctttt gccctttccc 220140
cctcgatttt ttgttgcaat ctggaatgtt ttaaagatgt ttactacatg attctttcaa 220200
caggcaaaat gagatatttt tgtcatgtca agttaagaag tcttaacca ttaaatacata 220260
cttgaagctt cacatttttc acttgcatat aaagacaaaa agcatgcaaa aataattcgt 220320
tgagttttct ttgaaatga atgttcacca gaagtttgag gtcagaattt tgattagtgt 220380
ttaccatatg tagtactgaa ctctgtaaac ccatgttatt ttctctgcct ttttgctttc 220440
ttgggaactg atcatgacag catttagatg acatcagaac ccatgttggt aaaataaatg 220500
tcatcccaaa gaacccttta aacagcagggt ataagtatg atatggtttg tttctggtat 220560
atttgtaacc ttcaatttta ttgatttgaa acttctatat gttatttctt tcathtagct 220620
aagttgaatt ctgaatttaa ctgggttaga gatcgtcatc acaaaagtgc catactcaga 220680
agcatattta aaatatgtac tagttgggac cttgcagatc ttggtttagt ctcaattcag 220740
ccacttggga actatgtgcc cttgggcatg atagttcatc tttcaaggct tcatttcttt 220800
cttgatatgta gaaaataggg gtaattaatg gcatctcttt cagaggacta tcatcagctc 220860
ttagtacaat ttcagacact aagtgttta aaaatgtagt ggtattggtg aagaaagacc 220920
atgagatttt ttccttgatg gaactgcttt ctgtgggcca ttttattata acctagctt 220980
gtgagcatgc ccatcagaat gctgttgggc aaggcgtcct gcaggctggg tcagtgttaa 221040
gtaatagtga atgccaagga cttgagatag gggagagtgc agaggggcat ccactcccca 221100
aaaaaggttc tcgactatt gccaaaccac aaacaacctg ctgaattctg ggcaagaata 221160
aaatgcagtc ctctctccgt gctttttccc tgtcacctct ctggttgaat tctctgtgtg 221220
agcccacaga atggggtctg acaggcctgc ttgattctgt ttgaaccac tcagcaaatt 221280
aaccactcta agttactttg ctaaaagggg gagatttcag gggacattag ctggaggcga 221340
tgggcaaaca acaacttctc tatattttatt tttctcccac ccacattcct tgcattaggg 221400
caattagtta agctagatgg ataaactaac tgggtaacct actaaatttc caagtctttc 221460
acaacctttc cttacacctg gcaacttgta caccatgtct tccgcattct gtgggctgca 221520
tagacctgcc ctgctacatt gcggaagggg tcagcactag gtttaagtag atcatggggg 221580

tggcgaggca tcatggaggc tgactaccag gtatgtcgag gtggaaacca tttctgttaa 221640
taccttatct gaaagagtct cagcatttgt gatggaattt tggcaaattt cctgctgcta 221700
tgtcaacatc gattttgtca ttgcttctcc ttctgtggaa tggagctcta ggatctttac 221760
ataaactgca gtgtcaagag gcagggtgtt gaacttctgg ttttgtatga tcagtattgt 221820
aatgtgataa ttatagtcta tactacaaat atgttcatta ttcttcatgc tttctgcat 221880
ggtcagctgt ggcttttatt ttaaatttaa tttgctcaac cagacacaca gtgtagcaga 221940
cgctattacc gtatttcagt ttttggtgct gtagtgagac tttgaaattc taggaattga 222000
gtagataaca caagtgtgat gtgggaaagg tccctgggaa acaacagtga ttctattagg 222060
ctgggtgcaca aataattgtg ggttttgcca ttactgttgt acccacataa tagctcagtg 222120
catgcaattt acaaagtaat aagtgaatg ctccccatag ttgactataa catttccctca 222180
tttttctctg aatttgcttt ttaaaaaact ctcccccttg ccattccctt cccattccca 222240
gattgtaact gcttctttcc agctgcatca gaagaagggg actttccatg taggtgttat 222300
tctcagaaaa ggccagaaaa gaccaggtca tgggtgggat gatttgctcc aagcataaaa 222360
gagaattgtg atggttcagg aagactggaa aataacgaga ctggaaagaa atgagaaggg 222420
cttcagagga atggcacatt gaaataaaaag gaagtggtaa gaacaggaaa acaagtggaa 222480
tgaaaggagc acacagtggg cagggatgat tggatagact gtggaataaa gataatttgg 222540
gaaaaaaatg ggcagaaaaat aagagaggtt tcatgtttcc attattgtat attctattcc 222600
tcctactagg ttaacatttc ccagaggggt tgggtggaga cggggaaagc ctttttgccc 222660
tgttgtggtc catgtgccct tctgctggca gatccacttg gaacaaatct ccatgtgaat 222720
acatctccta ctcttttctt atttgaggtt tcctgatgct tttgtctacc tcttgtgctg 222780
gattagagca tccactgccg gcatgcatta atgtgataaa caaaataaaa gtgaagtctt 222840
aagtagaact ttgcaaggag tagcagtaca ctatacggag gtattagggt tttttgaata 222900
tgacttgaag ttgttaaaat gatatttttag agttttgatg tgcttaaaaa ctggaaattg 222960
agaatttttt tttttatttt ttgttttaag ttaaaaatta agcacaagat gccaggcatg 223020
ggaggatcac tttgtgaggc caaggcgaga ggattgcttg agcccaggag ttcaagacca 223080
gcctggacag catagcaaga ccccatctct gacaaaaaaa attagctgga tgttgtgggc 223140
atgcctgtaa tcccagctac ttgggaagct gagatgggag cattgtttga agccaggagg 223200
tcaaaactgc agtgagtgtt gatcatgccg ctgccctttc gcctagatga cagagtgaga 223260
ccgactcaaa aaaaaaaaaa aaaaaaaaaa aaaaagcact agaaagttag gagagagggc 223320
agcacttttc ctttattgct gggtttagtat gcctttgtca aaagcagctt gttttaaatg 223380
aagatgtcat gcttatttca agtcctctta aaaccaaat cactctcata tccccttggg 223440
atgtaataaaa aagcaatata tataaatata tatatatata tatggcattt ctgtgaaata 223500
atcaactctt gctttctaga cttattagaa ttacctcatg aaagcaacat gaggaagtga 223560
gtgggaagaa ctaggtctac aacagttaaa aatttttttt cataaatgca tttattactg 223620
cttctcttaa ttcacatggt gaacttccat tgaccttttt tcctttttat ttgaaaagac 223680
acaaattatt gtatggaaca gtacgatctt tcaaaccagg agggatggag aaactgcat 223740
attttagggt cactgagttc ctcaaaacta ttttaagtgtc ttgccaagca cattttttaa 223800
aaattcatat ttagtctttc aggaagattt atcttttgtt ggaatgttgc tccaaggaac 223860
tctgtaatat accagcatct cttgaaagct ttgttaaaaa tgatgtgtta cttaagtga 223920

aaatggttat ggggtgcctta attattcagc tatcaagtgt tttttttttt tttttttttt 223980
ttttgacaca ctgacagcat tcgtattatt tactacttac actatcatcc atgggaagat 224040
ggctccaatg tacttgtaga cagttttcaa tttgaaaact atatcttcat ttcatggaag 224100
aatttcatgt ctgggaagta ctattcccta tagagtttaa tctctgggta tagtggtctc 224160
aacatcatct acaacattac gcatgaggac tgtttagagt aagttaggta agttgctatt 224220
gcattagcat tcctctgaag aaagatgata ttttaggtag taaacataca tgcacatag 224280
aatcagtagg atttctgat ctgcctgact ctgcagtgtc tccatgcctg ttttctgtgt 224340
catttcttca ttttcttttc ttttatgggt tgggggagag acagggtctt gctctgttac 224400
ccaggctgga gtgcagtggc gctatcacag ctactgcag cctcaacctc cttggctcaa 224460
acaatcctcc tgtctcagac ttctgagcag ctggaactac agacatgtgc caccacacct 224520
ggctaattct ttttatttat tttatTTTTT gtagatacag ggtctcactt tgttgccag 224580
gtggtctcga actccttggg ctcaagtgat tctcccgcct cgccctacca aagggtctag 224640
attacaggcg tgagtcacca cgcccagccc tgcacattt cttttaata atgtcaagga 224700
cagcaggttc tatggccctg ctacccatag ttggaatgag agatacagta atcatctaaa 224760
tcttagcctt tatagttaag atttcagaac ttggttttct gaactgaata atctgtggga 224820
tgtttgtacc cagaaattag gattctcatt catctctttt tcttctattt tatatgtttg 224880
tttcttgcac ttttagattc tatgaattct ctaccctct ctctgttct gtatatctgg 224940
cttccaagac ttgcatatt tatcatcagt aatactataa atggactttt aaaattcaac 225000
actttcattc attcatgtac tgctgaggta ttttttattt ttttttgcac tttgaactgg 225060
gtaaggaaat agaaaatgat aacgatacat gagaaggatg tttttaatac tagattgttg 225120
tcatagctgt caacctattt acttttgaag aagaaagttt caataattgc tcttatttta 225180
agactatgtt acaagctcat tgagtgcac caaggaaaag gaagcatttc agataagcta 225240
actgcccttc ttttaataagg gtgcattgtc cagttgctag attgtccttg tcatcttatt 225300
tccatttcct tccttttgtc catttttatc tttaatgac tcagtaggag gtaacaacc 225360
tcgataagag gataaggag aatatacca agtgccgctt gtcaatagct ctgataaaca 225420
tttgggtgtg gtggaaaacc tgaaacttaa aatgattctc agaaattatc tctagggttc 225480
atttgtaata ttgggtagat tactatttct gtaggtggga aactactatt tctatagatc 225540
aaaaatagtt gaaattttac atgcttcaac ttaatatcc acacatcaat atgaaagata 225600
attaataggt atctatacaa agtatatctc tactctgtgt ctcagctgtt ggtatgctag 225660
aatttgtttt gtttttactt tcagtgtcaa aatacagtaa aatgttttag gagagaaaac 225720
agtgaacatc aaagaactca ggtaagtgtt ccaactgctag gatgtttttt gcaaatagat 225780
attaaaaatg atattttcag gggagcagta gatcaataat ctgtttaagg caggagatac 225840
tggtatttat aaagatatga aggaataaaa tgagtgccca agatgtttac ttgaaatgg 225900
ggctagagtc ctattgatta atgctggtga ctgagacttc aacattgaaa ataaaccatc 225960
cccagacaat tggttaattat aggtgacaat tatgttatta tactttattt aggtagtagt 226020
tttgttcctg gaaaattact tttattcaag agaaaaattt gaagcatttg agaactgaat 226080
gttttgtggg aactcttgt tataattttt cagttttatt caatttcata agtcttcagg 226140
gaatgttttc aggcctagat ttacggacac tgtacatagt acctactacc aaaagaacat 226200
tctaccacca ggcttattag aaagcatatt gtctgttttc ctgctgcctt gttgtgagca 226260

gatgttccct cagcatttct gaattatttt aatgcacaag atgggaagaa caataagtta 226320
aaagaaaaag atagggatga attttttgac taggtaactg catttgagtg gggataaatg 226380
tcagtattct caatcttttt tatccctctg ctcaatttga ggtaatacca tgtggtgacc 226440
tagtctgtca tcagacccta aaaattcagt aacaagcctc agttctgtat taataggaga 226500
atggattaaa aataaatttg taataaactc tagcacagtc ttgccacttg agctcagttc 226560
ctttgatttg gcccaatttt cttcactgtt tttcttttca tattgtaatg actactgtcc 226620
acagagaagg ttaacacaat ggaggcatac ttctgatggg ctctgtgttt gtttcctgtg 226680
actaacaat cagcacacac aaagctgggtg cttctttttt ttccccata gagatggggt 226740
cttgccgtat tgcctagact ggccctaac tcttgggttc acagcattct gccacctcag 226800
tttcttgagt agttgggact ataggcatac accgccgtgc ctggcaaagc cagtgattta 226860
aaacaacaga aatttattct atcacagttc tggagagaat gtagagctca gaagcccaac 226920
atcattgttg cccaggtgaa atcaaggtat tggtaggccc gagctccctc cggaggctct 226980
aggaaaatat ctgttcctcg cctcttccag cctcaggtgg atgctggcac tcttttgctt 227040
gtagccacat cactccagct tcaagaccag catcttcaa tctctctgct cttttcttcc 227100
cctctgtttg tgtaagtct tcctctgtct ctgccttata agaatacatg tgatctcatt 227160
taggtcccat ctggataact caggataatc tgccatctca gaatccttaa cctaatacata 227220
tctccaaaga ctattccttg cagggtaca ttcacaacca ccacagtctc cttccagcat 227280
ctgtgttcta gaaacctggc tgagccagcc catttggtg catcctaggt ctgattgata 227340
caccctcacc ttccacaaca tctactacct actatccgt atatgctttt tagtgagctg 227400
cagttaattt catccaaagg tacaatagca gcagcaagta tctgtctcta ctaacacagg 227460
ccaagaatca tttagcagag ctacctctc tctttagaga agcagtttac gtagggaaat 227520
ctacacacac actttttttt tttttttgaa cagggtctca ctctgtcacc cagactggag 227580
tgcagtgggtg tgatcttggc tctactgcagc ctgcacctc ctggctcaag caatcctccc 227640
acctcagcct cccaagtagc tgggactgtg ggcatgtgcc accatgcctg gctaattttt 227700
gtattttttg tagagacagg gtttcacat gttgccagg ctggtcttga actcctgagc 227760
tcaaagggtc ctctgcctc agtttccaa agtgctggga ttacaggtgt gagccacat 227820
gccagccta tgcacagtaa attagctag ttaagcagt tcataaagct gaatgctata 227880
acaactgtgc tggaataga agtgagttgt gctgtggacg tgcattgtga ttcacatgta 227940
aaatggcggc tgtgtatttt cagggcata ttaatagtta aatatcagaa tctgtataat 228000
tcctttttaa tgatgaccgg agctcatggc atttcccaag aagaagtga atgaacctat 228060
ctgatttgga acatatattt tctttaaaa gtaagtaaga ttgttttcag ggagcatgag 228120
ataagattta caaagtttaa aagtaatctt taatgaatct tatgtccgt aaatgtttaa 228180
tagccctcag ggaaattaca taaagctgg actcattgga tattacata aatagctaat 228240
gttataatag attgattaga ggtgtctttt ctctgatggc tgtcatgtag gcagagtcta 228300
ataattaatt taattttgaa gaagatttct gtggacctg aggtgtcata tgccaagtgg 228360
gtgacaaatt cttaaagccct gttatctgcc ttgtgttttt aataattatt gccattgta 228420
ataaacttgt atcttagatt tcttttttca cccttcagtg ggtgttttgc ctaaattgaa 228480
aagacataga agattttaac tacatatgaa gtactatttt aagtcatttg agatttttct 228540
ctcctccaga attttttaat cctgtcatac ttggcggaata ataatgtata catcaaagtc 228600

```

aagcatactt aattatatag tttaaacatc agtgcacat tagttaaatg aacaaattag 228660
ttaaaactct gtatttgctg tgggtttcaa aaattacctg gacagtaatt agagttacaa 228720
agagttctaa aacaaaagtt gatgagaata atgaagtga actacaaagc cctgattgta 228780
taaatagggc aagaagaaat aataccaaga agtgggggaa aaagtgtttt ggccagacct 228840
gagaactcag ctggatcatg tggatcagc caagataata tgtgacagag aacggcagat 228900
acaaatacca tgacactctg tacatgggaa tagagaaatc agggataaaa aatacaagtc 228960
atgtagatca cagctctccg tntagccagg ctcaagttaa ggtagttcag ttgtataatc 229020
aactttcgtg gtattgctag gaccttaata gaggagaggc aaagctgagg ggagatcaca 229080
ttatgttacc tctctggaat agtttctcca atctttccat gcatttaaaa aattggatct 229140
gtctaattca agccatttag ttctacccat gtcacatgac ctttggtttt agctacttat 229200
gtgatttttc catacaaata tcagtcactt gcagcatata ccatgccttg ccagttcctt 229260
ttggaatcaa tttaaatgag aaaaataaag gactttggga aaaactatct aagtgtgtct 229320
gttaaattgt ttactatctt gagaatagtt ctggagctctg aaatacattt tccatttaat 229380
agtatttggc tttttttgtt ttgtttgagc catagcattc gtggaaatat gttgaaatct 229440
taagtggaga gaatatgact tactgctttt ggtattactt gctgtctaga acgttacagt 229500
ctccactata gtatgttcct ggtcagcagc attagaaaca aggacaactt cagactacaa 229560
agaaatgtgc atatttgtat tcacaacttt ctccctatct taaaatctcc atattttttt 229620
ttctttcctt tccttttcct ttttctttcc tttcctagge tctctctgtc atccaggctg 229680
atatgcagtc gcatgatcat agctcactgc agcctcaaac actgcacttc aagtgatcct 229740
cctacctcag cctcctgaat agctgggacc acaggcatgt gccaccatgg ctggctaatt 229800
aaaaaaaaatt tttttttttt ttttggtaga gatggtcttg ctatgttgcc caggctgggt 229860
ttgaactcct ggcccaagt gatccccttg tcttgccctc ccaatgtact gggattacac 229920
ctatgagcta ctgccccag cctattctgg attcttcaga ttgtagagcc aactgtacta 229980
caaactctgt tgggtttttt gttgtgtgtt ttgtttgtt ttgtttgtt ttttgagag 230040
agggtctcac tctgtcgccc aggctggagt gcagtggcac agtctcgact cactgcaacc 230100
tccacctctc gggttcaagc ggttatcctg cctcagcctc ccaagtagct gggactacaa 230160
gtgcgtgcca ccatgcctgg ctaatttttt ttgatatttt tagtagagac agggtttcac 230220
agtgttagcc aggatggtct cgatctcctg acctcgtgat ccgcccacct cagcctccca 230280
aagtgtgagg attacaggcg tgagccaccg cacgcggcct aaactctgtc ttttttatag 230340
gacatttcat caaatacata ttcttagtca cttgagtggc aactcttcct agatattaat 230400
actgtataca aaaagttagg tctagaaaat gacatcaatt attgtgagac aagtaacaca 230460
tttctgtata tccaaaacat atttcattaa atttgactgt tttcctaaat ttccaatgtt 230520
attgtagtgc ttgttttgta atatttgtct tgcgtgtgca catgtgcact tacatagagc 230580
ttaaatgggt aaaaatagagt gttactctct ttgctggtct cactgcttta gctgttgctc 230640
ccttaaaatt cgttctctgc acagcagctg ggtgaagttt ttattaaaac ccccatgttt 230700
tcctttcgaa cttagcatac agtgcaaaact ctactatggc tgctgcctga tgcgccttct 230760
tccagccctg ctccagttct ctgtgccctt gccacacagc atactttctc caattctcta 230820
acatgtgggg cccattctgc cctagtgcct ttgccctctc tattctctct cttggaaagt 230880
tcttttatac tttgtatagt agaatcctcc caatccttcc tggcatagcc caaatgcttc 230940

```

```

agggtcagag agaccttctt ggactacttc atcacatcac gcttctctac atattcttca 231000
tgacacccac cactagctga ctctattgtg tttgtttgtg tacattttct atattctcct 231060
gcaagagttc acccttgact atattggaaa cagattggag ttggcagaag ataacatgca 231120
gagctcactc aaggggactt ccagacatct tttatagata atacgaattg ctaaatttgc 231180
ttttcatcta aaaaatttca tttataaga cttgggttaa aatacagaat tccattgcag 231240
ttggaaagag ttaccagata gttcattatg tgtgcttgaa tgccagtctt gcacagcatg 231300
tagcacagtc agtatgaaac ctttttttga ggaactgaaa tgccaggtaa gaattctatg 231360
gtaagcctat ttcagcccca caaatgaagg cttttcctat aaatgtggtc ttgtatttcc 231420
ttccagccag atgaatgcaa gaaactgtca tcgttgctct ctccattttt gtttagtaag 231480
aacgagcctc tttaggtgtt tgtagagtta ttttggcagt ctagtattat ttccactatc 231540
attagctttt acccttaggt agaacctgga ctttgtgttt tcacctatcc aattttcatt 231600
acatttcatg taattcatag aaattaaaat ttcactcaga tactcttgac tgcatagcaa 231660
cagacctatt ttggagtatt aaaacaaggt tttaatatag aaactgtttc aaccttttgt 231720
tttaaactat tgatttccta catagtttgg gaattttttt agataccagc tctcttcagt 231780
agttccgatt tcttaggact tttataaaaa acatcttgaa aaaatggtat cataacttta 231840
atattactca gcacattttt tgttgttgtt gttcagaatg gtttatgctc tcttattctg 231900
atgaaaaaga agatgaaaac attcttttct aattgttggg aaatgttgtg gaacctgact 231960
ttttgaccgc ttttgccaat gctagggcct gttgacctac tcattccac ttggctctgc 232020
cagctggggc tgccttaact ggtctccatg ctctatgag agagttctta ggtaaactgc 232080
aagtctgcat cagaaagccg tgcagacgtg gagagccatc tttttccaaa cgttcagtgc 232140
aaggcagagc aacaggctct gctttgagaa ttattgctgg agacaccatc cacgcatgca 232200
agcattctgt accgggtagt aactgacaa tttggaacaa ggatagacac tgccatcttg 232260
gttcagaagg cctcctaata atggcattct agaagagaaa acctggatta tgtagcctaa 232320
gatatggctc tgttctggta gaacatgtgt gaataggaaa cacatcgtag cccttgctga 232380
tactgttact agggctaga tcaccgttgg gcttaagcag agatgggtaa tttttgcttt 232440
ttcttaatat tccagcagtc taaactaaaa atatggagag attataaacc tgtgtttgcc 232500
tgaaaacaag attgtcacca atctcaaaag tcagaaataa atcatttttt ctcatactct 232560
gtataatagc tataagagag tggggactgg aaaggtattt tggagttaa aagtagtaaa 232620
acacagaacc atgagtcctg cttgcaactt taataaaatt tgggtattgt ctgtgtagaa 232680
caccttttct gttcctgggt taggtataaa ggacctcccg ttatgaaacc aagccagaaa 232740
ctgccctaag attaaatacc ttaaggaaaa gtaacctttg tggcagtggg gaacagtcac 232800
agctctgaga ccacatctct ggtcagtgc cagagatctc tgagagctga tgggctgtag 232860
tggggagaag gactggctgc tacaggaaat aaaccttatt tcagaccac ctggaaatga 232920
tcttacttaa tatgttgctt tttacatgtt ttagggaatt tttagattca catttcagga 232980
gactattctg tatttgagcc tttgggtttt gctgaagagc atagaacct aaaaaccgaa 233040
tatgatgata ttagaacttc cttaatttct ttctttccac tcttagtctc ttttctcatt 233100
tcctttcact gctctgaaaa ttaacacctg ctagggaaat caactttagg ctgctttcat 233160
tggaagccag tgtctaaaaa tcaatcctgg caactagtgt aaaatgaaat ttggaagatg 233220
tcttgattct catggacttg tgcaagctga agttattaaa gaggattagg aaccacagct 233280

```

```

ggtgagcaga tggaatgctt ataatttcac aatctgaggt agctgtaaac tcaaattctgc 233340
acaaaacttc tttgcttttt ctctagttaa ttccacttta tcttcctgga ctgtaaactct 233400
gggcaagtac gatcgtttta ttgttggaaga tgatgagcct taatagggtc ctcatctaga 233460
tggcacatcatt taaaattcta gttgtacaat ttcatactca gaatttcatt tcagaaacca 233520
actattttaat aatggactta ttaacagcac aataagtagg aaatggtttt acctttcgtt 233580
caaaatgtag aaatatatct taaatttgaa caatgaagac tggttcacag taattgcaac 233640
tagacaatat aactacttgc ttcttaaaga aatgcttgat tccatcagtt tcttcagctt 233700
tttctgtgtt catttctact agaaattcct gtgtcataga aaaaaagtcc cctaaagcca 233760
ccttcttcat tggctctgtt acctaatcac aggtccctg ctccctgtat attccccgca 233820
cccatgacta cttctctgtt cattctatct gatcataata taggggcctt atacatgcac 233880
agagcaactg tttgccccct cagaaacata agcctagacc acattttctg ggtagattag 233940
tgttttctcc acaaaggaag gtgtttgtga gactttcatc cagtggctgc taggaaggtc 234000
aaattaggaa cttttgtcta cagatacaaa gacattaact tacactttat gttagtgggt 234060
gttactttat ttaacaatgg aattagtgtc cactctacag tttagcacct ctttatectt 234120
actgaaagac tttagagaaa tggctgctaa ggtggagtgt cttcaaatac agaaaaacat 234180
ctggagccgt aaataagttg agcagcccgg atacattctg tactagctgg ttgggaagaa 234240
aacaacacag ggataattca ggtggtgccc cacaacaaac agcggtagtt tatggtctga 234300
gatagtctct gtctttttgg aaccgggtgt tgcttcttct ctaaagccac agtcagcagc 234360
aaaaaatact gtaacatgtc ttttgaagc aattactgca tgatcctcag tgttctagcc 234420
tcagaacatc ctgagtgttc catttctata cgtgcgggag aagaggacat attaccgatg 234480
ctttggcatg aagtaatctg gagaattatt ataggatatg gtctttcttg accagctttt 234540
gaaatggctt tcagtagctt ctctttggat ttccaaactg accttctgta attggatatg 234600
gcctcttaca gaagcagtag tataaacatg tttaaacttc taatgtaatt attttatect 234660
gaaccaagta gtctagcagt ctctccagc ggatagattt gtttatctta agtagagttg 234720
atctccccgc cttacccttg ttacccttgg acacaggaga tggcaggaga agaggttttg 234780
gatggcccc aagaagaagt agacttggac cgaaaatcag aagacaagaa gacctgagga 234840
tttgatactg ggttctttta gattttcctg tgcatcttg accagattca taaaatctct 234900
gatttgctga atctatatct agtaaattgg tataataata tctaatatgt atttgcatat 234960
gtttggatat tgtatttgta tgtgatgact gacataacaa agtagcaca actaggtagc 235020
ttacacaaca caattttatc ttctcacagc tctagatgct agaagtcaga ctgcagtgtt 235080
ggcagggttg gtccttcagg gccatgaggg aaggatctat tctaggcctc tgtctttgac 235140
ttgtagatgg ccattttctc cctctgtctt cacatcatct tccctgtgtg tgtctgcac 235200
cgaatttcct cctcttctaa ggacacctgt catattaaat tagggccac cctgatgagc 235260
tctttttaac ttaattacct ctttaaagc cctatctcca aatatagtca aattctgagg 235320
cactgggggg ccaatccaga tttttttggt catccatttt ttttcttttc tgttgtctta 235380
tctattatat ttctctctg tgtgttttta ttctcacc agattagtcc atgacctaaa 235440
tggccgcttt tgctcacaac tgctcttg gctcaataag ctcactgttg tctagggttt 235500
atacacctca gctgttagga gttggagatc agatgaatgt ggtttatcgt ctgtagagtg 235560
aaatatggct actaagtgg gccattacag agccaatttg ggggtgtaaat ctagtatttc 235620

```

```

agctcttgga ctttttaaac tgcattctta aatagaacac tagtttcatt ctgagggggg 235680
gaaatataca tgcagaagac attaaggcct atgatgaatg tcatgttttg aacaacaagg 235740
gcagctcatt tggacaacag aaatccatct gcagggctta agagaatcct ttattttata 235800
cagaaaccga ataagttcca aataatataa atgttattaa agacttagaa tgagatagca 235860
atagtgcata gctttggcct agagtaggta ggcttgaaaa caattcagga cttcttttac 235920
attgaccctg gatttgtgga tgtctgttct atcataatat gtttttagaga ataaaatgga 235980
aaagcttgta ataccagaga gcttctattc ctgagagtgg ttgcaattct ggagaacaac 236040
ctcttgcaag tagcattttc cgtatagaca tttcttgccct gctggcccaa tcttaacttt 236100
tcatttttagt tcattttctca gttcagtgc tttagaagac agtgcatttt tcttttctgg 236160
actagggcag atggtgctgt cacttttgat tatctggttt tttttttaa gggaagtgtt 236220
gattagggag agcaagaaat gaaataccac cagattaaat tgagagcaga aattatacaa 236280
tcccaaaaga ggcaaatctg ttctatgttt ttctgcttag ttactatag tttatgtttg 236340
actttctaga tttcaagttg gatataat taaaagatcat ttaagatag cttttgggtt 236400
atgagtttgc tttgtttctg ctttctggaa gatatagaag atagaaatgt ttagatggtt 236460
ttctttttct agtcacattt aagtaagaag atccttgggt aagagtagct ttaacaaat 236520
ccaaaatgtt tggataattt ctactttatg ccactgaaat ctctcacttg cagtctagt 236580
gcactttgtg tcttgttact gtttggccat ctaatcttaa attagaatat ttaacaggtg 236640
ttccaaacca gaagtcacaa ggaagtggac aaagaggccc agaagatagc ttgaagagcc 236700
tcctgctggc tacatttagg gcaaatttag tgtccaaaaa ataatgatgg tgggtggagt 236760
tagcagattt taacacattg aattaaaata aaaagaatct gggttcaaga tactttgaaa 236820
agtgggaggg agaactaata aacatagaag gaataacaga attagaaaaa tcaccatctg 236880
gaaactacct gtaatataat gatacatgct agagatcatc agtatttact ataactgtca 236940
ggtaaaaggg cataatgtgc tttgacaatg gagaaagggt ttacacacaa taccttgagc 237000
aagtgaccaa actgagcatc acctaatagt tcaaacagca gtgtgcatgt tctcatgtca 237060
tacgatggga agtatatctg taaacaattc ttcccaaaa ttcttagcct gtatctaatt 237120
acgaggaaat agcatcacac tacagatagt gatataattc ataagaaaac tggcctgact 237180
gtcccaaaaa tgtcaacttt ataaaaagta taagggattt ctgttctaga ttaagagaga 237240
ctagtaaaaa cctgacaact aatgcatact tggctctcga ttggatcctg aattaggaga 237300
aaaaaaatta aagatgttat tggaacaatt gacaaaattt aacatggatt ttaatctcaa 237360
atttatctga ttaatgttaa atctgattgt agtaatgtgt ttttgtttat gtaggagaag 237420
ctccttggtc tcaggaaaaga aatgctgaag ttttgggggt gaaatgtcat gagatcaata 237480
actttctttc aaatggttgt gaaaaaacgt gtgtgtgtgt atatataagt agagatcaaa 237540
tgtgagcatg caaatgtagc aaaatgttaa taagttgacc aatctaggtg tttttctata 237600
gcaatctagg tgttttgcta taattatagc agcctgagct ataattgggt ggcttaagca 237660
acaaacattt atttcttaca gttctgaagg ctgggaagtc caagatcagg gtgccagcat 237720
atttggtgtc tggtaggtc tgtcttctg atttatagat ggcacgtttg tgctatgtcc 237780
ttgtgtggct gagagaagaa agcgagctct ctgagtacc ttataaggac atcagtccca 237840
tctatgaggg ctttatcctc atgacctcat ctattctaa ttaccttcta atgccatcac 237900
tttagcgcgt agggttttaa gatacacgaa ttttgggagg gcaccaagca tttagtccct 237960

```

```

aacagtgttc atagtactgc tccagctttt ctatagatta aaaatgtttt aaaatatgta 238020
ttttttacaa atcgagcaat ttcacataaa attttgcatt tctagattct ctagaaaagt 238080
gggagtgtct gccttacacc catgatacac caagaataac tgattggctg catagcagct 238140
gccccctca gatagggtga ggttttttcc attttccata gtccttacc ttcccttttg 238200
ttttatatac ccactttctt tactcattga tattacctgc ctagtggcta taggcatttt 238260
agtatgtacc cacacatgta acacttgcgt atttcttggg gtggtagtag gttgtgtcat 238320
ggatggtaat gactttttca tatgctggaa ctcttgagcc ctctggattt gatacccata 238380
tcaggtgatg agcttcactt ggctccttgg ccacaggtg agtatctagc cttattccca 238440
aataattcag tcatctgaga cataattaag aaaatgtgga tgtaaact gttcaaaact 238500
tgctggatag gagatataca tattaaaatt atctttcaga tgcaacatat tagaaattgt 238560
actctggatt ctgcctgtca gttggcacag tcttgcaaaa agtattgtat aagctgcttg 238620
aaaaaatgta atatggtatg ccaagtecta atgaaaaaac attttgtgga aacgtttgta 238680
gactcccatg caaaaagtag tgtatgaact ttaattacct ttgtaagttg ttctatcctg 238740
tgtttaagtg actactttcc tgttacatac ccaggagggg taccagctct tgctggataa 238800
tcatggctct gagccttccc ccaaaacaca agagcagtat ctggcagagg ttagggttca 238860
gctagcagtg aacagttcaa aaacacaggg aagaagagga aaggactggt gctagagtta 238920
atcttgtcaa gcaaacatat ctacctaata cttaatctgt ttttgtgggt ttgcatccct 238980
gtacaatttg atgttcttaa aaacactagc agcctttggc cgggtgtggt ggctcacgcc 239040
tgtaatcca gcactttggg aggccgagat ggggtgatca cttgaggtca ggagtttgag 239100
accagcctgg ccaacatggt gaaaccccg tctactaaa aatacaaaaa ttagccaggc 239160
atagtggcgc acactcgtaa tcccagctac tcagggggct gaggcagaaa aatcgcttga 239220
acccaggagg cagaggttgc agaaagccga gatcgcacca ctgcactcca gcctgggcaa 239280
cagagtgaga ctctgtctca aaaacaaaac aaaacaaaaa aaacactagc agcttttgtc 239340
cagttccatg catatacatg atttttacat tgtgaaatga acacaaagat ttttcttagg 239400
gaatctgaca gaaatgagca tagaatctta ctagtatttc agttcattaa agacctagac 239460
ctggcactcc atgttgcctc tcttattacc ccaggtgtta cacagcattt gcctgaagga 239520
ggccattttg ctgtgagggg gttaatgtga atgttccctg tagggcttga ctcaaatac 239580
aggcctgggg agtggggggc ggggggcggg gaaatcatcc tgtccagtga attccagaaa 239640
tagcaacaaa agctcagagg aaattagccc ctgttgtccc attgacattc tctggccatc 239700
tctcctgtcc agctgggcac actgcttggg aaagaaattc atttgtgttt ctctcctttc 239760
tcttaaggtt ccagaacctg tttggaacct aggccgctct tgaaaatatt ttcttgaat 239820
ggaaaagcaac tgcatgcaac atatgtttac ctgctgctg ctttcttttt cgggtgttgag 239880
agtctggtat tcccttggct acctttcagg atttcaaata gagtaaccac ttcaccagcg 239940
aaatggctag caagatgttt atctttgtat ttttagcatc aggatgattg atatctcaag 240000
atatctctgg aatagttgtt tttggagatt aactgcattg tccttatatt atgcaagttt 240060
attcttcgtg ttgtgatttt actcatcttt aatatttcta tttaaaacca ctaactgtgg 240120
atcatagtca ctaaagggag agtcttagat aattaattct tcttttgtat gcgcttattg 240180
attcctcttt ttttcccagc ataagtaata tttcaaaatt gaagatggcc aatattcttt 240240
ttctgagtag aaaagcaatt caacacatat tcgttgttgt tgttgttgtt gttgttgttt 240300

```

gtttggggac aagtctccct ctgttgcata ggctggagtg cagtggcgcc atctcagctc 240360
 actgcaggct tcaactcctc gggttctagc gatcctccca cctcagcctc ccaagtagtc 240420
 gggactacag gcatgtgcca ccaagcccag ctaatttttg tatttttcgt agagatgggg 240480
 tcttactatg ttgcttaggc tggctctgaa ctctctgggt caagctttct gcccgcttg 240540
 gcctcccaaa gtgctgggat taccggcatg agctaccaca tccagccatc aacacacatt 240600
 cttaatatg ttttcttttg tccccattca tgcttatcag cattagtagg cattgactag 240660
 gtatctagct tgtccttatt attgagtagt cacatttttc gttttcacct aaaattatatt 240720
 atttctgttt cttttttgtt tgtttgttt catattgatt gtttactgtt ggcttttaggc 240780
 ttcttatctc caaaatgagc atgatcagaa gccacacatt ttccacgccc ctagttcatt 240840
 atacatgatt tgtaaagag agtagctatg tcagctcctt ggcagatctg agaaagcata 240900
 tgatgttatg acagggatat ctacaaatga gccttggtga taagaactag acagaaggtt 240960
 tagagagaaa taatgttgat gtcacccat tggaatgata gagctgttac aaccagaaat 241020
 acattctata gctagtagct aagtgtgtag ctctatttct tttctaagaa ggaaaaaatg 241080
 tgaaataaac caaagaagta aagtatgttt ataaaggagg atattttaat tagtttaggt 241140
 cttaacagtt attcaaacag tctgaactta ggtttctttt tggagcaaac atgaaaacca 241200
 ttatttatgg aaaatttaaa tttcacatga cacatcttcc ctctatgtgt gtgggttttt 241260
 tctttctttc tttttttga aaaaaactat ttgctttgct tgtgtatttt tatttcaacc 241320
 ttctttttac taaaaatgct ttatttcctt ggtgtaggag atttgttttt agggaaga 241380
 aagacttggt tctctaagct gagccccctt tccctttttt agcatttcca gataggctgg 241440
 ttctcagctg accatgtttg aattagaggc gcccaactta gtccttttc aaaaactttc 241500
 ctaccattaa atgtgcctat atctgcaaaa caaatgccc ctctctgtg tgaaacacta 241560
 tacaagagtg ccttattatt attatttata tttatttatt tatttattta tttatttatt 241620
 tatttattta tattttgaga cggagtcttg ctctgttgcc caggctggag tgcagtggca 241680
 cgatctcagc tcaactgcaac ctccacatcc cgggttcaag cgatctcctg cctaagcctc 241740
 ctgagtagtt gggattgcag gtgtgcgcca ccacgcccgg ctaatgccat tcaactgcta 241800
 agaaggcagc aatgtagaaa atggttttca tgttcattta cccagccgt ggtcaccagc 241860
 aaggtggaat cagggtgaaa atggtttcga tctgtttact tacgttgtgg ctgcttcagt 241920
 gtaaggaata ggaaatatag ggtttgctta catgattttg tctaatttat ttactgcaca 241980
 ccagaagggt gaaaatagcc cctgagaatg agaataaga aacttgtcct ctgaccttgc 242040
 accagaacct tgcatttgtg cacttctggg gcaatctctt gtttagttgg ctcacaccaa 242100
 gtaccaagtt cttaagagg gaagaaacaa aaaccagaca gagttttcag cttgaataaa 242160
 agaagctacc cttaaaggcaa atcagcagaa tttttttgtt ttgtttgctt atttttgtga 242220
 ggggatcagt tattcttctt tccttcacaa tatgggaggt gtgtgcatga gagagacagg 242280
 agaaaaaaaa caaaaaaaaa gaaaacatgc cacaaacaa tagcttcac caaactctga 242340
 catacactct ttgtacagct gggctctgaa actgttttat ggaaagagt gtcattcagt 242400
 gtacttcgag gcacgcttag atcatgctta gggtagata ggccaagggc ttagttaact 242460
 cgcttattta ggtcgtagag atgtgaattt tgacattttc atactagact gttagctttc 242520
 gtacaagagt tgatcgttta tgtgggaagt aactgtcact ttaaaacaaa ttttattttt 242580
 actcttgttt ggtgcaaatt gtgtccctgg gttttattta ctttttctt cttagtctgt 242640


```

ggcagcacga atggaaaagc attacattaa ataaatgtaa tataagtgca tttttctctc 242700
ttttttccca tatttacaat tagaagcttg aaagaagaca gaattccatc tggccttggt 242760
accacgtttc tcctaacatg aggggctagt gaccagacac gatagggcag tgattgcttt 242820
gtcactgcct tccctcccca tgccctgccca tttttatfff tgatcttctc agaatccttt 242880
gtttatfttg ccccatfcaa ggcccactff ttaaattctt cttttcttca tatacattcc 242940
cagcagatag gtggcctftg ctctattcat ttgacaacct tttctaagtt aaaagcaaat 243000
aagaaaaacca acataaacct tcccatagga ctgagcagat ctctctgct gccttctctt 243060
tctcccatcc acctcaaggc caacacccca ccagtatcaa ccccatgfff tctttctcag 243120
tgtctctctc ctcaaggatcc ctagatctct attaactctt catgatacag tcaaaggfta 243180
tacttgctff gggaccatgt attagacttg tggccctgga gaaatcacat ctactctctg 243240
agcctcagtt tcctcatttg ttccttatat tccttctca gtcaacaaag acacctatgg 243300
gtgggtgtcc cagcaccgga ggtgagaacc atgatgagct aagtaagcat aagttcctat 243360
ccaccactgt gaaaatggagc agagaatgtc catcatgcag gggatattgt aaaaattagc 243420
aaggatgatga tgcatagatg agcacgtatg taggtgctca ggaaatgtca gttttcgtga 243480
ttgtaatcaa aggcaaacag agaaggcaag tcctgacctc tctttggaag ttgtttttat 243540
ctcaggagga cttttccctt gtatttctgg cttttacctg aaactcattt tttttgactt 243600
tggacagatt tttttattat tattcctfff aatctagcct ctttctctat tttttctfff 243660
tttctgttaa aagcataacc atttcttctg tcatgtgtat ttgaaagcaa ggtgggaggg 243720
ggcgttccag tttttgtggg acaaagcatc ctgttttaac tctgttctff tatagtgtat 243780
ttctagtga tagtcctgag gatgttttat ttgcagatcc ctttaattct tcccttccct 243840
gtgtgttgag taggtgatca tccctgttct aaacttttat tactccaagg atagggtctg 243900
acttgttgcc tttctaagat aatctaaatg ctttcttcat agcaagagga aacagttacc 243960
tccttcagct ggttgfttga acataactat gtgagtgttt gaaaccatag ggtccttcaa 244020
attctacaat aaccagaaat tgagaacatt ttgtctftaa caactgaacc agttcattta 244080
ttgtgactat gcttatgttt tgftttgatt tttttctaac cggcagttat ctcttgagat 244140
tatataatat ttacagftta cttagcaggg gcttcagaa aatgtgaggg tatgtcaact 244200
tttgatftat ggatacagtt tataccttaa catgaatata tagttataaa tgagcttgtg 244260
acattgggtc ttttgaatgt gggttttctt ttaaaaggct acagttttca aaaccatgat 244320
attaccacca gcccattftg atttctcacc agactaaagg tagcacgtcc tactaaacag 244380
aacgcaacag gaaaaaaaaat aaggaacaag tcctftftaa gtttgagtg gtgccaacta 244440
caagttfttg ttattftfta tatagactft gttcattftat ttagtcaaga agcgtctgtt 244500
gagctftgca catgtagggc ctgtgctggg tgctgcgggt aaatggtgat tttgtcctag 244560
ggcaggggtc attgaactat atagcctccc tgtagcctgc ttttgatgg cccacaaact 244620
aagaggttg taaagftfta atgcgttatg aaaacaaaca aaaagcaaaa tatgcaagag 244680
acctatgtgt ggctcacaaa gtttaaaata tttatttgat tctfttagga aaaatttgcc 244740
tactccggac cctgtggtgt ctctgtcttc ctcaatctta tgfttgftag taagaaagac 244800
cagaagtaag caagggaaca aataagaaag atagttctft tcagattftg ataattgata 244860
aggaaatagc atgtaagagt gacagaaatg aggctggtgt caggtgtagc agttaagggtg 244920
ggattftftg aaaagatgaa tftaagatta aacctgaaca gtaaggacaa acaggtctgt 244980

```

```

gcagagctgg gcgtattaac ccatctctca ctccttaggt ccacatcccc cttcccctcc 245040
aagtgcctgc ttattataca cagagctcag ctaaattgctg gttcctggaa gactatctcg 245100
aatgccctct tttgggttac ctttactaca gcacccatca caaggcactg taattgccta 245160
tttggtttca ttcttcccac ctccctccac tagacttgaa atatcttggg ggcagggaca 245220
tatgtcttag tgatcatatc tcgctagcgt ttagctcata aactaggtta aatggagtct 245280
actctaaact caaaaattaga ttccatcaag cccactgtga aaatcaagaa gatcctctaa 245340
caagttgcag attcttaagt tctatcactt atcttttttt gtacacatcc ttccccctc 245400
gtactctctt ctccaagcac tattctttca tttctaaaac ctaattattg cccaccccc 245460
aaaacatgcc catttccctc gtgttattaa aaggcacctg catccatcca gttgagcaag 245520
ccgaaaacta ggaattagcc ttggtgtgtc acgtttctc acccttacc atcacatcca 245580
gtccttcagg acccacacct cctcaactag tctgtctca ctgtctctac tctcagctct 245640
agcccaggcc agctctagcc tttcctttgc ctgggccact gcagcaatcc actgactggt 245700
ctttctgttc ccttgcttac cttccatata tccgttggtc acacagaaga caaacacatc 245760
ttttcaagct caaaagaaga tcatatctgt cctttttctt agacaccca gtggctgccc 245820
gtcgaacgta aacatgtgaa cttaagtaaa caagtaaaaa caagtaata aacaagtaaa 245880
aatacagctc aaagatttga gctcacagcc ctgaatggaa taaccattgt ctcttcaacc 245940
acatcttatt actctcagtt tccaggtaca ttggtccctc cacttgcctt tcttaggacc 246000
ctttattctc tgttgctgt taaattatta aatgttaaat ggaaccccg gttaatctcc 246060
ttaacatcgc gaacacttaa aactatacag tgacaagtca gtgaaccata gtgaaactcc 246120
attccccaat gacacctca ttcctgattt tcctggtaac atttgtaata tcaaaaattc 246180
atgataacag gcaactgatt taatgataac tccagttaaa aggccttggg gaaggaactt 246240
gacaacctta ctgccttcta atggattgt ttttcctttt ttctttttcg caatgcagaa 246300
tatgagttgg aagtaaagag ggtgcaagac attctttcgg gaatagagaa accacaggt 246360
tgtcttctgg atttctcagc ataaatgaca ctttttaaag tatttcaaat gtgctttttt 246420
tttttttcca ccacacagta ggtaaggaaa agggctcttt ccctttgcag attactcatc 246480
aactatgaaa tagtgttcgg ttcagttatt aatggaccat gagacataga acagtagcct 246540
tctgtgtgta gtcgtaatct actgaaatgt cttctttatt taggtattct gaatgcaatt 246600
agatatctct tccaaagatt ctttttttct tctctctttt ttcagtctac agttttcttt 246660
tggtagtttt tttttaacca tataaatgta gtaataattt ttgaaaacct cagtaatccc 246720
aagtattttt ccaagtaaac ttcaaaaaga tatttaata ttagctgtga aaaataagtc 246780
cagaacattg ggtgcaatgg caagacaaaa aaatggtcga agtggtgagg ttttgatttt 246840
gccagggtgt ttgaaattca agtgaaaaac tcagaatgtt gattcagcct ttcatctgag 246900
attagagagc cagagttctt tggagtattt tctagctgaa ttggaaaacc ttgattctgc 246960
atgtgtttca aatactgagg ctttttaaca gaagagtcca aacatgcctc aggggtacata 247020
gttgaatttg acaacctaaa agcttgaggt gtgttgagg acaggcataa taaggcactt 247080
gtagaggagt ggggtgttgc cgttgggagg ggtgcaggga gtctgtactt actctggtga 247140
ggagcaggct gccactgggg gtttttgagc aaagaagtta tgtaatcagg gctgcatttt 247200
cagaatgatc aaacagttgg tggatgagtt ggagtgaaga gaagatagat gcagggaaga 247260
gcagtgttag aatctgctac ttagtcctg gtgaaaggct atgggagtca aaattagggt 247320

```

```

ggtgacatct gtgtggcagg cagcagggga cagatacaag agccattcca gagatagaat 247380
acggcactat aacctgttag aatagatatc aaatgtcaag gataactggg ctttcgggtt 247440
tggatgcctc ctctcaggaa ttgcttcctc taagatgcct tcctgattgc tgtccatgcc 247500
catcaagtgg gaggctctac ccccagcttt gctgtgccct tcatggactt ctgctactgt 247560
atttaatatata ttgtactgca tctacttggt tctgtgtctt tcccgggtctg tggtttctct 247620
aggacagggtt cacagctttg tcctttttgt atcttcagtgc ccattcttgg acatgctgag 247680
tttgtttcac tgtcagggac tctggaaaaga tagatacagc gggcgggtcgc aaatgtctgg 247740
taggccgatg ctgaggagcg aggaggaaca agatacaaga caggagatc acatgcatag 247800
caatgatact tcatgttgta ggattggatg atagctttgc agacgggggt gcagtataag 247860
ggagagatca gaaaaggtgt gagggcagaa ttatggaaaa agcttatgtt tgtagcatag 247920
tagaaaagaag aaaaatctgt aaggaaaaca gaggagtcag agagagaggg cagagcagcg 247980
ggttcactca tggcccaaaa tgtagtttca gaactccata gtcgcttctt aatcatgttt 248040
atgcacacag tgctgttcct cagatatcc tagtactgc tctgctgaag aagtgcaga 248100
atctctgttt ctgtgggtg agatggctct agcaagacaa aagccatatt tagattcatt 248160
ggtccttttt ctgtatgcag tatttcttag gcatttaatc ttttgagggt ttagggcagg 248220
gtaataggct ttttgtaagt agctgtgttg taaaatataa tagggtaaga gcgtcatctg 248280
agaacttttg cctgtatcat ttggaaacaa gcattgcttg gctacagaag cacacagatg 248340
ttagctctat ccatgacagt ctggccaggc cgttctgtac ccatcgaga gaattggctt 248400
ctcagagcct agtgccctta ggcccctgaa tcatgtagat aactcccctt gttttcattt 248460
ggtgctcact tagtagcctt ttgagaattt gacttccttg ttgccaacag agagaaagta 248520
tgtgaggcag gttgacagtg ctatctaatac taccagatac ttctgtttct cattatgaat 248580
caattaactg gcagctgat tgtatataatc tgattccata agtcttatag ttgacattc 248640
aagtctgact ctggaatacc ggctagattg tctgagtcac tgggcagggg cctggacctg 248700
gcgaattcac tcaggtaaata gccacaagggt aacagcctgt ctgcagggcc agccagctta 248760
actggactct atcctgtctc attaccctcc tccaaacctt tgaagtggac tttgaatgag 248820
aaattcagtc aaaagataac atttccatat cagcgtgggt tagatgggca cagacgtagt 248880
cagtatagct gaagagtttc cttagtccta taaagctgga gttgttaatt ctgtagcata 248940
agcagcacat tatctttcta ggtttgaaa aggcacgttg agaaactttc tggaggtgag 249000
tagaaacaaa gcctcaagta gttacacact ccagagtcac gaaagatctg tagatccgca 249060
tttatatctc atgccctttt taacagtgag gcttgaactt gccaaaatac tacaccctac 249120
cttttaagca gtttgatgaa aatcacctga taggaagtgg gcgtctctgg acacagttgc 249180
tttgccaaca tgtgggtggt ggttggtgct aaccacctg catgtctggt tctctggatg 249240
gcagtgtaag tgtatccagg ttgcctgggc tgaaggcata tcagacaagg ggagtttgta 249300
tgaagagtgc catgcttggt cgtgcctcct gcttttgac atgactaaaa caacttctct 249360
ttctctccac ctatatgttt cctattgctg ctgtaatgat ttaccacaaa ttgaatggcg 249420
taaaacagta caaatttatt gtcataaagg tctagaggcc agaaagtcca aaatgtctct 249480
ggctaggctg taatcaagggt gttggcaggc ctatatttct ttctagaggc tttgggacaa 249540
aatctgtttt ctgcccctt ccagtttcta aaggcagcct gcaccccttg gctttgtctg 249600
caaagtcagc agccatattc ccccagcttc tgcttccatt ctcacatgcc tgtctctcac 249660

```

```

tgtcctgcct cccctctttca cttataagga cccccgtgat tttactgggc ccagccagat 249720
aatccagggtt aagtcctcccc ttcacgagag ccttaacttg gtcacacctt caaagtcctt 249780
tttgccatat aaggatttca taggttccaa ggactaggat gtggacctct ttggggacct 249840
accacactcc ccttctgata ctcataaatg ttattgcctg agacagtcca ctgtttcttt 249900
ccagcccaat tagttgttta tgcagtttct gtctttcctc ttcgtaccac ttttctctct 249960
gaagttcttg tttgtgattg tgtgttattt aacttttcgc tcctaatacc tagcactgtc 250020
cttgggacat agtgaccctt taatagatct ttgctgaata actgtgtggc tgtagctggg 250080
ttctggccgg gggcacaaac gccggaagtc tgaccagcct caggatgtgc ctccgccagc 250140
gtgtaaggca gcagccacta gagggaaggc ctgtgctttg caatctggca ctctgggttg 250200
ggacttgcat tggctgttac ctgtctttgt gaccttgggt aagttacatc atttctttgt 250260
gcctcagttt cctcatcttt gaaaggtagg ataagaaata ctacctggga ctatatgaga 250320
agtaaattat atacttgga tgcagtattt atagtttgta gcgtatcact aagcaaaagt 250380
gaaacttctg tgctcttaca tgggaaggaa gaggtatcag gccatctgac agggaaagaa 250440
gcagagccat gcaaagttgg gagcacagtt gtaaaaagga ttatttaatt ttgtgttctt 250500
ttcagccaca actggtagca cctctaaata aaaggcatat attttgcttt gaggttttgc 250560
agatgatttt atttaggtgc agaacttggt gattccagtc atctttctag gactttgggc 250620
accctgaatt gagcaagtct tttactcttc agagaccag ctactgcaa ggtccaaata 250680
cttagtttca tttaaatttt attaaaatgg tatacaagta tactaggtat ttatcttggg 250740
actggaacag ttaggtgcta tggggacttc actggtatag cctccacat gacagagcaa 250800
taagcctgat attattctga gtggcttagg aattagccag ccatctcgag cctaattgtg 250860
tctgaccttc tctgggtggg gtgctagatg tagtctccca tagactggtg ggctgtttat 250920
tttcaggata taaataatgt aacctggaat tgtggttctg cattgtttcc atccgcgaat 250980
gttttagcttg ttggaacaat tgatttgcg gttccagaag cgagtaaact gacctgcgag 251040
gaacacttcc cctgtaagaa gcaatccctt gaaagataaa cagtagtgca tctgggagca 251100
gataggcggc tcttagcact tcaggaatca taaaacaga tgactgtgaa attcttagat 251160
ttcagtatcc tttttcttta accttttctt ttttcattta ttttcctttg tgggtggtgtt 251220
tctcatgatg atcctttaga agtgaagcca gtatttgtgt ggtaatatat ccttagtgta 251280
ctctttaatt agatcagtag gcctcccaca tagttcaatc caaaggccag agcaaattta 251340
gaagctacca atgtacaagg aaatatTTTT gaacatgaaa gaaacaattt agtaactatg 251400
agaataaatg gtgtttctga tccaagtact atcatttgca taataataaa atatcagaaa 251460
aaaatggaaa attttacaga acagtattaa aatattggga tgaacaggag agaaggtgca 251520
aggagaaaagc aagctatgga ttacgtatca aatagctaca ggacaatgcg gttttataat 251580
ttccttatac acacacatat agaacaactg ctttcaagtt ggaatctaca tttataaat 251640
agacgagtga tttctaata gtatgtgacc atttacaagt aggaagtaat tttatgagtc 251700
cttcaagggtg ctcaaaagca gtttagttta aataattcat atgcagactt aactagtaa 251760
cctgtacaac agaccctttt atagcagtta ttgaactgct tttgaattgg aatctacatt 251820
taataaatag acaggaatga tttataatta gtatgtgacc acttagtagt aggaagtaat 251880
tttgtgagtc cttcaagggt ctcaaaagca gtttagttta aataattcat atgcaaatgt 251940
atactagtaa cctatacaac agaccctttt atattactat tgcagaaaca aatgtcagat 252000

```

tgcacctcgt ccaataatth tataactaca aattaccctt ttatcacca ttacaaagga 252060
gattgacttt ctagttacgg taggttaatt aaatatcagg aagtcagttt tatggcttct 252120
aaactttttt gaggggtgag gggaacaaac agccatgggtg atcactgtga tgatcagatt 252180
agccgtgccc tagttaagct tgttggtcac tgctggcaag aaagtttcag cacaggcaga 252240
cttgcaatgt gaaggtcata tatgagtgtt gttgctctga aatcggcatg aacctagata 252300
gagttcctag agttccaaat ctctcattaa ggcattacct cccaggacac ttggagtaaa 252360
tatgtctagt gctgagaatt caccttcaag tgacattctc ttgaaagaca gcatgtcagt 252420
ttctggaatc agccttaagt ggaaacaagt tccaagtcct aatggagact aagtgatctt 252480
tttctcctca ttccattgcc taaacaaggg aaacctcggg ccaagagtca gtgaaaggga 252540
gagagcagga ggacaagaag gatttggccc cagaacatca tcatgatctg ggtgtcaggc 252600
tgcttagctc aaggaaagaa ttcacagaaa ccgctttcct ttgagaatga tgctgagttc 252660
tcaaactgca tttctgatag gctggcacat tggaagaatg tatttcaca aacacctgca 252720
ttgcatgctg atgacagtgt acatcctgaa ggcttgctta gggactctag ggaaaaagtg 252780
aatgttattt tagttgatgc ttcaagtgtt gtatttctct gttcaggtaa ataataatth 252840
aaccaagtcc taagggaaaa aagtaaagtt gtcatactg acataaaagg tagagtttaa 252900
agggatgtga cttcatggat atttgtttg tatctagaac gttggcattt gactgagcta 252960
ttttgagaca tggttatttc acaccacat tcatggaatc agtgttactg tcttctgtgt 253020
tcttgggtgc aaagcagcca cttatcacct tggctgagt ttttcagta cctaatgagc 253080
ctcctttttt tccaagaaac caaactctt gtaacaaatt atctcccacg ttaaaaaata 253140
aatatgatac ccaataacct aggattact attaatggt tgtgaaggaa ttgagcagat 253200
atactgttgt atgttgaaa tgctgtctta aaatctaggt agagaaaca cacacaaata 253260
accaagtaat gctctgtgta atggaatat caccaaatgc agggatggaa aataggcaag 253320
agtacaaaga agagtgggtg aatctgacag tgcagacgt acaggaacct gtccagaatc 253380
agtctcagaa cacttaagag tccctctgtg ttcagtatat ctgcatgag gccctcatg 253440
tgctgtctc tcttcaacag gttggggctc ctgaggcca aagatcatal cttaatcatc 253500
tttgtatcca cagcccctca cagggtgagg tatgaccatt aaatgagtaa acaaaggcag 253560
catttgaagt gggccaaga gaagtgggt aaaaccaagg aagtaggaga gttaaaagct 253620
aagtcacagg ggtgtgagag agggcataag agaggccagc atcctggagg tttggtcaca 253680
gcatcgttgt gcagatgggt tggaggggtg gggaagagga gctgctagtc tggagctata 253740
gcagtcttcc tcagatgttt taaagagatg tgtaatgcaa gcctaccatc ttctgatagt 253800
ctgtgtcaga aactcagact atcttatttc ctagatttt ttattcaaca aacatttact 253860
aagcaaccac tgatcacagt tgactatgac ttggattctg tccttaggga gtctcaaagc 253920
ccaaggagg tagacaaagg ccataatgtg attagcaatt atagcagtat ccacaagggt 253980
ctgtagaaca tggaggagt acaatgcatg agataattta gagaaggcta ctgggaggta 254040
gtgaggccgg gctgcggtct ttaaggatga gcaggagttt gactaaataa ttggctaaat 254100
atatcatgat attctattta tatggaataa atagtacgaa gtgatctcca ctaaaaatgt 254160
agtgaaggac agactgaaga gagactctgc attcattttc catatttatt atttgtattt 254220
caagtattta ataattccaa taatctttat gtagatccta tagtgacaaa aatggaagaa 254280
ggaaaaaaag ggactgaaca gtttacctgt ctccatctac agcctaataa tctacagcta 254340

taaagtccttt gtgaacatta agcttttagcg tctgtattgt cttttttgtt tttaatatgc 254400
tatccagacc aatatccaga tagcaataga atagccttta gacagttaca gcgttaaagt 254460
tttgtcctta gatttatctt aaataattag atcatatctt aggttgggtt tctccagaaa 254520
tggtctctaa aaccaagtat tgagtgcata tagtttatgt ggggatgtga tccaggaagc 254580
cctgggttaga gacaagggaa ctgagacaga gaagggaagt gtattagtct gttctcgcat 254640
tgctatgaag agctacctga gattgggtaa tttatgaaga aaagaggttt aattgactca 254700
tgcttctgca ggctgtacaa gcatggctgg gaaggcctca ggagacttac aatcatggtg 254760
gaagaaaagg ggaagcagac atgtcttacg ttgcccagaga aggaggaaga tagagagaag 254820
ggggaagtgc cacacacttt taaacaacca gatcttctga gaactcacat caggagaaca 254880
gcaaggggga agtccaccac aatgatccag tcacctccca ccaggccctc ctccaagatt 254940
ggggattgca atctgacatg agatttgggt ggggacacaa atccaaaccg tatcaggaag 255000
gaagcccatg cgggggtcta tcaataaaca ggttacagct gtggccagtc agagcttagt 255060
ccttataaac acctctggaa gatggagtag attttgtaaa acatgcctca gagtagtatt 255120
ttaagaaggt tctgggtatt ttaagtccca gagtcttcgg ttcaaatgaa atctgaagca 255180
gaggctaaac caaaagtatg aaagcagagc ttagagaggt gaaacatctc cacatctata 255240
atgatattaa tcccatatca gcctggtcct tggttccagt tttccacca ttgggttctc 255300
ctgggaatct gcaggacttc agcgggtatt gttggaaagg tattagcttt gaagaatgat 255360
ttgacaccat gcaaggcttg aaaccagatc aaagtacctg tgggtatggc ttcttccaca 255420
taatgtagaa atcatacatt cagcttttta cttacgttaa aaaaaaattc cctcgcatga 255480
cattatctta ctttatggag gacagaatgc aaattgcact ggatttggat gaaagtggc 255540
attataagga cagatgttgc aagaaccata ttttgatac caggactttg aaagagagca 255600
ccatataaga tgtctttcat tgtaattaaa ctagtttacc ttggattaac tgtgagccag 255660
ttttatgcca ctactaataa ttctgaaaat gtaaaatgga tttgaatact tttgtcccat 255720
gtttttcttc ctgaggtttc taatattcag gcaagagcag ttgtgtgtgc ctgggctccc 255780
cctgttggac tttcctgttg accccacagt ggtctttcct tcccctacag ttacgaggtg 255840
gccttatcag acaaaggacg agatggaaaa tacaagataa ttacaggtt gtgtatgttt 255900
ctattgtttt tctttgctgc taaactgtaa aattggagtt gtgaaggaaa atggaaaaca 255960
aaggaaaacc ttataggctt ggcaaatttt ctttagttt attttaagat ttagtaataa 256020
ttataatgct aagaattcat tgtgtccaga gtaattctta tttggaaatg agtagcatag 256080
agctatttgg tatgggtgta atacatcact tggttatatt tgctgtcagt agagtattaa 256140
tgaaaacttt ctgttaatgt ctgtcggcaa aaggcgatta tgacttttag tttttgcata 256200
cattgggcga ttataagggt accgcttatg ttttagatcc agacctttt gtagccctgt 256260
tttttaaagt tctacaatat gtttccttct gttttacct atttcttacc ttgcacaata 256320
gtttccagcc tgtaataaaag atactttaaa acatttcatt tggaggcctt aagtgggtcaa 256380
aagtttggct cacagggaag ggattagccc cttctgctct gtggactccc aggtattgac 256440
cattcaaaag atttataact gtgttctaaa tgtgagaaaa attttagggc cagctcttct 256500
ttctttgtaa ttactgggta ctgctcagat ttgcagagca ggaaatcaga aagttagttt 256560
tgttttaact gcttgtttgg cctccctgtg agtggacct ccagtgactg cccgtgccc 256620
gggtaataat gtgtcacac aatcctcact ttttctgcca gagatgtttc ttttctccc 256680

tattttcctg ctgcatcagt gccacagatg cgtatctccc ctttcctggt cctaattctt 256740
gctccacaga cagtcttcct gacaaggaaa gagggacaga ggttaaggac tcaagccctg 256800
tggtctgtgt gtccctcctt tgctaccag gctacctcca ctgtctcttc cctggacgcc 256860
ctcaggagtc tcctgcaggt cttccacccc cgactcttgc tcttctacaa gcttgccctac 256920
tactgcaga aacaaactca ggccagatca ctgcccttct gataacactc cagggattcc 256980
ccactgtatt taggatattc ctaactctgg ctcatcaccc ttttattcta gtctgaaaaa 257040
tcagaattag tagcaacttt aaagaaatac agagtgccat gtcccccatt cctggcaagg 257100
aacagatgca attgaccctt gaacaacaca ggtctgaact gcacggaccc acttatgcac 257160
ggattccttg tcagccacat gcagaccaga acaatattca cgggatatga gacctgtgga 257220
tatgcagggc caactgggga cttgagtatg tgtatacgt ctgtgggggt ggggtcctgg 257280
tactgattcc ttgtgtatac tgcgggacaa ctgtggatag agtcttttca tgcaagatga 257340
acattggtgg caggagctag aggtcacgt gccagagag gctcagcagg taacatacat 257400
gagcaaagt gaaaggctga aaatgaggtg aacaggagag ctctgttgc catcgaaagg 257460
aagcagtcac cactcagcct aagttgattg ttgctaaaat ttgctgattc tttgaatttt 257520
ttttcaaaag atgtgaaaa tctgaattat tatacaaact tccctgttat taaattaatg 257580
gaacaaatgc aagatatatt aaagatacaa tgtaggccag acaacagagc ttcaggcaag 257640
gtctggacac agcttccagt tttcaactta aaaccagcc ttttatttgg aatagtttca 257700
aacttataag atgtcccaa aatagagaaa tcaaggaata cctatatact ccatatccag 257760
attcacttgt tattaacttt atactctgct ttatcatttg aactccttcc tcttttctc 257820
tttctgtcct caatccacat tttttccat aagtgttttt tttttgagac agagtcttgc 257880
tctgtcgccc aggttgaggt gcagtggcac tatcttggct cactgcaagc tccgcctcct 257940
gggttcacgc cattctcctg cctcagcctc ctgagtaggt aggattacag gtgcccgcga 258000
ccacgcccgg ctaatttttt gtatttttag tagagacggg gtttcaccgt gtagccagg 258060
atggtctcga tctcctgacc tcgtgatccg ccctccttgg cctcccaaag tgctcggata 258120
acaggcgtga gccaccgcgc ccggcctttt tttcataag ttttatatgt aatggtccct 258180
tactacaaaa tacttcagga tatttcctat aagaattttt ttaaagaacc acagtgtaat 258240
tataacttca taaacttaca ttgatattgat acttttatct gttgtctata ttccagcttt 258300
tgtcgcttgg tctataaata atgcctgtta tattttgaaa aattgggcag ttttcacccc 258360
ttcccgcgca ggagctagtc tagggtcata cagtacctt agttgtcatg tctcttttagc 258420
cttctttaat ttggaacaat tccacaatat ttcttatact tttatgacac tgatatTTTT 258480
gaagaacaca aagtaagtca catgcacaca cacctttaac ctttttaaaa attttcaata 258540
gaacattcct tatttttggt ggttacttcc tcatgattta aggtgaggtt cagttgcaac 258600
ttttgaggac ataaatggtt ttattttatt gaagagagct atttgttcgg tgcattggta 258660
agtgaggaag tgagattgtg atttttctta agacagtcca gagttgagat aattgaggtt 258720
cctgccaaagg taagtgtgga aagtgccttc tgttaacagc tggatatgatc atttttattc 258780
atttgtttgt tcattcattc atttgcttac ttagttactt atatgtattt actcgtaaga 258840
agtataaga tcttttagaa ttttattagt aagttaacca tgccattttc gagatctaag 258900
atggcatcat taaaaagaac ctgattttct agtcccaaac aaataataat atcaaataag 258960
aaagtttatt tctggtttat ggtggaatct gacataatag ttcatgaatt attgtcagta 259020

cattactgga cacccaaatt ccaaattctcg tttgcttttg aaactggaat tagcaactaa 259080
tgaatgcttt ttctttacag tggagaagaa ttagaatgta acctgaaaga tcttagacca 259140
gcaacagatt atcatgtgag gtgagttagg atataagagc caaactgtat tggagaatcc 259200
agggtggctaa agcaaaaaca tgtactccct ttttaagtttt tgggtgaatgt tgcttacctt 259260
gctgaaagtt gtagaaccat ggcttatggg ccattcattg actctcaaga gcatcgtaac 259320
tggaagaca cagaagcgt tctgtgaaca gaaaagtagg tgtaaacac tgaaaatcat 259380
tttaaacatt ttaaaaagtaa ttttacatgg tcttctaaga tctattggac tatggtttaa 259440
cagtttcttt ctgtaaaaaca aatgaaactt ttgtcaccat gggcatatca ttgtttctta 259500
tagaccatca tataaactgt ttattcagac caaatgactg aagaagccct ttccatgttg 259560
caagcacacc gttagacctt aaaagctggg agattttgaa aaagacaagt aatacaagca 259620
tcaaattatc tctgatgaga attaaactcaa tttggctaaa cagttaacce atgtggcata 259680
gtatgtagcc tgaaatctct cctgtgattt tctggaatct ctactgtgac tactctggaa 259740
ggtagggcta gcttatttta ggaagaaacc cagccaacca cagatctgta aggaggaaag 259800
tgttatctga attttttaga gagaccatct gattatttta agatacatcc atctatttat 259860
ttgccaataa gaaggctctga atatgacca taacactaaa aaaacttttt tttaatcttt 259920
attttatcta atatttaagt tccccagaaa atatagtttt atttaactgg atgtacaaca 259980
acacattggt tccctttttt ttttcaatta tatatgcata cataaagatt gcagaataaa 260040
attgtaagca tgaaatatac atctattact atactttcca aaggtttaatt tacatcatga 260100
gtttctttgt gatttcggga tgaggttgga ggcaaggtag cctagtagga agagcgtata 260160
tgaattacca ggaggcttga gtgtgagtct ggttctgccc tgaacgggct gttttaactt 260220
tggtcaattc acatagaacg ctctgccatg attttctcag ttaaaaaaaa ggtagtaaag 260280
caaggatgtg cggtgaggat gtaatatctt attagctgca taagttctta aaaataagtt 260340
taaagtaatg tatatcagag taagttgttt tgttttaagg cataaagtgc acatctgctc 260400
agctatcata ttgttttagat gagctctctt gcaaccatct cctcctgttt aaatcaaac 260460
tttggttttt gagtcaatta gcttccgccc aaacgtattg agcttttcac acactctgta 260520
caagaagatc tgtgtaattt gtgaagctaa gatgataata gaaatggttt aaccattatt 260580
caaatggtc aatttaacaa caaaccagaa atgtaaaac cagaaaatgt aaaagtcag 260640
taaagtgtat ctattattca ttgtaacat atgtttcttt ctgctccgtg ctttaacagt 260700
ttattgttcc tgtggttagt aaaggtttac tttattaatt tctgctcat tcatgagctt 260760
acaatatcct ttttaagaaa cttaaagtgt atgaagagtc ttctctttat ttaccatcct 260820
gtctgttggt ccatttattt tttttttaa cccttattac aaagggtaaa tttgagaaca 260880
cttgctcatc agctattttt accgacaaa cctatgaaca tcttgaactt ctgggcagat 260940
agaatagtta atggattccc caaaaggaac aggatgggag catgacgtgg ttaccatcta 261000
ggggccttgg gtctagactt tctcctgaca catttgggac tccttgcat tggttattga 261060
cacacatgtg acaccaaaca cgtacaacct aggggtccac caactgttat ttgttctacc 261120
tctctgcttt ccaggaagat aggaagttct ctctccttgg ggatgggtcaa ttttagtatt 261180
tttttaacat ctttctctc ctaataaaaa cgtctatagt ccagatttag tctttgtgca 261240
ctgcctaag cacagtccat atagatcata cgttcttttt ctttttacag tcttgtcttt 261300
tttaggctag agaagaatct taacacttgc aactcttatt tagatgtagc ttctctgccc 261360


```

ttgaattgct tccgtgaagc agcatgatgc atagtggaca tggcttgcaa cttgaagtta 261420
atggctctgt catttactaa ggggtgtgtac ttaagcgagc cattgaaact tcttttggctt 261480
cgctttgtca tgtataaaat gagaatgata atgataccag cctcaggaaa ataggatgag 261540
agcaaataata tgtgcaaatc tattttagac ctgtaaagtc atgtataagt gctacctttt 261600
ggttttccca agctcgttgc agtttttcca agctgtgaaa ataaaaagga cttaatgatg 261660
caagttcttt gaatctgtat atagtttgat catatcactc acatttttat tgagatgaag 261720
atgtattttta cttgacactg aaaacaagga gcaaaatctc tttttacagt ccagttaata 261780
atcttagttc tgggaatgta agcttttatc atgtagagtg gccgcaaata ttttaaattgt 261840
agcagtcacc tataaggcct caaaaggccg tgtggaaata gtttcttcac taaattttca 261900
taacagcaac tacagaagaa tttcattact ggacagctgc aaaataaaca attacgctga 261960
gtgcagtggc tcacacctgt aatctcagca ttttgagagg tcgagagaat gacttgagcc 262020
caggagtcca agactagccc aggcaacata atgagacctt gtctctacaa aaaatgaaaa 262080
attagctggg tatggtgatg tatgcccgtg gtcccagcta ctgaggagac tgaggtgaga 262140
ggatcgcttg agcagagggg ttgaggctgt agtgagccct gattgcagct gctgcactcc 262200
agcctgggca acagcaggag accttgtctc taaataaata aataaataag tgaataaatt 262260
ccttgccatt tttgtttgtg cattaccaat ttagaaagtg atggaagtct gtagagccag 262320
ttatgaaaac tgagatattt ctttttagcag cacaaaacaa ggtacatttt ttcttccaac 262380
tcttaatat gcaacatttt gattaaaagt gtaagatttc tgtcttaaat catgtactga 262440
agtctcacct agacttctgt tcttgtattc cttgttactt ttcattttgc tactctgagt 262500
ctatcttatt cacattgatt gcttgataatc ttcatataat gctttttctc attttcaact 262560
ccccggccc atgcccggcc ccatattagt attattgcat gagttcaccc atcagacaca 262620
caaaccttct tctttttcaa tagcagtctc agtcatgaag ccctgtcatt taactgcctg 262680
gtagttgcct tcagttacta ggccagaaca gctctttcca ccaactcact gttactggga 262740
atatattgag actagtggca tccttttagac agtgctgtag ctacatgcc tgtggctgct 262800
ccagttggca tctgacatgc catttgagcc agattccaca tggaaaatta tattccaaga 262860
catttcaggt ttacaaaatg tttcttcttt tccactttta ctatgagggt ttgtgtatca 262920
ttcttacacg tctgttcagt cactattctt tttttctcct aatctcctag tggtgattga 262980
ggaagataat acccctctat gatgcataca ttgattagca aaatttagga agacctttat 263040
taaaatcact ttcatatttg ttaccctatt cttaacacaa ataaattttt ttggtttaat 263100
gttcatacaa tatttcaaag gaatccattt gtaattgtca agattattca gtgcttctgt 263160
aaagggcatt gtgttatgta ttgtataaag ccactaataa aaaatctcct gtctctgtgt 263220
gtgtatgtgt gagagagaga gagagagagt gtgtgtgtgt gcatgtgtgt gagagtgtgt 263280
gtttgtgtgt gcctgagaga gagagacaga gacagagaga caagagattg tgtggagaaa 263340
tgagaaaaat ccaatatgta aataaattgc attatatttt aaatacttat atatatataa 263400
atatgtaatt ttacaaacat gaacatttat acatatatac atttatttgt acaataaat 263460
atgtatacat acacaaatgt atgctgtgta tgcactgcc agagaagtat atttgtcttt 263520
taattggtag ttctataatt aataatggca ttacaatgac ctttttactg cgggagtcaa 263580
caatttatat ctttatcagc gataggataa tcagtaattt gagtgatgga atggatagca 263640
atttcatgaa aattttgaag cagttttcta gtcacccgc taaacaattt ggcaaacaag 263700

```

```

ttgcccagag atgatatcat ataatgacat ttcccagaaa aattgtgcaa tgaaacattt 263760
ccaaaaatat gggtgacaag cacagtgaag gattataaaa tacatgttat tgaccaaaaa 263820
ctgtggctcc tagtatgtta catcgtgcta gaaaaagttg gaggcatact tctgaaattc 263880
ttggagcacc tgtttcctaa gcatttagcc aggatttaag ctgaaacaaa tgtgaaaaca 263940
agattaatta tattgttaga aaaatgtttt cttttcttgg gataaatgca acaaaaactg 264000
aactgtttgc tgacttattt aacccaagaa actgaccgta ctctacagat actcctttta 264060
catgatgata tttatggaaa actcattgcc attatgtgga aaaaaaaaaa attgcagtat 264120
tcttttaaaa ttagcatca ttagcagaga tttttctttt ctataaaagt tattggtaaa 264180
aatgttgcta gtcactataa cagtaagttg ctgtccattt actgaactac tataattgac 264240
agatgtaatc aagggatact taagtgtggt gccaattttt gtactatatg cagcatactt 264300
acattgccat gcaaaatggc tgacaaaata ttatgtgtga aaagcattga cccttagcat 264360
aacattgttt aagattaaag gcaagaaaaa tagccaactc catctggccc atacaactgt 264420
ctgttttcaa caacctcaaa tttctaacct gcacaggtt cttttacttt tatectact 264480
gccatcctcc cagcctggcc accaggagtc tccatcactt acgactctcc agcctaggaa 264540
gtatggattg ctgcctcaa gaatccact aaaaatgaac aaagaattta ctgagaccaa 264600
atttaccttt ccccagacaa ctgactgcat cctgctagta ctttgcaggc tgtttccctg 264660
ccttcctccc tctgctctat tatccagatg gatttttggc ggtggctgtt tttgggaaca 264720
tataggacct gatctgcctg ggtatacttc tgcatttgta ggcaaatgcc cagtcattgc 264780
aaactgacat acttactggg tggaggcaga gaacctaaac agctaaactg ggttgggtaa 264840
gggtcagctg aaaagcagtc tcagtgtgtt ggagacagta ggaatgatgg ggactctagc 264900
gaactctgca gcacctgctc catctaaagc ggggagctgc ccacagattt agctcattac 264960
tacagggcag gaaagagggc cgagtgaggc caggtgcagt ggctcacgcc tgtaatccca 265020
gcactttggg aggccaaagg ggttgatca cctgaggta ggtgttcaag accagcctgg 265080
ccaacgtggt gaaaccccca tctctacaaa aatacaaaaa tcagtcaggc atgatggcaa 265140
gtgcctgtaa tcccagccac tcagggggcc gaggcaggag actcacttga acctgggagg 265200
cagaggttgc agtaagctga gatcatgcca ttgcaccca gcctaggcga cagagcgaga 265260
cttcatctga aaaaaaaaaa aaaaaagcca agtgttgcta aaaccttgag tttttaagag 265320
aagccagaag tttggttttt aaaatgagag cgctccagat atttttcagt gaaggcttaa 265380
tttttacttt tttatttcag aaaatgttag atatagtcag aagtagatag tagtttagat 265440
agtagtagtt taatgaactc tcatcactca acttctgtta cctcattgtc ctacttacc 265500
tctcccctgc cctgatgatt ttgaagtaag gttcagacat catattattt cacctataaa 265560
ctatattacc atcatcacac acacctgaaa tgtcttcaca atcccgggac tgttcccatt 265620
tcctcagttc taagaatgaa gattttgttt ctttagtttg ttgtaattgg aattcaaattg 265680
tgtgaatatg tggtttggtt gatatgtctt aaatatattt taatccattc atttttccct 265740
ttatcttttt ctctttcttg caacttgttt gttagattaa tttgtttgtc ctgtagagtc 265800
ttccacaagt atgagtttgg ctgactgcat ccgtgttgtg ttgcttaata ttgttctcct 265860
gtcctctata tttcccataa agcaatgaag aggtttaatc agatacaggc tcagtttttc 265920
tgccaagaca gttttgtagg tagtgacata gtcctttatt aggaatgcat ggtgtctggt 265980
tgtctctttt tgtgatggtc attgcctgta tcttttaatt cataggtggc tctaatactt 266040

```

caaaacatta tgtttttgca cactgccacc acacatacac atgtgtcttg ggtcagatgc 266100
aacccatgag tcacctgttg gagaattctg tgtatcaaag ttcaggcttg agccctgccc 266160
atgtctggaa catgttgtga ttcatttaaa gtaacttact ccagtgagc ccatcctgac 266220
acagggaat gatcttacca gatctacat ttagttttat attatcacgt gcctacttac 266280
agtgcgtgca aaaaggacct tttccttcat caggggttg gtggagagca tcccaatgat 266340
aagcattatt tgtttggatc aaatttcatg ctgtcctccc ataaggcaa tagatcaaat 266400
atgtaatatg tatgtatttt tatcttttga ggtacaaagt agacatatct attagtgcct 266460
ttgacgtatg gcctctatga atttttcatg atggactttg tggagaaatg actttgcaa 266520
tcacacacac acttgggacc tatcttccat aatgttggtt tctttacctg ttgttttgt 266580
tcattgggta gggctaagg aagtggattg tgggttttag aggaacatga ttgcaggatg 266640
aacaagggga ataggcaata ccgtatatac tggtagact tccaggata aataccattg 266700
atccaaatth ctaactgtgt ggcttggga aatgtacttc atctctgtgt ttccttctgt 266760
ctgcaatggg taataagatt tccctacctc agagagggtg gctataagaa ttaagggtc 266820
aatatctatt tgccaactct gtgaatagtt taatccttgc atctgtttta ggcagcaaag 266880
tgttctttgt tgttgtgtt ttttaagagt acattttcaa ttttgaaaa ataaattccc 266940
agtataaaaa atggaatagt aggaagatga taaaaatcag catagcccta ttttatgcta 267000
tttgaagagt gtggcattaa tagtatgttc tatgcttttt cttcatggct tctctggaga 267060
aatcaagcac atatgttgca gtgttgagcc aaacatttta gtgtacagac cgaacatctt 267120
taatcttggc ttcattgata agagttaaatt attcacgtgg attaaactgt acctgaacat 267180
tgtttttgtg gaattagaga aagtcacact tgtagcttc tctgtgaaac atccctagtt 267240
ttacataaat gtgtacagta ttaaattgtag ttcaaagatg gtatctacct tgtttgtact 267300
tttatgcttt ctctccagtc tgtgacctct tattactgtt tcttttgcct ttttatccag 267360
ctcttaactc ttagcctttt tccagataaa gtcaaccaga gagtagctca tggggtttta 267420
gaacatatat ttggagatcg ttctgggggt aagggttatt ttcttactta gaataatctc 267480
ttctagtcag tagatcctgc ctatcttgaa atggagctgg gtggcacaca ctgagacaaa 267540
tacctgttgg gatgactgtc ccctgttaat gtaaccata ggtcaggaca agaccaacag 267600
ataagagcaa gagcatgata ctactccgt aagaaattct gttcatctac agaaagcctt 267660
agggtgaaac aaagataaga atcctgggtc tctatgatga gtcactgcca ctgactgtgt 267720
ctgtttttgtt ttcagggtgt atgcatgta caattccgta aagggtatcct gctccgagcc 267780
tgttagcttc accaccaca gctgtgcacc cgagtgtcct tcccccta agctggcaca 267840
taggagcaaa agttcactaa ccctgcagtg gaaggtgggt agctcaaagc atcaagaatc 267900
gtctcaatth aaaaattagc caggtgtggt ggcaacgtgt tcctagtccc agctacctgg 267960
gaggctgagg aggggggatc acttgaaccc aggagtttca aggctgcagt gagccatgat 268020
cacgccactg cactccaccc tgggcaacag agaaagagtc tcgagttaat ataaggctag 268080
tctatagcca ttgaaatat tttttagcac gactccagtc ttgtgatatg tttggttttc 268140
tgcatagtaa gtatgtgcaa ccaactgtta tatcaaaagt tgtcatttct gtaagagttg 268200
ggcaaagggg tgggaggagg gaactgcaaa atctagcttt agcttttttt tgcagcagta 268260
ttttctaaat gtcttcaggt cataagcaac acgtataagt gatataggta cttaaaatac 268320
ctacatctta tcactttcta atagtctagc tcatttcaac aaacatttga ggacttttagc 268380

```

aaaaagtttt tatcaagaaa gattcagaga taaagtagtt ttatggccct tttggcacat 268440
ttcagtgggtg atactgaaat gttaataca taaaacaacc tagaacattt agtgatctaa 268500
actatgttag tacttcatta agtttcacta cttaggccat acaccagtca ggattactaa 268560
ttattttaaga aaaaaagact gaattatata ttttcatgaa acacaattca ctggctaaaa 268620
ttagctgtta ccaaagagag atcatattgc cccttcctca agaggcatca ctagcttggt 268680
aatcatagtt gtgtgtttgt gagaaaacag tagattgtta tcaatctcta tagcagttat 268740
ttctctacat caatatttta aaatataatt taaaatgtaa aatagatgga ggtagagata 268800
aagatttagg gtttgggggg agaatagtaa tgtgtgaaag aaagaaaatg gctaggaaga 268860
tccattatta gtgaagaaat attttatctt ttcatttctg gccagagag tcaggttggt 268920
ctagggagct gatgaaagca attgagagta gtggttagca gcaaagcatg ggcctcagtt 268980
gatccctctt aggtgggcag ctgcattctc atagccagtg gccagcattg agtgtgttac 269040
ttggacagaa gcaaagtta aactggetta gaatctgaac tattttatth tcttctctgg 269100
cttccaggga taatccaggt cagtattcc ccacctttc agagttttta caccactg 269160
gcatcattgt ttaattcctt agagtataca catccattta aaaaatgtgc tctatattta 269220
cacatacata tgtaaatata tctttgtaag gaaagaatta aaatccattt tgtttgga 269280
atataagaac tcatctttag atgacctgag ggatcccggg gtcttataaa cctaaagttg 269340
ggaatcactg atgcatactc tgcttaaaac ctggatgaat ttcaggtctc aggcagacca 269400
gcaacttcaa gaaagaattt tcttattagg aggaaaacgt ttcacatttt ctttctccct 269460
ttcctcaatt gtaaatacaga aacatactct tgttccattc agtcatgtac aaacttgaaa 269520
gttctggatt tagttcagtt ttcatttaaa tgccttaga acagattccc tgatcaaagt 269580
gctccagggt ggggcacaag gacaggggaa cattctctgg ctgccagtct gtccttgaat 269640
ccacaaagac gctgaaagca ctaaagatct gacatctttt tgttcgtcag caacagttat 269700
tacttacaca ggagataagg caaaacaaaa acctaagtca gtgtaccac cctcaaggaa 269760
ttaagggact agtagtggg taggatatca tcaaagaaac taccaaagaa cagttttttt 269820
ttgagttctc atcttagaga tgggttctca tcttagagaa ctttgatttt gtcagttgtt 269880
tataacttta agtgcacac tatcctctcc tccagattga gcctgcaaga gcctaaaata 269940
acagtttagg acttagagca ctcacctgag atccgagttt tgggactcag agattgtgtg 270000
actctaaaga gagaaggaag ggaaggagag ggagaagaat ttcattatta atttaactac 270060
catttactgg gccctgagg ttttattact aaccataata gagcaataac aactgtttac 270120
tgagtgttc ctataaaaact gggtagttta gtaggtgatt tacatattct cccaattatt 270180
tatcatacct atctattctt ggaacatgaa attagttgtt gatattgata ttaaacagct 270240
agcaccagac cacatgcgac aaacagccaa ggtaggattc agatacatct caggggaagc 270300
tgagctgcct tttgccagg gtaaggcact gtgctgttg ttaggtctt gctctttcct 270360
agggaagagt cggccctggc atgtttttga agtgggagac acgatccgac tctcttctct 270420
ggttgcttcc cccaactgt agttccactg tctctctaga tctgtctacc ctaatgtcc 270480
aagagacccc actgcggcac cacctgtagc tcttggaatc ctgaaaagca ttcttttctc 270540
cagagttctt tacttccctt cccattgtta aaaaccact ttctcagtga agcagatctc 270600
agcatgcttt ttaagaggaa agcaaatgat gaaacttccc tctgctaacg tatgaaggat 270660
gaatagcctc tagtcatcta tccagaggat cacatttttt cccatttttt taaaaagagg 270720

```

aaccttaatg tcgctgatgg ctttctaate ttaagtactt ttaaaaaatt aaaaagctgt 270780
atgtgggatg ttataaaaag aaaggcttga ctgtgctcca ccagacctcc agcagtgcct 270840
gtgtttctca gctgccttgt tctcactcta cgcttgaatt caaagtcctt cttcaaagtc 270900
ctatccccag aggaagtagc gtacatgag ggtgtaaaaa gggagaggtg gtggtggtgg 270960
taggtaggtt tggctatttg tggagtatga tttattcata gtggggactc tctctactgt 271020
tgaggtatgt caaagttagt gtatgatgat gattgaccaa ggaacgcagg aaccatcagc 271080
tttatcccc tgaggggaga gcacaggact atcatagaca ctgtatgtga gccaggtggg 271140
taactcataa gttttgtctg tgaacaactt tctctaactt catgttacta ttttttttag 271200
gcaccaattg acaacggttc aaaaatcacc aactaccttt tagagtggga tgaggtaagc 271260
ttattttcat attcacccat ctaaaacacc atttcaaaaa caaaattaac tgaacaaatg 271320
ccatcttatt cttttataag acatgctaaa cacagaaaaa aggaatgcta gtagagaaat 271380
ttaaatacat agttattgac tatggaaaat gaagttagat tgaagtagta ttatgagttg 271440
tgtattgaaa tatatgtacc tggttatttt gcaagcacta ctgctgaaag aaaaaaagtg 271500
gggtcttatt tattttggat ctccagtgtc tagccagcca ataatttgta ttaaaaattg 271560
actgctttgt catcttgact gctcagatga ttttgataag gtaaaacaca ctgccgcttg 271620
gaaagcataa tttgcttttc ctttttgaat gccatgtatg tactttggtg ttacactgtt 271680
gagtggcctc tgtgagagca gagcagtaca tagaagtcac attctacca tgtgcgagtg 271740
ccctgtgggt tagaatgtcc tgtatcggat gcccccttg ctgttcatgt caccagaggc 271800
ccttggaagg tatctacggt ggagtgtcct tattctcaaa gccactgtgt gccactggt 271860
ggaccagtg catttctggc ctagctaact ctacacacag aatctcaggc aggaaacact 271920
tgacctagaa gcctttcatt tctaaaaagc aactgtaggt cgggcgcgat gactcacgcc 271980
tgtaatccca gcactttggg aggccaaggc aggtggatca cgaggtcagg agatcaagac 272040
catcctggct aacacgatga aacaccgtct ctactaaaaa taaaaaaa aaaaaaaaaa 272100
attagccggg cgtagtggcg ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga 272160
gaatgctgtg aaccagagg gcagagcttg cagttagccg agatcgacc actgcactct 272220
agcctgggag acagagcaag actccgtctc aaaaagaaaa aaaaaaaaaa gcaactgtac 272280
tttttgttcc ttagatctt aattgtattt attcatttgc cccacttta tgctttctct 272340
ggttgagaaa ttggctaagg attttaagaa taagaaatgt ggaatttggg gagaaatgca 272400
agttagctag cttcgtgac ttaaatttgg agagattgaa agatttagaa cttaggcaaa 272460
aaatgacttg gcaagtatgg aaaaatattt taaccaaatg taaaatgaaa actggatgga 272520
attcccatga tgaaattttg atgtgaaaga gaggtccgtc atcactttct gcagaagcat 272580
attttcccat ctgggttgca tctgaacagc tagagttcca agttaccag aacaaccgtc 272640
tgttgttctt aggatcggtt cgaatagctt gtacatgcag gttggtaaaa tctcagcctt 272700
aaccgtaca ttctacagat taggtggatt tcattttaag gtggttaatt agaaagtga 272760
accacctctc cagcccttag aggtttttat agtcagtcag gaatgttga aagaaactcg 272820
aatgacctgt gagcatatag taacatcttc ccactcttc ctctttgtaa ggacaggtga 272880
ccgtttaatg aaagtctctt tttatatgtt gatttgttgc actcaccttg ttttttctca 272940
tgtctcgagg ttcaccagta cagaaaaggc attttttttt tcagttatct tcttagggca 273000
ctgtgtgtgt atgtgcgtgc gtgcatgcac aactcgtgc atgcatatga atcctgtgtt 273060

tttttactgc ttctctgcct aagaccgtga gttcctaagt taaggaaggc caaaaaagtt 273120
gaatacatatc ctgagtgga aacctccaaa gaaaactcgg gtgctgcagg aaatggtaac 273180
tcagttacca ttgctcagtt cctcatccct tcccttagaa tttgaagtga gagtgtcgta 273240
gctgatgatg ctgagaggaa ggatgccaca gcctctgctg aaacaggaca ggccacgtct 273300
gatgactttt tatgttcagc atgggtccatt acaggctagc ggtcaaaaaa tgttaaattgg 273360
ctgagttttg ccctctacct ttctcctact tgatctcctt ccagcttttc ctctcacttt 273420
tcttaattcc cttccctctt ctttccctt tttctctccc accttcaaatt tccctgctggt 273480
atcagctctg ttgagctttg ctgaagattc cagggttaatc gactctcatc caccatggat 273540
cttttgccaa cacaggaatc cttttacatt ctgtggcttc atgtccactt tctagacatc 273600
tccctgcccc tcaattctaa ggcactccct tgcccttggg tgcaacgagc ttccctggcag 273660
gagaggataa ttgaaggaa accaagatta ggaaatatgg gttctgttct gagttttatg 273720
ctgggcagct tgacctctct ggtccttagt tttttccatc tgtgaaatgg tgaatagatt 273780
agttcaccag cttgtgtgca ttacattat ttatgtctct acaaacaga ttatttagga 273840
ttgtctcttc tgacaagaga atatttggaa tcattttcac tgttcattaa ttatttcagc 273900
atttatggag tgtgtctctc agtagtccac attgcacatt gtccctgtgag ggatctgtga 273960
cgtagtaaag ataactgtga tagctgtgat agctgaaaaa gcaaacgtac gcctatcctc 274020
ttgtgctttt aagcagacac aaataaaaca cgttgccata tgcttctcaa attgttctgt 274080
ccagtagctt ctttgctttg tattataccc ctctcatttc ccatccctt ataaagatga 274140
aaaaatgggtg ctatcggtt tcctggcaat gagaattcaa gcagtagtaa caagttcatt 274200
cctgcccac cgttcatttc agaagtgaag tttctgacag aacagtctgg cagtctgtgt 274260
ttctaaattt agagctaagt tgaggatcag tagcactctt gagagtagct cacttgggtt 274320
ggctcttggg tcccacattc ctatgctata caggccttag cttcaagaag gaaacaggag 274380
aacggcatct ggtctgtagg aagtgtgaac acataaggct ctggccatcc ctctgaatcc 274440
ttctgctggg agtttctaca gccagggtgca tctcttggg accaggactg tttccagact 274500
ctgccttaat agaaggcagt gaggcaggag aatgggaagt ggatgtttt ctggaatcac 274560
cctttcccca cccctccct ctctaagagc cacagctctc ccctcctctc ctcttcaagg 274620
atatctgctc cagccacaca ccataaacc tgtctgcat ccagggggct gaagaaacaa 274680
acttagattg cagaaagttt ttgagggtgca cagagacaca aatcactgcc tgagagtga 274740
acagtgtgc tcagagtctt gaagaagggt gtgttcaggc atagcactct tccctgtctc 274800
tgctctggca cctgggtctga gaatcatgac tttgagggtga ggttgccctca tctccatata 274860
tgcaaccact aatgtccagg tatccctgc agccccatat ttttattaca gtataacagc 274920
atggattaga gttccagaat acttttagtct tttgttgtt gtaatcacct ttgcaataaa 274980
atgagtagag taaaattttg aaagtgttg ttaaacaaga agacagggca tcaagcccag 275040
ctttcaagcc tcttaaaaaa agacttgcatt ggaaaaagag cagcagcctt tatttctgct 275100
gagattagga atgctgtgcc gagttgacct tcatgggaag atccacctta atcagcagct 275160
aactatatgc tgggctctga agtacaaggg cagggtggaac cctaattggg agcagaaaac 275220
agaaacgcat tacagtacag gggaaatctg atccaccatc tctcctctct taaattcact 275280
gtcattaatt ttgcatcact gtagcataga attcacttgg aaattactca ttaatagtct 275340
tatactaggg ttaactgcct gttatttctc cattaataac taactagaca acatcttaat 275400

ttttaaatca atacaagaag ttactatgac tatgaaatgg taattagcag ctaaaaacgg 275460
aatttacagc cgggcgcggt ggctcacgcc tgtaatccta gcactttggg aggccagac 275520
gggtggattg cctgagctca ggagttcgag accagcctgg gcaacacggt gaaacctcgt 275580
ctctactaaa atacaaaaaa ttagctgggc atgacagtgg gcgcctatag tcccagctac 275640
ttgggaggct gaggcaggag aattgctaga acccggaag cagaggttgc agtgagccaa 275700
gattgcacca ctgcgtcca gcctgggcca cagagcgaga cttgtctctg aaaagaaaaa 275760
aaaggaatth acaggtgtca ttggcttttc agctgtggcc ttcagtttcg attttcacct 275820
gaaacaggtc agtttttatt acttgagaag gtgtggccat tccttgccaa gttcccttgt 275880
ggtgactcgt gagctttagt gtttagagcc atggggttta ataactgacc ccgcattttt 275940
gtagatthtt agccgctttc ctcttcagg agacacccca ttaggagcag aaaggcagaa 276000
ggtcattttc aagtcttttt cacttgaacg ttagatgagt cacatcacat ttttatttca 276060
gtgtccccgc ccccggtgtt acactttaat ctacaagcac ttgtcattct gatgggtagc 276120
agaaagcaga tcagaagtc ctaaaaagga gcttggttaa cagcaaaaca atgactagat 276180
gctagattht tcaaggtata ggttctttcc acaatggaga gtcagtga gggggaaggc 276240
ggacaccatg cttgagacac tatacccggt ggccgcaccc aactaatcc ctttgactgc 276300
ccatctthtt tgggcaccct tccaagctac attgaccctg cattgcttct cttttccttc 276360
ttctttcttc ttctthtttt tttttthttt tttttttgag atggagthtt actcttggtg 276420
cccaggctgg agtgcaacgg cacaatctca gctcactgca acctctgtct ctcaggttca 276480
agcgattccc ctgcctcggc cactcgagca gctgagatta caggcgtctg ccaccacacc 276540
cagctaattt ttatatthtt agtatgttt accatgttgg ccaggatggt ctccaactcc 276600
tgacctcagg tgatcaccca gctcagttt ccaaagtgt gggattacag gtgtgagcca 276660
ccatgcccag cctgtcttct tttcttgatg acatatcact atctagcaga ggtgggagtt 276720
tttctctaga agaagctatg ggagaaggat tgaggatata gagggctcta ggttagggaa 276780
gggctthttg gaaaaaaaa actaggaacc tctgggttga gtcattcata aatgtctgcc 276840
cagtctgttt taatgttctt aaacagatcg tgatctggcc ttattcttga aaacttgagt 276900
aaaggagtga atthttaatgg gcaaataaga actthttatt ttagaaaaa ttagttacat 276960
aaagaaagta tttatgcaaa gttggcttgt ttaagttct gccttaagat attgtthtaa 277020
tttgaaccat acagaacact aactggtgct gctgcagctg tcagaacaaa tacaggtcac 277080
ctaagatctt gctatgaata tgtggcatgg attcatattg atgatatata tcaatgatat 277140
gatgtthtat taaagaaacc tgaattaatc gtctcagctt tgtctctgtc ttcatccatt 277200
ttgtgctgct gtaacagaat acctgagact ggttacttta taaagaacag agatgtatth 277260
cttacagttc tgcaagctgg gaagttcaag gtcaaggact tgtatctggc aagggccttc 277320
ttgctgtgtc ctcccataat agaagacagg agggcaagac agcgcaagcg tgagagaggg 277380
aagggaacca aactcgtctt tttatcagga accactcct gtgataacaa actcactcct 277440
gtcaaaatgg caatgcattt gtgaggatag agcccttggt acctaatcac cttttcaagg 277500
aaaaaaaaat gaccacctct caacatgttg cattggggat taatthttt tttctthttt 277560
tctthtttht ttttgagaca gagtcttgct ctgtcgccca ggctggagtg cagtgggtgcg 277620
atctcagctc actgcaacgt ctgcctcccg gtttcacgcc tttctcctgc ctcagcctcc 277680
cgagtaactg ggactacagg cgcctgccac cagccccagc taatthtttt gtatthttta 277740

```

tagagacggg gtttcaccat gttagccagc atggtctcga tctcctgacc tcgtgatccg 277800
cctgcctcgg cctcccaaag tgctgggatt acaggcgtga gccaccacgc ccggccgggg 277860
attaattttc taacacataa acatggggga cacattcaaa ccataacagt ttctagttac 277920
tcatggtata cccaagcag gtaatttaac gccttagcct cggcctttcc actggaaaaa 277980
cagtgtcagt tatctcacgg gtacgtaaga ctgaatgaga taagttggac aacagccgat 278040
tcagtgtaac gattgttcca tattgttgat ataagtttac ctaagcagat gctaagatct 278100
gagataggga cagtcaacaa ttagaacaat catgtataag gaatatgaca ttcttctgtc 278160
aggaacttaa acaagagccc tgaggtttat gtcacttggt tgaactaaat aaaaactgat 278220
gttagtgcta tcgatggatg ttaacttgct attagcctaa cttctggaca tgacatgcag 278280
ggcacagaat aaccagaaaa agcactttgt gggaatgtga ctactggagt ccccaaaaac 278340
cttcctcact tgtgaccag ctagcccaa aggaagtcca catctggata cacagaataa 278400
ccagaaaaag agctttgtgg gaatgtgact actggagttc caaaaaacct tccttactca 278460
tgactcagct agcccaaaaag gaagttcaca tttggtttcc ctggtgacta atgagccaac 278520
acagctgtaa aacacagtgg actaagaatg aaacagatgc cacagaaatc aggggaagca 278580
taattaaaag ttgagagagg agaaaaggcc agcagccgtt agaaccatg cccctgggga 278640
gccattagca ggtcaggcca ggccaggcag gccagcagt cctgtcacag aaacctcctg 278700
aagcaggtgg ccagccccag attgcagctt cttggacttc tgtatcattc aggaggagcc 278760
ttgttttaggg attgagttgg ccccgtagaa gataatcagt aagagatcaa ttaatcagac 278820
tcctgcttag ctcaagtgtt gaatagttca tatggatgat ctctcataat ctttctgagt 278880
gaatttgcac aaaccttttc tggttagata acaactgttc tgagaatgaa gggaatggag 278940
cagctacaag cacagtaatt aactaggtcc cacagcatgg atgaagagag cccctgaga 279000
atttgcttga ctccagctct ctaaggtgcc aactgcctt aggggtggaca gtgtgttggt 279060
tggtttcatg acaaaagcca ggaaggtcag ctttcattcc cctgcccagg cccacatgca 279120
ctttgggtcat tcttggaac tgtggggatt ggaaagtggg gttctaagtt ctttttggt 279180
ctgtccatca gagaccatct ttcacatgag tgcccactgc catgtcttac gttgttttca 279240
gaaagccaag agaattgctg cccactata gctgctattg aaggaaacta agccaggaag 279300
gattgaataa ctgagaggca tcttttaggtg ccacttcattg attaaaagga gcccctctt 279360
ttagggacct cagtctcaga gatccacaca cctgtagcag attctctgcc ttctctcttt 279420
taccatttct cgcatgtgta catgatgagg ttgtgtgttt gggaagcaaa cttgatgtgg 279480
agcttcttgc tgaggctaaa ttataaatct cctcttggtt cctgacacct gatttatcaa 279540
ctcgcctttg tcatggcttc tcatcgtgag ctggaagaag actgccttgg gccttacta 279600
ggtgatgga ccaaccccat ccatcccttg gttcatttgt aaattgtact aacagtctgt 279660
tctgaaatta ggccctcggc tcccttgctc ccccttcct gagacagtct taacacatcg 279720
atcctctcaa agcatttgaa aacagatgaa cctcaatatt tggagaaata cataggaaaa 279780
ttttctttgt gtgtttgttt aaaccagaag acctagtgat catccttggc tatttcaggc 279840
agccaagcct cccctcttac agaaaagcta gtgtgctgag ggataaaatg cctccctgtt 279900
tatttggtaa catggaacca caaatcatcc caccacttt tcttacctt gaaacatcct 279960
ctgtgccaga gcgtgcaata aaatgaaaga ggcgtccctg ggggaagagt ggggtttggc 280020
acgaggaact tctgagtcca cccaaatgca gagtgtccct ccctccctgt taggagcctc 280080

```



```

ttatatatgg ttatgctgaa cacatacgtg ctctttttatt tctgaagcca acattggtct 280140
ttgatgttgc ctaggatcag ccggtgctgg aacagcttct aaatatagac actctagcag 280200
actaaatcct agagtctggc cgtagttcag ttggccagt caactttatt ttttatgtat 280260
tgttgccgtt tctgacaggt tgaactatac tattaacaga gaatggccag cccagaatcc 280320
ttcagcccat gtctggattc agcagccatg ggccacaagc acgtgacaac tgataaccaa 280380
attcatggaa cttatttagc agacagtcac caaacctggt aagagcagct caggaaggca 280440
gcaggcatgg ctgtggaaga atctgaaaga ggccgggctc agtggctgac acctgtaacc 280500
ccagtacttt gggaggccga ggcaggtgga tcacctgagg tcaggagttt gagaccagcc 280560
tgaccaacat ggtgaaaccc tgtctctact aaaaatacaa aaattagccg ggcattggtg 280620
cgcactcctg taatcccagt tgcttgggag gctgaggcag gagaatcgct tgaacctggg 280680
aggcggaggt tgaggtgagc cgagatcatt ccactgcact ccagcctggg tgacagggtg 280740
agactctgac tcaaaaaaaaa caaaaaaatc tgaaagagaa ggaggacagt ggaaagatac 280800
cacacatcaa gaaaacatca ggaggagtaa gtcacaagac caaagggaga aagttcacca 280860
tgaattccag catccttgtg ttggccattc ttaatcttgt gccaggaatg aagcagttat 280920
aaagaggaac aggaagtatc gtttccaatc tattaattta aaagcagttg aaaatatcag 280980
ccagcttcat ctgttagtgc cagcgggtgt ggaaataccc acttctagtg ttgttagtgc 281040
cagggttaatt agaaatgtta gtcagggcag ccacagcccc cacagtctac agaattacac 281100
tggcaggaaa acactgtagc ctgaattaat tgggatgtgt gtgagttaca tgtatagaat 281160
gagccatgag ttgtgttcct taatgggaaa ccagcccatt tagaggattc atcttcccaa 281220
gtactgagga aagctttatg aggatactaa gttagtaaag aagaaaaatt aacttgaaaa 281280
agttcttttg ttgttgtttt cagtctttca actacacact tttacaaatc aacacaacaa 281340
atataatttt aaacatactc taaatattag ttgcatttta tgatcttaat caaatacttt 281400
ttatatactt agctgccagt tttcaagtag gtagaccatc tgtaaatttg tttcttact 281460
ggaactcttg tatgtttgta aacagatacc cagagagaga ggtggaaagc tggttacatg 281520
aggaagtcct ttgaaatgtt cttttctttg ttgactcctg tggtttttagg ctatgtcata 281580
cctaaactgt cccctagaga ccattgcgtg tctggattta aaaatctccc aagagttctc 281640
taagtttggg atagcattat taaaagtctt atttcaatct aaaatgtgat tctgtaagat 281700
gaagtaactg catagctgtt gattggcaat tttggttgat ctttatcgct taggagtctg 281760
gttctatttt tagcttatac aaaaaataact tttaaaatta ttcagagagg tccttacttt 281820
ggtggatggc tttgaaagaa aaggcatgta ctaagtgcac gtagaaaata ggacccatca 281880
tatgttacac atttattttg cttttgtttt tgttttgttt tgttttgttt tgagacaggg 281940
tcttgctctg ttgccaggc tggagtgcag tggcacagtc tcggctcact acagcgtctg 282000
cctcccggt gcaagcaatt ctctgcctc agcctcctga gtagctggga ttacaggcat 282060
gcaccaccac acccggtctaa ttattgtatt tttgtatttt ttttttttta tgtttattat 282120
ttattttatt tttataaatt ttttttagta gagatgggtt ttcaccatat tggccaggct 282180
ggtctcaaac tcctgacctc agtgatcca cccgcctcgg cctcccaaag tgccgggatt 282240
acaggcgtga gccaccatgc ccagccagac atttattttg tatgctagca tgcacattac 282300
attccccac cttctagctg tttacagtgt aggaggaatt tataaaagt tgcagaaatt 282360
cagaggggta aaacttcatg ctataaacgt atatagactt caaaatagat gagtgttaata 282420

```

```

ttgcataaca aattacccca aaacttagag gcttcaaaca atcactttct tatgcttgtg 282480
gactctgggt tagggatttg gacagggcac tggggagtgg catctctgtg ctctatcata 282540
tctagagttt cagcgaggag ggctcattgg ctggggactg gaataatctt ctggcagtgt 282600
tttcactcac aagtctagca tcagtgtcga ctttggactg gacctatctg gggctcttca 282660
catggcctgg ggttcccaca cagcgtggca gcttcagggt agtgagaatc gaaaatcagg 282720
tgtcccagca aaagttagaa gctgtaacac ctttccacac ccagccttgg cttcatttcc 282780
actccagcct tttggttaca agagagtcac aagaccaccc gcattcaagg gaaagggaca 282840
tagacttaga ctttgtttct caatggatag ggaatcacag aatttttaga catgtttaaa 282900
gtaaccactt gtggtataag ctttctcttg tctccttttg gtcctgagaa accattaaca 282960
aatatttttt tctttatctt tgtatagcac atacagtttt ttaggtacta taacctaa 283020
ctgttagata taaggtcata tactttaaaa gtacaacgta actctttttc ccatccctga 283080
ttcttttctg agtattctgg agacagggag agtgggggca aatgtgtacc cagaaatata 283140
gtgacaggat ggacctcata cctcatagcc agtgctactc agccagccag tgagacatgc 283200
ctcagtggct ctcaaatacc aatcttctca gctagcagat ggaagagatc actctgcctg 283260
ctcccttagt gataagggca gggaacccaa acagactgtt tatctccagt taatgtctct 283320
gcctcagttg tacttgaaaa gcaggatcgt gtattctgtt ccctcaggtg actcatgata 283380
gtgcagcaaa gtgttttagt ttttgtttgt ttgtttgttt gcagggaata taaatgtatt 283440
taaaatcttt aacagacagt ttttgttttt taactacaaa tttgaaagaa attgaaaaat 283500
attcaagtag gtagtaaggg ggtaaaagaa aaaataaaga tgttccttaa aatattcaaa 283560
atattttata tttataatth atctccaaat ttcatttttg agaatggcag agctggacat 283620
ggtagctcac acctatgatc ccagcacttt gggaagccta gttcaggtgg aaggatagct 283680
tgaggccagg ggttcgagat cagcccatct ctacaaaaa gaaaaaaatt gaaaatttag 283740
ccaggtgtgg tgggtgcatg ctataatctt agctactcag gaggtgaga aggagaatcc 283800
cttgagtcca gcagtttgag gctacagtga gctatggtct gtttgtacca ctgctctcta 283860
gcctgaacaa cagagtgaga caccttgtct ctcacacaca cacacaaaa gtagaatatt 283920
tggaacacagt atttctccct tgtgggggga aaaagaaaa gtctttgtcc tggagattat 283980
aatcacatct tggagatgtt ttcaggggtt gatcattctc tgctatgtag ccacatagtg 284040
ctttttatat actctccaag ctcccttctc ttgccccctt ttttctgtgt ttggggcctt 284100
tcatagtctg gcaaaaaagt ggaggttatt gccattcttc agaatttagc aggaccctgt 284160
aggaacaaga acaatatcta gactccatt attaattagg acttgaaacc aaaaatgcat 284220
gacccttcta aaaagttagt gaggatgagg atgaagcaaa ggggaggcag gtgctcatag 284280
agtatgtagt attctaagcg ttactaggct gggacttccc ccaaagggtg atgacttctt 284340
ttagtatgtg aatcttgaaa tgaaaggagc acttaccag gttcagataa atgaggtgtc 284400
cagcttaggg caggtgaact ctgtggtgag agttatgatg acatcagggg acaggtttgc 284460
gcaaggcaca ctggacggaa catagagtaa gatgatccag tgggtgtctag aatgtggata 284520
atacccaatg tatttttgtt tgatgattgg aaaggagaaa gaggcaaagc cttttctccc 284580
ttcccaggct tgggaagggc tgatctgatg catgctgtga atatgagtcg acttactggc 284640
gagccaagtc ctttctgga gagcagtttt gaccagaagt ggtagacaaa acaccctcgt 284700
ccctggttgg aaaacattac cccagggtga tgaattggtg ctctcaggct aggtctgggt 284760

```

gtggaatgaa gatagataag caacaactgt gaattagggtt gagtgcgaag aggaacactc 284820
agcttgggaa aggaaacaac ccacgtttgc aatgcgtcat cctgcgccag attgagcacc 284880
tcaaggtttg tctgcacaca gttggtttgt actccaagat ttcttcacat tgtagtaaag 284940
aaagattaac cttgcccttg aatgaacttg gtctgagctg cagaaacaag catttgggca 285000
tgcccaaggt tgcaaaatgg aaacaagcca gtgcaccctg aaaatctgcc ctttttttgg 285060
ctcacagaca ctggcagtag aaagttaggc cagaactggc tggggttata ttggttcattg 285120
tccagtgagg tcagtagccc agtggctagg tctgttccag aatgatcaat ggtgttcact 285180
ctgaccagtt tctctaattc aggtgaagta tcttttccat accccgctga gaacagggac 285240
tccagtgtca ccttagagggt tctgatcctg actgctcatg tgctgcgaac ctgaccacc 285300
aacgcgcaga gaagcggagt gcagctagga gtctcttccc tcagccctgc ggaccagctg 285360
actcccaggc cctggcagcc cctttgaaag ctcttactct cctctgtgtg acacaccaca 285420
agtggcctag cagccgtagc tggccaggat taggcctaag tcattggctgt ccctgctgcc 285480
tgtgtgtgac cagatcattg atgacaacag gtctgaaaag tgtcaggatg ttaccatttt 285540
ctactgcagc cataatttag tagggaactt tgaacaaggc tgaatttaaa ttattaacaa 285600
ctaagtttcc gaagtcaagt cagcgtatct cagtaatcct gtgtagtcta aattagatttt 285660
tttaaaggcg ggaacgtgcc atagattata atctctcaaa atctctggga gccacacagc 285720
atataaaata tgaaagtgtt catttaccat ctctaaaact tcactgacag gaatgatttg 285780
gatataattta acttctgata aacaatgata aacattcact ttatcactcc tgtcagttcg 285840
tatgaatctt tcagtcctct aaagcattag ctcttttctt ttttaactcc atttctgtca 285900
acaagaacag gaaaatgttt tgtttataaa tgctatttgc aacctgggac ccatcttggtt 285960
ttatgaacag attctccaaa tcttctatgc ctttgaacac ggacttactc tactctaattg 286020
cttaagctcc agagccgtcg gagagcctgg cgcagtagac agaccagcac gctggcatcg 286080
gatcactgga gccagtggcc ttctccagtt cacttgtaa cttctcagct gcagatcact 286140
ttttgtactg cagtgacttt tgtgaacatt aatttttttc tttccagata tgcattttat 286200
tttattttat attagagaca gagtctcggt ctgtcaccca ggctggagtg cagtggcgtg 286260
atctcgactc actgcaacct ctgcctcccg ggttcaagca attctcctgc ctacgcctcc 286320
caagtagctg ggattacagg cgtctaccac cagcctggg taatgtcttt gtatttttag 286380
tagagacggg gtttcacat gttggccagg ctggtttcga actcctgacc tcaagtgatc 286440
cacctccctc agcctcccaa agtgttggga ttacaggcgt gagccatcac accccgcccc 286500
gatatgcctt ttgtattaaa cttcatgtta tacatgaata tgttctttta ttcaaaactt 286560
ctctcatgtc tgaaaatattt taacctactt tcccttggtt ttgttttatt ctcaatgact 286620
tctaaaaatt catcaataag ccttaattct ttttaactgtc aaatatttgt attcttacct 286680
ctacagactc tacagacaat gttccaaaa ctgaattcca gggttttaac aactctggat 286740
ctttctaggt gtccctaagt ttatgcacat agtagtacat cctggaagtt gttatgatag 286800
aaaattcggc atgctttgtc tatatgggtt gtagtttata tagcagttgt tccatgatttt 286860
aacaattggc cctgactcca agatttatgt tttgtttgtt tgtttttgag atggagtctt 286920
gttctgtcgc ccaggctgga gtgcactggc gccattttta cttctttcac aagtagaatt 286980
tttttaaagt ttagcaatat aggaagatgt cttgaaggtc acacagttcc cttctccta 287040
attcttttagt gagcgtgagt gctctggctc tcttaaaagt catttctccc cttcgaaccc 287100

tccccagtct ttttctcggt tgagccacaa acagtctggt ttctactgta ttaaagcaaa 287160
ttaacctagt aagaaacact gacttttttt ttactggcta cagttctaag cacaagaaaa 287220
ggggaaagga gaccaaataa agaaatagga aaaatgaggc attaaagggg agccaacacg 287280
gggttttgaa gggatgagag cttccgccat ggcaggatgg gcctttcttg cactgcttac 287340
tctgagttca gaaatagagg aggaaagaag gtagatcatg ccacagcctg aaatggatac 287400
gacacatacc agggctccca tagagtgtga tcggatgctg ggtgtaatta ttcaagtgtg 287460
tgcatttgaa taaatcatct tcctcaacct caacactcaa ggttgaagta agcatagtgt 287520
gtgacatgcc agccacatag tgagttcact caaggagcaa ctgagaaatg tcaggcttta 287580
cttgctgcac acccccaact cggccacca gttgcatctg aatgcacctt gaacccttga 287640
taaaatgaac tttcaatctt aaagactgtt agaactctca ctcccttcca ttgggaaagg 287700
tgcttcctgg ctctaggagg tgggtgggga aggggttctt ttgaggagga tgaatgtggt 287760
gtgatttttt tggggggcgg ggcggggcag gaggacggaa tctcactctg tcgcccacac 287820
tgagtgacag tggcgcgac tcggtcact gcgagctccg tctcccaggt tcacgccatt 287880
ctccctcctc agccccctga gtagctggga ctaccagcac ccgccacca gcctggctaa 287940
ttttgttttt gtatttttag tacagatgtg gtttactgt gttagccagg atggtctgga 288000
tctcctgacc tcgtgatctg cccgcctcaa cctcccaaag tgctgggatt acaggcgtga 288060
gccaccgcgc ccggccagtg tggttggttt taatgtgctc accgtagcaa cagtcaggct 288120
agtgggtgtg tcattttatt tttaattaaa accacctgga atgtgtttta gtggtatttg 288180
gagacctgct gaaaggaagg agatgcttaa atttgtttac gtaaaaaatg tgcttgcttt 288240
gttttttggt aaataaattg agaacttcag acacattgct caaggccctg ggcctgtcca 288300
gttagaatgc taagatccac tcaatgttag cttatggttt tcttttgcac gaacatggat 288360
aagatagtaa gataatgtgg atatgggtag gaaatattct acaaaactac tgataagagt 288420
attacatgcc tgtgagtgtg gcatagggcg gttagacttt ttccttactt gttgaacctg 288480
atacgagacc ccactagagt gttttatttt tactttaacg aatttgaagt atcacataag 288540
gctaggaagg cattcaaaat acatttctag cctgacaaga aacttagagt gactgtaata 288600
tacatagatt aattcaacca atgttccaag tgcttatcat tcacttccac cctgcaagca 288660
ttgattgagc tcccagtttg tccaaagcac tgttatgagc aaagcagacg tggacaaaat 288720
gattcaaagg tttgtgacca gtagcagcaa tcagtgaaga aacaccatca ctagaatgta 288780
cttgatgaagg tattggagcg cactgcatgg caagaaagat acagctggag agggccttgt 288840
atggcacact cagctgcaga gacgggtctg taggtgctca ggagttactg ggaaaggctg 288900
tgtattttca gagccagtga cccctctgtg gatgcagtag actcttggtt gatcaggctg 288960
ggcagtttgg gccaatctaa gtaaggagga ggatcttaga aattgtgatc gttactgga 289020
gcatcgtctt gtgcctgaaa ggaccttttt ttattttatt aacaaaaaa accacaggta 289080
cagtaaatta cctgtctcaa ttacagaatt ttctgtagtg cttttatgtt agagatgaga 289140
tttcattgta gaatgcttta ttgcaacat ggacacttcc ctgtaagttt ctattgtttt 289200
tgttcattca aactagggaa ttaagcagtt attcaagatg ttcaagatgc tccttcattt 289260
atttaggggt atctgttgtt tttttttttt taagtatatg cattgtttca ttgtttactt 289320
ttagggaaaa agaaatagtg gtttcagaca gtgcttcttc gggagccaga agcactgcaa 289380
gttgacaaag ctttgtccgg caatggggta cacattcagg ctggccgctc gaaacgacat 289440

```

tggtaccagg tatgacgttt ccttgcctc ttgcccttca gcctttggat ggtgatcctg 289500
agccttcttt tacatagctg gaaggcatga ggaagcctgc tgcctccaca ctaaatacaac 289560
tggaggtttt ccaagaggga atcctaataca gaggagagaa ggcctccttt aagctggtga 289620
atgtcactat ggcctctgca gtcttgcaag ctgtattgcg aaggccccac taggggtctc 289680
taagaaccaa ggtgaaggta gcagtacaga tcttgaaagg aattcctctt ggagctttaa 289740
tttttttagat cacatgcctt tttcttttat cacttttagca agctcttcat tcacttgcct 289800
tttttcaatt atgtgagtgt ttcctggtag aaagaaagag atgctgggcc agccattggt 289860
gtcaagccca gggcagatac ggaattggag aaaacctgga ctgtcttaga ggcctctgca 289920
ggcctctagg ctgtatgaga aaggcgagaa cgggtgtact gtaaggatc aattgattaa 289980
agaggctttg aaaaggccat gtttcagttg cacttggggg gtaactcttc attaaggga 290040
aaatcttttt ctttcatcac tgcttgttga aatcttctta aaggttttgc acatcggtgg 290100
tccccaaccc tctttccaac ctaaagaacc tctttttaac atcacaagt tttacagacc 290160
tgcctccacc accatggtag ccattacagc ttcagagttc actggttgaa aaaataccga 290220
cacaaagccc tttatggctc aagaattttt aatgaattg gaagcatcca caaacttttg 290280
aaaaacagca ctgtatatat tgtaaaacat tatttcatca acaaatattt gttgctcaca 290340
ttgatttgaa ggctccttga cccgtaactt gataaacatt gccttgtgct ataccttctt 290400
tccagtgcct ttgagggggg aaaatgaatt cttaagtaca attgtccttt ggtttccaca 290460
ggggattggt ttcaggactt cccccacctc cctgccatga ataccaaaat ctatggatgc 290520
cccagtcact gatataaaat ggcatagtct ttgcatataa cctacacaca tccttctctc 290580
cttaaactct ctctaacttg ctataaatat ccaatataat gccacacgt cacttcattc 290640
acgtggactc aagatgcaga acccaaggat acagaaggcc aactgtatat tgtcctgtga 290700
cttgggtgtg gtgtctagta gaagatcatg ggggtggggg atggggaagc tgaagggtgt 290760
tatagggaat atcacacaca gcaccttac ctggctttgc ttactctacc tgctaggctg 290820
agttgggtag tgtgcaggct gagccttcct cttttaaaat gccaagcctc ttcacatgct 290880
tctaactgtg tgcctcactt tctttctcta cagtggttat agccaagagg tgggtgtgcta 290940
cacattagga aatatccctc agatgccttc tgcaccaagg ctggttcgag ctggcatcac 291000
atgggtcacg ttgcagtga gtaagccaga aggtgttca cccgaggaag tgatcaccta 291060
caccttggaa attcaggagg atgaaaatgt gagttttaca gattttatac ttctctgtgt 291120
tttgtacgag tcagtattat tatagctaca gggcaccatg aaattagatt aactgcata 291180
gttcaaagcc aaactcttaa tttctgctc tgtcaccacc actaccaaca ccggcctgtt 291240
ctttcccatc tctgtaaatg acatttccat ctttcagct ggggaagcaa aaactcttgg 291300
agtcacctt gatcctatat ataatacaga aatccttttg aatcttctt agaaattatt 291360
tagaaattaa ccatttttat ctccacagct actatccttt tatgagccac tcattctacc 291420
tgtggattat tgcaataaca taatattgtt attggattat agcctcttaa tattcctaac 291480
ttcatcctta ctaggcttca gtctgttctc catacagagc ctgggtggag aacatcatct 291540
tgtaaaatac aaatagatca tgtcagcacc ctgctcagaa tccttctgt ctcagtgcct 291600
tccccctttt ttcagagtaa aatccctaga gctcttaca tgcccacaag gtctgtgtgt 291660
attgggctct ccattactgt cctcgttgct tccactcact gtagtcttat tagcctctag 291720
tctgttcttt ttgttttgtt ttgtttttga gatggagtct tgctctgtca cccaggctgg 291780

```

```

agtgcagtg ggcgatgtt gctcacctca agctccgcct cccaagttca tgccattctt 291840
ctgcctcagt ttcccaagta gctgggacta caggcgcccc ccaccacacc cggctaattt 291900
ttttttgtat ttttagtaga gatgggggtt caccatgtta gccaggatgg tctccatctc 291960
ctaacctcat gatctgccct cctcagcctc ccaaagtgtt gggattacag gtgtgagcca 292020
ccgcacccag ccagcctcta gtcagttctt taaacacacc gtgtgtgctg tggcctcaaa 292080
gccttttctag ttctgccttc tggccagaat gcccttccag atgtctttga ctcccttccc 292140
tcattttctt caagtctgtt ctcatatgtc atttctttgg gcagtccttc cctgatcaca 292200
ctgtagaaca gcaccacca atagaacttt ctgcagtgat ggaaatattt tataatttgt 292260
gccatccagt atggtggcac ctatacacat acaactctcg agcacctgac atatgcatgt 292320
tggcctatag tatggagggt ttgtgcttgt ttgtttgttt tgagatgtag tttcgcttg 292380
ttgtccaggc tggagtgcgg tgggtcaatc ttggcctct gcaacctctg cctcccaggt 292440
tcaagtgatt ctctgcctc agcctcccga gtagctggga ttataggcac gcagctccac 292500
gcctggctaa ttttgtattt ttagtagaga cggggtttct ccatgttggt caggctggtc 292560
tcgaactccc aacctcaggt gatctgccc cctcagcctc ccaaagtgtt gggattacag 292620
ttgtgagcca ccaagctcag ccagtactga gtttttaatt gtaataaact taaattcaaa 292680
gagccacata tggctaccat atttacctcc agcagctgta gaaagccctc accagttcca 292740
ccactgtatc ctctaccta gcttttagtt ttgtcatagc acttaacacc atgtgacata 292800
catagcagct tttctgtatt gtcttctccc actggaatgt gagcttcttg tgggcaaggc 292860
cttttctgtt ctggggcagt gctgaatcct tagagcctag aggacagccc aacacagaga 292920
aggtactaag tagtattttg atgagtgaat gatagaatga tagagataga actattgaat 292980
gagttccctg agttcaactt ttagtggaat gtttgcctc cttaaaggatt gtgccctttc 293040
ccatctaagc tgcctttct cccatggcca gaagagggca ctgtgtggtc aggaagctca 293100
gccacacttt actgcatagc acattgcagt ttgatagtaa agacctcggg gcaaagggt 293160
tttttcatga caacattaaa aatgttaaat gtattttcaa aagttgctta actcctttgt 293220
cacaataaat ttgaccagac ccaggagaaa ttacagtgtg atggagataa atttttattt 293280
aaagctcaag tgctatccac aatactctgg gcttctgatt tttctctttt gcggtagctg 293340
ccagacctct ggccagttgc tggatgaggt agggaaaggc agtataaaaa tcctgtattc 293400
aaaggtattt aatgcccaga attttttata ctgatgtttc ttcttggtt tgccttttca 293460
ggataacctt ttccacccaa aatacactgg agaggattta acctgtactg tgaaaaatct 293520
caaaaagaagc acacagtata aattcagggt gagtcagtca ttttgctacc tgaactgctt 293580
aaaaatgaaa ctgttttcta tttcaccatt taccatgtca gattgactct acagggttaa 293640
aaatgaagtt cacagcactt tacattttga aagtaacatt tataaagtgt acaacatgct 293700
ttattttatt atttgagatg gagtctctat gtcactcagg ctggagtgc gtggcacgat 293760
ctcggtcac tgcaacctct gcctcccggg tttaagcagt tctctgcct cagcctccc 293820
agtagctggg actataggcg tgtgccacta tgcccggcta attttttttt tttttttttt 293880
tttttttttg tatttttagt tgagacgggg gtttcacat gttggccagg ctggtctcaa 293940
tctctgacc tcgtgatcca cctgcctcgg cctcccaaag tgctgtgatt acaggcatga 294000
gccactgcgc ctggcccatg ctttaatttt aaaaccaact tgtgagcaca aaaattgtca 294060
tcatgtgctg taataaattg catttacagc atggccaaat gcccttgcct gggaagagac 294120

```

acaccaggtg ctggagtgca cctgtcactt acctgcactc catacctttt tcctttcgag 294180
cagtctcttt gctcttcact ttcctttgct cttctgceca tttatttttc ctcacttgct 294240
tgtaattttc tcttccatga cccaccccct ccctacctgg gctgtctttg gtcattaaca 294300
gccaccatta atgttactat aggactatgt gtagtagcca aaaaagtga tatgacttta 294360
cgatcactaa gagatcaaaa cgatattctg cagcactgta ttttctagta tgacaagtg 294420
gcgttttgga agataagatt gtcttctgat tccacacatt cttctctaag tcagggacca 294480
aatgctatta tttggcacat agcaatcact caataaatag ttgccaaatt atcaagtga 294540
gtgtgtgact atttgaggga aatgataatt tttaacatat tttttaaaac ctttattatc 294600
gatgctggct atgagaacat agctatactg ctaacgtttc tccacaaggt ggcattgccc 294660
tacgctttta aaagtggggc ttttttatg tcccccccc cacccccata ttttcctttc 294720
acaaaacaat acaaaccagg tgatgacata cttgttttat catgtctttt tgaaagggt 294780
aaaatatctt taaaacccat cttatcattt ttttttatt tttttattt ttgagttgga 294840
gtttcgctct tgttgcccag gctggagtgc aatggcatga tcttggtc caaccaacctc 294900
tgctcccag gttcaaggga ttctcctgcc tcagcctccc gagtagctgg gattacaggc 294960
atgtgccatc acgccagct aattttgtac ttttagtaga gatggggttt ctccatgttg 295020
gtcaggctgg tctcgaactc ttgacctcag gtgatccacc cactttggcc tcccaaagt 295080
ttaggattac aggcgtgagc cactgtgctg gctggtttta tttttaattg ttaataacca 295140
actatacagt aaatgattta taaaataaat actgttaata cttgagttga aagagaaaaa 295200
aatgtgtgtg tgtctgagtt tatgggtgcc ttaatctcac catgttaaaa agtgaccatt 295260
aatttaatga tccctgataa ctaaatcatg ttaacgtttc cttggtttgt ttctagctga 295320
ctgcttctaa tacggaagga aaaagctgtc caagcgaagt tcttgtttgt acgacgagtc 295380
ctgacaggcc tggacctcct accagaccgc ttgtcaaagg ccagttaca tctcatggct 295440
ttagtgtcaa atgggggatg ttttgctgct gctgctactg ttttttttt tttttcttt 295500
tgatagattt ttaaaaaatg attcatttta gtagtgacaa gccaaaaaa ttgtggatgg 295560
tatttgcaga agttttctgc attcggaata tatgtgtgag aaacatcctg agaattctac 295620
aaattggaat ggacaatttc attaaaatgt aatcgtaatg gacaattaaa ttttagtgga 295680
aattaaaatg gatgattttt aagagtatct cattactct atgattttcc tgtttacata 295740
ttttttctc ctatattttt aaggcatgga tttgaatgta gtaatctctg catgcatcgt 295800
tcattcttca atagttcatc cttaaaaaat tagcaatact taatagaaaa attttgattt 295860
ataaagttaa tattgaaaat aaatttcaaa atttaggttt gtttaagtaaa ctttagcata 295920
cagaacattt aagttgcaat gaattaggga tagttttgtt tccattgggtg tttgttgtat 295980
aaagtcttga actttgggaa attttaacat taaagttcat aaggagtttg aggttgtctg 296040
gcaaaaggat attgtgcctc acctctgttg tgtgaattat ttcaataaaa tgaatacaat 296100
tagaaggttg acaattaata tgtaaaagtg ttatgcgtat ctttttact aatgtcataa 296160
taatattaac taataggcaa aaaaaagt gaaatcttaa ataaaattt accttgcagc 296220
caagtaatat aagggaatt taaaacatta ttacaccaac cactgagaca tataactgtt 296280
tcaagttacc taataattgt gagatagaat tattaggatt tctgtttccc caagagatgg 296340
atataattca gagaaatgat aaaaatctag atgtgctttt agccagacca tagagctttt 296400
ctctcaaaga acctcagaaa gttctgtcaa cactacttac tttcattggc tatatgctat 296460

```

aatatttaac tttataatta ttattgtaaa tatctactac tgaagtatat atacattaat 296520
ggaaataacca ggtgaaggag aggggaagtg aatgtttctaa atttatatat aagtaaaact 296580
taagattttt tagaaaaatc tccgctatgt ctaagaatat agaagtggca gactgataat 296640
aagggtacat tctttatagt ttgcaaaat tagactgcaa aggaagtgtt tttctgctca 296700
gaaaataaaa ttcctttagg cacagagtta tgggtagact atatacccaa ggtgcctagg 296760
gctctagtc taagccagaa ctttcttcct cagactgtct gctggtgcac tggttctcat 296820
tgatccacac ctctggtttc ataccacatt cacctgggat gctgggatgt aaagtttgct 296880
tggtaggaaa ctgctagaat ggacgtattc cattttgata ttttatttat tttgtcaata 296940
aattttgtag ttctctttcc gttcctttcc atcactcaaa agaactttgt tggccgggca 297000
cgggtggtca tgcctgtaat ccagcactt tgggaggctg aggcaagtgg atcacctgag 297060
gtctggagtt caagaccagc ctgactaacg tggtgaaacc ctgtctctac taaaaataca 297120
aaaaaattag ccaggcgtag tggcgggcgc ctgtaatccc agctacttgg gaggctgagg 297180
aaggagactc gcttgaaccc aggaggcaga ggttgccgtg agccgagatg gcgccattgc 297240
attccagcct aggcaacaga gcgaaactcc atctcagacg gaaaaaaaaa aaaaacaaaa 297300
gaatctagtc actgataaaa taagtgaat aaaaagaata aatcagaaa tatgaacata 297360
cagtcttaca taaaaatcat caaatatatt aaagagcacc ttcaagtaaa ttcaacaact 297420
tgatcagttt gtgccgagtt ttttgttcat atttactac atgaatgctc tttgacattt 297480
ctatatctaa gaactttgaa tagtctgata gtattcagag attcctggtt tgtttttttc 297540
ttttttttca acagaggagt tggtgaaata aattattttg ctttttggtc atgtctagaa 297600
ttcagatagt ataatggtgt gtgattttat gagtctgat gatgtttacc aataaaaatc 297660
aatatccttt tattgcta atagacattt gttattttcc agatccccct aaggacaatg 297720
gtggttcaga aatcctcaag tacttgctag agattactga tggaaattct gaaggtgaag 297780
tttttggtcaa ttgttttatt caaatccaat agcaagctct gttttcta atagtaa atg 297840
tctttatagt aatagttagt aatcattaat tctaaagata gaattattat tacaataaac 297900
aaacttttagt cacatatagg cagtttttct atttcaaaca cagcaccaga gatcagagtc 297960
tacttgaaac ttacatttgt gttatttaac aatttttctg tatctttttc attggtgttt 298020
tgttttgttt atcttttgtt tttgtttctt tggtttggtt tgttttggtt ttgttttttg 298080
agatacgatc tctgtcacac aggttgagg gcagtggcac aaacatggcc cattgcagtc 298140
tcaaaactct gggcttaagt gactcttctg ccacagaaga tgaggaagaa tacatttttc 298200
atagtgatgg ggtctcacta tggtatctag gctggtctca aactcctggc ctcaagcaac 298260
cctccacctt ggcctcccaa agtgctggga ctatagacat gaatcaccac actcagcttc 298320
catgtctttt tatgaactag ggttccta ataatcagata aatttggtat tttcatctcc 298380
taacttgcca tatgttttct ggaaattctt ataagcagcc gagagtgggtg gctcacgctg 298440
taatcccagc actttgggag gctgaggtgg gtggtcaaga gatcaagacc atcctggcca 298500
acatggtgaa acccgtctc tactaaaaat acaaaaatta gctgggtgtg gtggcaggca 298560
cctgtagtcc cagctacttg ggaggtgag gcagaagaat tgcttgaacc cagcaggcgg 298620
aggttgtagt gagctgagat tgcaccactg cactccagcc tggtgacaga gtgagactct 298680
gtctcaaaaa aaaaaaaaaa aaaaaattct tataagcaaa gagagtatca gaggcaggaa 298740
ggggaagggtg gagatagtga aaagggttag gttcagtaat ctacaaattc ccatgcatga 298800

```



```

ttaaacagta tatagtattg tgggctagtg acaagaatca cacttttata acaagtttag 298860
aaaatgtctt tccaacttca ttgtcatitt gcttcaggtt tttgttacta ttcatactgg 298920
gtggattaac atgggacaaa tgtagaaat aaaattcctt agtgcctttt taaaaattct 298980
aaggttttct ttctaataaa attcattaga ctttaataga gaaaagtata gtcttcaaaa 299040
ctttttaaat gacatatcat ctcaccactg taataatctc tctaactatt aaggttttgt 299100
tttgttttgt tttgttttgt tttttgagac ggagtctcgc tctgtcgccc aggcgacaga 299160
gtgcagtggc gtgatctcgg ctcactgcaa gctccgcctc ctgggttcat gccattctcc 299220
cgccctcagcc tccggagtag ctgggactac agacgcccac cactaggccg gctaattttt 299280
tttgaatttt tagtagagac ggggtttcac cgttttaccc aggatagtct cgatctcctg 299340
acctcgtgat ccaccacact cggctctcca aagtgtctggg attacaggtg tgagccaccg 299400
cgcccgcccc accattaaat ttttttttaa atggcacatg ctaatgccaa aaacagagag 299460
cattgataaa acttttacia gcaagcagtg ctgatgtgtg gctggctttt tattctgtac 299520
catgagaacc acctggaatt tttttaagtc tgttggttcc tattttaagc tgaaaacatg 299580
agaattcttt tgagatgagc acagctgttc taaacataaa atcatatttt gtggttaaaa 299640
acctggttta gaactgctgg gcatggtggc tcacacctgt aatcccagca ctttaggagg 299700
cgagatgggt ggatcacgag gtcaggagtt cgagaccagc ctggccaaca tggtgaaacc 299760
cgtctctgct agaaaaaata caaaaattag ctgggtgtgg tggcatgtgc ctgtaattcc 299820
agctacttga gaggcagagg caggagagtc gttggaacct aggagtcgga ggtcgcagtg 299880
agccgagatc gcaccactgc acttaagcct gggcgacaga gtaagactct gtctcggaag 299940
aaaaaacaaa aaacaaacaa acaaacaaaa aacctggttt agcttttctt cattagaaaa 300000
accaactag gttagaagtc atgtatatgc cagtggctcg ttgtgaatat ttaagtatgt 300060
tttgaattct catggctccc tttagctact gatgacaaat caaaagtagg ggcccttctg 300120
gacttccagt taacaacttt gtgactgcat ggctgagtga gtgattgaat cttttcagta 300180
atccttgctc ccagtcacct tttcagtaca ggtttttttg acctgtaata tcaggataat 300240
tgcctttgct attgcctttc ttcatatggc cttagtgcac gcgactctgt tgtgaatcta 300300
aactaataag ccgctggggg aatttgtgga agttactcta gttaaaatac cagggaatag 300360
aaaaagcatt tcccctaaaa caacttcatg tagtaaaagg cttttgtaaa gtggtcaact 300420
ggaaacacag cgtgagtggg aataaaacag aggagtgaag agcctcccag tggcctggaa 300480
ttgtgagtca ggcaggcggc tgaggcagcc ctgggtgccc ttgcttctga cggcatcagc 300540
cttggggggc acccagactc ctggtgaccg tttctctctt cagttccaca aagcggtcag 300600
atcacttggg tcatgccaca tttggtcttt aatttgtcac ccccgtaggc atttttgtct 300660
tttttttttt ttttttttga gagagtttca ctctgtcgcc caggctgggtg tgcaacggcg 300720
caatctcggc tcaactgcaac ctctgcctcc tgggttcaag tgattctctt gcctcagcct 300780
cccaagtagc tgtgattaca ggtgcccacc accatgccc gctaattttt gtatttttag 300840
tagagacaag gtttcgccag gttggccaga ctggtctcaa actcctgacc tcaggtgatc 300900
caccacctc ggctcctaa agtgctggga ttacaggcgt gagccaccgc ctgtaatttt 300960
tgtcttttaa gtggagctcc atgaaggcag tcaaaagacc cagtttttaa aagaggattt 301020
cacttctttt gacctctagg cagataagaa cagggagaaa ttcttgcgta ccacccaga 301080
cttgccagaa gcctcgtggc caagaagtag ccccgctgct ggctgcccct gaggcctcct 301140

```

cacaccagga gcatttgata gcttgccac ccctgttctg tgtctcctac cactccctcc 301200
atgccagcgg cacgtttcat tatggtttcc cacatccaaa cctcatagca aatgtaattg 301260
tggtgataat aggtagtcta gccagcaaca ctaagtatta aaaatgactc aatgttattt 301320
tggtatttaa ctttgtaaaa gaaaaaggaa gagctttctg gctattttaa aagaaaaaga 301380
agatgttggg tttcatgaaa acatagagct tttcttgtc agcaatggct gatatgctac 301440
atttttacaa gaggcataaa gtcatgcata agtcttgttt tacagcgaat cagtgggaag 301500
tggcctacag tgggtcggct accgaataca cttcaccca cttgaaacca ggcactttgt 301560
acaaactccg agcatgctgc atcagtaccg gcggacacag ccaggttggg tttgtttcca 301620
tatgaaagta aacctcattg atcaaattcg gacaaactgt ctataacatc agaagcaaat 301680
tgcagtttaa acaatgtatc ttggtaatgc aacctaatag tatcatgtca ggaaatgaaa 301740
aatagagctt tctgaattgc tgttttagagg tataagatag gcctaaatga ttccctactg 301800
aattgtggta ttttcgggta ctttgtcac tctactattt ctcagaaggc ttgacataa 301860
tcacctgtga cagttgaaaa ttgtctggaa tttgcattga ctaaataaag gagacctcgg 301920
ttattgcaat gattaaaaaa ctatagattt tagagtaaaa agataagacc tgcacagcac 301980
tgctgttacc acatctatca attttaagaa tttgagacat accttctca aggtacttta 302040
ctgccatctg ctggaaagtt gttgcaaaaa caatataaat ccatgatgac tgagctgagt 302100
ggcacctcct gaagtgtgtg ggtacccaac gtacacatct gtaggcagca tccattcttt 302160
tgtttctact atttatatga ctttagacta acctgttaac atgtcaggag ccttagtttc 302220
aaccacatag tactctcata ggcgcaaaac aacctaataa atatacatgg agtactctag 302280
aaataattgt tatctaaatg gttttaactt aactcagaa aagtgaatga gaaacgagat 302340
gccaaaagat actttcactg tagagatatt taacattatg atttgaaacc actaaacatt 302400
taaaatgaaa gagaaggaga gatgggtggc tacagccctg tgctgggttg acttttcaag 302460
agaataacctg ccatttgaag gcctaacttt tctagtcaac ccacttgcaa catcagtttt 302520
tgtgtttact ttcttttgcc cccaaggatg gtactagggc atctagactg cccatgtaga 302580
cactgcctgt gaggagaagg tccagctgga ccatctttat acagtgccga agctgtctgg 302640
aatgcctccc aggtggagta aatccaaatc aaagctgaga ttatcagtgg tccttcctat 302700
gtgtgaggca ctacacaagg tggcactgag gctgaactgc tcaaatgcat agagttcatt 302760
tcctctgtgc cacttctcag gaagaaaact gaatgtggct gagctgtata gctctacctg 302820
attttctccc gtctcaggaa gtaggtcagc ttccatacca ctacgcttac gcaaccagat 302880
cctgcaaaat aaaggactgc ttatttttagc attaacagta cctgctggtt gatgtcagaa 302940
tcaattgatt aatattgagt ttatttgctt ttctgctctg tatgtgagtg gttggccatt 303000
tatgttacca ttttaaaatt tcatccagct gtcgttttgt gttctcttct gtctcatga 303060
agggtctttc taattttgat ttgaaggaaa agaatttgtt gcttaggata tacagtactc 303120
atgtctgcta atctaacttc aaaaataatc attcttgttt ttcccagtgc catatgaagt 303180
ctatagccac ccttaaaaca cacacacata aatttatatg aagatcttaa ttacattaaa 303240
agcataccat aatgtgcaca ctttagtgt gtaacccctt ttcggtaca tttgcagtta 303300
tggggtggaa tttgcctgat atgtagaggt ctgataaatt cacagtaact aagagatggg 303360
tctctctggg gtttctcctg cagtgttctg aaagtctccc tgttcgcaca ctaagcattg 303420
caccaggtca atgtcgacca ccgagggttt tgggtagacc aaagcacaaa gaagtccact 303480

```

tagagtgggg tgagtgaact aaccttcaca ttgacattga caatttggac aattggagat 303540
gaagacttat gctttgtagt taagtttcaa agctttcttc taaagaccat atacgttttt 303600
gtctgttgag gatgtccata ttcttcttga agtatgttga cccaggtttt ttatgtgtgt 303660
cattcccccc atccacaccc gcaacactgt ccctcacctt cctcttcctg atgggtgccac 303720
acacatgggtt tatccccgc acttcagggg acacatttct agggagtatt tcaagaacag 303780
ccagtctttt tcagaaaagt ttcaacttta ttcatgggaa aaaaattttg tgctccattt 303840
agaatttaaa ccaaagaatg gtttataaga tcacatggaa ttctttctcg tctttgtttg 303900
caaccacctc tgctgcattg tcctgtgtgg gtctgatgt ttttacagca ttgatttaag 303960
ctgtatttagc gtttctgtt gtgtccagca gtttacaaca tgtataatta caagtacaaa 304020
tgtacagaac tctctagcag actatTTTT cctaccactt atgtctaaag tataataaat 304080
tgtgccaaat tggggctcctg tattttgatt tagcatgacc tttggtttcc aattaaagag 304140
atTTTTcttc cctcttttct ttccatttac ctagcattag aatatgaaga aatataatcta 304200
atgttccat aattttggga ttattttatc aatgtaatta aataaacttc agtggaccgc 304260
ctttggagag tatggataac atcattcaga aacttttatt tttatatctc ttttttgtg 304320
ggcatggatt cttttgtaag ggagatactg aggccggcca cctatgtgat attttgtca 304380
acttgtgtga aatctgggtc acttttgtca actggaagca caaagtgttc taagatgaaa 304440
aaaattcttc attcccagat gttcctgcat cggaaagtgg ctgtgaggtc tcagagtaca 304500
gcgtggagat gacggagccc gaagacgtag cctcggaagt gtacatggc ccagagctgg 304560
agtgcaccgt cggcaacctg cttcctggaa ccgtgtatcg cttccgggtg agggctctga 304620
atgatggagg ggtgagtata agcccataca ccataaccag aatcagaatg cataatcaga 304680
acccaaagt ctagcacttc tgtctctagc ctctgaaat ttttgacagt cttgatgcaa 304740
ccttgacaac cattaatgca gtgtctgtaa atcttaattc tgagttgata ttgttgtgat 304800
ttcatataga cccagcatta gaagtttct gtttcttttg tcctcatatc attctatgaa 304860
gacagcactc aaggftaata aggatatcac cctgtagata ttttcgacag tttttgaaa 304920
atttcctatt ctattgactt tatcagttca gggaaattag gattagataa tagttctaata 304980
aaaagtttta tactgtcttg tctaaatgaa ccagcaacat cttaggtcag tttttacaac 305040
tagagaaggg tagtggccag ggacaccagc ttgtttttgt tttgtttcac gtgaaaacta 305100
caggactctc tccttctatt gctccatttg gagttgtcaa gttgagctat caaaaattga 305160
gaatatatat gtctatgtta tatccataaa ggttggtgtc ctttttttct ttgaaattgc 305220
caaatgatgt ggatttaggg ggagatgaat aatgagcagt gggagtccca gtaactgtga 305280
ggcttttggg tgggctcaga gattgatgaa gcataaaagg gcagaagcgt gtgggtaaag 305340
ccagctaaat gccccgtcca aagtgccagt ggtttgtgta gatgggctcc atgcaaataa 305400
atagaattaa ttaattgatg attttttaaa aaaataagac agcccaactt gcagtgactt 305460
tttgttttaa gtgaaagcaa gtttattaag aaagtaaagg aataaaagaa gggctattcc 305520
ttaggcagag tgcccaaaac tggatttctc ctaattctcc aatagaaaag aatttcagac 305580
acaacaatga tacttaagtg aaaacaaaaa agtctgaaca ttaacgccta tgtacctgaa 305640
cttataatca tgtaagcgaa aagaagatgg atagtgatga gcacactgtt gtgtctaccc 305700
cattctctca tcaacttttc agttactatc tgccacaaca aagataaatg tgcaactggg 305760
ctgggtgtgag ctgtactttt ctgagccctt tcaactgattt atcctataaa gaaactatct 305820

```

```

tcagcttggg tttattcctg ttgtattaga aattaacat atatatcgct gtagtcacct 305880
tctgaggtcc atttcagaga gcttcccaa ctcccagca tctttgcatg ttatgttgag 305940
aggtaggttt ttgtttcccc cctccccgcc gtcttttttc tctcattttg acaaggacag 306000
tcataatatt tgtagcctg gcaagttttt actctgctcc aaacctttga agtatcaaat 306060
atgccacat taaaatgggt gggtcaggtg gctgtgactc tctcaaagtg tggtaagtct 306120
ctagcaattc ctggctctga gcagtgtggt cactgatggt aacatcagga ttgccgtgga 306180
taccttgaa taggtgaggt gatgggaaca cactgagaaa acattacaga agcattttatt 306240
ttcaaaatgg aaaataccgg taactagaag aaatacctag aatttgatca ccaacaattc 306300
caagtatatt tttattcatt aaaaattaaa ctgcagtggg catctgactt agttttcttg 306360
gatgtcctct gagaaaatag aaagcagatt gcctgtttt gtcaaaaatc agcatatttt 306420
tatttcatgt cccaagaaaag ggaaaatatt ttgtcaacca actaattatt ttacaattaa 306480
aaaaatgaca gacatctact actcaggac tgtatatagg agaaaaactt acacacattg 306540
aattgaaagt gaaaatcatt gggtaatat ttgtaattag ttgtgttgat gatgatgtta 306600
gcctagcttt tatttggtta taagcttttg tatgcacaca cattcacaaa cacatacacg 306660
catatataca tacgtgtgtg tgcgtgtgtt ttctttcagt atggtccta ttctgatgtc 306720
tcagaaatta ccactgctgc agggcctcct ggacaatgca aagcaccttg tatttcttgt 306780
acacctgatg gatgtgtctt agtgggttg gagtaagtc aggcatttc tgcataact 306840
tctgtttctt ctactttact cccaaataca aataccaatt ataaggaagc tgcaaatcca 306900
aaatgcacat atagatgatt tttttttttt ttttgctctg tgtactatag taatcacctt 306960
tggcacttgc cacttgctta tattatttag gttgttgaa gttttactgt agtcaaaact 307020
gagaggaaat ggtttctcat gcctttcttt ttgtaaaaaa ttttatttta ttttacttat 307080
tttatttttt ttgttgacag agtttcaatc ttgtcaccca ggctggaggg cagtggcaca 307140
atctcggctc actgcaacct ctgcctcct ggttcaagt attctcctgc ctcagcctcc 307200
tgagtagctg ggattacagg tgcccaccac catgcctggc tagtttttgt acttttagta 307260
gagatagggg ttactgtgt tggccaggct ggtctcgaa tccttatctt aggcaatcca 307320
cccacctcag cctcccaaag tgctgggatt acaggcatga gccgccgcac ctggccctat 307380
tttattttta aatttctaaa tctcaaaaaa aattttgtgg gtacatagta ggtatatata 307440
tttgtgatcg tgctttctt ttatatgtat ttgaaatatt ctggggcatg ttgctctctt 307500
tccattttta gtaattgaa tacaagcaca gtaggattct cttctcagt gcattattaa 307560
ctacttccat ttctgccttt ccagagtcct gatagtctg gtgctgacat ctcagagtac 307620
aggttggaat ggggagaaga tgaagaatcc ttagaactca tttatcatgg gacagacacc 307680
cgttttgaaa taagagacct gttgcctgct gcacagtatt gctgtagact acaggtaggt 307740
tgacattatt cagatgttac tcacaaggac tgctgtccca tgaaaggcac tttgggaaac 307800
ccactcaaag gcttgtgggt gaggtgtca ggaggatga tatggaaaaa aagagtccat 307860
ttaaataaaa atatatattg ttgttttggt gttttgcagt taatttccac ttctctagga 307920
aattctgaaa ctaagaaca aaataagatt cttctccatt ctgcttctca ccaccttgt 307980
atcttgtctg ttcacagtt tgctgaataa atgaccaag tccaaggga agatgacaca 308040
gtccttagg gaaggagcct tctgtctcat tcccctgaga tgtacatttc agtgggaaag 308100
actcttagaa ctggtaaaag acagaaaatt attttacgag ctgttaaatg gagccaaaaa 308160

```

taatctggac tagtctgcat tagattacag gacccacact cccacctccc agtgacgggt 308220
atcaaggctg gttatctata agcttccact tgggagtcca gatagaataa catcaagaaa 308280
aattgggttca tagcctaacc cctcagagtg acaataacca tgggtttact tttattttac 308340
tctcttggct atattattat tttttctgtg taaagcctta gtctcttgag aaaatagagt 308400
tctttgtcct cctctttcca tttgttcagt aacatttctt gagcattata gtactttgta 308460
ccaggatcaa aggaagatca ggaagagaga tacaaagatt aatcagatgt ggttgttgac 308520
cttgaagagc tctgtcttca tacacattta gatttgaata gataaagaag caaagatgcc 308580
aaagtcaagt tcccacctga ttttaagtcatt ggatcaaatt cgttattata agtacacca 308640
atgtctctgg tctctttgga gaaaatattc gttcataac ttaatttttc agatcaactg 308700
aagcatttct gttaaattca gaagtctgct gtatttgaaa catttctgat taaactcttt 308760
tggtatacac ctttcttget tctcgaatga agcacctggg acataattaa ctttttgaca 308820
atgagtcagt gtcacagcaa attgtctgat atttataata gtgatgctga gtcactgggg 308880
aaaggttaaa ttatgtgcca cactcttgtt tttctacca ggcaggatat aaataaagag 308940
ctgtctgcca cccagtaaa gagcttccact ccattatggt ttttgagttt tgggtgtttct 309000
ttaaaatgtt attatatctc cttctctttc agagtctatg ttgtcttagc attgacttcc 309060
caaagctgca ttataaaaaga tacattaata agaatagtag ctgcataatc ttgcctcggt 309120
gtattaacag gagtagaaat atattttcaa aggtctgtgc ttattttataa taaaatgagt 309180
cagatcttat gaaggagta ctacttttaa gattaccatt gccacactaa aggactattg 309240
ccaggaaggg ggtctgttca aactatacca atttattgtt atttgtggac caaatatgaa 309300
ttattttcat tcaacatgat tacaaagtca agttaaaccc caatattttt tgaatatatg 309360
gcacttaaga atttaaatat tggccgggca tgggggctca cacttgtaat cccagcactg 309420
taggaggctg aggccggctg atctcttgag ccaggagata gagactagcc tggacaacat 309480
aacaaaaccc ctctctaca aaaaaaaaaa atacaaaat tagccaggca tctgtagtcc 309540
cagctgctca ggagcctgag gcaggaggat cacttgagcc aggtcaaggc tgtagtgacc 309600
tgtgactgca ccactgtagg ccagcgtggg cgacagagt agagcctgtc tcaaaaaaat 309660
aaaaatttat tataatacct gtactgtgtt ttatagaaat gtggtggaac atttcttgtt 309720
ttgctcagga atttttgaat tttgtattt tcaggactgt ttaattaag taccaacgta 309780
attccattca tagggcatgt tgtatattat aggcatacta ttattttaca aaagttgatt 309840
ttgaattaaa tttcatttga aaactgttaa taaaaagtgg tgtaaatcaa gaaatgtttt 309900
ccatagagcc aagctagtta aaaagaaagt aggatcctgc agtagaaaaa gaacattgga 309960
agaattggta agattctgat taggtctgta tgtaaatagt atagtatcag tgataatgtt 310020
tttcttttct tttttttctt ttttttgaga tggagtacag ctctgtcacc caggctggag 310080
tgcagtggcg cgatcttggc tcaactgcaac ctccgttca caggttcaag cgattctcct 310140
gtctcagcct cccgagtagc cggtgattaca ggcgcctgcc accacgcctg actaattttt 310200
gtatttttag tagagatggg gtttcaccag gttggccagg ctggtctcga actcccgacc 310260
tcagatgac caccgcctc agcctcgcaa agtgcctggga ttccaggtgt gagccaccgt 310320
gcccggccac cagtataat ttcttggtt tgatcattat tctatagttc tgtaacatgt 310380
ttctcttcgg aaaagcagag taggagatag acagaaattt ctctgtacta tttttgcaac 310440
ttttctgtaa gtataaaagt agtacacaat aaaaaggtgt ttgaaaaaat agagaaaata 310500

ctattttgtt cataattttc ccagtgggaa ggaagaaagt gtagctccta ctgttggcct 310560
 gatactctgc cagcatttta catattaacc gatttaatct ttactgtaat tctatgaatt 310620
 aggcattact gtccccattht tacagctgag gaaacaagct cagagaaatt aactaaccta 310680
 agatcacaca gttgttaaht gatggaatca aggtttgaac taagcttcaa ctcttaaaag 310740
 ccatgttctt gtccttctgt gatatggatga taaaagccc tagttgatag aaacattggg 310800
 ctccatgata tcctatthtt ctgcccctgt gatacattht tatcagtacc aaaatctcga 310860
 aatacatact tataaaaataa tttgtcatgt taaaatthtt ccagaaagag agttgaggta 310920
 ttgaggatatt gtaatgaaac agaagtgggt atgacaaaat gttgcagtag agtttcaact 310980
 gtgatttaath agcaaaaataa tgctttaagc ctgcttcttht gaaattaaca aaggagttat 311040
 aagttthtgtt ttagacctg atttaagagc taaaacttag ctgggtgtgg tggatgtgc 311100
 ctgtggttcc agctactcag gaggctaagg tgggaggatc acttgagcct ggcaagcaga 311160
 ggttggtgca gtgagctgag attgcgccac tgcactccag acagagacag accctgtctc 311220
 aaaaacaaaa aacaaaacaa aactcaact ctttagtht tgtaattcaa ctcataagc 311280
 tgtccaataa gctaaatgaa aactaagtht tagagtacat tcactthtgt aagaaagctg 311340
 ccaaatgttht ttctcttht aagaaagaaa atctthtga taacatttht tgaacacata 311400
 ctctgtatca agtacagttg ccagaaatac aacagtgagc cagacaggca actthtgcct 311460
 tatgtaactt gcattctaat cagaggagta ctatatacta tgtcagtgat aagtgtcatg 311520
 atgtaaagta cagcaaagaa gggaaatagg aatgtggaa gaccacagag gaaggattgc 311580
 aaagttgaaa tgtgttcaga gagggctcgc tgaacaggtg gcacctacag accttctctc 311640
 aatgaaggt gattgagtga gctgtgcaga tgtctggaga aaaagcttht tggacaggag 311700
 gagcagccaa gtgcaaaggc catgaggagg cagcaactt ggtgtccctg tggagcagca 311760
 gggaagacag tgtagctgga gcagagtcag taaaggggag agtagcaggc aatgaagtca 311820
 cagtgtcaat gggthtthtga aggggaatgg tggatgaacag cagatcatat agtcctgtag 311880
 ggtthtgtaa gaacttcaa gthtthtctg aataagatgg aaacctactg aaggaatttg 311940
 aacaaaaaat ctcgataatc ctgattcata thtthtactga atcactctga ttgctgtgaa 312000
 thtagactat tgggcaaggg ccaacataga taccagctag gaggtcatta gaataaccag 312060
 atgggagaga gagtagttgg actagagtaa tacaggatgt gctgatggcc tggagagggg 312120
 tatgagagga agaaaggtgt ccagagatga cttaattht acttgagtgc tctgaaggag 312180
 gagggaaacc acaggagatg cagtcaggtht thtgtaaagga gggatgggat ggggatgagg 312240
 agctgtgtgg acattthtagt ttgagatgcc tgttgacat gcaagtggag atactcagtg 312300
 gttgaatata gataccctag accagtattht aaagcagggg actgggccac ccatccaaat 312360
 tggggagtag gttatcagtg gcgthttht cttgagacaa gacgacatct ccaaatgttht 312420
 gagtagaggt agaaaagagg aggtaccgaa gtactgaggg ctgatactca ccagcgthta 312480
 gagttcaggg gatggtggca accaggaaaag gtgattgaga agcagcagga ggtaaggtag 312540
 gaggagaaat aagtgtggca tcttgagac ctagtgatga ataagcatttht gaaagacctg 312600
 ggagtgatca aggtgtcagc tgtthtcttht gggtaaaatc agataagcgc tgacgattga 312660
 cttcagggat gagthttht thcatgtgga agatagaaga tgcctthtcc tathgtctatt 312720
 ccaggacagc tctagactta aaagtcagat gaaccggatt ccggtcccag cthtgcctct 312780
 aaatctgagg cctaagtht catctgactc tgagthtctg tctctaaaag gcgataaga 312840

atacctacca ttttaagatct accacagggg gttattatga agatcgtgta agatgatgta 312900
taaactgaaa taggtcatgc aaatataaaa tattatTTTT aaattatttg tcataagaaa 312960
cgatgggtggc catatTTTgc ttttaataatg gaaaaaatgt ggtagcatt ctttggaagg 313020
tggtcatcag atagtagaca ttttctagga tttatttcta cctgcatatg tggaaatgtg 313080
tactacttta gatttattta atggcagcta actcagaggc atcaaaatgt gctaattggtg 313140
taatatggcc tttgtcttgc tgttctgttt tgtaggcctt caatcaagca ggggcagggc 313200
cgtacagtga acttgtcctt tgccagacgc cagcgtctgc ccctgacccc gtctccactc 313260
tctgtgtcct ggaggaggag ccccttgatg cctaccetga ttcaccttct gcgtgccttg 313320
tactgaactg ggaagagccg tgcaataacg gatctgaaat ccttgcttac accattgata 313380
taggagacac tagcattacc gtgggcaaca ccacatgca tgttatgaaa gatctccttc 313440
cagaaaccac ctaccggtga gtgcaaggga gtagaaatct gcatcagcac atcagcactt 313500
ggggatctaa gtaaacctct cggggaaaat gaccaagtgg atgtcatctc ccagctgttt 313560
ctaagagccc agatgtccag agtattgtct caccttgatc cctcaggcca gaagacctgt 313620
gaaaaagcca cactggttca gggactcact ggacggtttt gtgtccactc taacctgcac 313680
cgtctctacc ccagagtgga ctcaaatcct caagtcagtc ctctgaacat tgaagtcaga 313740
aattataaaa gggctttggc aatatgttag cccaagaatt tggcttcttc cagaaattgt 313800
gccgacctta acagtggctt aaatgatggt aaaactttta agatttctaa aaggatggca 313860
ttggagatac gttgactttt attaaacaac ctatagtgtt ttaatgactt ctaaaaaaat 313920
atctggagct caggggttca actgaggga ccatgttga gaatcattgt ttactaatta 313980
aatgccaggt aaccgttgaa attatcaaaa acatcttcca cgtaccagaa agcacctcag 314040
aggatagttc tgttatggag aagatgaaat ggtttagtag tgtaggaact atggaaaggt 314100
gagcttagat ttggatagta aaacctcaag accctattta aaaagtattt tatgaatgca 314160
gcataaataa ttttaattcag tgtaatatg ccaaggctag tatattgagc tgaatgtgaa 314220
aagaaactca cattgggaga atgccacctt ttccttataa gatagctttg aagataccat 314280
tttagacaga tggaaattga atagcttag aaaaggcaaa tgtttgatct tggggaaaaa 314340
aaaaaaactt tagatagtct ttgctggcca atcaataaat tataaactgg acattacata 314400
cttgaggtaa aaataattca tacttgcttt ttcttttaca tcttgaagta gaggctgatt 314460
tttcaaaata atgaataggc taccaaatga aggaaaatca atcaaaacct taaaaattca 314520
aagtatgttc aatatcattc tatagtagtt ttttctggt taacatgtag gacagtttta 314580
cataccatt tctgtttata tacaaataga aaaaaatttc aaatatgaat tatcatattt 314640
aaattgtttc caattttaat ccattgttca ctaaatctga attacatttt atgagtcagt 314700
atttatcatt taataatagt acattttata ttttatatca tgaaatcata aactaaatat 314760
tagggaccaa gttcaattaa ttttttgct tgctaatgtt tataactaag atattggtat 314820
gcccgatatca gtaaatgagt attttttcaa taaagaaata taaacaataa aaaaaataa 314880
taataataat aattcact taagaccaac tggtttatag ctttaggaat tttagtttct 314940
atagtacaca attgggtata ctgtatagta ttaatagaac tctggtcaac ccacagtctt 315000
gttgttttat gtttcaaaaa cataattgca gtaattatag tgaaatacaa aatgagtatt 315060
tcagggaacc aaaggataa ttttggecca atcaactttt atttcacctt ttttctgtcc 315120
tataaattgg ttaaaatata aatgaacaga tcatgatgtt ctagataaaa acatgtggaa 315180

tgaaacattt taagcagacc atggagcttg gataaaagac ttgtttcttt tgtttgattt 315240
tctttttttt ttttttttaa gccttcagca gttacatatt gttctcatal caagcttatt 315300
ctttctctgt gttgccagga cagggttgta cacctctcta gtaaagtac taatgcaaaa 315360
aagcttcttc aatggatcgg tcatttctcc atgggtgcta ttatagcaaa ctaccattg 315420
gcttgctgac acactctgta gaaatttcac tagaattaca atactacttt taaaggcatt 315480
cctttaagtt tataattgag ttagaaaattg aatttgcctt ttaatttgaa ggaaaacagt 315540
attattaaaa atgaaaacct aactttgctc tgtgtgcttc cagccaagta gtcacagatt 315600
tggcaagata agagggtaat cggatcacct ggtatcaccc cttcccagtc cttggcttga 315660
gcactctcag tgacaggggc agtggttcta gcttccactc accaggcagt ccattctatt 315720
tgtggataaa cctctctata tctaaaatca actgctgacc ttagaacttc ctcaatagca 315780
gtgattctca aagtgtggtc cctggacca cagcattagc atcacctggg aactcgataa 315840
aatgcaaat atcaggtccc accccaaacc tacttaatta gaaaatctag ggggggggcc 315900
tagcacttgg tgctttaatt agcctttcag gagattttga tgcttatgaa acttgaaaac 315960
cttggcccta gagcagtgat tcttaaatgt cagtgtatgt aagagttgcc tggagaacct 316020
tttcaaaata cagggtgttg agccctacac ctgtaggccg caattggccc cagagggggc 316080
ctaaacatca ttacgttata atgtcagctg tctcttattt acccatccca ccatcattta 316140
cactgtcttc attagcacag gttttctata actgcctcca acctcttctt taaatgtttt 316200
caggtttttg gtggcctcgc tgatgtgcag tgcccagacc tccaggaatg gtctggttgg 316260
ctggctcaga gcagaccagg actattgcct tccttgttct ccatactgag cagttagtga 316320
ggttgccctga gattactttt ttttaaaaa ccttattata tgcctgactc agactgagct 316380
ggcaggcaac caaaacttaa agtagatttg tttgttttgc tcatttgtac tccttttgc 316440
aagtaaaaaa ggcttaaaaa taacatgtat tgagccctta ctatatggta agcactatgt 316500
taggctgccc agaagtgaat cataaatcat tttgtcataa caaggtgaga tgggctttac 316560
taggagacaa gttctgggta gttcagtggg agcagacgag tcagacagcc ttgacttcaa 316620
tcctatcctt catttattgt ctctgcaaac tttgggaagt tatttaagct ctctgtgcct 316680
cagtttcctg accattaaaa aggggataat aattttcact acttaacaga gttgttgggt 316740
attttgataa gaggtcaggt acctagtatg gggcctgaca catagtaa ataaatcag 316800
aaaatctgtt gttaatgttc ggtagggaag aaatgaactc aaagatgggt tgtgaccaga 316860
ttataggtag agatcttata ttagaaaacc ttatcettca aggttttttt gcctccagag 316920
cagggtatga gaagagcaag tctcagtgcc tggagctgga atggtggcat tgggtgtcaa 316980
ggagctttca ggagcaggag cttggtggga ggccagttcc gactcctcct ccaggaagcc 317040
ttctatgaat aactttactc ggagcccatc ttttccccac caaaagggat tttcgttgtt 317100
tgctattatt tcgtacttaa gacattttct gatgattatt ctcttcttct atgtttttct 317160
taattagatg ataacttagg gcaggggtgt tgtaaaagcc agcccatctt ttgcttctca 317220
ggccctcct accctagccc ttacctgcg ggccctctca gtctcctca caccacact 317280
cttgacatcc cgagctctga gatggccagt cctgatgagg gaagtcttcc cagctaagga 317340
tggtttgttt cgaaagtc atcttctttta atatattttg tagtagaaat ttgattatgt 317400
atatgtatat atttaaagtg cgtttagtaa ggctatgatc ttctaaagca ggagtgtatt 317460
tgcagtataa atgtgttcct ttaatgggtg atttttaatc aaaatttata aagaatgtgg 317520

ttcttttgatt tatttgattt gtttaaatcaa taatattagtg atattgatgg atattgcaga 317580
ctcctggaaa catgaagaga tttttcacat cagcctagcc aagaagaatt tgcttgggat 317640
tacattactt ctccaaattg gaaaggaaaa tgctacttcc cttgtactta atttgcagag 317700
ctgaagattt tttaaactga cataatgcaa attaaacaaa acaaagagac ctgcagattt 317760
tatctaagtt tcaagattag catgttactt gagctaaaga gaaaacttct caagtttggg 317820
ttttggatag actctaatta ataaaactta aagtttagtt tttattttct gaggtgaatt 317880
cttggagtgg ttcctcaggt taatgtttgt tttgccatt agtccaatgt cacctttcac 317940
tggaattagg aaattatttt ccctactgt gtttttcacc ctaaaccaaa acaaacagta 318000
actgccttag tcctcattca gctgtctcag ctcctgtgc tcagaggcct taatattttc 318060
cccagaatgc aacaagacat catttcattc ctttttatca gttcctcagt ttttttttc 318120
aattttgaat gttacatcat cattagaaat aattaatgtt agttcagtgc atcagctgta 318180
cacgtaaagtt ttcacgtatt ttcgctgaaa caaatgtgt ttttgtaaaa atgtaggata 318240
ggttgaattg agtattttag aatctaggta gttgatttca gggccagatg ctgttttaat 318300
aatgtgaagt aaacttggtg actcttctaa atgcctgctt ccttggcaga cggatcaatgt 318360
tgaactgaaa gtgtggtttg aattaaaaat ggtcatttgg taggatttgt aaccatattt 318420
ggccctgtt acgatataag agtatgggtg gccagacaca caggccttg cacctaaagg 318480
gagttctgct cagcctgga tctaactgt gtctgacatg acctagctga gctgcagttt 318540
cttcagttgt aaagcagaca aagtagctcc taccttatgg ggtcagcata gaaatcagag 318600
atgatattgt agatgtcaaa cctagctttc aaccctagt agtactctg tcathtagat 318660
caagttattt aacctctctg catttaactt tgatttcctc atctctaaag gcagatgtaa 318720
tagtagttcc cactctgtag tgcattttct ggaacagagc aagttctcaa tgtgtgtagt 318780
gatggttgcc attgttgttt tcttcagttc ctgagatctt tgtctcactc tcacctgtct 318840
gcggatggcc tagaaagaag cccatcctt cagctgttg tgagtcctg gccattactt 318900
ggaggaagtg ggatcagcaa gttactcatg ttgtaaagt aggtggtgta atagtgcagc 318960
cgcagtgaag acctgtccct gtgccagcac tgttgggatg gcgtgacact ctcaaagaag 319020
tcatcaggat aatgactcca aaaattaaca cttgaaaatt tgctagtgtt tttggctgcc 319080
ttgaatcctc tcctgatttt actgtggagt ataaaatatt aaaaattgga aagtgttct 319140
tacatccctt atcttagtta ggtaatctt tttgtaattg cagaaaaaag tcaactgtccc 319200
caatttatag ataagaaagc tgttacttaa aagtgttcaa taatttcccc aaggtctcca 319260
aattgatgag caggattccc aaagaggcta cactgctaaa gagggttaaa tgctaccaca 319320
gttttcttgg tgggtggtgt ggtggtggtg gtggtggtg tgggtggtgt ggtggtggtg 319380
gtggtggtgt tgatggtggc ggtggtgtgt gttaaggcta ggattatatg cctaggagat 319440
actcagtga agattagaga accctagagc taaagatata aagaacctag tacttaccaa 319500
aatactaggg aggttttag gaaggaaatg aatttacaac agaagccaaa aatcaaactt 319560
aaatttttt tataatctga tacttgatc ttctaaacta tttttaatt cttataagt 319620
atttaaatct cttagcattt ttttcttga gtatagaata gaacaacaat ctttaaggaa 319680
tcattacctc attttcttt gtgtattaaa gtagctaaga gctattcagg tggcacagag 319740
caaagggtag gatcacctag aatacaaggt gagccagcag atggcagaaa ggatcttggc 319800
ctctggaatc taggaatgtt tgtacctaga gtaaaggga ggaatggtg tttggacact 319860

```

ggaaggacct taatataaac cttgtaggtg aggaaatgtg ttacactggt gaagaaagac 319920
taaaacttaa tgtccggcctt aatttccttt tcctgagaag ggaaagagga tagtaatttc 319980
taccatcatg atgactgcct ttttaaaaag atttttcatt tccagttgcc gaaaaatatg 320040
ttacattcca atcatagaaa gaaactcttc tattaatacc ataaagcaat cttataagac 320100
tcatatggga ggcaaggaag agttctaadc tttcagtgtt ataccgagag acttatattg 320160
ctttatctac aaaagacttg atgcagcccc agtgtaatag aatctgggaa aagtaaggcc 320220
ctttgtaatg gagtttttgc tctgctttat cagagatgag tatttactac gttccaaact 320280
atgaggagat atttatctag ttttaggtga ttataagtag agctgctgta aacattttgtg 320340
tgcaggtttt tgtgtgaaca taaatattaa tttttctaga gtaaataaat acctgggatt 320400
gggattgctg ggtcatgtaa taagtatata tttaaaaggc aactgttttc ctatgtggtg 320460
atgccagttt tcattatcac tagtgaaata ggagagtcc agttgtacct tatccctgcc 320520
agcacttttt taacataatg gtattacatt gcgaatttag tttgcatttt tctaattggct 320580
aatgatgtca aacatgtttt tgtgtcetta tttgccatct gtattccctc tttggtggag 320640
tgtctattct agtcttccgc ccatttttaa tggattatth ccttaactga gttttgggag 320700
gtcattatac attctgggta caaatcattt gtcagatgta atattggcac atacattctt 320760
ccagtctcta gttattttca ttctcttagc agtgcaaaag tttcaaattt tgatgaaatc 320820
cagtttttta tttttttctt ttatgtaaga tcatgctttt catgtcatat ccaaaaactc 320880
tttacttaat tctaggtagt agattttctt ctgtgttttc ttcttaaaag tttaatattc 320940
tacatttaga tctgtgggcc cttttgagca aagttttgtg taagggtgta ggttgaagct 321000
gaggtttatt ttctcctat tgatatccaa ttatttcaac accatttggt gaaaagactg 321060
tcttttctcc attggattgc ttttgccact ttgtcaaaag tcaattggcc ccatttgtgt 321120
aggctctatt ctggagtctc tattctcttg tattgatcta ggtgttcttc tcttactgg 321180
taccacactc tcttgattac tgtagcttta tactaagtc taaaatcagg tagtgtgatt 321240
cttcaaactt tattcttatt tttaaatttt gcattagcta ttttagttcc tttgcctttc 321300
cacatcactt ttttttttta atgtataaag aaaagagatt tgtttggcct ataataaact 321360
gtaggctgta caaaaccttt ggttctgtag gctgtacaaa aagtgtggtg ccagcatatg 321420
cttctaata ga gccctcaata aacctttaat tattcagtc tcctaggcct ctggaggaga 321480
gggtccatgt ctccaaggtt tgtgaaatgc ctttaagggt cttttcccca ttatcctgaa 321540
tattagtacc aggtccctt ttaatcctgc taatctctct agcaagtgggt tgctctacag 321600
actgcattga ttcttctcct gaaagtactc tttcttctc taccacatgg ccaggctgca 321660
aattttctaa attgttactc tctgttctcc ttttaattat aagttctaac ttttaagtcatt 321720
tcctttgctc ccatactgta tcataggttg ttagaagcag ccaggtcacc tcttgaacac 321780
tttactctta gaaatttatt ttgccagata ccctaagtta tcaactctta gttcagcctt 321840
ccacaaagcc ctaggacatg gaaacaatgc agccaagttc tttgctccag ttcccaaaag 321900
ttcctcattt ccatctgaga cctccgcagc atggccttca ctgcccata ttcctacagc 321960
gctttggtea tgaccactta ttcagtgtct aagaagttcc agactttcct gtcttcttct 322020
gagccctcca gactcttcca gtgtctgccc attaccact tccaaagcca gttccacatt 322080
ttcaggatct tttatagcaa ccctctactc ctcaatatca attttctttt agttcatttt 322140
gtgttgccaa acaattctcc caccacaacc tcccaagtac tgggaccaca ggcattgtgtc 322200

```

```

actatgcccc ctaaattatt tttttgtaga gatggagtct cactaggtgg cccagcctgg 322260
tctcaaactc ctggactcag gcaatcctcc tgcctcggct tctcaaagtg ctggaattac 322320
aggtgtaagc caccacgcct ggcctaaaaat aacattttat atatacattt taactcttcg 322380
atttttaaatt catggatgat taaggtaata tgtttcttat ccataactct gtgctacaca 322440
tagcaaacat ccagctaaga tttttgcaca tctggatgcc atcccattac taacaatata 322500
tgcatgctta gctctagata aggacttgca gagattgttg gatgaggctg gcaaaagga 322560
gacatgaaat gtcctgttga tgagttgtcc tgtgtttttg actctgaagg agactcattt 322620
gttcccccat ttcatctact cttgatagct cacctacttc caaaactgac catgaggtag 322680
ctaaacggta gctaggacaa aatataaaaag cgtatcttta agatatcttc cctgagacaa 322740
caaacctatt ttttttaaatt taaagaacta agagatatct tgctaccgtg cttttttgct 322800
attttttttt taaaaggaga ctatagtctg tccactgagc aaccccgctg ttctatttgt 322860
cttgagttac tttaacttgt ttttcttcat tctatgttat tgcttttaggg acaagtaata 322920
aatactatgc tcaatgttta tttcgatga agaattgctg ctgctttaac ctgcattgtc 322980
tgtatttttt ttttcctttc tctaggatca gaattcaggc tataaatgaa attggagctg 323040
gaccatttag tcagttcatt aaagcaaaaa ctcgccatt accaccctg ctcctaggc 323100
tagaatgtgc tgctgctggt cctcagagcc tgaagctaaa atggggagac agtaactcca 323160
agacacatgc tgctgaggac attgtgtaca cactacagct ggaggacaga aacaagaggt 323220
gaggtggggg tgaggatgct cctgaagctt ctgtagcttt ggcttgtggg atgaaatctc 323280
aattgtacat ttttatttgc ttgcactaag accctcttcc ttcttgttca gaggttccct 323340
ttgacttgag ccctgcgttt tatacccgga gtcgttccct ttattctcta tttggaattt 323400
ctaaacattc taaagatcct gatttcccta catagcataa tatgcattt ttttccctt 323460
catcaagcca gataatggag agaaagtatc taaagaaaat tgtcaaattc aagttcacac 323520
tatgtaatat cattatatta gtcagtgtg cagagggaaa taagaccag gaagagatgt 323580
tacctcttta aatattcagt aaccatcagg acaaacatgt ttaccaatgt gaaatagctg 323640
tggtgatgt acagatgggg actgtactct gtaactatgg gcaatgcaat atcaaattaa 323700
ccagagcaaa taggagattc ttcataaaaac tccataccca ggaaacattc ttggctgtca 323760
aaatcaaattg tagcctttca cgtagtattt gtttaaccta acttcatttc ctctgaaaat 323820
gtccgatcag aagacagcca aactgtattt agaaataatc caatgtcaag caaaagttaa 323880
tggtgacaga atgttctgtt accaaaagtc ctaatcagac aatcaggtaa agggaaatggg 323940
agatcaccat aaaaccaaaa caaccaaaaat gctacttccc tgcttaccta ctgacacaca 324000
aaaccagtgt caggatagaa gcatttctgt tatttccctt tatgcatgat actattctgt 324060
tccttcacgt atggaaccca ttctagttac acggaaaacc ctgtcccagt ctccaccccc 324120
tactctgcag tcaagcactt tgatggattt cagtacagtg gagtccctgtg ggccttcagt 324180
ggagaccaag attagaaatc acataagacc ctaccttag aagcatagta tcaattttta 324240
aaatggccat agaacattag tgtcagagga aaaaattgct ttgggagttt gaaggaggca 324300
gagaccatct ggtttaaag atcaggaaaag atttcttgaa agaggtgaca tttgagcttg 324360
actttggagg acctggcaaa cctggtaatt tttatgacag acaaaaacgt gattatctc 324420
ttggaaatta gttctagtga agagaacaca ggggaggtaa agcttctttt gataggttca 324480
tgaaagatta aattcatatc cactgataca caagagcatt catcttattg tgctatatgt 324540

```

gccttcggat gtgttttcat gggcttttta ttttactggc tagggacaac tcaacaggag 324600
agggctggca agaacagcaa ttgtgaacta acagaaatca caatccatgt ataaaaaac 324660
tagcattggg ggaaattttt aaatgtcttt tcattttttc ccagacctgt ggcttccatt 324720
ggtggtaaat ccttagaaaa tagcttctag ttgtgctgtt ttagaaaaaa gtgaagcaca 324780
gaaaagtgtg tgaaagtggg agctagctga gttgggataa aggccagtgc ctcccaattc 324840
cccgtgccct gcctccactg ccatcttaga aatgtgggaa gtgaaggctc tgccccaagg 324900
gcacccccctc ttgctgcaat cctgccctgt gtggggcagc agcccactag tgcctcatag 324960
ggagaactat acaaatgtgt agtctgatcc aaggttttcc atgacacggg ggctcctggg 325020
caaagaacaa aagctcccca agcacttttc caaatgaggt tcctggcatg aggcattta 325080
atatgccaga caaaaaacag tgcagaatct agtaatcaat acatgttgtt tcttcccccc 325140
tcaaaaagcc caaggettgc ctaatcaaat aatgacttg cctaaattta atggcaatt 325200
taagaaaact tcgcattagg aacagtattt ttcttaatta caggagctag agtccaaatt 325260
tatcttttta aattagattt gtcagtgtc tcagaaagt attaaagtga tgggaatata 325320
gagcataata aattctcatt ctatttgtga ataattttcc tgagatttaa tagaatgaaa 325380
acagcctaata tttagtttga agatgacctt cctcagtgtc ttgaaactga actctttag 325440
tgagtggcct tttgaattca agcctttaac tttggatctt ggcacatggg tatcaaggag 325500
aaacaatttg agttggatac atcataatac tttttattag catagccttt gtcaatctag 325560
cctcctcaag gttctttagg acctggcttc tgcagttgaa aagaacagtg tcttcctccc 325620
aaggggcagc tgtctttttc attgaacttg ttgctagagg agcttctagt tttaaagcac 325680
atactcttta gcgtatgtg taatttcatt aaccaccagt aagttcttct tatgcatgtg 325740
gccaaaataa tgatatatcc cgcttggtgc caaggtgaga accatagata ggcttgttat 325800
tttacttttc tttcttacct gcaggctctc aaagatattt tttctcctta agtttgagca 325860
tatttcatgt aaataaaagg gatcccaaag agcatcttgt gcgaaccctt ggctcaagac 325920
aaccacaact aaaattcatc tagatcacct ggacttttat gttgaaagga tttttcccc 325980
agaataggac atttgtttcc catctattct ggcttacaat actgaagagt ccagtcctat 326040
atttatgaag gaagcagcct taaagtgtta ccatgaacac tttataaaca ggcattgtgg 326100
gcctttgaaa agaaaagctgc tgatgtctga gttttatggg agtcctagcc agctgtttaa 326160
gtgttcttct taacacttaa gtatattttg taacagaaga aaaatgaaaa ttagtatatc 326220
tgcgcttcat aattatcata ttaaagagtt gagtcgattt tagcaactaa actattgctc 326280
tccaaatttc cttaattcat taaataaagg ggttaaacta gaagacgatc tctgatattc 326340
tttcacctta aggcaacaaa tctttgtaga gtatttgtga attaaatcct ttatgaaaag 326400
gtgtcccttg taaatgattg gggcatgttg cctcttttcc ttcataattt tagtttctgc 326460
tattcataaa aaaaataagaa aaataactaac ttcccttaag agtaactact taatgtccaa 326520
aaaccctca ggttctgcaa ctatgatgca ctgatttatg atgtttattt atatacctct 326580
cagaaaattt gaaatgacca agagatttac aatgcaatg ttcagccaaa aatgttttta 326640
acattctaaa ggatacttat atttttattg ttgttgtttt gttattgttg ttgttgtttt 326700
tacagcctcc ctcccaggaa acttgattt attgcatgcc tacaggagcg ctaagcattg 326760
agagctttgt ctacattatt tagttcttga gtaaaaaggg aaatattttc tagaaagtag 326820
ggtttgtacc aaagccttct accatttagg tgaaaaaaa aacatagttt ctgataagtt 326880

gaattgattt caacttacia ttattggagt tttatatgtc aaatagaggc actgcttcag 326940
 tattagatgg acaaagatga ctaagatccc tgcccttaag gaactcacag tctggtgggt 327000
 aatggtagaa cacagatgct ttaaagcaaa ttatgatgtg gaaggcctaa agattgacac 327060
 atgcacaagg tatagaggga aaattgaaga atggcatcta aggtaggctt aaaatcaaat 327120
 gaacacttct tagaaaagat gacagggtga gtgagtctta aaggatgcca gtcttgtaac 327180
 ctcatgcctg gggagcattg ggatggagac tagtgatgaa gacttgagat aggatggaaa 327240
 ttacaggcaa aacctccaaa gtatagaaag gtgccctgag tctttctcca agtaactgtc 327300
 tctattttgt tattttcaga cctggtgctt tctttccctt taagtttggg catgtttcat 327360
 gtaataaaaa gggatcccaa agagcatctt gcccaaacc tggctcaag gcaaatcaac 327420
 ctagaattca tctagatcac ctggacttgc tatgttgaaa ggattctacc cccctgggat 327480
 aggacatttg tttcccatth attctggctt atgatactga agattcccca tccacattta 327540
 taagtggaag ccacatatat aaggcaggaa gcaagcctta aagtagtgct tcatatttat 327600
 agaactaagt tcatttcaat gataagatta tgatcattca atcatcgatt tttttttttt 327660
 cttgaattac tactatgtgc tgggccttat gaggtatgtg gactatctat gagagcttat 327720
 cttgctaagg gagataaatt aacatcaaac aataagcaga cagtaaaaca gacagcagac 327780
 agcaaaacaa aaattaaatt agtttggcct tagagtgatt aagtctatta ttcttaacag 327840
 atccagcaca gaagatatga atgtcttttg tttccgtgtt atacaagaaa aatatatctc 327900
 caaagtaaac atttccataa agctgcatta acctataca ggcactagaa taacaggatc 327960
 agcttgtgca ttttaagatt gtagcactgt gccgatgact ttgaagatgc gtttatctgt 328020
 gttaaataaa atgttatgct gccctaacag aatcggagtt gatgctgctt cctgtcctga 328080
 cccctgtggg tctgtgttcc ctgataattt tacacaacac tgaggcggga agaacgtaaa 328140
 ttccaggaat gcatttatgg ttaatctgtt gttgaggttt agtcagacag ccagtgtttt 328200
 ataaaccaag cctcccatga aattgggctg gaggaagagg gatctaatag agcagataat 328260
 taccacttgc tctccattaa ctgagccctt gtgcccggga cacttttcct tttggccagc 328320
 aaaattggag tggctttgtc atgtttacag ggagcctgcc tgttggctat tagagaggga 328380
 cagaaagaat ctgcatatag aaaccctgaa agaatacaca ctaggcaact aataaaaaatg 328440
 gtcgggaacc tgagcagcat agtgagaccc tttctctaaa acaattttta aaaacttagc 328500
 caggcatgga ggcacacact aggtcccagc tactccggag gctgaagtgg gaggatccct 328560
 tgaacctagg agtttgaggt tgcagtgagc tgtgatcgca ccactacact acagcttggg 328620
 caacagagtg agaccagac tcttaaaaaa aaaaaaaaaa aaaagtctgg aatatatggg 328680
 cactgaggag gtgtgagctt tctcagcgta tgcctattat agaacaaact cctgcttaca 328740
 tttatcagac catgttgcca aattaaatga aacagatgtg aggcagccag ctgagggcca 328800
 ggcccttaag aaaccctcag gatttgtttc cagtgttctt ctgactagtc cccgatccat 328860
 ataactcatca ttgtttgata aatgacattt tcatatgaca tccaccagca ggctatcatg 328920
 attctcgaca tgggtatcaa atctctgttg aaatctcaga actgttgctg ggtttctagg 328980
 tgactagagg catatccctt cacttctttt tgccttaatt tcccctacta caaaatgcaa 329040
 ataactgatag ctgtcttcag tccttaattg ttggggaaaa aaagatttta gaaacattct 329100
 tggccagatg cggtgactca tgcctgtaat cccaacactt tggaaggccg aggcagatgc 329160
 gtcacctgag gttaggagtt caagaccagc ctggccaaca tggcgaaaac ccgtctctac 329220

```

taaaaataca aaaattagcc tggcatggtg gcagatgcct atagtcccag ctactcagga 329280
gcctgaggca ggaaaattgc ttgaaactgg gaggcagagg ttgcagttag ccaagatcac 329340
gccactgtac tccagcctgg gcgacagagc aagactccat ctcaaaaaaa agaaagtaac 329400
atTTTTgttt cttagaaaag gagcataaca atttagcctt tgaaaccgag tagcttagtc 329460
aatcttaggc taaaatatcc aggcacagac agaggtgaga ggtggcaa at gaactatttg 329520
agatctta at tggaccagaa atagaaggca gattacagtt ttacctctca ttactataaa 329580
acaaaaataa cagaatggaa ttagatagca tttttttcag gttgaaacaa ggccactaaa 329640
acattagtag gcaaatagaa atttggaaaa ctctgggaag agtatccttg aagatttcac 329700
tgcatatact tgaaagcaaa gtaggagagt gggagattgc aagcttttca ggtggtcttt 329760
agaaattcta gtcatccttt ttttaa at aaataaatct ccatttta at acattaatgt 329820
ctaaagtata ccgaaaaaaa agtttttttt tgttttatct ctttattctt tgtaaaga at 329880
ttccaccatc aataggtata gtgaaatttt atctcttaga aaaggagcat aaaaaa attc 329940
caccattaa tgaaacagta ttacaacctg atcactcaca agccaaaaaa ggtccatata 330000
cagccaggga cagagggtta ggaaattaac ctcttttctc aatagctgtt ggcacgttca 330060
tgcttagtcg gtaaaccggg actcttgcca acatcaaa at cagtttaggt attgcacctt 330120
ccctgcctca ggtgtcccca catgatgcca tctgcttctc catagacatg gtcggactct 330180
gtgttcttgg cagagttagg gcgaatacta tccatttcta ttttgagcac cgttcgttcc 330240
caa atgccac ctgagtaaca tacgaaattc tctctctctt tctctctctc attcatacac 330300
atacacacaa tccatggagc ccaggga at taagaaaaaa aaaaagacat gtcattttta 330360
atgaatattg ctgagctgtt gatttgtgat attgtgaaac atgttttgaa aggtaccatt 330420
tgcagccttt agtagactac aggttat tttt aggtcagcag gttagagcat tttgaggagt 330480
taatat taat gtgttgctgt gagcctgtag ttggcctagg gattataaga taacaaggta 330540
gtaaatatag aaacgttagc attatctctt attttccatc ataaatttaa gttataggcc 330600
agttagagca ttcttg gatt ttttttcaaa atcaaactgt tttaaagaaa cattctaaag 330660
ctaaattctt catgtatatt acatttcccc ctatagtgat ttaaataaaa ggaacattta 330720
aagatttaac atgatggaac ttcttccttc agttgcactt gaggcaaaa aatcaacttt 330780
cacaatgtta aagcctaaaa tactgaaatt aaaagtatag tcttcccaa gaatttctgg 330840
aaaatgcca gaatctgttg ttgctttc tagtgcatat tcaataagaa gtcataga at 330900
ttacttcaat ctcataaaa ag ttctgcca gtgaacaaga cagctgttgt ctggcagttg 330960
agccgtagag agttatgtga cttgttcaag ttacagtga aggtaataat ctctgcattc 331020
tggttaagg ctgtgtgtat ctttttgctc ttgaaagctt gctctgtccc gccatggagt 331080
actctgaccg gcaagcagaa taaaataagc agtcattggg tattcacaaa cacatagaac 331140
tttgtttttc atttttaaat atctttattt tttagagcag ttttaggttc acagcaaa at 331200
taagctgaag gtacaaagat accccttacc ccacctacc caacacatgc acagcctttt 331260
ctattatcag catcgtccac cacagtggga catttggttac agctgatgaa cagacattgg 331320
cacatcatta ttacccaa at tccataattt acgttagggt ttactcttgg tgttgttcac 331380
tgtatggatt tggacaa at tatgatgacg tgtttccacc attatagtat cacacagagt 331440
tgtttcctca gtatctatgg gtgattgggt tcagggaac accctcccc cttgccacc 331500
cccacaa atc catggaagct ccagtccctt atataaa atg gcatagtatt tgcatataac 331560

```

ctacgcacat cctcctgtat actttaaatc atctctagtt tacttatgat acctaataata 331620
atgccattgc tacgtaaata gttgttatgc tttagggaat aataagaaca aaaaaagcag 331680
aacatgttca gtatagatgc aagcatcctt tttttccccc attattttct atctgcagtt 331740
ggttgatcca cagatatgga acctagggat atggagggct gactgtgcag aatgttttctt 331800
taatcattgg taaatcacca acattaaaac tcatgcgtgc ttattgccat ccgagtgtct 331860
tgtttcaaga agatattaca gtcaaagctc aaacaagtta tgggcagagc catcaagaat 331920
tcatttagac tgtaaaacttt taatgacca cccaaccttc taaccagttt atttcccctt 331980
tccaagtaaa tattcttagt gtaggagagc atttctcccc atctttcttc tctctaagta 332040
aaaatgcccc acgctatggg cagtgcctag attgggcgca ttgccccatc ttggtgtttg 332100
cagcaacagt tcttagcctg gactcaccag gacagggtga tcttggtcac atgccagct 332160
cttctctcca actcaagaaa acctcatgga gtgaaaatga gagggatgcc attctgagga 332220
ctccttcagc ttttccaacc ttgtaaaaca gactcatgag cattggtgct ttgttaataa 332280
tactcgtgtt agaaacaata atatttacat agtattaaaa acagtagtat ttatggaaca 332340
tttaataagt gctaggcatt gtctagtgtt ttccttcac atccctttta attctctcaa 332400
taatgctaca aggtagttac tcttatcgta cccactttac agaggaggaa acaacttacc 332460
tggttataga acgcaccatt accagactgt tgagcctgaa ctcagacca gccagctta 332520
ctgcagagct tataatcatca cccagtgtgt tgtatccaaa ctccctgcac agtggagccc 332580
cacagggtgt actgtgcttg tcctcttctt ggtcctcaca ggagcctggg tcatggagct 332640
gatgcctctg aagcttcatg ggacacaggc gcaggggatg gaggtagagt agaagacccc 332700
tcagagatat tgccagcgtg ggctggggct cctgtggtac cataagggtt gcctgtagct 332760
acatatgcct cagcctgaac tcatactaaa atgactcagt gactttattg agcatatggt 332820
atgttccagg aaccgctata tatacattat tccttggtgc ttttgtcagc aagcgtgctc 332880
atgtcatgaa aataacaaag tgagcatttt atttgatttc cttggccacc aaattagatg 332940
agtgatttat gttggggaga actaaatgtc tggcataggc tgtaacagaa catcacagat 333000
ttagatggac atgttcctgc tgggtcaaaa gctgtgaatg accccagtag cctggggaga 333060
ggcctatata gcaggaactg ggagccagag gtccctcagga tacaattcag atccccaaaa 333120
ggtgacctgt ggcttctctg gtgcagagtt tggggccatt ggataatgcc atatgccagg 333180
ctcttactgt gtcctaggct cagtgtgag gttttacca cataaatatt gcattgactc 333240
ttaaacaat ctacaggta gatgctgtgc ccattttaca aatgggagga actgacactt 333300
agcaggggtg aatgatgtgg cagtaaagcg cagagctggt tagagcacag gtcttctctg 333360
gtccaagtcc ctgtgctcca cttctccac cgacagtgtc agagttacag aggggagtga 333420
aggatggtcc agtccttctc agcagcctag agcaggggag cagcccaggg ttaagcaggt 333480
gtgactcctc gtggagtgc tccctatttc ctgagcccca ctgcgtgtta gaaaccaagg 333540
tattgagggc ttagtgagag tttttacca tttctgctg ctttaggtcc tccatttcc 333600
agttgttttc ttcctactcc agggatctcc tcccttcccc agggttgaag caatgcacac 333660
tgaagtatta atagtagtga tcagcacctt caagacagca ggaccttct gttgccttct 333720
ggctgtggtg tgatgtccta gggcctgtgg tgcataagca ggtggaatct aagcactgac 333780
cctggtcatt ctacatataa gaggaagagg actaggaaag ctcgacaaat gctgttctcc 333840
tcttcatggc aaagccttg tctttggaat ccttatctgc atttaaaatg tgtagtcttc 333900

aatcattgtg tcttgggatg cttggtatat ttagttccat cacaaaaggc ctctggctta 333960
cttattaatg aattctgaaa ttaagttgtc ttttaaaaaa gatataggag caagaaaaaa 334020
attaacttag tctttgtaaa acaaatatit gatgaatatt tgtaatctct ccctgagtgg 334080
ttctagccac aggggtgtta acctacagag cttcctagaa agagcaccat acaaatggcc 334140
ataaatcact ggccccgaag aaggaagatt ctctcttatt ttgcctcctg gaatgatggg 334200
aaataattat agaactggga tgaaagagga attatattat tcttgtgttg gcatatgtgc 334260
tttttattat gttttggtag gtctttattg tctgatattg gaggagcaag gggaaccaga 334320
cattactgtc agcatgtaca tttcatgcta gggtttacca gaaagaaact tagaatcaac 334380
agttatctga ggctgtctgt gtcagagctt ggggttttta tgtgagccgt caaattcaga 334440
cctcaccagt gtgttccaag gaagcgtctc tgctgtact tctactggcag gacccgcctg 334500
agggagagta aacagcctca cagatgtagt cccacagctc atgtctgagg ccaacatggc 334560
agcctgtctc gcagggttgc ctcttaccat gcggtgact ttccacctag aaaaaatct 334620
gtgttagcag tgatgtccgt ggtctctcag aacacacagg gagtcctttc taaaaattct 334680
gtcttcacag cattaagatg attataacta acacatattg agttattata tatcaggatt 334740
agcctaagca ctttgatttt atttatttac ttattttatt tattattttg agacagagtc 334800
tcgtctttgc ccaggccgga gtacagtggc agtcttggct cactgcaacc tctgcctacc 334860
ggattcaagc gattctcctg cctcagctc ctgagtagct gggactacag gcacgcatca 334920
ccacgcctgg ctaatttttg tgtttttagt agagatgggg tttcaccatg ctggccaggc 334980
tggtctcgaa atcctgacct tgtgatccgc ccgcctcggc ctcccaaat gctagaatta 335040
caggcctgag ccactgtgcc cggccagcag tttcttttta ttaaccatt taaacctcac 335100
aatatctctg aggttgggtc catcatttca ctgattgtac agatgagaaa actgaggcac 335160
gaagaggcta aactacttgc tgggtgttca tagtctacag agccaattcc agtctcagaa 335220
attgcattta ctgagagcct accaagtacc cagatcttta gggggtatag aagaagtta 335280
actagaatct attttcttat gtatttaatg aatttttttg ttgtagagag taaaatgaca 335340
tgaaattgga aatgactgtg ataaatgatt ttcatagtat aaaaattggg accaagtctt 335400
tctcatccct ttcatgtcat ggtttcattc ttgcagttct ctttctattc ttacctcttt 335460
tatttcctta agaagaggaa agggtaggga aaaccttta agtgaggaag gtgtcagctt 335520
tttaataatg tgccaacttg ctacctctgt ctttaatgtc tccctgtggc tcttggtcac 335580
acttcagagt gagatgactg gagaaagtct tcagaaggca ttagctatga tcatcttgca 335640
tcattgtcga gcccttctga ccttgggcct gtgtgttcat cttagggcac agggcccaaa 335700
aggacagggt acatcagtgt ttctagatgg cccaattgac acttgatgct ttctgcctt 335760
gggctgtttc acccaaagct cttaggattc cttatgtctc ccttccac cttatacttg 335820
tttcacccag gaaagagcct ctgtcatgcc catcgtctcc ttccctcctg aaggctcagt 335880
atctggttaa ttacatgaca taggaattac ttaccatcta ttttggtat ttccatacac 335940
attctgagaa caaaataaaa gagctcttct ccatgcccc ctcataattt ctcccatgc 336000
ccttttttgg ggaaggcagg ccagtcaaag cagtgatggc tttgatcaga gcaacgagca 336060
gatcatgatt tattattgcc ggagtagaca gtgggctaca ttagaggact gcttagacgc 336120
atgcttattc tagaaaaggc tgaaggaaga aagaaccacc ctttccctc ctcttctcag 336180
ctcccttctg ctgggagcac ctggctgcca gttcccaagt tcctctccat ggggaattgc 336240


```

agctccaagg tggcctcctg gagctgccta actccgcctt cactgaaaat aaggtgattg 336300
aactgtaaag ctgaaatcct ctgcagtcac gtctcctcca gagtcttcaa ggtcactccc 336360
actttttttc tagacacaaa tggggtcatt tttgtaattc taattaacac tgtctccaga 336420
cataaataaa attttaaatt tctcattgct atcagctgtt tccactatgt ttttcataaa 336480
ttggaatgca attttaaaca gttaataaaa ttctccagta caagagcaaa acaagaagtt 336540
aaaggaacac aatagtctag aaacagaaga ttttgatgta tttttaaatt gatatgtatg 336600
ttatctgttc tatttagatt acaaacttag agtaatgaat ttgcttcagt aaatttcttt 336660
gtgactgtga gtgctattgc ttatattata attgggtctg ggtccaaata tatattgaac 336720
ttatttttcca aaagaaatac tctccttaga ttgtggcatg gcaggaaagc atactgttcc 336780
tagtagtcct ctccaaactc ctttaaaaaac tgagctttat ggcaaatttg taatgaagat 336840
gtaacacttt cactacttaa accatgactt caatttgtga tataattaag ggcaattact 336900
cctgttagag attgtagact aggttaggct gagttaataa atagctgttt ggctctggca 336960
ttagcaagga tgtcttcatt agggtagtaa tgtgtcaaga gtgctaaata ggttgccatg 337020
gtatttgtgg gtttcagcct ggactctggc tttccctgaa attaaaaatg ttcagccttt 337080
aataaaaggc acttccttac acagcaaagc agacagaaca ctaaataagg gaaatgacca 337140
gggctcagga acttgattgc agaggctgat gaatacacac gtggatattt taaagtaagc 337200
attgactctg acaggctttg ttaaaaaaaaa aaaaaaaaga aagaaaagaa aagaaaaaga 337260
aaagaaaatg ttttagatct gtatctcttc atttttccat ccattcatcc atccagaggg 337320
actgtgtccc agcacatgga aaagctgctg ccctgcttca gaaaacctg cccacactca 337380
ggaccagcta acgcacaggg attaggtctt attcatcttt caaatccgca gagcctagca 337440
cacagcagat gttcaagaaa tgtttgctaa atgaatacat aaattctgct tacccttagg 337500
ccaaattggc ccaagagtca gacattttgg attatgattt tgttagtggc caacttccag 337560
tatctgaaga cagtggattg tcctcagatg ctgtgacgaa gccctggaaa tgtagaatcc 337620
attggcctgt ctgtctagga acaaggcgtt gtggttggat taacttatgt agtggttctc 337680
agcgtgtcca ctggaccagc aggattcaaa tactgaatct actaaagatc ctggatgact 337740
tatgggaagt tatgttattt ccaaaatttt acagttaaac tatatttttt aaaaagatga 337800
cagcactactg tagttctcaa atatgttttt atttgtaaaa cgttgttttc aagaccctgg 337860
gggaaaacac ctaaaacata aggccttggt tgtttatctg tgtgcctggt atgcttaacg 337920
tttcatggaa atcttaatta gcagagaagt gtaaaatagt cctggatccg atgggggaag 337980
gagccaaaag ctgccagtc aaactgtcca gccacctgt gctgtttgtc tgtgattttg 338040
atgaacctga tggatgattc tgaacacagc attttttttt cttttttacat gtgttctcaa 338100
cgatccataa tcctaaatat ctcttagca gttgaggaat ggggctttga aagctcttgg 338160
taagatcgat aaaagttaaa attaaaagca tttctggcca aaccgcagtt atttgcaaaa 338220
tttggtctaaa gaggacctta tttctcaggt gtctgttaa cattaacttc attgcctagt 338280
acatagtaga agattagttt aactaccag attatagata ttagcattat gaaaaatttg 338340
aaaattctgt tttttattag taaataaaaa catgagcaac tgatgtttct agaacttaga 338400
tcctaattaa aggagtctca ttccagtctt tatatgtgct taagtttatg tttttctttt 338460
atcaaaacat acatttagac attaaagctt accctaagtg agcaactggc tgattattaa 338520
ttcagaatgt atggaaagcg tttaccaggt tggcctaate tgctccatta gtttgcata 338580

```

```

taattaatTT cttgtcatta gtagacgttc agatggctaa ttgattctgc tccttcttct 338640
aggTTtatTT caatctacag aggaccagc cacacctaca aggtccagag actgacggaa 338700
ttcacatgct actccttcag aatccaggca gcaagcgagg ctggagaagg gcccttctca 338760
gaaacctata ccttcagcac aacccaaagt gtccccccca ccatcaaagg tgtgtagact 338820
atgtattctt tctcgtcttc ttgtgagagt aaggaactgt tgggacttat agaaagaagc 338880
tcttttctga tgtaaatat aatgtcagca agatagaatc aaaagaacat tctaaagaag 338940
attgagcaat gatgggttgt ctgggggaaa tgagagacct tgaaaggaaa gggcctactg 339000
atgacttttc tctgtaggta tgcattgTTa tcaaaaataa tggtttagaa taagggttaa 339060
attcctgggtg ctgcaaccct taagacagtt taccaaggaa ggcgtcagac tccccTTtc 339120
tagactttca gagaagcaga ggttggcatt catctttcag tgactttggt gcctagagac 339180
tgacttaggc aacttcagca gcctttctct tttggcgac agctcttggt gtggagcact 339240
gcctttggaa agctgtagca gcgttctgct ctaatctctt ggggtactta tcttgaagtt 339300
tcttcaagga tgactacttt cctactctgg cccctaatg ggatcaggta ctgcagaagt 339360
tgtgagagcc ccatgtatcc agatcttccc catatctctc gaagctagtg aacaaaagac 339420
actctgcctg gacccttctt ccaccgggtc tgctgagccc tcagcctgtt atatagccac 339480
agagctatgc ctgactgcgg ctgacttgca aggcaggaaa tagcaataga aaccatagca 339540
tgctcagcct gtccaccag ccactcatgg actcctgagg ccctgcctca tctcctgcaa 339600
atactgtggt tcttgtggag gtccctgcag cttgtctttt aggggacaga cagcacaagt 339660
ggcttatcga gctattgctc aaaataacct taaggctgac agatagcagg gtaagtacaa 339720
cctgcacaag agatccttgc atatgtgttt gactctctac tcccacatga aggaggtgtg 339780
tcagctacaa ccagggcaca aagtcaatta taggaacttt ccaggacctg ggtcaggatt 339840
tggtttggat tctacgaacc tcatagctcc tttcaggatt agtttagggt aaataccttc 339900
ctcctgcttc cctgccctgc agactctttg gcagaccctt ctttatgtga ctaagacatg 339960
agtatgaatg tgcatacaca tgcacggcct tgtcaggTca ctttggcagt aaatgccctg 340020
gccctttggt gcagctttgc ctttcagTTa taacacaaaa gatgtctgag cacactgtgg 340080
ctgctttggt ttattagTac caaggaaggg tggccacatt gatcagttat ccactttcag 340140
gggtctttct agaaagtatg aaggagtact atctttgcct ctcaaagtga ttcttggtgg 340200
ggattcattt tacaaaaaat acaatggcac attgatagtg cttgcatctc ccagcctttc 340260
tacttcagaa ggtcagtttt ccactctga tgcattgTca ggtagtcttc ctctactctt 340320
tagactcagg aaattattgt catagctgga ggacagTTta atctgatagg cttccttatt 340380
tagttttttc ataaaaatgct tggaattttg gcctagtatt tccagcgtag gtcctttttc 340440
ttcttcttct ttttttttaa ggaaagcatt atttttctga aacaataaca cacagaattg 340500
caagcagaaa caactgtctc taaagaatta gttgcatgta attagggtt aaagtataag 340560
ggggttcaga caggagatat acattctagt tacaaaatag gaaaatgtcc tattgaatca 340620
agctgtagag atagaagtta tgaaaatatt ttttaaactt agaatatTTt aagtgcctta 340680
ctgcagacta atataattta gctttaaatg agaatgagga gttcaggagg tgaaaaataa 340740
aatatatata aatataattt aatttttaaa ggctttcaat gctgcccatt cccagact 340800
gttctcacat gtcacctgct cctcaaactt tccttagacc ctcaccaggt tatgtctttt 340860
tcctcctctg gaaattccca acgttttgtt tgtacctctc atttttattc cctgatgttt 340920

```

```

ctttttgtat gcgtctcata ccttgctctc cccttccttc aactaactct taagtttctt 340980
gaaaacaggg tttaccttgc ctgtttttgc atcttccaga atacctagga cagggcctaa 341040
gccatagagg atactcaatt gccataggag aaaaaaagat gtgatccaca tcaagctgtt 341100
attaatggga taatgggcaa aggatttttc atcaatggct ttttagtcat ggagtaactt 341160
ctctgtgcct aaagggcacc ctgctggttt tatgagaggc tgggcaaadc agctcctctc 341220
tcagggcaaa cacaggcaca atcttgctct ctctgggttc tcactaatag tgctaaagtg 341280
ttgactatta acatgatact ttgaattttg agcttggatg tgtggatttg tatttcagca 341340
cctcgagtaa cacagttaga aggaaattca tgtgaaattt tatgggagac ggtaccatca 341400
atgaaagggtg accctgttaa ctacattctg caggtatttg ttggaagaga atctgagtac 341460
aaacaggtaa gaaccagtgt gcatggcaca tgtgcaactg agtatggctg gctccatgcc 341520
tctgcttatt gctatgaatg actcagtga ctatgttttt cttaaaatca gtgatagaaa 341580
ctgcctaact tgtacttatt gtataattct tcagagtggg tgaaacctag tttacatttc 341640
attttatata tgggtgtatt catcttcaat tttcagttct caagcatatg tttgtcttaa 341700
agagttgtaa atcgtttatt tgtatttgac attgatgggt aggtttgcaa gcatcaaagt 341760
cagtatgtaa ttgaaaacta aagtgcctgt gattttacta tagagggaag tagtctcttt 341820
ttttgttggt gttagtattg atcttttttt tttttcatta tactttaagt tctgggatac 341880
atgtgtagaa tatgcagggt tgttacatag gtatacatgt gccatggtag tttgctgcgc 341940
ccatcaacct gtcactaca ttaggtattt ctctaatagc tatccctccc cttgcccccc 342000
acccctgac agggcccagt gtgtgatgtt cccctccctg tgcccatatg ttctcattgt 342060
tcaactccca cttatgagtg agaacctgcg gtgtttgggt ttctgttcct gtgtcagttt 342120
gccaagaatg atggtttcca cttcatccat gtccctacaa aggacatgaa ctggttcttt 342180
ttttatggct gcacagtatt ccatggtgta tatgtgccac attttcttta tccagtctaa 342240
cattgatggg catttgggtt ggttccaagt ctttgctatt gtgaatagtg ctgcaataaa 342300
catacatgtg catgtgtctt tatagtagaa ggatttataa tcctttgggt atataccag 342360
taatgggatt gctgggtcaa atggtatttc tggttctaga tccttgagga attgccacac 342420
tgtcttccac aatggttgaa ctaatttaca ctcccacaa cgggtgtaaaa gtgttcctat 342480
ttccccacat cctctccagc atctgttggt tcctgacttt ttaaattgatt gccattctaa 342540
ctggcgtgaa atggtatctc atagtagttt tgatttgcat ttctctaata acaagtgatg 342600
acgagctttt tttcatatgt ttgttgcca cataaatatc ttcttttgag aagtgtctgt 342660
tcatatcctt caccactttt ttgatgggtt ggttttttct ttgtaaattt gtgtaaggct 342720
cttgtaggtg ctagatatta ggctttgtc agatggatag attgcaaaat ttttctccca 342780
ttctgaaggt tgctgttca ctctgatgat agtttctttg ctgtgcagaa gctctttagt 342840
ttaattagat cccatttgc aattttggct tttgttgcca ttgcttttgg tgttttagtc 342900
atgaagtctt taccatgcc tatgttccga atggtattgc ctaggttttc ttctacggtt 342960
tttatgattt taggtcttac atttaaactt ttaatccatc ttgagttaat ttttgataa 343020
ggggtaagga aggggtccac tttcagtttt ctgtatatag ctagccagtt tttccaacac 343080
catttgtaa atagggaatc ctttcccat ttcttgtttt tgtcaggttt gtcaaagatc 343140
agatggttgt agatgtgtgg tggattttct gagccctctg ttatgttcca ttggtctata 343200
tatctgtttt ggtaccagta ctatgctgtt ttggttactg tagccttgta atatagtttg 343260

```

```

aagtcaggta gcatgatgcc tccagctttg ttctttttgc ttaggattgt cttggctata 343320
cacactcttt ttggttcca tatgaaactt aaagtagggt ttttctgatt ctgtgaagaa 343380
agtcagtggg aacttgatgg gaatagcatt gaatctataa attactttgg gcagtatggc 343440
cattttcacg atattgattc ttcctatcca cgagcatgga atgtttttcc atttgtttgt 343500
gtcctctctt attttcttga gcagtgggtt gtagttctcc ctgaagaggt ccttcacatc 343560
ccttgtaagt tgtattccta ggtattttat tctctttgta gcaattgtga atgggagttt 343620
gctcatgatt tggctgtttg tctattattg gtgtatagga atgcttgtga tttttgcaca 343680
ttgatttggt atcctgagat tttgctgaag ttgcttatca acttaaggag tttttggact 343740
gagatgatgg ggttttctaa acgtacaatc atgtcatcga ggagaagtag tcttaaccta 343800
actactgaag cctacattct gtctaccttt tttgtagaac taatggaagg ttaagggaga 343860
tgatgcatag gccctggagg cctgtgattc agaagctcta agtcatgcat gtcacctttt 343920
aatgtcaaag gaatcacccg ggaatctgtt aaaatgcaga ttctgacctg gtaggtcttg 343980
gggtggagatt caccctccca ggtgacactg acattgctgg tccatggacc ataatttgag 344040
tagcaaggct ctgtaaatca cataataaac ccacataaga gagaatgcat ttggaatata 344100
gccagataag aaattagttt tatcatgttt catagccctt gttgattctt aattcttcca 344160
aagaagaatc agatcaatga ctctgaagga tttagatact ctataggctt tcataatagt 344220
ccctagaact tgtttttgtc aaatcaggat ataatattat gtattccatt aggaaagctg 344280
aggtgcattc ttcgtcagca cttttaatag gagcgttcat ttatatcaaa cataaagatg 344340
aaaataaatg ccacctgttc tctgaaacag tagcataatt tataaaaaaa actttgttca 344400
gttccaaata cacaagtaga aaatcatttg attcagagtt tctgttaaatt ttctcattgg 344460
tgtttgctat atgataataa agaatatggg caaataaaat gtttttaaaa aaaggtaatt 344520
ttggacattt tgctgtactt tgtaatatg atgtatcaga taaaagattt aattgtttta 344580
aacaaaaaac tttatcctaa atatgacatc taccagtgtc gattaacatc agcggatgat 344640
gtcaccaaag tttccatcat tcctcttaaa taagaacaaa gacactatgg ttccttttat 344700
ttttgaatct cattttatac gatataattc atttcagagt aaataactta catgcgtaat 344760
tgtttcattt taccagaaag atatgattgg tttcgggtct tagctcaaat agagagcaga 344820
gaattttattc tgttccatag caatgtgaaa atgggttaaaa tatgagggtg taagaaattt 344880
tacaacatat catttgacgc ttaataataa ttcatctccc agcagtacat tgatcacaca 344940
tttgttattg tattgtaaaa atcttttatt ttacgtgccg tgcttttcca cctgttcttg 345000
gaaaaatgtt ctgcttccca aagcacagtg actgctgttt cctgttgaaa aaagcagcat 345060
tatttgcttg atacctatac acatcaggca ttgccaaact atagggtgaat ctattcagta 345120
atttagattt tattggcaga tgatctcttt tgaatgttgt ctgtttaatg ttatatattt 345180
agacccatgg ccatataaat gctaataatac taatgcataa tcatatgtat gccacagact 345240
atttttctta ttataaacag ttataaacia agtgttcctt gttgtaacaa ggtgaaaaca 345300
cacagtactg cacggcaggc tcagcagatg aggcttagca ttctccacat gccattttgc 345360
ttcctgcatt taccaagaaa tgattaagga gagtagtcgt acatgaaaag ccacagttga 345420
gtcagggaca atttgactg gtttcttttt ttttttctg gcttctcgct attcagcaaa 345480
cattaactta aacatgatgt tttagtactt cattgttctg gacatgagct agggaaatgaa 345540
acatatattt gtgtgcagaa caatggttaa aataattata gttcaaggat aacaggcaac 345600

```

aggctttgaa ttcatagagg caaagcaaaa gaaaatgaga ggtaattact gctgtacatc 345660
caccacagcg gagctacagg ctactgtgtg atacctcaat tatagcacta atcagacagg 345720
accactaat acgtgggctt gtgttattca tttttatfff tccagtactg gcatatagtt 345780
tgacactcag taaatgtttc ctgcatgcat gaaagacgca gcttcaaagc accagggtta 345840
tttataacctg cagtgggtgac aagagtaaac ttcagcatag aaagaaaaaa atcaccccta 345900
ataggataat atcctttttcc cccaagacct tttttctfff tttttttfff ggacagagtc 345960
tcactctgtc gcccaggctg gagcacagtg gcgtgatctc ggctcactgc aaggtctgcc 346020
tcccgggttc acgccattct cctgcctcag cctcccgagt agctgggact acaggcacc 346080
gccaccacac ctggctaatt tttgtatfff ttaatagaga cggggtttca ctgtcttagc 346140
caggatggtc tcgatctcct gacctgggtga tccaccacc tcagcctccc aaagtgtctg 346200
gattacaggc gtgagccacc atgcccggcc ctcccccaa gctcattfff ataggcgaca 346260
catgacaagt gccatggcct tttctgatgt tttgtttgaa gcatcaactc taactttgcc 346320
ttggttctag gtgattcgct ttctgttttt caggtgtcac aatgtggggc aagcagctga 346380
ttttaattat taaacaatct attaaactga agtattaaat tattactcac aattttactc 346440
ttcattagat tgcatgcaca tttggtttgc cttttgccat ttaataaata ttccaagcac 346500
agcttttttt ccaggaagct taaaacttct tttcaaata gcttaactgt aaagtattct 346560
ttaaaagaat gaaaattgtg tctatatgca tgtgacttct tttttgtac aagatatagc 346620
atagacagtt tcatgcatag taagaagtaa agcaaaacaa ttcattttcc tattcaggca 346680
gcaataactt ttctaagaag tatttaatat aagcattgaa gacaaggaaa ggatcaacaa 346740
attgtgagaa attattacct attggcagtc aaaatttatg aaaaattact gaaattcttg 346800
gtgctcagat ttgttgcgta aagaaaacct ctgggctggg cgcggtggct tacgcctgta 346860
atcccagccc tttgggaggc caagatgggc ggatcacgag gtcaggagat cgagaccatc 346920
ctggctaaca cagtgaacc ctgtctctac taaaaataca aaaaattagc caggcatgtt 346980
ggcaggcacc ttagtccga gctacttggg aggctgaggc aggagaatgg catgaacctg 347040
gaagcagagc ttgcagttag ccgagatcgt gccactgcac tccagcctag gggacagagc 347100
gagactctgt ctcaaaaaaa gaaaaaaaaa agaaaaaaaa aaaaaaaacc tctgaagtgt 347160
ctagagggtct gtaaagctac acatttaatt tcatgggtatt tctgtatcaa tatattttta 347220
tcatgtatca tttttagaat atagtatcaa ggcatgcatt gattctacat ggtatcacia 347280
agagtaccac aaggaaagat cttctcttga ccaactatt tttaaagtctt ggagcctcct 347340
tttttttgag atggagtctc gctctgtcgc ccaggctgga gtacagtagc atgatctcag 347400
ctcactgcaa cctctgcctc ccgggttcaa gtgatectct tgtctcagct tccaagtag 347460
atgggattaa aggcgcctgc caccatgcca ggctaatttt tgtattttta gtagagacgg 347520
gatttcacca tgttgtccag gctggtcttg aactgctgac ctcaagtgat ccacctgctt 347580
cggcctccca aaatgctgga ttacaggcat gagccaccac acccagcggc taattttatt 347640
ttgtattttt agtggagata ggttttcacc atgttgcca ggctggtctc caactcctaa 347700
cctccagtga tccaccgcc tcacctccc aaagtgcagg gattataggc gtgagccacc 347760
atgcctgtcc ccttcatcat atttttttaa tgactttcaa ctcatctccc taatacagaa 347820
attaaacaat gaggctatga ctgtctcata ggacagtttt ttatttctgc atgaataaag 347880
gggtcaaattt agaacaaaat aaaaatagat caagatagac ctctttaaaa accatcgttt 347940

```

attttactga ttcttagggc ttttttagtt ttataggttt atttaagtat ctgaaggtca 348000
tgacccctta tatcagaaaa attcccatac atgtacccat acctctactt aaaattcatg 348060
taaaatgaac tgatagtcac tttcatggag gccaggtaga ggactcctgg tttattgaga 348120
aactgtcggg tgttttacat tgtgagggtc tcctggcata gtcagtactc taagagttta 348180
taggccccatt ggatgaaaac ccccaggaag cagttcagta acggtaccct tgcctctcat 348240
ctttggctca aggacaaaagt tatgtgcca acattatgcc ctcaatagag gaggcctgca 348300
ggttagcaca tttccccttg agcctggtag gcatagcagg ggagacacgg cgacaagtct 348360
ccctcccata gtcattgtaat tctggaggaa ttaattcacc tagttgagtc ttggctttct 348420
cattgtaacc ctaactcagg tggttactgt gagcattaga tcattcaatc atgagaagga 348480
gggtgtacaga tgataacatg gtgcaattat atctcccctt cagttcttgg gaggggtgac 348540
attagtaaag agatgaaggt aagcctccag cagccagta tgcactgttc tcgccaccct 348600
tccccaaaag ctccctgtta tttacaggat ttcaactatg cagcatgtta ttttgaatta 348660
agggttatgg attcttgcct tcagttgtct gggtattact ttaaatectc tcatttgga 348720
taaacaatgct aagattactt taaaatatat cattcatcaa atcaagaaca gaaatagtct 348780
ttgtaaaaaa aataatgttt ctatacttat tacaatatta tgattgggta cttcaataaa 348840
aaaaatctca aatggagcca tgccgtttaa attggattga gtcaagagga aaagcccata 348900
agggtgcctt tgtcaaaaatg aatgaaaaca aaggacaca aagcgtggcc tgctgccctg 348960
atgcgcagag ctgcacagtc ctgggggagg cacagctgta tggcaggcct ggcgacatgg 349020
tgatttttgt gacatcatta gttcctaagt actgtgggtt gtaagtgtcc gtggccatgt 349080
ctggacacca agccagcatc atggggctcc cttccgttg atttctgcaa gtctgtatt 349140
tgtaggcccc aagggtccct ggcaccaagc atttgtcctg gagtgttaca catgatttct 349200
gcaaggcggg gcagggaag tacagtcaag tagcaatata atatatcatg ttgacatttc 349260
ttagatgcct actgcatgcc aagccccgtc ctaggaggtt gctacatgtt atcccactta 349320
atcagtaatc ccataatcac atgagactat tattttcatg tagggggcgg gggatgtttc 349380
tcttccgcag aaggatgtta cttcaaggg acaggtatta caaagatgtt gaattaattt 349440
tcaattattt gggcttctta atcgatatct ggcttttgga tctcatattt tagttttaaa 349500
accccatcag tttatagtta ataacataag ttacaagtgt taataactca aaaattttatt 349560
tcatttagtt gtataaaaata tgattggctt attccacatg caaccattta gttaaaaaaa 349620
ttgagacatt acatttcatt ttaaagctca tctttgttac tttctttgaa cctgaaaatc 349680
cttaatctgt tactctaaaa aaatcttcac tgagatatga ctggcctcac cacactggtc 349740
tatgtgaatt tgctgacttt taaggacatt atagtcagag ccaaggtaga caagctatga 349800
agtatgtgtg ctctcacatt tacatatatta tacaactaga agagtatttg caaagtttta 349860
atatttggat cactttaaaa actattagaa cgtattagaa aaactattag aacatattag 349920
aaaatgatta aaacatatta gaaaaactgt tcacgtgtgg gggggtggct cacgcctgta 349980
gtaatcccag cactttggga gcctgaggcg ggtggatcac aaggtcaaga gattgagacc 350040
atcctggcta acacagtga accctgtctc tactaaaaat aaaaaaaaaa tagctgggcg 350100
tagtggcggg cgctgttgt cccagctact cgggaggctg aggcaggaga atggcctgaa 350160
cctgggaggc ggagcttgca gtgagccaag atcaagccac tgcactccag cctgggcgag 350220
agcgagactc ggtctcaaaa aaaagaaaaa ctattcacgt gcataaaata tactagaaac 350280

```

```

tacatgtttt ctatcaatag actccatttt ttgctgcacc tataccaaac tgtctcttgc 350340
ccctgtggtc tgtgtgtgca tcttaatgct tactgttcac atttacttgt tagtttctct 350400
ttataaacac tgtgggtatca gaatatctac tctttgagta tttgagggtt ctaattagag 350460
aacattcgct gagcatctac tttgttcaag ccattgtgct ggttgctgtg gagatatgga 350520
aataatagaa cactgtctca ctcaatatat ttatcttaaa tgtaaaaaag ataatgttaa 350580
cattgtgttg gcaaggcttg tgaaagaggg aagctgttcc aattaaaata acaagaatag 350640
ctaaaagaaa aacatttaca aattaaaaac taacttttga ttagactttc gttaagaaag 350700
ttcccttcag ttaactattt atattatttt acaatgcttt ttgcctaata gtacaagaaa 350760
aataggattc ctttatTTTT aaaatacatt ttcagatata ttccagtcta caaagttaaa 350820
gttgggaagt tttgttaaaa ttaatatatg aagtctttgt tcaagagtct ctaaactggg 350880
tttctgggaa attaaatata cgtttgggct cacttttttt ttttttaaatt cttaccagg 350940
gtttgtcttg aactcctaac ctcaagtgat cctcccgtg agcccacttt ttaaaaggga 351000
ttagccatg caaattctgg aaactgtaga aataattaaa atagatataa atatatatTT 351060
atattcactt tccagaagtc ttacaacat ttgtggggat aggttattaa gtggttttct 351120
acagtgatgt cattgttcga tggcagaaat taagaggcca catcacaaaa acactgtcca 351180
ggcttttgct tggcagaaac tgagcaggga actgctttca ataacatcat aaaagatagt 351240
gttttccttt atggagcagc aggagccgtg gtgggatgat ttagaaggct tttcatggaa 351300
ataccagaga gttagcagcg agctatggga agacatagtc agaggccgtg aaacctggac 351360
ccggtgtcac actgtagtca ttagaagagg agtaaagtgg aggacaataa tggaacaggc 351420
agagctgggg caatttcagt ggtgagggtc ggtgtttgat ttggaagtgg agtctcatct 351480
gggatccacc actcccttta tttgctaaga gactttaaga aattaacagc ctctctgagc 351540
cttagtttct tcataatctaa aatgaaagta atgatattca cctgacagca taattaagaa 351600
gattaaattc aataaagcag acataccctc cagcatattc cttttgcaga gcattttcca 351660
catccatttt cttgactgat cctcaacctc ctttgagta gtgttactat taggtcctgg 351720
atctagctcc atgttaaaga tgagaaaact aaggcacaaa gctgttactt gcctgagatc 351780
acagacctag taagtggcag agcaaggact tagactgaaa tcctgattct agtttctgtg 351840
cttgagaaaa gtctgcttaa tgcttccgag tgccaagtca caccagccag gccagctcc 351900
caggattgca cagagaaaaa gaactcttaa tgactacatt atttgaccct ttgataaggg 351960
taaacaaata tttcaatagg tgtcacctgc aaaagaatca gtgaaagagg tgtatcagaa 352020
aaccttgctt agatgtcagc ttttctccaa cttgataaac atcccaacat taacttatcg 352080
ccaccataga gtgtcagaat aaatagtata cctgtgactt tgaagatagg gaaaccaaag 352140
cccagatggc aaatgtgaaa ggacttgctt tatcaaaactg gtggagtccc agaagttgca 352200
aatcatcccc ttcatgaacg gtttccaaga aaagcattct atacttagga aatcatcctc 352260
ttcaagaaca gtttccaaga aaagcattct atacttaaga aattaaatct aaattaagaa 352320
aataaagaac actcacaact aaaagctatc tttaaagaaa aaaaaaatgg ctattgtttt 352380
cctgagacct cccacatgtt gggaaataac ttacagttag gcagtttctt tgtggtgtag 352440
tctgaactct tgaatagctg gctgtgtatg gattgcggca gtcaccataa caatgggctc 352500
atcttaaaac gttcatttag attcattatt ggaactgtga gcagtgagaa aggaatggctc 352560
tctcaggacc gtaaggggtt tgcttacagc tcttcttagt tgctccagcc tagctatttg 352620

```

```

taactcaaac agctaagaca catgccacaa ttttaagaaa caggataact caccaggagg 352680
aatgtgctta aagtcttata aaaagaataa caaaagcaag ataaatctgg aaaagtataa 352740
gtagtaaaca gaattgggtg tctggagttt agtcactaag caaaaatata ataagatgct 352800
tgaagtaaag tttgaaaatg agggaggaat ctctttaaaa ggataactac cagggtgaaca 352860
ttggaagcct ggccctccgtt ccagaccata agatcctttt tttgtctttc aacttggagc 352920
caacactaaa ttcatgtcca gtgcacttgt attcactaat ggaatgtcct gtttcttggt 352980
ggaagtgttac acactgggct ttagaaacat gtagaggcat ttgtagattc ccgctaactg 353040
aataggtggc aagtgtttta ggcaaagggt agtttggttg aaattcactt ctaggggtatt 353100
tgtattaatg ggtagaatta tttggattga atttgccaat aaaaagacaa agtaactgaa 353160
tgaatTTTTT cttttttttt ttcttttttt ttttctgac agagagtatt gctctgtcac 353220
ccaggctgga gtgcaatggc acaatctcgg ctactaaaa cctccacctc ccatgtccaa 353280
gcagttcttc tgccgtgtatc ctgtatctgg gattacaggc atatgccacc ctacctggct 353340
aatTTTTgtA ttttttagtag agatgaggtt tcaccatgtt ggtcacgctg gtcttgaact 353400
cctgacctca ggtgatccac ccatctcagc ctcccaaagt gctgagatta caggcatgag 353460
ccaccatgcc cagccatgaa ttttttttta agaccaaca gtatgctgcc tacaagagtc 353520
acctcacttt taaggacacc catagactga aagtgaaaag ttggaaaaag atactccatg 353580
caaatagaaa ccaaaaagaaa gcagggatag ctaaacttat atcagacaaa atagacttta 353640
agtcaaaaac tgtaaaaaga gacattatat aatgataaga gcatcaattc atcaagagga 353700
tataacagtt atatatgcac ccaacattga aacacctaaa tacataaaat attgaaggat 353760
ctgaaggagg ggataaattg caatacaata atagtaggag actttaatac tctacagata 353820
atccagacag aaaattaata aacattgggc ttgaacaata ctgtagacca aatggacctt 353880
actgacgttt catccaacag caactgtata cacatccttc tcaagcatac atggaacatt 353940
ctccaggata gatcaaagt taaggcacia cacaagcctc agcaaatttt agaagcctga 354000
aattatatca agtatctttt cagaccacag tgtaagaaa ctagaaatca atgccagaag 354060
gaattttgga aaattcacga atacatggaa ataaaaaaca tacttctgaa caacaaatgg 354120
gtcagtgaag aaattaaatg gaaattaaaa aatattttga ggcaaattga aacacaactt 354180
attaaaatgt atgggatacg gccaggcaca gtggctcaca cctgtaatcc cagcactttg 354240
ggaggctgag gtgagcagat catgaggtca agagatggag accatcctgg ctaatagggt 354300
aaaaccctt ctctactaaa aatacaaaaa attagctggg tgtggtgacg ggtgcctgta 354360
gtcccaggta ctcgggaggc tgaggcagga gaatggtgtg aaccaggag gcggagcttg 354420
cagtgagcca agatcatgcc actgcagtct agcctgggtg acagagttag actccttcta 354480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggatacagca caagtagttc taaaagcaaa 354540
gtttaaagca ataaacacct acatcaaaaa gcaagagaga tcccaacgta acattatacc 354600
tcacggaact ggggggaggg agaaactaag ccaaagtta gcagaaggaa ggaaacaaga 354660
tgaaaacaga aataattgaa ggagactaga aaaacagtac aaagatcaac aaaactaaga 354720
gttgTTTTTc tgaaaagata aaaatcaaca aatctttagt tacaccaaga agacacaaaa 354780
tcagaaaaaa agattacagc aaatacccca gaaatacaca ggaacatttg agactattag 354840
gaacaaatat atgccaacaa attggataac ctagaagaaa tgtataaatt tctagataca 354900
tgcaacttat caagactgaa gaaatagaaa atccaacaga ccaatgggta aggagatgaa 354960

```


atcaataagt tttccatcaa agaaaaccct agggcctgat ggcttcatgg ctgaactcta 355020
ccaaatatatt aaagaactaa taccaatcct tctcagattc tttcaaaaag gtaaattgagg 355080
agggaatact tccaaactct tttttgcaag gccagcatca tcctcatatc aaaggcaggc 355140
aaggccatta caaataataa taataataaa ttacaggcca atatccttta tgaacataga 355200
tgtaaaaaatc cccagtataa tgctagcaaa cccaattcaa caacacatta aaggatcatc 355260
caccatgatc aagtaggatt tatccctggg acgcaaggat gattcagcat acccaaatcg 355320
acaaatgtga tacatcatta acagaatgaa ggccaaaaac catataatta tctcattaga 355380
tgcaaagaaa gtgtttgaca aaattgacaa gtttattgct gggttatatt tcagttctaa 355440
atagcaataa taataatagc taactcctac tgtgcaactaa cttcatgcca ggtgtgtttt 355500
aagcacttca caggattata ctcagtacta ctcagataga gttccgttaa ttttattttc 355560
tttttttaatt atcagccaaa tcgcttattg atttggtttc atttctgcta tttttttctt 355620
tgtctgtcca ttgactctaa gccataaatt tttatgcaat tttaatctga ttatcatttc 355680
ctcttaagtt ttttgaggat tggtttcatt ttgctagaag aaccttgatga gaccttcttc 355740
ctccattccc cttcaaagac tcttgtagt ttcagtcaac caaatgtga taatgtctaa 355800
gtaaaactgg catitttcaag tttctgtaac agtaagcctc ttgatgatta tgtaaatgtt 355860
aacaatatagg aagaaaacat cccagattct taatagaaga aatcaggttt gtcatacaga 355920
gatgaaaact caagacagac caccaaatta tttaaatgtt agtttgtgat aaagtgggct 355980
acatccaaaa aaaattcctc aagaaaacaa gtaggcatgc cacaaaactg ggagaaaata 356040
ttctcaacac atatatctgg ctaaggactt agatccagat cacataacaa ggccctgcaa 356100
attaataaaa gtcaagcgaa ttgcaaatta aagataggca aaagacttgt acatattatt 356160
cacagaagaa ggtacatgaa caaccagtaa gcacgtgaaa agatgcgcag catctttcag 356220
catcacagaa atgcagtcgt ggtaccattc gcaccctcta ggatagctaa aatagaaaag 356280
actgacgatc aatgttgaag aggatgtggt gcaactcaga ctctcgtgcg caaagggatc 356340
caatctcttg agaaaactgt ttcttgtaaa gttactaca gaactactct gtgaccagc 356400
acttccttgt atttaccag aaaaataact taagttctca aaatttgaac aaaaacattc 356460
ataacattct tattaatagc atttttatta tacgaaacct ccaaactgga aataaccga 356520
atgtccatcg aaaagaaaat ggaggaatta aggtatagtt ataaggaact actaccgaat 356580
agctcgataa catgagtga tctcatagc acaaggaggt gtgttctgca tgattccatt 356640
tatatgaact cctagtataa gcaaaattaa ttacagaatt agaagtcatt atagtgtcta 356700
cctcttgggg tggagggtgg atatcttgag gggatgcgtt tgtaatgtat ccagttgtca 356760
aaaaatcatc ctgctggaat atttacattt tgtttgccta gtttttaatt gtttccattt 356820
tagaatgtta actttgttct tgggaccaa aacatagacc tatttgtatt atgacatctt 356880
ctgatttata gtctaaatca ggggtcccca acccccaggc cgggtaccag tactggtgag 356940
tgccctatta ggaaccaggc gcacagcag gaagtgattg acaagcagga acgttactgc 357000
ctgagctctg cctcctgtca gatcagtaag gcattagatt cccacagaag catgaagcgt 357060
attgtgaact gtgtatacga gggatctagg ttgtgcactc ctcatgcgga tctaaccct 357120
gatgacctga ggtggaacaa tttcactttg aaactacccc tgtccgtgga aaacttgtcc 357180
tccacaaaac cagtccctgg tgcccaaaag gttggggacc gctgacctaa attattaaaa 357240
tttagtgaga tgcatcctta ctacttaaaa tgtcagctgc atttctagtc agtgccttat 357300

ctccttctgt caaagttcga gtcactggat tttatatgtt ttcattcaaa gtgtgttgga 357360
ataccctttt tatggttgga atacagattg agagaagtac atttttatat catctttgtt 357420
ataagagtga atgtgaatat aaaccaagag tgaatggagt gaatctaaac caagattcctt 357480
ctagagacaa cagtgttgct ataaattaat taactaggac tcttcttttc ctgaagggtg 357540
acaagggaga agaagccaca ttccaaatct caggcctcca gaccaacaca gactacaggt 357600
tccgcgtatg tgcgtgtcgt cgctgttttag acacctctca ggagctaagc ggagccttca 357660
gccccctctgc ggcttttgta ttacaacgaa gtgagggtcat gcttacaggg gacatgggga 357720
gcttagatga tcccaaaatg aagagcatga tgcctactga tgaacagttt gcagccatca 357780
ttgtgcttgg ctttgcaact ttgtccattt tatttgcctt tatattacag tacttcttaa 357840
tgaagtaaac ccaacaaaaac tagagggtatg aattaatgct acacatttta atacacacat 357900
ttattcagat actccccctt tttaaagcct tttgtttttt gatttatata ctctgtttta 357960
cagatttagc tagaaaaaaa atgtcagtgt tttggtgcac ctttttgaaa tgcaaaacta 358020
ggaaaaggtt aaactggatt ttttttttta aaaaaagaa aaaaaagaa gaaaagtata 358080
ccagatacca aaagctagct ttcttatgtt ttcctttaaa ttttcagatt taccttcatt 358140
ctgttttcac tgatgtcttt tgcaagcctt tgattttttt ttttttgta cagtttagta 358200
atttatattc accagtcact tcatatgtct tgaacatctg tatctgtaaa catgaatcac 358260
cgtgtgtgta cttacagggc taggatttca gtgttgcag agtattacca cacagcaaca 358320
gcaacataca gaagatatgt tcactcagat aagactgccc taaacaacca ttttgtcact 358380
cagttattta actgtgttta gctcatttaa atcaaaatgt gtactttaat ctaaaatgtt 358440
ttaataatct gtatttctta taattttaac actatgagct gcctgtataa gaaatcaagt 358500
aaccagaatg cacctataaa ttatggagca ttgtagattt taccacatca attcatagca 358560
gtaactttta gagggcattg tgcaatagtt agttgttttc ttgttcagct attttaaagg 358620
ctgctttaac ttgtttgttt gtctttgtat ataactactt ctaatctaata cactagagtt 358680
atttatattc gtatgtttg accagaatta tatgacaaga actggtgaca gtttagtgcc 358740
tctgcccatt gtccatgatt tacactaatt gtgagcagtc ttcttatgtg tcagctcatt 358800
atttttgaaa catttgcctt taggctgttc tttgaggtat caatgaagtg attgaatttc 358860
aataacctta ttcagtgac ataatactaa tgtaacagca gatgaaaatt gataaaaccc 358920
aaaagagagt catctaaatt ttagtttctt atttctgtgg gtttgcctgg ccatggttg 358980
agagggaatg gtgtttgatg gtaaacacag ggtgtttggg gatcaaggag cctagattct 359040
ctccctggat ctgtcactaa cttgctgcgt gacctgaaca cgctacttta cctctctgtg 359100
cctcagtttt cccatgcatg aaaaaataaaa taaaataaaa cggggattct aatgtttgta 359160
agtgtttga gatctttgac caacaggtgc tattggagtg caaagtgtta ctcttacgtg 359220
tttattttga gtcatgagat aatcaatttt aaccctaaagt cattggatta tttatatgaa 359280
gtccataatg ttcgagtacc tcaggacat ttaagagttg gaggtgcaaa tatattccaa 359340
aagggtgcaa cagacacagt gtatccccct gcttctgttt ttgtatattt ttgctacttg 359400
gtttttcttg atcatagcta ttttgtgctt gatctttatt gtctaagatg cagtatcctg 359460
tactagctta taatattccc ataccctaaagt catggggaaa caaacattat tttgtttttg 359520
gtttatttat actatattct gcatacagta ctttaaagtc caattacagt gcaatcttta 359580
tttattgtaa aattttttta gtgtacttat gtactaattt tccctttag catgttatat 359640

ttttgtgttt tatacttttg taatttttagg tcagtcttgt tccttggcaa catctgtagt 359700
attattaatc ttctgacatt ttcttatgtt tttaaaaaga taagagcatc tagtgacatta 359760
aatgccaaaa aaaaaataca ttatcagtga ttgaaacgtt tacatgtacc caaaaacat 359820
aatcatctct tggaagaaaa tgctgagatc aatgaattat tctgtgtgcc tatattgacg 359880
tagtgagtac tagagagttc tgtattttat tattgactat aataattagt ttaattagct 359940
ttgcaaaactg atggcatcaa ggtaaataata tttttgccaa agttctggcc ttccaaaact 360000
cacccccctta tttaaatgtg tgctatgacc cactatgacc acagcatctg cattttctaa 360060
aaaattccat gcagggtgtt tggggagagg tattttttta gcaatgaaaa ttcaactgag 360120
tacaaagccc cctcttgggg ggttggggaa gtctcttttt tgaaacactt cagaactgct 360180
gctataaaga aattctctaa ttggttgaat ttttttttta agtaaatagt acttttaggc 360240
aaaatttata tgaatatttg atcttcttga gattttcata ctatcattta accaccagga 360300
agctgaagtg tgtgaagtac aaagctgaca gcactttatt ttattgctct ccattatttg 360360
gtattcatta tattccttca gtcagaaaat tattactctc tatggcactg ttttttatca 360420
caaatatgta tatgtgatat tgatatataa ctatatatat tgccatcaca cacgaacaat 360480
aaaataaagt gttctattaa cctgatctct ttgccctttt gctatgtgag gagtgaatga 360540
gtggccttct gatgctctga ctcttctctg tatgtcaaac tcatccctgg cacaagaaat 360600
tcagtcatg tgaagcaaac tgccctttgt cctcaaagaa attgttgaaa aagaaaactt 360660
tttaaagaga ttttttgcatt attctctgcc ttgttcttat caacttgaaa tgttggcatt 360720
ttctaacctt gttttgttgg ctacaataat tcagtattca tgtcaaaatt gagaagtgcc 360780
ctaattgaat gtgtttgaat gttatccttg cacaattctt taaattgaaa gataaaatgt 360840
tttacctcac tgttggacat acattccaag cttttcaact ctaggagaaa aagaaaatca 360900
tgttttcctg tattgtaaatt ttagactat ttcatataca ttgtattaaa actgccatat 360960
caattttaat gtatagattt tgcaaatatt atgctatatg taatacctaa ctgtatctgt 361020
agtgtatatg taatatattt atgccaata aatgttttaa ttctttctga cttaaataagg 361080
gtttttctgc catgactagg attgcttttg ttgttgttgt tgttgtttct ttcttttttt 361140
ttttttttga gacggagtct tgctctgtcg ccaggctgga gtgcagtggc gcgatctcag 361200
ctcactgcaa cctccagctc ccaggttcaa gtgattcccc tgcctcagcc tccaagtag 361260
ctggggatta caggcactcg ccaccatgcc cggataattt tttttttttt tttgagttgg 361320
agtcttgctc tgctgcccag gctggagtgc agtgacccaa tctcggtcca ctgcaagctc 361380
cacctcccgg gttcatgcca ttctcctgcc tcagcctccc aagtagctgg gactacaggt 361440
gcccgccacc acgcccggct aattttttta attttagtag agtcgggggt tcaccatgtt 361500
ggccaagatg gtctcgatct gacctcgtga tctgcccgc tcggcctccc aaagtgtgg 361560
gattacaggt gtgagcccc gcaccagcc ttattcttcc cttttaaata cttaaagcac 361620
attcagatta gttgaaaatt cacgtgtttt tggaggccag gcaggtggcc ttctgcagag 361680
acagcagcag ctgagctctt gctgaccaag gccttggagg actgtgagcc acaatcacat 361740
atgtccatgt ttcaaaagaa gctaaatata cagatttctt ccatgggcca actaaaaggt 361800
gattgtggac tatacaggct gccagtttaa tcctttatca gagtctctgt ggataatgta 361860
cctgttgcc taatacttta tctgtctacc aaaactcagt ccagatctcc ctctgttcac 361920
ctggcacact ggggtgcttc tctcccctga cgaactctat agagtgttca tgtcctttcc 361980

tgcaggtctc attcaacaac aacaacaaca acagcaataa aacacagtgt tcctgcta 362038
 <210> 2
 <211> 7904
 <212> DNA
 <213> 人(homo sapiens)
 <400> 2
 aagctcgggc gggggagcgg ggcgcggcgg gaaggagcgg gcgacccggt gtgtgggcca 60
 gcggagctcc ggaagccagt tgagggaagt tctccatgaa tgtacgtcac aatgatgatg 120
 accgacaaaa tccctctgga actgccacca ttgctgaacg gagaggtagc catgatgccc 180
 cacttgggtga atggagatgc agctcagcag gttattctcg ttcaagttaa tccaggtgag 240
 actttcacaa taagagcaga ggatggaaca cttcagtga ttcaaggacc tgctgaagtt 300
 cccatgatgt cacccaatgg atccattcct cccattcatg tgccctcagg ttatatctca 360
 caggtgattg aagatagtagc tggagtcgcg cgggtggtgg tcacaccca gtctcctgag 420
 tgttatcccc caagctaccc ctccagccatg tctccaaccc atcatctccc tccctatctg 480
 actcaccatc cacattttat tcataactca cacacggctt actaccacc tgttaccgga 540
 cctggagata tgccgcctca gttttttccc cagcatcatc ttccccacac aatatatggt 600
 gagcaagaaa ttataaccatt ttatggaatg tcaacctaca tcacccgaga agaccagtac 660
 agcaagcctc cgcacaaaaa actgaaagac cgccagatcg atcgccagaa ccgcctcaac 720
 agccctcctt cttctatcta caaaagcagc tgcacaacag tatacaatgg ctatgggaag 780
 ggccatagtg gtggaagtgg cggaggcggc agcggtagtg gtcccgaat taagaaaaca 840
 gagcgacgag caagaagcag cccaaagtcg aatgattcag acttgcaaga atatgagttg 900
 gaagtaaaga ggggtgcaaga cattctttcg ggaatagaga aaccacaggt ttctaattatt 960
 caggcaagag cagttgtgtt gtcctgggct cccctgttg gactttcctg tggacccac 1020
 agtggctctt ccttccccta cagttacgag gtggccttat cagacaaagg acgagatgga 1080
 aaatacaaga taatttacag tggagaagaa ttagaatgta acctgaaaga tcttagacca 1140
 gcaacagatt atcatgtgag ggtgtatgcc atgtacaatt ccgtaaaggg atcctgctcc 1200
 gagcctgtta gcttcaccac ccacagctgt gcacccgagt gtcctttccc ccctaagctg 1260
 gcacatagga gcaaaaagttc actaacctg cagtgggaagg caccaattga caacggttca 1320
 aaaatcacca actacctttt agagtgggat gagggaaaaa gaaatagtgg tttcagacag 1380
 tgcttcttcg ggagccagaa gcactgcaag ttgacaaagc tttgtccggc aatggggtac 1440
 acattcaggc tggccgctcg aaacgacatt ggtaccagt gttatagcca agaggtggtg 1500
 tgctacacat taggaaatat ccctcagatg cttctgcac caaggctggt tcgagctggc 1560
 atcacatggg tcacgttgca gtggagtaag ccagaaggct gttcacccga ggaagtgatc 1620
 acctacacct tggaaattca ggaggatgaa aatgataacc ttttccacc aaaatacact 1680
 ggagaggatt taacctgtac tgtgaaaaat ctcaaaagaa gcacacagta taaattcagg 1740
 ctgactgctt ctaatacggg agggaaaaagc tgtccaagcg aagttcttgt ttgtacgacg 1800
 agtcctgaca ggccctggacc tcctaccaga ccgcttgta aaggccagc tacatctcat 1860
 ggcttttagtg tcaaatggga tccccctaag gacaatggtg gttcagaaat cctcaagtac 1920
 ttgctagaga ttactgatgg aaattctgaa gcgaatcagt gggaagtggc ctacagtggg 1980

tcggctaccg aatacacctt caccacttg aaaccaggca ctttgtacaa actccgagca 2040
 tgctgcatca gtaccggcgg acacagccag tgttctgaaa gtctccctgt tcgcacacta 2100
 agcattgcac cagggtcaatg tcgaccaccg agggttttgg gtagacaaa gcacaaagaa 2160
 gtccacttag agtgggatgt tcctgcatcg gaaagtggct gtgaggtctc agagtacagc 2220
 gtggagatga cggagcccga agacgtagcc tcggaagtgt accatggccc agagctggag 2280
 tgcaccgtcg gcaacctgct tcctggaacc gtgtatcgct tccgggtgag ggctctgaat 2340
 gatggagggt atgggcccta ttctgatgtc tcagaaatta ccactgctgc agggcctcct 2400
 ggacaatgca aagcaccttg tatttcttgt acacctgatg gatgtgtctt agtgggttgg 2460
 gagagtcttg atagtcttg tgctgacatc tcagagtaca ggttggaatg gggagaagat 2520
 gaagaatcct tagaactcat ttatcatggg acagacacc gttttgaaat aagagacctg 2580
 ttgcctgctg cacagtattg ctgtagacta caggccttca atcaagcagg ggcagggccg 2640
 tacagtgaac ttgtcctttg ccagacgcca gcgtctgccc ctgaccccgct ctccactctc 2700
 tgtgtcctgg aggaggagcc ccttgatgcc taccctgatt caccttctgc gtgccttgta 2760
 ctgaactggg aagagccgtg caataacgga tctgaaatcc ttgcttacac cattgatcta 2820
 ggagacacta gcattaccgt gggcaacacc accatgcatg ttatgaaaga tctccttcca 2880
 gaaaccacct accggatcag aattcaggct ataaatgaaa ttggagctgg accatttagt 2940
 cagttcatta aagcaaaaac tcggccatta ccacccttgc ctccctaggct agaattgtgt 3000
 gctgctggtc ctgagagcct gaagctaaaa tggggagaca gtaactccaa gacacatgct 3060
 gctgaggaca ttgtgtacac actacagctg gaggacagaa acaagaggtt tatttcaatc 3120
 tacagaggac ccagccacac ctacaaggct cagagactga cggaattcac atgctactcc 3180
 ttcagaatcc aggcagcaag cgaggctgga gaagggccct tctcagaaac ctataccttc 3240
 agcacaacca aaagtgtccc cccaccatc aaagcacctc gagtaacaca gttagaagga 3300
 aattcatgtg aaattttatg ggagacggta ccatcaatga aaggtgacct tgtaactac 3360
 attctgcagg tattgggttg aagagaatct gagtacaaac aggtgtacaa gggagaagaa 3420
 gccacattcc aaatctcagg cctccagacc aacacagact acaggttccg cgtatgtgcg 3480
 tgtcgtcgct gtttagacac ctctcaggag ctaagcggag ccttcagccc ctctgcggct 3540
 tttgtattac aacgaagtga ggtcatgctt acaggggaca tggggagctt agatgatccc 3600
 aaaatgaaga gcatgatgcc tactgatgaa cagtttgcag ccatcattgt gcttggcttt 3660
 gcaactttgt ccattttatt tgcctttata ttacagtact tcttaatgaa gtaaacccaa 3720
 caaaactaga ggtatgaatt aatgctacac attttaatac acacatttat tcagatactc 3780
 cccittttta agcccttttg ttttttgatt tatatactct gttttacaga tttagctaga 3840
 aaaaaaatgt cagtgttttg gtgcaccttt ttgaaatgca aaactaggaa aaggttaaac 3900
 tggatttttt tttttaaaaa aaagaaaaaa aaagaagaaa agtataccag ataccaaaag 3960
 ctacttttct tatgttttcc tttaaatttt cagatttacc ttcattctgt tttcactgat 4020
 gtcttttgca agcctttgat tttttttttt ttgttacagt ttagtaattt atattcacca 4080
 gtcacttcat atgtcttgaa catctgtatc tgtaaacatg aatcacctg tgtgtactta 4140
 cagggctagg atttcagtgt tgcagagta ttaccacaca gcaacagcaa catacagaag 4200
 atatgttcac tcagataaga ctgccctaaa caaccatttt gtcactcagt tatttaactg 4260
 tgttttagctc atttaaatca aaatgtgtac tttaatctaa aatgttttaa taatctgtat 4320

```

ttcttataat tttaacacta tgagctgcct gtataagaaa tcaagtaacc agaatgcacc 4380
tataaattat ggagcattgt agattttacc acatcaattc atagcagtaa ctttaagagg 4440
gcattgtgca atagftagtt gttttcttgt tcagctattt taaaggctgc tttaacttgt 4500
ttgtttgtct ttgtatataa ctacttctaa tctaatactt agagttatta tattctgtta 4560
tgtttgacca gaattatatg acaagaactg gtgacagttt agtgcctctg cccattgtcc 4620
atgattttaca ctaattgtga gcagtcttct tatgtgtcag ctcattattt ttgaaacatt 4680
tgccttttagg ctgttctttg aggtatcaat gaagtgattg aatttcaata ccttaattca 4740
gtgcacataa tactaatgta acagcagatg aaaattgata aaacccaaaa gagagtcac 4800
taaattttgta gttcctattt ctgtgggttt gcctggccat ggttgagag ggaatgggtgt 4860
ttgatggtaa acacaggggtg tttggggatc aaggagccta gattctctcc ctggatctgt 4920
cactaacttg ctgcgtgacc tgaacacgtc actttacctc tctgtgcctc agttttccca 4980
tgcataaaaa ataaaaataaa ataaaacggg gattctaattg tttgtaagtgt ctttgagatc 5040
tttgaccaac aggtgctatt ggagtgcata gtgttactct tacgtgttta ttttgagtca 5100
tgagataatc aattttaacc caaagtcatt ggattattta tatgaagtc ataatgttcg 5160
agtacctcag ggacatttaa gagttggagg tgcaaatata ttccaaaagg gtgcaacaga 5220
cacagtgtat cccctgctt ctgtttttgt atatttttgc tacttggttt ttcttgatca 5280
tagctatttt gtgcttgatc tttattgtct aagatgcagt atcctgtact agcttataat 5340
attcccatc caaagtcatt gggaaacaaa cattattttg tttttggttt atttatacta 5400
tattctgcat acagtacttt aaatgccaat tacagtgc aa tctttattta ttgtaaaatt 5460
ttttaagtgt acttatgtac taattttccc ttgtagcatg ttatattttt gtgttttata 5520
cttttgtaat tttaggtcag tcttgttcct tggcaacatc tgtagtatta ttaatcttct 5580
gacattttct tatgttttta aaaagataag agcatctagt gcattaaatg ccaaaaaaaaa 5640
aatacattat cagtgtatga aacgtttaca tgtacccaaa aaccataatc atctcttgga 5700
agaaaatgct gagatcaatg aattattctg tgtgcctata ttgacgtagt gactactaga 5760
gagttctgta ttttattatt gactataata attagtttaa ttagctttgc aaactgatgg 5820
catcaaggta aatatatttt tgccaaagt ctggccttcc aaaactcacc cccttattta 5880
aatgtgtgct atgaccact atgaccacag catctgcatt ttctaaaaaa ttccatgcag 5940
gtgttttggg gagaggtatt ttttaagcaa tgaaaattca actgagtaca aagccccctc 6000
ttgggggggtt ggggaagtct cttttttgaa acattcaga actgctgcta taaagaaatt 6060
ctctaattgg ttgaattttt tttttaagta aatagtactt taggccaaaa tttatatgaa 6120
tatttgatct tcttgagatt ttcatactat catttaacca ccaggaagct gaagtgtgtg 6180
aagtacaaag ctgacagcac tttattttat tgctctccat ttttggtat tcattatatt 6240
ccttcagtca gaaaattatt actctctatg gcactgtttt ttatcacaaa tatgtatatg 6300
tgatattgat atataactat atatatgcc atcacacacg aacaataaaa taaagtgttc 6360
tattaacctg atctctttgc ctttttgcta tgtgaggagt gaatgagtgg ctttctgatg 6420
ctctgactct tctctgtatg tcaaactcat ccctggcaca agaaattcca gtcattgtgaa 6480
gcaaactgcc ctttgtcctc aaagaaattg ttgaaaaaga aaacttttta aagagatttt 6540
ttgcatattc tctgccttgt tcttatcaac ttgaaatgtt ggcattttct aacctgtttt 6600
tgttggctac aataattcag tattcatgtc aaaattgaga agtgccttaa ttgaatgtgt 6660

```

ttgaatgtta tccttgcaca attctttaa ttgaaagata aaatgtttta cctcactggt 6720
 ggacatacat tccaagcttt tcaactctag gagaaaaaga aaatcatggt ttcctgtatt 6780
 gtaaatttta gactatttca tatacattgt attaaaactg ccatatcaat tttaatgtat 6840
 agatttttgca aatattatgc tatatgtaat acctaactgt atctgtagtg tatatgtaat 6900
 atattttatgc ccaataaatg ttttaattct ttctgactta aatagggttt ttctgccatg 6960
 actaggattg cttttgttgt tgttggtgtt gtttctttct tttttttttt ttttgagacg 7020
 gagtcttgct ctgtcgccag gctggagtgc agtggcgcca tctcagctca ctgcaacctc 7080
 cagctcccag gttcaagtga ttccctgcc tcagcctccc aagtagctgg ggattacagg 7140
 cactcgccac catgcccgga taattttttt tttttttttg agttggagtc ttgctctgtc 7200
 gccaggctg gagtgacgtg acccaatctc ggctcactgc aagctccacc tcccgggttc 7260
 atgccattct cctgcctcag cctcccaagt agctgggact acaggtgccc gccaccacgc 7320
 ccggctaatt tttttaattt tagtagagtc ggggtttcac catgttggtc aagatggtct 7380
 cgatctgacc tcgtgatctg ccgcctcgg cctcccaaag tgctgggatt acaggtgtga 7440
 gccccgcac ccagccttat tcttcccttt taaatactta aagcacattc agattagttg 7500
 aaaattcacg tgtttttgga ggccaggcag gtggccttct gcagagacag cagcagctca 7560
 gctcttgctg accaaggcct tggaggactg tgagccacaa tcacatatgt ccatgtttca 7620
 aaagaagcta aatatccaga tttcctccat gggccaacta aaaggtgatt gtggactata 7680
 caggctgcca gtttaatcct ttatcagagt ctctgtgat aatgtacctt gttgcctaata 7740
 actttatctg tctacaaaaa ctcagtcag atctccctct gttcacctgg cactctgggt 7800
 gcttcctctc ccctgacgaa ctctatagag tgttcatgtc ctttctgca ggtctcattc 7860
 aacaacaaca acaacaacag caataaaaca cagtgttct gcta 7904

<210> 3

<211> 408

<212> DNA

<213> 人(homo sapiens)

<400> 3

agctcgggcg ggggagcggg gcgcggcggg aaggagcggg cgacccggtg tgtgggccag 60
 cggagctccg gaagccagtt gagggaagtt ctccatgaat gtacgtcaca atgatgatga 120
 ccgaccaaata ccctctggaa ctgccaccat tgctgaacgg agaggtagcc atgatgcccc 180
 acttgggtgaa tggagatgca gctcagcagg ttattctcgt tcaagttaat ccaggtgaga 240
 ctttcacaata aagagcagag gatggaacac ttcagtgcac tcaagatgaa gtgggtgaaga 300
 gagcctgcga ttgaagattt tttcatctca gtttttccc cttaccttg ttctctctca 360
 tgtttcatga tctgtgtcat agatatttct tcattacgag cacttcgc 408

<210> 4

<211> 678

<212> DNA

<213> 人(homo sapiens)

<400> 4

agcagacact ggaatgtgaa tgcattggga ggtgagccct taaggagagc ccaaatgttt 60

accaaagaga aaatctggtc agaggttatt ctcgttcaag ttaatccagg tgagactttc 120
 acaataagag cagaggatgg aacacttcag tgcatccaag gacctgctga agttcccatg 180
 atgtcaccca atggatccat tcctcccatt catgtgcctc caggttatat ctcacaggtg 240
 attgaagata gtactggagt ccgccgggtg gtggtcacac cccagtctcc tgagtgttat 300
 cccccaagct acccctcagc catgtctcca acccatcatc tccctcccta tctgactcac 360
 catccacatt ttattcataa ctcacacacg gttactacc cacctgttac cggacctgga 420
 gatatgccgc ctgagttttt tccccagcat catcttcccc acacaatata tggtagcaa 480
 gaaattatac cattttatgg aatgtcaacc tacatcaccg gagaagacca gtacagcaag 540
 cctccgcaca aaaaactgaa agaccgccag atcgatcgcc agaaccgcct caacagccct 600
 ccttcttcta tctacaaaag cagctgcaca acagtataca atggctatgg gaagggccat 660
 agtggtgga gtggcgga 678

<210> 5

<211> 3684

<212> DNA

<213> 人(homo sapiens)

<400> 5

agtgtctacc accaaactcc taaggctgga tggtaggaagc cagttgaggg aagttctcca 60
 tgaatgtacg tcacaatgat gatgaccgac caaatccctc tggaactgcc accattgctg 120
 aacggagagg tagccatgat gcccacttg gtgaatggag atgcagctca gcaggttatt 180
 ctcgttcaag ttaatccagg tgagactttc acaataagag cagaggatgg aacacttcag 240
 tgcatccaag gacctgctga agttcccatg atgtcaccca atggatccat tcctcccatt 300
 catgtgcctc caggttatat ctcacaggtg attgaagata gtactggagt ccgccgggtg 360
 gtggtcacac cccagtctcc tgagtgttat cccccaagct acccctcagc catgtctcca 420
 acccatcatc tccctcccta tctgactcac catccacatt ttattcataa ctcacacacg 480
 gttactacc cacctgttac cggacctgga gatatgccgc ctgagttttt tccccagcat 540
 catcttcccc acacaatata tggtagcaa gaaattatac cattttatgg aatgtcaacc 600
 tacatcaccg gagaagacca gtacagcaag cctccgcaca aaaaactgaa agaccgccag 660
 atcgatcgcc agaaccgcct caacagccct ccttcttcta tctacaaaag cagctgcaca 720
 acagtataca atggctatgg gaagggccat agtggtgga gtggcgagg cggcagcgg 780
 agtggtcctg gaattaagaa aacagagcga cgagcaagaa gcagcccaa gtcgaatgat 840
 tcagacttgc aagaatatga gttggaagta aagagggtgc aagacattct ttcgggaata 900
 gagaaaccac aggtttctaa tattcaggca agagcagttg tgttgctctg ggctccccct 960
 gttggacttt cctgtggacc ccacagtggg ctttcttcc cctacagtta cgaggtggcc 1020
 ttatcagaca aaggacgaga tggaaaatac aagataattt acagtggaga agaattagaa 1080
 tgtaacctga aagatcttag accagcaaca gattatcatg tgagggtgta tgccatgtac 1140
 aattccgtaa agggatcctg ctccgagcct gtagcttca ccaccacag ctgtgcaccc 1200
 gagtgcctt tccccctaa gctggcacat aggagcaaaa gttcactaac cctgcagtgg 1260
 aaggcaccaa ttgacaacgg ttcaaaaatc accaactacc ttttagagtg ggatgaggga 1320
 aaaagaaata gtggtttcag acagtgttc ttcgggagcc agaagcactg caagttgaca 1380

aagctttgtc cggcaatggg gtacacattc aggctggccg ctcgaaacga catttggtacc 1440
 agtgggttata gccaagaggt ggtgtgctac acattaggaa atatccctca gatgccttct 1500
 gcaccaaggc tggttcgagc tggcatcaca tgggtcacgt tgcagtggag taagccagaa 1560
 ggctgttcac ccgaggaagt gatcacctac accttggaat ttcaggagga tgaatgat 1620
 aaccttttcc acccaaaaata cactggagag gatttaacct gtactgtgaa aaatctcaaa 1680
 agaagcacac agtataaatt caggctgact gcttctaata cggaaggaaa aagctgtcca 1740
 agcgaagttc ttgtttgtac gacgagtcct gacaggcctg gacctcctac cagaccgctt 1800
 gtcaaaggcc cagttacatc tcatggcttt agtgtcaaat gggatcccc taaggacaat 1860
 ggtgggttcag aaatcctcaa gtacttgcta gagattactg atggaaattc tgaagcgaat 1920
 cagtgggaag tggcctacag tgggtcggct accgaataca cttcaccca cttgaaacca 1980
 ggcactttgt acaaaactccg agcatgctgc atcagtaccg gcggacacag ccagtgttct 2040
 gaaagtctcc ctgttcgcac actaagcatt gcaccagtc aatgtcgacc accgagggtt 2100
 ttgggtagac caaagcaca agaagtcac ttagagtggg atgttctctgc atcgaaagt 2160
 ggctgtgagg tctcagagta cagcgtggag atgacggagc ccgaagacgt agcctcgaa 2220
 gtgtaccatg gcccagagct ggagtgcacc gtcggcaacc tgcttctctg aaccgtgtat 2280
 cgcttccggg tgagggtctt gaatgatgga gggatatgtc cctattctga tgtctcagaa 2340
 attaccactg ctgcagggcc tcctggacaa tgcaaagcac cttgtatttc ttgtacacct 2400
 gatggatgtg tcttagtggg ttgggagagt cctgatagtt ctggtgctga catctcagag 2460
 tacaggttgg aatggggaga agatgaagaa tccttagaac tcatttatca tgggacagac 2520
 acccgttttg aaataagaga cctgttgctt gctgcacagt attgctgtag actacaggcc 2580
 ttcaatcaag caggggcagg gccgtacagt gaacttgtcc ttgcccagac gccagcgtct 2640
 gcccctgacc ccgtctccac tctctgtgtc ctggaggagg agcccctga tgcctacct 2700
 gattcacctt ctgcgtgcct tgtactgaac tgggaagagc cgtgcaataa cgatctgaa 2760
 atccttgctt acaccattga tctaggagac actagcatta ccgtgggcaa caccaccatg 2820
 catgttatga aagatctcct tccagaaacc acctaccgga tcagaattca ggctataaat 2880
 gaaattggag ctggaccatt tagtcagttc attaaagcaa aaactcggcc attaccacc 2940
 ttgcctccta ggctagaatg tgctgctgct ggtcctcaga gcctgaagct aaaatgggga 3000
 gacagtaact ccaagacaca tgctgctgag gacatttgtt acacactaca gctggaggac 3060
 agaaacaaga ggtttatttc aatctacaga ggaccagcc acacctaca ggtccagaga 3120
 ctgacggaat tcacatgcta ctcttcaga atccaggcag caagcgaggc tggagaaggg 3180
 cccttctcag aaacctatac cttcagcaca accaaaagt tccccccac catcaaagca 3240
 cctcgagtaa cacagttaga aggaattca tgtgaaattt tatgggagac ggtaccatca 3300
 atgaaagggtg accctgttaa ctacattctg caggtatttg ttggaagaga atctgagtac 3360
 aaacaggtgt acaagggaga agaagccaca ttccaaatct caggcctcca gaccaacaca 3420
 gactacaggt tccgcgtatg tgcgtgtcgt cgctgtttag acacctctca ggagctaagc 3480
 ggagccttca gcccctctgc ggcttttgta ttacaacgaa gtgaggtcat gcttacaggg 3540
 gacatgggga gcttagatga tcccaaatg aagagcatga tgcctactga tgaacagttt 3600
 gcagccatca ttgtgcttgg ctttgcaact ttgtccattt tatttgcctt tatattacag 3660
 tacttcttaa tgaagtaaac ccaa 3684

<210> 6

<211> 5083

<212> DNA

<213> 人(homo sapiens)

<400> 6

gcggcggcgg cggctggagg aggagagcgg cggcggcggg agcagcgaag ggggcggcag 60
 ggatcctcca ggctgccggc tgggaaggcg tgggcgaccc ggtgtgtggc gcgcccagag 120
 ccccgcgttt cagccctagg gaaggaagcc agttgaggga agttctccat gaatgtacgt 180
 cacaatgatg atgaccgacc aaatccctct ggaactgcca ccattgctga acggagaggt 240
 agccatgatg ccccaacttg tgaatggaga tgcagctcag caggttattc tcgttcaagt 300
 taatccaggt gagactttca caataagagc agaggatgga acacttcagt gcattcaagg 360
 acctgctgaa gttcccatga tgtcacccaa tggatccatt cctcccattc atgtgcctcc 420
 aggttatatc tcacaggtga ttgaagatag tactggagtc cgccgggttg tggtcacacc 480
 ccagtctcct gagtgttatt cccaagcta cccctcagcc atgtctccaa cccatcatct 540
 cctccctat ctgactcacc atccacattt tattcataac tcacacacgg cttactaccc 600
 acctgttacc ggacctggag atatgccgcc tcagtttttt cccagcatc atcttcccca 660
 cacaatatat ggtgagcaag aaattatacc attttatgga atgtcaacct acatcacccg 720
 agaagaccag tacagcaagc ctccgcacaa aaaactgaaa gaccgccaga tcgatcgcca 780
 gaaccgcctc aacagccctc cttcttctat ctacaaaagc agctgcacaa cagtatacaa 840
 tggctatggg aagggccata gtggtggaag tggcggaggc ggcagcggta gtggtcccg 900
 aattaagaaa acagagcgac gagcaagaag cagcccaaag tcgaatgatt cagacttgca 960
 agaatatgag ttggaagtaa agagggtgca agacattctt tcgggaatag agaaaccaca 1020
 ggttttctaat attcaggcaa gagcagttgt gttgtcctgg gctccccctg ttggactttc 1080
 ctgtggaccc cacagtggtc tttccttccc ctacagttac gaggtggcct tatcagacaa 1140
 aggacgagat ggaaaataca agataattta cagtggagaa gaattagaat gtaacctgaa 1200
 agatcttaga ccagcaacag attatcatgt gaggtgtgat gccatgtaca attccgtaaa 1260
 gggatcctgc tccgagcctg ttagcttcac caccacagc tgtgcacccg agtgtccttt 1320
 cccccctaag ctggcacata ggagcaaaag ttcactaacc ctgcagtgga aggcaccaat 1380
 tgacaacggg tcaaaaatca ccaactacct ttagagtgg gatgaggga aaagaaatag 1440
 tggtttcaga cagtgttct tcgggagcca gaagcactgc aagttgacaa agctttgtcc 1500
 ggcaatgggg tacacattca ggctggccgc tcgaaacgac attggtacca gtggttatag 1560
 ccaagaggtg gtgtgctaca cattaggaaa tatccctcag atgccttctg caccaaggct 1620
 ggttcgagct ggcatcacat gggtcacgtt gcagtggagt aagccagaag gctgttcacc 1680
 cgaggaagtg atcacctaca ccttggaat tcaggaggat gaaaatgata accttttcca 1740
 cccaaaatac actggagagg atttaacctg tactgtgaaa aatctcaaaa gaagcacaca 1800
 gtataaatc aggctgactg cttctaatac ggaaggaaaa agctgtccaa gcgaagtct 1860
 tgtttgtacg acgagtcctg acaggcctgg acctcctacc agaccgcttg tcaaaggccc 1920
 agttacatct catggcttta gtgtcaaat ggatccccct aaggacaatg gtggttcaga 1980
 aatcctcaag tacttgctag agattactga tggaaattct gaagcgaatc agtgggaagt 2040

ggcctacagt gggtcggcta ccgaatacac cttcacccac ttgaaaccag gcacttttga 2100
caaactccga gcatgctgca tcagtaccgg cggacacagc cagtgttctg aaagtctccc 2160
tgttcgcaca ctaagcattg caccagggtca atgtcgacca ccgagggttt tgggtagacc 2220
aaagcacaaa gaagtcact tagagtggga tgttcctgca tcggaaagtg gctgtgaggt 2280
ctcagagtac agcgtggaga tgacggagcc cgaagacgta gcctcggaag tgtaccatgg 2340
cccagagctg gagtgcaccg tcggcaacct gcttcctgga accgtgtatc gcttcgggt 2400
gagggctctg aatgatggag ggtatggtcc ctattctgat gtctcagaaa ttaccactgc 2460
tgcagggcct cctggacaat gcaaagcacc ttgtatttct tgtacacctg atggatgtgt 2520
cttagtgggt tgggagagtc ctgatatgtc ttgtgtctgac atctcagagt acaggttggga 2580
atggggagaa gatgaagaat ccttagaact catttatcat gggacagaca cccgttttga 2640
aataagagac ctgttgacct ctgcacagta ttgctgtaga ctacaggcct tcaatcaagc 2700
aggggcaggg ccgtacagtg aacttgtcct ttgccagacg ccagcgtctg cccctgacct 2760
cgtctccact ctctgtgtcc tggaggagga gcccttgat gcctaccctg attcaccttc 2820
tgcgtgcctt gtactgaact gggaagagcc gtgcaataac ggatctgaaa tccttgctta 2880
caccattgat ctaggagaca ctagcattac cgtgggcaac accaccatgc atgttatgaa 2940
agatctcctt ccagaaacca cctaccgat cagaattcag gctataaatg aaattggagc 3000
tggaccattt agtcagttca ttaaagcaaa aactcggcca ttaccacctg tgcctcctag 3060
gctagaatgt gctgctgctg gtcctcagag cctgaagcta aaatggggag acagtaactc 3120
caagacacat gctgctgagg acattgtgta cacactacag ctggaggaca gaaacaagag 3180
gtttatttca atctacagag gaccagcca cacctacaag gtccagagac tgacggaatt 3240
cacatgctac tccttcagaa tccaggcagc aagcagggt ggagaagggc cttctcaga 3300
aacctatacc ttcagcacia ccaaaagtgt cccccacc atcaaagcac ctcagatac 3360
acagttagaa ggaaattcat gtgaaatttt atgggagacg gtaccatcaa tgaaaggtga 3420
ccctgttaac tacattctgc aggtattggt tggaagagaa tctgagtaca aacaggtgta 3480
caaggagaaa gaagccacat tccaaatctc aggcctccag accaacacag actacaggtt 3540
ccgcgtatgt gcgtgtcgtc gctgtttaga cacctctcag gagctaagcg gagccttcag 3600
cccctctgcg gcttttgtat tacaacgaag tgaggctatg cttacagggg acatggggag 3660
cttagatgat cccaaaatga agagcatgat gcctactgat gaacagtttg cagccatcat 3720
tgtgcttggc tttgcaactt tgtccatttt atttgcttt atattacagt acttcttaat 3780
gaagtaaacc caacaaaact agaggtatga attaattgta cacattttta tacacacatt 3840
tattcagata ctcccccttt taaagccctt ttgttttttg atttatatac tctgttttac 3900
agatttagct agaaaaaaaa tgtcagtggt ttggtgcacc tttttgaaat gcaaaactag 3960
gaaaaggtta aactggattt ttttttttaa aaaaaagaaa aaaaaagaag aaaagtatac 4020
cagataccaa aagctagctt tcttatgttt tcttttaaat tttcagattt accttcattc 4080
tgttttact gatgtctttt gcaagccttt gatTTTTTTT tttttgttac agtttagtaa 4140
tttatattca ccagtcactt catatgtctt gaacatctgt atctgtaaac atgaatcacc 4200
gtgtgtgtac ttacagggt aggatttcag tttgtcaga gtattaccac acagcaacag 4260
caacatacag aagatatgtt cactcagata agactgcct aaacaacat tttgtcactc 4320
agttatttaa ctgtgtttag ctcatTTTaa tcaaaatgtg tactttaatc taaaatgttt 4380

taataatctg tatttcttat aattttaaca ctatgagctg cctgtataag aaatcaagta 4440
accagaatgc acctataaat tatggagcat tgtagatttt accacatcaa ttcatagcag 4500
taactttaag agggcattgt gcaatagtta gttgttttct tggtcagcta ttttaaaggc 4560
tgctttaact tgtttgtttg tctttgtata taactacttc taatctaadc actagagtta 4620
ttatatctctg ttatgtttga ccagaattat atgacaagaa ctggtgacag tttagtgcct 4680
ctgcccattg tccatgattt aactaattg tgagcagtct tcttatgtgt cagctcatta 4740
tttttgaaac atttgccttt aggtgttct ttgaggtatc aatgaagtga ttgaatttca 4800
ataccttaat tcagtgcaca taataactaat gtaacagcag atgaaaattg ataaaaccca 4860
aaagagagtc atctaaattt gtagttccta tttctgtggg ttgcctggc catggttgga 4920
gagggaatgg tgtttgatgg taaacacagg gtgtttgggg atcaaggagc ctagattctc 4980
tccttgatc tgctactaac ttgtgcgtg acctgaacac gtcactttac ctctctgtgc 5040
ctcagttttc ccatgcatga aaaataaaat aaaataaaac ggg 5083

<210> 7

<211> 946

<212> DNA

<213> 人(homo sapiens)

<400> 7

gcggcggcgg cggctggagg aggagagcgg cggcggcggg agcagcgaag ggggcggcag 60
ggatcctcca ggctgccggc tgggaaggcg tgggcgaccc ggtgtgtggc gcgcccagag 120
ccccgcgttt cagccctagg gaaggaagcc agttgaggga agttctccat gaatgtacgt 180
cacaatgatg atgaccgacc aaatccctct ggaactgcc aattgtctga acggagaggt 240
agccatgatg cccacttgg tgaatggaga tgcagctcag caggttattc tcgttcaagt 300
taatccaggt gagactttca caataagagc agaggatgga aacttcagt gcattcaaga 360
tgaagtgggt aagagagcct gcgattgaag attttttcat ctcagctttt tcccccttac 420
cttgttctct ctcattgttc atgatctgtg tcatagatat ttcttcatta cgagcacttc 480
gcggtgtggc ttttcaatgt ctgaagtgga ttaagtggcc cacagtcagt tctgtgactt 540
gagtttcaaa agtaaaatta ccatcaacaa tgtgattcaa tttattttc tatactagct 600
aaaagcaagg aactatatta ttaacaatct tggctttact gtagtttaag gcaggtgatg 660
atgatgctta ttagtccacc tgaagagtc cttccaggtt ttggaagct ttattcctgc 720
ttattacctt gcccttgaga agtccttcat ggaaagtgga aacttggtg tgacttcttt 780
tccccatata ctagttgaaa gggacagctt atatgtatgt tagactgtcc aaaagtgttt 840
gtagaacctc attttaaaaa atcaactgta ttgtactttt taaaaaatgg gatcttaaac 900
tctttattaa aaataataaa tggaaatgtg ttaagcaaaa acatta 946

<210> 8

<211> 365316

<212> DNA

<213> 食蟹猴(macaca fascicularis)

<220>

<221> 混杂特征

<222> (1850) .. (3956)

<223> n 是 a, c, g, 或 t

<220>

<221> 混杂特征

<222> (302979) .. (303046)

<223> n 是 a, c, g, 或 t

<220>

<221> 混杂特征

<222> (358595) .. (358695)

<223> n 是 a, c, g, 或 t

<400> 8

```

gcggcgggcg cgggcgggcg tggaggagga ggagagcggc ggcgggcgga gcagcaaggg 60
ggcgtcagga atccttttggg ctgccggctg ggaaggcggtg ggcgacccgg tgtgtggtgc 120
gcccggagcc ccgcgtttca gccctaggga aggtaaggcg tgcaggagcc gggaactgga 180
ggagacccgg accccacgcg caatcgccgg gtccgggtgca ctggaaagcc ccggcctgac 240
gccgagtccg ccaaagtgcg tccctgtccc gggagcgccc tgggcttccc ggcaaaaact 300
tggcgccgga gtgctggggc gccccgcgct cgcctgggca ccccggaac acgggacccg 360
ggagggggcg gccccgcct ttctggggtc gggttccccg cctgtgctgc ctgcctcagg 420
gtttgcagga gtgaaagaaa cgggtagatt cctcttaaaa aaaaaaattg gggcagtggc 480
tcgcggcctc cccccacccc cagccttccc agcagatttt gtccgaggaa tccgctcccc 540
ctcccgaat ctccgcggca ggaacgctgc ccaggagggg gagggcgggc ggcgaggccg 600
aggaatcttc gacgtgtcac tttctgaggc tgtagatttc catatggtgg aggaaagagg 660
gcgggtgtgc gaagtggggc tggaagttag ggccgcctct ccgcgccggc gggggcagtc 720
gggggcctcg aaccggggga tgctctcggg gaggggtccc agcccgcgcc ggcctggctc 780
ccccgcccc ggctgggcct ctccgggaca ctccccgccc cgctgctggc cacctccgag 840
cgcgccacgt cctccctccc cgtcctgccc cccgggctcc ccccgggctg ggggcggtaa 900
ccggcgggcc cgggcggact tggcgagcct ggcggtgga agctcgggcg ggggagcggg 960
gcgcggcggg aaggagcggg cgacccggtg tgtgggccag cggagctccg gtcagtccgt 1020
caccgagagg ggcgctcgg ccgggggtgg ggcgggcggg cggaatctgc tcccagaggc 1080
ggccaggaga ggccgcgagg accgtctggt gcccgcggtt gggctggggc cggcaggcgt 1140
gggaaggggc tgtcactctc ggcagaaagt ggggcctcgg gctgtgcccc cgaactttcc 1200
cagaggtccg ggtcctggcg tcccgtggga gccagaggac ccggacccgc cgtctcggga 1260
gactgggctg cgccgcccgg cggcgctttt ggcggggagg cttccaggag tgcgcggtcg 1320
gagttggagc ttttggaaat tcagctccca ccctgccatc ccagacgaag ggaagcaatg 1380
gcattttatt cagacattgc cgtttgcaga cttccttaaa agttataact ttttattttc 1440
ttttctctc aactcagcat tttcttttaa caaaatttag aatttgccg caatgggtca 1500
acgctggggc caaaaatcca caggtttatc tctccatccc tgctggtttc tagtccccct 1560
ccccctctc cctcccaggc ttaatcatat tttggaacgg gtgaggtctt ttgttgggtg 1620
ggcacctcct gattgcttgt ctgtttattt tttaatgtgc aactaatttg atttgaattt 1680

```

cctccagttt	ccaggccttc	ctagggaaag	ctaagggaga	gggaatatgc	ttttttaa	1740
cgttttcttt	ctttctcctt	ctctctcctt	ccttccttct	ccctccctcc	ctccctccct	1800
cccttccttc	cttccttcct	tccttccttc	cttccttcct	tccttccttn	nnnnnnnnnn	1860
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1920
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1980
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2040
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2100
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2160
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2220
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2280
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2340
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2400
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2460
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2520
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2580
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2640
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2700
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2760
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2820
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2880
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	2940
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3000
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3060
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3480
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3600
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3660
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3720
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3780
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3840
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	3900
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnncttc	3960
tttttttttt	ttttttaa	aaatgtggca	ggaggtgggg	cattgagaat	ggggaggcac	4020

```

ggtggttgtg ggcaaagagt cagaaggagc agacagaccc ggaagaaaag gaatctgctc 4080
tggaataaca cttttttttt gaggcttcag gccttgggca aaattgcttc gctctgtaat 4140
gatttctgct gccggagttg ctccctccacc cctaagttaa agctgtgacc ctaggtgcct 4200
gggcaacgcc ccacagtgga tagcagccgg gagcgctggg tttgtgcctt ttgtgggggc 4260
ccttgggtcc ccctcattgg aggctgactc tgaaatttac tggatcagta aatttcctgg 4320
ctccctggga gcagctgtta acgaggataa agtccttggg catgtttctg gccctgcgaa 4380
aggacctcac ccatgaaggt acaattctca ctttgtttag ataccagagg ggcaccaca 4440
ggctgactga gaatgaggcg tagttgatta aaaaaaaaa aatcagtcac taaaaaattg 4500
tttttaaaact cacgtgcttt taaagtgttg tggtttaaat gactttaaga taaaaaaaa 4560
ttcatctgta aagatagtgt tcatttaaaa gatgttaaaa ctgcaggatc tcatcatgaa 4620
ataggaggtt gtagcttcta attacagtat acacaatttc agaaagatat tccggtaatc 4680
ttttaagaca gactttataa atagcgaca tcagacgatg ggttatattg gagagccagt 4740
cttctggggg ttcttgaaga atgcttggga tctgtgagga agctctaggc tcttggagcc 4800
taggtaacag ttactcagt aggagtttgt gctccttttg ctcaataactt tatttaacct 4860
ggtagcattt gattgatagg ttcattagaa gtaactaga agaatttccc acacttgta 4920
gtttggaaaa tgaggccccg gaagggaaa tgacttgtcg agggcacca ttatagacga 4980
aagttaata caggattgtg ttaatagctc ctttctgggg tatctgatgt gtactaagca 5040
ctaattcctg tgcttttata cattatctca ttaaaattcg aatagtcttt cgatttaggt 5100
tgtgttatgc acactttaca aataagggca ttgagattta cagaaattaa gtaacttgca 5160
taagatcacg tagctaccaa cgggtgcatc caatggaatt ttcttacgtg ttggaaatgg 5220
ttctgtctgt gctgtccagt ttagcagcca caaggccat ataactgtct ttgaaatgta 5280
actagtggac tgagaaacaa cagttaatt attttttttg gaatggagtc tcgctctgtc 5340
gcctaggcta gagtgagtgc agtggcgcaa tctcggtcga ctgccacctc tgcctggcga 5400
gttgacatgg attctcgctc tgtgtcccag gctgcagtgc agtggcgcca tctcggtcaa 5460
ctgcagcctc cgctccccg gttcaagcga ttctcctgcc tcagcctccc gagtagctgg 5520
gattacaggc gcctgccacc atgcccggct aatttttata ttttttagca gagacgggtt 5580
ttcacctgtg tagcctggcc ggtcatgaac tctgacttc aggtgatcca cccgcctcgg 5640
gctcccagag tgctggaatt acaggcgtga gccaccgcac ccggcctaag tttattttac 5700
ttgtaatttc cacttggtgc tagtggttac catactggag agcaaagtgt agaacttttt 5760
gactcccaaa tctttcacat gtagcttggt catattgtct tttattttac tttgagacag 5820
agtctccttc tgttaccag gctggagtgc agtggcatga tcatggctca ctgtagcctc 5880
cacttcccag gctgaagtga tcctctcacc ttagcctctc cagtagctgg gactacaggt 5940
gtgcacgcta ccatgccagg atatttatta ttattattat tattattttt tttttttgta 6000
gagacaggtc tactgtgtt gtccaggtg catactgtct ttcagatctc ttagttcatt 6060
tttctttctt ctatgatatc agaagttaca ttcagcctt aatggaact taaagaccga 6120
gttagctata gctcaacttt gctttcctat gtagagtgga taaaatatgc atattatttg 6180
ttaactattt ggttttaaaa acaatgctta catgtcatag ttaaagctgg tgggaagcca 6240
ggcgcggtgg ctacgcctg taatcccagc actttgggag gccgaggcgg gcgcatcaca 6300
aggtcaggag atcgagacca cggtgaaacc ccgtttctac taaaataca aaaaattagc 6360

```

cgggcgcggt ggcgggcgcc ttagtccca gctactcagg aggctgaggc aggagaatgg 6420
cgtgaacccg ggaggtggag cttgcagtga gctgagattg cgccactgca ctccagcctg 6480
ggcgacagag cgagactctg tctcaaaaaa aaaaaaaaaa aaaaaaagc tgggtgggaaa 6540
aactttaaat gacatgttct tttttgtttt aatataggaa ttgtacatag gaattgctga 6600
aaaagtagtc agagcttggt gggtatttta gtgtaataaa agagtacaaa taggaaacaa 6660
tatgaaaagt cagtaataga aagttgaaaa aatgatcct ctcataccca tgttcatccg 6720
ttcattggac agttcttttc agatgacttc ataagtatca gtaaaccatt attcactttt 6780
ccttatgtag ctgcagaagt aatctgaaga atcaaaatta ttcttttact atcagagtat 6840
aaaaatcaaa tatcaaacac attggattca tccatgaatt gggaagaata tgtgtaagat 6900
taaaacagta agaaagatct gtttgatgca gatgatcaaa tacttttctg attagtggat 6960
ttaatttaaa ttcatggaat ttttagagttt catttgctaa aaggaatttc aacaactttc 7020
tgattttgta tggaatgggt aatattccaa ctcatgttaa agtaagcatt cttttatcta 7080
gattggattc tatctataca tatcctataa cccaatacct tttttttttg gtgcactacc 7140
ctcaggaaaa ggcaaatat aatgtaatct ctttttatta ggatttttaa gaggcaactg 7200
ccaggttcag tataagtata tctgaatcta ctgtatcttc catagttata gtactgtcca 7260
gggataattg cagttcataa tctttagaca tatcctgaag gacctatgtc tgtaaattat 7320
cttaaaattg ttctaagtta ttttagtggt atgtgaatta cattgcttcc agctctttga 7380
aaattgttaa ttcaactgca ggtaaggcgt cagttactga gactgttcag ataactgaaa 7440
catcctgttc ataccattc ctgaccattg ggaccactgt actattttca aggataagat 7500
accactgtac tattttcagg ataagaacca tgttataaat aggattatag tgccttagtg 7560
agtgtgacaa atataggaaa catgatttaa ccatgacat atggtttgat ttgtaggaca 7620
tccccaaagt cttatacaaa atgacaaatt tactataatt ttaaggaata aagatgttta 7680
aatgatggac aaagattgag ggccacatct gagcatcagt ttgaaatcag aatatcttct 7740
ctgccaaagg ataactttac tttctagctg ggtccttgat aagcttttga atctctctta 7800
gtctgggttt cctcatttta atataaggag gaaagatcta actcatacct tttcaaatgg 7860
ttgtcacaag ggattaatga gtcagtgtat tgaaaagtgt ttggcaaagc cttatacaaa 7920
ccccatagtt cattatattc caaagtttaa aactgagctg gtcctatggg atttctttgc 7980
acattttcag agacctccaa attgtgcttg gacagttgga aaaatgattt atttttctct 8040
ttgtgatcag taaataaggt ccaagcttta gatgttgat tttattttca cccactcct 8100
aatggaatag gtgatttggt acctctccaa agttgtactg tacgtaagtt gtcccatatc 8160
tgtgtttttg ggaagttggt ctctagctgg gctagtgttg ctgaagtggg caggccaggc 8220
ttgattcagg gctgtttttg aggtgggggg gggagaagtg cagtctctta gaggaacttt 8280
cagtactgaa tgatagagtc ataaggtttt actccttgta tgttatctta gcctattact 8340
tgagctttca gcaattacag ctaagaatgg aaaagaatca ttttttcagt gtaggggaat 8400
ctttgcaacc tacctgcctt tccactttag aaatcacaat tgccttttct tcatgttaat 8460
gaggttaatc cattaagtgg gatttttatg tggttaagaca ttattttcaa gtaaattaat 8520
tctcactctt aaagctgttg agaattcact taggtggttg aggagaagct ttgtacttta 8580
gtttctgagt gcctttatat atgtattttc ctttaaaata tatagtatgg ttatggcatt 8640
atgtgtttta aagagggaga gaatgcttga attattgttg ctagataggg gcaggtagac 8700

aagcacaggc ccaactggaa ggacgacttg atggtacttg agcactttgc aaggtatatc 8760
cagtgaagagg ccagacccta gtaacaagct cacctggagg ggagtttggt catggtgcag 8820
gtttaatgtc aaggaccagt tcttggaac agaaggtatg tcgggtgcca attgaagatc 8880
aggggacaga aatgttttta aaaccaccaa gtataaatca cataagatcg atagacagtc 8940
gtgatcagcc atctacatac agatgaggat gttgtcagtt ttgaaaatat tcgattcttg 9000
aatttttctt tgtttctccc cggttaagat atgcaagttt agcgttctgt cagtgttgga 9060
tcagaatttc tgatgccctt ggcaatactc agtgtcagtt tagacattgc cttctaattt 9120
ttttttcttt tcctttttta agatacagca tttcactgct gctggagtgc agtggctcta 9180
tcatagtcct ctatggcttc gaactcctgg gctcaagtga tccttccacc tcagcctccc 9240
cagtatggct atagctagga ctataggttc acgccacat gcctggctaa tatttttttt 9300
tattttttata gagacagggt ctcaatttgt ggctcaggct ggtctctaac ttctggcttg 9360
aagcagtacc cctgcttcag cttccaaag tgtaggatt ataggataa gccaccttgc 9420
ccggccctgt tttgttttta taatatcatt aaaatactc atcagcttca aataaccatt 9480
ttgtgggggtg gtgggggatt tttcagaaat ggtgttgagt cacagtgtta tttgaggttc 9540
tagtaagtat caaagtgtgt cttgtgttaa atgattcttt ttgagcttaa aatgtaattt 9600
catttcagtt acttgtttat tgactcagaa tgcatatttt gagatctaga ccaggttctt 9660
tgtaaatgga atattctact gtgttctgat gtttttgaa tcttgtagat agaacagtat 9720
ctaccaccaa actcctaagg ctggatgggt gttaagtcca attctttgct accttctgaa 9780
atttgagaaa tactaaaact ggagcacctt caggctgtgt tagacttta gccttctaaa 9840
ttatattaga atttaaggat acatctttgt tttaccctg gaaagagtag taaagatttt 9900
cataaaggcc aactagtcac aaaaacttac ttaaatgatc ttaactcaca attatgaaaa 9960
gttttctgtt gaaataattg tctagaaagt gatctttata catgaacaaa ggtaggatgt 10020
tttagaaata attgaagatt ctaagatccc aggaaatata atggtttaatt tattttttta 10080
gggatttaag attccccata gcctatgaaa gaggggtctc tattaaaaat aactccattg 10140
ttctagatgt aactaattag ggatttgcaa ttatccaggc aaggctagga taaagtttg 10200
ctgcctattc tatatgaaaa ggttttactg taaatatcaa gtttaaata atcttttagag 10260
gaatatattac ctaattaaaa gaacaaacca cttttaagc acctgggaa aatcaattt 10320
acttaaaagc agtgtaaaag tgcagaatgc attcactgat gctggactgc tgggtgtctt 10380
ttcatagaga tacagaagcc cctggaaagt cagtgttctc tgtggattgc catgaaataa 10440
atgttgattg actcaatgct atcatgtgaa ctacaaacag tttaccagca atgggtagaa 10500
ctatattatt tgcttgcaaa atatatcaca acaataagca cagtatctgc ctccgccacc 10560
ccaccccaact ccaactctacc aatagactgc aactatgcct atttattgggt tttggtgttt 10620
ttctagtac atttgttttg ctacttgta acttcttttg tcacgtgtaa gcatttgatg 10680
gcagattgggt gagagcagggt gttaaaagt taagaacatc attattgctt ttagctcatt 10740
tcttctgcct tcgtgttttg gcaggattgt ggagagtcct gagtttagta tttagataag 10800
ctaaaattac atgtcctcct cctctacttt tactaaagca agattctcct gggcagctta 10860
gttccaggta ctgtatgaac ttgccagtaa caagagtaag tttcttttaa aagatttctg 10920
gatattttat gtttcatact cagttactca tatgcgacgt tttctagtat gtgactactt 10980
aggggtcaga tttgaccagt tttacagtac aagttgtacg tataggatac ttaatgtatt 11040

tctaggacat tatgcttcat tttctcttaa tatttttaaag gttttaaaaa acccattcta 11100
taccttctat atcttttact gtttaaataca ttcaatggga aagaaaataa taaaagtctt 11160
tagatgctgt ttctgatttt tcgatcatgg tttttttaat ctcaagaaaa ataattctga 11220
ttaagaaata gaggtaaaca ttattctgaa gtagtgaatt agagaacact taaatatatt 11280
gagctggaat ccttgtgtat tgcttttggg aatgttaaata gatacagcta ctgtggaaaa 11340
cagttttgta gttcataaat atttacacat agaaatacta tgtgattcag caattccatt 11400
cctattcctg tacgcaaaaag aaagcaggga ctcagggtact taaaagccag tgtttatagc 11460
agcattattc acaataactta aaaggtagaa atgatccatg tctatcaaca gatgaataaa 11520
caaaaatatga tattatatat tggaatatta tggtagctg gaatgttatt cagctgtaaa 11580
aaggcaattc taatacatgc cataacatga atgaatcttg aaaacattat gctaggtgaa 11640
ataagccaga cacaaaaaatt taagtattgt atatatctac tggcatgaga tgactaggat 11700
gggtaaattc atcgagacaa aaagtagaat agagattacc agggcttggg ggaagggaaa 11760
atggagagat agtgtttcat gggtttagaa tttctgtttg ggatgataaa aaaatgttct 11820
ggaaatgaac agtggcgatg gttgtacaac attatgaatg tatgtaatgc cactaagttg 11880
aatacagaaa atggtaaatt ttttgttatg tatactctat gacaattaaa aaatgccaaa 11940
gtaaataattg aagatgtatc ctacacagtc tccatatgcc tgtttactcc ctttgggtcta 12000
cttcaggcag gtatataggt agttattttt tcctcatctc tctgttgagcag tgtaaagga 12060
gatttcccta ggccattttt tggagatcag agagtttctt tattttatta tctgacttaa 12120
atttaagagg aaaatgttta aaagtagatc tctggagggg aaaaaagggc attttaatat 12180
tgagatgaat caggaggttt attaatattt gcagaccatg taagcacatg aagataatct 12240
atcctgaata gcacagcgag tcatttagaa atccaggagt aggtgtacaa tcggacctgt 12300
cacattttct aacctttaa cattgttttt ttttgagacg gaatttcgct cttgttgtcc 12360
agtgtggagt gcaatgggtg gaacttggct caccctgacc tctgcctccc gggttcaagt 12420
gattctcctg cctcagcctc atgagtagct gagattacag gcatgcacca ccacccccgg 12480
ctaattttgt atttttagta gagatggggt ttctccatgt tggtcagggt ggtctcgaac 12540
tcccagacctc aggtggtctg cttgcctcta cctcccaaag tgctgggatt ataggcatga 12600
ggcaccgcgc ccggcctaac ctttaaacad tttattcatt cttgacatca ttagtactgt 12660
ggaaaaactt tgatttctgt ttaagagaaa tggctaaagt catctcttta ctcatgttg 12720
aaatgcatta ggtgttagaa ttcttttagt ctttagactg taaaaccaa ttacaaaagg 12780
gatagaatgg aagaaaccac atatatattt ttttattcct ctgaacttgt ctctagcatc 12840
taatgattgc atagtaggtt ctgctcctc tgttttttct tgtgaggtat ttgatgttga 12900
gtgtagctgg atcacattta ccaaaagatg ggcaagattt tcatttaatg ttgggatacc 12960
aaagcctaaa cgtcagatga aaagtacgta tactcaaaat gtcagataaa aattctaattg 13020
gaaagattta aattcaaatg caagtaagtt ctttaaggaa attacatacc attggctacc 13080
acaaaatgtt taccattcat tccggaactc ctggaaaaca gtgtcagatt acaagagtgt 13140
gatagtaatg tgtccgtgca ttctctgtgg gtatatattt tttttctttt tttttttttt 13200
gagatgggtg ctactgtgt caccaggtt ggagtgcagt ggcatgatct cggctcactg 13260
aaacctccat ctccgggtt catgtgattc tcttgctca gcctttggat cagctggggg 13320
cacgtgccac catgcctggc taatttttgt atttttagta gagacaggat ttcattcatgt 13380

tggccaggct ggtctccaac tcccgacctc aggtgatcca ccagccttag ccgccccaaag 13440
tgctgggatt acaggcgtga gctaccacgc ccggcctctg tgggtatctt ttcttttgtg 13500
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtatagtgt gtatatatag tgtatatact 13560
ctttatatag tgtgtgtata tatattgctg tgtatataaa tggcttgata cagctccact 13620
caatgagctt ttcataccat agctatcact tttgtggcct actaatttct ctggcagtag 13680
ggctcattact atatcaaaaag gtattgagag tcatggctctc ctcatatccg ggagcgatat 13740
gaagaattac tacattgctt tagaatgctc ttaaattgatt ttgggctatt caaaagaaaa 13800
tgatctccct ttttttgttt tttgtttttt tttttttgca tatecttggt atgttccaga 13860
gccgtcattt tagataactt attttctttt ctttttttctc ttttttgaga cggagtttcg 13920
ctcttggtgc ccaggctgga gtgcaatggc gcgatctcgg ctccaccgaa cctccgcttc 13980
ctggtttcaa gccattctcc tgccttagcc tctgagtag ctgggattac aggcattgcgc 14040
caccatacct ggctaatttt gtaatttttt ttagtagaga cggggtttct cctaacttaa 14100
ccattttctt aaatttcttc tagcacttta tctgtacttt tcagaagact tgactttttc 14160
atcgttgccct aatagtctcc ttgtctccct tatttgtgag tagggggatg atttctgatt 14220
taacttgggg tcttttcacg gtggatacac agtaaagtgt catttgatgg ctgcgtggct 14280
ggatccccag tttgaatgta ccatttaaac ttagtgcctt tcaataagaa tgatacagt 14340
gactttgggg actcaagggg aaagggttggg aagagggtga gaggtaaaag actacaaatt 14400
ggtttcagtg tatactgccc aggtgatagg tgcatcaaag tctcataaat caccgccaaa 14460
gaacctactc tctttggaac atggcctata tttggcattt ttgtgtttcc atgatgttct 14520
tgagtttttt cctccaagta gggaactaat aaatgtttta tcaaacaat gaagatgaaa 14580
ggtatgagtc acctgtagtg caaagctagc tttttattca ttgctatttt aaagaaatga 14640
atgttcttca gagaatacat gacttttttc atgtctctat tagattgtga attgatttgg 14700
aaaattctga taaaaagccg tatttctgtt ccatgaaaat atgggccctc cattacatgc 14760
gttttgttta ttggagtcag ttcaaattat gtttaaggga ttatttttta aaataatgta 14820
acttttcaga ggtttgtggt agttttaaat gatcctttta aaaaataatc tttgtctttt 14880
ttcttttttc ttttcttttc tttttttttt ttttttgaga cagggtctgg ctctgctgcc 14940
caggctggag tgcagtgggt cgatctctgc ttactgcagc ctccacctcc tgggctcaag 15000
tgatccttct acctcagcct ccggcaagggt gtcagctaa tttttttttt ttttttgggt 15060
agagatgggg tcttgccatg ttaccaggc tgggtgtgga gtcctgggct caagcgatcc 15120
gcccgccttg gcgtcccaac gtgctgggat tacaggcatg agccacgcct ggccttaaat 15180
gatcctttta taagtgaat tctagaaagg acatattaag ggacagaaac cctctcctcc 15240
cccaaattgt ccttgccgag ctgttgagg ctcagctgaa agagttgatt ctggccaagt 15300
gttggttagt gctaaactaa gccatggaga aagggtcaaa gagcatgcct tggaaagaac 15360
ttgaggagaa tgacctcagc tatttgcagg gggagttaaa gactgttaag agaagaatct 15420
cctgggacat tatagggtg tgtgttttga gagggcggtg cctgtggggc tcttgttctt 15480
tagatctggg gtgggatctg gaaatcttta ttaagtgttt caggtgaatt atatgatcag 15540
acaagtttgg ggaactcgga gttggggagt tggccctctt ggtattctgt ccttttaagg 15600
ttttcaatct aatggctgga aagaggtgag aatagtgcct agattaaagg attccagtta 15660
ggagataggg caaaattgaa ggttttaatc atcatattcc ttggagtaaa atgatagcca 15720

gctattggca gttttatata gaaatgagga cacttttgtg cactgtactt ccaaaccctc 15780
 tgaccacaag gcagatgtaa aatgcagtaa tagtggccaa caattttcca gcactcacta 15840
 cttgccaggc actttcatgt aaatacgtat tccatccata tgtatattct gtgtgtgtgt 15900
 gtatacatct atccatttat atacacactt tcattaaaaa taattctgga agatactctg 15960
 tttttctgta ggtgtttcca gtgtccacaa cagaagctgg tacatattga gtgcccccat 16020
 aagtgttcat tgagtgaatc aaagatgaga aggcatactc gaaaacatta aaacactttc 16080
 ctagggtccc ttagagtgat ttaaaacctt ttttcagctg tatctcatgg cttctcagta 16140
 gttcagggttc atgatcttat ttgtatctct agacttggca cagtgtctgt gttcccaggc 16200
 ggctgaatac gaaggctaaa tattagctga atgccttcta cgtgttcaac cggctctgtt 16260
 tctagaaaaac taaaatctag gctgggtgtg gtggctcaca cctgtaatcc cagtactttg 16320
 ggaggccgag gtgggtggat aacctgaggt caggagttag agacgcacct aaccaacatg 16380
 gtgaaacccg tctctactaa aaatacaaaa aattagccgg gcgcggttgt gggcgctgt 16440
 agtcccagct actcgggagg ctgaggcagg agaatggcgt gaacccggga ggcgagctt 16500
 gcagtgagcc gagatcgcgc cactgcactc cagcctgggc gacagagcga gactccgtct 16560
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattttct tttgaaacaa taatattctg 16620
 gacattttcc aagggaaga ttttcctaga ttgttctctg tagtagcaac ttaagcttag 16680
 aatgaaagaa accagagaat aaaagtgtac ttcatagaaa gtaatgtata agaaacgcaa 16740
 tagagtgaat gggaaaaatc tgaggcagtt ggttaaacga tagtgaagtt ttaccttatt 16800
 cggacactct aagtgaagtt ttaccttatt cggacactct aaacactcta tgaaagggag 16860
 tccttttact cactggtaca acagtctgt tcatccccag tagctttcat ttaagtttat 16920
 aagaataaga tgctattcct ataatttgca cctgggaaag caaatcctt tatttctaata 16980
 actgtttttc tccttttaag gttaatgctg tttggtggtt taggttgtac ctaaggcagc 17040
 cacaggaggagg ggatgagcaa tggactagag ggtgtctatc tctgagaact cagaaagcag 17100
 ctcttcagct taattaaagg tggcctcagg attcagagga gccttgtgct ttcccagacg 17160
 gcccgggcta aacctgggta gctggcaacc ctaaatgcgt cctttgttag aaatcatgta 17220
 gggctcgact ccatcttttag aaagtgagtt cactgaaggt gagttaagga caaggctctg 17280
 aagagcggcc tgatttgctt ctttccttgt gtttgtggag tgggtgtggac aaagagacta 17340
 agtgaagatg cagcccccca aggtgtgtt gcctaaaaac cattcctggc ttcttcacag 17400
 gaatattcct tgttgtctag aaggagctat gtgcttctct ggagattgtt tccacagaat 17460
 ggtgaggact gttagaacca ctttcttctt tctctctgt ctcaggaggg aggctgtaag 17520
 tgctaaaatg ccccggaacg ggggcgtggg ggtgggcagc acctccagag aagtggctct 17580
 taatgctggc tgcccacctg accctctct ctacagtagg aggcaggga gcctttgcct 17640
 ccttccagct ttcaggactt gctgtggtgg gtctcatga tgcagatcac catagcactg 17700
 aatttatcc taagagtata tagtttctta aatatcaata ttatacctca agatgtaaag 17760
 agaacagttt taagcatcta tcaaaggagg aatagattgt aatttttagga tttgagtgtt 17820
 ttatttcctt atatttcttt aaaattgctt ggactctctt ctctctaacc tcacacactt 17880
 tcaccactat caccaaaatt tgctttgtat ttatactcat ttttaaagaa attactataa 17940
 aatcagtaat ttggagtctt ttaggaagtt catcttaaaa aaacgccct tttttcttt 18000
 taaagcaagg tgggaggaga agaaatggat accaattttt aaggtttata ttttatttca 18060

```

ggctttgttt agcaatacat atcttaatgt actatacaat ttcctcacta atgaagaaac 18120
ataattatatt ccagttttat ttgtttttgg acctatttgc tatgtgatta ttgtcctgta 18180
gctttaatta gatcttattg acacctgtgg caatctcaat aatttgaaaa catagctttt 18240
tagcttttac catttgctta ttgtattcaa tttaaacagg gaaacagtgt cacttcctgt 18300
ttatgtttcg ctttgcagtt ctcttaaatt agttcagtgt cctcgggagt tcattcaaac 18360
ctatgaggac atactagttg acaaaaaaag aacagaggat tcaaataaat gtctttaata 18420
gattatttta gcttcatttc atttagtgtg attttgggtc caaagtgttt gccattaacg 18480
ttctaattgc atgtttgtct tccttgtttt cgtgaggagc aggggcagta ggagtgaata 18540
ggggagaaca ggcatgact ggggaaggat gtggcactga tgaaggtagc tgagcttggt 18600
cccagtatgt ttcatgtggg atggcaggtt ttctaaattc tagtttcctc tgggtcattg 18660
gtaagtccaa tagagggacg attctagcct gatgtcagat gtcttgctta gcagactaat 18720
gaaggacttt ttttttaaaa aaaatatatt tttacacag attggtgtat ttgtatatct 18780
tcagtaagtt tcagttttag ccaagaaata atctttcata acgtttttca tgagaaagca 18840
tagaatgatt ttctagaaag tttaatggca agatgtatta gatgaaaggg aaactttttt 18900
tttttttttt gagacggagt ctgcctctgt cgccctggca ggagtgcagt ggccgcatct 18960
cagctcactg caagctccgc ctcccgggtt tacgccattc gaaaaggaaa cttttttaag 19020
gagaccatgc ttcttgggta ttcttgagcc cttgtctgta gataatagct ggttaaacag 19080
ttttcataat tggaggggat atgggaaact actcacttaa cttggagttg atatttttgg 19140
agttaatat ttggtgctct ggaaacatct gagtttggga ctgtactgtg cacatctctc 19200
actggttaaa ttgcccagcc tctcagtgtc ttcttaggac tctcagtgtt ttatgctcag 19260
tctctctgtg tcttgttacg actgtttggc tcaacatagt gttttgaatt agcgattagt 19320
aagtggtagc tgctgctgtt ttattatatt attgctttat tctgtgacta cagacagatt 19380
taattgttgg atgtatttct taatgggata attatttaaa aacattccca gttactttaa 19440
aagcatatgt gaatattagc catcagtttt gtcttgacca tgcctttggc tccttgggtg 19500
tcctgtttca tgagacagct ttccagctca tccttaatgt catactcgag ccgtttatct 19560
tagtgaggta gtgtggacct aaaatgaaat aacatatatc aaaagcacct gtgggggaaa 19620
gcgcatctga atgccaagca gtacttagtt attgcaagtg ctacttctac caatattttt 19680
cttcctttct gcccctttaa agagagggtg tcccttttta atagatatat gacagctctg 19740
cttcctttct taagtctaag atcaaaggaa cgttgtaata aaggggagtc actccctccc 19800
attccttctc tgtctttgtg gatgttgttc tgttttttaa gagagatcag gtcttgacat 19860
tagtgatgac agctgtgggg ctcccaagcc ctgcctttca tctcttggtc accactgcag 19920
acagtgttct tcactctctg catgtgtaaa gacaccactg tgggggaacc gtgccttgca 19980
ggtaagtac gtaaagtatt tctagagatc ctagccactc gttgttgttt ggatgcacct 20040
ttctttgaaa taacatagaa tgtttggcag agatgtcgat caatagaata gtttctctgc 20100
tttagaggta cttaaaccct accagcttct tgtaaattgg aagtctagct ccaaaaaagt 20160
aaaagtgggt gggggaagaa cgaaactttt acaggcaggt tttttctaga cataaacaca 20220
gttgaatgga aaggataata gggattgaag cctgtcttgc tctatgagag tgaacgagct 20280
aatgttagac tttaatgctg aagaaaaata acatctacct tttatttttt attttttaaa 20340
cgaggcagtc agtgcagtct aactgatgaa aattaaaggt caatttcttc tgtgtccac 20400

```

ctcagtgcat gccttgggcc atgttaataa tgacaatccc attatttcct tgcagtaggc 20460
aggaaatgct gtctacaccc attagatttg tttgagtggc ccctggctgg aaatgaagaa 20520
aatttaattt tctaatttgt agggaggaaa aaaaagcata cagtgtctaca tagaggttga 20580
ttcttgggct ggaaggagct gtcattttta aaaacttgaa attctgaata ttattgggac 20640
atttggccct aatccacatt gaaatcatgt atggacttac gtgcaagtga ggtgtctagg 20700
aaacctttta aaatattgtc agaattggca caattgtgga cgttttaacc acatgtttcc 20760
aaactgccta gttgctcaca tgtcccactg gctgctggaa acttgctggg aggagggctt 20820
tgtcagagct ttctctcaga atattagttt tgcttttcag aagcaacatt catgttgaag 20880
aaaatctgta tattcattag ggtaatcgat tactttgtgg tttcaataac aacaagaaaa 20940
aaattatgag tgttacagag gaaaaaaatg tgaacctgtc cttgtacatt ctaatcatac 21000
tgccttgcag agttacattc cctaattctta gggctgactt ggtttctgct acttttatgt 21060
cctttaagaa tgagatcett aattgtcttt cttttttttt tttttgtttg tagcaagttg 21120
atgtccctct tacatttttc cttttttgat aagccaaaga tttttattgc tattttgate 21180
ccttatttgg tttattggga tgttctatta cagatcctca gttggtatat aattcattct 21240
gagatactca atatcatact ttcccatgaa atacacaatg agaagaggac cttagttga 21300
aaggacttgc ttgaaatcag aggagtagcc aatactacaa gaggcagaca ttcagtcttt 21360
gtgtctagag gaggcagagt aaatcatctt attgtaatgg atctgtagtt tccatcaaac 21420
agaacctctc atttttagcat cataacttcc ggtcatatat ttgttttgta ttgactgtac 21480
atatagagct tcttcgttgc ttcttgaaat gatataattg aaaaacaagg agtttctacc 21540
atcttcatag gaatatagca gtgaaccaag aaagttttat gaacattttc ttttctctgt 21600
gtcttaattc ccaaaacctt tagcagtttg cctagagcag tgaccatttt gcctctgaca 21660
ttttgtttct ggttttcatc aaaaccaaca tcttcataa tgtttatttt ccttatttac 21720
ttgtcactat aaatgctcac aggaagcagc aaaacatgga attaactttt ttaataagt 21780
tagtactagt gtaacttata tgtgtgtttt ttaaaaatac attttgatga taacatgtaa 21840
cataatacat atttagggga gcattttaaa aatattttcc aaatttacet tttgcttaaa 21900
agaggggggt ttctagtggc ctctttgata ttaatagtaa gaagtcctgt gatccataga 21960
ccttccccat gggtttttgg ataactctca gattagtctt cctcaggact cctgacacta 22020
attgttctcc atggcatgtg ggaatttgaa gcgtgtatat aaaagagtta aaagactgaa 22080
aaatttctct tgatactcag agagcttttg gaagtcaaaa ttttcatctg aaaaattgtt 22140
ttcttgattg agaatttagg tttgaaagt actatggatt attaactggc cacctggcct 22200
ctgttataga ttatctgac tatttatattg aaatttatct agtatactta aatttggcaa 22260
gaaatcaggg cacaaataca agttaggcgt attgtttatt tttctaagtc aataacacaa 22320
ttcattttgc catggaaaag taatcatgga aaacattaat acctgataga ctatataaac 22380
ttgcttaact tttagcataa tgatattttt ccaggatgct gaccgggtgg ttttatgtaa 22440
gcatgtttat ctatagtcca gtgaattaaa acttttaggc aaataaagg catgtatcac 22500
ttattcctaa ggcagttcct tttgaatgat tcagttattg agaactgtca ttttgaaagg 22560
tttcaaacca attagcatc tttagatcta aatcttcag ccttcagctt tagggaatac 22620
atatttggat ttgcaagaat gtgaagattt agccaggtag tcacttccta ttagctgtga 22680
gaggcttttg gactcaattg actggtgctt gttaaatacc tgtttttttt tttttttttt 22740

tttttttttt tggagaattt gtttccctcc tgaagagaga gccctcatag tcagtgggac 22800
ccgttgacaa ttctcaaata ctatctttta ggattctcat gactcagttt tgtggtgaac 22860
ttccgaataa gtaatgaaag atggtagatt ttaatttaaa agtatagatt cttttagctg 22920
tcagtcctgt tgctagggtg gggagtggta gtggtgtgct ccttcaggtg agagtgtagt 22980
ggtggtgggc agagggttaag gcacgtttat gaggttggccc cacaccaggc ttttctctgt 23040
cttccctagg ccatgagact gattacttac tgtggtgaga gaaaacccta aaggcccact 23100
ccacacttct catttgccct ttagaagacc tagaagattg taggaacaga tggattgcat 23160
gaactggtac ctgaagtta gggagccatc agttcaatca gaagttgtat ttatttgagt 23220
gtagctgtaa agatgtggtg agagaagaag caggagatg tccaatgtcc aattcctctt 23280
tgtttgactt tcccactaaa atctaaattc cttgaaggca gagaccgact ctttctctt 23340
ctcttatata tagtgactgg caaacagact ggtcagcaag tgtttattca acgaatgatt 23400
taatgatgga gcaggacatg ttttgacact gagatgcat atgtttgaac cagctgaaaa 23460
cgtatgtttg attttaattt taaagccatg ttctaattat aattgttatt attggaggca 23520
tatggaactt tcaatcaaga ggaaaaactg agatacttca aattatgtga agatagaaag 23580
atttttcttg tttagtcaag aattattgca ttgcaggtta cagaaacca ctttaagctag 23640
tttaaacaat aaaggtttga ggaaaaggaa ggcagtgttt ctatacctcc tgagctcctg 23700
gaaccagccc tgggaaatca ttggaagccc aggttgcat tcttcttttc tttggtcttc 23760
cttcttgat aattctcttt ttgtagagcc catcctatat gaatgatgga tgcttattct 23820
aaattcatga agtaatacca atttttctt ttaaaatggc ctggtctgca cattactttt 23880
tttttttttt tctttcttg agatgaagtc tcgctctgtg gcccaggctg gagtgcagtg 23940
gcccgatctt ggctcactgc aagctctgcc tcccggatc acaccattct actgcctcag 24000
cctcccagat agctgggatt acaggcgcct gccaccatgc ctggctaatt tttttgattt 24060
ttagtagaga cagggtttca ccgtgttaac caggatggtc ttgacctgac gtcgtgatcc 24120
gcccgccttg gcctctcaa gtgctgggat tacaggcgtg agccactgca actggcctac 24180
tttttaatat taaattgaag ttatggatga tagatatatt ctttgaaagt agttttgaag 24240
cagattcctt tcccaatgtg tcatgtacaa tctgtggggg aggaaggtta tataaagtaa 24300
gaataactgc tattcaacaa aatagtata ttctatattt tcatgtctct tttgtttctt 24360
tctttaaaat gaacttcagt gagacatggc cagattgatt tcttccctta aatcatctca 24420
gaaactgtac ccagaccatt aattgctttg ttcagcggac aggaaatggg tatatttgta 24480
caagttacac aatcttaact aagtcggggc aaagaaccaa agagatctct gatctttttt 24540
tccagcatta acctttcagt tccacaaact aatgcatgat gcataaacca ggttactagg 24600
ggacaactac cgaaaaccat aaacttattt atctgaatga ctttctttta gggatactaa 24660
taaaagaagt tacatgaggt aatcatgctg gtgctgaggt taagtttgtg cagtttcact 24720
tctttcttta atagtttttt atacatgcaa taaaggatat gtccggaagc tgatcagtgc 24780
cagcattacc atgaagtgt cggtccecat tcttctctc cttaccctc agccccctg 24840
caggctatat atgtaaatat attcttttcc ttttctagag ttgggaattt gcctcctttc 24900
ttctgceca tgtctgttac tggtccttag taccceaatt tctgctactt ttctcttttt 24960
tttttctttt cttgagatgg agtcttactc catcaccag gctggagtgc agtggcatga 25020
tcttggtca ctgcaacctc cgcctcccag gttcaagcga ttctgctgcc tcagcctccc 25080

gagtagctgg gacgacaggt gtgtgctacc acacccggtt aatTTTTTgg atTTTTtagta 25140
gagatgggggt ttcactgtgt tagccaggct gctcttgaac tcttgacccc gtggctctgcc 25200
catcttggcc tcccaaagtg ctaggattac aggtgtcagc caccacggcc acttttctcc 25260
ttcttgaaaag tgggattttc tctttatcac tgtttgatta ttgtgtaagt attatgattg 25320
gcattttgca atttgggcag agctgatttt atatatgata tttctaagtc cttttttttt 25380
ttgactctgc caaactctta agtcactatc catccatcct cttctcattt tgacttctat 25440
tagttatttc ctgaagccca tattactgag aaaaagttaa tcttaagtaa gtgaataact 25500
taggtctaaa tgagaggaga atgaagaatt aagtgaatgt aggcagagtc agaaaaaat 25560
agtgtctctc tttaaagcat tactttttgg tgacaccttt gaaggtagtg aaattgctgt 25620
atgatctaata gctacaaaac cacatcttgc tctcatagat ttttaagattt ctgttttgaa 25680
tgatccattg ctgtcctttg tttacacgta tcttttctcc ctatcttctt tgttaaatac 25740
atTTTTgtt atatactttt gaagcaagtc ttgatttttc tgtattttcc ccatttttct 25800
tcaaatgttc cacagtcccc taaaataaca tagcattctt tgtcttttcc tacagtctat 25860
tctttgctgt ttacatcatc cccaccccc accactgaaa atgccttcag aaagtcctta 25920
ccttttcttg tacattgtcc ttctgttcag attcttgcatt tgctgatact ctccccgtct 25980
accattctc ctccaacag ttttctttga tagtgatctc tgccttagaa tttccactgt 26040
acctgttaaa ctctttgaga agggtaatc tgtcaacgtt tacttctctt ccccttctag 26100
cccaaagac ccaggacaga gtgtcctcct catgcattcc tgtgacaagg aatctgcgct 26160
gaggtttctg ctgtttctct taccaggatt ctgaattgtc tgtgactgtc tgatatgatt 26220
gctgatctct tccccgttct cagataggac acaaggattc catttgaggt gggctcagga 26280
cattcgatg ccattatttt agtaatgatt acatgatgtt ttgagggcaa cctgaaagaa 26340
cagtctctaa gagaagagct gggtaaaatc agagtaggac gatctctaata gccttttcta 26400
gctctcttac tctgattttg tgaatttatc ctcagggata gtttttcacc agaaggatga 26460
gaccctgctg tggctctgaat gtgtctctct cccctcacca aattttattt atgtgttgaa 26520
atcctaaacc ccaaggatg ggtgttaaga ggtggggtct ttggaaggca gttacatctt 26580
gagtggatcc ctcatgaatg ggattcatgc ccgtataaaa taagcttaat ggccagggtg 26640
ggtggtgcaa acctatagtt ccagctatat ggaaggctgc agcagtgaga agattgcttg 26700
aggccaggag tttgagactg cagtgagtga ataaccctg cactccagcc tggacaacat 26760
agaagactct ttctcttaaa atagatggct agattagata gatagcctaa gggagcctga 26820
ttgccccctc caccatgtga ggacacagca agaaggcacc atctgtgaac caggaaagga 26880
gccctcacca gacatctgat ttgttgatgc cttgattttg gacttaccaa ccccgagaac 26940
tataagaaat gaatttctgt tgtttgtaaa ttaccaggc taaggatttt tgttaaagca 27000
gaccagatgg actaagtcag ccccataatg acctgtttta tatttttatt tataatttat 27060
ctgctgctta attttgtgat tagtggccag ctactattta ctcatctttt attcatctgt 27120
aaaactcctg ttaactgtc tttgtaagaa acagtttgct aacagatgag ttttcagggt 27180
gttcagtttt aaaatgtttt acttaaaagg ataagacagc tccccaatgc aaagagtgc 27240
ttcagagata actttcattt ctttgaaatg taggaagtcc atagccattg ctggctgcta 27300
tctttctact caatatgtc cagggaaga ttatcaaatt ttagcctctg agctttcaag 27360
tggcactcat tatcaatggt gtattacatg aaactggttt ttgggctctt caaatttata 27420


```

tttttggcaa aggtgttggg agatttgatt tcattcatca tcactgtagt acctggcaca 27480
tagtaggctc tccatttggg gtgttggatg aaagaagaaa gtgattctgt tagtcagtga 27540
ggtttaaaaa gaagtgtcca ccaactttat gggtcaccat tgatcttgag ttcaactctg 27600
ttgccctgta tataatgtgac cccatgttta ttgcaacctt ataggcatct caggcactgc 27660
tggaacaga ctcttaaaat ttctggtagg ggccacatgc ggtggctcac gcctgtaatc 27720
tcagcacttt gggaggctga ggcggacgga tcatgaggtc aggagttcga gaccagcctg 27780
accaacatgg tgaaaccccc tctctattaa aaatacaaaa aattagccgg gcgtgggtggc 27840
acatgcttgt agtccccgct actcaggagg ctgaggcagg agaattgctt gaacccggga 27900
ggcagagggt gcagtgagcc aggatcacgc cactgcactc cagcctgggc gacagagcta 27960
gactctgtct caaaaagaaaa aaaaagtttt ggtagactcc tatgtgccat ttctggagaa 28020
ctgaaatagt agtggacatc cttaggattc attttagtgt agatatggct gtttctagt 28080
aaacttgaag tcctacttcc tgttgttgaa atagggtaaa aggatcacac tcgaaaaaat 28140
gccgccttgt gcaaaaagtga caggatcgct gttcagtttg gaatattgga aagtgggcag 28200
atattatttg aagcactttg tttttactac atgtgtaaaa ctccaggag cattgaatag 28260
gatatgaggt gctccctttg gctgtgcatt agcaacgtgg cagttactga tctgtcattt 28320
actttgaaaa ggaattacaa agttttggcc tcatgcctgg agtagctcca gatggtcaga 28380
aaagattttt gtactgaagt cagaaagtat attgcagtga tagaattggg cttgtcatgt 28440
ttatattaga acactggctt cccactttat ttctctgcaa aatttttctt tctttctttt 28500
ttcccagaga gtgaggggag gaaattgttt ctttagagtt acgagtctaa tatttggaat 28560
actgttggtc ttggtgatag tgatgtagag gtatgatatg tggttaatgt agttactttg 28620
tcaacctaaq taccgagata cttagtattt acaaaggatg catgaagact tggaatgtag 28680
agatacacca agaccattgt agctgatgta gaaatgcagg taagaagctt gatttgggta 28740
gcatttgctt gtctgataac ctggctgtta gccacaact gttatttagt agctttccaa 28800
acttcatctg ttctgccttc ccatgattct gtagttgcta ggggtaacag tgacgtttgg 28860
gtgttttagt tgggtgggag gtgggcctgg ggagatgagc agcgaggcgg taatgatact 28920
aacgccaagt ttgcccattc tgggcattag tgcatctttt aaattccact atgaccttgt 28980
gtaccttcgt atcaaccctg gaaggggaat gatgtgattc ctattttcct gatgagaaaa 29040
ctgagactta gggaggtaat atctgaccaa ggcaatatct aggtaactcc cttctgcagc 29100
ctgtttacat atacttttgg ggaaaattat tacagtttcc tgtcctttca ggacagaggt 29160
ggctacaggc ttcaggaaat aaagctcatt ttctctggg aaactcagga cttgtctgag 29220
ttgagccatt tagtaaagct tggtcacaag gctcagatta agacctggat ctacgtgctg 29280
ctgttcccag actgttttct agttactctt gtggttactg agtaacttgg gagttagaag 29340
aacattaaca aagttttgtg ttttcgaaga aatgctaca catggagaag tgacattaag 29400
ttgcatactt cagaaaggaa tttttatctg ttttgagatt ctggtatata aattgaaaat 29460
aatttaaaga aactaatatt gattattata cttttaattg gtggcacgag tatgtgaaca 29520
taggtagctt ttttgaagca cttttattga aaggtataaa aatttttgtt gctgttggtc 29580
agtagctgac atgcagtatt ctcttattgt ggatttaggg gtcttgacc agctcacct 29640
tttctcagat tgcagctctt cttcttgct tgacgtagag tggtttctaa cttggttctt 29700
tttctctat agatctaagt cctggtccac agtctctac tgtcaccag tcttccatga 29760

```

```

gctgtcagaa tcctcctcta ggcttttatt attctgcttc ctaattttgt cctttttaa 29820
ttccactggt tagatattat tcaggcagca gtggtaattt tctatatata atgtgggtgct 29880
atagtttata agttcttttg gggttgtgtc ttaaacagca agagtggcct gattgatgtg 29940
ctttttgaag tcttactacc tttttgatgg gtaggatgaa agtgggtgtga agatgagttt 30000
gtctggcctg ctgtaaactt gatctgtaag gcttttccgt gttcactaag gcaccagagt 30060
cggactctcc tttttttctc gtttgatgtt actttattac acttatgaat gaaataactaa 30120
tgctattatt ttataaaaaga tcataaaaata aaagtacacg ttcttcgtgt tttatatgtt 30180
tctttaaaaa gataattacc atgagtcata gagctacaat gacatcaaga gtttcctata 30240
tgaaacgaag tctctgggtg gtttttggtg cagtctttgc acctggatca gtggagtga 30300
atgtcatcac acttgaaaaa aaaattactt aacagaccta ttaagaatct ttagaagttt 30360
gcattttgtc agggatttgt ggtccaagag ttagtactac agaacaggct cttttctaga 30420
cctagggaaa ccagtttgtt tctctgtctac tgacgtgcaa gacttactat aggtgtttcc 30480
ttctcctgtc tgttttgaag agacttctc tgggaattaa tggtagaata cttgtgactc 30540
ctgagagcag agaatgttcc agggcatcat catcttctcc ctctgtgctg tacatggcct 30600
ccctttgtct ctctgcctg gcatacctcc ccagtcctcc tccacctcag tcacagggtg 30660
actgccttgc tttctgtcta cttttcccaa ctcttcaggc tctcatcctg gtggatccca 30720
ttctgtagcc cttctgtctc ttttcagggg cttctatttg gtcttataca cttgtgtcat 30780
ttagttaccc acctattccc tcagtggact ccattcttg gcttcctgca gagggtcgt 30840
aagttcacct ttatatcccc agggtcagag ctgatgttct gccgagtga tggggaagca 30900
ccagaaagaa cagaagctaa tgatggactg gcttgacat ggctcccaca ctttcaatac 30960
tcattcctct gtttcctcag aaattttgct tgaattaatc ttgtagctct cttctgaac 31020
tgctgagcaa atatttggac actttttgag gagccctctt tttttgtttt ttttttttg 31080
agatgggggtc tctctgtctc tcccaggctg gactgcagtg gcacaatctc gtctcactgc 31140
agcctccgcc tcctgggttc aagcgattct cctgcctcag cctcctgagt agctgggatt 31200
ataggcttat gccaccacgt ccggctaatt ttttgattt ttggaagaga tggggttttg 31260
ccatgttggc taggctggtc tcgaactcct gacctcagat gatccacctg cctcggcctc 31320
ccaaagtgtc gtaattacag gcatgagcca ctgtaccagg ccagaggagc cctcattgat 31380
agcaagaata aaaacatttt gtcaggaaat ttaataataa tcataagccc agattgagcg 31440
cttgctatgt gccaaacact gttctaggtg ctttacgtgc atttcttcat ttaatcttca 31500
cagtgtcctg aattaggtgc tttatttaat tatttccact tgccagtga gaagcagaag 31560
tagtaagagg gtaagcaact tgctgaagt taaaagctag tcagtcgggg acttaggggt 31620
tgtagccagg cagttgtggt cttcggggag gggacataac atttttcccc tcctgaaact 31680
ccatattcct ttgtaaatct tttctgtgtt acatattttc ttgtccctag tttagttatt 31740
taggtcagct gcttgtgctt ctactgcaaa atgttctgtt caatttctt gacctggtaa 31800
ctgcctgggt aggttcgcca cggtgccag tcaatttagc aggtcaccgg agtacctgtg 31860
ggagggtgag gatgtggaat cctcaggaga gggctctgct gttggctgct gtctccactt 31920
aaagtggaca gttttgaatg tcttaataaa atcaaatcag atgttcttga gtattcattc 31980
attttatttt cctaagcaaa atgttttgta aaatgctgct tttatgtggc tagagcaaat 32040
aaatatctct attaacactt ttaggcaaag gttgagatct ttgagtgggt tttaaaaatt 32100

```

tatTTTTatt ttttatttat tttaagttct gggatacatg cacagaacgt gcgggtttgt 32160
tacataggtg gaatgagtgg gttttttaag tcgtcattgc gtgccttttag tctcactggt 32220
ttgccttagt ttctttactc tctagactgc tgtgctgact tttcatagct ctgacttttc 32280
agtccagtga ctttttgatg ctctggccag gtggctcttg tttcagcttc actgggaggg 32340
agttgtggaa tctggctgac aattccattt agtcttcttg aatttaattg gcctcttccc 32400
ctttccgatt ccaagtaggg gaatagcctg aagccatttt cgaggggcta ctaaagcagt 32460
ttacaagctg atgctttata tttaaatacc acagtattta caaaactgtt tctattatgt 32520
atattgtcta ttgtagcatt ctcacagtga ccctgtgggtg tgaacacagt gactattatc 32580
ccagtttaca catgagaaaa cctagtctga gagtgtgtgc ctttccttac ttagggcatt 32640
gtggcaaata aagggagaag tcaagctact gcttccattc cagtctctga attccacgtc 32700
ccctgcccc ttttctttcc agggcatgta tgatgtctca agcttgagta acctctaatt 32760
gaaaatctgt aggtacttat cttctgcact tttgaaatga tatgaacgtg aaatatatttc 32820
aacatgctaa catttttcca ggccattatt agggatttaa atcatcccg taccataact 32880
gcaatttttag atgttctgtt gctaaactgg gatctgtcaa tagaatgcaa tcttttgaaa 32940
gtcttaaaaa atagggatca tcttgactc aagaattgtg atatcaaaat aagacccttg 33000
actatttctg gagtgtgcta gccaatctac ctgggtggtt tctttctctg gaattggtga 33060
agaaagagat aaacaagatc caaaaccagg ccgcatgaaa gaatcaacac tcttctggac 33120
atacagttgt ttgggataat tgtaaactct actgtctatg gtgactgaca aggggagaag 33180
agcagaatcc tagcactccg gctactgact gtgaaactgg tgtatctttg ctgtgacata 33240
tttagcattt accttttact ttaaaccaaa aacacctttt acacttttct tagttgagct 33300
ttttaaaaac attgtaattt atgaaaacaa tttgaacata gacgaaagta gagaatagta 33360
gtagattctc ctggacttat tactcagcct tgacaatcat cagctcgtgc cagtcttggt 33420
tcatctttac gccttttcat tctctgctcc ttgctgtaat attctgaagc aaatctcagg 33480
catattattt catccctcaa tatttcagta tttttttcag ataagttctt tcagaaatat 33540
attttcttct aatttaaaac aaaaagtttt tgggaaaaat agaggcattt ttgctgcaaa 33600
aatgggtcag gattatgcag tttctaacta atcggcattt ttcaagttga ttggtttttg 33660
ctgacaaaat tttttttcat atatgtggaa aaaattattc acagtaacaa atgcatgttt 33720
tgatagtgtc aaaaattagt ctatttttca gacttaatta ttcaattaaa aataagacac 33780
ttcataaact ttaaaactat tgtgtagaaa cgtactgttc ttcagtttta tgtgttttca 33840
atcattatat ttcccagcta tttcaaacag gctaaatata gtatacctta agcttactca 33900
atcattagtt tagactcaac taatttggaa ttttcattga gttggatata actttaatag 33960
caggtttcca ttcaagcaaa gtatttgcata attgctgggtg attattaagg cgaagtctta 34020
aggttttata gaataagtaa atggttttat gggctcatgt atcttttaggt atatatatat 34080
ttatgcactt taatgctatg aatttagcct gacttggaat aactaacctg gtttatatgt 34140
gtttatagtc aattaattga ttcattaaaa tttttatttt gttaaaaata ttgaaataaa 34200
atcagagtta atttttattc attttcggtg aagagtctta cgaaaggtgg tcagacttag 34260
aagtcagatt gtggctaata aatcttagtt tttctctcaa atgtctcaag acagcatgga 34320
ggcttggtgt cacatacact caaaggaaca aaatacttac tagctaagaa agggatatgca 34380
attttttttag ggctttgaag catattgtag gccttagtaa taataacagc gaatatttac 34440

```

atagcgagca tgtccatata aagtcattta ctcattacca tcgtcctatg aggataggtg 34500
ttgtatttat ccttgtttta tagatagaaa ctgagacatg gagagtgaag taactggctc 34560
cagtcgccagt gctaagtggc cgagccaggg tcagaattgt agcagttgaa ttctagagtc 34620
ctggccctta acaactctgc tagagtgcct cctttgggtg ataacgtgaa atactagtcg 34680
ttcctatgtt ggaaactcat ccttcgtttt cttcaatgaa aatatggcat tttatagcag 34740
tgctgtccaa tagaattgtt gaaattatgg aaatacctgt gttatctagt atgtgtatgc 34800
ccagtagtca cacgtggctg ttgagcactc aaatgtggct agtgtgactg agaaacagaa 34860
ttcaaggttt tatttaattt tcagtaattt aaatttaaat agtcacatgt agctagtggc 34920
tctagtattg gacagcgagg ctatagagtt tgagagacct aggagaattt gtagtttgca 34980
tttcatgggg taatgataac atcttggcat ttctgggcta tcagtatctt gacctcgta 35040
gggttggtcaa tgaatgggtt tatcattaaa tagtaataat gttaataaag gtgaaatttt 35100
tacaaagtgg ataatcgaat gtttaaaact ataatgccta acaacacaat cctgtttgat 35160
caccaacatg ggaaattgac agtctaccgc atctggaggc atcctcttgt taattccttc 35220
ctagctaagt aaaaactgct atgacattgc cgtatgattt tcagccttgt agacgagttc 35280
ttgctttgta aagagtccag cttcttggtc aagcttaaca ttaggagtgg tgataagata 35340
gtaaaatgac ttggccaggc gcggtggctc atgcctgtaa tctcagcact ttgggaggct 35400
gaggcgggag gatcacgagg tcaggagatc gagaccatcc tggctaacac gatgaaaccc 35460
tgtctctact aaaaataaaa aaaaaaaaaat aaccgggcgt ggtggcaagt gcctgtggctc 35520
ccagctactg gggaggctga ggcaggagaa tggcgtgaac ctgggaggcg gagcttgagg 35580
tgagccgaga tagcgccact gcactccagc ctgggcgaca gagcgaatcg aggcgccgctc 35640
tcaacaaaca aacaaacaaa caaacaaaaa agatagtaaa atggactttg tgggcaaaaa 35700
gcagccatta agaagcgagt gtttagctat ttatctttct cttacagcct catgttgaca 35760
gagctcccat atatgaaaat acatcaagaa aactcagtgg taatgaagct aggtttcatt 35820
tcaaatgaaa ctgagaccac ataaactgtg aactgatgc ctcttataat gtgctttcgt 35880
ctaagccttt atgaagcact gaagtctaatt tattttaatt ttttctttat gttgatgaaa 35940
agggccggag tggttgttcc caccagccat ggtggggctc tgaaatggaa gcaagcaaag 36000
cctccagatg gtggcaggta ttggaccata gccaccctgc agacataatt aaacatgtct 36060
gctgtcctct catttagcag ttctaaaact gacattttct ttgtttatgg gattgaactg 36120
ttattgttag catttatgtg aagggttgc agtactatag ccaggtgctg tttctcagct 36180
actgtgttaa aactgggcc tggaaactctg ctttgaaagg tttggagaga aggtgcctcc 36240
caacattgag aatgagcatg gtggtggggc gtttccagca ggtcctgttt gccactttc 36300
cattggtaat tctcaagtgt agcagttcga atgtagagac agagtgtgaa agtggattgg 36360
gattttaaga caaaaaatat tgaagagcag gtgaaacata cttcattcct ggctgcagta 36420
ccagcttccg tttgaagtta ggtaaatcat ttagttgctg tggactttga ctttcttcac 36480
ttggcaaaac aacctttggg aggggaaacc aaatatcact agaaagtgat ttgacttctt 36540
gaaaacaaaa ttacggttta tttgtgaaat gaaaggtagt tgtgatgagt gagttcccat 36600
tttctgtatc tgcctcattg ccaataaact ttccatttac acttttaatg atgattcaaa 36660
gagcaggtea gcattatgta aaggcatttt tgatgaatta gtctcatgca ggtccctata 36720
tggtatattc ttagttaaac tgttttcatt gaagctttag aactgactct accttgtaat 36780

```

gggtgcatga ttctgtagca taagtaagtt tactaaccga ctttgcttta tttcctcttc 36840
actgagaaac tctcattatt ttaatgaaag aaaatggaaa cacttttctc ttgtgctttt 36900
tctccccctga tcccttcccc caccacatga cccttaagaa atgttctcct tttggaagcc 36960
aggatcatctg aatttaggag gatgttgagc tgcacttca agaaaggat gcatcacagg 37020
atgaggactg tggaggaaaa ctttctctga gtaagacctt gcaaaacatg gattgaaata 37080
taattgtctg caaatgaatt gacaagtgtt ggacccatt tttccaggca cttgattgaa 37140
aggctgcttc tagcctgagg gaggtcttga tacagttgat gatacactga ggctacgtta 37200
ttgcctgtga ccactgtgag tgccactgag gtgacctct tgtgtgcaag tagctgtggt 37260
tccacaattc cgccgggcta gtattcagac ctaattctct gcttacagat gctgtgaatt 37320
ctgtaactca gaaatgacac ccataatatgt gtgctcaca acatcaaatac agctgggtgca 37380
cagatacata gagcagccat gtatcaagga cttagaatga ctgctgatcc tcgaactctt 37440
ttttaaaaag gtaaaattag cacaaggtta aaaccttaaa gacatcagag tagttctgct 37500
taacagcaac ctgttacttc atgcctttgc atgtcagcaa cttgtcctaa agtcagcgag 37560
atttcttgct tgtaactata gaatcttgtc ttttggtgtg agagcgtgat ttcattggtgg 37620
aggatgttgc agatatcttg gtttgcattt ttatagcatg gggtatactt taagggtgga 37680
aaaaaataag gtaatttaag cctgttttga gacacacaga aaggaagctg tttcataact 37740
atcagtcagtg tgaattttgg caggcccta gcccgtagt ggccacagtc acatgattga 37800
ttaccggttg gggaccaca gttagcttat tgcagaactc catctggcat aattgatgtt 37860
gtcatccagt gtcaaaactat ccactctgtt ctgccaactt cttccaata acaaaacttt 37920
cttgccttgc acgagtgaag gcctgtgtga tcgtgtgttt agaattacag agttttaaac 37980
ataatccaat cacaagtatt tgaacttctt gattttaata catttgtacc tatgttgcca 38040
aaaacctttt tttccttgtc tttgtgtctt ctaaaacatt gaaggaagag gtctttaatg 38100
cttccctaat acttttatca tgtttgaagt cctgagctct ataaataata tagtccttat 38160
tatcttttta tcctgataat ttataaaact gactgtccaa agatatgtat ggtacttgta 38220
gttttatatc aaagaatttt aaatgccaag aaccaggga gccatctaata tctccgttct 38280
agctagtgtc gagacctact ggacaacatc ttgacacttg gtcactggcc tgtgctagag 38340
gcatgatatt ctagtcctgg ttcggcctct gccaccagt ttggtttttag atctcttcat 38400
ttttgtgatt aatgatatga aaaagtggga tcaagaggtc acttaggttt cttcagttt 38460
ttgatttcta tatgaagata cagaaatata cactacatgt caacaacaac aaaaatggaa 38520
atttactgat tccttctaaa agctgaatgc tccttgtcag tggatattga cccttcaact 38580
tttagaagga atcagttaat ttttttttg ttgtaacatg tctcattttt atattgagcc 38640
taaattggca tggacagaga taggtttct ataacactat ttttctacat atttttgagt 38700
ggggcacaca ttgagaaaca tgttttacat tgtagccag taaacacata catacacaac 38760
acacacacac acatttatat acatataact gaatcaaaag tttcacaat cagtacttgc 38820
ctttttcctt tgtgatgcaa ttctattcga ttttatttaa aagaatgcca gtcagtgacc 38880
cactaaattg attatgtgac ccaagaatgg gtctgacct ggagttcaaa aaaacactac 38940
tccatagcaa cctagaacac atttgtttct tctttcacat gataaccctg taaactcaac 39000
tatggttagc ttgtttgcct ttagtcctct tttacaggct taaggtccca gtttctaaag 39060
ctttttcttt tgtgatttga tattttgact catcaccgta ctggtcaatt gttcctggat 39120

acttatgggtt tgtatccctc ttaagctacc agaagaaacg taatctcaaa ataaaattta 39180
actagggcag ggtctttctt ttatatcatt tcctactaat gtcattgtat tacacatttg 39240
ttctacaaat gtttgttctt tatagggtga ctgagcacta ctgtgtgtta gggctatcct 39300
tggtgcttga ggacactgcg gtgagcaaaa caaaaatgtc tgcatttaga gagtgtacat 39360
tgtagagaat tgcactagcc gctaggagta tggcaatgtc aaatgaaata cccaagcgct 39420
cagtcataga gcttcctcgg tagtgctcag ttgcacgtga tcttttaggg caccatgtta 39480
ttgtaggctg tcaggcattt actctcttca ttgtgagttc ctctgcctt tccacttgag 39540
tgcacatctt gccaaaagatg aaatgtcagt ttctgagaaa ggcacctatg tgttgtttcc 39600
tttattattt ttaatttttt taaaaaacag agtggaaatt atagacttaa aatgataaaa 39660
atacagaaat atgaagttaa ttttctgag gttcagactg gttaaaggaa gattgaaagt 39720
ttccattgta tgtgataaag gcatgtgaat tctagtcagg tcacagggca tcaagagggg 39780
tctttaactc tttgggaaca taaagtacac tttttaata aaattataac ttttctgga 39840
gtgattttgt catgggtaaa tttgggcaa ggtaaatgtt tttagagggt gaatgactta 39900
tgtttgtttt atgtaaagta atagggaag agatttgaat gaacaaaata aacaaaagat 39960
agggtctcta tcttcaaagc ttgcatttta gtagaaaac aaaatctgca taatgaaatt 40020
atataaatga gtgatcaaat cacataataa atacaacttg aaaatgatga gaggtaagta 40080
gaattaatca agaaagaata actggaggtc cagcatttga aatagatagg aataaattgg 40140
ttaaaaaaaaa tgtttataat aagttgaatg taatttaagg aatctgaagc actgaaaatc 40200
tgtgtcttagg tgaagttgca gtttatttac cttttaaaaa gtagtctgat ttttttctt 40260
tttgttgttt gaaaatttac aaattaggaa tttgtcatag gagatgtaaa tatatttcga 40320
acatgagaaa actaatgtct agataatgaa agggcatggg aaggaagcct taaacatgac 40380
attattcagt cagaatagga ttgcattgat ccagggtgtg gaaaatcatt atggagtggg 40440
gttttcacac aggcctctc ctttacttta ttctgaacta cataaatatc aattaaagct 40500
ttctagtcca agttagcaga tggcgattta tgtcggactt ataaacaaag cccacaaca 40560
ttactacact taattgatga atgcgctctc cttccctga acaaagattt tggcctccag 40620
tgtggttgtc tgagagaaaa ttaatgaatt cttttctgtg atctcatgta gaaaggctcc 40680
cgttatagaa atatttgact ttttcccc aaaaaagaaa acttgaatac ttttaagttg 40740
cctagtaatt taagttccca aaggtggact ggaatagtat ttggtattac atttacctaa 40800
aaaattatat ttttggtta cagcggaatg atgcctcaa acaaaaaata gtaacaaaa 40860
taaaacacac agaaaagtgg aatgtgttta attattataa ctttaggtag acatccaaat 40920
tagagctcat attttgttat ttttaattac ttgtatttgt tattattttt ttttttgtga 40980
tgtagtctcc ctctgtcatc cagtctagag tataggggt gatctcggct caatgcaacc 41040
tccatcccct gggatcaagc gattctctg cctctgcctt ccaaatagct gggattacag 41100
gtcccgcca ccatggccgg ctaatttttg tacttttagt agagatgggt tttgccatgt 41160
tggccaggct ggttttgaac tcctgacctc aggtgatcca cttgccttg cctcccaaat 41220
tgctgggatt acaggcatga gccactgtgc ccagccagag cttatatattt aaactctttt 41280
tctgtgaatt cttttcctta gacttgttct ttaagtgag atgacactt gtactaatc 41340
ttaaaatgaa cccttcccc aatttgaaat atgtgaaat agctgttttg taatatggac 41400
ctgcaaatag tatcttgtgg tttgggggt gtcgcaatgt caacctccag tggaatgtag 41460

gtcgcctgcat cagaagaagg tagaggagcc agggactgca gaatgtattc ctttcctttt 41520
gtttgaaaat agtaaagtgc atttgtgaaa aaaacctgcc ttgtcttttc atactagctt 41580
ctttgaaatg agcagtaggc tgattggggg tagatattta tatatactga aacattaagg 41640
ttgatgtaga tgagaaaaca gtggtgcttt cgttgagggc aatctgcact aaacactttg 41700
actttaatat taactttctg cccgctgcca cccaggcgctc tttcttgtgc tcattggttt 41760
gagggtgcat tcctcaaata agaggggcaa ttcaggtgaa agttttcaat gttcctgccc 41820
aaggcagcct tctaaaggaa gttctcttgg tgatgacat cacaatgatt ccacgggaat 41880
gtgtttacta cacgatctgt tgatacaggt aataaagaac acgctgatga cttttcccca 41940
cgaaatctct gaggtcggtc ttttagtaac ctttgagata atcatttaat tcacgcctca 42000
tagaaaattat gtgtgcagta gggccttggg agagattgac atttatataa ggtcagtatt 42060
ggttgacctg gtttgatctg gccctagatt tataaatgaa tgaatgatct cccagaatt 42120
aggaagacat gacaacaaaa ttatgaattc atcattactt aagtactgca aaagtcattg 42180
tcttaaaacta tagcatgtta gagttgagac aaggcctcag tatcttctgt cctcggtgg 42240
ttggaggaaa aaaaaataat gtgttttaag tctcaggaac ctgtgtgggc ctcattgctg 42300
ttaaatccag aatgggtctc tccctttctc caaagatgaa gtttggcctt ggggggattc 42360
tgtgttggga gctgcagtac cagatgctcc tgctagttaa atagaagaga tcaggaagaa 42420
caaactggcg agtaaatgg acagatacag acacaaaaga cttcagataa ttgaaagaa 42480
attttgcaat cagggcattt ctgccaccaa agcagaggta tcttgggatt attcttgtgc 42540
tggtgtttgt tgaggctcta cgtagcact ggggatgaa gataattcct gtatagccat 42600
aatatgggca agtcaccagt atcctttaag atgacaaaat tcaagttcta ataaagacag 42660
gatttgggac attttttaaa gagagggtgct ggggtgtggag agggaggaag tctggtttct 42720
gataagtact cctcctcatt ttacaagtct ctgcctgtcg tgagagaagt attattcctg 42780
gaaatgaaaa gcatggaggc agaaaatccg ttgctttaaa aacagatagt ggatttttgc 42840
actgctggcc tagctgttga tctgtcagtc ttggttaactg aaacctgtc tatgaggctg 42900
tgtaacatct cagatgctca gcttcaaata tgagatcaca aacagggtcc taaaacaaaa 42960
agtttgttaa atgcccagtc aagaaaatgg agctacggaa aaacgcaaaa cagaaaaata 43020
aggtttgccct tacaagtgt tcatacttca ttcttagacc tagttgctaa tgacattcag 43080
ttacctgaat tataaaataa aggggtacta cccagtttca ttaattgcct tgtatccagg 43140
gctttgaaag gagattgat atttcattaa ttgatttttg aaattgagtg tggctcctgct 43200
attaaccatg tcttgggagt tcccaccctt gaagttgaag gcatcctctg aagcttagaa 43260
ttttttttct ttttttcttt tttttttttt ttttttttta agagacggag tctcactgtg 43320
tactgaggc tggggtgcgg tggcatgatc ctagctcact gcaaccttga actcctgggc 43380
tcaagtgatc cttctgcctc agcctcccaa gtagctagga ctataagtac gtactacat 43440
gcctggctaa ttaaatTTTT ttttttccct agagacgaag ggtcttgcta tattgccag 43500
gctggtcttg aactcctggt ctcaggcaat tttcctgcct cagcctccca cagtgttggg 43560
attacaggtg tgaggcactg tcccaggccg gaatcttga atttttgact ctagtcttga 43620
agggatggaa cctgcccttc tagtgttgtt tcactttggg ataaagcccc aaggctcaga 43680
gctcacctgt aatctggtgg tggtagactg atgtgtccat cctgggttca aagttgatgt 43740
ttatttagta aaaacctgcc aggcctcaga ggggagttag actgtgaatc tcctctctgt 43800

gtctattaag ggcacctcat gtgtttcatg taaaatcctt gtagggtaga ttctctgttg 43860
gaatgcaact gttagattgt ttcaagggtt ggactcattt tccttatagt aacttactta 43920
ggaattcata caagttaagg gcttcagctg cttacattgt ttccctttgt ttggaaatag 43980
ttaatgcact cttaaaaact gattgaccat cagggtgtca ttctagtcta agattttagt 44040
ttaacagtag atatatagcg attgaaagt gtgatgtatt aactctgttt tccctaagat 44100
tcatctattc agttgacttt tttatcccag tactctcttc gggattgatc ataggtatta 44160
attggcacta gcagtttaca gatgtaagaa ctgagagtcc gattaccttt tggattctcc 44220
cacttagcaa ctacagaaat ttgcttctgt cttactttac ttctctaata atcactgttt 44280
tcttcattaa tcagaaatgt aaccgtgggtg tgggtggcgt ttcttttgtc tcagtagctc 44340
tctgattttt gttctctttg tttttcttta cagagcacia aacttattga catgagtctg 44400
gaattttgaa gtaagggcag tcatgctaata attgtgattt tccatatttg tgctttgcat 44460
gtaaagtgc tttttaactt ttaattttta attattatgg gtacataata gttttatata 44520
aagtgcactc attatgagtt ttacgtttta caggataaaa ccttaagact taatttcata 44580
catacatttc aaaatagggc atcaacttga tagaaaagt ttctttttcc ttaagtcaat 44640
aatatgctga ataaactttt gaatgcagaa aataaaattc tgaacagtat tataaattag 44700
aagatcaaat ggctatgttg gtaaggttag taacagggtg cagatttggt attcacacct 44760
atttgtcact agtcatgtct ttgacagtt attcttcaga gcaattagat tagcgcata 44820
cgctttcggg ttttaagaaat gtgcttcaaa gtgaaaggta gttaatgctt acctaatgac 44880
taaaaagagc tgttatttct ttttaaggaaa ataatttctt cttgttttat attatccggg 44940
cgcaatggct gagtgaaatt aattgttaac ttgaaacaca tttattttct atggatgtga 45000
atattcccag ggtacatttg acactttgat aatacttaat tgtggattag gttcacatt 45060
ctgcgtgata tgttgagatg caagtcaggg gagcctctta cttttataaa agttcaatta 45120
aaagaaactc atcataaaga tggcaggaaa taaggatata gttttggcat ttgaattctt 45180
ttgtgtatat gaattatttt cttcatcact ctcataaatt aatgtggagg tctgaccagt 45240
atataatttt ataaacattt tttcctgtcc ccaactaatg cgaataaact gagctttatt 45300
cctgcctgac ccagtcgttt actttctatg gataaatagt attccttggt attttcaagg 45360
ctgatgtaac aacacagctg ctggatgctt ggcatttctg cttctgggtg aatgctattt 45420
gtgcagattt atctgatcca gatgtgtgac cagcaagcta cttttctaata tataaggaca 45480
gccaaattcc attataagca catcatggga ttatagggcc gggagtcata ctgagaggac 45540
atctagttca ttctccagcc gttcagcagg agcacacttc gtaacctact ccagcactga 45600
acgaagcagc aaagaatgtt ccacacatgt ataggctgaa cgtggaatca ctggaattgt 45660
aactggaaaa agagacaagt ccctctgggtc tggccctctt gctttgtggg taaacagatt 45720
caggcccaga gaagtttgac ttaatgtgga tttttatgac tctttgccta gaacttagtc 45780
ttcttttctc tgaagtcagt gctgagggtg tgcaagggtg gaaaactgga ttggaaatgc 45840
cagtttcaca tccagatgta gctctctact catttagaag taagaggtaa tgaattagt 45900
aaagctagat tccgttgaag tttattaaac atttctgaaa ccagtatgg agcgtgatat 45960
ttcatgtctg tatgtatgtt tgtgtgcttt agtgataaag tacagaagaa actaggcatg 46020
ctgttaggtt tagaatgttt gcaaagtgtg tgtgtaagct taccaagaac aacatctcag 46080
aataaataag tgattattta acttgatttg atgttggtga ctctgggttt tgattttaca 46140

ttacttcaag tgatagttag cctgccacag tttcatggat gttgggagaa gacaaggggt 46200
tcctgtacca cagaaaaaca actgtattac tcctgacata ccaaatagtg taaactgttg 46260
tgcctagaac ttactggcat gcctatgttg gttcatcctt gccccatgt cccatagggg 46320
tgataaggat ggagcgtgca gatggagctg cacacacttt gggtttgctg tgctgctgag 46380
gaacactaaa ctgtagaat ccgctgcttt tatagcatgc agtaaatgaa cttgctcttt 46440
gttccaaggg ggaagatatt acctcatttg tctgttcagg ttgctcactg caaacataac 46500
tttgagaaac ggccttgata caaaatggca ggatatgtag aagcatgaga gacctatgga 46560
ggggatatctc acaatgatca tgtcctgtaa ttacgacaat caaataaaaac acttcactag 46620
caacttcaca gagaatacaa gacatcaggt agttggtagg aagcaaattc ataataaaaa 46680
tggttaagtgc tgaataatta gagtgaagat ggggtggaaa tatgaagaac ttgatttctt 46740
ctgtatattg acatcttctt agacttcagg atgtagtcag attataataa aaaacacaca 46800
ctaaaatcag gaattataaa tcttgtttct acactgttaa atctattgat ctttttgtga 46860
aatgaaagta tagtagccat gtggaccag gcataggttt agttctgttt cttactgca 46920
ttgtgacttt agtttatttt ttgttttaat tatgaaagtt atttatattc ttagtaaaaa 46980
attgtttttc agacaataga gaggtataaa aaagtaagag cctctcctag aggtcatgga 47040
ggttgccaca gttctgtagc ctttgatta gtcaacatca gaatggaagg gaaaaatga 47100
ttttagtggc tacttgttac tttggaagga tcaaagtgt tgggacattt acaagtatg 47160
ctgggctggg tgctgtagct catgtcttta atcccagcag cttgggaggc caaggtggga 47220
agattgcttg aggccaggag tttgagacca ggctgggcaa tgttgcaaaa ccccatctct 47280
acaaaaaagt aaaattagct gggagtgtg gtgcacgctt gtagtcccag ctatttggga 47340
ggcagagggt ggaggatcac ctgagcctgg gaggtcaagg ctgtggtgag ctgtgatggt 47400
gccactgcac tccagcctgg gtgacagtga gaacttgtct caaaaaaaaaa aaaaaaaaaa 47460
aaaaaataca cacacacaca cacacacaca cacacacaca cacacacag tatattctga 47520
atctctggaa agatttatga ggcagtatta tgcttctacc attaaaacag tgttattttc 47580
acttttgttc actcaaatat ttagctaata gttgtcctca acataagttg gggctacata 47640
gatcaggtaa cagtatcttt attttatgga taaggaaatg gagacattca aagtcaattt 47700
gtccagttac atggtttggc catgttcggc ttcttatctc cttagaaaag attttggccc 47760
caaataaaaac tttcataagg taggggacga tgtagttagt gctcctgatt tcaattactc 47820
tgttctgttt tttaaaatac tatgtatcat tttcttgcat actacataat ttacttatat 47880
tcattgtttc tttccctta cgagaatgta aacttaatga gaacaagaat ttttgccttt 47940
ctttttttgt cttgggcact ggtgaagttt cagtttctgg aacagcatat taatccatag 48000
taggtgctcc agctccgtag taaatttggg gatgaaatga atcaacgtgt ggtaaatatg 48060
tggtgctaca aggagatgaa atcatctctt tgatcttaga ttatgttttc aactttgagc 48120
aagtagtggg acatctttgg atgatactgc ttgcctcatt tgatttgatc aatgagattg 48180
aatttgtaaa gttgggcttc aggatatggc ctacagattt tttttgcatt tggttttgta 48240
cagtgtttta aagactttgt ttgcaagcaa catttaagaa ctcagggatt tcatgtaaaa 48300
taagatttct agcttttttg gtttgtttgt tttgtttttt ttcttttagaa actgaaagat 48360
ctggcaacac ggctgcatt cctgcatggg agtgagggtc tcgaactaaa tagcagctca 48420
cttgtaaga aagggcattt gctctctagt ttaccagtcc ccctgactgt ctgttgactc 48480

```

ttgataactga agctggggttg tcagttgctt tttgccatct tttacattct ttaattttta 48540
aatatgaaga aatattcagc catatttttc aaaaggaaat aaaaaaggaa aggttgacca 48600
cttcactcat cgacactcca tggctcttgt taggcaattg aaacttgacg ctccttgatg 48660
tgattatcta agacttctgc ttctttgagg tctagacttt ttatgattac agttatgatt 48720
gctgatggta tgcagaagag aagagatagc aattcaaagg aattaacctc agtgctttga 48780
ctgtggaagt ggtaacatgg aatgtgagtc tggggaaaag tgcttccttt gttgaactat 48840
taatgcataa tggattccga tgttaaaagt gcatggccac attgcttggt tcttagctac 48900
acattggaag ggccctatgg gtgtatatat agtctattcc agagagtttt tatttttctg 48960
tttgtaaagg tggcagaaat tgcagaagat ttaaaaaata ttatttgtaa aaagtgatct 49020
ttcatccagg agaaatgaat gcttgagatt tgttgcttaa gacctaaaca attaagctcg 49080
gggccaggcg tgggtggtca cacctgtacg cccagcactt tgggaggctg aggaggagg 49140
atcacttgag gccagaagtt tgagactggc ctgggcaaca taatgagtga cgtctctaca 49200
ataaattgaa aattagctgg gtatggtggc agacacctgt attcccagct ccctgggagg 49260
ctaaggtagg aggtttgctt gacctcgga ggtagaggct gcagtgagcc atgatcctgc 49320
cactgcactt cagcctggac gacagagcaa gacctggtct ttaaaaaaaaa ataaagtga 49380
aatctctgga ttcttttta tataaagaac aaatggtata tgcttccaag ggcacgttg 49440
aaaattggca atttcaagcc atgtttaatg tgtttaacgt attttgttat tatatggata 49500
aattaaattg tacaattagt cctttagact catgaattgc ctatttgatt atgtgactct 49560
ttatgtaaaa actgggctga gttcttattt aaaggaacta tgtaagtga atgctaataa 49620
catttcttat ttcatataa tctttataaa attgggattt cacataatct cattaggaga 49680
gttgaaattaa gtgtgttaga cagagttatc caaaaggcat tctctagtga acattagatc 49740
ttaaaaattt gtgtgttcag aaacgttcgg tcttggggag attctcagtg tatattacta 49800
aaagtctctt gaagtgtagt gttaaagaat ttctaactct tcagctcaga gtttctcaag 49860
cttgatagaa gttttctaca gaagatgtat tagcatgtag cagagtattt ttcctatgtc 49920
acatacctta gaaattttca cctggataga ttattataaa aacagacacc acatgtagt 49980
agttcctggc ttcatgtggt ttctcgctt tctcacctt taccagagtt tatagttcca 50040
tttctcccag gccactgctg gagatggaag gaagctgcat gctcaaaaca gtgtagattc 50100
caaacagaat gagaaggata attttgagtc atctttcttt tgtttagaaa ataaatatac 50160
cttttttgaa aataattgat ttctatattt taggtaatgt acttctagtt aaggcacata 50220
acttaccttg cctgtattct aaactatcat cttgatggaa gccatctttt tctcctgctg 50280
ttggtctttt agagacctgc tgttattcac atggataata cttgttttct ctgtgagccg 50340
tagtacttgc caggtttggg acttctcaca tagaggctaa tataataggg aaagacagt 50400
ggataattaa cattttggaa ttgataagt aagagtgagt gcatatgtgt gtgggcgtta 50460
aaagagctta taacttggtt agatttcatt tctaaactta ggtggaaaat atgcttagaa 50520
atttgaagtg atttgagaag caagagacct tatcctgcca ttaatcagt gtgtaacctc 50580
tgaaaaataa gggatgaaat agataatctc agaggtgctg ctgattaaaa aacttttttt 50640
tttcaaattt cattgcaaat tttaaactct gatgttgcat ttttaaaact tgtataggtt 50700
gtaacatgct ggaaatgaaa tcaaaccctc actggggaaa aaattaatgc tgatgtaaaa 50760
atatgatttg gaatcttttg tatttgccag gggctataag aatgaaatgg ttctccattt 50820

```

gtgatctttc tgtagcacgt gaaggctgat ggagaatttg agagccctag ctctagatct 50880
ccaagtaatt ggagatctct aaataattag aaatctgcaa gagcatatag tccacattag 50940
caagaaatga gaatgtacca ctttggttca tggatcttga agcttttatc attcatcacc 51000
tcagccattc ggTTTTTtca gagtaagtaa tatacttaga accaggaaat tgcttgccac 51060
atcttggtcc tggaaaagct gacagcctaa aaatgcttat cattcaaggt gtgacctaaa 51120
tgagtgttgt acagctattg taatttttct gtaaagttat gtggctaaac aaggctacttt 51180
ctagggaaaa tttcttcaag taggccttta tttatgactt tcatcccaa ttagcaaaac 51240
tgctgtactg gtaccacaga atttcatatt agaagggaat ttgcaggtag tctagtccaa 51300
cctttttatg ttgcaaataa atgtagactg agaaacctaa cccatgcagc tagcatacgt 51360
aacagaactg aaaccagat ctccagatgg ccaccgagg catctttcct cagtatcatg 51420
tgcgtttcag tcagtgtctc tagtgctaga atgaatccct tgtaaaatgt gttttaaatt 51480
aaatgtaata tccatatatc aaatcacaca aatctgtacc ttcgtaatta tattttgaaa 51540
tgcaattgat ctgctgaata taaatgtttg aaatgttttg tacatagcta ttacatttct 51600
ttaaactgta tttttagga tgtatatttc agtgacaata cacatcctac aaaagagaat 51660
ggtttcataa attaattgat ttaaaagtag gtgccagtgt tacacttttt tataaataaa 51720
aagataaatt ttatgtagtg aaatctaaaa aaaaaaaca aactgcaatt gatcgtttaa 51780
aaactacatt ttaaataaat tctacaaaag gtagccatta tgattgtatg attatttgtg 51840
ttgatggtag tctcctgtgg aatgtgtgat gcttaaaatg attagcttgt gcaaaagcta 51900
taaaaatagt aatagtttta ctcatgtatc taactgtcag actttaaaat ttacaaagaa 51960
tagccaaata atattcaggg ttgtgtttta agtgataagt tagctttcta tgagacaaaa 52020
aaggcattga caagagcact gacttgtcat ggtattgaat ttcacagaat tagttttgga 52080
taaattgggat tttcaatgtc ctgtgagctc tcaaaattca tagtgagcaa ctaataccca 52140
caggacaaag taaaatttag ttcagcacia attgttaatt atttaatttg caaagtaaaa 52200
ttattttaatt tgcaaagtaa aagtaaaaat tagttcatca caaattatta ttattacttt 52260
actaattcct gtttccgaat taaatatttg aatcaagaat gtaggaaaac atcttttaaa 52320
atgtgtgtta taggagtaca atataaaact aggggcaaga tattttacca taggattttc 52380
ttaaacctta gaaaaaacag taagaattca ttaggggtga ggaaatttcc ttagtgaatg 52440
ttggaaacag gataaaatgt ggcacagctg tccgcagagg tttggaggat ttccgtggga 52500
agatcagtac tgagtcctca gttgatcgaa ggtaggggac agcactacac ataccatgcg 52560
caaatcgaat gtaggggtga ttaagccctc aggagtatga agattttaaa ttactgggtg 52620
ggtacaaaag taattgttgt ttttgccatt aatataattt cagtcatagc actatcttaa 52680
tatctctgat agaagcctct tagaacatta aaacaatcaa gattctaata aggctgtctt 52740
gtgaagatca aggacatgga ggtttgaaaa tctcagtgtc gattcattat ttaaaaatct 52800
gttgaatagc tcaattacaa agtcagccat aagtggaaaa ctatatatcc agggctctgca 52860
cagtgccagc tgcataagat accaagtaaa tgtttgaaca actgagggaa tgaattctca 52920
ggtcggccat ctcaactttt tatgacgtta atgacaaata tgatttccac atagataatt 52980
catttgatc agtgttttgg gtgtgatatc tgtcagttgt gatggctgtt atatgagttg 53040
aacagttgtg cttaatccta atatcttaat tgttagatgt tgctttaaaa tttttaaat 53100
tagtcaattc tgaatttcca gatattaaca ttatctctga aatgttgagt gaattagaag 53160

```

tggaagccag agacttttgt ctctccaact tctccaactt cagatgtgcc tcctcttttc 53220
tgttactgtc gttcctcaga aaacttgagc aggtgggtcc tccgtgcttt tttctaacca 53280
gtggatggca aatatgtgac gtgcatctcc cgtctcctta atcccatgac cttgacagcc 53340
atctctaatt atcactgagt gagggctgtg aatctttctc aactctgcac tcgaggcagg 53400
caccaaagtc agctggagtg ggcatatgag aagaaaccta gggctgtgac ataaaacaaa 53460
acaaacaaca aaaaagaaaag gtagggagct ggagaaggac ttgtgcttag gaacacagaa 53520
atagtctctg gtgggaacag gataatccaa gtttcctgcc tctccagagc agtactcttt 53580
atcactttac ttgctcatgg agtgggatag gattgtgaaa atgaactgaa atggtaccct 53640
ttcggttttt tcctagtact tcggatccag ctcaaaaac taaattattc tttaccttgt 53700
gtgatctggg tgctgaagag aatacagatg gagcatctgc aatttgaaaa tccaaaatgc 53760
tccaagatct gaaacttttt gatgacagga tgccacagtg gaaaattcca cacccaacct 53820
catgtgactg gttgcagcca aaactttgtt tcatgtacaa tattatttaa aatactgtat 53880
aaaattatct tcaggttatg tgtataaggg tgtatgtgaa acagaaattt catgtttaga 53940
cttgggtccc atccccaaga tacctgtata tgatacctcg tattatgtat atgcagatat 54000
tctaaaatct agagttcaga tctgaaatct gaaacaccta ggggtcccaag catttcaggt 54060
gaggaatact gaacctatgt aactactttt catcccagta ctttcttcat tgcctatgaa 54120
gagtttggga aataagtaaa acaaggatgg gcttggggaa gtggtggaga gaaggagtag 54180
aatataataa aactattctg aagtacttgg gaaaatattt ttttaagtagt aattgttaca 54240
gatataagta tgtcttatct gttaaataca gcagggagga tttccacctg gcagtgtgt 54300
tgaaagtttt agctgtattt aaatttcttg ttgcaaatgc ttcttttcat acatttaggg 54360
gggccctttt tctccaatta atttaaatta ccaaggtttc gctctatcta tataatttta 54420
aaatgtgaaa agaggcagta catgtggaag aaaaggtagg tattttctct taatttgcag 54480
atatatgaaa aaatatgatt aggaattata gaagtcagaa ttttgaaagt agattgacgg 54540
atgagcgttg tagtatcaag cactttgtag tttcctagtg ttctgaaaag tgtgtgtgta 54600
tatactgtgt gtgtttgtgt atgtgtgtat gcatgcatgt ttgtgtatgt ttgctttgga 54660
gcatcttaat tttagcttta tgaagtaact ttgtcactac agttgctaaa acatataaga 54720
atacatattc ttttaacaga atacatctgt taaatatgct gcaaaaatta tcttcttcaa 54780
aagtggcttt tattttagg aagtacctct tcacatacat tttcatatgg aatttgtatt 54840
tactcatctt gatgagtact cactaaagag aaatgggtcaa aattgtgtag cttctagtaa 54900
tattacagtg ccctgacttt ttactggggg ggggtgtgtgt gtgtgttagg gaggtgagg 54960
ggttggggag tgctctaacg gatggcttta gattgcctca aataagattg taaatttgat 55020
tatgagtcag ttatctgttc atttcatgac catgcacggg gcctttaacc ttaagtttct 55080
ctcaaagct gtcataaagt catcattact gatagaaaaa acaatgcaca tttcaagtgt 55140
ttacgatagt ggttgatagt atcaccttgg agtagaagaa agcaaacctc gtatgtcaaa 55200
cagagcagca cagaatgcca ggtcccatg caaaagctct gtatggatac ctcagcaaac 55260
ctggagatcc aggaagagat tcaagctaaa ggattgactt tttgaggatc ggttaaggag 55320
tgcatcaaat gcctgaggcc ctgtcatttg ctggactcga ccttgtgtta ggtatacatt 55380
ttctgagcct taacaaaaag attcttcttt aagttattta gcttccccac acattaagt 55440
ggggagaaaa ttgctcaata cacattattg tatggatata aaacatggac tgtatggagg 55500

```

aaaggctggt tgccctggagt ctttcttgag tctctctcag agaggctcat gatttcaggt 55560
aagggagaaa gtctagtcgt taccagtc atcatcttcc tttcatgcat gaggatagga 55620
agaccccaag gggtctccta tcctcattgt gagaattggt attgtgaccc atagtaatct 55680
tgatgtagct ttaagtagca agacctagac agaactgtgg gtgttctgga aaagaggaga 55740
gagtagcaag agcaaaagct cagcaacggg ctctgtgctc cccagcatca ggacactggg 55800
cacatgggag gggtgtgtag ggcagagtag gaaatacatt agattttttt gttttgtttt 55860
gtttatacag tgtctcactc tattgcccag gctggagtgct agtggcatga taatggctca 55920
ctgcaacctc tgtctcctgg gctcaagtga ttctcccacc tcagcctcct gagtagctga 55980
gactacaggt gtgcaccacc acacctgact gcttttttat tttttgtaga gatgggtgcct 56040
ttctatgttg tccaggctgg tctcgatcta ctggactcaa gcgatcctcc caccttggcc 56100
tcccaaagtg ctgggattac aggcattgagc caccacgcct ggccagaatc tttttttgag 56160
acaggattgt tgctctgttg cccagggtga agtgcagtggt cataatcata gcttactaca 56220
tccttgaact cctggggtca aatgatctc tcacctgggt atccccacca cacctagcta 56280
atttttaaat attttagaga gagagtctct tgctgtgttg cccaggctgg tctcgaattc 56340
caggcctcag gctgtcctcc ctcttcagcc tcccaaagtg ctgggattac aggcattgagc 56400
cactgcacct ggatggaaat aactgggtat agcctttaag gttcagaaaa gatcaaaggc 56460
agtgttaact ttagtgact caggaatctc ctggagaact tagtgaaaag gcacatcacc 56520
tgctctttct gttcgaaggg aggatatcta ggcctccctt cagagattct ggttttagtag 56580
atctaagtga gaattgaggg atctggattt ttaaacagct ttattgagag atatttcaca 56640
tgtcatacag ctcatgcatt taagggtgaa aatttaattgt ttttagcata ttcatgggtg 56700
tgtgcaacca ccaccactag caaattctag aacatcgga gtgtgcaacc accaccacta 56760
gcaacttcta gaacattttt gtcccttcta aaagaaacct gatagccatt ggcagtcgct 56820
tcccaccgtc aactccagcc ccaagcaacc accagtctac tttctgtctc taaacatttg 56880
cctattctgg acttttcata taaagagaat cgtacattat gtggccttct ctaactggcc 56940
ttttccactt tgcataatat tttcagggt catctatgtt gtagtatgta tcagtatttt 57000
attccttttt aaggaatgta tccattctat gcatccataa aatgggttca tttttgtgtg 57060
tccattcttc tgttggtggt tttctcctt ttgagctgag taatgctgct gtgaatattt 57120
gtgaggaatc tgcgttttta aacaagcacc tcacttgatt ctgttgctga tagttcctgc 57180
acgtatctgg agaaactcta acctgaatgg ttagtggtgt agaatgactc ccctacaatg 57240
ctaagtcctc tgttcccat ctcttatggg tgcttctgct tgaagaatca ctgggtctatg 57300
agcgagtgtg tagtggtcta gtgaaagtga ggttcagaa ctaaattaca tggctctgcat 57360
gtgcaggtta gaggtagacag aaggagatg acaggagacag taggcagggt aaatgggtcc 57420
tgtacttttt cagaatctaa aagtgacttg attattcctg aactagggtg ctgctgctgg 57480
tggtgatgat ggaaagggaag ggtcagaggt aacagacttt atcaaaagaa tactctcttc 57540
agtaatgggtg attttaaaat actcagcaat ttttgttttt cctcgactca gacacagttc 57600
tgtctaattc ccacctatc tattcctatc atcctgttgt tccaaataaa tgtattttta 57660
ccaactgttt gagagaggaa atcctgggat aattagctga aggatacagt gtaataaaaa 57720
aaaataccaa gttttgatat tttgaagcct ctgatctact agggatagat agagtacaag 57780
cctgagttag agctgaactt ctggaagttc tttttcagac ttgggattct gtgatatatt 57840

```

ctgaaactaa aaatagcttc taggagattg acagtcccca ccaccactgc ccattgggtgc 57900
cactgggcct agagtgaagg gcctagaaca gcttacattt ttcctgagag ctatagcaca 57960
gcttttagaa gagagactgt catagccagt gacccatata aggtactcat agagaggggt 58020
tttgtttaat aggattaccc ttgactagat atgcatgata tgtttcacat ttttctgtta 58080
gattatttga cacagatgtg atcagggtgc ccttaagatg ctctttgttc tgtgtactat 58140
ttttcccctc tcctaataca agcatcatta aaaaaatctt ggagcattga taaatgaaaa 58200
gattcttctt tctacctact ttatcaaaat cactatgaac actttgggtg atgttcttct 58260
agactctttt ctttgtggaa aaaaaaaca catataccta gttttgcaga gtatcacagt 58320
gtatacttcc ttgttaacct gttatttccc cctacagtgt gttgtgagca ctttcctatg 58380
ttagcagatt gatttctaca gcatttacag ttggctgcag tcttgtgttg tgtggataaa 58440
atagcttcca acttttcaact atttcagact gtgatgtatg ttttcataca ttgttctaaa 58500
atatcttaag ccacatcttg ccagtctggt tctctgttaa ttttactggt aacaatccaa 58560
cctagatgct cagggttaag tattctgggg caaagtgcc ttgaacttcg ttgctggtac 58620
atacattcat tctgctcatt ggttgggata ggtttatggt tgtgaaatag gtgctacaga 58680
cagttaacat aaaacatcct gtagctctca gaagatagag aatacacct ttaactttca 58740
gaaacttgcg tacatgtaaa cgtagaaata aggaattgca tttttattaa ttcattggaat 58800
ccagacttca taatgggttt aaataattct gtttaaaata tgtgcacaca atctaaaagc 58860
atthttgtcat tgtaacctca tatcatataa aaagaaattg tgcttctgag tggccaatgg 58920
acatacctgt tgtatcatct gtttttctgg tttattccca tctttctgcc agagtccagg 58980
acgtcagagg agaattttgc catcttctct gaagtaaaat gtgatttagg aaccaacttg 59040
cttatttttt aaagtaatga gtattattgt tatgtatcaa aaaaaaatag gcagattgat 59100
tataatctgt agctctctaa ctgtaaattt caaatagaaa agcaagattg agaggaaata 59160
tatcatcatt ttaacagtgg ctatttttga gtagtgagat tatgaacaat taaactttct 59220
tcttgctttt ctgtattttc agatttctag agtgaacatg tattatacgc tataatgcat 59280
aggaatgtgg gaaagaaaat atgggccaat tatttttaaa aggtatggga tgagggcggg 59340
tggtctggaa agaactcata aagataagag tgggtagtta cttttccact gttaaagatt 59400
gaggcttgcc agctcctagg gaaatctccg gccccacct gtacttttca agcaagagct 59460
tttgaagtct tttgtgctag ttagagacta gcatagttag tagagctaag taagtatgta 59520
acagattcta ttattagggt tatctttgct gattcccatt tgattgacag agagtctctc 59580
accagaaaag tttgatttgt tttggcagtt ggaagaggat tttatggagc acttggtatc 59640
taaaaaaagt aaggctgtgg aacctgctc cccaccccc tcttttttag ctgtttgggt 59700
tggtcctagt gagcatgcct aatcttggga ttactcagca agcatgacct tagggctggt 59760
cttgtaaatg ttaccaaata tattacttaa ccacagatgt tcttcatttg ttgtgtccca 59820
cagccagagt tgaatggtga tgattagttc tgtgagactt gggtaaaacc tgtcttcttt 59880
aggtcttttt gtatgtggtg gtttgaaagt atttctcac aaaagtttaa acaatcacat 59940
ggtgcaaaag taaatagaat tacatgattt ttaaaaaaag ttaacttgta tcgttatata 60000
aattatagat gctcattgta gaatattttt taaaatgtcc ccagttcaaa agaaaaatat 60060
aatthatttg ttataatggt atatataggt taagcattaa catthtggtt ccatttcatt 60120
tcagtctttt aaaaaattct gtgtacatat ataatctgac tgtgtaactt gcactaagca 60180

```

```

ttgtattgtg aacatttcct catagtctgg tttatTTTTT ctatgttgta aaagcgactt 60240
cctgacacta gtaaattgta ttatttatga tgggcatggg tacacatatc tttatTTTTT 60300
cagctgctgc cttaagtaga attccaataa acccatgaga tgtatgtatt actcgtgata 60360
ttctttatta ttatgccccaa attgatagat tagtagaact ggcaggagca ttgggtcatgg 60420
aattcagtcc tttaatTTTga gaaatgatcc tttgagctag agctgcagga atTTTTTTTT 60480
ttttaaagaa atgagaaaaaa taagccagaa gagttgccct ttgcccgata ttattaaatt 60540
atttaatggc cttgagataa tcactgttgg tagcagctgc ctcctttctt gtccaggTTTg 60600
ggaagtTggg ttattgagaa tttaatTaa acatTTTTTT aaagaaccac gttgtactTc 60660
gttacatact caagtatgga ggaaaaaagtc aaactgaggc tagtagTTTta gtattgaatt 60720
gccaaaatct atgtattaat ttcatTTTTt attcaccagt tgatttgatg gcatgtgtaa 60780
gcagtcacca ttgtcttgat ttctgcatg tacctgtaca gaagtcattg ttaacgtgat 60840
actactgaca gtacatgctt ttctagtTga ggagtTaatg taataatTTT ttggctTTTgc 60900
agtTaaacac agTggTcggt attTaaagTta tTtaaaggaac TggTattTaa ggaatcagTg 60960
gagTcatgaa gTaatattTg aggtTtgatt tTTTaaaaat Tgcacattaa atattaacac 61020
ctttcagTtg gctTtgaaaa aaacagTtaga tactTgggag tactTtgcag aatattTtag 61080
aaaaacaatt acggcttagT tTTTTTTTTT tTTTTTTTTT tTTaaagaaa accaaagcaa 61140
tagcctgaga gattatctag aaaaatgaaa TggaattgTt gagTttccct tTcacctTgg 61200
gaagaactcg ggggaatggT Tgtgaacaac actggctTtg ttgaccctga agTgtaggca 61260
gttagggcct gtgaacatgg catttatagT ggtccaccgt ccttgctgcc ttgTaaaatt 61320
ctttctggaa Tggcagaggt gctctTtgca aggcgtgctt cctgtgtgag tacctattgt 61380
ggagTcctcg gTtgaatggg aggtTtgTga gaagtggTtt cccaccagca cacaatgctg 61440
cctctcgga atgTaaatac acattccact cagggtcagg cTaaacagTga ctggctagag 61500
caaacgcctt Tgcaaagaaa gatattTtg agTtccattt atttatagcg gccagTggaa 61560
aattaatatg cTtgTtaaT ctattTTTaa aaatgaaagg gaagtctctc atctaactgt 61620
ttgctgaatg caaatcaatt agctgtggca tattTtcatt ttgctaattt gttgctctag 61680
gaaatgaatt tcaatgtcct actaatTcct ttgtctatat ttgaaactTg aggtTctcat 61740
ttTaaaagTt ctctTtatgc ctcggaagac tactTtTggg ttctTtgatg aaaggcataa 61800
ataaatgaat gaccctagaa aatactggat caaatcatgg cgggactTaa aatgggctca 61860
ttgagcagta aatgaaggTc tagagatcag agcagatagg attctTcctt gagaatggca 61920
atacaatatt atttgTcgTt actTccttag TgtTtgatca tTtgctTtTg atctggggca 61980
tgagtctgat tacaggaaaag attggacggg aatccccatc taacaggcct ggattcacga 62040
gtgccaagTc cTaccctcca ctgtactctg ctgacagccc cagcaggaag tacctggccc 62100
ccaacatcag tTttcttagc cctccagcct actTtTctgc tctcatgatt taccaaatga 62160
attTgcctca caaatgtTct gTaatgagTg Tggcataaag tctTggagag agacatctgt 62220
gatagaatta gaatacctct taattTggat taactggTtc tTcctTcaga ccctgtcagg 62280
Tgaactgtag ttgtataata gaaagtGtaa aggagggaca gcaatctgtt tTtttacgtt 62340
ttTacatata actTgtTtTg Tgggagcagc aactctcaaa atgtcgtctg ggggaccctt 62400
gggtactcat aagaccctct TgagggtTca Tgacatcaaa gccattaata atcctaaaat 62460
gttactTgca tTttTcattc tctgtctTct ttgagTttac cggtgacatt aactgaaaaa 62520

```

tattttatgt gtgtcttttg tgttcatcat ataaggagta ctaaaattga attggagaac 62580
atgcccttttg taccaaagct gaaatttaaa aagatttttc tggaaaaatt aaaaaaccca 62640
ttaatgaatt ccttaattta gcatttgcac aacttcaaca caaaagagtg tcttgcacag 62700
aggaaaacct aaataggtat ttcttaaata aatgggtgta gctgcctact ttttcttaac 62760
aaattgtatt agtataaatt aatgtcattg ttcacaggca gtgtttggaa cataggcaaa 62820
gcaccatgct ttcaaacact aaaattcacc tatttgtgta taagccatat atataccaat 62880
tatcattctt atctattaat taaaacaaat ctcttaatt ctctggtgtg cgacatctgt 62940
cgaaagaaaa tattttctct agagaatttt gcatttttat gttttcaaaa cgtttatctg 63000
aattagtaat gtgactgtat acatatttta tattaaaatt ttatcataat gagctaattct 63060
gaaatggtaa ataggtactc ccttacacgg tgtgtctttg cacctgctaa tttgtttctt 63120
tgttaactgt tgtcatttca tgtgaaacat gaaatgttgc ggtctcttct gagctctaag 63180
tagcacctgg tatttgcttt atgttcagtc acattaagtg aaaaacaaaa ctgcttatga 63240
gaatgtcatt aaatgtaata tttctcaaga aataacttgc ctttaggaaa taaaaacag 63300
ttctaaactg attttcagt tttcagacag tgttcttatt gatttccgtc cccccaacca 63360
tgcaggagtg agaatcagat aattttttga aaaaaatatt tgaaccaata tctacaatgg 63420
cttatgtcag aaatccttga aatataatatt taagtataaa taggaactgt cagtgatgtt 63480
taatggtaca ggttcttttc cttataatga atgttttata acatctattc aattaagcaa 63540
aactgagtgt gtcaaataaa catgattgaa ttctatacga gatgattaaa gaaaaaattt 63600
tagtattctc ctggctgatc agaaatgaag gttaaggcat ggggtatgtt ttgaaggcaa 63660
attcaccttc tgtaacacct gtcagatttc aaagtctaga aaagaggcca cagctgggaa 63720
accaaattta gatattgggg cttatctcag atgaaaggtt tcgtagagca tggaggtctg 63780
ttgactttgc atggfatttc gtcagaagt tccaatgcgg attcgttttt agttaatcga 63840
gtataacatt tcattgtaat gccatttaac cttatgcctt tatttctaga actctagaat 63900
tctagtacag tgccaccata aagtgggtac acagtaaata tctggttaac acaatggttg 63960
attacctttt ttcaagttct tttgtttgat gtcattttat aaggtacttt tcagctaagt 64020
ccttcgtttg gaatattgtt attattaaag ggagaaacct tcaacctgct ttatacttat 64080
tttacagtag ttacttaaaa ctaatagact cttgaaaccc tttgtaccaa agatattact 64140
ccagcagtct cctcatcaat aacttctgcc cttctttgga gataattttg cttttgtgtt 64200
taatcacggc acatttcatt aaaatcacca tggaagacat aacttttagca atttataatt 64260
tggtttctgc tagttttttt ttttttttc ctctctaat tttaaaccat ctaggctaaa 64320
tggtagtgtg atagatttgc ttaatcctcc ttaagctact ttaaaatgtg ctctaaaaat 64380
tattaagtct gtatttttgg aaggaagcac caaaaactca actgtagcct ttgtggaggg 64440
gaaccaagca ctcttagga gggagatgtg ctcttgtggg ttgtctttga aagttatctt 64500
ttgatacctt ttctgttttg taccatgtgc ttgttttate tagtctttta aactcactaa 64560
cctatatata aattttaacc agctcttcta cttgggtttt gttgtcagat tcttagatgt 64620
tacagttagc tcgctaagag catggacttt taattttcac tttctgagtc tctttgttag 64680
ccttagttgt tacatttcta aatggacaat accaactact tcataggatg ttttgatgct 64740
aggtaagaat tagtgtgcag gtgccccaaa ctgcctttgt cccagcagac tgaaatagca 64800
gcttcagaac tcttctcta catctttcca gaaagcaatc agttgtttgg tgcttgcaac 64860

acattttttt ttttcttcta ttcaaggggg ttatgcatgt ctcttaggtg cccaaattga 64920
tgcacaaatg tgaatttgat tcgtaacaga tctctacaaa tggaataata aaatacgttt 64980
tg gatcttat taaagggcta tctggaagtc atgtgcttaa gtagccgtat cattcatggt 65040
atacataaag aaactaagac acagagagct tatataggaa aatctgaacc acagtcctga 65100
aaagcagggg gacctgtcaa agtgctgtgg ggtgccaggc aggtatagtg cccaagggt 65160
gggcaagggc tgggtaaagc gtgagcttct ggcgcttggg agaaggagca tgtattctga 65220
cttcctgtct ctttccacct ccccatgcag attagaatta gacttcctca aggggcttta 65280
gaagtgatgt ttttcgctat ctgactacag ttctgtagag ttttctctca ctgtctatta 65340
gaaacataca taaaatttca aatttcactg aaaatgtgta ttttcagtta tcccatgttt 65400
ggatgatgtg acaaggttag cttgggtatg tgtgagaata agggctcata gctttcgcat 65460
gtttccttgt agatacttga ctgtcatcat tgggatgtct ggggtgtgaga tgcattgtga 65520
tatgagtgtg cctggaatct aagtgttcta ataaaaatgg ttaattacgt ctgcaagctt 65580
atgtaaacac cacttaaaaa caacgaacaa agcaaacgaa cctttggttg gtaaaccttt 65640
ttgtagataa gcccccttc ctttttagtt aatatttgca aaactgagct gttatttatg 65700
tgaggatgtg gatctgaggt caagagattg tgtatatata gtgatgtaat tttttccat 65760
ttagttttta tgtttctgta aagatttggg gtatgttggg ctgctatgga agcaacctct 65820
atattaatag ggggttatgg aagcagctc aaattacatg taatttttac tcataacct 65880
tatatatgtg gatttttctc cccagaaga tactgcttc cgcacatta gatttgaatt 65940
cagacatgac tctgcttgc cacatttaaa attatgcaa gacaaaaatg tttaaaaagc 66000
atccatggat tcttgaaggc agggcctatg cattaggac atccatcccc tttttgact 66060
taagagcaca gtggatggtt ctttttggtt gtgtgttga acctagtatt tattttaatc 66120
tgagtggtg gtatttttaa tctaaaaaaa ctgagttca caggatttct ctgtggattt 66180
aaatgctccc aactaaatct tttatgctta taattggatg taaaacgaa gaatgttttt 66240
aaggtttaaga actttttcag acaactgtga ttttacttca ctaatgaaca catatcagac 66300
aagaaggcaa attccagact atttgtcct caaccaacca gctgggcaca tacctccagg 66360
tactgctcat gtctcaagag gtttttctgc atgaacaatg atcaccactc cttctttcct 66420
tcaagtggca agccatggca agagtcttc ttgcacagct gtatagaact cagctgtaaa 66480
attagatttt attggcataa aaacacagt attatcagca ctgtgtgctc aatacattct 66540
tttctcaaca ttttacttag attcttctt tcatgcagaa ggctcaagct gtacttaaat 66600
gagggaaaca ggtttttaga agttttgtgt gtgtgtgtgt ctttttttaa gcttttagtt 66660
aatcaatatt aggtatgcat ggtaagcagt tggatttgaa gggaggaaac atactccctt 66720
aagatcagaa aggaacctta agggcatatt acagatttat aatattgtca ttttataaga 66780
gaggaaatta attgctgaac ttcagagctg attatttttt tgacaaatcc cagattagca 66840
ctcagatttt ctagtactca gtgtgtgtgc ctgtccacga tagtgttttt tattttatta 66900
tttattttta gctattttta gcagaggggc tgtgaaaaat tctaataaca gttcttagtc 66960
cctctccata tccttttttt ttttgcgcta cttaatttga ttttttaaga agcaaggggg 67020
aatgtttgcc tgaagtgtac aggagggtt agctcaagga aaagcactaa aaccaccct 67080
aggtttctcc tgtccaatgg cagtgtccca catcaggttc ataataacca catgctaatt 67140
ccacatgggc agagccaatg ccaaggcact gctgtggtgt tactgggaag agaaggaaaa 67200

gccatattct cacagtagca gggaagtggc caaacagtc cgggtgtgtg tgatgaatga 67260
gcagattccc cagaatttca gaggtaaaga agatcacata gtgttctatt ttgttttaac 67320
gagatttttt ttctttcttt tgacgctgtt ggtgtttcca tagttattat cagaaagcag 67380
tttctggttt tgctgaaagg ctagaaatga caactatatt cagagtttct aggtcgtgaa 67440
acctcagtc acccttcaaa gccagcattg atcaggaagg aaagagggtt ttctaataag 67500
gaaaaataaaa cagtaaatga tactttgaca ttctattagt tgtaagaatg tgtgcaactg 67560
actgtcttgc tttgctctct ctctccctct tttttctaag ttttgctaata aataaaactt 67620
aggaagtaca catttaggaa gttgtctgtc cttgtgactg atggcattta tacataaagg 67680
ccacccatat ggggggaggt tcatgaatgc agtttttctt ttcttttttc tgtggtatat 67740
gattctgtat caaattttta cttctctaga tgtttgttta tttttttttt actacagtc 67800
aggcacaaac caatgtaaat cagctgcaca aatgtttgtc ataataaatt tttattaggt 67860
ttaggtttta tattggaagc catttagaaa ctactcttat aatcattcat aaaacattag 67920
ctattttatt gttttacaag agttatatag agtatagtaa tttcttagta acctcccaa 67980
cccctctttt tccaaacaca atatagcaaa gttgtatttt ctgtgattca ataagtcaga 68040
ttgcattttg agtattcatg tggtttcccc caccctgctg aatcagaaat attttgttcc 68100
cattattatt attattaaaa aacaaaaaca cagacagggt ttcgccatgt tacacacgtg 68160
ggtcttgaac ttctgagctc aagcagtcct cctgcctcgg cctcccaaag tgctgggatt 68220
accatgcccc atcattcccc ttattactgt tatacaaatg gccaggatgt tactctgctg 68280
tattttctga aacttgacct accatagatt ctactatta gaagtcagtg ggtattttta 68340
gtagagaagg acattttcat gaattgagct gattttacct aatgtgtctg tgacaatata 68400
tttttcaggc tacagaaaag catgtagcag agcaaaactga ttatgtgttg ttatgtttta 68460
agtgtgtgaa ggtgattggc taatctgtat tggaaaagac actagcttta tggagtacat 68520
ggaatcatag ttaactatag tggatgaat tctgatatta tttcaagtt gctttatggg 68580
tccttgtatt tgatgggttt tgaattggag tatggaagta aaaagttaa actgaacaca 68640
gacattctac ttatttgta tattactcca tcaacctttt tttttttttt ttttaaaaa 68700
aaaaaaaaaa agagacaagg tcttgctatg ttgccaggc tggactcaaa ctacctgggc 68760
tgaagccatc atcttgctc agcctcctga gcagctggga ctacagggtg gcaccacat 68820
gccagtttt ccatgacct tttaaacact gctccaggat agtcaaagtt agtgggaggc 68880
ctcattaggg tgctggtgaa gtgagcctgg gagcctcagc ctggcctgta attgaactca 68940
ggtaatcaac tcctctcctc cagcctggcc cagcgggttt ggttctgatg ggtatacttt 69000
gttccttttg gaactgttac gtttcttttt ctcttgcctt ttgaaattaa tttgcgtact 69060
gtactgctaa ctacatctt gaattaatgt aaggaaattt cagtcattgg ccacagagt 69120
gaagaccagg acattttgtt actaatttga aggccagttt cacagactta aaaactctcc 69180
cagcagtaat tagggctttg gctttgtttt aagttagaca ttcttcctag tatataattg 69240
ctttggcctt tgcagggtgg cctgcagttc tcttctgcga atcgtgtttt ttcgtgaatt 69300
tgccagtat gtttcttagt atagctgga accaaagta catggaaaat cttttttaac 69360
ttgaaaaaga ggaagcaaaa taagaaaaag gaataagcta gttgcctaga gaaatgcaaa 69420
aactgaagat cttttgtaat attcttttaa agtaaaagtt ctttaaaagc tttggggaca 69480
taattgggtg gaattaaatg tcttactaat agtgaggatc tgttcattct gtttccagag 69540

tgtcctgctc caaacctgc atttgagctc aggggttggt ggaaatgctg ggtcttgcta 69600
gaagttaatc tcaagtgtcc acgtggcagc cttccctgt caatcaaaag aatagaacta 69660
gctgggcgtg aagcacttgt ggttttagtg ttatgtgtgg ttagggggag aggttgtgag 69720
ggcctgtggt tattaccaaa ttctttgaaa tggaagtatg ggtacaaaca aaataaagaa 69780
taggagagaa accctgggtgc tctgtgaagg ggaaagagaa gtccatagga ttcgacaaat 69840
aaatgccttg tagtagagat gatctagttt ctgttttttt cttattagtt ttgcagtga 69900
tttcttcatt tgtaaagggt aattgatttc aagaatggat tcattatcac atctctgtgg 69960
tgtgttgggg gacagtgtgg atgtggtata gccttgacca aaatgcctga gtcctgtgat 70020
agatttggcc agctcagata cacatctgtc tagggaagaa ggaaccaga ccaagaaaat 70080
aagtgtttag tcagggtggt ttctactgag ctttttgac tgagatgaaa atgagttata 70140
gtgcagttac cgagagatca cacatctggc ctgctcagct accttcacag ctgacaatca 70200
gctggtggtg aaaaggaagc ctgcacaaag cacacagga acttccgaaa ctgtattcag 70260
ggactccttc tctccgtgtg tgtatgtaac tgacaatctg gctgccagc ccaagaaaa 70320
tttaagacag caaattagg aaaaggcgt gagactggag ggagtgtggt taatgaagaa 70380
aagagaaaga aaaaacatta caattcagca taagaactta ttgggaggcc gaggcgggtg 70440
gatcacaagg tcaggagtgc tagactagcc tggccaacat agtgaaacc tgtctctact 70500
aaaaatacaa aaaatagttg ggcatggtgg cacatgcttg tagtctcagc tactcaggag 70560
tctgaggcag gagaatagct tgaaccagc aggcggagtt tgtggtgagc tgagatcacg 70620
ccactgtact ccactctggg caacagagcg agactctgtc tcgataaaaa caaaacaaaa 70680
aacaaaaaac ttaagtaggg gtgggtgat aatagctctg tatatgtaag gtcaaatgt 70740
ttccgtgaca tcctaacca tcactttatg actgaacaca ttattcttat aaactgtcct 70800
gaaatcccta ataaaaaat ctatggccag cctgctcttt aatgaagaac atgtgtaatt 70860
tccattcaga atcattacaa acaaatagag taagctttgg ttcttaaagt taactgtgtg 70920
gctaaaagcc ttccacatcc attgcttcct cttttaattc cattgaaaag ctttgtcggc 70980
tcgctgcagg taggtattcc caaggtttcc tcacagctga gttgagccac cctgttgaga 71040
gttaagtcca tgtgtagttt tgtctcagtt actggttaaa actgaggagg ttacttttg 71100
ggttgctgtc accatggagt gatgactgct catgacaagc cttcccaggc ctctggccc 71160
tacctaacct gctttaactg ttgatggtt tgcagtgtgg tttcccagc tcacaacctg 71220
aatctgtgac tttctattag gaacactcac tacgtttccc tttcatgcc tggggaataa 71280
ccagaaaagat actgctgtga agcctaagtt ttatgcttcc atgcttttat acttttcctc 71340
cttgcccttg ctctagtcta tttctatgg agcatggact aagttgtttc tattctatga 71400
tcactttaag ggacagctg acaggcagtt gccttttaag tagctgggca gttccttgcc 71460
tcgaaataat tcatttcttt ctatgtctct tgcattctag gcaaataaaa gtattctctg 71520
tgtgtgcatg gagcatagaa atggggattt aaacattgtt ggctgcatgt aggcceccatc 71580
taactgaatc tgttaccta tattctgtgc aggaaagtct ggtttatctg gtgaaactgt 71640
tggggattac aaagaaggcc ttggattcta gcaagctggt ggctgaggga gaagatcagc 71700
aacgttggtt atggctgagt gagactggtg gggttcacag tggcctttat tcattcactt 71760
tattaattct cctgttttcg ccatggttaa tgggtgtgact gttgggtgga gttgaagctt 71820
aggagtgtat gatattcata tgttcccact gtatctctct caggagtgtt tgtacataca 71880

gcttccctgt ttccccctcc tccacttccc tcccagtcac ttctggtaac gactgaacac 71940
 tgtatgggtg gaaagtccat catgtagtag agcaaaattt tcaggcatct cacctaaagt 72000
 tgcctatgac gttttcagaa gcaaatataa cgatctcctt gtgccagtgg acttcttttg 72060
 tttctttttg gggtaaaaatc ccttatgaaa agagatggtt ttgcacatct gtgtcagtcc 72120
 ccatactctt ctatcctact tctgtaaggc cttttagtagc ctgggtctgt gggatccatc 72180
 taccttatcc cacacttgca gaacctggag ttaatgccct gcttaggact gacacgtgtg 72240
 ctgttttagcg ggcttggatt gctatgtctc attgacagca gtcctgttaa ctaacacaat 72300
 gcctaccaga aggttagaat tgtagtggtt agatgtgttg ttggtgttga gacattcttc 72360
 ggtactagag acaggagacc agggatgcct aaattttgta ccagatcaca actgtcttct 72420
 cagtccaacc tccccactcc cccacaggac tcacacaaga aacaatgaga aataggaatg 72480
 aaatagcacc attaatgga tatgagctgc aaatccaagt gttaaaaact ttggttagat 72540
 gggttggacc acatggagta taaagagctt caccceaaag caggtcctaa ggacctcat 72600
 ctccctcctc ccatttcaac tctctaaacc tgtatcatta tttactgtac actggcctaa 72660
 tagaaggacc catggaggct gaaaggacct agggggaggc cctgaaatgg gtttactcct 72720
 gttgccttgt tggataagag agaagagctt ctatccttag ttagactcac ctgtgagatg 72780
 tcagaacat gccaaagcggg agagagcttt ggcactcact aatgtagcag aggggatgca 72840
 gaggagacac agagccacag tctgcaccac agcctcaata gcgagtgcc aaggaggggg 72900
 gaagaagagg tgaaagtgt tctccactct tagatgctta tactcagacc ccttaatgta 72960
 aattactgcc ctgttaatcc aacctgccat ttcgaagaaa cattaaatga gacatcatac 73020
 ttagcacttt gggaggccga ggcaggtgga tcacctgagg tcatgtcagg agttcaagac 73080
 cggcctggcc aacatggcaa aacctgtct ctactaaaaa tacgaaaatt agctgggcag 73140
 agtgtcacgc gcctgtaatc ccagctactt aggaggtga ggcaggagaa tcgcttgaac 73200
 ctgggagggtg gaggttgag tgaactgaga tcatgccact gcactccagc ctgggcaaca 73260
 cagtgagact ccatttaaaa aaaaaaaaaa agaaaagata ggcctgtgta gtgtcaccaa 73320
 gttgagaaaa tagccatttt tctctcatgc attattagta agataaagaa tattaggaat 73380
 gaaattgaaa tagacattag atttcttctc catcatttga cctattcata gttcaaacaa 73440
 ttaagtcatg atgatgtcaa cggggactat cttagtttta attgtaaaag aatctgtttt 73500
 ctttcatgag gataaactat cagactttgg gcttgggtact tttatttgct taggaactga 73560
 gtaattgcct cataaaacag catgatggta ctattaacac cgaattataa ggcctgttat 73620
 tatagaattt gcttttctgg ttgggataag acttcttttt ttgttgctta aaacaattcg 73680
 tttctccaaa tgggtgtata ataaacaggt aaaattttgc ctatttataa taaaaaagtt 73740
 tataatctct tgggtggctt ttatatatct tttgatactt ccaagagacg gctttttttg 73800
 ggtgggatgg aaggaggaga catatatatta acatttagag tggaggattt taagaatgag 73860
 aataagtatt ttatttctgt catatctacc tgagacatat ttgaggcaat tgttttaaaa 73920
 tttgccccat tattttgtct gatttgaata ttaggaatta aagggttcat tgaccaaacg 73980
 tccttgaatt tgaaattttg gggactctat tatgaatgat aaatttaact gtgggctata 74040
 tggcaattgt tcctcagatc atttaaaatt gtgtgagagt gtctgtgtgt atttatattt 74100
 gttcgtttct cctttgtcca tctttgcat atattttagg cataattgaa gaatatgtaa 74160
 acacttctta aggaataagt tataattgta aataggaatt tactgttatt ttccttctat 74220

tgtattgcaa agctaaatga cgggtggcaaa taccattatg ggatgaaagt aggctttgtg 74280
 ttattttgaa aatgtgtatg aatttcattg gaataaatgg aataaacaga atagaaacaa 74340
 tggaatctac ctttaagcct gactgcacaa gtttccttg atatatctga gatacaggca 74400
 agttatgttc acatggccac ttagagattc tggcttttg tctcctagtt gaggctattt 74460
 ctttgccctt gtctacccc tctttggggc ctgacatagt aatacagggc tctcagatta 74520
 gaataactta ggtttcatga tggagcactt agattgctga cttgttatgt tacagggtgat 74580
 ttttgtggtc ctgagtactt ttttaaaagt ggtggttctc ttgcaggaag ccagctgagg 74640
 gaagttctcc atgaatgtac gtcacaaatga tgatgaccga ccaaaccct ctggaactgc 74700
 caccattgct gaacggagag gtagccatga tgccccactt ggtgaatgga gatgcagctc 74760
 agcaggttg tgtaggaaga ggggaattta agtcaaattg tctaagtggg aaacagtaac 74820
 gcagtatttg atttactttg ggattcaaag atttgtgatt tcaaacctta gcatttctag 74880
 aggtaagtgt ttttgttgta gaattactgt atcttttttt ttaaattattg tgattttaga 74940
 gaacaaaatc ttccctcatt cagtttgtat tcttgaaaca ttgaaaagt gatgacttct 75000
 gaagtgagcc attttcagat agtgtacagg tctttgaaat aaaatggctg tttattcatg 75060
 ccatgttggt cttgacgagt ttgcttggtt ggtcagagct gcgtgctcag aggatcaggt 75120
 tttggcttca cagaggagt atctcggcaa gacgcgcagg aactgtgaa cccacccttg 75180
 ctctggaat tagtccttcc aaatgtgtag ctcaaaaaa tcatggtact ttttccctc 75240
 taaatctcct ttgtcactag ttactgaaca ttgtggaata gagagttatt tgtgaactcg 75300
 agaagttatt tgtgagctca gtcaggtagc acttggggga aacaatttag acagtaagt 75360
 aaactttaaa aaattattag gaattgaact attacctcta atgttaatta aaaattttta 75420
 ttacaacagt tgggcttgct cagttttata actaaataga tattttatct ttgtaccttc 75480
 ttcagaagca taaaagcaaa tttttatfff gtgaaaagta gaattgggag caagtgcttg 75540
 gaaaatatff acccaaaaata tattcataat tcaaataagt taatcattta tttggtgtca 75600
 gtgcatgccc cctgctctaa tatacatat agtgtattca tactctatca atcattgtat 75660
 attaatctct tgtatatacc tttgttgagg ctgacctgc tgcttaataa tttatattat 75720
 tttctcctgc attgcactat gaacctctta agaacaaaa atgtataata ggtgctcagt 75780
 aaatgtttgt tagttgaatg catttcattc cttctacca ctgatgcaga catctccctt 75840
 cctgattcct caatctcttc ctctgctgga ttacttcag caacgtacag tagtatctta 75900
 cctctcccca ccagtaaaaa caaacctcc tcaattgatt ccacatcccc ctccagttgc 75960
 tacctcctgt ccccttttcc ctctttggca gtatttctcc acttctctc cttccttacc 76020
 gcccattcct cactttacag tcttactct gtgttctcat cttctcttc agtcttttagc 76080
 gtgtcctgtt gactttatct caggagtgtg tgctgaatcc atcctctgcc gtatccactt 76140
 catttccact accattgctg gacctgcgc catcatctca ctagggtagg gtaggacagc 76200
 tcttttcaca ggtctctctg ctttactttt tgccccacca ggaagcattc tccacataga 76260
 tcctgaggtt tatttccaaa taaaaacttt ctgatgtcat tagcctacct caggccacct 76320
 tctcacacct ggagtgaat ccaatcacgc tgcttggtg ccagccttcc ttgttagtgc 76380
 tggcctgcct ctctgtcatt ctctgcctgc tctcctgctc actgtgctgc attagtccac 76440
 gggaagggtta cggagtgttg tggatggtt caagatgcag tgcttggtct cccaattaaa 76500
 agaattacta atacaaagaa aaaaaagaca aggtatttag tcaaattgtga gtaaacttgg 76560

```

gaaacaactt aggtctctca gatgtggtca cctcattccc atttgcctgt gtagccgaga 76620
gacctgaggc cacccatcca tgttgtacac catgtttatg ttttgatgat ttcttccaca 76680
tgtctgtgat ttagcttgcc ctgcatactt tacctcaact ctaagcagaa gctgcttaac 76740
aattttgggt aataaaatca tactttcaaa gctggataag gtggtccatg cctgtaatcc 76800
tagctactca ggaggtgaa gtaggagaat cccttgagcc caggagtttg agaccagcct 76860
gggcaacata gtgagacccc atctctaaaa agaaaaaaa aaactcacat ttttattaaa 76920
tctttcttta attaatctta ttaaaacttt ctctaaagct aataagaaaa gaagaatctg 76980
ttaatgtatc tgttttataa atggtcaaaa taatcaagct ttatgaaaaa gtgggggttac 77040
acttaaaaaa atctcagaag aagaaactat ttgtcttttt aattgtgttt aattgtgtta 77100
aatatgttta attgtgttag aagcattaac atccttggtt ccaagctgtt acttggcatt 77160
aactctaact tttctgtaat gggcaaaatt gttaagtagg taaagtgcgt tagaaatgtc 77220
cctctcagca ggaccatccc aagatttacc atgttttgtc attgcctcta tgtcactgag 77280
gctaagccta ggagtggtcc tctgtgctg atatttttct tctcattct gctcccagag 77340
tctccatcct gtgtctccct cattctttca agcctccgtt ctttcccttg ggttttaaca 77400
tttagcattg gcctaagtgg gcattggcag agccttgggg cctgtgtgtt gaaccaggt 77460
gaaggcacia ggggaagaca gagtgagga gaaggaaaa ccaaaagtgg cagagaaaca 77520
caagaggaag tagggaaagg ggaggatag acggcaattc aaaagaaca agaacagagg 77580
tgagtctcca agacaggatc ccagaatgtg gggctgcatg agttttgagt gcttgctctg 77640
ggcacctgct gatatttgct gcttgccctt aagagcctgc gtagtgtagt gctcaggtgg 77700
ttccatgtta aaggatcagg ctacagcgga cataccagag aaaggatct gtacgaatgt 77760
tttctgaggc ttttactgtg ctttctcact gaagcaacac cttttcatct taagaagaac 77820
cttttgaggg cacaggattg actctagggg tggacattgc aggcgctata taacagaccc 77880
ttggcggtgg catcctgagg tatgtggcac ctgagtcacc tctcacatca tactgttgta 77940
aagagccatc ccctggccat agggttctgc ctctaaatgt ctgttaggag tgtgtatggt 78000
gaagcttacc ttgtatgtgt ttacagggtt ctaataactt tgcagctgtg caaaggacat 78060
tctaaacatt tctatatatg caaaagaact accgcagtta tgagaaagct cttcagttct 78120
cacagccctc ctcttctga tttctgttct gctggtttct ggatgtaatt aggactagtt 78180
cttggcagga ttctctgttg ctttatggct ctccaaataa gacacactgt taattttcat 78240
catttgaagt cacattaggt tggaacctt ggtttgtcat tttatgcagg tagcaggaaa 78300
agggcagtag tgaaaaggat gattcttttc ttaaaaagaa aagtcatcct cattatgaat 78360
gaaactttta aaagcggtat caactaaaaa tgaataacaa gaaacaatgt gaacagaagc 78420
agcttacaca agagttttcc ttatttaaca gctttatgag gtgtaattca cacgtcatac 78480
cattcaccca ctgaaagtat acgatcattg gaatctagta tattcacaga attgtacaag 78540
cttgactaaa attaatttta gaacattttt atcactctaa aaagaaccct ggagagatca 78600
ctccctattt cctattttct ctctcccttc cccctatcct aagtaaccac taattcactt 78660
actttctgtt tctgtaggta gatattgcct attctggaat ttcataataa taaaattaca 78720
taacatttgg tcttttgtgt ctgtcatctt tcaccaaca tctttttttt tttgagacgg 78780
agtctcgctc tgttgcccag gctggagtgc aatggcacga tctccgctca ctgcaacctc 78840
cacctcccag ttcaagcgat tctcctgtct cagcctcctg agtagctggg attacaggca 78900

```

tgtgccacca cccctggcta atttttgtat ttttagtaga gatggggttt caccatcttg 78960
ggcaggatgg tcttgaactc ctgacctcaa gtgatccacc tgccttggct tcccaaagtg 79020
ctgggattac atgtgtgagc caccttgccc agttcactca acacatttct aaggttcatt 79080
catattatag catgtgacag tactgtattc cttttttatt gccaaatatt ttactgcatg 79140
gatctaccac attttagtaa tccactcgtg atctgattga tatctgagtt attttcactt 79200
tttggctatt atgagtaaatg ctgctatgca cagattcttg tgtggacatg tttttgttc 79260
tcttgtatat ataaccacaaa gtgatattga gtagctttat tttgaagtat tattttctaa 79320
ataaagttat ctctgctttt tatcactatt aatttcttcc acctctgagt aactacagcc 79380
tagcttagct aaataaagtt tgcttccctt aatatgccta attgtatact attcttgagt 79440
tatacaaatc aggtttcaac ctgagttttt aatgtgtggc tatataaatg atgatgagtg 79500
ccattcaata atcagaaaaat tgatggcttt gttgacatat tcagaagcta gtggtatatt 79560
aacttacctg tgtttgttat ggacttctgc attttagtga ttttaaaatg tagcagccag 79620
ttttgagcac aaaagaataa acatcagccc aaattctgac tttctttatt gctttaatat 79680
tttaataatt tctgaagaat tatagcagct accagttaaa ccattagatt gaaaacagaa 79740
gtgctgacac aggggtggcag agtttactga tttgttaatt taacatgtga cacttacaag 79800
atataagggg atctgtgacc tgcattgagag tagtgtgcca ctttatatta tattcttagt 79860
gactttgctt aaatatgtat tcaactgagg tcaattccta gtggaactgg attggattag 79920
atgcctcttt gacctgacta gcatttagca tatggagcac atctagtata tgatttgtca 79980
tactattctt ctctcttctt gcctctttta attcatctat tcttctagaa tattgctgag 80040
tgtttttaaat gcttcttctt cagaaagtag aactccttaa acacatacag aaaacccgcc 80100
tctctgcta gctcaggata acgtctcatc tacttacctt ggaaggcaga aggcaattgc 80160
ctcaatcatg tccaattctc ttgactttgc ctattcctgt tgatcagcac ttagcatgtc 80220
atttcatgga gagagttttt tcccctcttt tgtttcttct tttgaaagcc cttgtttcct 80280
ctagacagaa tatgtaacca gagttttttc ctagagcgtt cttttgaata cacatttcca 80340
gatagtacgt tcaacatatt aaagctttcc acctcagat ggtgctcatc atcggcattg 80400
cttttatatc aaatgtgccc ctctctgtaa tccagtgacc ttttctgttc tggttgatatt 80460
cttcttaata accttctcct tgatggcttc cttcttgcat tgagtagttc aaatcctgtc 80520
accgcacagg ttactcctt aaatatactg agagccacgg tgtcaggggc ccatgaagag 80580
ttttgcttac atgacagagt ttgtctctc ctcaaaaac ccaacagaaa ggaaggtttg 80640
tcatcagtat attgtagaaa aatgaataaa caactcttgg ggagattacc caggagaaag 80700
aaggatatct agatgagaat gggagtgaac gttaagaaag agactgcagc tattattgct 80760
aaataacatt atagaagagc tccttttgtg gtagaatcct gttgtgggct gaggcttgag 80820
ctagaaaagta gaaagaggct ggtcaaatgt tgggtatgga aaaccaagta tggggaagct 80880
cggccttgga tcacattctt cagcatcaag atgcatgaga aatgcacaag ctgggcaaat 80940
gcttaaataa aattattatt gctgactacc attcatgttt cctctaccac tcaaacttat 81000
aaagccctcc agtgtcaaga tactgtcagc ttctctcctt tgaaattggg gtggaaaaga 81060
atgagaggat aagatttatg actaaattta ggagtattg aataatagat ttgttcattt 81120
taataagtat ttatcaaatg tcttgtatgc cagcactgta ttaggtgctg gcgacagaaa 81180
gatgaataag gcactgttct tgccctaaaag gaatgagcag tctagttgag gagcaaaata 81240

```

tggcctacca aaaaaaaaa gagactgtat ttacatacat tgagtcacag gagagtgcctt 81300
ggattgtaga gtgtcacagt gcgtaggagt tcagaggagg aattgaggac tgggatatgtt 81360
gggcaggaaa acagaccagg ctaggaaaag tatctgtggg gaggctgaaa acctgggtca 81420
gatcagatatt aaaatgaagt gaaggctaga atgatccaga ctttgtacat caagtaatcc 81480
gtttctgttt tattaaagga gaatacatta tagggattac atacgcaatg gagagctatt 81540
aggggtacta caaacaaacc ttatctgcat agtcgggtgat ctctttgcctt gaacttttgc 81600
tatttagtgt ctttgttagt gagtatattt gtctctgat tctccagtct ggcgggtccac 81660
ccttccgctt gatgcctgtt gctcagaatt accgactcca cagtggggca gatcacaagc 81720
acccctcaac cagatccact ttccagctgc ggaggcagca acccctgcctt tgagggcctc 81780
cttttaacta caaaaaaaag gtgtgatttt atccagatct gcggtctgac ttttcagacc 81840
tctctaagtt agttttgcc aatttgetca ctacaaaagc ttccaaaaag gcatagccta 81900
tgcagaatct cagtcttata aaggaaaatg ttgatgcat gttatcagag ggtgttgtta 81960
tatgtggcac cccaataat tagaacatag gacatataat tatggcagcc ctgagctgtc 82020
tgggttgaga gacacttcag aatttaatta gccaaaggca ataataataa gatataagat 82080
gtagtcagta tccttcaaat gctagaaatt gagctgcctt tccaacagga aggattaagg 82140
taaaatactg gcatgttagc gttgcattgc agaataatgg caattttaaa ttctaagggtg 82200
attttaatgt tatgattgtt ttcaaattat tgcaattttt ggctgtctga tttccttgctc 82260
aactcagggt gggtaggagc tgtgtctctc ttgttcatgc tgtgcctggc atctgaagta 82320
acattcagta agtctttttg aatggatgaa ggatgaaagc aatgaacaga ttttaattcat 82380
ctatatcagg gcttgaaaac tagcttattg cttttgtcat acaggcatgg gtgtacgtgt 82440
ctgtgtgttg tttttgtttt accttagtt taaaagaaaa ggatttcagt accaatatta 82500
aaaatgggaa gatttatata aaactctgga tttttctgtt tatctgaaa aaccagaaga 82560
catatgcctg taatcccgc tcttttgga ggccgagggt ggaggatcac ctgaggtcca 82620
gagttcagga ccagctgac caacatggtg aaaccccatc tcaactaagt acaaaaaatt 82680
ggccaggcgt ggtgctgcat gcctgtagtc ccagcaactc gggaggctga ggcaggagaa 82740
tcacttgaac ccaggagggt gaggttgagc tgagctgaga ttacgccatt gcaacttacc 82800
ctgggcaaca agaataaaac tctgtctcaa acaaaacaaa acaaaacaag aaacagaaga 82860
tgtgataaca ctgggctggt ccttcctacc tggcaacaat tgacacagaa gttgcagcca 82920
tttgctgttg atggggaatg tctcttcag tgctattct gtccacttag tttccaagcc 82980
tgctgaact ctgtggtcat cctggtttg aatctggaaa ttcttaactt tttaaacttt 83040
aaattgcac ttgtgctcat gcataccata ttttaaacac agaaaaatga ttaagatttt 83100
ttttcaagca catgcattat ttatcaaact gataatgtgt tttagaatct tttagtgtgc 83160
tacttgcccc atgacttgta aaatgaatta ggctgggcgc tggttcatgt ggctttgtag 83220
aaggatttca actttacctc ttacatgta ggacccatgt gagtttttgt gttttgtttt 83280
ttggctttga gtttttagga tttgaggccc ccaataagt ccacatggaa catttactaa 83340
agcctagaaa ggccaaaaga aacaatccta tcccgtagtt ttactgttta cagtctagtt 83400
aggagacatt aaacacagat gcaaggtaaa agtattccaa gcgcagagat gcaataactt 83460
gtgtttatat tcttttttac agtttccaag aattgagtct ttaagtattt attgaaagag 83520
tttttttttt ttttttaaag ggtaaaactt tcctggtatt acctagatga ggaattttta 83580

```



```

tttaaagcat ttatgtatgt atgtaggtat gcattggaga cagggtctcc ttatgttgcc 83640
caggctggtc ttgaactcct gggctcagat gatcctcctg ccatggcttt ccaaagtgt 83700
gggattacag gtgtgagcca ctgtgcccag tcgtaaagca tttccatatt aactttaaaa 83760
aaaataagat taaattggat agatttccaa actctgattt ctctttttct tgttttgaaa 83820
atgtcatgtt gaatgtgatg tgatagctat tgatgtatct catagtacag taaaagtagt 83880
atataaacac aggaggaaaa gatgagacac ttctgcatcc agaatatgtt tgcacataat 83940
cgttttcatg taggcagact cttttctgtt ttagtccaaa tgattgattt aaacatatga 84000
ctatataaaa tatatgctt acactccaaa catgacagta gtaagcaagc tgcgtaaaat 84060
tcgtaacatt aatctccaag ttccaaatgc agatactcat tctcgttctt tttttctctc 84120
tcctacattt ccaaagtcaa aaataaacag cctgccaagg agcaagttgc taaagtgtgt 84180
tagtgtttta tctaggtaat cttgggttta gctgccttta gattatattt gtttctcat 84240
ttaaattggc attggccaca actaggtgcc tcttggtcat tttctggtca gctttaatgt 84300
tacaataact tgaagctaga catggtgcgt cccagaaga aacaatatac acgtgctgt 84360
ttagtgtgaa tgcctacatt ggtatttctt ccctgccctg ggccttttct cttaacaggt 84420
gactgtcaga tcagatcatc tgttgagagg gaatgtgttt tacctgagct gcaggtgtgt 84480
tcagcacttg gattaacaag aataatttgg ccctcccttc ctgggtgtcc tctctttcct 84540
gccccctccc tgctctttgc agcatagtag acaagcattt gaataaaatg gacaatctgc 84600
atttagcaaa ttacccttcc aaaggcttct gttttgcaaa taattgggca gttaagtgga 84660
gacaggaaag atccagaggt aaatgtggtc tagttttggg tgcaggttga ctacaaagta 84720
tgtcagaaaa ctgttacta aggttccatt tcggctgttt aaaaaatac aaatcaattc 84780
ttgttagcca caccttagat ttgaaggga atggacttgt gttattgacc aattatatta 84840
catggctttt aattttcagg aagggtcatt aatatgtttt gtttttgaga ctcactttgt 84900
tccccaggct gtagtacagt gatacagtc cagctcactg cagcctcaat cttctgggct 84960
caagctattc tcccacctca gccttctgag tagctgggac tgcaggcgtg taccagcatg 85020
gcctggctac ttacttttat tttttgtaga gacagtcctc ctatgttgcc caagctggtc 85080
tcaaactcct ggttttaagc catcgtcctg cctagacctc caaaatgtg ggattacaca 85140
gggtgtgacc tctgtgccag gccttaacca aaccttttct tttgttgtt gttgttatat 85200
tcatgcactc agaagttgat aatttttttt ttttgagct ggggtctcat ctttccacc 85260
aggctggaat acagtaaaat gtttttgtgt tttctaagca gtggttagaa acattaatca 85320
ctgagcatgt tactgtctca gaagtttctt tggcttttat attggagtgc tgagtgttca 85380
ttctagttca tgggagaagc tatgacatac agaaggatgt gctttaatta gcgatgttgt 85440
ttggtagtta aataggccac agtaatgcag cgaattttta atttttattt tatattgcca 85500
gaatggatct gtttagaacc catttaaaact cttgtcacct tggcaaaaag gtcacatgga 85560
aaacatcttt atagaatggt gatttcttta taatttactt gatggcttta gtcgtgactg 85620
aatgtaaaac tataaaatat taatatgaat tgcaaatgaa tggcatccat atttttctct 85680
tagggtttgt gataggaaat cagatactgg gtttatctat atggataata tctgtctgtt 85740
ttcaggacac agggaaatcga tgggtggagt gggtgttaga agacatcatc ctttcataga 85800
tcgggtgtcca catccacctt acttcccaca gtctcttgc tttctatttt taaggtggtt 85860
tactcaggat gagagttctc ctacttttta ttgactactt ctgcacacta tgctactcca 85920

```

agcaatcttg gaactttttt ttttctctct agatgaagtc ttgttctgtc ctccaggctg 85980
gagtgcaatg gcgatgatctc agctcactgc aacatccgcc tccctgggtc aagcaattct 86040
cctgcctaag cctccccgagt agctgggatt acaggcaccc gctaccacgc ccggcgaatt 86100
tttaaatttt tagtagagat gaagtttcac cacgttggcc agtctggtct cagagtccca 86160
gcctcaagtg atctgcccgc cttggcctcc caaagtgctg ggatttcagg catgagccac 86220
cacacctggg ccaatcttgg aacttttaaag agcctccatt aacaaggcag taagataggt 86280
gtcacaccag gtgtgagtgc catctttaga ggggtacagt gaccattttt ctaacagtta 86340
ttcttaaacc tagagggaaa tataggacaa aagatgctgt aaggttgact cttccagaga 86400
tttccatacc ttagcaatct aaaaactgta cgaaaggta gagttaggac tttgaaagaa 86460
tgctaagtgt ttgacaaaat ttttggcatt tacctcagtc ttaagtgtca ctttggaagc 86520
ctgctgatca cgagaatgct tttagtctca gcccaatctc aacttctact tgagtggta 86580
tctgtggaca ctaagttaaa attgttgga acagtggctt ttaatggata tttttatctc 86640
tttcttcctg ctgaggtgga gggaaggatt agtgaccatt ggggagggtc tgtgaggtgc 86700
tggggctggt gctgagcact tacacacatt atttcatcca gtaattacac accctgcaag 86760
gcggcaatca tctttataga caaaacccga ggggagaaag gttacgtact tgtaactggc 86820
aaatcacaga gctgggattc gaaccacgt atctcttttt ccaaaactca gatcctgcct 86880
tctgggaaag gtggagctgc ctgggttgga cttacctctc agtcttggtc aggtaaacag 86940
ctggggaaag agatgggact aggtttttgc acagtagtaa attgtaaagt ttatagaggc 87000
cgttcctctt cattatctta catgatttcc acattaactc cagaagggtg cagtgcctct 87060
ggctccccag cttctgaaaa attgaggact aaacagcagt ggtagtgtca gaaggcctgg 87120
aggtaaaaag gagttgggag tgaaatcttc cgaagcccca gcctgggtca cagcagcgtc 87180
tccctttttt ccttagggaa tggttctttt cttgagattg gcaataggag ggctgctccc 87240
ttgcgggtca gcagctgctg agagatgatg gtggccagaa aagggtagta gagggtagta 87300
gtaggtagac atagtagagg tagtagagtt tcctcccctg tgggattctc accctggagt 87360
taggagaggg cttttgcct gccttttctt cccaaacccc atccttcatt tccgttaaaa 87420
aatgacatca ccctagaggc agctttgaga ctaaagaagt ttaaaacctt gtaagatttg 87480
aacatattaa gtgatttttc attctgaatt tacagagtaa taccaggata aaagaaacaa 87540
agttttatcct tcaaaaaggaa agaaaatgac cacaggtatt tcttaaactc ctcacctcta 87600
cttttcctgt tttctaaggg gaatacagaa ttaagtgtca cgcagatttt tactgtgaac 87660
agtgtgcca tacctgggtg ctcatgagtt cgtcgttttc tttgttttag attgatgaag 87720
gactgcttgg attttgactt tcctgaagat gttaattata tgtttcaaaa atcatgtgtt 87780
ctgctaaaaa tcacttatgc atagccttgg aaaaagaact ggaggcaggg agttgcttca 87840
gcgtgcagaa tattgttttg gaggccttgg gaaataaatc ttgagttagt tcatttacca 87900
ccaagacata tttagtact gtatataaac aaaagaagtc acagtgtgcc tggacattat 87960
ttgtcccaga tggagttaa acttggtca ttatactgca ctgatgtcat ggtgcataaa 88020
ctggctctga attcaacgtg catagaatcg gctgtgcttg tatgtgctga ggacatgcgg 88080
gaggaggggc ggggctggct ggaaaatctt tgtcacattt ttcctttgct ctctgtagag 88140
actagtgtca gtcttgaatt tggacttggg gcagaatgag ggaagaattg gaataatctg 88200
ttaatgtgta cgagtcagta tgtgtatgtc ctcaaagctg tagtgcttcc aagaccgaga 88260

```

atctaagtgt gcctggcttt ccaacagtta cttaacaaag ctctagtaac tcaaattctag 88320
aaagggaaaat cttaaaggca ttacatttta aaagagcatg tttagtgtgt ttgccttgaa 88380
gtcttaaatac tggacagctt ctttaaactt tgcaatggtc ttaagtatcc agctgtaaaa 88440
ttctgttttc ctggattgta tggtaggaca tgtctcaaac tagttgctta aaagtatgta 88500
aaaagggtggc cgattttaat tcttcctgtg tgctttgaga gggcagcttg tgggtgagaa 88560
aactgagccg gagaggggtcc tttcctggac ttctgagccc ttaataggaa atttcacat 88620
actgtgggtgt tactttatta ctttttattg ctggcttttg ttgtgataat cttataaga 88680
agcatttcca agtaattcaa accattttgt agatgtaaag ggcttagatt tcagaacttc 88740
tgtgaatgga ttcctatagg agtcactctt gttgccggga cacagaagct gagcagacac 88800
tggaatgtga atgcattggg aggtgaacct ttaaggagag cgcaaagtgt taccaaagag 88860
aaaatctggt cagagggtgag aagtgggttg ttttagattt tattgagagc atgaaatgtg 88920
gcagatttgg taaaaatttt ttcttgagat tgtaatttta cttactgag agacttgtca 88980
ctggtaggaa tttgaagaaa aagaaattgg gggtagaagg ctctccttca gggaggaacg 89040
catatttcct agaagagaac ttgtcctgcc tttggggatg ttcctttgac ctggttaact 89100
gcattctctt tattttagca gtcttggtga attatctcca tattgaattg acatggtgaa 89160
accacaccta gtagaggga gaagtgggtg tgtgggctag atgagtatgc attttggtca 89220
gacatggctg gattccagtc actttgtagt tttgtacct tggaagggtt gcttttcttc 89280
ttcaagcctc agtttcccca tttgtaaaat ctagttaata tctacctagc agatgacagg 89340
gattcaataa gtagtagctg tttcttaatc attatagaaa aaaacctgga aaaaggagtt 89400
gataaagtac cttgcatcat gccgaattaa tcttacagat gtgatattga ggatacagct 89460
tttgttgttt ttgtttttgt ttgtttttaa caaagaacag tacattttta tttttaattt 89520
taacttatta tttattatta ttattttgag acagagtctc actgtgttgc ccaggatgga 89580
gtgccgtagc agctgccgcc tcctgagttc aagcgattct catgcctcag cctccagagt 89640
agctgagact acaggcaccc accattatgc ccggctaatt tttgtatttt tagtagtgac 89700
ggagtgttgg tcatgctggt cgtgaacttc tgacgtcaag tgggtccacct gtctcggctt 89760
cccaaagtgc tgggggttaca ggcgtgagcc accacacctg gctgaggata cagcttttga 89820
accttctatt ctttgaagaa aacagtatta aaacttttgg agtagtggt atccttgctc 89880
cttattttga acagtgagag tcctaaagcc caggaaaact caaaacatat ttgccatgta 89940
tcctacgggt tgtgttgagc aaggggagct tcacctaca tgtgtgccct tggacctga 90000
gttcccagtg tttgcttagg tccgcttggg ggcttctgt tattgtatat gatttttcaa 90060
tcagcttttg attcaggctt caggtagggc agtgagcaaa atgaggcaat ggatacattc 90120
acatcttctt accaggatct ttctagttta cttgcttatg tttttaatcc tagacatttt 90180
ctttgcatgt gttattacca caaagatcaa tattgggcat tcgcaccca tcaattccct 90240
tttctgatt tggagaaaag aggggactca aaaaacaaat gctgcttact tttcagtttt 90300
gcctgaggcc agctgtggtc tgttgcacac agactggggt ctcaaagggt tgtgtgaata 90360
cacagtttgg gtgtgggggc ctgggacgag cttggagact gggaatcttg ggggtggggc 90420
tgaggagtgg ggagtgggag tatatgtgac cagaaaatag tggcatgagg aatagacggt 90480
agtactcttc tcatgtggtt aaaggtcact tttaaagtta ttaggtattc ctggatagta 90540
tgcttagttg agtggaactc ttctgcagct tttagattgt atcaatttcc cccttaaaga 90600

```

tacctgttgg ataatacataa atgtgggctc caaggaggaa gtgttcattt atacatgaaa 90660
acaagcttca cgaagtgtgg ccagtggaaa aaactctgga agtgaaatgg gatctccttt 90720
ctgcatgggt tataatcttga ttgtctgagg attggattta acggttaaaa atgctgcaag 90780
tgtaatatatt tgccttttgt cagttgggtac cattctccca ggagacgctt tttttgggag 90840
acagtcttgc tctgtttcct gggctggagt gcagttggca ccgtcacggg ttgctacagc 90900
cttgacttcc taggctcacg tgatcttcct gcctcaacct cctgagctgc tagaactacg 90960
ggaatgcacc accatgtccg gctaattttt acaattattt ttgtagatat ggagtctcac 91020
tatgttgccct gggctgctct ggaactcctg gtctcaagcg attctcccca tctcagcctc 91080
ccaaagcact ggaattacag gcatgagccg cttgtacgtg gccagaagct tttttgatgg 91140
actgatactt taccctgatt gcttatttga gtgactgggtg atttttttat ttgaggcata 91200
aattagacat ttgcctccag aagtagtctt agatactatt gacacctggg taatcagcca 91260
cccaaagttt aaactgcaaa agtagccttc ctttcctctt tttaatgagt aagaaacaga 91320
gttagtttta gatttatacc tgtaaaggaa agatagtacc cttcttttca gttccctgt 91380
tagacaaaga attcccatga tgctgtattt gctcaattgt attaattgta actcttgttt 91440
tattgtttct gtggactttg gaagagtggg cacttatttt ttattaaact ttgataaact 91500
gccttctgtt tatttccagc ttcattggtt ttgtagcact aacggttttg aaacagatct 91560
gatgaagcaa tagtagctta gaggatgctc tcatgatttg attagcatgg ttcttcttaa 91620
catctctgga gaaaaaaata tcagtagtta aaatctttgt cttttttttc ttctgtgaa 91680
gacgtggtgc aatatgaatc agtttaatgc tgactttgga aaagtaggaa atgcttagtg 91740
agtagacgaa aaatgatgcg gtttggacag caatgttctg tttcgcatth tatattaagg 91800
aggacttgta gcagttatta tatttctgct ttgtggctgg ggagagggaa ggaggagg 91860
agagagagaa acattgcca acttgatga gaggaagggt taagtgccgg gagttggcca 91920
ggttggtgact catgctcctc cggggctgcg tgatgcaaga cctgccgcca gctcattcat 91980
gtctgctgtc aggaccggtc attgggctgg tgtgtgtcaa acttattttt atctctgctt 92040
tattgacaat gaaaacagct aggtgggtcag cctccctcag tataataaaa tgctttcttt 92100
taaaatacct cagtgccaa atgaatacag tttgtttaaa taatgacttc tcctctactg 92160
agaaaaattg atattgggac acaggagact tgcttggttt ctgaggtaac ttggtagatt 92220
ataatctggt tgccatggct actcagcagc aatgaaaatt acatgaacta aacatttgaa 92280
gggtgggtatt ttcgtcggat gcttaaaagc ccgttaccta tcacttttct cgctgaagaa 92340
gtggaatggg ggtcaggaat tgaactcagt aagcagtggg ggaagacata agtgacactt 92400
agaggctgga tgcctctggg tcgttctttg aagtttggcc tgggtgtcagt gaccactgag 92460
gaactgttac agacactttt tatgcaatat gataagcaga taacgtgacg acagtctgga 92520
catgtcccaa ttcagaaatc cgttttcttg cctgggactt tccgtaatat tgggtgaattg 92580
tgttttctga accagtattc gggacacatt gtctgacaat tatgagcgtg gtagaagaga 92640
gtatatgaat ttgggattgt cagagaaaat ctaggacaga gtcttggtat ccattggttc 92700
cccgtcccc caactaatta attccatggg catatatcac agttctatcc ctagagcttt 92760
aaacacaaag caaatgggtt ctgctttatt acagtgatgc tagaattggg ctaaggacct 92820
ttaagaagac ctggataatc gtctgtattg aagtgttggt ttcttccatt gtagttttta 92880
tattgtatat ttatgtaaaa ataaatgatt ttcattgtta agaaattatt ttaaaagctc 92940

cttttcaaga aaacaaatat tttaatcatt ctagagatct tgaaggaatt tccttttgag 93000
tttttgaaac agtacaatgt acttacattg gtggtaatth aaatactgaa aactcaaaga 93060
ttatctacag ttgttataca ggaaaaataa attgccttga aataactgtc ataattcaag 93120
agcaccaggg gtgaagctta gtctgagttt ccctgaatga tcctatthttt tttccaggta 93180
atgtatthttt tgatttaaaa aatthttagta ttccagcagt gtcacttgga tgaattatta 93240
gaagaggcaa aatacatgga tattaaagat ggagthttta aagatgaaat ggctthgatc 93300
tcaatagttt tacaaaacaa attatggtgt atacagtaaa taaagttgac tthtaaatg 93360
cgtcttatga aaacttaatt tctaagctaa gataattatt tgcaatagtt tthaaaaaat 93420
gtthttatgac tthcattcat ccagtgaag taattattga gcacataact tattctatgc 93480
caggcatggg gctagatagc tggatgttat ccctatcatg cctagattga agaaggaaag 93540
acagacacta acataattgc ttagttaatt aattgcagtt gtaaattcta ggaagaagca 93600
gtagagcagg tthtttgtht gatttagaac acatagccgg gtacctgacc tgtcctaaga 93660
gttaaact actatcacaag ctgagaagga tgaatagacg ttggttgagg atggaggag 93720
gaaggtggta agctaagatg agggagtaca ggaagagtat tacagacaga cggaacagta 93780
tacttgacag tthcgagcca gggaagaaca gggcttgthc cagtaactgt aggatgaatg 93840
tgacactgac atcctgtcaa tthctagaaa thctatggtg atthtttaaaa agtgthtagcc 93900
thgtacatgg tggthttta ctatacttht tgtgatggtt gthgtthttg agatggagtc 93960
thgtctgtc actgaggctg gagtgcagtg gcatgccaca acctccacct ccaagccatt 94020
thctgcctc agcctctcaa gtagctggga thacaggtgc ccaccaccac gcctggctaa 94080
thtttgthatt thtagtagaa aggaggtthc acctaggctg gtcttgaaact cctgacctca 94140
agtgatccat ctgcctcagc thcccaaagt gctgggatta gaggtgtgag ccaccgtgc 94200
cagcctaact atagctthtt aagthtgat tatgtcttht aacttgthatt tagatatcaa 94260
thagtgaatt tthttcctth gattatcctt tgattaaaac tattaataaa actataaggc 94320
tgthgagagc atgtactthg ctattaccac tcatggtcta gtcttggaag thgtctaata 94380
thaaatatth atgttcatat aagtaaaaca thgactthaa acatttggtt atthggtggg 94440
gcctatthtat aataththatt gaatactgtt cattatgtc thaatatcct atacacagat 94500
atthttthta caaaatgtt thttgtaaat atthttthgt tgtcacacaa tggaatcata 94560
taaccagat cagtaataga cacttggaag cagtatgcaa cactgttagg tcaaacctc 94620
atthctagat gcagctthct thtataagta tggthttctg thttthttct thtttaattg 94680
tagthttcta atthtgtaaa gagaaaaagg aattgtgctt thcaaagaaa aatthttctc 94740
aaatggagth tthaaagth gatagcatca taagcaacac aggagaattc acttagctaa 94800
atthaaatgc atgtactcct thtatccca tacttccaat taagacttht atthcaagth 94860
thgtgthtat aaacathth atgccacata thtctgtct agtgthataa thtaggthatt 94920
aacacthgac aaatcccaga ggttccagta thaaactgaa atthaatgtg thttthggca 94980
ggtthattct gthcaagth atccagthg gactthcaca atcagagcgg aggatggaac 95040
acttcagthc atthcaagth aggacathth tggthaaata thgaatcaaa gaththttct 95100
thattthgag gatgthaatg thttctatgt gtgtctgcat gthattthct agatgthaaag 95160
tatatctthg atathcath thttthttct gtcacatggt thcaaathg thattatgatg 95220
thattccaaag gataththgta gtgthaaaa thgtatthgg thtctatthg thagtthattg 95280

```

ctgagtaaca agttactcca aactttggtg gcttataaca acaagtatta actcacaggg 95340
ggctattggt aggaagtttt ctgcagttac ttgttaagtg gacctttcca tggagaagcg 95400
gagggggcctt atgttatggc atctggcttc agagccaata actagagggc aagagggagc 95460
tagtaggtcc agcccagact cgagaagaaa ttatgaaagg gtgtgaatac caagaggcag 95520
gtcattgggg accatcttgg aggctgcccc acacagtcta ctctttggcc cccgataatt 95580
catgttcctt ccaaagcaaa acttccccct cccaagatct ctaaaagtct tatccatta 95640
taggattagc tcagacttca gaatcttgtc acctaaagtt ccagggtgtag gtaaggcttc 95700
tggtgtgtgt tcttttatta tagctcctag gacacttcta gtttgtatac taatgcctct 95760
tctgtatatatt cacttggaaa taaatgacgt aggtactttg atccatatgg agttctgtgt 95820
aggaagatca acctagatct gatgttagct ggtaaact gcagtgttaa aaggcactgt 95880
ttatgatagc tctttttggc agtgattggg attatggggt aaatggtaaa ttggcatgca 95940
attgagatca gtattagggt attaattgaa ctggaatcta atcagaggct ttattattaa 96000
tacttgaact tgcttaccaa tatacaaaaa aactggggga aatgcccttt agtttcagtt 96060
tcccataatg agctatacag aaacagggtt tttttttttt ttttttttgc cttgcatagt 96120
agtagagcat gttgctttgt actttatttt tgtatctata agaacaaaaa cttagaaaat 96180
atttcttgag aaatgagtat atttttaaag attcaaggct aatgagtttt aattgaagtt 96240
aatattagat tatttaatca tttttattaa tgatttctac tctgcatttc tctgttgtgt 96300
cccagaaatt gatctttgga attctaaatc atttaaaatc aaaacctagt cttagtcgat 96360
gaacaatatg ggggaaactt caggtaagg aagagaagaa gtatttttaa atagtatgga 96420
ctacagggtc tttcacctat ttatagtatt ataataaatg gatattgtga acaattaaaa 96480
cctcagaatc ctacaaccct gtatctttaa aaaaaaaatc aactagaaa aactagatga 96540
aagtcaccaa tatgggatga agctgagggt ttcagttcag taagaaagca gttaagcctc 96600
tggttatggt aacattggag ccccattaat tggtctgtag attatgtccc tctacaacta 96660
agtatgtgta atagaatcta taaaagcaaa tcacttagtg atgaacatgc ataaaatctc 96720
tttcattcca cttgagttaa cttcttggtg tctaaggagt gtgtgcgtgt gtatgtagt 96780
tgtgtatatg ttttgttgt gtatatgtat gtgtaacttc actgagttag ccgttcccct 96840
acttttttct ttttttaaatt ccatgttata actggtgcac ttcgcaggaa atgttgcaag 96900
tatattgctg tcttcacaat gggagctttg tatttattca tgatgatact tggagataag 96960
tgacactaac actccttcca gtgatttcaa aaatgccctt gacaaaaaca gaattgtgga 97020
gccatttatc tttggctccc tccaggcttc ctattctttg ttctcttctg aagtctcaga 97080
tactatggtt atcttcattt tggggagtgg tggtagctgg cccaattaat tgaaatggca 97140
caggatggaa tgaggactag gacctggatc cagggtcttt gctagggttt cggaagcact 97200
agggcaatag gatgaactgc agaaactgga aggaaagtca gcttagcagg ctgaacccca 97260
agttcagact cattgaccgc cactaatgtg tataaaaggc agtcactcag gcaaaaaata 97320
agaaagcctt tatgtgagtt ccagtatgag tttgtgaatg tttcactcca gttgggtaga 97380
atatagcaac ataaaatgtg gcaataggca gtatatttgt acattccaac acaagttgct 97440
gtgtcatcct cacactccca gtgatgaaca tcatctctac cattgctgac atttattcag 97500
ctcaggctgt gctatgcatt ctgtccttta gtgagtgtgt agttacacac aaggaagctg 97560
aggcctgtca aaaagtcaca tagcaagaaa gaggcagagt tgagttttct tccctggtat 97620

```

gtctgacgcc ctgagttcct tgttctgtgc ctttgtgtca gggaggactc cattctcttg 97680
 ataacagcaa ggtaacttc ctgttcctgg agtgacagga ttctgagctg gatagtagga 97740
 tgagtactta gatacccaga atgagacaga tggttcgcag aacaaaagtg gatggtggag 97800
 actgagtcctt gggaataagc tggggcgagc actttgttaa caaagtgaga tatactgatt 97860
 gagcagtgac tagcagacag tgtgatgcag ggaatattgg tttagaactc attacgttat 97920
 ttctgcccc aatcagggtt gggttcagat ttgggggtggc tcagcttcca ggtggagctt 97980
 ccagctccag ctgttgtcga ctggggccag ggagggtcc agctccagga caatgggaga 98040
 ggactcgtag gtacagtggg aggagtttct ttgccattta aaaacctaata agaaaggaat 98100
 ctgaaaatgg tcacactgta atggaaattt ctgaaagaaa tttttgtatt ttgttaggga 98160
 tttaagagat cgaaactcta cttacgttct ttcaacaccg gccaacaggt gggaggtggt 98220
 tttgttttgt tttgtttatt tttgtttctg agatggagtc tctactctgtt gccaggctg 98280
 gagtgcagtg gcacaatctc agtcaactgc aaccactgcc tcccgggtt aagcgattct 98340
 cctgcctaag cctcctgagt agctgggact acaggcgtgc accaccacac ctggctaatt 98400
 ttttgtattt ttagtagaga cagggtttca ctgtgttggc cagggtagtc tcgatctcct 98460
 gacttcgtga tgtggccgcc tcggcctccc aaagtgtcgg gattacaggc atgagccacc 98520
 ataccggct ggtgtttttt aaattgaggg aaaggtgatg ggtggtggtg gccttcctgg 98580
 aaattttgaa gtcataccca ttgatgatgc catggttgaa actgtcagcc taataacttt 98640
 gctattttaa cactagccct cagattaggg actgctttgt ggggatttca ggtagggagt 98700
 ggagttgggt gctgggcctt cctggaaact ttgaagtcac attgtatgag gtcagtcctc 98760
 tttacttgta actgaattta ttagtctgat aattttatct ataggacatt tatgaaacca 98820
 ctagaaagac ctcaagaagc cattgtgatc tcattaaaag gcagcttgga agttgaaagc 98880
 aaattaatac agaagaatat ggactgagtg gggaagctca cacctataat cccagcagtt 98940
 tgggaggcca aggcagaagg attgcttgaa gccaggagtt aaagactagc ctgggcaaca 99000
 tagtgagacc catttctacc aaaaaaaaaa aaaaagaaaa aatcagtcag ttgtggcggt 99060
 gcattcctgt agtcccagct actcagaagg ctgaggtggg aggatcgatt gagcccagga 99120
 gtttgaggct gcagtgagct atggttgac cactgcattc tctcctgaga ccctgtctat 99180
 taaaaagaa aaaaaatgtg tttttatggg aatgtccttg gtgataagga agaaaacaca 99240
 ggaagcatac aatatgctgt gaatgcagat tcatttctaa tggaatattt ctcaatattt 99300
 cccatgaaac atgaatcaca ggtctcggag gggccaaaaa aggtcatagt ttattctcac 99360
 ttggggtcag cctataacct tggcactcta gacaacagat ttattttctc ttggccagat 99420
 caaagtgtat aaagagctaa ttgttaggaa aaaagaatct tagcaatcaa tatgaatttt 99480
 gcctttgctt caattcagga attaatagag ggcacacttg ggtctctccc attattttca 99540
 tatctgtgtc tgggctgagg tgctggcaat gcagccttc ttcctgtcta cacatgccat 99600
 ctttttatct gctccctgta aaatccgcca gccaaaacaa acatcatgct tcctttaaga 99660
 cttcaggcct gtctcttcca agagccctcc cagaccactg cctgacttcc cctgaattc 99720
 tggaggagca ggtagaggta gcactacaca gtctggttat atgcgtaaac ctttccttag 99780
 ctctcgaatt agatgtgaat tcagttgtga caggaaacag tgtatcttaa ccccgctccc 99840
 cagctacaca gcttagaata attactgact ggattcctga ctggctctgg tattacattc 99900
 aagcatgatg atttttcttt tcagttttac tcttctgttg gcagtttaag atgttttagtt 99960

acgtgctttt agcagtcctt aaatctcgat agaagaactt tgaaatacca cattgcgttg 100020
ataattgaag ttaatgagtt tcctttagag aagcatgttt aaattctaaa gaacttttat 100080
aatgacccta cattaatact gtaatttttt atttaagact gttatatata aattgtgagg 100140
ctaaggaaaa caggtagtg tgatactgat taaaaaaaaa actgattaaa gtaaaattct 100200
taggaagcac cattatttta gtaaacagta atatttaaag atacttaatt actaatgggt 100260
tctgtccaaa ataatttagg aatcttttac catagcagtt aatctgctaa cttgtgttaa 100320
gtgaatagag acctcgaaat gactaaatga caacagaatg cgtggtcaga ggggacctct 100380
aagagggggg cactactatg aaatggctgt aactttgaag ctattcgaat gtgaaacttt 100440
ttccgctctt gcttgttctc cgtaagactc cctcagctct gtgtctaatt ttccccctgc 100500
cccagtgagt gtgggaactg tatcattgat gaacaccacg ctctgcccag tgactctgtg 100560
aatggcacca ttgagagctg ttcaccattt ctgaatttcc tcatttgtct cccatcccc 100620
gccccccat gtatgagtca gcatccagaa tgtcacaggg accctagtgt tacttgtttt 100680
tccttatgtg atactttggg gaccttaatg ttgcttttgt ttttttctt gtgtgatact 100740
ttaagtgcatt ttattagact tgtttggcac attaaaacag tgacctgtca ttctttctaa 100800
gaattttatg acaggtccta gggaatttgg gttatctctt gcttagttta gtgtgaaatg 100860
acaagaatgg tgtcatagct tgagcttgca aactgaggta gactgaaact tcaaaagcaa 100920
agcatgtata tggctctctc cttttataca tactttgcat gtaaatagaga aattcctgtt 100980
ttactagctt aaaaccagg aagagtacct gttgcaaag aagcctgttt tcaaagactg 101040
tagtgatct ctgtcttggc ttaaatttgc aaccagtttt ttgataaaaa atatttgggt 101100
gatttgaaag taaaattatt gtaacatgaa tgcattaaat tctaaatctt tgccaacttt 101160
tattatattg gatgaattgt tatttgacta tttgtaatct gtattataaa tggaaatgtt 101220
tcttcctatt acaagattag ggttttagga gctggtttcc tacataagaa actgccttga 101280
aaaccatttc tttttttttt ttttctttg agacagggca ccctgtctca aaaagaaaga 101340
cttgctctga gacagacttg ctctgtcacc caggctgtag tgcagtggca cgatccgatc 101400
atagctcggg tgcagcctca acctcctgag ctgaagtaat cttcccacct tggcctccca 101460
gattgttggg attacaggca tgagccagtg tgcctggccg aaaccattt ctttagtatt 101520
tggggggatt tgtgagggat tgctaacaag ctgaaatgtt attgtgaaca cttaggcctc 101580
acttgaaaaa tcttctagaa ttgaaaataa caagtcattt gccaaggcta accctactgt 101640
catggccatc tttctttctg attgatctga agctgtatag ttagtcctcc tgggggctct 101700
acgccaagac agtctgaatt tctaggaaaa tctgaatcac tctaccaatt ttccagctca 101760
ccttacgatt cttaaatgtt agcttcaaga ccagtccttt acctgtgtgt gtttatacta 101820
caaataatata ttacatgtg tgtgtgcata tatttgttcc attagaagat tttttcattt 101880
tccatgatag gatttacatt aaatttggag aaagattgaa gaaaaattac tttcagcttt 101940
gtggagtact cttgatctct gaaatgtttg ggggctttat tttgtacatg acgagttagc 102000
agttcctctc aacatggact gatgcacagc tatttgttac aaatagacat tccgtatgct 102060
gacctgataa acccctttac agacagctc ttgctgtga gtaactggaa gtttaccagc 102120
aggtggtttc caccagggcc ggaaaatact gacaggccca gaggagaaag tctgggttat 102180
ggaaggattg agagcaaagg ctgtgattga acgtgcaact gtcattctgc tgggattgtg 102240
taatgtcatg aggctgggtt acatcaatac caaactatgt tgctttccta ggaggtttta 102300


```

agtccctctc aagggaggta ctcggggtat atgctgcttc ctgcctttct tcttcctgtc 102360
tcagttatct tgatttttat gcttattctt atatttacat aagaatggaa tgtaaacc 102420
ttagataaaa ctgtcaccta atgttctgtc atcagactta agatgaattg gtgttgagtt 102480
ctcagagtat agttctgtag tgtgaatccc tggtcatttg gtagctaattg cttaacctgt 102540
tagccccagt ttcctctctt aaaatgggaa caatgatagt acctatctat ctgataggat 102600
tgtgaggata atccattgta agtgtcatta ttatgatcat cattatctag ttgtatccac 102660
agctttgctg cttttttccc cctaaataga tggcatgatt aattgtgggc aatgacttca 102720
ttttcctact tggagaaaac agttgaaatt ctagtctccc tttcattgct tatttatgat 102780
agacttgctc tcatagggtt gctgggtgat gcaccagttc aaacatttta gatgaagggt 102840
tataagaata tataactgtt tcagatatgg ggttatagct aaaacaacag gttcagtgtt 102900
ccatgaattt aaagtaaatt ttgtttagt tttagttgtt ggttttcttt tgaataacag 102960
ccattcactc tcgcaccatg catgagcagc tatattcaga gaaggctcta tgttatttta 103020
tccaataaag cagtttttct agtgtgtctc ctttaacatt ttcattgaat tccatacttc 103080
tggctgggca cagtggctca tgcctgtaat cccaacactt tgggaggcct aggtggggcg 103140
gatcacctga ggtcaggagt tcgagaccag cctggccaac atgttgaaac cccatctcta 103200
ccaaaaatac aaaaattaac cgggtgtggt ggtgggcac tghtaatcca gctactcagg 103260
aggttgagac aggaggatca cttgaacctg ggagatggag gttgcagtga gttgagatgg 103320
tgccactaca ctgcagccca ggcgacagag cgagactctg tctcaaaaaa aaaaaaatt 103380
gtttccatac ttcttaaaat ttttatttag tacattctgt tcttaggcag taccaagaag 103440
cagtaagggc tatctataca ttgggaaggg ctatacatta tgggttttag agtgagattg 103500
cctggcttaa aaatccccctg cacgttagtt gtatattgta aaattagttc cttaatctct 103560
gtacgcctca gtttccttat ctgtagagct ggagtagtaa tttctgtcct gaaggattgc 103620
tgtgattaaa tgagttactg tgtggagagc actaagaaca gtttctgagt catagtaagg 103680
gcctaataata taggagtgat tactaagctt ttggtcttta ttatgggtgg gcattgaacc 103740
cccccttca tttttttgtt acctaatcat tttaaaacat ttcagaaaac ctgtgtgaac 103800
tggagtattt aggatttttt tagatgtctt tacgttttaa ttctaacact tcaaaataac 103860
atgtttaaaa gttatgcaat cgcagtttag cttctgaacc cttctgccct ttaggcttgt 103920
taaacaatga ttaaaatgtc atctctgaag gtaccactgc ttagagttct ttaaattgtca 103980
cagatctttg catgtcagat aattcagaaa agcaagcagt gtcacattac ctcaatgggt 104040
ggccacaggt tatttcacag cttgtagtct ttcagttcct gctttattct ttctgtattt 104100
tttactcttg ttcttacatt tccaacctga aatagaaaag ttcattgttac aagtgtcttt 104160
aaggaagact ggattaagtt cttcaagggc aagggtcaaa gcttagtcat ctgtgtatcc 104220
cagggcctat cctgcacgta ggaggcatag agactgaagg aaagtcatct cctgatactt 104280
gtcttagtct gttcgggctg ctataacaga aatactgtag actgggtggc ttattaacaa 104340
cagaaatcta tttcccacag ttctggaggc tgggaagtcc aagatcaaga cactggtttc 104400
tttgggtgtt gtagaaggcc tgctttctgg ttcatagatg gcagtttctc tctgtgtcct 104460
cacatgggtg aaaggcctgg gggctctctt gggcctcctt tataaggaca ctaatcccat 104520
tcatgaggga ttagtgtccc tcatgacca atcaccctt ctaataccac cccttctttt 104580
tttttttttt gagacggagt ctgctctgt caccaggt ggagtacagt ggccagatct 104640

```

cagctcactg caagctccgc ctcccgggtt tacgccattc tcctgcctca gcctcccagag 104700
tagctgggac tacaagcgcc cgccaccacg cccggctaata tttttgtatt tttagtagag 104760
acggagtttc accgtgttag cccggatggt cttgatctcc tgacctcgtg atccgcccgt 104820
ctcggcctcc caaagtgcgt ggattacagg cttgagccac cgcgcccggc caataccacc 104880
ccttctaata ccatcacctt tggggttaga atttcagtgt atgaatttgt ggtgggggtg 104940
gggacatgaa cattcagaca gtgatgggtc tgttgaagat agaattgatg aaaaattctc 105000
ttagttaatt tagagaagtt atttattttt gttattctga ttaggtagtt aaatttagtt 105060
attttcactc ttagttcctc aaattaagat aatataggca tgtgtttcca aaaacagtaa 105120
ttctgaaaag tccagtatat ggattagctt ctcttacctg taaaaatgca tgaaggaatc 105180
attatatgta tgcttttaata aaccttcttt tgggggagaa taggatggga ataccttaga 105240
aaatgttagg ctattttaatc cttaaagatg cataaacttt tcccaaact tcgtatttat 105300
ttttatatta ttaacaaata ttttaattta gttactcat taattttatt aatattttat 105360
gttttcttgc tgttggaat tatagcgtt atgtgtagta atgaattctt agtaaactct 105420
gtgtcagacc caagaacaaa ttatgcttta gtaaatgagg gccgggcatg gtggcgcatg 105480
cctgtaatcc cagcactgtg ggaggctgag gcaggcgat catgaggtca agagattaga 105540
ccatcctggc caacatggtg aaacctgtc tcaactaaaa atacaaagat tagttgggcg 105600
tggtggtgca cacctgtagt cccagctact cgggaggctg agggaggaga attgcttgaa 105660
cccaggaggc ggaggttgca gtgagtcgag atcgcatcac tgcactccag tctggtgaca 105720
gagcgagcct ccttctcaaa aaataaataa atacatacat acatacatac ataataaata 105780
taaataagtaa atgagtctga tttgtgctt tcagtttttg cattgctata aagaaatacc 105840
tgagactgtg tagtttataa ggaaaagagg ttttaattggc tcatggttct acaggatata 105900
caggaagcat ggtgctggga tctgcttctg gtgaggcct cagaaaactt aaaattatga 105960
cagaaggcga aggagagccg gcaagtcaca tggcgagagc aggagtaaga gagagaagg 106020
agaggccca gacttttaaa caaccagatc tcctgtgaac tgaatgagaa ctactcatc 106080
accatgggga tgggtgctaag ccattcctga gggatccatc ctcaaatcc agtcacttcc 106140
cagcaggccc caccaccaac attgggaatg acatctcagt gtgagatttg gaggggacaa 106200
agatgcaaat catatcggtt actgagttaa atgaagggtg cataatggtt ttcctctatc 106260
agcagtgtga ttgaagaggg caggcaggcg tcaagcctga aggaggcat ttgtggtggg 106320
atgtggaagg agaaacacgt attacagaca tttaggagat agtcatgact tgtgaccaat 106380
gagaacacac tggatgaatg tttccctaag gtggatgaac tatagtgtct tagaaaaatg 106440
tttgtcttat aacaaaattg acagcactaa acatttttac tctctgtctc ttaattgtac 106500
aagcattaag agtaacaaat atgggtttta aaggcaaact ttttttttta agtgagtatt 106560
ttttcgtttt cctcaacttg ggtatttctt ctccataaag gtgttatatt taaattatgg 106620
aacaccttta tggatgcttt atatatgca ttgtggagcc agtttttaac atctgttttg 106680
ttatctttct agctatagga gtgtccacat cttcacttta tttaaaaagc tcccaggtat 106740
gtattagcag attattatct ctgttccaaa ttgataagaa gaggaggcct agcatcaagg 106800
gaaaagtctt tgggagtga aaaaagagt gaaacttaaa atataagccc ttttcttggt 106860
ctatcttcta gtgaaaatgt tattctgtgt tagagaaatg accagatgaa ttttgtttcc 106920
tgtttcgttt tgcagttctc attaaagtgg gtatacacat atacttatct catgtaaattg 106980

tcaaactggtt tgtttgttct tgaagtgcata agtcttttaa cagttctcct cggttgatg 107040
tttgaagatc atttcggtat gtcttatgct agatccagca atgtcagttt ttgcctgctg 107100
cactgtggta ccctgtggac aaaacaagta taaatgggcc agatttatga tggtttaaga 107160
ttgttcaact ttacggttgt ttcgtcagga tgtaactcgg tcgcaggtta aagagcatct 107220
gtacttaggc aatgagagaa ctgaacttgt gttctgttga ggaagagtaa tctttgcagg 107280
tagtataatt aaatgtttaa attgtctttg agtgtaagct tgaaatagtt ttttgtttgt 107340
ttgtttgttt tgagatggag tttcactctg gttgccagg ctggagtgcata atggcaggat 107400
ctcggctcac tgcaacctcc acctcccggg ttcaagtgat tctcctgcct cagcctcttg 107460
agtagctggg attgcaggca tgtgccacca tgcccgggta gttttgtatt tttagtagag 107520
acgagatttc tccatgttgg tcaggctgat cttgaactcc tgacctcagg tgatttgccg 107580
tctcagcct cccaaagtgc tgggattaca ggcatgagcc accgtgcccg gctgaaatag 107640
ttttttaaaa atgttactaa aatataaaaa aaagcgtggc actgtcaacc catgagttag 107700
aaataaagat ccaggattaa attggttaatt ttattcttag ttaatagtca agacagttct 107760
cattctgtga gtcaagcact cacctgttga gtgacatagt tcttgatcat atgcccagg 107820
aaaaggacat gtctaacatt gcagaatttt aaaactgtgt attaacagtg gtttgtatcc 107880
ttttgcacat cagaattacc tgggaacgta aaaaaaaaaa aaaagtttaa aagttgatat 107940
ctaggctagt ttagtgaat tgtcacattg ttgagcacag gggaatggc agattgtagg 108000
gactgggcat gagtgatttt taaaagctcc caggccattc gaatatgcag tgaggttgag 108060
aagctctggg taacgtaacc ctccaggacag ctcaagaaat tctcgtgctg tgccttccca 108120
tgtacattgc agtgcacatg ttgtgtacct gtggctgttt ttcaggttca tcttcttttag 108180
taagtttggc agttttgtaa agtgtctgaa gatcttttat cttgtattct tatgcatatt 108240
aagtaaaatc tatgtttag ttgactttac tgaacctatt aaaattgttt tttagctttg 108300
gttataagct tctaagtaat aaacaagaaa cttcagaaat atgagttact gctttcagca 108360
gagtacagat ttattttata cttaaatgta aacacaatag ttcacgtgtg tttaatgaaa 108420
ttcgaagttc acctatgttt aatgaaattt aaagttgatt ggaacaggta tgattatgca 108480
gagtggacag agtttaaaaa atgagatgag aaagctgggc gtgttggttc acccctgtaa 108540
tctcagcact gtgggaggcc gaggcaggcg gatcatttga ggtcaggagt ttgagaccag 108600
cctggccaac atggcaaaac cctgtctcta ctaaaaatac aaagattagc taggtgtggt 108660
ggtgcacgcc tgtaatccca gctacttgag aggcttggg caggagaatt gcctgaacct 108720
aggagatgga ggttgagtg agccaagatc acaccactgt actatagcct gcctgacaga 108780
gtgagaccct gtctccaaaa aaaaaaaaaa aaaaagttag gtgagaaaat aaccatctta 108840
aaacttgcca cttttcagaa gctgataagc tactgtgaac cctgtttttg catgccttta 108900
tgaaagaatt ggactgggac tttggcttcc ttctttgttc ccttctaata ctagttcgaa 108960
cagtgtaggt cccagaaaat ctttttggtg cttgacttgg gtgggtggc cctatagtat 109020
aggaattcag tatatgacat tgatgtcaga ccctcaagat tatcaacagg tagaatcttg 109080
gttctcaaaa tgtaacataa accagaatca cctggagggc ctgttaaaac acagttgctg 109140
gttctacccc caggatttct gattcaggtc tggggttggg ggggccagag aatttgtatt 109200
tctgagttca ggggtgtact gatgttctta cttcaggagt tctgagaatc atggaggtgg 109260
agatcgttgg ggttggtgac atttggaaga gaagggtatt tacagacatt gtacccttaa 109320

```

atgaacaaga aggcctctcag aattaagttt ggtcacacaa tggacaaaag ggaaaaaaat 109380
taaactctaga tgcagaaaaa taagaaaaat tgacttaaaa attattattt gtaagctcaa 109440
agctagaatt ttttcttttt gaaatttttt tcctcccttt tctacagttt gaatgaattg 109500
aggtttgaac cggggactct aattttcaaa ggatttgttt gtagtcattc agtttacatt 109560
tcctaattca gttgctaatt ttattagggt cctaatttta ttaggaactt acttttcttc 109620
actgtgcctc agtttccccg tagtaagaat atgattgcta gagatatcat caggatattt 109680
taaagtctaa tgaataatat tgtgtagtat ttggagatca ccaagttagg aaacttaaaa 109740
atatgaaaaa tattctaaac agatatccca gattgtgttc aagtaataag tacatccctt 109800
tttccctgtc aactgggcca cagtaaaaga agaagccaat gtggagggtg aaaaaaaaaa 109860
aaaaatagtg gaccaatgtg ggagttggct tcattttgta aagtattgta cagaaatggg 109920
aatgttttaa agcatgaaac tggtgagaaa ggaagtgact caggattcaa aatagatagg 109980
actccacacc agtaatgatc tggaaactgag gaacattgcc tacagaagag agaagccatg 110040
agagacagtt gaggtgagtg aattggctcg atagaaacat ggaaaatgga attacacttt 110100
tttttttttt cctcatgtgg acagggacta ttgtagaaat ttagaacttt gggccctgtt 110160
taaaaaaatc tatttcaagg gtcaaattgt tgattgccag actgattatt attagtaatt 110220
acaggtacag cgctgtggat ttttctcata gtgtctgagt tctgctcctg ttcagtggtt 110280
gagttcattg atcatttttc tgctcctcat tgcacctgtc atgctggtaa cagcaattaa 110340
cattcctcag aagcgaatag aatgccaggc tccatctcag atgtaactca agaacaacag 110400
gtgcattcta cctgtttctt ggctataccc agagtagtta gaaggcaagt aattaacat 110460
agaacagact ttgaagaaaa tgagattctt tagaatttga gccaaagtgc tgaaaagtag 110520
ctctggataa tgtatttagg agacatagga aatagctcaa caggaagggt gaaatagcct 110580
taccagtctg gcctctttaa atttgtttca agcctgtttc ctttcattga taaaaatctt 110640
attaactctg caccttccac agacgttttg tttgtgcag cttttttttt tttttttttt 110700
tttttttctg gatttgtttt tatgaagttc acatgaaagg tcattggact tgaatttata 110760
ctgtaaaaaa caattaatta gattctttaa ttttcttctc ccctttaagt gaaaacacct 110820
aatgaaactt tctggctctg agaaaaggaa gaggggtccc agatacaggt ttaaattcct 110880
taccatttag tctggttcca ttgatcaggg gtccggtttt ctcaccttaa aataagagga 110940
ttagaacaga taacttctaa aattattttt accaccattt ttctctttct ttaattcctg 111000
tagagttctc tgcagtttgt atgtccctaa ttttttgaaa atatgtaaag ctttacttac 111060
ataggttcaa gtgtgggcag atttcaagag ctttaattat taggattttc tatttgaaag 111120
tgagacatta aattatcatt gagaccttac ttaggtcctt acataaattt ctctaaaatt 111180
ttattagtat atgttaatct tgagtagtaa caacaggaaa gaaaattcgg tgtgattttt 111240
cttgttttta taattggtac tttaaaaaag cttgtgtgta ctttttgat gtcagggtgtt 111300
ttttttgttt tttttttttt gagacagagt cttgctctgt caccaggct ggagtgaagt 111360
ggcgtgatat cggctcactg catcactgca acctctgctt cccaggttca agcgatactc 111420
cagcctcagc ctctgagta gctgggactt aaggtgccc cgcgtgtgcc catctaagtt 111480
ttgtattttt agtaaagatg gggtttcacc atattggcca ggctggtatt gaactcctga 111540
ccttgatgat cacctacctt ggccctccaaa agtgcaggga tttcaagtgt gagccaccgc 111600
acacagccat gtcgggtgct gtcactggtt gttaatcttc gctgcatgtt tgaattgcta 111660

```

gaaatttttta aaaaatactg atgcgtgggc cccaccttca gagatttaga agcaattatg 111720
gggtcccaga atattttttaa agatagtgtt gttataagta tttcgtttac attgcgcttc 111780
aaaaaaaaatt tggatgaattt aacttttatg cctaataattg aaggttttga attatttgtg 111840
agcgaaaaaaa actctaaaac atagagaagt ggtaccttct catttaaggt gtactgcctc 111900
agctgaagga tgtttgtgtg tcttgactgc ccatccccc tgtgtacacc tcttaccac 111960
tgagctagat gggatggcct ttctgcttgt ttctcatcta tggggcatta catatagttg 112020
tccttttttga gttgtttttt tagggttatt tggatatcatt ttgtcaaadc tatgccactg 112080
attttttaaat gcatcattat tttttatgtc tctacaaaag agaaaacacc accgattaag 112140
ttgacttcct ttttcaggag atgtgaaaat gtgaaaagg tacttggaat cagtaaaata 112200
tgcttataag tttttattta aaaaaagttt gtgggtacat agtaggtgtg tatattttatg 112260
gggtacatgc gatgttttga tacaggcatg caatgtgaaa taagcacatc atcgagaatg 112320
gggtgtccat cccattcttt atccttcaag tttcaaataa tccataaaat acactacttt 112380
ttgttttttct catctagata ttaagctttt aaaaatcaca aatctacata ggggttttttt 112440
tttctaattt tgtgttgcac aatcattttg tgtgtatgaa aaaattgaga tagcttttcta 112500
ttcagtctcc ttctcagttg tagaaatatg actaatttgt ttaaacaatc ttgcttctaa 112560
atatgccctg gaggacttac atacaagtca taatcttgtg atattctttg tttgttttaa 112620
cttctcacaa cgtctttgtc tcattatgct gaaagcctta tttatttgtg tgtgtgtgca 112680
tatgtatgca tatttgtgtg tactcatata tatgtatgca tatttgtgtg tactcatata 112740
tatgtatgca tatttgtgtg tactcatata tatgtatgca tatttgtgtg tactcatata 112800
tatgtatgca tatttgtgtg tactcatata tatgtatgca tatttgtgtg tactcatgca 112860
gacacacact ctctatgtgt gagtgtgtat gttggccagt gctaccactt gcgtgtgttc 112920
tactttgtcc aaccttttgg taaaatctac actttgggtt ttaaataatt ttaaggtttc 112980
cattgttcac gtgtttgtct ttgtagcgtt atcctattaa aaactatata acccagttca 113040
gcaatctaaa tgtgcttcta actttatatg gaaactattt agctttcttt actcaccacc 113100
tcccctactc cactccctac tcccccaacc tctttttttt tttcctacag tgtaaaccaa 113160
gtgttaacct ttggatctag cccatctgca tctagatact tcacttgcac aataactaat 113220
ttaaatattat tccagatgta taagaagtat ttgagatttg gtagttttta ttttggaat 113280
gcttttaaaag tgttatccga gattaatagg ctatttttct tccatgaaaa tgtatattta 113340
tttaaaacct gtggtagctg attaaacttg aaatacccta agtcctcatg taatgttgtc 113400
gataggttct tggaaaactgt aagtgaagct ttaagtgaac catataacag gtccttgagt 113460
tgcgttgttt ccttggacgt ggatttggtt cagcactgat gaggggaaaa actgttagcg 113520
ttattttcact caaagttgca gcttccaaga acccatggat gacattaggt gagggcttac 113580
tgtattttctc tggttttcag taagttaaaa ggtagcagaa tttcatattt tcattctccc 113640
catcagtaga ggagctgggt atatccactt gtggatgcgc agtcccagtc tgatggccag 113700
gtttgatgaa ttggccgctc acttttagagg ggctgtcagg tttcttcatg ttcacaaatg 113760
actggaaata aaaaggaata ccttttacgt cgccagctct ctaaataact atataacatt 113820
taggtttgct ttggctgcca attcctcttc acaaaaatca ctggctctgt gtggttttct 113880
cccttttctg gttcactctt catacccata ttgctgtaga cccctcttag aagcctcacc 113940
taccctactc cccactcctt ttgcatttgg gtttctgtgt gtatgtatgg ggtacttaac 114000

tccttctaag tagtagctca gggcctggca aagttgtcag gatttaggat gagactgcct 114060
ttgctgtgtt tccacagatg tgttgcgttg ctctctgtcc attctccatc cagtgcccat 114120
tctccgtacc ctctccatg tccttctcca tgtctcaac tactctctgt cttcacctcc 114180
cgtttctgt ttttctcctg tttctgctac tcatattctc catgggaagg gctttttttt 114240
tttttttttt ttttttcccg cttttcaaac ctgggtgttt tgagagaag gttttgacat 114300
tggggctatc ttttaagaag tccttcccct gatagcagag gggaacgtgc tcaacttaca 114360
aagtttctga gaaaaatcac acttcttctt ttcacaggac ccctgtttga aatttgcaac 114420
aaattaaacg cttaggaatc ccaggtgcac aggagccctg ctgtttcagt gcattccctt 114480
taatcatgtt ggttttcttt tttttttttg agacggagtc tctctgttc gccaggctg 114540
gagtgcagt gcccgatctc agtcaactgc aagctccgcc tctgggttc acgccattct 114600
cctgcctcag cctccccagt agtgggact acaggcgccc gccacctgc ccgcctaatt 114660
tttttttgta ttttttagta gaaacggggt ttcactgtgt tagccagcat ggtctcgatc 114720
tctgacctc gtgatccgcc cgtctcgccc tccaaagtg ctgggattac aggttgagc 114780
caccgcgccc ggccaatcat gttggttttc atgaggattg attttgact cactgggcca 114840
gccacatgaa atgtggtatt gtcattgtct ctttgtacaa aacaattcat ttgctgattg 114900
tcatgaatcc atcctgtgag gtattatgat gacatctggc atgccttctt tgtttactgt 114960
gtttactgta tgtgtttaga aggaaaaagc ctgtagtac cactttcctg tgtcgccccc 115020
tgggtcaggc tttccatcct gactcatggg tgtcgggact actagattgg ttgatgggt 115080
gtgcagaatt tcctctgtcg ggcttgggag ccagaaagcc acgatgaagt ttgatttggc 115140
ttgtggcagc cttttccaaa tatgaatttg gatacagtac agtaagtcct ctaagaaaag 115200
gagaagaaga gaaaataata actctagagc tgggactatc tggggaacac tgaaaaacgg 115260
ggaaaatctc aaagatagta ttctgtgtct ccctgagct gctgtcactg tgggtgctcag 115320
aggccagcct ttttttccaa gccgagcgt ccctgaactt gggagaaacc acagaggcgg 115380
cctctgtcct gcatgtgtg cactgcct tgctccagac tgtcttgaat gtgacctggc 115440
agccagtgt gtttctgtg gacgtggcct ccacaactg agcagaacag agccacctca 115500
gtgtgctgag gaaggagcga gctgggggca tgaatcacca gcgggatacg gaacaaatga 115560
agaggggaaa ggcctaact gttcaggtt cctggtagct atacttaaaa gacacctttc 115620
ttatagaaag gaaggaggag gaagaaaaac aggagtgaag aatgcctcaa gagtcaaaga 115680
gtgatttggt tggccctagg aaggatttct tatcagcagg agttaccttc tggggtaaac 115740
cccagtctgc gccagacatc tgagaggaat gctttgagga ggccagactg gcctgtcgcc 115800
ttcacagcca cactgttgca caggttggtt gtgggtgtga gctcttagcc ctgtcctgca 115860
gacaggtagt aaagaaacaa aagcctaaac caaagacta gagtttgtgt cttggtggaa 115920
aaagtccct caacttggt ggaaccggag aagaggactc tgagaaactg ctcaggagca 115980
aatcctgtgg ctagttttc ctgtcaatgc tgtaacatcc cactcgatgc tcaatatgca 116040
cttgttttag ccactactga atattttttg agtttgctta tttgaagagg tccagaacaa 116100
ctcctgtta gtgtcttcta ataggcccc aaaagtatca cagaatttta gagtगतg 116160
ggactttaat ctgattgaga tcgttagtgg tttcttcttc ttctttttt tttgagacag 116220
agtcttgctc tgtcgccagg ctggagtgc atgttgcgat ctcggctcac tgcaacctct 116280
acctcctggg ttcaagccat tctcctgcct cagcctccc agtagctggg actacaggcg 116340

tgcgccaccg caccagcta atttttgtat ttttggtaga gacgggattt caccatgttg 116400
accaggatgg tctccatctc ttgacctcgt gacccgcctt ccttggcctc ccaaagtgtc 116460
gagattacag gcgtaagcca ccgcacccgg gctgtggttt cttttaagaa gtgatcgtag 116520
aaccttgtct tcagttactc ccacctgaaa acccactgta caaaacatgc aggcgagggt 116580
gactgagggc agagaggctg gagcccagct gctcatcttt cttctagtgg tggccctgga 116640
aacttccccct gaccgctctg cactccagcg tatttaattg agaaaccact gatcaaactc 116700
acttccttaa ttttataggt gaggggaattt tacctttggt agggtcacgt tgtaggtca 116760
ttatggtaac tttcaaggtg cctgggaata aaagtctcat acctttaatc tgtctcctgc 116820
ttttgagcct tcgtgatctc tccgggagct gcagtaatgg cttcccatcc tgcgtgggaa 116880
gaagtggggg gctgggtggga taagtggggg gctgggtgat tactccacgt gttttaggt 116940
cagagagctg gaaaccacag agaacagccc aggtggtttc attagtccag gtgtgagatc 117000
acgggggggtg gggggcgggg tggcagtagg attggagatg gagggaagct ttgaaaggag 117060
cccttagtac ttttaagatat ggtaagttt ttaagttaca gaaactggat atggaaaatt 117120
accaagagaa cttagtcgaa gatgatcctc aaatacccag ccaaggccat aggagaaatg 117180
tgagagactg ctgacttaga tagtggaag tctttctcag ttttctctgc tttaaacttc 117240
attaagtccc tctcatgggg agtcttcttt ggagatagca aagcagtttg attccttgat 117300
tctctttgct gctgtggcat cccaatctga ttgttgaaat attgttggtg tatggtgtaa 117360
cccttagttc tgggtgtgtc ttgatctaca caattcactt gcatttattt tctggattgc 117420
tcagcttaga ttatggaaca aaaccaaggg agattcaggt ctgtcatact gacctcattc 117480
ctggttcagc actgactttc ctgcatagcc tcaagtctag taggtaggtg aacttgggat 117540
tacatcatctt acactggcca cgttttccag tgttttcccc tttcttgga gctgttttct 117600
cctgttgctc ccttgtaact cagtcaacag aagcctctgc ccagggtaaa caatttccta 117660
agaaaagcaa gcaaaatagg agtgaatgga gaggatggga tattaatat gtaataggtt 117720
tatttacctt ttcagtaaag tcacttgatt tcctttaag aggccttgat tttcttgga 117780
catgcattgg tggaattaga aagttacca catcatttat ggtattttgt tgtaggtt 117840
gtaggctgga tttgtacttt gtcagggcct agaaggggag aaacagcctt atctgttaat 117900
cctgttgcat tggcagaagt gttgtatatg tagctatagg ttcttttctt caactcatac 117960
tggaaaaaaga aaaaaaattg cccagagact ctttttctaa atgtttttgt gtaaatctgt 118020
tcttcaaata caactgtgag taggaggcca tgtcagtggg ggggtgatcat tcttttgtgt 118080
gatggtaatg agataatttc tgcattacag attttcagga gactctttgt ttaaatgaaa 118140
cttcggagcc ctcacaaaag ctcacaagtc tctttgcctc attaaaaaag tttttattaa 118200
tctcatatgt tttgccatca tcaattgcat aaacaaataa aattgttttg agcaatagaa 118260
ctaaggctgt cgtttgttg gcatcttgtc ttctctctc ttctcaaat ataatttgac 118320
aaaatctggc tccgagttgc tgttgagct gttgtacca ccattagcca ccggtccaa 118380
gtggcttccc tgccacggcc acgttcactc tggctctgga tggaggcgag aggaagtgtt 118440
cagatttgtg gcaggacgta gccaggcagg ttgctgcctg aaggctggca gcctctttca 118500
catgggctgg cagggatctg cagccagcaa gctatttccg ttacgttgag tgaaggaacc 118560
aggtaggcct gaggggtgtc agttgctagc caagatcttg aacgtttctt tgtatgtatc 118620
ctttgctaata tgaacctgca aaacctaac atgaaaggga tctacagaga aaagtggcta 118680

gtgctgagtt ttgaagtcct tttttttttt ttttctccag tgcctgctct ctaaagcaac 118740
tagtatattat ttggftaaaa agcagctaataa taatctgttt gatcttgatg tggaaatgaa 118800
ccctatcgaa ttccagggtca aatcactttt ccttgtagaa tgttttttta accttttgag 118860
gtgtgtttca tcagattatg gactatcaga agtttacttg tcctcagtat tccggctctgc 118920
atgggtgacgt ggctattgtt ctaataataa tgcttttaag tataaaccta attttatcta 118980
cataaagaaa agtcacattt atcaacggac tgtgaaaagt tgtaagggga ctgtgtaact 119040
taattataca agcagtgtca tatatggcag tattcttgaa aaataccttg ccatctggtc 119100
ccattttatt gagatgaaat ctgttaatat ttttcctttt ctcttcttat gtttactaa 119160
gctgccagct aatattattt tccttatttt aaacatgaag aaacaaaggt ccagattggc 119220
caactaactt atgcaaagta gtggtagagc cagaatatga actcaagatg gtaccaaagt 119280
tcctggatatt tttttttcca acttttattt cgaaataatc atgaattttt aaggagtggc 119340
aaaaaatgtg cagggaagtt ccatgtatct ttcacttagt tttacctcat ggtaacatct 119400
tgcataacta tattttaata tcaaaactgg gaattgacgt gagtacaatc cacggaactc 119460
attcagattt gtaataatca ctacatcat taaaatatgg aattgttcta gcacaaaag 119520
gctctcttgt gctagcccat tatagccact cccctttctt cccactatcc ctaactccta 119580
gtaaccaccc atctgttctc catctctaata tttatttcag aagtgtcatg taagtgaat 119640
ctcacagggt ataaattttt gagattggct gttttctcag cctaatttct ttgagatcca 119700
tttgttttgt gtatcgatag cttatttctt atattgctga gcaggatttc atcatatgca 119760
tgaatcagtt taactgttga aggacatttg ttctgatttt gcaacatgac ttttagtttt 119820
ttgggataaa tgacttctga ggtctgaatg tttgtgttcc cccagaatgc ataggttaaa 119880
acttaacctc caatgtgatg gtattaagag gtggggcctt tggggagtga ttatatcatg 119940
aggactcagc ccttattaat gcaatttggt ccatcataaa agagaccaga gggaccttgt 120000
tcactccttc tgccatgtgc agacacatgg aaggcaccat ctatgaggaa tgggctttca 120060
ccagacattg aatctgctgg tgccttgatc ttggatttcc cagtctccag aaccatgagc 120120
aataaatttc tatcatttct aaattacctc gtctgtggta ttcttgttat agtagcctga 120180
atggactaag acagtaccca acagtacact gctatattct attattataa ttgaatgttt 120240
agttttatga gaagctgaca gaattttcca gagggttgt accattttat gtttctatca 120300
gccatgtaca agtgatcccg attctcttca tccttgctag cctttgggtc gatattttatt 120360
tttaattgtc actgtggcct tggtttacct ttcttcagtg gctagtaatc ttgagcatct 120420
ttcaatgtgc ttgtttgcct tctgtatctc ctctttgatg aaatatctct ttgtttttcg 120480
cccatttttt aataggattg tttgaatttt tttttttttt aactgctgag ttttgagagt 120540
tcattatata ttccagacac aaggcctttt ttggatatgt agtttgcaaa tactttcttc 120600
taggctgtag cttgtcttcc cctcctctaa caggttcttc tgcagagaaa aagtttttca 120660
ttttgatgat gtccagtttg acaatttttc ctcttatgct tttgggtgtga agtctaaaga 120720
cctttgtcta ctcccagact ccaaagattt ttttcctttt tgttttccct acaagtttta 120780
tagttttaca tggaagtcta tgattaattt tgagtaaatt tttgtataat gtgtgaggtt 120840
taggttgaaa ggctcttctt ctctttctcc tcctttcttc ctcccatgtt tctctccctc 120900
ctcccttgct ttctgtccc tcctctatta atgtccaatt gctctagcaa tatttttagaa 120960
aagactgttt tcctcccttg catcactttt cacctctgtt aaaaatcatt tggggctggg 121020

cgtgggtggct cacacctgta atcccagcat ttgggaggct gaggcaggca gatcacaagg 121080
tcaggagtgc gagaccagcc tgaccaacat ggtgaaaccc catctctact aaaaatacaa 121140
aaattagttg ggagtgggtg cgcattgcctg taatcccagc tactcaggag gctgaggcgg 121200
gagaatcgct tgaacccagg agtcggaggt tgtagtgagc cgagatcacg ccattgcact 121260
ccagcctggg caacaagagc gaaaccccg ctaaaaaaa aaattatttg ggtatattgg 121320
tgtgtgtctg tttccaggtc ctctgttccg ggcttgggtg aactgtgtga tctctgtatc 121380
cctcctccca caccacattg tcttgatact gtagctacac agtaagtctt aacattgcct 121440
cctgatattc tctaaagtaa atattatctg agatatttag gtaaataagg acccgagaga 121500
gatgccagct ctctgtaaac tgggtgcctat aaccaagagt tatttaggag ctttggttca 121560
tctccagctt attctgagaa aatcagtagg aaaaccacaa agtaagtatt cagaaaagtg 121620
aatatgagtt aagtaataat ttgacttgta agtctaaagt tctgtacagc tgtctatgaa 121680
gactggattg ataataaggt ctagatcttc gggtttgttt gggtttgtta gtaatagcta 121740
ttgatgatca aaaaatccat atgagcaaaa ggtttaagaa aaaggtagat tctggattca 121800
ttttaaaaag ttagccactc gtttgcgtat ttaagaaat ctcacctgct ttactgaagc 121860
cttatatata ttcttttctc ttaagataat acagatactg caccatttta gacttagaga 121920
ggcggttagag gtcaattcat ttaaccatca cattttacag gtaggaaaat cagggccctt 121980
ttataaatgg gctggcacat ctgcagattg tcctgggtcg ctgggaaggt gggggaggct 122040
ggcaggggtt gaccagagtc agtctacca gtggagactg tcagccttct tgcctggctg 122100
taagcctgtt ttactcttt ttcatctggc atggtcctga agccaagggt agtggtaggc 122160
attactacta cacagtacta cacactatac aaaactatgc ctctttccag ctccctggaa 122220
taggaacctg tgttcataga cctttgcctg gaatcagact gaaataggct gtgctcactg 122280
ggccttgcct attgtggatt ttggcttccc acttactggg gtggagctgt ctcttgtgcc 122340
tcccagggac tgactttgca tttcccttgg ctccctctcc gtggctttgt tcctcatttt 122400
catcaccagc ctgctgctag gactggctct gctgtgggta tgtaacatc ttctaagggt 122460
tacaccccaa ccctaagaag tcatgttaaa tcttacagaa gagctactaa caatcaaggg 122520
catgaatatt gctttctgaa tttactaat attggccagc tccttttaga gttgccctga 122580
aacagagaaa tttacagcca actgtaaatc agaaatgtca gtttgggcca gtggagcaat 122640
attaatagat taatagatta atagcaagat taagagaata atctatatgt attttaaagt 122700
atactaattc ataaataata gaattaaact tttattgtta taatattggc ttttggttat 122760
ttttatcagg ttttaaaaaa aaagatgcta cataatagca aattattact aaacatttat 122820
attggccaca actgtcataa atccagagta atggaaggaa ttcctatttt tgcctttgga 122880
ttttatttta tttttttgt ctgcaatttg ccattgaaag aatttttgtg aactttccaa 122940
tatgcatagt atatatcaag atacaataaa ttcaaaagaa ataaaagaaa aaagaaacag 123000
tataagatta ccaaaaaagg agtaattttg atttttactt ttagaaagtt ttttttttaa 123060
agtcttattt ttgtcagtg ctattcttgg tatgttattt ctgtaatttc ttggttttgt 123120
tcattattaa gtgttatata gaactgtcat tagaagcagg attgaacccc attggaagtg 123180
ttttaatttc acgtctgaat ttgagcaggc tgttgaatat tggtaggatg gaatgtgaac 123240
tgactgatcg cttttccaat cctgttattt tccagtgtgg tttggaaaaa aatctctaca 123300
tatgaagtca agaaagcaca atgaagcctt ctggttaatg aatttagtga gtttcagatt 123360

```

ttcctctcat ggagagtcct ggaaaatcac ttcagaaaag agtgctgtgg gtcacttata 123420
gaagaaactg ctttgcata gaataatgatt tagagcattt taaaggctaa catggattct 123480
ggcacagcct ctgatggata gaatcaaaac cgattgatta ctggaccaag aattggaaac 123540
aaagccattt gatacagctt ttaggtttat gactagtcag tcagatccct ctcagacgta 123600
gctgctgaat gtagaagttc actggacaca cgcatgtatt taccaaagcc tgacaatgtc 123660
tgagactgtt gtgccttgac tgtggcagtg atcacctgta atgcaatttt tcataacagt 123720
tttgttgagg tataattcat ataccataca attcacctat ttaagcatac agttcagtgg 123780
tttcttatat tgtgcatcca tcactacagt cagtcttgaa gtattttcat cacctacaaa 123840
actccatacc cattagcagt taccctgat tccccacat ctgcagcact aggccaccag 123900
taatgtacct tctatcttta gagagttgct tattctgtct ggacatttca gtggaatcat 123960
atagtatgtg gtattttgtg attgtcctct taggataatt tgtgtgtgtg tgtgtgtgtg 124020
tgtgtgtgtg tgtaagagtc tctctctctt gccagagctg gactacagtg gcatgatctt 124080
ggcttactgc aacctccacc tcccaggttc aagcaatttt cttgcctctg cttccggagt 124140
agctgggact acaggcatgt gccaccatgc ccagccagtt tctgtatttt tagtagagag 124200
ggggcttcac catgttgacc aggctggtct caaattcgtg acctcagtg atctaccac 124260
ctcggcctcc caaagtgttg ggattatagg catgagccac cgcgcccggc cttttagcgt 124320
aatttttaag ggtatttgta gcgtgtgtca gttcttcatt tttttgttgc cagataatac 124380
tgcagcatat ggatataatca tactttatta atccattcat caactgagaa acatttggtt 124440
tgtttccctt ttttggttat taatactgtt gctatgagca tttgcgtgca agtttttggg 124500
tgaacatata tttttattac tcttgagtat atacctagga gtggaattgc caggccttat 124560
ggtaactata tttaaccatt tgaggaatgg tcagactgtt ttccaaagca gctgtaccat 124620
tttatcttcc caccagcagt gtatgagggt tcctgatttc ttcacattct tgtcaacact 124680
tggtattacc tgtttttttt tttttttttt ttgtgagaca gaatctcgct ctgccccag 124740
gctgggtgtc agtggcgtga tctccgctca ctgcaagctc tgccctcccg gttcatgcca 124800
ttctcctgcc ttagcctccc gagtagctgg gactacaggc acccgccacc acaccggct 124860
aattttttgt atttttagta aaggctgggt ttcacatgt tagccaggat cgtctcgatc 124920
tcctgacctt gtgatccacc cgcctcggcc tcccaaagta caattttaag tgttttttaa 124980
ttcctttgca ttgttgatat ttttctgca ggggatcggc gttcacatac ttaaggaagt 125040
agggcattgt tagccgtgat acggctctat gctgtaatga aattctgtgc taggaccagc 125100
ttgcctattt gtctcttate ttgacttcag atcatagcac taaccaaacc accatgatac 125160
cacaagaata attatttttag aagctcaaat ctaatctttt aaatcttgag acatgtcaca 125220
catacataag aatgcataaa atatatgtat aaggaataat tgtagctggg catggtggtt 125280
catgcctgta attccagcac tttgggaggc tgaggcagga agattgcttg aggccaggag 125340
tttgagacca gcctgggcaa caactctgtc tatacaaaaa gttttttaaa aaattaactg 125400
ggcatgatgg tgcacacctg tagtcctagc tactttggag gctgagatta gaggattact 125460
tgagcccagg agtttgaggc tgcagtgagc tatggttgtg ccagtgcact ccagcctggg 125520
caacaaagca agactgcatc tcgtaaaagg agagagagaa aaaaaaaaaa aaagaattat 125580
aaagcaaaca cccatataac ccaccacat cataaagtag aaatttacag ttctaagtaa 125640
cagttctaag taacagttaa taatgactga aaatatgtta gtactgtaaa ccttaatcat 125700

```

taacaaatta aatcactttt tgataatcat tttccttttc tttgtatcat tttgcttttc 125760
tttatagttt tgctgtgtgt acaaacacgc ctgcacgcac acacgcatcc agccctgcta 125820
cccaaagca tgagggtgaa gttgcctgtt tttgaacttc acataaatat gtattcttca 125880
gtgacttctt ttgtttaaca tttcaaagat attgtgggag ctgttcattc atttttttct 125940
ttttttcttt tttgctactt tttttttcta gttttttttt tttttttcta ctgtcttttt 126000
tgtagttttc tagcttctgt attctcctga tgaacattta ggttgtttct gatatttggg 126060
tattatgagc agggctgcta tgaatattct tgcggatatt ttcaggtctg taagagtttc 126120
ttcaaaatag ttaccaagga gtagaattac tgctttccta tataatgccca gagtctttta 126180
aaaaatgttg taatgttttc tcccacagca ttaccagctt ttggtatgtt cagactttga 126240
gcagttttga cagtctgttg gttgcttctg tagcagtagc tcattgtggt ttaaatttaa 126300
tctcacttga gttttattat tacttttaca ttttcacca gtgcatttgc agttacagat 126360
ttttttattt tctcaaagaa aagtggacat tgggctacct gaaaatcata tttgggctag 126420
tgaaaattca ttgagatagt agcattcttt aggttattct aactgaaaac ttgatctctt 126480
agatgatgag tactgtcaga ttatttttga tcctatggtt ttaatctggc cttatacatt 126540
ttcgtataat aaaaatttaaa atttatggaa ttgcttattt agtttaccag cttgatatgc 126600
tataagcaat aagtctgtag tttgctaata ctgattctaa gcccaatata taaattgtca 126660
tttatttatg gtgaattaag tatttatccc taagaggaaa ttagaacatc tagttcaaaa 126720
tattctcagt attagaaagt aataactata tgttgtgtgt catgagtgt tccagagtgt 126780
catgtgggcc aaagtgtga aagatggggc attttttggc cgggcgtggt ggctcacgcc 126840
tgtaatccca gcactctggg aggccagggc gggcagatca cgaggtcagg agatcgagac 126900
catcctggct aacacagtga aaccctgtct gtactaaaaa atacaaaaaa ttagctggcc 126960
gtagtggcgg gcgcctgtag tcccagctac tcgggaggct gaggcagcag aatgacgtca 127020
acctgggagg cagagcttgc agtgagccga gatctcgcca ctgcactcca gcctgggcga 127080
cagagcgaga ctccatctca aaaaaaaaaa aaaaaaaaaa agcgtacca aaagtcaatt 127140
ctgtatgtca attaatTTTT ttgttggtgg agagggagta ctttcaagga agagtgaatt 127200
aagcagattc ttttgttggc actgggaatc taaatgggat tgctgaatag ctttacattt 127260
tttttgtttt ggTTTTgtaa ttgaatatgt tttataccaa aatatacttt attgttccat 127320
gaatatattg aataattgca atatcttata aactcactct gtattgaatt ttcatactgt 127380
agattgaatt ttcatggtgt actatacaga gtatagaagt gagtttttgt ttttaactac 127440
atgaaatctc agttctaagg tcaataaatt tacttctgtt tcccacaagt aagatcccat 127500
tatagaaatc atctcaaaaag atgtccacat taaagaataa tgtttataag taattaccaa 127560
aatgaaaac tgccagacat ttttacttgg tatgacacga atgttcactc tcttgaattt 127620
tcctataata ttcataataa ttacattaga ttcagaaatt caggaatatt tcaacatata 127680
tatgtactag aaaaatacctt agttatcaga aggattgtt tcattttgtt cttttaacaa 127740
gggcttgttt ttattctttt gagaatattt gtttcttagg taaatgggag ctaatctttt 127800
atgcatgaag gacctaaagc gctctgattt atattaataa atatattgac aatttaggaa 127860
acatagaatc ctttatactt ttctactag agaagaagag tagtcttctg caaatttgct 127920
ttacattggt gaaaaatgtc atcatttcaa agccactcat ttcatctgaa ttatgagggc 127980
caccatctta tagctgggct tctgaacctt ttatttctcc cagtatatat tggactattt 128040

tgatcactgc tatatgcttc tagttgctca atcagtatct gccacagagg aggccctcta 128100
aatTTTTTgt tgaattactt aatgaaatga atgagtgatt atttgccctc acaggattgt 128160
gtgaaaccat ataaggTTTg tagagcggtt tgacctccca ccattgaaat gtccttacc 128220
attacatcc gaagtgattc acttgaggaa tgtgtgtgct tttgtcacg gtctgcttgt 128280
tccagccttg ctggaatcta gatccacgag aatcctgtgt tcattTTTT ctaaagaata 128340
attacgaccg tctaaggtaa cagctaaaga atcgagacct gtaagaactc ttagccaggc 128400
acagtgacct gtgcctgtag tcccagctac tcaggaggct aaggTgggag gatcacttga 128460
accaggagt ttgaggctgc agtgccttat gatcgtgtct gtgcatagcc actgcactac 128520
agcctgggca acatagggag ggagacctcg cctctggaaa aacaaacaac tcttggcagt 128580
ttcctaataa cctattcaaa tagttcagaa tttggcaggg gttggcgggg aggagggtcc 128640
atTTatctct gtTcctgttc atatctttgc cagagaagat aTTTTaaaa aagaaaatgt 128700
tgTTgtcatt tgctTTtcta caaaaagaagc acatttagat agtgaaggaa aggtgaaaag 128760
tattctTTat gccatttaca ttgtctcagt tatcccgata gcaactgcaag gttggaatag 128820
tgactagcct gTTTTataga tagggaaacc aaagctctta aatactgtgt tatttgtacc 128880
ctagaatata cacttcgggg ccgggtgcag tggctcacgc ctataatccc agcactttgg 128940
taggctgagg cgggcagatc acctgaggtc aggagtTcga gaccagcctg gccaacatgg 129000
tgaaactcca tctctactaa aaataaaaaa gttagccagg tgtgttggtta cgcacccgta 129060
gtcccagcta tttgggaggc tgacgcatga gaattgcttg aaccagggg gcagaggttg 129120
cagtgagcca agatggcacc actacactcc agcctgggca acaaaatgag actgtctcaa 129180
aaaaatacat actcaggccg ggcgcggtgg ctcacgcctg taatcccagc actttgggag 129240
gccgaggcag gcagatcgtg aggtcaggag attgagacca ccctggccaa catggtaaaa 129300
ccccatctcc actaaaaata taaaaattag ctggctcgtgg tggcgtgcgc ctgtagtccc 129360
tgctacttgg cagtctgagg caggagaatt gcttgaacct gggaggcaga ggttgaggg 129420
agccgagatc gcaccattgc actccagcct gggcaacgga gcaagactcc atctcaaaaa 129480
aaaagtatat atatgtatac acacacacac acacacacac actccaggag gtttgagtt 129540
tcaactggttc tcccttgtgt cttcgtataa agcatgctgt gctggcacgt ggatatactg 129600
attggTTTTa cTTTTtcta agagaacatg gctggTTaat ggaatctgct gagatttgca 129660
tgtagTTTT accccttcca cagcctataa gctctTTtca ctgcagtgt tTTtaagttt 129720
tctaaggcag gggaccccag cctctgggcc atggatggta cctgtctgtg gcgtgttagg 129780
aactaagctg cacagcagga ggagagtggc aggcaagcaa gcattaccac ctgagctctg 129840
cctcctgtca gatcggcagt ggcattagac tctcatagga gcacaaacc tattgtgaac 129900
ttcgcagtgt agggatctag gttgcagtct cttataaaa atctaattgcc tgataatctg 129960
aggtggaaca atttcatccc aaagccctgc catcctgtca catccatggg ataaattgtc 130020
ttccacaaaa cctgtccctg gtgcaaaaaa gttttgggac cactgttctg agattgtttc 130080
gagttacaca tctctggaaa agtggacata ttccagtggc gtttacctag cagctgtttt 130140
aatgcagtga tgtaggtctt ttctctatac agaacatgct gatgctgatg actgtattct 130200
ttggcagctc atagtatgag catataataa atcttatgta tgcactTTTT accctcattt 130260
tccaaattgt tataTTtagt tagtgaaagc aactagaaaa aagtaaaacc gataccagct 130320
gttatacata ttgccatatc ccagcatgat ttgtcctat gagcctggtg gtcacatata 130380

gcagtctgcc tttcctgctc tcctactcat cttataaaaa gactctacca gattagccct 130440
 attttctttt attctgattt ctgctatttt gaagttgtgg gaaccagaga aggagtccat 130500
 atttctctac cattctatgg cacctttgcc ctagtaggat ggagtagaac tgagctgaca 130560
 tgtcagtggt acgctgggta tagcttctac tgcatgtaag aactgatggt taaattttca 130620
 gactttttct atgagcgggt gttaaacata gtcattgtta aatgttaaaa tataacaagct 130680
 tacaagttaa attatattta ataactgtta ataatatgct catcacttcc tgttctttta 130740
 agtggttgcta tatgtctatg cttttaacgt ttttaacatg tctttgtgat ggaaatactg 130800
 tgctgctgcg tatctttttc ttttactttt tttttttttt taattgagat ggagtctctg 130860
 tcaccaggc tggagtacag tgttgcgatc tcagctcact gcaacctccg cctcccgggt 130920
 tcaagtgggt ctcctgcac agcctcccga gtagctggga ctacaggcgc ccgccaccac 130980
 gcccgctaa tttttgtgtt ttttagtacag acgggggttc accatgttag ccaggctgat 131040
 cttgaactcc tgacctcaga tgatctgcct gcctcagcct ctcaaagcgc tgagattata 131100
 ggcatgagcc actgtgccc gctgtgtat ctttttctaa ttctgcattc catgatgttg 131160
 tgttggtggg ttgaaattgg ccatgggtggg aatttttata ccaaggaaac tggtaaacad 131220
 tacaatccag gtctctgtcc cccactctgt ttttcccagt agagctgggt gatagatatt 131280
 taccacgaca tgcccaatgg gataacctaca aatggggagg cgattgaata ctgccatctt 131340
 ttgtgttggt gggttatctc tatatttaac catagtgaga ggaagaaaga gctaggagat 131400
 agggagacaa cagtgaggaa gaattgaggc acagaggaag gtcttagtat agaaataaat 131460
 cgaactctca taatgtttat ggtgaaacta cgatttggtta gatagttggt gtttttggtt 131520
 attcttagaa agttttaatt agatacacct ttataaaccc gtaattaccc aatacctgcc 131580
 tcttagctaa aagcctttta taataatcat ttagcctttt atgtgtaaatt gttactgcat 131640
 atacgcagtt ctagaataat ttcataaagt tttagggttt ggggggcaga gttgcttctg 131700
 agatgagttt tgatctttca cttattttta gtcacctggt ggtagtctgc gtgtgtctgt 131760
 ataataaata atggagcatt tcataactta gttccacttg tagatacttt tacatgggcc 131820
 tcaactgttt aagagctaag ctagattgct caagtgtttt tccctctcct accttgacat 131880
 aaaagttttg tctgtgtcag acatttgat tttcagccac accccagagt gcatcactga 131940
 tgtttgaggt tcttcaccgg caaggccagg tcagcactca gtcattgtctg tccgaaagg 132000
 ctttgaaccc ttggaggacg tggaatgcca tgttgacctc gatgccaaca ggggcataat 132060
 cgagcccacc agaggagcaa gtgaaggggt tgacctgaaca gggctttgga agtcctgcag 132120
 ccatctgcag aatgatcttt gctgagttag gctgcctgt agaagctaac tggtagtctt 132180
 ggtagtgag ggattggaca gtgtagtcag taacaagata ctaagataaa tgcagggttt 132240
 aactgcttcc tagagtaatg ttttttaagc tggctagttt tgtttactgc aggaattagg 132300
 taactttgtt ggagtgaac cttgaagagc agtggagatg agtcagacgt cctgcctact 132360
 taaccagtat caagtaattg aaaaccactc catggatggg gcagaaaaac cttcatagcg 132420
 ggactgactt tatgatactc atacttttca aagagtgggc tgcattgact tggctctggt 132480
 gggaagcatg cctcctacca gtgagtata aaagctgcac aggtgcctag caggttgctc 132540
 tgctgcattc acttacactg gatgagttac tttgttcccc atttggaag ctgactgttc 132600
 ttattcctgt ttaaacagct ctttataaaa atttttatgt gtctttacat tttatgcttg 132660
 ccacaaagaa ggacattcat cgcttgatta aacttaaaat aggattttta aaactaagag 132720

aacctaaaag tctctcttga tgccaacata tcaatttaag ccactgcaac tgtggtttct 132780
 gtcccgctccc ctgctgtttt acacagaact ggcttcatac tgagggttgc gatttacctg 132840
 tcttctagtga gaactcctaa cattccaatc tattttttgt ttgtttgttt gtttgtttaa 132900
 atttcattat ctgtgttatt taaaaggat attaaaaatg taagcaaagt tcttatcctc 132960
 cctacccccct agtttttatt gaaaatataa ctgtgagccc acaggggaaa attatttcct 133020
 aattgtataa agattcctgc aacattttcc ttccaaggaa tttggcagta cctcctctgt 133080
 tactcctagt tgagtataga atatttgga ttgtggacag gtcatatgtt tgtttctctc 133140
 cttccccctgt gctccccctt gcccaagtca acaagccatg gttgccagga ggctcttggg 133200
 ccaaagcagg acttcacttt gctgtgatag tggttgggga ccaggaagat gagcaagaat 133260
 aaatttgtaa gcaactgaat ttgcaagcaa tgtattgatt gcaaatgaat tatttcttac 133320
 atccctgtag ttgtcccaa tctccattcc aataggatcc ctggagctga ctgggagaaa 133380
 agagatacct gattggtacc cctcctacct gttccagtag ccaggtgggc ttggcagaga 133440
 atatgaaagg ggcatgccac aagtggattg aggtctgggg gaattattata aagaaatagg 133500
 gttgtatatt gtttctactc cttttgcgtg gttgtcttct ccaagctgcc tagataagtc 133560
 tgcagaaggg ctcatatgaa acatgttttg taaatgtaac tttcaggtaa tgaacagta 133620
 ctttcccatt attgagctct ctttttaa atagctagttt gagttgaaat caagacaata 133680
 gatattcatt atgcaaacct ttgagccacc tttatggtat tactgtctta gtattgtctg 133740
 aatgttaa atgtcttctg tttactgtaa gataaaacct ttgtgttcag tcggaaaata 133800
 aagggactgc ttggaggact ttggcagggg ctgcatgatg atatgtggct gagacctata 133860
 taaaaaggcc ttctgtgcag ggtctatgtg gccctacaaa ggcggtagc tgagctgaga 133920
 ggggaagcct acagaaatgg aaagtggagg ttctgtgtc cattatttca aactgaagtt 133980
 gctcctttat ttagaaaaca aagcaacatg ccagacaagt acataaacat ttcattgta 134040
 tatattaaga taggcttga aagtgtgat ggaggcttta aaaacacctg gttcaaaagc 134100
 atgtatttat ctctctgaa attaaactgg gttaa atgtc atttacagtc tagtgtgcac 134160
 acttcttatt tagcacaata tcccacttca ttttgtttt ttcctttttg tagatgtggc 134220
 acatattact actggaaact ttgatgccta gtattttttt ctctattctt tttgtaaaag 134280
 aatgggatat ctttttaaaa ctctgtttgc acacaggcat aaacaggga cacagtattg 134340
 atggagatgg ggttggggga ggttagagg gaggaattgc attcttttg cattcctgag 134400
 agggaaacag ctgtattaac gttttttttt tttttttttt tggaaagtgc agaggcatct 134460
 cccctgactc tcagaattcc agttctttac agctgagcac aaacagcatg gcatattatt 134520
 tatgcctgga gtcagcatgc atgaatgttg cagttctgat tattagccaa gagaaaacag 134580
 ctatatacat tactaatgga aggactttga aatgaaaaaa aatccaata gtgggggttt 134640
 cccctataaa cagatgtgta cagggtttta cccacgtct gccctgtact ttagcaccac 134700
 tgtcctggga cgtaagggaag ccagcatgag aggtggaagt atggtgaaag tagatatgtt 134760
 tatagcaaaa taggtatgct gtggttgact agagacattt taaggtttat tattttaaga 134820
 gagcagttgt gcctagccat cattccattc ctctctctc gcctctcata aaaagaaat 134880
 attgcgtgcc tgcaaacata tgctctgcta tcagcgttca gacacccaaa caccgaaatc 134940
 atttagcagc tcttactgct gtcactaagt aggtgatggc gtaagggatt tagaatttgg 135000
 tatgtgtttt ctagagcatc tctcaaaata ggcattgtct atttgttgtt tgtttgttgc 135060

ccgtgggaaa tcttctgtca agtgtaccta acccatgacc aaaacttata tagatctcaa 135120
tttctagatt aagaaagaag aaaaaaggga tcaagtaagg aatagctaag taaagactat 135180
ctaagattaa aagtaggaat agctagaatt acttagattt ttatttctgg gttattttta 135240
gtgtgacaaa acagtggcca aaattacaaa tctgagggat aattcaaaga tccttttttg 135300
ttgtcgttgt tcctggggga atatgtttcc tggggaaagg agcatatctg actggtcccg 135360
gggaagaaat gaagtagact ggtattgaag agataacttt ctgtgggaac ccagcaaaaa 135420
tattgggttc caagagcttg cctgggaaat tcccagattc tttaaaaacc ttacatatag 135480
gccgggcgcg gtggctcaag cctgtaatcc cagcactttg ggaggccgag acgggcggat 135540
catgaagtca ggagatcgag tccatcctgg ctaaccagat gaaaccccgat ctctactaaa 135600
aaaatacaaaa aaactagctg ggcgaggtgg cgggcgcctg tagtcccagc tactcgggag 135660
gctgaggcag gagaatggcg taaacccgag aggcggagct tgcagtgagc tgagatccgg 135720
ccactgcact ccagcctggg cgacagagcg agactctgtc tcaaatacat aggttttagac 135780
ataccggttg atatttcagt gcctattttt atacgcattt atattgctca ggtcatctgt 135840
tttccacttg ttctattaag tcatggtttt gcaaatggct acaattttaa tataagggat 135900
ctgtttctct tctttctttc atattcttca acatttcttc aatgaaataa aaggaaagtt 135960
taggagttag ttgcttaggg tgtattatac tctgaggatt tcagttttac tatggctgta 136020
tttaatctta tattaattgg gcacttacat taatttaatg cctgtataat gttggcactg 136080
aaatggttct ttagtttggt gtgagaaaat ttcaatgaag tcatttatag aaaactattt 136140
ttctcaagag aatttccctt tccccttttc agaagtcgga aggaaaaaaa ccctggaatt 136200
agaatataga gttagagata aagtgaatg atggcagaat atgctgagac atttgctcgg 136260
gggttaaaaag acaggagatt tatagaattc cgtttttgct tgtcataagg ttatctgttc 136320
cttcttttgg acatctccct agaggtgttc ccaagctttg tatcacagat tcttttatcg 136380
cgggggtcct aaactttact gtaaccattt aaaaataaaa actaagagtt accaaacacc 136440
ttaatagaga ctctctatg aagttacaag aagtaaaca ccatatggaa gaatttcgat 136500
gtgttctttg aagccactgc ttgtatgaga aaacttaact tgtaattttt gagttaccgt 136560
atgactcatg ttggaaatgt ttaaagtctt ctgtaggcat ggtgttgttg ctcatgcctg 136620
taatcccagc actttgggag gccgaggtgg gaggatcact tgcacttagg agttcgagac 136680
cagcctgggc aacataatga gactttgtct cttaaaaaaa aaaaaaaaaa aaaaatagcc 136740
aggcatagtg gtgcatacct gtagtcccgg ctactcagga ggctgaggtg ggaggatctc 136800
ttgagtctgg gatgtcaaga ctgtttgagt tgtgattgtg gcactgtgct cccgcctggg 136860
caacagagga agaccctgcc tgggggggaa aagcctcccg atgtcctagg aatagagggc 136920
ttttgctgtt gcaggagtac tgaaatggaa tagtaggagc tgccaatgaa actcactcaa 136980
tgttgatata gcatgtttca ggaatgtgtt atttacaggg aaaactcttg agttcatcag 137040
cgaactgaga atccattcat ggggtgcagaa aaagatgccc attgggggaa atgtttctgt 137100
actctgtggc acctcctcag gcgggaggaa tgtggtgggg gctgtgaaga ctgtgccact 137160
ttcacacctc tgcatgcaga atgactccca ttctctttta ccaaagagcg aattcattat 137220
tcaacctgtt aggatccaag gcattcaagc gtatttgggg aagactactc ttgttctcta 137280
gagagacagg tttaaatgat taagtttcca aatactgagc ttattccaga aataatttgg 137340
tttctgcatt ctttgttttc tacagcatgg tgagactgcc acttagttag actgagtctt 137400

gtggattgaa gcctgtttac aagaagtctg acatacacac tattatTTTT agcctgaaca 137460
acatgaaaac catctattta aaactcccaa atctgaatga cagtctcatc ttgcttaaaa 137520
ttccttctag tactttttta gccaacagaa aggaaaatat aaacagtttg ttaattgcaa 137580
cagctgggcc ctgagtatct ttatgttaat gtttggaatc tttggatttg aaagactttc 137640
agaaaagagca tctggattaa tgtactgcta ttcaggcttc agtcttgaga agtggaattg 137700
acctcatcaa gacaaacaaa caagggtctt atacagattg ggagggcaac tgcaaaggca 137760
tggtgaaatt tctttaaaaat cttagtagag agaataaga caaatgggtct cggtttcgtt 137820
gtgggtgaat aacctcttat ttaatttagt atgatgttta tctagctgct gtggtaaattg 137880
aggatgaagtc ttttgtgtat atagttaatt cccaattatt catacatgct ttagccaaat 137940
tgctgattct ctatggactt tggagacctt ctccgcccc atacaatttg ctgtccatcg 138000
gtcccatgct ctagtttctt ctctggccat gttttctcac aggggttccc agttgctctc 138060
ctcattttcca tctttgctcc ctgaccacac cgctgctgct tttgctttct tggctgcatt 138120
ccctggattt gtctgacagt ctagggttct tgtctcttag tcatctcaga gtggtaatat 138180
agaagctagt tgatggccag ggagaagcta tagagagata atgcctgctg ctctttgttt 138240
ctcttctgt cacctttggg cctttgctga atgaacaaat ggagagtaag tagagaaagg 138300
ggtttctga aacattttcca gtctgttctt ttaagtgtt tttttctca ggattttata 138360
gtcctataca tggtagtag gtgggtgggc ggtactagg ggaggtatta cagcgaaatg 138420
cttacatatt cttttcatcc cttgtttctt tgtttgttct caactgggac ctattctctt 138480
ccccattgct gaaaggcaaa ttattagaaa ggggccattt agagtatgtg tttctgaaga 138540
acctcacata gtttttaatt tcttgagttc tttttatgtt ttgaatactc ttagagatat 138600
gaaaataaat ttgatgtaga ttctgccact aaaagagttt aagtaaaatc tagaagcgga 138660
atttatacaa ccacacagaa aaccctaaat ctgaagccga tgtgtaaaca catgattatc 138720
ataaagttag aaacttgtac catgttgggg aagtgtgaag gatctcccg aagacactgt 138780
ttttccaggg gaggcggcca gagtagtaca gatgtgaaga atctgcccta atatTTTTtg 138840
tttgacttag gtggctggaa atgaaaactt acccataaca aatagtttta tctatagaat 138900
ggtttacaaa cctgtttttg tttttgttt tttttatta tatgtctaca tagagtatta 138960
atttccccca acaggtgaaa gctcagtata ggtatgcagg cccacttgg ctaaaatatt 139020
ggtagagta ataaaaatcct gtgttccatt ccaaaccag ttccaagcca ggtaattgg 139080
tgaaaaggcc ttaatttagc cgttgggtt tcatataaac caactctaaa gcactcatgc 139140
attgaactca tagaagagcc cttcattcgc tcaccagacc ctggtgtcgc ttaatctttc 139200
agtagttcca ctaaaagctt tggtttctga gcccataatga gattaaaacc agcaaatttt 139260
aaagaagtgg agctaagaga gactagtata gtaacaacaa gtctgaaaaa ctgcgagagg 139320
acacaagaat tctgagttag cctggtagtt tctggtgaga tttccagtta aagttttgat 139380
acttagcctt ccatggacta tctcagatca ttctttggat tcataaagta tttttgttag 139440
tctccttgaa atagccaaat aaaattaatc tctgaattga gttaggaaat ttagttcctg 139500
ctacaactgc agatttcatg tgcaggaaga ggaaggagta ggcaattata gaggattagg 139560
gaacatccct ttggagttct tcctgggatg acaatggtca aatgagataa tgtgagagt 139620
ctttgcagtt ggaaagtga ataggaactc tgagttcatc tgaaactgta gctcagtgtt 139680
taaagtatgt ctgttattac ttttttgaa agtctggagt gcttgttaaa ggagaaatta 139740


```

ttctatgata tttgttgaat gaagcacaat gaggaagact ttattcaggg ccattgtaat 139800
agctgtaggg accctgcagt agggctcttg agtggggggag agcgaatggg ctcaattctg 139860
aatacatcgt catgggcaag tgggaattta ttagccatgg agcagtgtgg ggatcagtag 139920
atggaaaatt actaagacaa aaacctcagg ggtaaggggg gttctgactc aattgcccta 139980
ataggattct tggatgaagac aggccagggt gttgagacat tcattacctg gggagatggg 140040
ggaggatgag gaacttgatc agatattgga gatgatcaga tattgagggt ggagggttct 140100
gaaactgact taacaggatt ctttgctaaa accagattct acaaggaaat acacatatag 140160
gcctagcaga agatacagaa cactaactga agtttggcca accaaagaat ctttgttact 140220
gaatcaggaa ctctgaagac aaagatgtca gaatctacgt tgttataaca gactccctgg 140280
gcatttcttt tacacattac attagaacta cgtagataga agttgcaact ttttgagatt 140340
tgagtttgca gttgtaaaac tttgcttttt ggtagaaggt gagtatgaat gtgggtatttc 140400
aattagagtg ggccacattg taactagggt aaggacatc tattctgtct tggaaataga 140460
gatggaaaga ttcatgtctt gaaagcttat attgtgttat atttaatttt cttatatgat 140520
aaaatttacc aaatagctcc gaggaacgta tcattttcac cttttttttt ttttttttg 140580
cacaggggca agttgaagct tattagaaag gaacttttc ctttttttaa attttttaag 140640
ttctgggata tatgtgcaaa atgtgcaggt ttattacgta ggtaaagtgt tgccatgggt 140700
gtttgctgca ccttatcaac ctatcaccta ggtagcatt agctatttgt cctaagtctc 140760
tcctccctcc caccctgcc cctgacaggc cccagtgtat gttgttcctt gtctgtgtc 140820
catgtgttct cattgttcaa ctgccactta tgagtgaag catgcagtgt ttggttttct 140880
gttcctctgt tagtttgctc aggatgatgg tttccacctt catccatgtc cttcaaagg 140940
atatgatctc attccttttt atggctgcac agtattccat ggtgtatatg tattacattt 141000
agaaaggaac tttcttagga ccatacaact gttgttgga ggagcagaaa ttgaacctg 141060
gcctgtctgg gtctgaagcc caagctcttg gcctccatcc actctgaatt gcctagtgt 141120
aatggctgca gtcatcagg aatagagggt aaggaggag aggcaggcag aggctaaagt 141180
gtcactccag ctgtgggcta aaggatgctg acccgtggac attagcccaa accccagcaa 141240
acccattagg catgatccac tactatgtaa gtttaaggcc tgggagacat ttgtaggaag 141300
ctggttgctg tcaactgagag ctcatatatt gactttgtca agcaagagtg agaagaaaag 141360
atcacatgtt ttacttaaaa ttgccgtaaa cttttcataa gacttttcaa atcaatactc 141420
atgctttttc tttccgtatt gtaagacact cagactggta agtgaaggga cttcaaagct 141480
tggcagtggg ttagggctgt agctgtggga gtagcaggaa aagatgggag gagagaaaag 141540
caagagagct ggacacatgt ggacgctcag ccagggcac cctggaacc cacttcttg 141600
agattttatt atgtctcagg actaaatata tgtggaggga gtgacagtaa aggtgataaa 141660
agtacaagtt ataatagaat ttcatagata gggaaaattg gaggaagcac aatgtagttt 141720
atgggtaaaa agcctgtgcc acattctgag agcttcaggg tcttttttgt ccatactatc 141780
cccttcagcg cctccacata cccagggagt aagctctagt atttttgatt ttcctatttc 141840
tgccctgtaa ttaaataatga ataccatatt ggccagaaaa ttcgtttgtc tttaaattat 141900
ggatttgaag aggtttactc tcttttgcta ttccatagag gttagtaggc cacaggccct 141960
ctttatatct cattcattca ttcattcatt cattcattcg gggatggagt ctactttgt 142020
tgcccaggct ggagtgcagt ggtgcaatct cagcccaccg caacgtccgt ctcccaggtt 142080

```

caagcgattc tcttgcctca gcctcccgaa cagctgggat tacaggcacg cgccaccacg 142140
cctggctaata gttgggtcttt ttggttagaga tgggggttttc accatgttgg ccaggcagaa 142200
ctcctgacct caggtgatct gcccgcctca gcctcccaaa gtgctgagat tacaggtttg 142260
agccaccatg cctggccagg cctctttata actattgtgc tcaaggtaaa tatagaatgt 142320
agaaattaag gcaaataaaa cattcatatt aaaagcaaaa cattaatttt gtatgttcag 142380
gatatatggg atgaactggg acacctgggc tttgagccac accttccctg tctataacac 142440
acacaaaactc actctatccc ctccccacc acctccgacc tccacaccct aactgtaaaa 142500
ctcgaggctg ggcatggtgg ctcatacctg taattgcagt actttgataa gccaaagggtg 142560
aagcatcact tgagcccagg agtttgatgt tagcttgggc aacatggcaa gactccgtct 142620
ctacaaaaaa tacaaaaagt tagctgggca tgggtggcgag tgcctataga cccagctact 142680
tgggatgctg aggtaggacg atcattttgag tccaggaggt ggaggctgta atgagcccag 142740
atgatgtcac tgcaactccag cccgggcaac agagtgggc cctgtctcaa aaaaaaaaaa 142800
aaaaaaaaaa aaaaaaaaaa aaagtttaga caggtaatth tactgggtct tagtttcgtt 142860
tcttcatctg tctgatgagg cgtgtggctc agtgacctct ttgggggttt tacatttcac 142920
agtcgtctac catagtttac tggtagacct gaccagctc acctgacct aatgattcat 142980
acaaacattt ctcttcttct cttcatgttt gcatattttg attgcatttg taccttgac 143040
ttagtggggg cactggcaaa gtaagtgtat tttctgaaat aactggaga agtgggtgtg 143100
cacagtgttt tcccttgggt ccagtcatgc ttctgctgtc cttccagctg gaatctgtca 143160
gatgtggact gtggatctcc tgaagtgtt ggtaaaaatg cagaatcctg ggcccccttg 143220
agacctagt agggggaatc cctggaagt agggggaatc cctggaagta aggctctggg 143280
atctgcattt taataagcac ctaagtgtc cccgggctca ctactgtttg agaacatgaa 143340
tgattctcct ctgagtatgt gctgtggtct ttagatagaa cccagggttc cctcaaggct 143400
gtgtgtgtgt ttataaatta aacttctcag aataaattgt gatcatctag ttatttact 143460
catgtaacaa atacttgcac gcttctttta tacaaagtc tgtgttagtt gtgggaatgg 143520
agagaaggga atatatctga ggtggcagag cagacagatt ttggcagctg actggatata 143580
agggagaggt caaagttagc tagtaggttt gatcctgagt gtgggactgt agtggtagca 143640
ttacagaaat gagcagacag gcattggaac agttttgaga ggaaagatgc ccatacgga 143700
aagagcccat agaattggtt taaaatgtgc ctggatttgt ggaactagtt ctaaagttgg 143760
cattactttc agattcttag tatcttagag ttgagtgtga tctttagat cctatttcag 143820
tctcctcaga agcgggggga aattggtatc atttggaagc tattgttttag ggtggggcaa 143880
aaaaatataa cgggggaaga cattatatat aaaggtgata tttacttctt agatttgaaa 143940
gaagctggct ttcttaataa tctctaactg attttgaaac tctaccagaa taagccctgg 144000
aaataatatt tgaaatgata taggcattct aagtagatat attcatttga catttaaaaa 144060
agtatgacgg cccggtgtga tggtcctac ctgtaatccc ggcacttttg gagccaagg 144120
caggtggctg gatctcttga gctcagcagt tcgagaccag cctggacaac atgacgaaac 144180
cctgtctcta ccaaaaatac aaaaaattgg ctgggcgtag tggcgtgtgg tcccagctac 144240
tcaggaggct gaggtgggag gatcactgga acctgtgaag tcaaggctgc agtgagctat 144300
gatcacagca ctgtactcca gagctaggtg acagagttag actgtctcca aaaaaaaaaa 144360
cctttagaat ttactgtctt gtggtcaagt agaattgttg ctcgtcttct tcaaagacag 144420

```

cgtttctctc ccgattgccc ttaaactaag gaggaggaa gtattaagat tttcagtggg 144480
aggctgggcg cagtggctca tgcctgtaat cccggcactt tgggaggccg aggcgggchg 144540
atcatgaggt cacaagattg agaccagcct gaccaacata gtgaaacccc atctctacta 144600
aaaatacaaa aattagctgg gcgtgggtggc gcacacctgt agtcccagct acctgggcca 144660
ctgaggcagg agaattgctt gaaccaggga tgcggagggt gcagtgagcc gagatcgcac 144720
cattgcattc cagcctgggt acagagcaag acttcatctc aaaaaaaaaa aaaaaaaaaa 144780
aagagatttt cagtgggagc acagactact actcactcac tgagtggatt tcattatgta 144840
gtttcagagt gtttcccaga ctgcttgaca aatgaaggat gtacgttatt gctttttcct 144900
tactttggcc tgagaatgat gcaaagcagg cctgttgagt taccaagcat cttgggatgc 144960
tgcacttagt aataggcttt cagtatgtgt tcccttgta acagcagtga ctatgccag 145020
gaatcagcat tgaattgttt ttgcaacttg tgggggtgac ttctattgt cccaccagaa 145080
tcagcaaggt aagtgggag aaatcctttg tcagcaggat gggaagcagc aagtgaaggc 145140
tgggctcagt tgagaacaat tctaggagct ggcgtgttca caggaaggat agagaacacg 145200
gaggtcagga agaggcataa gttaggctgg tggccatccg gggctcttctc acattagcag 145260
ctggagagcc aaggctgaag gttgagtcac aagtggccag ccttgtgaat gtggtatgcc 145320
agacaccagc agaacttcct gaagctggga gtttcctggg gtcttcctga tgtgtcagaa 145380
ctgatgatca ggaccttaca ggttatgtgt ctattttggg tgtctgctct gacaggcgag 145440
tggtgggtgt gtagatacac ttttgccaga ggtatttgct aggtgagtgg gcaagatgtg 145500
atttgatttg ggtgtaatac tcaatccagc agtgcttctc tgctgcagtc aagtccagac 145560
tgcaggaacc tgtaaaaagc aggggattcc aacctagaat ctaagaagt ttctctgctt 145620
tgaacgtatc ctccatgttt ttcatgtccg cagaagtcaa aatgcagtga tacatggagt 145680
aaattttcag ctctcttctc ataggatttg ttaatttggt tactgggatg taatgaactt 145740
gaggtgtgtg aatgagaaat ggagaggaag tgttttatta gtttagaaaa gggggtataa 145800
aggaactctg agtgcagcac gaagctttca gctctgaaat ttcaccttc taccacacta 145860
gcagcagaaa aattgcagaa agctgattgt gttgtctatt tggcaagtca aagcaagata 145920
cggcaagcta agagatgagt ctccatgatt gctttcactt tctgtgacat gaaatttcta 145980
aaaataagaa ataaggagcc cctgggcagt tgctctttag aatttggtgtg gacagatcca 146040
ggatcatcctt gttcttcttt gtgcttttgg tgaagtgaga ctttctgatt agtgagccag 146100
aaatttcatc tgacagcttt taagtttgat gatttaaaaa cacaattgat gataaaaatt 146160
ttaaatttat catttccggt aaagtaggaa atgaaattac ctttttgctc ccaatttcat 146220
ttccagaggt ttatatattac catgtactaa aacttaccat ttctcatcta ctttataaat 146280
gaatgaaaaa ctccgatttt gtacttcttt tgctctgtgt cattaatgtg atttgcttca 146340
cttaatttca tgtccagtat ggctcttgag agagaggaa ctttgtcaga atgagtgtat 146400
cattttaatc cacttccggt tgttggtgga aacacagtta agttgcttcc tggcttact 146460
gctgctttgc tctatgagaa aatgcaatcc gtttgtcttc aggtaacact gcatttcttt 146520
cagtcttctg agacagttca tgttttcact tatccaggtg ttggctaatt ttacatagcc 146580
gcttatatgc ctggtctgtt cttgactaag ataacctgtt gaagcattat tgaattcaac 146640
tatattataa aattatgaaa ctgtaggcgg gatgtgtttt cttcctttct cacgtagcct 146700
cccttccatg ctggaaatgg aagacttgac gtgccatcat ttgataggtc tgatgacttc 146760

```

```

ccagtatttc aaccagtaat attgagacta gggcttcttg ttccccctgt cctgaagttt 146820
ggcataatga ttgcatata tatgactagc ttttattcat ttttactcta tgccaggtac 146880
atagctagct gtgtaacctc ctccctgatcc ccagaattac tttaggaggt gtaggtgctg 146940
ttattttaaaa cacagaggaa gaaatggagg aataagtaaa taacgataag caattaaaaa 147000
gtaaatacaa gtaaaaaatg aatattaggt aatttgcctg caactatgaa gagctatgaa 147060
gtgatggggg ggagatttgt ccagaggccc ccgttctcct caaagcccta ttaatctctg 147120
cactctgctg ctgcttgtag ccttttactc ttgttctttt actcagctcg tattaatgag 147180
cactcacgtt gccaggcatg gttctgggtg ctgagaagac agcagcaaac agaactgaca 147240
atgaagaaaag agttaaacaa ataaacatat accagaggag gtgatggcga tcaagaaaat 147300
actaggtaaag agagaggag ggtatgcttt ctggcaaac tcataaaaat atgagaaacc 147360
attctagtca ttgattctat ttaaacagcc taggacagta tgaagaaaag gcaagagttg 147420
agcggaaaaa ataaatcagc cctaaaaaca aacaacttcc tcaaateccag gacctatcaa 147480
gtttcatatc ttcatgaaa tggtagacaa tggtagtatca gtgtgaaaac cagaaaggct 147540
aattgtttgt atacctcaca ggggagtgtg tgaccatcca ggagggaat gtgaaggagg 147600
ttaagattta aatgttgga acaccaacat tctaattatt cctgagtttc aacaccagtc 147660
attcaagtaa cagttgtaag gaattttctt ttggaatttt ctttttctt tagattctcc 147720
cctttctttc aggatggggg ggggtggggg aggggagcaa aaatccctag gaattattgta 147780
aaaatattca ccaagaacca ctaattagca gagatctttt cttgtttccc ttttgataat 147840
tcccacaaat gaacttttta agattcagaa gcaaagaaaa aggaaaaaga cccaaaatac 147900
aaacattaag aaggaatatt ctgaccactt tggaagtcac cgtcttaagt gctgaaaaat 147960
tatctattaa aaatattttt caagagggtg gatgaaagcc attgctattt gccatttaga 148020
aattgtgttt tcatcaaaga ctgtgtcat gaacattggt ctattaataa cactgaacca 148080
tctccactcc atcatccatt tggtttggtt ctggcaagtt tataactcct ttcacatgaa 148140
tacaaatttt tcathtagaa aaggttgga aaaggatttc cattttctt cagctagata 148200
gacttaaaaa gcatcctgac ccctttctgg cccctcattt tctttccact gtatccactg 148260
attggcctga tagcctgaaa attgattaga gggaagcgat ccagatagac ttggaaaaca 148320
cttaatcctg tgcatggcct cacctctgaa aaattgcgtg cactataaac cagagcattt 148380
cagcttctta aaacatgcat ttttacacgg gggaagctag agacattgag ttcttctaca 148440
gaatgtatct accctatttt caagttttta agattgggag agttcttttg cagaggctta 148500
tttctatttg agatttcaaa aggaatgttt tgatttttaa aacttacaag caaaacttaa 148560
ttccttgctg tttacaatat gtcattgat cttgtatttt tatttagaat atgtttatca 148620
taggaaaatg tactgttgcc agaaaacagg ccaatggaat ctgtgaattt tgtattgggtg 148680
atttagttta ttacaaagaa aactaatttg tctgatgtat tcaactgtgct ttttaattat 148740
gaggaaaatta tactgcacta ctttaattga gacttttctg tttctttgcc actctcaaat 148800
tcagtccagt aagtgtactg aattttcacc aaatggctag ctctgggagc tgtcactgat 148860
ttaggggacc acactttcta ctttgcttgt ggattaagat gtaaaaagac cagataataa 148920
aaaggagagt gaatataatt ggcaaaaaga tgattataga tcttacaagc atctcaagtg 148980
agagagggtta gaagaggaag agagaagtga aagctgaagt agggatttca aaaatcgga 149040
agcttaaatg atttttatga attaagcatt cttagaaatc cttatatcac tcccctctc 149100

```

catcagtaga acaaaagctt ttttctctta tgatgctctg cctactatag tttttttttc 149160
gtgtatagaa actggaaaaa taaataattg ggtttatcac tgttgatgtc taaataaact 149220
ttgggattac aagtgccttt ctcctcacc ccataacatt ttgtaagaaa agaactgcca 149280
atttgggggtt tgagcttggt cctctaaaag caggggaaat acttgcttta ttagttcagt 149340
tgaaaattta aagatttgtg gtaggacaca ttcattgggtg acttcataga agaccaccac 149400
ggactcagtg ggtaccccta cagtctggga aaagcctgac aaactctata aacctaagct 149460
gaggtagaaa acacacgtgc cttttcccca aatttctggt ttctagtgtc ttggcattct 149520
ggtattttta cttttatttt ataaatccta taccagcatt ttaaaaaatg aagaaaatgg 149580
gaagaaaaatc atggaaaattt tgagtacctt cttatcttca ttgtttgtct cttaacagat 149640
gaggtggtga agactgtggt tgaagatttt ttccacctca tctttttttc cgccaccttg 149700
ttctctgtca tgtttcatga cctgtgtcat agatatttct tcattacgag cacttcgctg 149760
tgtggctttt caatgtttaa agtggattaa gtaatgagca cttcactgtg tggcttttca 149820
atgtttgaag tggattaagc ggctcacagt cagttctgtg acttgagttt caaaagtaaa 149880
attgccatca acaatgtgat tcaactttat tttctgtagt agctaaaagc aaggaactat 149940
attattaaca atcttggctt tactgtagtt taaggcgggt gatgatgatg cttgttagtc 150000
cacctggaag agtccttcca ggtttttgta agctttattg ctgcttatta ccttgccctt 150060
aagaagtctt tcatggactg tatttgctcc agatgtatga gacaagtta tggcaaaaag 150120
tgaaaacact gggttgactt cttttcccca tctcctagtt gaaagggaca gctatatgca 150180
tgtttagattg tccaaaagtg tttgtggaac ctcatcttga ctgggtgcga tgactcatgc 150240
ctgtaatccc atcactttgg gaggtgagg caggcggatc atgaggtcag gagaccaaga 150300
ccatcctggc caacatggtg aaaccccatc tctattaaaa atacaaaaat tagctgggtg 150360
tggtggcgct tgcctgtaat cccagctact cgggaggctg aggcaggaga atcgcttgaa 150420
ccaggaggtc ggagggtaca gtgagctgag atcatgccac tgcactccag cctgggcaac 150480
agagcgagat tccgtctcaa aacaaaacaa aacaacaaga aaaccacaa aaaacaaaac 150540
aactgtattg tactttttaa aaaacaggat cttaaattct ttattaaaaa taataagtgg 150600
aaatgtgtta agcaaaaaca ttacctgacc tctttttatt cattgggtga taataacgtg 150660
taaaataatt gctttattta catctgtatt gaccatggct gaacttcttg ccagcagggg 150720
tgtcgtgagt cctgttcac tctctgcccc ttgggtgggt gcctggcact tggccacttg 150780
gtaataactg gaggaatgat tgaatatgtg aatcatggat cagttctcag gaatgttata 150840
atacaaacaa cagtgatatt tagtacaat tgaagacata attatctcag ttacttctac 150900
aactttttaa gtgacttcaa tgcagtgtag cccgcaaaca tattgcagac ctgtttggat 150960
aacctctttc tttgcattgt cttccccgcc actccttttg gagactggat tctcactttg 151020
ttgcccaggc tagagtgcag tgggtgccacc tcagcttggg tgttctctcc atttcattgt 151080
cctcagtcgc tgggacaggt gtgtgtaca acactcagct aattttttta tttttagtag 151140
gatttcacca tgttgccatg tctagtctca gacggctggg ctcaagcaat ttgcccacct 151200
ttgcctccca aagtgcctggg attacaggta taagccatgt cctagcctgt attattatta 151260
attaattata attcaaccct aggaatatac gttgagttat aattaaaatt ccatttttat 151320
ttttaagcag agttttatag gcattactgt tacaacaaag tttccccttg ccgtgtttag 151380
agtggtgaaa ctgaagtttt cttttctttt cttttttttt ttttttagacg aagtctcact 151440

ctgtcaccag gctagagtgt agtgggtgca tctcggtca ctgcaacctc tgccttcttg 151500
gttcaagcaa ttcttctgcc tcagcctccc gactacctgg gactacatgt gcgcccctgc 151560
ccctggcctaa ttttttgtat tttttgtaga gatgggattt caccatgttg cccaggaagg 151620
gtcccatctc ctgacctcgt gatccgcca ccttggcctc ccaaagtgtt gggattacag 151680
gtgtgagcta ctgctcctag ccggaaactg aagtgtttta attgacaggt ttcaggcctg 151740
tgaaatacac actgagcaca caccctgcac atttcagctc cctgccttcg ttttagattc 151800
tatatctgca gtgccctgcc ctctccttaa agtgtgaaac tctcaatcag acccacttcc 151860
tgcactgctc cccagggtgc ttacattcct tgcaatattt tagactgcat atactatttt 151920
gtactcaatt acataatttt attttgttca ttattgtttt atccttgctt ggggtgttttc 151980
ctcactatgc gaagaagaac cctaagaatg aatcatcgca ctgggaaggg aagcatttaa 152040
attttattta atgtattttt ataattgggg aactgtaagt atttttctta gcattaatgc 152100
ttgtttcgaa gaaatggtga acttacctga acttagtaaa tttttgtcgt aataatagga 152160
tattcacaat tgtttttaat ttataaatat gtaagttgtt ttctactagg gtgctatttt 152220
agggggggaa atttgtaaaa atgttcagtc aaaatattgt catgttaatc gtatttttca 152280
agatgtgcta aaaatgattt ccaacttaga gcaaatagat tagaggccac cttatccac 152340
ctccagccta ctgctgtgtc ccctctgcaa caccttgcat aggtaattac ctgctttcca 152400
ttccaaattt tctatgacaa ggtgtccta cctcaacagg tgatcaccat agcaacgagg 152460
tagtctattc tatttttgga gtatgaaagt agcgcttct taaatctaata aataaatgag 152520
agttccagaa aaccagtgtc ttaaacaagt ttgatttact tgattttttt tttttttaaa 152580
tcacactttg ggagactgag gcagaaggat cacttgagtc caggagtgtg acaccagcct 152640
ggtcaacatg gtgagactct gtctatacaa aaagtataaa aattagccag gcatggtggc 152700
acttgccctt ggtcccagca actcaagagg attgcctgat catgggaggt tgaggctgca 152760
gtgagctatg atcatgccac tgcacaacag cctgggtgac agagtgagac cttgtctcaa 152820
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa tcatgtcatt cagtcattgtt tttattatat 152880
ttttcagact gaggacatat atcaggaac tagtattatt gtgatatttt actattttca 152940
aaaaccagta actaacattt actattgact tattgtgtct tggcagtatg ctgtttttac 153000
tcctgttgtg cagatgagga aactgataag tcaagtcttg atcaagttca cagagctagc 153060
aagagcagga attggaattc tcaccaggc agcctgcttt cagatcctct gctgtaatcc 153120
atttctctgt cttgctggag cttgctcga atgcttctt tcttgggagt tcagccgact 153180
atgagcgctt gacctttat aaaggtgctt tatatgatgt gtagccctat gcaaatagta 153240
ctggggtgaa tggaatgaaa ggggatgaac acgacgctat gggaatggta gcaagtcaga 153300
aacaccttg aattcagata gcagcatgtc ctgtcaccga tgtttaaaat tatgcagttt 153360
gaaatacaat gtttttaata aagttggttg cagatgactc aacagctatg ggagttatcg 153420
aaaggtaatg tagaaatgct tttagtgtt ttccaaatgc taggaattgg attacagcat 153480
ctatttcact cagcatttga gtcatgggac cctcatttca ttctgtagtc aattttcaaa 153540
ttttgccctt gtaaatatta aaaggtcaa gaggataagc taattaaacc ataatggtta 153600
agtttatatt atggtgacac cttgtaggga gggttttatg attaaatatt caaaaatttg 153660
tcttggtttg ataaccatta tgtatttttt tttttttgag atggagtttt gctcttggtg 153720
cctaggctgg agtgcaatgg tgcaatcttg gctcactgca accttcgct cctgggttca 153780

agcgattctc ctgcctcagc ctcccaagta gctgggatta caggcatgtg ccaccatgcc 153840
caactaatTT ttgtgttatt agtagggatg gggTctcttc atgttggtca ggctggTctg 153900
gaactcccga cctcaggTga tccgcccacc tcggcctgcc aaagtgctgg gattataggc 153960
ctgagccgcc atgcccagcc ccattatgtc ttttgtttaa tgctgaaata ttgaagaaag 154020
aacttgaaat tatctttata ttttaattctt atttcacatc taaactcata taattatata 154080
agtagatgag attgtagaat ataaccaacc ccccttatgt tccagatgaa gagactaagg 154140
ctcagagaag ccatgtaatc tgcccaaggT tgcacagcac acagctattg atgaatggag 154200
cctgggttct ttagcccat cactagatg ttttgtgtac gtgctcatga tttttaattt 154260
ggttgatgtt aacatgttgg catatattga aagaagtggg agcatccttg aagaacttaa 154320
cacgtattaa acatttgcTt ccgtgctggg caaattttac cttttaagt accatgagaa 154380
gtgatagtat tgtcactgat atcatcatta ttgtctctct cctcatcatt cccattctta 154440
gagacaggag ggcctgaatt tcccagagat taagcagatt ctttggggga tctaggtttc 154500
aaattcattg ttgtttttaa gagatgaggT ctactctgt caccaggct ggagtgcagt 154560
ggTgtgatga tggctcactg cagcctcaac ctctgggct caagcaatcc tctgcttta 154620
gcctcctgag tagctgggac tacaggTgca tgccaccatg cctggTtaat ttttaattt 154680
ttttagaga tgggggtctc actgtgttcc ctgggatggT cttgaacttc tgggctcaag 154740
atcttccac ctgagcctcc cagagtTctg agattacatg tgtgagccac caatagctgg 154800
cctcaaattc ttgtatctgg tactgtgtat tttgcagcag ggaaaatgag gttttgactc 154860
tctgccaac tctcaatcaa ttgactgtag ctgattggag cgctgtgtag agcatatagc 154920
agtagcctct gggcttaatg ggacagatgc agtatctggT ggtgtatgcc atgaccctga 154980
aatgtggTca cgatggTaca tgtatgcggT atatatgtta ccagacctat catttctctt 155040
aacatagcaa tctgattctt agtttcacag gataggaaac tcaattttaa gtttacatgg 155100
gaagatggag gaaggcttgg ttggatcagg ctttggaaag ccaactgttG ttaaccaaT 155160
acacagaaga ctgtttttt ttttgtttg tttgtttgtt tttgagacag agtcttgctc 155220
tgtccccag gctggagtgc agtggcgtga tcttggctca ctgcaacctc tgcctccctg 155280
gtacaagcga ttctgcctca gcctcctgag tagctgggac cacaggcgcg tgccactgtg 155340
cccgGcaaat ttttttttt ttttttttg ttttttagt agagacaggg tttccacctg 155400
ttagccagga tggTcttgcT ttcctgacct tgtgatctgc ccgccttggc ctcccaaagt 155460
gctgggatta caggTtgag ccaccatacc tggccagtat ggtctttaat tgtaagaaaa 155520
ctgaagagag agggaagtaa acaaagattt tacagtagta actctaactc aagtgaatag 155580
agaagtTctt gattataaca gaggccagaa actgttttat aagtactaat actaattcag 155640
taatttacct ttctattttc actcacatat gtttattcta taaatgtctt attttataaa 155700
tgTtgactgt tagaatctct aattaccggg tgtgattttt ttttttttt tctcatctt 155760
attgaagatt ctcgatgaa gagcctgtag cctccagtgg actgacttta gtagaaaggc 155820
tttaattgca gaacctctga gttgactata acaaatgcag tttatttttag actggaaata 155880
acaaaagcaa ctagtttgag ttttgtcaa aactcaaact cagtTatctg aaagaattta 155940
ttatctgtag agtttcagta tgaagaatgc agttaatttg aaaattcgtg attgtcttaa 156000
atgtctgctt atgattattt gttaattgct tattttgtc cttttgtcct atgtctccaa 156060
ctctgtcctc ttgtgttact gtgttcaata ttaggccct gcctacctgc tccctccctc 156120

cctccctcct acccttcctt ccttccttcc ttcttctctt ccttccttcc ttcttctttt 156180
ccttccttcc ttcttctctt ccttccttcc ttcttctctt ccttcacta actgctttct 156240
ctatcatttt tttttcaaga tatttaggtt gctagtctca agtataataa gggatattgc 156300
aaaatattta gatgcattag atggatcata ttactcaatt tttagtagag cagttatttt 156360
gaatgacttt tagttttggt gtgtagctcc taattcgtgg ttaatttgta atcttatgct 156420
tggggttaaa gggcctgctc tgcattgcct acagcatttt gatggctggc tgatggcacc 156480
tctgccatcc ccactactgc tggactttgt ctaggacttg ggaaacctgg gtctgtctgg 156540
atttacttgg cctgttgtct ttctctctcc ttgtgcttgt actccatgtt ggaagggaag 156600
atatttttga tgtctagaaa tgtgcccttg tgagggaagt acaccacaga ctatactagt 156660
tccacaaaaa aaactagtat agtttttcaa aaatagcatc atctttttta taaactagagt 156720
gttcacaccg aagggtgaat ggaaaaaagg agtaagtttt tggataaata agaattgtgg 156780
gtgagcaggc caaatgttaa aaattctctt aatgggtata ctgttgtaga gtagtattga 156840
atgatgcatt tgttcagcca gcagccctta tgtggttctg ctgtttggga ctctagtaga 156900
tacattgaga gctacaaaaa tgtaaacgtg tgattcttgc ctttgatgac cttacttgtg 156960
aagtgaatg agacatggag aggagtata atatacaatt atgagtgaga catatgttac 157020
tattatagat aatggccaca tgtaacaatc aaccctgtgc ttcttttgaa atagtctttc 157080
aatgggtagg atgagactaa gaagctccta gtatgaaagc atagcacatg tggaaaacat 157140
gtgtttttat gagttatact cgattttagg tataatggaa atgaccaggg tcttaagtcc 157200
tccaaaattg aatagttcat ataattcttg attgcagttt taaatatttt ttcccaatga 157260
acacacaatg tctgctgtag attttgaaa gtggtagtca aacaaagtct caacttcttt 157320
ctttttacat atagaacact tattagccat ctgtaatatg tgagcaatag ttatataaaa 157380
atttgacttc aaaagcaa atcattttt ttagatgttt ttaatgaatt ggaaattgtt 157440
gtgtgtgtgt gtgtgtgttt ggttttggtt atttgccatt taagtggaa ttaaaatcct 157500
tcatacacac tccaaagtta ttgttttctg tgtctggatt ctaccttact gcttctataa 157560
agttgcatct tctcatcaa attatatatg gtactgctaa aggggttggt ggaaatactc 157620
tattgaaaag aatataatta tgacatagat catataccta gcttcacatt aagaaaagag 157680
tattgagtat ttgaaaaact tgacactgtg ttataaata tctattcatc tagtccagca 157740
ctgaagagtc atataagtac ttaatttcag aggtgaatca caagtggcat taaaaatgta 157800
tttttcttgt tacctgggac ctatagattt aataagttta aattattcct ttggcctcaa 157860
ctctgggtgg taacctaat ctaataccat ggtgaatggt tactgtgact acccggttgc 157920
taagaaacct gttatgttat caagttgcct tggcgaagta atggcttctt aggactcctt 157980
agcaccgctg ggaggttgtt aatcagagct atggaggacc ttacagaatt agttcccctg 158040
gttataacta atttttcttt aggaagagaa ataaatctaa gtctgtaaaa actgaaacaa 158100
aacaaagtat aaattatttt aaattgaatt gagaccttta gttattcaaa aaaaatttga 158160
tcccagata caaacctgtt ttactagta tttttactag ttacaaggat ctgtgtcttg 158220
aatggcagca acccaccctt caccctgctt aacttagcat tccattttcg tttgcttaga 158280
gtgattcttg gcagggcatt tgcaatgtat agaagagtat ttgaactgag atcccaggag 158340
aaaacactgt gtgaaattat tttagtcatt tgatatcaat tgctcttgct atgaaatgat 158400
tcaacatttt attttaaaca aatggtacac tatgtagcat tttaaaaaat gtaccacact 158460

tggctactggg tcacgaattc tgttcaaggc aggaacctgg ctttcacagg atttgctcca 158520
tggcaaaagg tttcagatgc ttaaagctcc acaacacagg ttcagaatct gagaagtgg 158580
gctgctgata attttgtgta acttagctct cttccacatt gttttctctt tttatctcta 158640
tgcctggagg tgcttgtttt cagcaaatta cattttgaga aactctgttc ttgactattg 158700
tttagaggta caatgcagaa gggggtcatt cccattagac accattctcc tttatagcag 158760
tacaggtgaa gtcacaagcc agcctgagga ataggatgag ctgttcaatt acacaggagt 158820
gggcacagtt aagaaccag tctttggaat tccagtcaga cggcctggac ccaattttgg 158880
gtcttctgcc tcaaactttt tgaccttaaa tcagttctat aatgactcta atcctcagtt 158940
tcctcaacag taaatgagag ataaaaact tttgatttca gagttgtgtg gattacatga 159000
gattatatga aatgcttagc ataatttctg gcacttaatg tgagcctttg taaatgtaca 159060
atgttaatta ttatagagga cacttatttg ggagctgtaa gttgtttctt taaatctgaa 159120
agatttaggt acttgacatt tgatgaagcc acccacgcta aagctttttt tttttttttt 159180
ccttttgaga cggagtctcc ctctgtcttt gtgcgccagg gtggagtgca gtggcatgat 159240
ctcggctcac cgcaagctcc gcctcccagg ttcatgceat tctcctgcct cagcctcctg 159300
agtagctggg actacaggca ccgccaacat gcccggttaa ttttttgtat ttttattaga 159360
gacgggattt caccgtgta gccaggatgg tctcgatctc ctgacctcgt gatccacca 159420
cctcggcctc ccaaagtgtc gggattacag gcatcagcca ccgcgccggc ctaaagcttt 159480
taattgttgg gaagattttt cagattttta aatttaattt atttttaaat ttaaccttaa 159540
atgtaaaaaa aattttttta gacacagtgt cttgctctgt tgcccaggtc ggaattcact 159600
ggtgtaatca tagttaattg caacctctaa cttccaggtc cttcccattt cagcctccca 159660
agtttctgag actacaggtt tccaccacca tgcccagcta cttttttttt gtagggatgg 159720
ggtcttgctc tgttgactag gcaggctca aactcttggc ctcaagtatc ctctgcct 159780
gacctacca tgtactggga ttagagtctc ccagccttta atactttata atttatttcc 159840
atgtgtcttt ttccttgagt ttagagttgg acattctaag ttttagccct aacccttgg 159900
ctttctggga catcagtttt ctcatctgta aaatggagggt gggaattgac ttacatttca 159960
ggtcacattc tgtgatctga gctctgggag agcttggtga aaagtccct tctgattcca 160020
tcctgaatag aagaggaagg gtctagagggt taaggacagc cctcaaagtc ttggaatgtc 160080
gggatgagcc acacaaatga tggtagctca tgtttctctt tttcttgtcc aaagaagaca 160140
gccagagctc tcatagtaag tgagttaatg aatggacagt ctgtgtttgg gttaaataca 160200
tgctttcggt tattactttt ctctttttta aagaacaatt cttggccaga catggtggct 160260
catgcctgta atcccagcac tttgggaggc tgagggtgggc ggattacgag gtcaggagtt 160320
cgagaccagc ctggccaaca tagtgaaacc ctatctttac taaaaatata aaaattagcc 160380
aggcgtgggt gcacgtgcct gtagtcccag ctacttggga ggctgaggca ggagaatcac 160440
ttgaacctgg gagtgagggt ttgcagttag tcaagatggc tccactggat tccagcctgg 160500
gtgacagagc aagagactgt ctcaaaataa atacataaaa caaaataaaa taattattta 160560
aaatgtttga aacagcctca aaactgcaga attgtttaca atacaatgca aaatacttga 160620
cagcacttgt tagctaacct caacttggtt tagagaaata atttgaatag cacagagaac 160680
attttttctt gaaccgctgg agagtaaatt gatctcttga tgcccatcaa ccctgaatat 160740
ttgttgatt tccttcaaaa caggtattca tctgtgtaac tacagtacaa ccgtcaacat 160800

tagaacactt actttgatgt ctgtatttct actgttgaat cccagaccc catttaggtt 160860
tgggcattga gcccataaa atcctttgta acagaaggat tcagttcaga atcatatgtg 160920
tccttttagtt ggtgtgtcct ttttaatttct ttaagagtgg gacaataacg cagtcttttc 160980
cagaattctg tgaccttgat acttgtgaca attacaggcc agctgttttg tagcatgtcc 161040
tatttgaatt agttgatata tcctcatgat tagatccagg ttatccatct ttagcaggaa 161100
catcacagaa gtgactctgt gctctctctt attgcaccc ttcagatgct cataattttg 161160
atttgcctca ttactgggtga tgatcacttt gatcattgac taagatggta cctgccagtc 161220
ttctccattg tagaagtcct aattttcccg ttgtaattag taaatatttt gtaagggtgt 161280
agttcaaagt gatataaaga ttccttttct caccaaattg ttgatttatt catattcata 161340
atagtaccga ctcatggttt tgttaccatt caatgggtta tattactatt atttattttg 161400
atgctcaaat aaaattcctt taaaccatct tatgtgtgct cttaacatgt cctcttcatt 161460
ctttgagcac atcttttctg gttcaaagag atgttccata ttcactctgt acttgtacag 161520
gacttgtagc ctagtccctga atgagccatt tctctaagaa atcctgggtgt ctttttagtag 161580
agaatcgat ttaaaagcca agatctgtgg ggggtacatg tgcctgttag tattgcagtt 161640
gtgcctctcc aaaactgtta gtggatagag ctggagaata cttgaatacg tgtatgaata 161700
tacttggata ctacgtagg taatacacat gcataaaaac acatttattt ctacatctta 161760
ctatgtaggt tgatatcaag gagtttacac tgatacctcc aattctgatc ccattgttgt 161820
tctaattctt tctgtatttg taaaactgct accatttcta tgacagaaat ctgacacgta 161880
tacatgtgta accagcctct cagtgcactt ctctcttaac cctaggctct gatacctgat 161940
gtagactgc taccgtgggt gatgtcttca tcctgactgt tttccacgtt ccatgacagg 162000
ccaccctttt atgtgaatac tccatgtagg gctgttccca catctagaca tcttccttat 162060
cccactcctg actccctatg tcaagctgac ccctaacc tgggatatct accttgagg 162120
caggaagag gaacaggaag aagaagagct ctttcctttt ctatttcctt gatgaggcct 162180
cattctgtca ccaggctgg agtgcagtgc tgtgatcatg gctctctgca gccttggact 162240
cctgggctca aaatgattct gttgcctcag cctcccgagt agctggaact acaggtgtgc 162300
accacatgc ctgggtgata tttaaatgtt tttttagat acagggtctc actttgttgc 162360
ccaggctgggt cgtaaaactcc tggcctcaag tgattcttcc gcctcagcct cccaaagtgc 162420
tgggattata ggtgtaagcc accatgcttg gccattttc attttaata ttccaagcga 162480
agctatttag aatattttac ttttgaac actattatac ttatcaagga aaatgttaca 162540
tatacagtta aatcctttct taatgtcatc aatagtttct tggaaactgc tattttaagc 162600
aaaatgatgt gtgatgaaac taattttacc ttatgctaata tgatataaat agaattaagt 162660
tcctgtggca tatttttaggc ccccaaaaca tcaccaaact tctaaacaaa gaccccaaac 162720
atttctaata gtaaacacgg aaataaatgt gaactataca cactttgaag aaatatcaat 162780
aaaaacaagg aagataatta tttaccagct cagtgaagta cagcagtcac ggtggcagtg 162840
ggttaaatga aggaataaat gtttgcaaag tgaaaattgt aagaagcatc tcctaccacc 162900
acacagtta caaacaagca gtaaatatgg tgggctctct gagcgctttt gtgtttcatg 162960
catttgtatg gttaccatat actttacaca tttctgtttt acaatacttt gtaatcattc 163020
attcattctc taacctgtta ttccagttca gcattgcagg ggtccagagc ctatcctggg 163080
agtacaagga acagatggaa cccaccctgg acaggatgtc attccatcac aggacacact 163140

cacacacata cccacactca ctgagactgg accattgaga cacaccagtg cacctaattgt 163200
gcacatcttt cagatgtgag aggagactgg agtacctgga gaaaaccac acagacatgg 163260
ggagaagaca acggggaaat tccacacgga ggccttggcc aggagtcgat tttgttttct 163320
cttatcaatg ttaccatgaa atgacgttga atgaaacgtt attcaaagac ctgctgtata 163380
cagaagggtcc ccagtgggtc gaattgtgat tttttgactt tataatgggtg caaatgtgat 163440
atgcattcgc caaaaacat atgagtggcc atacaaacca ttctgttttt cactttcagt 163500
atggcattca ataaattcca tgagttattc aatactttat tataaaatag tgtttgtgtt 163560
agatgcgttt acccagctgt agactaatgt aagtgttctg cgtgtgtttc agccaggcta 163620
ggcttaagct atgatgtttg gtaggttagg tgtattaaat ccatttttga caagatatatt 163680
tcaacttatg atgggtttat cagaatgtaa cccccctt aagtggagga gcatccgtaa 163740
ttgtttttgt catttgagcc gtagtttaa caaatgaatg caatggata tttcctcaga 163800
taagtggcct agcttgaaaa ataaaacat acctgaaaac taggtgggtg tttgggaggg 163860
gaaagagagt ttgaagtgtt ttttcaaaag ggtaccagc acccaagtac ctttcttctg 163920
tttaattttt aacaaaaggg ctatctttgt agcaattgtt gtcagtatct ctgccgtacg 163980
catatgtggg cagaaagcta gagtttgaat agcacttggt agtgaaaacc aacttcttta 164040
tggttttatt tgaacagtgg ttcagaattt ttatgcttac catcttattc ctgtttgaat 164100
acttggccag ccataattctc agagctccct gctctagcca gcctctctaa tggctcctac 164160
ggtgaagtgc tgtagcgct tccattggaa acctaccagg atggctgggt tctggcagga 164220
tgccctctca agaaagctgc agccccagtg ggggaagcgc aggggtggagt ttttcaccc 164280
tgcttctggc tgctctccag accctggagt gtctgtgagg tttttttgt ctttctttc 164340
tcccttaaca acaaacaaac aataacacca ctacttgac ctatgagga catgggatgt 164400
gtgtgtgtac gtgcggtgga gtgggccttt tagctcccca gcagtgttct tctgcctctg 164460
ggcttttttg tcagtgtgac ttcattgagaa gtggtagcag tactgtaagt taggtctgta 164520
gctctagagg atttccctat catggccttt ttatttcccc gtggttgtcc aagcaaagca 164580
atggaaatct cctgctgggt attaactatc tttctagacc attctttgca caaatgtctg 164640
acttaatgag agtctaagtc acccttagca atttctcaa ctccaaacta tggcgtgtta 164700
caagatggca actgcttagt agatatcaga atagccttca tgttttcatg gcagggttgc 164760
cagatttagg aaataaatgt acatgatgcc cagttgaagt tgaatttcag atctacagca 164820
tttttttagt gtaattgtgt cctgtgcagt acttgggata tgctggtatg aaaaattatt 164880
tgctgtgggt ttgaaattca actttatctg ggtgtgctct tttatctggc agctctactt 164940
cgtgcatttt tgcatgatgt aataacttgg atacatgttg tccttagaat attatgtata 165000
tatgattagt tcctaaaaag tgactggctt cacaataaa cccttgagtg catgaaattt 165060
tgaactcctt aaaaggcagc tgcagttgag ttggcaaact acatatgcca gatttccaga 165120
ctgagttgag tcggccatca tgaggcagga acttgaagtt acatcatcta gaatttcccg 165180
gtaccctttt tttcctccct ctctttaatg actctttatt tgtaagttag aaatttgggc 165240
taagcattcc cttcaaaaag gcgtctttcc tgtattcatt gaaaaaggca gaaatcttta 165300
gtattaaaca aaacagactc atctatatga ggttatattt gtgcatgtag aaagaaaaag 165360
gaagagtttt ataaacttct gccttgcttt gtcttttatt tgaccagtat ttcctttggt 165420
gtattctaca agaagaccag agaaccacac atgatagtag taaagatccc tccggtcccc 165480

ttttagatac tttctgtcat atcctttgac acacttgatt caagtaacac cctcttgtaa 165540
gggcaagtgg ttattcctaa ttttgtaagt tagaaattct ctaaactgaa cagtgtattg 165600
gtctctttcc caaaggatgc aagatttgtc ttcttataaa gccttaagaa tggctctcatt 165660
aaccgtctgt tattgaatga gtagattctt gtgtagggcc ttctgttctc agggcgggtca 165720
ttctaccttc ccctgagtct ctgatccatg atccctggaa gagattactt gaaagcacat 165780
tcataatfff gctccacatt catgatttgg cttaaagaga attaagaatt attatttgag 165840
cctttttaat agtttgctgc agggtttggc aaacttttct tgtaaagggc aggatggtaa 165900
ataacatgct ttgcagacat acagtctctg atgcgtactc ttttacaacc ctttaaaaat 165960
gtgacaacca tttttagctt gtgagctgta ccaaagctgg ccgtgggctg gcagtagttt 166020
tcctgagtgt ttgtcgtag aaacatacta catagggagt tctgtgggtt ctgaaattta 166080
cccattgttt tcgatataca tagaagtggg aatgaatact tggcagtaaa aatatgtgac 166140
aagctgtggg cgctctaata tcctggagga cattgtctcc ctccctgccc cttttccctt 166200
gtggcagtta ttcatatfff taatagaatt ttgtaatttc ttgttaaaat tttggatttt 166260
gtgtttacac taaacaaaat gtcattctga tggatttctt ttgtcaggta tgtaggagca 166320
agtggtcata tagcaaattc atgccccaaag gcgggagaaa gcaagacagg acatcagtgt 166380
gtcttctctt tgaatttatt tatttatgac atagaggatt tggtgaaatt ttggtatcaa 166440
agaacatcct aaccagtttt tctatctttc tgaaccgtcg attcttaaga aactgcataa 166500
gcattttatt ttgacacctt atggggaggg atgttacatt cacataggaa tgtaactcaa 166560
taggaagtgt gccctttgat ttgctttatc ttttactga tattctttga aagattatgc 166620
ttggtgtacc tccagattgc agtggttaaca acaggcaggc tcccaaaagc acctaagggg 166680
agtgcagtcc catgagaatc catcatacat ttcatacctt ttcaactgct gctcttagtg 166740
cttggtgcaa agccattcag gctctcctcg tcttttatta tacaaggaaa ttgggggtatt 166800
tcccgtcact tttttccctt tcagactttt acaaatgatt tttggggccc aatgtgattg 166860
tgaacagaca gacatagctt ctaagaaagc cgttgggacc cactgaattg tgcctgtcag 166920
acaaaggcat tttgtttaga aggcttgtcc caaagtgggt ttggagtctg aaagaagggc 166980
cgccagcgtc tcgttctttc tgctgtgaac taataggaaa gctgatgttt gctgagtgga 167040
tggtgttact cactgtccaa acagatctgt gtttgccaac tgtgaacata ttgctgcctc 167100
tgtgaggcac tccatcatgc cttgaatgga tcctcttgtg ttcagaattt tctgactcaa 167160
agagagggag agagaaaatat ttctttcaga cttcagcatt cactgtagca tccatagtct 167220
catcagacct ttagaaacca agcatgcacc ggagacgctg ctttaaggaga gtgagaaaag 167280
agcagagaat aaggaataaa gagacagccc cattgaaatg cttttattct gaccacttgt 167340
ggccaagtgt tcgtaaataa accaggtgc cttggcaaat agaattgtga gaatattttt 167400
aatctctcct gagcaaaaata gaactctgag tttccaactc atggtccatt tctgtgcatt 167460
tatacataca tgcacagaca aaaataaaaag catagaattc atttataata tattattaaa 167520
tggtgatag agttttattc cacctggata atcccttaag aaaaggctaa ttgaaacata 167580
tgaaggagtt ttgattactt tgtaaactgt ctcttagttt tagagttaca aacttattgt 167640
atatgaaagg gtgaaaataa agtatttttg ttgttgttgt cagtttagtc actttctata 167700
agttgacagt aatagtactt tctggagaag tctagtattc actgtatgaa ctgaggatgg 167760
agctcatgga aaagatgtgg cattccttgc aattacccat tgttttgtgt gttaaatttc 167820

```

agaagacttg gttgagtggg tggaaaaaca acactgctga taatgaaact cagtgagcac 167880
atggcatgca caggacactt acccattttg ggctgtgttg cttattgagt acatgttgaa 167940
cactgaacag cttcactcgg cattgcggtg gaaatggaga gagacggaaa ggacagaatg 168000
cttttgtgag tggaaaggta gatttctgtg cagttctatg cagcggtaaa cgttgcctgg 168060
ccttagtgag aactcaatgt tgatttgcct acctggagta aatgactttt tttggcatat 168120
ataacccata aaagtttaaa accagaatta ccctccccc tccaggctac aaccatttgg 168180
ttatctggat attcttatcc aggactaact gtacttatgg aaaaatctag ttctttaaac 168240
ttactggtta taactgaaat ataacaggaa tagcaggggc agttggggta ggagagggcc 168300
tggcaactat ggctgccata gatgtaatag tagtgatctc agctagccca gctgggaagc 168360
ccaccatgtg ctgggtactc ttctaagtat tttatatatg ttaactaatt tcttcctcag 168420
acaatcttgt gaaattgtta ctattacttc attcatttta taggtgagga aaccaaggca 168480
cagagaaaagg tttattaaca tgcccaggat ctcaacaact gtcatttgtg gagtgtggaa 168540
ttgaatttag aggaggttgg ccgcagtatc tgccacaact actacagcac tatggttggc 168600
cggggaagaa acctgcattc tccttgtaga gttttctatt tatctttcct tttttcttg 168660
gagtgtgtgt atcatatcat atggtttttg aaaagtgtct gaaggtcatc aaaatctaag 168720
tactaggagg ctaagatcag aaagataacg cattctatag gtaaaggaat ttgctcctca 168780
ttgtttttat catggaaaaga agttccacat ttaattaatt cctggttatt attattacaa 168840
attggttgaa ttacattgtg gtctagtaga tagggctggg taataataca ttttgttcag 168900
aacttgagag ctgtatttta aacttaaagt cagccattta tatgtaatta aatgctaata 168960
taaaaatatt caatcatatt tctttatgat gatggaatga gcagggatat gtgtatatgc 169020
aaagcttgga agcaacgttt ttacaaccgt aggtaatag tactattgcc tagtgtgagt 169080
agcttttctc aagagactgt agggctgatt gaaattggcc agtttcagat gatttttatg 169140
ggagttatgt ttattgcagc tcattaatgc catgtttaat agttactggt tttctgaaat 169200
gttgtcctga gtggaaaggg ggttccactg ctagaggatt aggacctaaa atagttttgc 169260
gtgaataacg taagtttgta acttatttct tgggaacctg tttaaaagaa agtgtacttg 169320
aaaggccggg tgtggtggct catgcccag cttactccca aagtgtgta atcccagcac 169380
tttgggaggc caaggctggt gtggatcaac tgagctcagg aatttgagac cagcctggcc 169440
aacatggcga aaccctgtct ctactaaaac aaaaattagc tgggggtggt ggtgggtgcc 169500
tgtaattcca gctacttgga aggctgagtc aggagaattg cttgaatcca ggaggcagag 169560
gctgcaagga gccgagattg caccattgca ttccagcctg ggcaacaaga gcaaaaactcc 169620
atctcaaaaa aataaacaaa aaacaaaagca aacaaacaaa caaacaaaaa aaaaaaaaaa 169680
aaaaaaaaaa gaaactatat tctggagact atattttgga aatgagtta taaaaaata 169740
aaaatagatc acactttatt gtgatgtttt atgcagtttg tataaacctt ggctgaattt 169800
aaaatttttg cacatggtat tgaacacatg aaacctatca agatgtttca gtatattggg 169860
tttgcataaa aactaaagtt tattcaggtt tcttcttttg agagagagat tatgacaaaa 169920
gaatagcttg actttctgcc ccaagaatct ttgttttggc cttttttgcc tttgttttac 169980
ttattttata tgtcttgac ctatttttgc ctattttgaa cctgttttgg aggggctacc 170040
aaactgccaa accagtgaac tcatcacaga agaggcagct ccacatccag agaattcata 170100
gtctcagctt tctgaatgac acctaaagatc actaccttaa ttttttttat ctgctagtca 170160

```

gtaattttca agtcttttct gcttggttta ggtgtagtct gtaaaaggaa agcaggatat 170220
taatctgcat gaaaacctgg agaaattaga aaacttttgt tgggtattac ttttgccga 170280
tacctactca aaagtagaaa cagaaatacc ttattatatt attatataat aattatatta 170340
atgcgtgaat aattgttatt tatttgatac ccattgtatt ttaataccta atgattaaca 170400
ttaggattaa aaatacaatg ggtatcaa ataaacaca gtttacaagg aaaaaaagt 170460
accaaagcac cctgtggatg cttttgtgaa cttgtgcttc agtctgtgtt tctgttcagt 170520
aggttttgat aggctagact tctccagata catgaaaaca ttaataattt agtacacagg 170580
ctgaggtttt attgaggttt atgtgggctc agaaggagg acatgtgtgc tgattgttc 170640
atgggtggcc aagggcgggc ctggaaaaag caccatccaa ttggccagaa ggcatacagg 170700
aaattctcac tcccagtagc agtggcacac acctgtaatc ccagccctt gggaggccga 170760
ggtgggtgga tcacttgagg tcaggggttc aaaaccagcc tgaccaacat ggtgaaaccc 170820
catctctact aaaaatacaa aattagctgg gcatggtggc acacgcctgt aatcctagct 170880
acttgggagg ctgaggcagg agaactactt gaactctgga gaaggaggtt gcagtgaacc 170940
gagattgcgc caccgcactc cagcctgggc aacaagagca aaactccatc tcaaatagat 171000
aaataaataa aaagataatt tagtaaaatt aaagggttga agtgtaactt aataaaacct 171060
tagccttaac aatgctttcc ccagtcttta gaggaagat ttgtttttaa tttccttgta 171120
aatctcattc tataaggccc atgctggaca gatttggtga ttaagatctg aacttttatt 171180
tttttctttc ctatagctga cattagtaag aatataatat attgtgatat gaggacctgg 171240
gaaagaaaaa ccaaagggtg gatgaagcac aaattaaatg aatctgacat ttctcccaac 171300
tcctggggaa caatagtact ttgaactgta atttactatg cagttagagc aatttaatag 171360
attaggtgga catgctgtct actgtcagaa atggcttttt caaaacatga atagtaatac 171420
atataattat ttaagccct tctcatatag ctttctcccg gaggtgagc aggttagggg 171480
gcataagtaa atagagaaca aatggagaat acagaatgtg tagttttagt ggacgatact 171540
gtttattttt atttattttt aaagttgata tataatcatt gtacatattg tatatattgt 171600
tgaggtacat gtgatatttt gataacctata tgccatgtgt aatgatcaga ttacgttact 171660
gttgagctat catcatcaca ggatccttcg ggtgtcactt cgccagccag aaacctctgt 171720
ggccggcggc gcctctgctt gagctttgct cgtgcctgct gggctgcttc tgcacactcg 171780
gcctgccagg ctgtgctcag cttgcgccgc cggtgggat ctttctctgc caagggtgcg 171840
ccaggcacgg agcagcgagg ggcgtctaag tgtgtgagca cagggtccgg ccactgtgca 171900
cagctaggca ttctggctgc tgcggtgggg tgggcagctc catgcaccag cacaggtgct 171960
ggctccatgc gaggtgtggt ctggaccaga cataccttaa gctgcgggta ccagtgtctg 172020
gatgagggaa acacagtggc gcctgaaagt tctgagatgc caggaaccac agagcccaa 172080
agagggtgtt acagcatgtc acagccctgg cttagggagc actgagttct gggctctcag 172140
tagggccgca gctcttctct ccttattgcc ggcagtgcgg tgagtgggtg tggaggtggg 172200
ggttgtgttt caccctgttt gtgttacagc tctttcagtc atgcctgcct gtggctcctg 172260
gactggttca gtaccaccac tgcttcttgt tgcatgaggt ggctgcctgg tgctggcaga 172320
gggcgggagg gctatagtgt tacagccctt ttagctccc cccacagctg ggcaagctgg 172380
ccaggaaagt gttacagctc ctttcgttcc tgctgtttgg cgggtcttga gtttttttct 172440
cacgtcctgg aagaatgaag ttacacgggc aactggaggg taagcaaggc agagaggagc 172500

```

tttattgagc aacagaacag ctctcagtgg agaggagacc caaagtgggt agctcctatc 172560
cacagacagg tgacgagtcg ctgagtcctgg gggtttttat gggcgagga gggtagcat 172620
gggtggccac gggcgggcct ggaaaaagca ccatctgatt agctgaaagg catcaaggaa 172680
gttatcactc ccagtagccg actccacccc gaactggcag cccaaccgt aggctacagg 172740
ccctccctgg cttagaggtg gatttcacca gggaccact gcttcctgcc taggaacctg 172800
tctgcctccc accactatca atatgccatc catggcgccc cggctgtcca gcccgagggg 172860
cacctgcagg cccgcactga accgccctca gccccttgac cttgttcccg tgctcattgg 172920
taccacacgt ctggagggag cccaggcagc agggggctgg catgtcagtg ctgccccgag 172980
cacacacaca tccggccggc tcgtgacagt gccaggctc ggccacaact gtttcagca 173040
ctggagcggg tgccaggggc agggagaggc caggagtggt gagaaggcac ttctgagcct 173100
gcggcagcgc agggatgcct gggctccggg ctgcagctgg gtcgctgcag ctgtgcctgg 173160
ggcgcatgct ctcatcctgc caacttggtg gagcacaggc ctcccactgg gatcacctgt 173220
tcccgcccc gccagctcca ctaagccgcc gcctaccct cctgcagct ggcacgttg 173280
cagtgccgc tccacatggg ctgccactgc tatcattatg atgtgtttg ataaaataga 173340
tcgttagatt tttcttaaga gttctgcatt tttctttct tttctttttt tgttttcctt 173400
ttttcttttg aagtgggtct atgtcactca ggctggagtg caggggcaca gtcgtagtgc 173460
actacagcct caaactcccg ggcccgcgca atccttcgc ctcagcctcc caagtgtgct 173520
gggactgcaa gcgtgtgaca tcatgtctgg ctaatttttt gtttctaaaa cttttttaga 173580
gatgggaatc tcaatttttt ttgcccagg ctgttctcaa actcctgaca tcaagtaatc 173640
ctcccttctc agcctcccga gtgtctgaga ttacaggtgt gagtcacat gcctggcaaa 173700
ctctgcattt ttgtagtatt ttgttttagt taaacttttc agctgagtgc aaaaaatga 173760
aaagatttgc acatgattat gcaaacaggt acgactgttg agaagaatga gctaaggttt 173820
tagggaagaa aatatctttt tttctggctc atgtgagaga attagctcag cttagaagtt 173880
acttgctttt tgatgtgta ctcggatgtg ttaccatat atagaatcat taaatcatta 173940
tctttataca cattcttagt gagttgagat ttgctgctg acacatttgc aaaagttggg 174000
attgaaaatt agagtttctt gttcagtgc ttactactct gctgttcag aaaccttta 174060
gttaaagtaa caggttaaag tatttcatat gaagagaact ttatgatttc atatgacaat 174120
atacacacac tgaaaaacat ataactgtt aaatatatta atgattaca atagtataac 174180
aaaaattagt cataacataa atgtaaaaat gtaggttttt aagtagtgag ttcagtgcctg 174240
attggaatac taaggatctc aataacctag tataattcaa gatgaagaaa cagaaatcat 174300
ggccttcttc aggtttgaac ttggcgggac cctgtttgca ggctctacct gtctctgcag 174360
tggttgagt tcctcattgg tccactgacc caggtgtagg gaagaagttg gctggactta 174420
tttctgaatt tgattgtcag tagcccaggg ttataatgat ttctcacacc ttggacatac 174480
agaaaatgat aaaaataaat gtttttagaa cctgattttg caaaggggca tagataaggt 174540
agattgtag aaggacccaa ggggaatggt tggaaggcat gtcatagaag gagaagataa 174600
agaaagccta gatgattttt gtctgtagaa gaggagggt gatggaattc aactgcctca 174660
gtctgtatct aaatcttgtt ttatgggatt gaggttacgt tttgtttgtg tggtctttag 174720
gaacagaatt cagatttctg cctttgaaaa aggggaaacc ctttaccagt tgcgattatt 174780
aaaaaatgga atttcctgcg ttttgagata gtgaactcta cactgaagta ttctgctact 174840

```

tgctagaaat tttgttcaaa agttcaagca ttaaattgggg aattggtctg gatgaccgtt 174900
aagatcccca agagaattcc aattctgtga ccttagctgt caattaaaga tgttttataaa 174960
tgttttatca actgttctac ctacttcctt attccttagat gtatactatt tcatgttaaa 175020
ctatcaccag aggccattaa tcatataaat aaacagcaat aattgcatag actgatgcgt 175080
catagagtgc ttattatcct atattatata aaatcctgtg atcattttgt tgttgccatg 175140
gaagtataac agtggttgct ttattatgac taaagctggg ggactatttt tagccaactt 175200
atagtcatct ttgccagctg aagcatattc aattaaatat ccattaataa gataaagttt 175260
atggaactct gctaattgact ctctttccct tttcactttt aaacattgtg atgaaattaa 175320
agccttagcta attgagctca aggttaactac aaatgagatg tgcttcaagg atcttgaatg 175380
agcctatttt tttctacctt ctatttattt tttactgcgt tctttctaag tcattcttct 175440
gaactgatcc atagcacatc tgcatacaaa ccagtgatca gggatggcct gaggaagtgg 175500
ggctgcttgt ggggaaaagc agactctgaa ggctgggaa tctacatttt caaaaaggcc 175560
tagaaatfff gatgtaacag acatttgagg atgatagcag gaagaattta gaaattgtca 175620
gctaacacct gtcttctaga atctgcaagc atagagctac gtgacaccag taccagcagt 175680
accaccacgc atattactct agaaggaagc acagaaatta tcaggtttct tctcttttac 175740
tttgtatcat ggacaaataa gtaacttgcc cagggccata cagactgaat cccatatctc 175800
cactgagcca tttggttttg atgggggtgg actgaagaga agaactttaa aaaatactat 175860
tggaagctg aactggacca gtgaccagcc tctggattcc tgtgatgatt tgtatcagtt 175920
accattttga atatcatgca tatgctatgg tcacagatct cttaatgcat cacaaggaca 175980
gttggaanaa aattcatttg agattaattg gtactgtgta ttttctggtt gtggcttttc 176040
tgcttgtct gtagtttaca caccaatcca tcaaattatt tccttccttt tctttttct 176100
tccatgttag gtgtctgtct ggttcctccc tctttttca aagagaggat caactttctg 176160
ccccagatcc tactttctcc ttatctgttc tctacttcat tttagtaaca tttctgtgca 176220
gacagcctaa cagacctgac ctcatatctc tggccaggaa gtttttactc aaatactttg 176280
acagtgtttt actcatctaa aagtgaatgt gatccctaga caagtatgag gctgaagggtg 176340
cgtctcattg gacctcacat gtgagcatac gtacgtggga acatgggggt tcttttacag 176400
gtaaagtcat ggggaagaca agtcataaac cacagtgggt tctcaaaggc agtgatagag 176460
ataagatgat gaagaaactc ctgtcttctc agtattcaca gttttgtttg agtagggatg 176520
tctggaaagg ggaggagtat aatgctaacg ttttgccctg aagggtttta tgagttgctc 176580
atatattatat atcatgcata tcatttggtt gtgtcctaac tcttgcttaa ccattgatag 176640
tactgtatgc gaaactccac attttgatgt actcttggtt ttagtgatta cctggtaatt 176700
ttgccttccc cccattctta cctatcctaa tatggcctct ttttttagcc tttccaggta 176760
agcaaaactcc aaagccttag tcgttggttt gaggaactaa ctttaaaatg tatctattct 176820
attgaaaatc ttgttgcttt ttccgtgag gataaatagc agtgaatcag ctaggagacc 176880
tttctggtaa cctgtcacc ccaatgtaga cactccattt tgatttgct caagccccct 176940
taatagatga agggttggtt tttgaaaatg aaactgtagc ttgttttagta aaattgcttg 177000
tttctgtgga ggcaatgtgc caagagtaga agcatctatg ttacagctgt aaagctgtct 177060
gggtgcctctc aaacaataac tttgtcagtt catttttatg gctgagaaag tagcagtcta 177120
ggtgaccaac tttctcataa ttgcttgggg gtgtttactg actgcccttg atcagactcc 177180

aaacacttca gaggtaggag agcctaacct attttagtc gttatttacc ctcagccctc 177240
agcctgccct ttgtttttta cttacaaaca aaagagtaaa agcaacaggc tggctctgtag 177300
gaactctcag ttactttcct ggccgcttct gtgtggtttt aggtaagaca gagactggaa 177360
ctatgtacat caaactaatt atctcagagc cttttattag gtccaagccg ctggacaact 177420
tagaagattt ttattaacaa tcaagactct tttgtaaaat taagttaatt ttaggagatt 177480
gatggtccct tccagcctga cactggagtg atgatggagt gagtgagcag ctttctagat 177540
tgagagaaaa gtagcatcag gtagataaac tgtgactctg tgttttatgg aatatttggg 177600
tcgttttttt tccatttcca taatcactct tgattttcct tagtagttct agtccataca 177660
tcctggacat ttctttcttg cttttggatt ttaagtgcag gagttaaaag aactaagcta 177720
gtaaacacaca ttaggatgtt gtcaataaaa tgcccttaca atgttggtta agactttgct 177780
ttatggcaag cactcttgca ggggcaatgg cagagtcaac cctgagagta gttaaaaggg 177840
atcctctgtg gtttgctttg taagcctcac taaagcaaca ataattgaaa tccttgaaat 177900
atattgagta atgatatgtt ggtaaagcaa tacatgatta ttacttgtca tacaactttc 177960
aggttgggta tgtttttcat gttctttcat ttgtaacaga tgaataatgt aaaacagctt 178020
gtgaggagta caatgacgtt ttgttgctct gttaataatt tcagcactat ttgcaaaatt 178080
gccctgctag agcatgacct aggaattgta aagcggaaca caaataaaat aggaaatgtg 178140
tatttgccca tgaattcttc gtggacttgt taaaaaata cttgtttgct gtccgtctct 178200
ttgtcactc ctttgtcccc actgagagaa gagggccttg tggccaggca aatgtgatgg 178260
aggtagggagt acgtgaagga agagtagaca aggttttatt catctctgtt ccctttcata 178320
actcttccta agagcagaga aagctgggta gagaatgaca ggcaaccctg ttaaagactt 178380
gggggcccgg cgcggtggct cacgcctgta atcccagcac tttgggaggc tgaggcgggt 178440
ggatcacctg aggccgagag tttgagacca gcctgaccaa tatggtgaaa ccctgtctct 178500
actaaaaata caaaaattag cctggcatgg tggcagacgc ctgtaatccc agctacttgg 178560
gaggctgagg caggagaatt gcttgaaccc aggaggcaga ggttgacgtg agccgagatt 178620
gcaccactgc agtccagcct ggactcaggg ccagtgcagt gaataaattc tgcctcgttc 178680
ctgctgagac ctcccttagt tgctctgctt gcatcaattt ttaatgagca atctttctga 178740
ttcttgtctc taaaaaatgc gtaaaactta gtatgattat ttaacatctt agtcttcatt 178800
tttacctcgg ggcatttaaa atttaaataag cttgtttcta ataagcagaa tagggggtaa 178860
tttttttacc ctcaacaagt ttgtctagag gataccacta ggagttatac tcacctgttc 178920
ctattcatct ctccctggaa ctccgtcttg cgtttggtat tagctgaaat gctaatacgt 178980
gctctttact ctgtgtgaga aagtctgagg gcctctcgga tgcccgtcat gggccaaaga 179040
gaaaaaaaaat gctgggatgg tttgctttta aggttttgaa atgaagcact tgatgctctt 179100
tctgatgcct ttgttttaat tttgtgttg atatttgcaa ggactttact tgttaaatat 179160
cagaagcctt ttctcagtat tattgagttg tatttgata attccttagg gctttaatgt 179220
ttacaacgtc ctggtttaag tataaataag tttatctttg gattacctgc cgttccaaac 179280
ctgacattaa agatcaaaac aaagaaagat gggatcttag tattcattta aataagttta 179340
actggctagg cacagtgact cacacctgta atctctgccc tttgggtggc tgaggtggga 179400
ggatcgcttg agggccggag ttaaaggcca gcctgggcag catggtgaga ccacatctct 179460
acaaaaaaaaat acaaaaatca gctgcgcatg tagtggttg tctgtagtcc tagctactta 179520

ggaggctgtg gtgagaggat cacttgaccc caggaggttg aggctgcgtt gagctgtgat 179580
catgccactg cactccagcc taggtgacag agcgagaccc tgtctcaaaa taaataaata 179640
agttttaaag ataaggtaat cctgaatgtt gtttatttgt agagtaagta aattatgttt 179700
caaattggga caaggatgat aagttaaact tgaagagcag agtcctgaga ccctgggaga 179760
ttcagcttta ccgtcagtct ggatgtatgg aaccactat tttttgtttt tccagagatc 179820
aatttcttgg accctttctc agagatcttc tacctaactc ttcaattatt tctgttgctg 179880
gatcagactt tgaccaaatg ctcagtctgc ttgagttgcc tgggctatgt gcctgactcc 179940
atgctgagat acacagaaat ctgaggccaa aagctgggtc tcccctcccc ccacatggtt 180000
ctgtgcacct gtgcattact cattccgcat gccattctct ccataattaa gaacagaaat 180060
gtttgttctc gtcaatgtca ttgtgtcctt ggcatcctgc acaaggtctg gcagttacat 180120
tgggttcaac aaaggtttgt tgaactgaac aaagtaacaa cgaagagttc taaaaactgg 180180
agttgaagat tatactacaa gcctgtttcc tggtagctga tgtctttgac agtcttaaag 180240
cttgcatctc tgtagccctg aatttaaate aagttctttt tgaaccatg ttaggtcatc 180300
atgcctgctg tgaatggatt caccagcttt ctaccattca ttgctagtta ctgaattttg 180360
aatattcttc cccacccac tctacggata attgttattg tccagctcca gaggctcttg 180420
cctctgatga aacaattgct gctgctttat gcagtagttt gttgtttatg tatgtgttaa 180480
aaatcttctg tgtgacttct aattccttac atcatcttgc acaatgagtg ttgattgaat 180540
ttaataaaac acaagctaag aaaagcatag tatttacaca gtaagtgtat ttacacagta 180600
agtgtatagg tttttttttt tttttttttt ttttttaacc atttaagcct aaaaacaact 180660
tgataaagta gctaattggg tagattcctc aatttcaatg aaactgagga aaattgggat 180720
ttaagaagct tgtcttatgt gagaattaaa ccctggctct tctgctcctg atgcccttga 180780
aacagctaag taacaaaaca ggttcaaaga ggaatgttg aaagaaaaga cttgaatttc 180840
aaattggcaa gacagaattg ttaactaacg ccggccttgt gatttgaaat ggcaagtga 180900
gaagatgatg gctaccctta ttaagaatt ctatcagcaa ctgagttttg gttcttggtg 180960
gtgatataca ttaaggtttt agcaggaaaa ttagtcatg gagcaatttg ttcttttggc 181020
cacttggtcc tttttaaaga caatgactgg accagactag aaattcttga aataaagcca 181080
atgctagaga aacggagatc gactttcaga aacaaaaggc tggctccttg atttacagct 181140
atctgaggac atcccgaag ttcgcacacc caactttcca agatttccta gaaattgggg 181200
aaacagaaca ggtaatctgg ggagacacag aggaataggg ttggggggag tagacaacta 181260
tgacaaaacca gccacccttc ccttgttctt tttattttct ttttttttaa taaccataat 181320
taggttatcg tgaagatact acattttcaa gaggaggata ttcttgccaa gctacaacat 181380
ggaaagatac tttagaaaaga aagaatgtga agagcaaaaa aactcacttg ctcatctacg 181440
aaactgtgta actcatttgc tcatttggcg tctgtggtga atgattacac tgtgttaacc 181500
tctttgttca catggtatct ttcttctact ggggcagtgt ttttaagttgt taagatgtta 181560
ctcatcaagg cacagtgcta ggcactttat atgcattaca tcttccagtc cttaaacac 181620
ccttgaaatt agcacctgtc atcccttttg gtaggcaaaa agtgttgatc agacagtttt 181680
aagtaatttg cccaaggctc atgctagaaa gtgatggagt ccaggtgcaa acccaagcct 181740
ccctagcgcc ttctggccc gtttcctctc tgggtggatg cccttgggaa gaagtagttt 181800
tgggttgaga gaccagtatg ccttcctca tttcacctga gccagaggaa tgtgccatca 181860

gtacctagct tctgtgtgaa aataacacct ggaaagaaga tgagtttgcc agcagcagtt 181920
taaggaacaa gagatcttac tttcaaagga aagtgttaatt agaaaaagaa ggagaacaga 181980
gttctcgtcc ctgttggtcc atctcttgcc tgctctttcc tgggctggtc agcttgcttc 182040
tgggcctcag tttgtttatt tgtaaaactg tgagacttct attatatacct aagggccttt 182100
gacctcctca gttctgcagt tactaagggt tccacaagat aataatctct ttaaattcttg 182160
taaaatttat acagtgcctg aaatgcctcc ttgtgtttat ttatttatat gtctgtatcc 182220
ccacgcagtt gcttgtggat agacaatgca tctgttggct tttgcatagc acagtgtcta 182280
gaaatagtggt ctttgcaaat atgaatgtat atggaataaa aatgtgctct caagagattt 182340
atatgccgtt gctgtttggt agcttgtag taaccccagt ttactatct tatctttctt 182400
tggttatttg cataattttt caattctttt tttgttaagg tgaaatgcat agaacataaa 182460
attaactcat ttagtaaata cacctattca caatgttatg caaccactac ctctgtttcc 182520
aaaatgtttt tcatcacccc aaaaagctgt acctattgag cagatgctcc tcagtcctgc 182580
aaaccttcca cccaccctcc tgctcagcc tttggcaacc accaatctga gttctgtttc 182640
tgtagattca tttattgtga atatttcatg taagtggagt gacacaatat gggtagcttt 182700
ttgggtctaa tcctaagtct ttcaagcttt gtcagcttc tagcttgtag tagtgcttca 182760
ttccttttta tgggtgagta gtattctatt gttgtacat accacatttt atccatccat 182820
cttctgatgg acatttcagc tgtttctatc ttttgagtat tgtgaacatg aacacatgta 182880
caggctgcta tgaacatgcc ttagatgtg tttgtttatg tgttttcaat tctcttgat 182940
atattacttt caatggcaaa aagcaattat tttgtacca acctaatata actaaaagtg 183000
gaattagtggt gtcataaggg aattttacat ttaacttttt taaggaagtg ctacactttt 183060
ccacagtttc tgttttactt gcctaccagc agtgtaaaag tttccaattt ctccacaaac 183120
ttgccaacat ttgttatttt ctctgtgtgt gtgtgtcttt gtcttttaat agccatccta 183180
gtgtgtgtga agtggtagct catcatgggt ttgatttgta ttttcctcat gattaatgat 183240
gttgagcatc tttttatgtg tatgcatgtg tttgtgtgtt gactatttac gtattatctt 183300
tgagaaaatg tctattcatt tagccatttt taagtgggt tgtttgtctt tttgttgagt 183360
tgtgagagtt ctctctctat tctggataca agtcctttat caaatatgat ttggaaatat 183420
ttttcccatc ctataggatg tgttttcatt ttcttagtaa tgtcttttga tacacaaaag 183480
tttttatttt aacgaagtgc tttttatcta tttttgttg cttgtacttt tgggtgtctac 183540
ggatctgttg ccaaatgcag tgtcatgaag atttacttct gttttcttct aagagtttta 183600
ttattttttt aagcttctat aagtaggtct atgatccatt ttgagttgat tttggtatat 183660
gatatgagat ggggtccaag ttcatctttt ctgcctattt ggggtccctg gaattttgat 183720
aatattacat tgactctaga tcactttgag tattattgct agcttaataa taaatcttcc 183780
atggatgggt gtggtggctc atgcctgtac tcccagtact ttggaggccg aggagtatca 183840
cttgagcccc aggagtgcga gatcagctg ggcaatatag tgagactctg gctctattaa 183900
aatcaatcaa tcaatcagtc ttctgtttca tgctactatt tagcaatgtt ttgtagtttc 183960
agtatacaaa ccatttactc cattgattaa atttatttct aggtatttta ttcttttgga 184020
tgctgttggt attggaattg tttcttaaat tttctgatta ttcatctctg gtgtgtagaa 184080
acacaattgg cttttgtgtg cagatatgat acctgcagc ttactgaat tagtgtgcta 184140
gctctagtaa tttttttgtg ggatctttga gattttctgt atgttgggat atgtcatatg 184200

tgagtagata aattttatTT ccaatttggg tgcctttctt tttcttgcct aattgttctg 184260
gctagaactt ccagtacaat gttgaatctc agtggtgaag gtcagcatcc ttgtctagtt 184320
tctgatgttg ggggaaagtc tggttcatat agtcttctgt ctcatagaagt cagagcttat 184380
caaagcatgg tccctagaca gcagcatcca caccacctga gaacttgTTa gaaataactca 184440
ttcttgggga ttccctctaa actttccagt tctgacactg tgcggagtgg ggcctagcaa 184500
tttgtatTTt aagaaacgct ttaggtgatg tggatgcaca ttgaagttga agaaccactg 184560
tagcagagtt cgaatttctt tgaagttagt gtctgtactt tattttcttt gtattccttt 184620
tagttccctt gtgggattaa tcagtgttga ataattaaaa aaaaaaaaaa aaagaaattc 184680
agagctaacc aaagtgccta cattatctct tagcttgtgt aagagtcttg agtcactatg 184740
aatggTTaga gattcatcat tagacattta tgagattcat cagaagatct cacattttgt 184800
atgcagtatt agaccattg caaacagctt aagtgtactt gtatttagac catttgTTct 184860
gataattact ttcaccatta ttatctgttt acctactagc tgtggcctta tagctacttc 184920
tgccagcaag aatttctgtt cctcagcga ttaaaaagat ggaagggtca cttttatagg 184980
atatattgga ttttatcaca tcgttatttc atctttgcct tattttctca ttagttttat 185040
cttgcTgtgt tgtgatatca actcctttgc atcctttttg agcaagacga tatttaaate 185100
aattaggaaa aaatgtaate tattgcaact aagggtctatt gttgaaaaat agccatttag 185160
tcatacaagt accagtttat agacaagtcc aataattata tgaattcatt acctgtttac 185220
atgtattaca tgaatactca gatgataaaa ataccattta aacgtgcctg aaattataat 185280
ataattgatt agtttatggc tgatcttttt ctaagacttg ttttaaata tgaatttatac 185340
cctggattcc cagttgccac cactttgaga tttccaaact ttatttgtaa ttcactaat 185400
tagtctagtt ctgtctgctc ccagaatggg tgaatgttgt gaagatagcg tctgagatgt 185460
gtgagctcta ggtcagtgg tccaaccgtt ttggcaccgg ggactggttt tgtggaagac 185520
aatTTttcca cggattgggg gtgagggaga ctgtttcaga atgaaactgt ttcacctcag 185580
atcatcaggc attagttaga ttctcataag gaatgcctac atccctcttc acgatagggt 185640
tcgctgctga ttaggaatct aatgcggctg ctgatctgac aggaggcgga gctcaggcag 185700
taatgctggc ttgccactg ttcactctct gctgtgcagc ccggttccta acaggccacg 185760
gaccactatt agtggttggg caccctgct cttggggatc cctggtagca gggaagaaat 185820
agaggatggg cagaatgac ttgcagcctt ggtgcgggct caggagctct ccaagagctt 185880
gtgtggctct aagaatacaa tgttctgtgt ctttctttt gtctctttga tgtatgaata 185940
ctgtcataga atcattgcat taattacat tgattgaata ataaaggctc tccaacgttt 186000
ctggttcaag gtTTaagtaa atgaaaaata aactcattaa caaatgctag cagactTTta 186060
agactTTtag gaactTTagg aagagaaatt agtTTTTaa ttagggaaag attacaataa 186120
tattggacat tctcaaacac agttgagcag agatagtaaa ctcacagatt gggaaataaa 186180
tgTTtaggaa gacaataact tcttttcgta ccactatggT gaatgagatt tatttttgtt 186240
agctTTtaaa ctccaaattg cttatagttg taatgTTta tttcagaaag gagaggaaact 186300
tggggttcta aggcaaggta gagTTTTga aactattagt gcatatttat aaatgtcctt 186360
tgaaatagtt ttgatgacag tgacaaaagg gggaacaaac atgttaaagt catttggtc 186420
ctcttgaaat caagactgtg taaaaaacct tttctagctg taaatcacat acttgtccta 186480
cattctTTaa agcattttac acaaatgact ttaacagttt taggggtcat gcctagggtt 186540

aagagactat ttgcatggta aacatttttg tgattaaaa gcaatacttt attgaggtgg 186600
tagcacctct gttcacactc cgtactgtga aacattttat ttttacctaa tgaggaagga 186660
ttgttcccta agtcaatgtt gtaccaagtg tatacttggt gattttatgt tgcattggta 186720
tggaactatta aaaagcttta gtacttgtaa tagtaacaaa aaaattttta aaaagcaacc 186780
aaaactatca ataaaaattat aaaaaccatt gtaaagaata atgataacta gtaacatttt 186840
gatgagtgat tattgtgcca tgcactgctc taagcgcttt tgcacgttat gaatttaatc 186900
tttaaacctg accatatgaa gtaagaactg ttattctcac ttatgactat taggaagtaa 186960
ggctcagaaa ggctaagtga attgttcagg gtcataccac cagtgtgaat agtgagctgg 187020
ggaataaaac caggcagacc acgctcttaa catctgctgc atcgagctgt gtacatcagc 187080
ccttgaattt cacagacagt gctcaggatg gcgcagacat cccattgttt atgatttatt 187140
tttaatgaat caattaaaa acaaatattg agtaaataca caactctctg tatggctatg 187200
tcaaaaatgc tgaagctgac gggaaaaatg gttttggaaa ccaatgcctt cagcgattgg 187260
tggtatgtatt cgtttaaatt atacttaaga attaaattgg gtcatgcagt gatcgatttt 187320
tatgccattc tcttcttttg ctgtgtttat tttttacagt tatagagatg atcagatagt 187380
ttagtgattt ggtgtattat cctgaattt ggattgaatg cttggcactt ggaatgttag 187440
acaaatatac aaatgttctt ccctgctcct gttttcttct ctatttcaca gacttgttct 187500
tatgtccacc agtgtccctg tccctttttt ccctactgag tcctctcctg tgaagtgatc 187560
ataacactgg ttgtactgtg aagtgaaga tccattgtat gcacatttaa atgcagcact 187620
ggatggcagg atctgccttt tgccaaataa agtggtgtat ttctcttggt tttgttcca 187680
gctgagcaat tttcattgcc gacagcaca catacattag gataaagcaa ataaacaatg 187740
caaggcactt ggagccagga agtcccatct tggactagaa acacaaagt tttctgttga 187800
catttgggag gagggctgct aaataggcga gccagccacc aagtagaaaa ccagtggcca 187860
tgaggttctt gcacttctag ggaaaccatt tgtttaattg ttagatcttt gaaaggtgtc 187920
cgaagtgtat tttgatgtaa cagcggccag tttctttgta attaaatatt aactcaaac 187980
tatactcttg gtaattgtta acctgccat tcgttgtttg ccttagacat gtaattaaca 188040
ttcattgaat ttagcttttt gttgtgttc acgtcttcta ttaactcata cacaattgct 188100
tgtcttctgt ttttaaaaac gtttttggga agacagagtc ttgctctgtg cgcaggctgg 188160
agtgtggtgg cttgatcatg acttacggta gcctcgacct cctgggctca agccatcctc 188220
ccacctgagc cttccaagta gcgaggacca cagacacgt ccaccatgcc tagcaacttt 188280
ttaaatTTTT tgtagagatg ggatcttgct atgttgccca ggctggtctc aaactcctgg 188340
gctcaagtga gccactgcgc cgagccttgt cttctggttt gttgaagcag taagtcagac 188400
aatatttgct acaataatgt ctgtcaaatg tttgtgactg gccataaaaa ctccagcacc 188460
acattcatct gaaggacact gctaatgaag gccactcatt ttgctgttgt catctacctt 188520
atcgtatctc aggacatcca gcttaatctt tttctattac gtttgttctt cttgggagtg 188580
gtatgactac ttctatgaag tccaacaca agatgaagag tggactcctt ttgaatgtgt 188640
agttaagaca gagtatgttc atctttcagt tgcttgccag caaagatcag tctctgtga 188700
tcaggagaaa ttccttcttt attctggatc ttggcctttg gattttctgt tgtgtccaag 188760
ggttcagcct tgagagtggg gctttttctg taaggacttt tacgaaaatc tgcatttttg 188820
tcgtggttcc atcccagatg gtggatcaga aagctgaatt tcctactttg aaacaaattt 188880

cttggttaatt taatgcttta ctttgaaaaa tccaagtaaa tttggcattc atatttttaa 188940
tagttcccta ttttaaaata tgatctaggc ctgatgtggt ggctcacacc tgtaatcgca 189000
gcactttggg aagctgaggt gggatgaatta cgaggtcagg agtctgagac caggctggct 189060
aacgtggtga aaccccgctt ctactgaaaa taaaaaatt atctgggcgt ggtggcaggc 189120
atctgtaatc tcagctactc aggagactga ggcaggagaa tcgcttgaac ctgggaggca 189180
gaggtttag tagagccgaga ttgcgccatt gcactctagc cttggcaaca agagcaagac 189240
tccgtccaaa aaaaagatct atttttttcc ccctgcctta ttcagttggt ttggaataat 189300
ttaaggatct cttctatttc aaattatggc atgttacagt aatttattaa aaatgataat 189360
ctaactgaaa atcataaacc caaagtttgt aggagctttt taaaccagaa tagaaaataa 189420
ttttataatt gatttggtta aatattgatt aattatacat tcttttaaag gccaaataaa 189480
aagaaagaaa ctttttggcc cactctgtta gactgctatt aactgagcaa tcttggttta 189540
tggaacttga ggttttggga atcattaaat atttataaag atacttatag ttttgggttt 189600
tttgtttgtt ttctttgagt tgtatagttg gagaattcct tttcatttgt ggtttcaggc 189660
ttagctttta ggcaatgtat accaactttt gaagaaagat tgtcaaagtg attaattatc 189720
ttcagtatgg atagtacatt gaaaacactg attattttga atgatgcagc tttcttcagc 189780
tattaacatc tgactcatct cttttaggac ctgctgaggt tcccatgatg tcaccaatg 189840
gatccattcc tcccatcat gtgcctccgg gttatatctc acaggtaatc catttgatgg 189900
acttctctac tcactatgga cactacgtta ctccaacaga gtatacgtt aggccttcaa 189960
gccatattcc aggagttaat ttaggtatca tagtgctaga tttgccatca ttttgtggca 190020
ccacatggta ttacttgtgt tttgccactt gacgtactgg agagccagag aaaaggaaac 190080
gtagaaggcc tactagactg tcctctggca agtggcggtt ttatgtttga ttgattggtt 190140
gtgatttctt tatggagtct cctgctttag aaatttcctt ccacctgtaa tacaactttc 190200
tggaagaaaa ttcatagatt tagttagta acatattaaa ggagacatag ctcacataaa 190260
cagggcctgc gttctgttat agatggaaaa aaatggagtt ccattgctcc acgatgtggc 190320
accacctggg cttggtgaat tactgagtat gatgtgagaa cttggctggt tgcatttaaa 190380
tttctctgag gtttggtttt ctaagtaaaa tgatggtaat aggaatctca gagatctatt 190440
ggaagtgtaa aaaagcttaa aggatgaagt tatgttcctg tgcctgaatg aggtataaaa 190500
tgttttgcac ggctggaacg ttgtggacat ctgtatatac tttagatttt tgcctagcc 190560
tcagcacaaat atacaaatct cctgtttctg cacagctacc tttccaaata cctaacaac 190620
tgtttttctc tctttctgcc tttttgttc ttctactta gcataaaatg aaaaatattt 190680
acaattttac tctccagaga tgataatcac tgtgctaacg tttttttgat tatatccttc 190740
cagatggatt tttcttttct ttactcttct tctgtctctc agcctctgct tttaaagtgg 190800
tttaaaaaata tgtaattttc agtttttaat gattttgcta ggatgaaaaa ttggcagcta 190860
cataggaaaag ttgctgaagc agaggcagga atcaaagatt tatccttctc tgatataaaa 190920
acttaaccgt ttcttcatgt gtaagacata tcgcagctac tataatttca ttttttccat 190980
cctttttttt tttgtgagcc aatttgactt tattttatta ttacatagcc agattgctgg 191040
ccagttttcc tgctgttgca aataaatgac ttattttaca caagtctttg taaataagaa 191100
tcaactggagg gaggatgggg tgtagaacag gctcttcag caggatatac agatgatgga 191160
tcacattcac acccgagtc agttaacaga aaagaacaag gaatgtagaa ttccattatg 191220

tctcctgctc atttattttg aggacgtgtt tcattccatt gaacagagta cagttctcac 191280
cactgggaca gcaaaaataa caccaccttt tatgctaaag gtccatttat ggagtaccag 191340
ttaaaaattg aacattctac tggagagaag cttcagtgtg ctttttcttg ctagtagtat 191400
tgctgggggtt gtattaaatg caaaaatatt tgttgcatgt actaggagaa atgaagaatt 191460
tttgacttgg atatagtctt gattctggaa aactgtagaa aatccaaata gaaagggtaa 191520
aagtagagct gtaaacttgc ttgtatgaaa ctgatgatgg aagcgtgttg acgttctttc 191580
ccagctgata gttatggcaa aatatgctag acaatattgg aaaaatagtt aaaatggaat 191640
aatttgaatt gagaaaagga aagaagcagt ctgtaaggca tgtgaatgac taacttcatt 191700
tcagttgggc tctgtgacca gaagatgggt gcaaagttaa atgaccttca atgatagtat 191760
tatatctttt atgacatgtt acagtagagt atctgaaaaa gattgttaat atgaagaaaa 191820
tagaattgag aagccaatag gatgtgtaca caacatcatc ttcaaggctg gcagtacaca 191880
cacttcagtg aaatgaggaa ggcggaacca agtataaaat gtcttagttg tctggttatc 191940
accaagagat aggagcaaaa tacattgttg tcatgcagtt gtagaaagaa agaaacacac 192000
acacacatac acacacactc tccccctgca ggctggacat atgtgagttg tgctcagtac 192060
taatctgtcc ctctgctagt tagttctgta cagttatccc cacagtcctc ttctataaat 192120
acacatgact ttcttgttca ggtctagagt tggttgccat tacataccaa tgtagttaa 192180
gttctgtagc atggtgtata tgatatccat aacactcaac actgcttacc tctcaagagg 192240
cacctttacc tgtcaccaca cggctgtgat gttaaaccctc tgttccctag ataccttgag 192300
cctctttcca gataaacact ttcatgtcca ttatttcccc ctttctcttg aatactctag 192360
agcctttctt tgacaattca gttgttcttt ttgggtgcctc tcctcagtg gaccctttta 192420
gaaccttcat cacagaaata gttgttctgt ttttcagca tctgtgattc ttttctccc 192480
tgtcgtagaa tacaatgtgt atttatagtc atctccaaga actcatattg cctcatgggg 192540
attgtatctc agcatctaga atactgcctg acacaaagta ggtacttggc taaatgtttt 192600
taaagttaaa tgattgtcta agcataagta agtacaggag agattcacat atattcttca 192660
atgatttgca tgtttaaaga gagtaataata atgcttaata gatggaaaat aatatgagac 192720
tgatctatac ctgcaaagaa tgaaatgttc tgaatgtgtt tttaaaagag agaggaacgc 192780
caagacagtt cactggagaa aagaataatc ttttcaataa atggtgctag aaaaactgga 192840
tatccacatg caaaaagagt gaagtgaac agctacctca caccatatgc aaaaattaac 192900
tcaaaatgga ttataaacag aaatctagga actaaaacta taaaacttga gatacgaaat 192960
tttataacct tggattaggt aatggatttg tatatgtgac accaaaagca tgagcaataa 193020
gagaaaaaaa tagatatatt tgactttata caaattaaaa atttttgtgc ctcaaaggac 193080
accgttaaaa agtagaagag gcctgggact gtggctcaca cctgtaatct cagcactttg 193140
ggagaccaag gcaggtggat ctttgaggt ctggagttcg agaccagcct aaccaacatg 193200
gtgaaacctt ttcttacta aaaataccaa acaacaacaa aaacaaaaaa aaccaggtgt 193260
gggtggcacat gcctgtcatc ccagctactc aggaggctga ggcaggataa tcacttgaac 193320
ccagaggtga aggttgcagt gaaccgagat tgccccactg cattccagcc tgggtgacag 193380
agcgagactc catctaaaaa caacaacaac aacaacaaaa atggaaagaa aattcacaaa 193440
atgggagaaa atatgtacaa ataatatgtt tcagaaagaa cttgaatcta gaatatataa 193500
aaaccttgta actcaagaat taaaaaaaaa ataatttaaa agtgggccaa ggacccaaac 193560

agacatttct ccaaagaaga tatacaaatg gccaattaga acatgaaaag atgctcaata 193620
tcattagcca tcagagaaat gcagatcaaa accacactgc aataccttaa catgctagaa 193680
tttctacagt caaaaagaca ataacaagta ttggcaaggt tgtaggaaaa gtggaataca 193740
ctgtatgtgt taatgtaaaa tagtacatct gctctggaaa acaatctggc agttcttcag 193800
atggttgaat agagagttgc atatgacca acaattgcac tcctaggtat atacctgaga 193860
aatgaaaata tatgaccaca caaacacttg tacaggaatg ttcacaggag cattgttcat 193920
aatagcccca aagtggaaac aacccaaatg cctatcaacc tatgaatagg taaatgtaat 193980
ataatatttc acacaatgga ccataattca gccataatga gggataaaga actgatacat 194040
gctaaactat ggataaacct tgaaaacagt atgctaagt aaagaagcca gacataaaag 194100
ccacatatgt tatcattcca cttatataaa atgtctgcaa taggcaaatt catagagaca 194160
aataaatcag tgggtgccag gagttggggg gaaggagtaa tgggggtatgc tgtttctttg 194220
gggagataaa aatgttcttg aagtagatag tgggtggtgt tacttaactg ggacactaaa 194280
acctactaaa ttggacactg taacaggatg aattttatgt tatataaagt aaatctcaat 194340
aaagctagta caaaagaagg ggcgagggga agacagtgc acgtcccagt tatgaatcga 194400
gaaacaatgg ggcagctggg aaaatgaccc cactttgaag ttattggtgg tggatggtg 194460
aactactatg aatatgtgc actgtgctaa atggtttatt tttatgtcta gttttcactg 194520
tcccatctct acataatgag gatgctgagg cccgggttgg taccaggatt gcagcctatg 194580
catttctgat tacagtgacc tctttccac tatgatgcaa tctcacagtc tgtggcagaa 194640
ccttgtcctg acggttttat tgctttctgg cagtgtgagt gtgggtgtgt gttgtgccta 194700
cttatgtatc tccatttcta aaacaccagc tacttgtgca tggatggtc tttatttatt 194760
taccttttta aaaaaatttt tttgagaca gagtcttgc ctgtcaccca ggctggagtg 194820
cactggcgtg atcttggctc actgcaacct ctgcctccca ggttcaagcg attctcgtgc 194880
ctcagcctcc tgaggaggtg ggattacagg tgggcaccac catgcctggc taatttttgt 194940
atttctagtg gagatggggg ttcacatgt tggccaggct ggtcttgaat tcctgacttc 195000
aagtgattca catgcctcag cctcccaaag tgctgggatt acaggtgtga gccaccacac 195060
cctgccggta tggcttttaa ttgtaagaaa attgaagagg gaggcaagta aaccaagatt 195120
ttacagtaat aactctaate tgattgaata gagaagttct tgattatagc agatttgttg 195180
tataaatagc tgaaagtcct ttaaagataa attaataaaa ttggtcaaat ctgacaaaat 195240
acaaatgtca ttaataagca gataataaac tcctgaagtt taacagacag ctgtggaggt 195300
gccatcaaca taacaagctt tgttttctta ggttgagaag ggccgaattg gtggacttta 195360
cagatactgt ggacttaggg tgcaaaaaca gtggaatcct gtcatttcag ctcggtggtt 195420
tctctgatac agtaggttgg gggaagtggg gtgttttgtg cttatttttt tagtgggatg 195480
agaagtaggg ggttcttttc aacttgagag aaaatataga ctttttttta aattatgaga 195540
aagtggattt aggtaagcgg gaatttaate ttatcacagt catcatctcc attatgtaaa 195600
agcatttttg agtgtgatta gagttgaaac tgaaggagaa catggacatt acttgagag 195660
gccttccttc aaattccacc ttggctactt tctatgtaac ttgataaat tctttcacca 195720
catacgcgaa cacctacttg atggggtaga gagaagaatt aagagaagtg ttatgtgagg 195780
tgtggcactc agtaagtagt agctattaca atgaaaaaga ctgttacaac aattccaatg 195840
gaagtttggc agagcttgcc ttcctaaata catattgaaa tcacatgatg tgaagcaaaa 195900

ttttcctttc attgtatact ggccatgggt ctctgttttt taacctcacc attaaccttc 195960
tgaataatatt atattgtaaaa atttcttaag cagatgcttt gagttttatt ttccatgctt 196020
ccatagtaat ttatgacaca ttttttttca aatgttatag ggaaaacttc atattgaccc 196080
aaagatttaa aaagcatatc aaaagaaaaa gtgaaacatc caagttaatg ttctatcatt 196140
tgaggaaacta ctcttctttt tccagattaa ctgttgtaat cccaaaactt agtagtcaaa 196200
ataaatatatt ttgttgtag agtagaaaaga acaaaaatag cacattggac tgttttgggg 196260
attaattaag gggtcagtac ctgttgaaat tatatatattc atttccctta gccagggaaa 196320
ggcaagaaat gtattgaaaa atatatattaa atttgggttt ggttggtcat ttgccaatga 196380
tgactgtttg gagagttggc cagaaagctg aagcccctgt ggagaaacag tggggcctgt 196440
taggtggaag cctgtcaatg cttttacccc atttcacca gccagccag ctgagctata 196500
aacattagcc tcaattgctt ccttttggtt actacagctg gggattaaac cgccgctttg 196560
tttcaccttc aatgttgtag aaatgatagc agaaaggcac atgggggatt gccctgtgcc 196620
ctgagaaact gagattcagg cccatttggt ggccaataag gggaactgga ttctctttca 196680
acactttcgg tctttcagag gaattgattt ttctatagga agttaggga ttgttccata 196740
gcgtacagag tgtgtgcatg ggggttggtt ttgtgttcca tggaaaagga catagtactt 196800
aggtatcatt tcgtttccat taccaatgga tttgaagcaa ttttattttt tatcttgtgg 196860
cttattttgt ccaaggagca gttacagaca ggggtgacaa tgcttaatta aaaaaatata 196920
ccaaggacat cccctcccct caaagtattg tgcaggtttc ctctttctga gccttctccc 196980
cgttctgtac ctctctttg atttctttcc tttgtttctg tgatcccggc attgtgacat 197040
aatagaacac aggattagtg ggaggaaacg aaggcccaag caaggctcta catccaactg 197100
tctgtgtggg tttagaaata ttaagtattt tatttgggtg tatcatttgt ttacttgatc 197160
attgtctgtc ttcttttag catttaagtc caciaaggca gggactttgt gtgtcctgtt 197220
cagtcctgtt catcattgg tctcttctt cttgaaagg acccagcata taataggcat 197280
gtatcaaaat ttggctatct gactggagtc atttttatct tgtggaggga ggcagagagg 197340
ggaaagttag catctctggg gttcttttct gatctaaaat tagatgattc tcctctgttc 197400
atattattcc ttaacagggt atcaaatgag actgtaagta agtttccaaa agcagtcatt 197460
accaaagcag tgtggcacac tcattgatat ttagcatttg attgactaga atgctagttg 197520
tcacctctat acaaaaaatga tagttgattt tcatagtagg attgacacat tattacatcc 197580
agaaatgact tcggagtcatt tagtgtaaaa tttgcccttt atattacatt ttatttaatt 197640
gcacaattat tataatctat ctttctaaat tagtaagtca ttttgtcat atgtaataac 197700
ttttttaaga aaaacacctt tttctgacct gttgggtagc aaaactttac cacgggttaga 197760
tgaattttac atttctacac attctttgaa actcattaag ttcacaaaat tagaattata 197820
taatattggt attttaatct gtgatagggt ttatctgaat atcttcagta tggattctta 197880
actttttatt gtactgagga gccattggc agtctgggga aacctttttt aaagtaaaat 197940
ataaaatcca taggtacaaa gaccagggtt ttcaaaactg gtcaattttt tttaaaaagg 198000
tgatacagta atttttgtgc tgttttatta gcacattaac aacatctagc atcagatcta 198060
gtaactataa taattttgaa gttgtgatga ttataaagat taatatttct ataactgt 198120
aatgtgatat ggaaatgtca tttttgtta gtaacaaagt caaaggtact gctagtacta 198180
ccttgatttg ctgcctacat ttataaatca gggaaatata aaattgcagt tggatgttag 198240

```

tgagtaataa agatgtaatt tctgaggta tgatccccctg aattctgttc ttcttctttt 198300
gtgggggata aggggtctggg tacctgggta aggctcttgc ccctattggg gagtagtaat 198360
agtatgtttg aaacttagaa ccatagctct gttactggga agggcccaga ctgatttctt 198420
gattcctcat gtctaattctc ataattctgag tgggtagta cagcagtaga aagaccatgg 198480
gtttcagagt attccaaaca tgggctctac actgtacagc tacaagtaga gtaaccatga 198540
aaaatattct aacttcaggc ttgccttca tttctggaaa ggtatagctg tatccttccc 198600
tgcagagatt gtctgggctg tctcacagg gtgaaagtct tgaatggtaa caacttctgt 198660
ttaaggaatt attttatgtt gatgaatat ccagttgcct gttgggttaa gtctggaaga 198720
ccctgttctg tgtattggca tcaactggaat aaaatggacc tgagtgtgcc tgagaagctg 198780
gaatgaaaag atgtgactgg ccactctctc tgtgatgggt aatggacagg cactgcagat 198840
gcccactggg gatagcttta ttcacatctc agaagcagct caactgggca caataaagc 198900
catcaaatgt ctacatactg tttgtcacct aacaaagtct gtccccta atagcatttc 198960
tgtttaatct gaaataatta tttgatccat tttagtatcg actgaaactc aatggatgga 199020
acttttttca cttgtccagt gttcttatgt gccacacatt ttttgggagg attagatttg 199080
atttttaatt ttttaatttg gttctttttg gtatttaggt cagtaatata caataaagt 199140
tgaaagaaat ggaatggcat ttccagtga agtatctggg tatgaatctt gtcaccagc 199200
tagccgcct taagttaatt tacttaatca tagctgagga ttcctcagct agaatttagg 199260
actgtgatgc tgcttatgtt agatcttctg aattttatgc aagtcaagtt ctgtgccaa 199320
tgttttataa actattaagt gatatacaaa ttgtaggagt tgttattgtc actttgattc 199380
ttatatcaag ttaatttgct gttttgcttt cagcatcagt gcccgtact gtgttttttg 199440
agccccctgg ttgagataag gcctcttggg tctctgcagt atctggagag gcttagccct 199500
ctaaccaggg aggggttcct cttgcccac gggattctct atttgagac agctctgggc 199560
tatggtaaag tagagctgta gctagctaac tgagggtc tctcgggtc tccagttcat 199620
aatatgtgtc tcttgacctt gctgaacttc cttcttaatt tagaaagtct taataattta 199680
attggccctt ccactatagt gttacataat tcaactgaagt agttggatca cagagatacc 199740
acagagatct gtgtttgttt ccattctcct gtccagccct caagggttac tgtcattgga 199800
cagtagcacc tggaaagagc caggtgtgtc tggtaaagta ctcacagttg atttcattta 199860
tatatgcctt agcagtgtcc ctgtgcaaga tttaaaactt aaataagtgt gaatagaagc 199920
ttgacttttt ttctgagtgt ataaaagtgt tcgcatgtac aaagccagtg gaaggattgc 199980
cattttttgag agtgttctta tactgatcac ctctgaaata agcctgtggg taagattcat 200040
gcccagaaat gctgaagaca agcaccagta cttcagtagc cttcagctgt gattctcctg 200100
aacagcaaca cttgatttgt taactggaac taacccttct cccctgaagt ctgtatcata 200160
cctattgcct gcaattgggt tgtgcgttaa aaattaagca cctgctgggc ggtgtgtgcc 200220
ttacaggcca gaggatcgct tgagcccagg agtattgggc tgtattacac tattctgaca 200280
gggtggccgc aataagttcg gcattaatgt ggtgacctcc tgagagctgg ggaccagcag 200340
gttgccctaag gaggggtgaa ttagctcagg tcagaaatgg agcaggtcag aactcccatg 200400
ctgatcagta gtgggaacac gccatgaat agccaccaca ctccagcctg ggccacacag 200460
cgagaccctg tctcttaaaa acaaaaaaat taaacaccaa tgggttggga aatttaagat 200520
ttctagacat aaatgagagt gctcataaaa actctgggga ctttttgttc attcatgaat 200580

```

tacctgatta gctaaaacat tcattttgat cacctataaa acagacaaaa gtaggtatTT 200640
agacttaatc actggcaaga actatttgag acagacaatt ggaattttca aggaacttgt 200700
atttttcctg attcgggaaga ggatgtctat tatcaagctg taagtactct gcaggataat 200760
cttttttggt ctcattttaa ggacttttag aaacctagaa acatcaccag tcatttatTT 200820
ttccttttga agacaacaat aatcatgttg tgtggcaaaa ggagctggtc ctaaacttag 200880
aatgataatg aaagtttgca aacatcaaat attatttcat cactgttagc catttataga 200940
tgtgaagaga aatgagcttg aaaagtactt tgatgttttc agccacactt ttaatcttta 201000
gatttgaaaa cagaaaagga agtctgtata ttagggcaat atattcaatt cttccaccat 201060
tttttaattt ttatttttta ttttttggga tacagggtct tgctctgtca cccagatgga 201120
gtgcagtggc atgacctccc ttgctcaagt gatccccga catcatctc ccaggtagct 201180
aagatgacag gcttgtgcca gcacgccag caaatttttg tttttttat agagataagg 201240
ttttggcaca ttgccaggc tggctctgaa ctattgggtt caagcaatcg cctcctcgg 201300
cctctgaagt atggggattg ccgtcataaa ccaccacagc cagccctctc ccaccatttt 201360
taagtcaagt agcttaatct ataaaaataa atgtttgacc acttactatt ataaaactct 201420
tttgttgctc ctggaacatt cttttatcct aatttttctt tcttcttatg gtacttgggt 201480
gatggtggtg agagtggca gcacaagggg ggttggttag ggagggcaca gaccttacat 201540
ttcaaactct taccctactt gaagaacaag ctgaccttc ctcttttata ttatctacca 201600
tattcagaaa tgcagaggga agagttagtg caaattgtta aagtgagtag cgatgcattt 201660
gtactcctga ttggtgagta aaataaaact gctcagctc ctataggatt aaagtagaac 201720
ttaacattgg agatgtttga tctttgtgtg taaatgcttg tgataaaatc atgcttatTT 201780
aaaataagat caggaatgat agatataaaa tgaactggat tcagattttc tgtgatttta 201840
gaataggatg tcagctatTT accagagtta cagagaaaag ttttaataat gacgtgctaa 201900
tattcttggc agataccaaa tctaagcagg tatacttaat tcttttatTT atttatTT 201960
ttatttatTT tagcttgctt tcttatcat ttactcattt aaccaacatt tactgaaagc 202020
cttctgtgtg cccagttgct tctgagggac ttgcagctgg gtgggagaga cagtgtgtag 202080
tccaagctac aggggagatg tgagcaccag cctggttggg agagtccctg attctgccta 202140
cccatccctt gactccatgc agcttatTT tatcatcaaa ctttttctt ctctttgttc 202200
gtgttctgca tgccacttt tatctgagac atcttctctt cctggaatga cctgggaacc 202260
cacttcaggc atgttggcag caatgagaaa ttcagcctga gcctgacttt tgcaaactca 202320
tttggccca gttttctgtg tccaggcaac tcaccaatg ttttttgcca ccccgcaaa 202380
ctggctgcca gcacatcaca ctacgtacat ttgtgggttc atatgtgcca cgtgcagagt 202440
ctgtccattt cctggctcat cctgggccat ctggggcagc cttttaaat ttttctttt 202500
gcctcctgcc tttcaagctt ctcttttgat tcttgtggct ttagcccag caagagtaga 202560
aggaaagagc ttcaggaagt gaggagtTT ttaaaattcc tttgaagcat ttcgattccg 202620
taagaggaac taccttttct gttagctaag acaaaaaaca aaaacaaac caaaaaacc 202680
ctcaaaaaaa tgtttttagg agatccagtt tagttctttt ttttttttt ttttttgta 202740
gggacagagt ctctctctgt caccaggct ggaatgcaga gactcgatct cagctcactg 202800
caagctccac ctctgtgtt cagccattc tctgcctca gcctcccgag tagctgggac 202860
tacaggagca caccaccgca cccggctgtt ttttttttc ttctttttgt attttttagta 202920

gagacggggt ttcacggtgt tagccaggat agtcttgatc tcctgacctt gtgatctgcc 202980
 cgccctcgcc tcccaaagt ctgggattac aggcattgagc caccgcaccc ggccccattt 203040
 tagttcttgt acacaaaatt gatcctcctt taccagttc ggtgttcttc ggtgtattac 203100
 ttctacttcc ctaagcatca ttcttcttat ttctaaaatg gggataactg taactgtatg 203160
 tgcctcacgg gattgttggg aggatttagt gaagtggtaa tattaatagt agtaattgat 203220
 gagtaagatt ttgtcatatt atgtatcagc tactgttcta ggaacttaac tctgcctgac 203280
 tcctttctgg tagagtgtgt taaagtatag cagtattcaa taagtattag ttgtatcctg 203340
 aatccttttc acatctctta atgactcagg tatectaatt ttcagcagtt gattgtttac 203400
 ctatttactt ctcaatgtac aacttctgtg taattaaaac tttgtgtaaa taatgaagac 203460
 tttgggtgac acaccagtat gaaaaatctt ggtcctgcag catactagtt gcacaattta 203520
 atcatgctgt gccttgggtt tcttcatcta aagcagggat gctgatacct aattctcaag 203580
 tgtaggggaa gttgaatgag ctggccacg tcaagaagct gacagaccac aggcactgac 203640
 tgatgtcctt ctccatctcc cgtcctgtgc tgctcctggg aactctccat cttgctgtta 203700
 tccccaggct gtttcatttt gttttaatga ttctcttggg catatttaca agaacactag 203760
 tataagacaa agattctttc tgttgacat tttgtgcctt attctctagc cacttatttt 203820
 tgtttctagg ctacaggata gcaagaatac taggcatgta gaagtttttt ggtaaacata 203880
 tactaagctg gataaaacag acttgataaa gaatcaattc ggcttctctt tgccatcagg 203940
 ccgaatttct tcattagcct gagcaaaatg gctcagtggt tgttcacgga ggctaaatgc 204000
 atcacttttt aaaagagagt tttgtttgt ttgttttaaa tcagacaagg cttgtagaac 204060
 ttaaggtaga aaaaagcgct ggattgagcc tttgtattct gaggggctgt attagtttag 204120
 tagggctacc ataacagaat accacagacc gggtagttaa cactagaaaa atttattttc 204180
 ttacaattct agaggctgga agtccaagat aaagggtgca gcaggattag ttggtttctt 204240
 ctaaggcttc tctccttggc ttgtagatgg ccattgtatt tgtccatttt caagctgctg 204300
 ataaagacat tcacaagatt gggcaattta cataggaaag aggtttaatt agactcacag 204360
 ttccacatgg cttgggaagc cttacaatca tggcagaagg caaggaagag caagtcacat 204420
 cttacatggg tgacagcgga caaaaagaaa aagagcttgt gcaaggagac ttctgttttt 204480
 caaaaccatc agatcccatg agacttattc actatcaca gaacagcacg ggaaagacct 204540
 gcccccatga ttacttacc tcccactgag tccctccac aacatgtgga aatgcaagat 204600
 gagatttggg tggggacgca gccaaacct attgttatgt acctggcccc tcccaaatct 204660
 catgtcctca catttcaaaa caaatcatgc cttctacagt ccttcaaaac cttactcat 204720
 ttcagcatta actcaaaaagt ctggccgggt gcggtgactc atgcctggaa tcccagcact 204780
 ctgggaggcc aagacaggta gatcacgagg tcaggagatc gagaccatcc tggctaacat 204840
 gatgaaaccc atttctacta aaaatacaaa aaattagcca gcctggtggt gggcgctgt 204900
 agtcccagcc actcgaagg ctgaggcaag agaattgcat gaaccagga ggcgagctt 204960
 gcagtgagct gagatagcgg cactgcactc cagcctaagc aacagagcca gactccatct 205020
 caaaaacaaa caaacaaaaa aacccccaaa gtccacaatc taaagtctca tctgagacaa 205080
 ggcaagtccc ttctacctat ctgcctatga gcctgtaaaa tcaaaagcaa gttagttact 205140
 tctagatac aatgaaggta caggcattag gtaaatacag ccattcgaaa tgggagaaat 205200
 tggcccaaac aaaggggcta taggccccag gcaagttcaa aatccagtgg ggcagtcaaa 205260

```

tcttaaagct ccaaaatgat atcctttgac tccatgtctt atatccaggt cacactgatg 205320
caagagggtgg gttcccatag tctcgggcag ctccgctcct gtggccttgc aggggtacagc 205380
ctcactcctg actgctttca caggctgggtg ttgagtgttt gcggattttc caggcatgtg 205440
gtgcaagctg ttagtggatc taccattctg gaatctggag gatggtagcc ctctaggcag 205500
tgccccagca gggactctgt gtgtgtgggg ggctctgacc ccacatttcc cttccacact 205560
accctagcag aggttcttcg tgagagtgcc acccctgcag caaacttctg cctggacatc 205620
caggcatgtc catacatcct ctgaagtcta ggcagagatt cccaaacctc agttcttgac 205680
ttctgtgtac ctgcaggctc aacacctcat ggaagctacc acagcttggg acttgcaccc 205740
tctgaagtca cagcctgagc tgtgccttgg cccctttcag tcatgactgg agtggctagg 205800
atgcagggct ccaagtccct agattgcacc cagcacgggg actctgggcc tggcccacgc 205860
aaccatttta tcctcctagg attctgggcc tgtggtgaga ggggctgcca tgaagacctc 205920
tgacataccc tggagacatt gtccccattg ttttggggat taacattcag ctctcatta 205980
cttaagtaaa tttctgcagc ggtcttgaat ttctactcag aaaatgtgat tttcttttct 206040
attgtattgc caggctgcaa attttccaaa cttttatgct gtgcttcctt tataaaactt 206100
aatgccttta acagcaccca ggtcacctct tgaatgctgt gctgcttaga gattgcttcc 206160
gctggatacc ctaaatcatc tctttgaagt tcaaagttcc acaaactctt agggcaggga 206220
cagaatgcca gcactccctt tgctaaaaca taacaagaac cacctttgct ctagttacca 206280
acaagttcct catctctgtc tgagaccatc tcagcctggg ccttattatt catattatta 206340
tcagcatttt agtcaaagcc attcaagtct ctagggagtt ccagacttcc ccacatttcc 206400
ctgccttctt ctgagccctc caaattgctc caacctttgc ctgttaccga gttccaaagt 206460
cgcttccaca ttttcagata tcttttcagc aacgtgccac tcttctggta ccaatttact 206520
gtattagtct gttttcatgc tgctgataat gacatactg agactgggca gtttacaag 206580
gaaagagggt taattggact tacagttcca cgtggctgag gaagcctcac aatcatggtg 206640
gaaggcaaga aggagcaagt cacatcttac atggatggta gcaggcaaaa aaagagggtg 206700
tgcagggaga ctctgtttt taaaaccatc agatctcatg aactttaaat caccgagaac 206760
agcatgggaa agacctgcct tcatgattca gttacctccc acctgtgctc cctctcaca 206820
tatgtgggaa gtcaagtga gatttgggtg gggatacagc ccaagcatat cagccatctt 206880
cctttgggtg ctcatgtag tgttccctt gtgcttatct ctcgtaaata tcctcttaca 206940
tagatactct tggattagag tctacctata taacctcatt tcaccttaat tatctactta 207000
aaaggcccta tttccgaata cagtcacatt ctgaagtact gagcatcaga acgtcaacat 207060
atgaatttgg ggacacacta agtcagccca tgataggtga cagactgaga acctggcata 207120
atgatctttt ccaaggttct gtgcttctct ggagaggata catgagtac agttctgttg 207180
agtcatagag ctgggaaaaa tttagatgaa gaatacttac tctgacttct gaagtcacca 207240
cacttctgct ttcttagcag cacttactag gacttagtct aatttttctc tttatattct 207300
taggctgtgt ggatgagtct tactgttgag cacttacttt ttctcgctt tgaatatcca 207360
gtccttagca catagtatgt gtcagtaaata aatagttgaa ttgaatacag gtgattcgct 207420
tgcctctgga cattgtcaca atttctcca ccacaaaagg aatgaattt gtcttttcca 207480
tagtcatcta ccaagactga aggcatattt ttttgccttg ggtgttttgg actgaattct 207540
gtctgatgtc taaatttgac tacagtgata tatttattta taaacctct ttattaaaga 207600

```

atgttattgc caccgtttcc tttgttgcca attatittgt gcattgttat tgctcctcag 207660
attttcttat tttgggggag acttaggcgt aatttcctta gatgtagatc aaagctgaat 207720
tgataacta aaatatgttg caatttatgt tatagaaaaa tggtaaaaat attcagcaca 207780
tattttctat atttctatit cagaattaat atttcagctt tttttttttt ttgagttgaa 207840
gttggagtct ccctctgtca cccaggctgg agtgcagtga cgcgatgtca gctcactgca 207900
acctccgcct cccaggttca aggaattccc ctgtctcagc ctcttgagta gctgatatta 207960
caggcccatg ccaccacacc tggctaattt tttgtatttt tagtagagat ggggtttcac 208020
catgttggcc agaccggtct tgaactcctg acctcagaca gttcacccac ctcggcctcc 208080
caaacttctg ggattacaga cgtgagccac tgagcccggc ctatatttca ctttttttaa 208140
ataaatcttt ttaatgataa gacaggcttg ggtttatcaa gaacaggttt ctaaaagggt 208200
ttcgttatgc atgcacatgt aaataaaaac cttttacaaa tcccacagaa taagatttta 208260
aaatggagct gtcaagcaat ttttatatgt gtagtcaatt tgtggtttca aaaagctact 208320
tcaaaaaaaa aaccttcaaa aagtttagtc tttttgataa attttttttc aaaccacttt 208380
gttaacaggt ccaaagttat atgataaaat ggtcaaataa attcttttca ttataagtaa 208440
tcttgtttaa aagtccagag tgttcctctt aatatttagt gagagccctg ttcttgact 208500
tcatcacttg tctatgttg tggttgacgg ttggaagttt tacactgaat gaaagaatta 208560
agactgtaaa cctctagaaa acaaggactt tacttctgtg gtccttccag gattgaatga 208620
aggttccatg aaagagaaac atctagaata cacctttctt ttttcttaat agctagtaga 208680
gggtgaggag ggaaagaaga cactgtagga taatgcatgt ttatgtcaga tggtaggaaa 208740
aattcatgac gtatttatac tgcgtgtgct accaaacagc atacagctac acgtttttaga 208800
caaaagaagt tttgatgata attatcaata catgcatgag aatttccaat gtcatggttt 208860
aagcaccac ttcacataca cctgtaaatt agcttctgtg cattcataaa tggggttagt 208920
gtgattagct tgccaaggcc cagaagagat tatatttatt aaagatcaca tgagaagttg 208980
tgtcctaggc atctgactag gaattttaat tttaaatggg taatattgtc ttattaatga 209040
actattaaca tagtagaaac atttattttg atagatttat taatgaatgt aaagattctt 209100
gtttttttta tataaggatt aatgaccgtt cattcaaact aaacctattt tgtacactga 209160
aatataacat aaacgttgat agacttgcca atctgactta agcactactt ttaaaatatg 209220
aagctaatac agttttttgt tgttgtaaag atgttttaga catgttaagt cattttattt 209280
tgccctataa tcaatctcct gaggtataat gagaaatcca tttcaatata gaaagtcagt 209340
tttatgggga ttttagattt tgttttgtt ttttaaaac aaaacttcct gtcagaatgt 209400
gtgcctgatt gtctcacata tttgattaga tcagctggca tggctccttg gcagcctggc 209460
cctcgctgcc agtttactct gtgtccctt ccttgaggc cgctgaccg gaggccatct 209520
ctcagctgtc ccagccctgc cgattctttg aggtccctga agcctttcct gattctccca 209580
tctcgtgta tcattctcta taccctatgg ctttaccttt tgatcatggg atctgttggt 209640
ttagttattc ctttcgttgt gtctcaccaa agttgttggt tcataggagc tggtagagtg 209700
acgccggcca cagaggcaat aaatatggc attgtgctgt cttcattgct tttcttgat 209760
gaataaaaaa acattcagag gagctgggca cagtgggtga tgcctgtagt cccagctact 209820
ttggaggctg aggcaggaag gtgacttgag gccagttcaa ggctgtagtg tatgatgac 209880
acacctgtgc gtagccactg cacttcagcc tgggcaacac agtgaaattt catctctaaa 209940

aaaaataata aagggaacaa agaattggaa aaagaatgca tagagtgtgg attggcttgc 210000
tttactcata acaggttgct tttccaagca tcttctttca caacactcat tatcaggaca 210060
tcttgggagc aaaagtgtcc atattgattt ggggttactt atgtttttct ttggtcagaa 210120
tcctctgttt catccatgtc ctccagtccta gattaagtaa tctttttgtg cacatttata 210180
gcttctgacg ttaatgcctc cattgtttcc taaagtcccg atgatgatgg aactgtgcat 210240
attaaagcag gaatggggca gaatgttgct aggcataatct aaaagcctac ccctggaaaa 210300
gtacttatgt ggcacagaaa gcctctttct ggaaaaccac tgaactgata gttaaattca 210360
aaagtcactc ttaaaatcag ttaagcaca cattaaattc acttgtcttg gatgaagcca 210420
gtgaacatgt taaggcaaaa caagatttat tatcaaatc tggctctctcc aaaaagttac 210480
atgggatcag aatcagatgt tgatgaataa tttgtttttg tacgttttaa tagttacatg 210540
ttcttacttc tagagctcat ttaactgggt gaactagaga accagaatac aacatgattt 210600
gtgtttttct gtggtggaag agaaaaataa aattaaagtg gaagttatta atactatcta 210660
tattcacagg ctgctaatat gtactgcgtt ctttctttt gtgtttttct tcaggtgatt 210720
gaagacagta ctggagtccg tcgggtggtg gtcacacccc agtctctga gtgttatccc 210780
ccaagctacc cctcagccat gtctccaacc catcatctcc ctccctatct gactcaccat 210840
ccacatttta ttcataactc acacacggct tactaccac ctgttaccgg acctggagat 210900
atgccacctc agttttttcc tcagcatcat cttccccaca caatatatgg tgagcaaggt 210960
aagtagattc ttgttggcat caggagccgt tgaaactggt tacagcattt caatagttca 211020
aggcgccct ttgtttcttg tgaaataagc agagtagaaa aggatctagg tggtttgtaa 211080
gactcatgag gaattcctag tttcctttgt cctgcatggt gccttgaaa aattactttg 211140
tgggtttagt tctttttctt tctttcagtt ttcccaaact cagccccaac cccacctta 211200
caagatcaag gagtaaggta gccacctttt attttagaaa agtggcaatg tgacatcggt 211260
cccatgtcct gaaagcatgt ttttatgtga gagtggcctg aggtacaact gtggcacatc 211320
gttgctttgg tatccatatg atctaccagt taaagggaaa ttgaaaggtg ttttggtccc 211380
catttccaat gtttgaagat tgtgaagtct cagcaacctt tgggtttcct gaaaggctct 211440
atgttgtgat gttggcagaa ctaaaaatcc cctggctggt gatgtggcct tcctgaacct 211500
gcttttagtt taagactagc cattagtgc gccacaattt cactggttgt taggcaaata 211560
cttacctgga tatgaaaaga gtctcagaac taccaacatt atatcttttt aaagttttga 211620
ccttggtggt ggtttagtct aaaggctttc tctatcaaaa tggatcctga gaaaccagat 211680
aattgaaggt aaaattagac tttagcctct aggactttac aaagtgattt tcttctgagt 211740
ctgactatga agggaagcat tttactgctt cagacattta ttatgttggt ttagatacat 211800
tgtagaagaa atgcctgtta taccatagaa tgtttgagca agttattact ttaacagtt 211860
atatatatat ataattatat aatttctata taattaatta taatttataa ttatatatat 211920
ttttatatat aatttttccc tgttcatctc acattataac ttattcacag aaaaagcttt 211980
tttgagattt tttgagatgg tatttcaagc gaaatatact gttgtaactt aggatagaa 212040
tttgactgtg tgtgtgtttt gttgtttttt taagtagtca aagaaatttg acataattca 212100
aattaatcag gtgctttcac agtgggggtat aaggggatga tagcaaaaca tgaaatctat 212160
actttgattt tatagcagca tcaataactt cctattaatt tgatcttttt tccatgcgac 212220
ataacaccaa gaaaacatta agtagtgggg atatactatg aaaacatttg gataaaaact 212280

gaaaaaattt agttagctgt aattttttta aatgtattca gtgctttgac acaatatgca 212340
 ttaaataatt gagtgtttct cagagctttc tggctggatc tgagctctga tgacatgaaa 212400
 gtccttgggtg actgacgcac tgcctgctgg tgtatatctg acttgcttta ttttagcagt 212460
 ctgttagtag gatgccacat agttactgtt ttgtaaattgc tgtcctttgc aatttttaggc 212520
 aagacaacgg tataatttaa atcattagag ttaagcacia ttgtagtctc ttcattttgt 212580
 ggtgtatttg ggtctaattc cattaaaata acacagagca ataattgata caaataaaaa 212640
 tgccttcatt gatttcacat taaagcagta aaccaaattc ccttcgcttt atacataagc 212700
 catttttata ttctttaacc ttagttcttt agtgtgcata cctaaaagca atttaaatat 212760
 gaattttcta aactataagt gtttaaaagt tttcaccatg tctgaagaga tgattagtgc 212820
 ctgcggtgaa tatgttaaatt ctcattgtga atgcattcgt gcatttagaa catttactgt 212880
 ccttctggta tattttgaca ttgtttattt ggatacatac tgtctgaata ggattatatt 212940
 tgttttgaca cattctctag tgcaaaactgg ttctctcatg aagatttgat ttttcacaaa 213000
 acaactcgtt aaaaaacaaa tcttccttta gctatgttaa cagtaagaaa cagtggagct 213060
 ttaccgttga gtaattgaga cagcagtttt gttaaattat gcagggtaac catacatttc 213120
 tgttgtgcct gtgacagtcc tagtttaggt ctcttgctt gaagaaattg ttgatattcc 213180
 tcccttttca ctgtcagaag tgttcagatt tggatggtaa tttatattgt cactccatag 213240
 atgaggtgac ccttgtttct tatgaagatg taaggacca atctttatgt tacgcattgt 213300
 catttttact gatacctaaa aataattgtg aactgattta aaaatttaaa tttaacatga 213360
 agttttcccc ttgaggtcat aagattgttt gcaggcttct gttttctttt gagccacttt 213420
 aaaacgtgcg tagtaaagtc acgtggcatt ctacatttgt cttgccttcg attactccaa 213480
 aagagaagtt tgagaccaca gcttattacg tttggacca gatttcagag atagcttttc 213540
 ttaaccctta tacttccctc ttgaacattt ccccgattc tgtgagcttt gattatttta 213600
 aatggaaatg tgtcatctca ttttcttagt taaatttgtt caaatgttgg ctcttttgaa 213660
 tgccacaaat aacttaaaact ttgactgcaa tatactttcc agtagaaata ctattctgtc 213720
 tacagggata agtagacttt taaagtagct tgattctaag tacatgttta atgggggtat 213780
 tttatttgtt ctaacttttt catgtattgc aactactgaa aacataatga aaggcaaaaa 213840
 tcaaagtcag ttataaaattc aactagaata tgaactctag ggataacaac cttgtcttca 213900
 gtattctctg taatatagga aattttctga acgcacagta tagtttttaa tgattgatta 213960
 ttccttgatt gattagaaac aaatgggaat gccttaaatg tatatcatgt atatggcatt 214020
 ttcttttttc ttttttcttt ttgaggcaga gtcttgctct gtcgcccagg ctggagtgca 214080
 gtggtacaat ctcagttcac tgcaatctcc gcgtcccggg ttcaagcgat tctcctgcct 214140
 cagcctcctg agtagctggg attataggtg cccaccacca cgcttggtta atgttttgta 214200
 ttttttagtag agatgggggt tcacattgtt gccaggcta gtttcaaact cccaagctca 214260
 gacagtctgc ccacctcggc ctcccaaagt gcttacaggc atgagccacc acgcccggca 214320
 gtattttctt aagaaatatt tattatactc tattcagtaa ttttttagac ttcttttata 214380
 ctttagactt cttcaggagc cagatcgttt aaccatttaa taatttatta ctgaaaatgt 214440
 aaactgagtt tgggtttatc ataattcatc attttagaaa ttataccact ttatggaatg 214500
 tcaagctaca tcacccgaga agaccagtac agcaagcctc cgcacaaaaa actgaaagac 214560
 cgccagatcg atcgccagaa ccgcctcaac agccctcctt cttctatcta caaaagcagc 214620

tgcacaacag tatacaatgg ctacgggaag ggccacagcg gtggaagtgg cggaggcggc 214680
agcgggtggtg gtcccgaat taagaaaaca gagcgacgag caagaagcag cccaaagtcg 214740
aatgattcag acttgcaagg taatactcaa gatgtttgcc atagagtga tttatcaagac 214800
agagacatct caaatgatgt ttccacgtct ttacatgag aatagtattt catggtgctt 214860
ggttgttctg ctaagaatat ttgagtagac cttctttgat ctatttctta gtaaggaaag 214920
aatattgcat tgtttatttt ttattaatac ttcagggcag aaatactacg tttggtcaca 214980
tatgccatgt agctttctac ttagtaacaa gtatgtgaaa atcttttcat gttagcctac 215040
ttctgttggt tcaactctctg aatagacaga tgtggaagaa atccaaagat aatttttcta 215100
aaagtgtagg ctagtttaaa tctcacaata attatactc ataaaccata tgtaattact 215160
tccttactgt aatgaaatct gtcattgaat cacagaaata tgtttctctt tagttttcgc 215220
atcagttact gtctcatacc accttttgcc tgtgaattaa gtgtttggaa accaagaatg 215280
agatggaaga atgagggtca ccacatatag ctagagaaac atcaactcag aatggcacgt 215340
gtttttttgt agatgaatct cttgggtata gatcagttga tttggaggaa ggtttttgtg 215400
tttaaataaa gttttggggg tagtttagag agaacctatt ttgatgccac ataaggaaaa 215460
acagtactt tttctatagg catagggaag aatgacttaa gtgaggcaaa aaaggttaaca 215520
tttgataaag gtaggtgagt ttatagatag aaatgactgg aaagcaaaga catgaacaac 215580
ttttaaagat aggattcaag tagattccct ttttcattca caatcacatt ctcacagaca 215640
gtccccattt ctacctgact gagatgcaat aaggaatctg attataacac tcattgatta 215700
taacactcat tgaatttatg gattccttac tgcactcat tcaggtagaa acagggactg 215760
cgtctgtgag aatgtgattg tgactgaaaa agatggaatt tgtgtatttt tgagtgtcta 215820
cggaagagct tctgacaagg gagaggaagg ttaggtaaaa tgaagtattg ccatcaacat 215880
ttccccctac gttatttggg tgagtgattg cagcatgaga gagaggaata gtaagataac 215940
agtgaatgt aaacagatca tgtgttcttt tcattttaat tatttattct tttctctatt 216000
ttccacactc tatgcaatta ccatgttatt cttataattt ttaaaacata aataattatc 216060
atacaaagga aattgaagat tcaagaagct tgtacatagc tcttaaggga agatgctggg 216120
tctcatataa taatttttag tcaaatgata ctgtaatttc taagcttgaa attagtttat 216180
tagcagtgtt gcaatttaac catgactata caagaattca taccaaaaaa attaagaata 216240
gattttccta aagagaattt taatccaaag aaaagcgaga gagaatgtat aaattgtcca 216300
gagagcttac gaggtttgaa gtactttgat tacttgactc attctttaat aattttcacc 216360
ttgctttgca ccaaaaactga ttaaggcaa atgacgtaga cacatagaag cagataacat 216420
aaatgtaagc attaagcagc cgaaagatga taagggaagg aaaatactaa taagatgaag 216480
cagggttcca gtagagtggc ttgatatggg ccataatatt ggttttgagc ctcttggtta 216540
tcaaagcaaa aaggcaaatg tgaatcacgt agcatgaaca aagaataaag cacttcttgt 216600
tcgtggggtc catcaagtgg ctcataatgt ttcagttgtg tctgcctcaa aatgtggttg 216660
ttggttccta ggatcccaaa aggttttttc ctgctttctc atccttaca gtgtgtctcc 216720
tgctggaggt tactgcacct gacatctaaa tctgtacccc agaaacagac ttcttaactg 216780
attcttaggt ttacagtgcc acctaatata tctaaaacta tacttaatac cagtatgata 216840
aacctgatag gttcatatgt ggtttgaca agaatagaat atatacttaa ccataacatg 216900
tgacttgtgt gttttttttt tttttttttt ttaaatgttt tacttaggtt aaattgcctt 216960

catggccaga agagataaat ctttttactt tttttttgag atggagtctc gccctgtcat 217020
gtaggctgga gtgcagtggg gcgatctcag ctactgcag cctccgcctc ccaggttcaa 217080
gccattctcc tgcctcagcc tcctaagtaa ctgggattac aggcatgtgc caccacaccc 217140
tgctaatttt tgtatttttg gtacagatgg ggttttgcc tgttgtccag gctggtctca 217200
aactcttgac ctgaggtgat ctgcccacct cggcctcctt ctttttactt tataattcct 217260
taacctttga gttaattttac ttgaataatt taccttttta ccacttacia aaaacaaatc 217320
tttaaaaaaa gacaaacttt aagtttgtgc ctggctcctgt ggtaaaacta agcacatgta 217380
aaagaagcaa acaactcatg ttaatatataa tacatgtatt aaaaagatgg cgatacctta 217440
atttctttct tgaggtctag ttctctcagt taactgtgct tcagaaactt taaaacaata 217500
gagattcgtg gaccccatth tagacctagt aaatcagaat cttcacacca cttttgactt 217560
catgtttttt ttttgttttg ttttttaaat aaaacctcca ttggggataa tgtgtaatca 217620
gccaagatag aaaattatac tatcataata atgaggatgg ttcataagt tgtacacagt 217680
atagaatagg aactttgtgt tttattcatc aatctctccc tcttcttagt actatacctg 217740
acacatagta ggtactcagt aaatagtgtt aagttagtcc tgttttctta attgccttgt 217800
tttcagagc aagccttctt tttgaacaca caaagctatt gtaccatttc cttttcctgg 217860
aaciaattgt tgcattgtc aaggaaactg ctccgtggct agcctcccct ttcatttact 217920
attacctca ggaaaacagg cacgacagac tcccatagta cactctgaga agtatgggat 217980
ctctgagttc ttgcacttcc ttggagcaaa tgggtgtggtg tgagccgaga agagttgggg 218040
ctttggtatt agacatacag tacttggtctt agaattgggc tttgttactt actttttcct 218100
tttagttttt cctgaatttc catgttcaca tttgtaaaat gggcacttaa atttccatta 218160
ttaaatatta aaaataacct tgctcagttc ttaacacttt aatataatgg taacccttat 218220
gacttgaata ttgtctctct catcttcagg actcctgtta ttataggatc atgtctcatc 218280
tgagatagct gcccctcaaa ataggcatct ctctctacta tccatctggc ggcttttccc 218340
cttcccttca tgcctcatc cctcacccc agccccctac atttcttctc ctttaagcca 218400
gaagtggctt tctttgctta aacctatctt acatttttga aagctaaacc ctgcattact 218460
ggcccactat ctctgaaagt tgcttcagg ctctcttct ttttttttg agacggagat 218520
ggagtttcac tcttgttgcc caggtggag tgcaatggcg tgacctcagc tcagtgaac 218580
ctccacctcc caggttcaag caattttcct gcctcagcct cctcagtagc tgatattaca 218640
ggcgcacacc accatgcttg gctaatttct gcatttttag tagagagagg gtttcacat 218700
gttggccagg ctggtcttga actcctgacc tcaggtgatc caccgcctt ggctcccaa 218760
agtgtggga ttacagtcgt gagccattgc gcctggccaa ttttttttg ttcttagtag 218820
aggcgggatt ttgccatgtt ggccagactg gtcttgactc ctggtctcca actcctggcc 218880
tcagcctccc aaaatgctgg gattacaggc atgagccacc gtgcctggcc acttccaggc 218940
tcttttaaga gaggttgcca ctgtgtagaa acataccaa tatcctgggg tctctcttg 219000
tggaattgg accggtctc atacatctt tcgtcacctc gtcttagggc acttccagct 219060
ccaagcgaga aagaactctg gtacacagcc tcttgggact tcttttctca tgggtgtctg 219120
tatctcctca tatgtttttt attttctact ttgctccctc tgaaccttaa gagacctccc 219180
agaagggcc ccttatggtt taagatgtgt gattattaat tttcctctcc agtacatcct 219240
ctgttgtggc tacagttaaa tagatctcaa cattttaatc cttttgtgag aacctctgtg 219300

```

gtgccccca ctatctagag aataaagtct aaactgcatg atatgacaca aactaacttc 219360
ttgtggccct tcagatttcc ccaccagaca tgctcgctgt gttctgcccc gttttgtgaa 219420
tatgcctcat tcccttttct tggcctgtcc ttccagttcc tctgcctagc aaactccaac 219480
tcaggccttc aagagccagc tcagttatca cctcctctat gaaggctgcc tgtctctcca 219540
acatatattg atggcagata agttagggga aaatatattca agagtttttg ccttcctttt 219600
ctcttcctct cccagcattt cattttagaa tagtgcttgg ggatcaagtc cacagatggt 219660
caaggatagg aatggaaaaa tttgttcttg tgtacagagt attatgcaag agctgggcct 219720
tgagcctggt ctgtggccaa aaccagttaa aatagtcaca ttgcctttca ctgcagaagc 219780
taaagaagtt tctgttgctc ttcataggat gagagggaag cttcattttct tccattttat 219840
tcttgataaa aaccgaagca cacagtattt taaggaagtt attgagtggg atccagttag 219900
tcaggatcca gttgtctaac tgaaatcctt ccattttcag ccagttatac cccctcagaa 219960
aggagttagt ttatctgcca gtattgtttt agaaagaatt atatgaattt agagtaaaaa 220020
acaaaagctt tgatgaggat ccaactgttta attttaaaag acctaagtag tccaagaat 220080
atgtgtgtgt gtttgtgtgt gtgtgtgtat gtatgtgtgt gggcagatgg tgaagggaga 220140
ggacatcaag agtgcaaagt cacaatttct aaactttgtg tttttttttt ttttgagaca 220200
gaatctggct ctgtcgccca gactggagta cagtggcgca attttggtc actgcaacct 220260
ccgcctcccg ggtaaaagca attctcctgg gattacaggc gcccagacc atgcctggct 220320
aatttttgta tttttggtgg agacagggtt tcacatggtt ggccaggctg gtctcaaact 220380
cctgacctca ggtgatctac ccgctctggc ctcccaaagt gctggaatta caggtgtgag 220440
ccaccgcgcc cggcctccaa acactttttt ctgtataaaa atgtgctgtg tgcagttgac 220500
attgttgacc ttactttgt tcctggggct taccctaaga gtgaggatgt ctttttcata 220560
tatgactttt acattttaaa aacgtaatgg aattgtagat tttaaataat cgggtgttctg 220620
gactgtgtga catagaacat gtcatttcac taagccgtgg ttttcctttc agtaaaatga 220680
acgggtgagt tagggctctgt gattttcaaa atcttatcag tgagtagatt gcctctgttt 220740
tcagacaatt gtgtgtggat caccaatttt aaatacagta tcccttcacc cctaccacat 220800
cacacacatt catacacgtg tacacatata cacatgcact ctgaaagcag agagcactaa 220860
aactcctgtg gtttgagtgg aggactggga tccttgctac cctccacaag gctttccag 220920
ggatccagcc ctccactggg tcctggctac tcacaggctc aggccagcat tattagtacc 220980
atcaaggagc ttgttagaca tatgccetta tgacctgcc cagacctact gaatacaggc 221040
tgtgtagggt gggcccacca atctgtgttt catcaggcac tccaggtaat aataagccac 221100
agtagcatth gagaaactgt ggccctttga gtgcgaagca atttttaacc aagattttta 221160
atggcagggg tgggaaagca gcgggtggga ggcattcagt tggaacactt ggtttaagtt 221220
gaggcatggt ccttgtaact tctgtatcat gataaatata tactagtggg ggaagagttc 221280
cttttttggt actaacatat aggtagcagt ttatgtgaac tcttctagaa gttatagtgc 221340
catatgggaa aaattgggac aaagtggcaa gaattccaaa tatagaagaa aacgaacata 221400
cagcatactt ttggcatttg aactttggaa ttgttaacaa tccaaagact cagttgcatt 221460
ttagatcaca ttccacccca tagactcaca gtttctggtt atgataacga aagccagtga 221520
tgagggcatt attcttgtgc gtttctcttt cagagttcgc agattgcttt ctgactccag 221580
cagtgttcct tattaccggt tctttgtatt ctaattcttt ctcaggtggg ctccctggca 221640

```

```

ttttttctct tcctattctt atattttgtg atcattgctc agaaaccaga atcagactac 221700
agctctactt cccccaagc agcaagaaag tgtgttcaca atagcagtga ttattcataa 221760
tgagaagtca tagtgcacta aggcttgga tggcattttt tccctctagg ggtctgagat 221820
tgtgaatatt tttgggtcct tggagtctgt ctttttgctg aatggcttg actctgggag 221880
ggcatggcag cgtccacctg tgcagggccg acagtggttt cttttgtctg gaatgacgta 221940
cttaatgtta ataaggctg gaatgttggg agtcaagaca gattttcttt tggactctct 222000
tttggctctg gctccctgta gcagataatg cttgtgcttt tctgttttct gattaaaata 222060
ggatatctag tagggctttt gcacttcaca agtggcagat ttcctctttc tcttgtaagc 222120
tttttctgtc ttgtgagcac atatcctagg catgctcaga cgagggtgtt tggaaggctg 222180
gagtttggca gggctcttct tttccccag agtatctgtt tcccttactg cgtttgaaca 222240
ctgtactgtt tctagataca ttttaaatgt tgctttatct ctcaagtctg taggtgacga 222300
tgcacacctg gtgttttcac ctgtctacag ctgcatataa attctcagta ttgcaaaaat 222360
atcaagaaaa catgagaaaa gttaaaagt agctcaggtc agtggaaatc atccatctga 222420
ctgtcaatta cagtctgaaa agtgaataa gtccaaacaa gcccaaataa cttttatttt 222480
ttaaaaggac agtggggacc cctggatcag aatgcaagag acgtgagaca ttcttttttg 222540
caggaaactg gacaattaac atcgccactt ccatttcaa thtaggtctg cagatccgtc 222600
cgctcagttt agaggctctt gagtgactct aattaggagc caagcagact tgaatgcctt 222660
gcaactgtct atgtgtggga tggagatagt tttgggtca gaaggctgtt tcataaggag 222720
catgctgctc attaacatgt gctttctgac ttgggcgtta tcctgcaggg ccaaggctgg 222780
agaaatcaaa ctatgaataa ttatttttct ctaagacctt tgtatgatga ttttttcccc 222840
cttactggga tgttgatttt actagtgcag aggcaaattt acagctcaac aaagaggaca 222900
ccatggtggc ccaaattgtt aattagtaga gtatataatt gtctttatta agttacatca 222960
cttaccctat cttttgcctt tcgccctttc cccctcgat tttgtcgca atctggaatg 223020
ttttaaagat gttaatgcgt gattctttca acaggcaaaa tgagatattt ttgtcatgtc 223080
aggttaagaa gtcttaacct attaaatcat actgaagct tcacattttt cacttgcata 223140
taaaaagaca aacagcatgc aaaaataatt cgctgagttt tcttttgaaa tgaatgttca 223200
ccagaagttt gaggtcagaa ttttgattag tttttaccat atgtagtact gaactctgta 223260
aaccctgtgt attttctctg cttttttgct ttcttggaag ctgatcatgg cagcatttag 223320
atgacatcag aaccatgtt ggtaaaataa atgtcatccc aaagaacctt ttaaacagca 223380
ggtataagt atgatatggt ttgtttctgg tatatttgta accttcagtt ttattgaatt 223440
gaaacttcta tatgttattt ctctcattta gctaagttga attctgaatt taactgggtt 223500
agaggctatc atcacaaaag tgccatacgc agaagtaaaa tatgtactag ttgggacctt 223560
gcagatcttg gtttagtctc agttcagcca cctgggaact atgtgacctt gggcatgata 223620
gttaatcttt caaggcttca ttttcttctt gtgtgtagaa aataggggta attaatggca 223680
tctctttcag aggactatca tcagctctta gtacaatttc agacactaag tgctttaaaa 223740
atgtagtgg attggtaaag aaagaccatg agattttttc cttgtgagaa ctgctttctg 223800
tgggtcactt tagcagaacc tcagcctgtg agcatgccc tcagaatgct gttgggcaag 223860
gcacacctga gcctgggtca gtgttaagta atagtgaatg ccaaggactt gagatagggg 223920
agagttcaga ggggcatcca ctccctaaaa aaggttctcg gactattgcc aaccacaaa 223980

```

caacctgctg aattctgggc aagaataaaa tgcagtcctc tctccgtgct ttttcctgt 224040
cacctctctg gggtgaattc tctgtgtgag cccacggaat ggggtctgac agggccgctt 224100
gattctgttt gaaccctctc agcaaattaa ccactctaag ttactttgct aaaaggagga 224160
gattgcaggg gacattagct ggaggcgatg ggcaaacaac aactgctctg tattttat 224220
tctccccacc acattccttg ctttagggca attagttaag ctagatggat aagctaactg 224280
ggtaacccac taaatttcca agtctttcac aacttttctt tacaccttgc aacttgtaca 224340
ccatctcttc cgcattctgt gggctgcata gacctgccct gctacattgc ggaaggggtc 224400
ggcactaggt gtaggtagat catgggggtg gcgagacatc ttggaggctg actaccaggt 224460
gtcgacgcag aaaccgtttc tgtaataacc ttatctgaaa gagtctcagc atttgtgatg 224520
gaattttggc aaatttcttg ctgctatgtc aacatcgatt ttgtcattgc ttctccttct 224580
gtggaatgga gccctaggat ctttacataa actgcagtgt gaagaggcag ggttttgaac 224640
ttctggtttt gtatcatcat tattgtaatg tgataattat agtctatatt gcaaatacgt 224700
tcattatcat tcatgcttcc tgccatggtc agctttggct tttattttaa atttaatttc 224760
ctcaaccaga cacacagtgt agcagactct attaccctat ttcagttttt ggtgctgtaa 224820
tgagactttg aaattctagg aactgagtag ataacacaag tgtgatgtgg gaaaggtccc 224880
tgggaaacaa cagtgatact attaggttgg tgcacaaata attgtggtgt ttgccatcac 224940
tattgcaccc acataacagc tcagtgcatt caatttaca agtaatgagt gaaatgctcc 225000
ctatagttag ctataagatt tcctcatttt tctctggtgc tgaatttgct tttcaaaaaa 225060
ctcttccctt tgctgttccc ttccccattc cagattgtaa ctgcttcttt ccagctgcat 225120
cagaagaagg ggactttccg ttaggtgtt atgctcagaa aagggcagaa aagaccaggt 225180
catggtgggg atgacttgct ccaagcacia aagagaattg tgatggttca ggaagactgg 225240
aaaacaatga ggcaggaaag aaatgagaag gcttcagggg aatggcacat tgaaataaaa 225300
ggaaatggta agagcaggaa aacaagtaga atgaaaggag catacacagt gggcagggat 225360
gattggatag actgtggaat aaaggtaatt tggggaaaaa ataggcagaa aataaaagag 225420
gtttcatggt tccatggtt catattccat tcctcccact aggttaacat ttcccagagg 225480
ggttgggtgg agagggggaa atcctttttg ccctgttgtg gtccatgtgc ctttttgctg 225540
gcagctccac ttggaacaaa tctccctgtg aatacatctc ctactttttt cctatttgga 225600
gtttcctgat gcttttgtct tcctcttggt ctggattaga gcatccactg ccagcatgca 225660
ttaacgtgat aaacaaatta aaagtgaagt ctttaagtaga actttggaag gaggaccagt 225720
acactatatt gaggtatttg attttttgaa tatgacttga agttgtttaa gtgatgtttt 225780
agagttttga tgtgcttaaa aactggaaat tgagaatttt ttttaatttt ttgttttaag 225840
ttaaaaaatta agcacaagag accaggtatg ggaggatcac tttgtgagaa tcactttggg 225900
aagccaaggc aagaggattg cttgagccca ggagttcaag accagcctgg acaaaataac 225960
aagaccctat ctcttcaaat aaataaataa ataaataaat aaataaataa gccgatgtg 226020
gtgggcattc aggaagctga gatgggcgca ttgtttgaag ccaggaggtc aaaactacag 226080
tgagtgttga tcgtgctact gcccttttag ctagatgaca gagttagacc ctgactttta 226140
aaaaaaaaaa aacacaagaa agtggggggag gggggcacca cttttccttt attcctgggt 226200
tagtatgcct ttgtcaaaag cagcttgctt taaatgaaga tgtcatgctt atttcaagtc 226260
ctcttacaaa ccgaattcac tctcatatcc cttgatatg taatgaaaag caatatatat 226320

atagcatttc tgtgaaataa tcaagccttg ctttctagac ttattagaat tacctcatga 226380
aagcaacatg aggaagtgag tgggaagaac taggtctaca acaattaaaa tagtttttgt 226440
tttttttttc agaaatgcat ttattactgc ttctcttaat tcacttggtg aacttccatt 226500
gacctttttt tccttttatt tgaaaagaca caaattatta tatggagcag taagatcttt 226560
caaaccagga ggcatggaga aactgccata ttttaggttc actaagttcc tcaaaactat 226620
ttaagtgtct tgccaagcac atttaaaaaa aattcgtatt tagtctttca ggaagattta 226680
tcttttggtg gaatgttgct ccaaggaact ctataagata tcagcatctc ttgaaagctc 226740
tgttaaaaaat gatgtgttac ttaagtgaga aatggttatg ggtgctttaa ttattcagcg 226800
atcaaggttt tttttttttt tctttaaaca cactgacagc attcatatta ttactactt 226860
acactgtcat ccacgtgaag atggctccaa ttttaattgca gacagttttc aatttgaaaa 226920
ctgtatcttc atttcattga agaatttcgt gtctgggaag tactcttccc tatagagttt 226980
aatctctggg tgtagtggtc tcagcatcat ctacaacatt acacatgagg gcaaaactgt 227040
ttagagtaag ttaggtaagt tgctattgca ttagcatttc tcagaagaaa gatgatcttt 227100
taggtagtaa acatacatgc atcgtagaat cagtaggatt tcctgatttg cctgactctg 227160
cggtgcttcc atgcctgttt tctgcgttgt ttctaaactt ctttttcttt ttttgttggg 227220
gggagacagg gtcttgctct gttgcccagg ctggagtga gtggcaccat cacagctcac 227280
tgcagcctca acctccttgg ctcaaacaat cctcttgtct cagacttctg agtagctgga 227340
actacagctg tgtgccaccc cacctggcta attattttta tttattttat tttttgtaga 227400
gacagggtct cactttgttg cccagggttg tctcgaactc cttaggctca agtgattctc 227460
ccgcttcagc ctaccaaagg gctgagatta caggcgtgag ccaccgcgcc cagccctgca 227520
tcatttcttt taaataatgt caggacagc aggttctatg gccctgctac ccatattgga 227580
atgagagata cagtaatcag ctaaatctta gcctttatag ttaagatttc agaacttggg 227640
tttctgaact gaataatctg tgggatgttt gtaccacaa attaggattc tcattcttct 227700
ctttttcttc tcttttatat ttttatttct tgcagtttta gattctatga attttctacc 227760
tctctctcct gttctgtata tctggcttcc aagacttgcc atatttatcg tctaataac 227820
tgtaaattgga cttttaaaat tcaacacttt ttattcattc atttactgct gaggtacttc 227880
ttatttttagg aacggggtaa ggaaatagaa aatgataaag ataaatgaga aggatgtttt 227940
taatactaga ttattgtggt agctgtcaac ctatttactt ttgaagaaga aagtttcaat 228000
aattgctctt attttaagac tatgttacia gtcattgag tgcattcaag gaaaaggaag 228060
cacttcagat aagctaactg cacttcttta ataagggtgt gtggtccagt tgctagtttg 228120
tccttgatcat ttccatttcc ttcttttga ccatttttat ctttaatgat cttagtagga 228180
ggtaaacaac ctcgataagg ggataaggga gaatgtatcc aagtgtgct tgtcaatagc 228240
tctgataaag atttggtgtg tctggaaaac ctgaaactta aatgattct cagaaattat 228300
ctctagggtt catttgtaat attgagtaga ttactatttc tgtagatggg aaactactat 228360
ttctatagat caaaaaatagt gaatatttga aattttacat gcttcaactt aatattccac 228420
acatcaatat gaaggataat taataggtat ctatacaaag tatatctcta ctgtgtttct 228480
caactgttgg tatgctagaa tttgttctgt ttttactttc agtgtcaaca agagtaaaag 228540
gttttagggag agaaaacagt gaacacaaa gaactcaggt aatttgtcta ctgctaggat 228600
gttttttgca aatagatatt aaaaatgata ttttggggtg agcagtgaat caataatctg 228660

```

tttaaggcag gaaatactag attttataaa gatataaagg aataaaataa gataagatca 228720
cagtgcccaa gatgttttct tgaaatgggtg gctagagtcc tattgattaa tgttgggtgac 228780
tgagacatca acattgaaaa taaaccatcc ccagacaatt gataattata ggtgacaatt 228840
atgtttgttat actttattta ggcagtagtt ttgttcctgg aaaattactt ttattcaaga 228900
ggaaaattag aagcgtttga gaactgaatg ttttgtggaa actcttgtgt ataatttttc 228960
agttttattc aatttcataa atcttcaggg aatattttca ggcctagatt tatggacact 229020
gtatatagta cctgctacca aaagaacatt ctaccatcag gcttattaga aagcatattg 229080
tctgtttttc tgggtgccttg ttttgagcag atgttccttc agcatttctg aactatttta 229140
atgcacaaga tgggaagaac agtaagttaa aagacggaga taggaattaa ttttttgact 229200
aggtaactgc atttgagtgg ggataaatgt cagtattctc aatctttttt tttttttttt 229260
tgagacagag tattgctctg tcgccccggc tggagtgcag tggctggatc tcagctcact 229320
gcaagcaagc tccgcctcct gagtttatgc cattctctg cctcagcctc cccagtagct 229380
gggactacag gcgcccccca cctcgccccg ctagtttttt gtatttttta gtagagacgg 229440
ggtttcaccg ggtagccag gatggtctcg atctctgac cttgtgatcc gcccatctcc 229500
gcctcccaaa gtgctgggat tacaggett agccaccgcg cccggccttc tcaatctttt 229560
ttatccctct gctcaatttg aggtaatacc atgtggtcac ttaatctgtc atcagaccct 229620
aaaaattcag taacaagtct cagtctgtg ttagcaggag aatggattaa aaataagttt 229680
gtaataaact ctagcacagt cctgtcactt gagctcagtt cctttgattt ggcccaattt 229740
tctgcactgt ttttcttttc atattgtaat gactactgtc cacagagaag gttaacacaa 229800
tggaggcaca cttctgatgg gccctgtgtt ctttctctgt gattaacaat cagcacacac 229860
aaagctgggtg cttctttttt ttcccctata gagatggggt ctcaccatgt tgcctaggct 229920
ggcctctaac tcctgggttc acggcactct gccacctcag ttttccgagt aattgggact 229980
acaggcatac accaccatgc ctggcaaagc cagtgattta aaacaacaga aattttattct 230040
gtcacaattc tggagagaat gtagagctca gaagtccaaa atcattgtta cctgggtgaa 230100
atcaaggat tggtaggccc gagctccctc cggaggctct agggaaaaaa tctgttcctt 230160
gcctcttcca gcctcaggtg gatgctggta ctcttttgct tgtagccaca tcacccagc 230220
ttcaagatca gcatcttcaa atctctctgc tttttcttc acctcttggt tgtgttaagt 230280
cttctcttac ctctgcctta taagaataca tgtgatctca tttagggcc atctgggtaa 230340
ctcaggataa tcggccatct caaaatcctt aacctaatca tatctccaaa gacttttgca 230400
tgcaaggtaa cattcacaac caccacaggc tccttcagc atccctgtct agaaacctgg 230460
ctgagccagc ccatttgcct gcatcctagt taaggctcga ttgaaacacc ctcaacattt 230520
actatatgct tttcagttag ctgcagttaa tttcatccaa atgtacaata gcagcagcaa 230580
gtatctgtct ctactaacac aggccaagaa tcatttagca gagctaccac ctgtcttttag 230640
agaagcagtt tacgtaggga aatctacaca cacgcctttt ttttgagcag agtctgactc 230700
tgtcaccag actagagtgc agtgatatga tcttggctca ctgcagcctc catctccctg 230760
gctcaagcaa tcctcccacc tcagcctccc gagtagctgg gactatgggc gtgtgccacc 230820
ctgcctggct aatttttgta ttattttag agagagagtt tcaccatgtt gccaggtg 230880
gtcttgaact cctgagctca aaggatcctc ctgcctcagc ttcccaaagt gctggaatta 230940
ccggtgagaa ccaccgtgcc tagcctatgc acagtaaatt aagctagttt aagcagttca 231000

```

taaagctgaa tgctgtaaca actgggctgt aaatagaagt gagttgtgct ctggatgtgt 231060
gtgtaaaatg taaaatgggtg gctgtgtatt ttcagggcat atttaatagt taaatatcag 231120
aatctgtata attcttttta aatgatgacc ggagctcatg gcatttccca agaagaagtg 231180
aaatgaacct atctgatttt gaatatatat tttctttaaa aagtaaataa gatcgttttc 231240
acggagcatg agataagatt tacaaagggt taaaagtaat ctttaatgaa tcttatgtcc 231300
tgtaaagtgt aaataaacct caagaaaatt ccataaagct ggtacttggt ggatattaca 231360
ctaaatagtt aatgttataa tagattgcag gtgtcttttc tctgatgact gtcaggtagg 231420
tgagagtctaa taattgattt aattttgaag aagatttctg tgtaccctga ggtgtcgtat 231480
gctaaatggg cgataaattc taaagccctg ttatctgctt tgttgtgttt ttaatagtta 231540
ttgcctgttg taataaacct gtatcttaga tttctttttt caccctcag tgggtgtttt 231600
gcctaaattg aaaagacaga agattttaac tacatatgaa gtactatttt aagtcattga 231660
agatttttcc ctccctccaga attttttaac cttgtcatac ttggtgggaa ataatgtata 231720
catcaaagtc aagcatactt aattgtatag ttgaaacatc agtgcacatc taattgaatg 231780
aacaaattag ttaaaactct gtatttgctg tgggtttcaa aaattacctg ggcagtaatt 231840
agagttacaa agagttgtaa aacaaaagtt catgagaata atgaagttga actacaaagc 231900
cctgattgta taaatagggc aagaagaaag aacaccaaga cgcggggaaa aaagtgtttt 231960
ggccagacgc gagaacttag ctggatcatg tggtatcagc caagataata tgtgatagag 232020
aatggcagat acaaatacca tggcactctg tacatgggaa tagagaaatc agagataaaa 232080
aatacaggtc atgtagatca cagctctccc tgtagccagg ctcaagttaa ggtagtttag 232140
ttatataatc aacttttatg gtattgctag gaccttagta aaggaggggc aaagctgagg 232200
ggagatcaca ttatattacc tcgctggaat agtttctcca atctttccat gcagttaaaa 232260
aattagatct gtctatgtca aaccatttag ttctacccat gctcatgagc ctttggtttt 232320
agctacttat gtgttttttc cataaagata tcagtcactt gtggcatata ccatgccctg 232380
ccagttcctt ttggaatcac tttaaatgag aaaaataaag gactttggga aaatctattt 232440
caatgtgtct gttaaatgtt tttactattt gagaatagtt ctggactctg aaatacattt 232500
tccatttaat agtatttggc tttttttttt ttttttctga gccataacat tcgtggaaat 232560
atgttgaaat cttaagtga gagaatatga cttactgctt ttggtatgac ttgctgtcta 232620
gaatgttaca gtcttcacta cagtatgttc tagtcagcag cattagaaac aaggataact 232680
tcagactaca aagaaaatag catattgtga ttcataactt tcttctgtt ttaaaatcct 232740
catttttttt ctttcccttc attttcctt tcttttctt tcctaggctc tttctctgtc 232800
accaggctg agatgcagtc gcatgatcat agcccactgc agcctcaaac actgcactc 232860
aagcgatcct cctacctcag cctcctgaat agctaggacc acaggcatgt gccaccatgg 232920
ctggctaatt aatttttttt ttttttgtaa agaaggtctt gctatgttgc ccaggctggt 232980
tttgacctcc tggcctcaag tgatcctctt gccttggcct gccaatgtac tgggattaca 233040
cacatgagct accgccccca gcctattctg aattcttcag attgtagagc caactatact 233100
acaaatctgt gctttttttt tttttttttt ttttgagaca gggctcttgct ctgttgccca 233160
ggctggagtg cagtggcgtg atctcggtc actgcagcct ccaactcggg ttcaagcaat 233220
tctcctgcct cagcctccc agtagctggg actacagtg cgtgccacca tgcccagcta 233280
attttttttt ttgtatttt tagtagagac aaggtttcac agtgtttagcc aggatggtct 233340

caatctcctg acctcgtgat cgcctgcct tggcctccca aagtgcctggg attataggca 233400
tgagccacca catggcctaa atctgtgctt tcttatagga catttcatca aatacatatt 233460
ctttgtcact tgagtggtgaa ctcttcctgg atattaatac tgtttacaaa aagttaggtc 233520
tagaaaatga cattgattat tgtgagacaa gtaacacatt tctgtatatc caaaatatat 233580
ttcattaaat ttgactcttt tcctaaatct ccaatgttgt tgtagtgtc gttttgtaat 233640
attgtgcttg tgtgtgcaca tgtgcactta catagagggt aaatgtgtaa aataagagtg 233700
ttattctctt tgctggtctc actgcttttag ctgttggtcc cttacaattc gttctctgca 233760
cagcagctgg gtgaagtttt tgttaaaacc ccatgtttt ctttcaaac ttagcataca 233820
gtgcaaactc taccgtggct gctgcctgat gctgcaacgc accttcttcc agccctgctc 233880
cagttctctg tgcccttgcc acacagctta ctttctccag ttctctaaca tgtggggtct 233940
gtcctgccct agtgcccttg acctctctgt tctctctctt ggaaagttct ttatacttt 234000
ttatagtaga atccttccca tccttctggt catagcccaa atgcttcagg atcagagaga 234060
ccttcttaga ctacttcac acatcacct tctttacata ctcttcatga caccaccac 234120
gagctgacct tattgtatct gttgtatata atcgtctata ttctctgca agagttcacc 234180
cttgactgta ttggaaacag attggagttg gcagaagata acatgcagag ctactcaag 234240
gggacttcca gacatcttt atagataata tgaattgcta aatttgcttt tcatttaaaa 234300
catttcgttt tataagactt ggggttaaat acagaattcc attgcagttg gaaagagtta 234360
ccaaatagtt tattatgcat gcttgaatgc cagtattgca cagcatgtag tgcagtcagt 234420
atgaaacact ttttttgagg aactgaaatg ccgggtaaga attctatgct aagcctatct 234480
cagccccaca aatgaaggcc tttcctataa atgcagtctt gtatttcctt ccggccagat 234540
aaatgcaata aactgtcatc attgctctct ccatttttgt ttagtaagaa tgagcctctt 234600
taggtgtttg cagagttatt ttggcagct agtattatct ccactatcat tagcttttac 234660
ccttaggtag aacctggact ttgtgtttt acctatccaa ttttcattac atttcatgta 234720
attcatagaa attaaagttt cactcagata ctcttgactg catagcaaca aacctatctt 234780
ggagtattaa aacaaggttt taatatagaa actgtttcag cttttgttt taaactattg 234840
atttcctaca tagtttgagg atttttttta gataccagct ctcttcagta gttctgattc 234900
tcttaggact tttatagaaa catctgtaaa aaatggtata ataactttta tattattcag 234960
cacctttttt tttttattcg gaatgggttg tgtgctctta ttctgatgaa aaagaagatg 235020
aaaacattct tttctaattg ttgggaaatg ttgtggaacc tgactttttg atcactttct 235080
gccagtgtc gggcctgttt acctactcgt tccacttggt ctctgccagc tggggctgcc 235140
ttaactgggt tccatgctcc tatgagggtt ttcttaggta aacgtcaagt ctgcgtcaga 235200
aataaacgtg gagagccatc tctttccaaa tgttcagtgc aagacagagc aacaggttct 235260
gcttcgagaa ttattactgg agacaccatc cacgcatgca agcattctgt accaggtagt 235320
acactgacaa tttggaacaa agatagacac tgccatcttg gttcagaagg ctcctaata 235380
atggcattct agaagagaaa acctggatta tgtagcctaa gatatggtct tgttctggta 235440
gaacacgtgt gaataggaaa cgcacgttag cccttgctga tactgtcact agggctctaga 235500
tccccattgg gcttaagcag agatgggtaa ttttgcttt ttcttaaaat atcccagcag 235560
tctgaactaa aaatacggag atattataaa cctgtatttg cctgaaaaca agattgtcac 235620
caatctcaaa agtcagaaaag aaatcattct ttctcact ctgtataata gctgtaagag 235680

ggaggggaat ggaaaggtat tttggagttt aaaagtagta aaacacagaa ccatgaatcc 235740
tgcttgcaac tttaataaaa tttgggtatt ttcttagtag aacacctttt ctattcctga 235800
gttaggctac aaggactgcc cattatgaaa ccaagctaga aactacctta aggttaaata 235860
ccttaaggag aagtaactaa cctttgcagc agtggggaac agtcacagct ctgagacccc 235920
atctctggtc agtgaccaga gatatctgag agctgatggg ctgcagtggg gagaaggact 235980
ggctgctaca ggaaataaac cttatttcag acccaactgg aaatgatctc ttatttaata 236040
tgttgggttt tttttacatg tttttaggga atttttagat tcacatttca ggagactatt 236100
ctgtattttga gcctttgggt tttgctgaag agcatagaac cctaaaaacc taatgtgatc 236160
ttagaacttc cttaatttct ttctttccac tcttagtctc ttttctcatt tcctttcact 236220
gctctgaaaa ttaacacctg ctagggaaat caactttagg ctgctttcat tggtagccag 236280
tgtttaaaaa tcaatcctgg caactaatgt aaaatgaaat ttggaagacg tcttgattct 236340
catggacttg tgcaagctga agttattaaa gaggattagg aaccacagct ggtgagcaga 236400
tggaatgctt ataatttcac aatgttaggt agctgtaaac tcaaactctc acaaaacttc 236460
tttgcttttt ctctagttaa tttcacttta ttttctgga ctgtaactct gggcaagtac 236520
gatcgtttaa ttgttgaga tgatgagcct taataggttc ctcatctaga tggcatcatt 236580
taaattctgg tcgtacaatt tcatactcag aatttcattt tagaaaccaa ctatttaata 236640
atggacttat taacggcaca ataagtagga aatggtttta cttttgttc aaaatgtaga 236700
aatgcatttt aaatttgagc aatgaagact ggttcacagt aattgcaact agacaatata 236760
actacttggt tcttaaagaa atgcttgact ccatcagttc cttcagcttt ttctgtgttc 236820
atttctacta gaaattcctg tgtcatagaa aaaagtctcc taaagccacc ttcttcaatg 236880
gctctgctat ctaatcacag gctgcgtgct cgctatgtat tccctgcacc catgactact 236940
tctctgtttg ttctgcctta tcataatata ggggccttat acatgcacag agcaactggt 237000
tgccctctta gaaacataag cctagacat attttctggg ctggtagggt agtgttttct 237060
ccacaaagga aagtgtttgt gagactttca tccagtact gctaggaagg tcaaattagg 237120
aactttattc tacaaataca aagacattaa cttatacttt acgttagtggt ttgttgcttt 237180
atttaagaat ggaattagt tccactctac agtttagcac ctctttatcc tcaactgaaag 237240
tctttagaga aatggctgct aaggtggagt ttcttcaaat acagaaaaac agctggagcc 237300
gtaaataagt tgagcagcct ggatgcactc tgtagtagct ggttgggaag aaaacaacac 237360
acggatatatt caggtgggtc cacacaacaa acagctgtac tttatggtct gagatagtct 237420
ctgttctttt ggaactgggt tgtgctgctt ttgcagtcag ctgcaaaaaa atactatagt 237480
atgtcttttg gaagcaatta ctgcatgatt ctcaagtgtc cagcttcaaa acatcctgag 237540
tgttccattt ctatactgc gggagaagag gataaattac caatgctttg gcatgaagta 237600
atctggagaa ttattatggg attggttttt cttgaccagc ttttgaaatg actttcggtta 237660
gcttctcttt ggatttccaa actgaccttc tgtaattgga tgtggcctct tacagaagca 237720
gtagtataaa catgtttaaa cttcgaatgt aattattttg tcctgaacca agtagtctag 237780
cagtctcttc cagcggatag atttgtttat ctttaagtaa gttaatctcc ctgccttacc 237840
cttgttacct ttgggcacag gagatggcag gagaagaggt tttgatggc cccaagaag 237900
aaatagactt ggaccaaaaa tcagaagacc tgaagatttg atactaggtt ctttttagatt 237960
ttcctgtgcg atcttgacca gattcatgaa atctctgatt tgctgaatct atagtaaag 238020

tgtataataa tatctaatat gtatttgcac atgttttgga tatgtattgt tatgcgatga 238080
ctgacagaac aaagtagcac agactaggta gcttacacaa cacaatttta tcttctcaca 238140
gctctagatg ctagaagtca gactgcagtg ttcacagggt tggtccttca gggccatgag 238200
ggaaggatct attctaggcc tctctctatg acttgtagct ggccattgtc tccctctgtc 238260
ttcacatcct ctccctgtg tgtgtgtctg tgtccgaatt tcctcctctt ctaaggacac 238320
ctgtcatgtt aaattagagc ccaccctaata gagctcttat taacttaatt acgtctttaa 238380
aggccctatc tccaaatata gtcaaattat gaggcactag ggggccaatc cagatttttt 238440
tggtcattca ttttttttcc ttttgtgtg tcttatctat tatattttcc tcttgtgcgt 238500
ttttattttct caccagttt agtccatgac cttaatggcc gcttttgctc acaactgccc 238560
ctcgggctca ataagctcac tgttgtccag ggtttataca cctcagctgt taggagatgg 238620
agatcagatg aatatggttt atcatctgta gagtgaaatg tggctactaa gtggtaccat 238680
tacagagcca atttggggtg taaatctagt atttcggctc ttggactttt taaactgaat 238740
ctttaaatag aacactagtt tcattcgggg ggggggaata tacatgcaa acacattaag 238800
gcctatgatg aatgtcatgt tttgaacaac aaggacagct catttgaca acggaatcc 238860
atctgcaggg cttaagagaa tcctttatct tatacagaaa ctgaatatgt tccaaatact 238920
ataaatgtta ttaaaggctt agaatgagat agcaatagcg catagctttg gcctagagta 238980
gggtgggctg aaaacaattc gacttctttt acattgacct tggatttgtg gatgtctgtt 239040
ctatcataat atgttttaga gaataaaatg gaaaaataat attaagtatt ctaattttct 239100
aattttctaat ttaagctctc ttgtaatacc agagagcttc tattcctcag aatggtctca 239160
attctggaga acagcctctt gcaagtagca ttttccgtat agacatttct tgctgtctgg 239220
cccaatctta acttttcatt ttagttcatt tctcagttca atgcatttag aagacagtgc 239280
atttttcttt tctggactag ggcagatggg gctgtcactt ttgattatct ggtttttttt 239340
tttttaaagg gaaatgttga ttaggaagag caagaattga aataccacca gattaaattg 239400
agagcagaaa ttatacaatc caaaaagagg caaatctgtt ctatgttttt ctgcttagtt 239460
tactatagtt tatgtttgac tttctagatt tcaagtttga tatattttta gagatcattt 239520
taagatagct tttgggttat gagtttgctt tgtttctgct ttctagaaga tacggaagat 239580
agaaatgttt agatggtttt ctttttctag tcacatttaa gtaagaagat cctcgggtta 239640
gagtagcttt tagcaaatcc aaaatgtttg gataatttct gctttatgcc actgaaatct 239700
ctcacttgca gtctagtggc actttgtatt ttcttactgt ttggcgatct aatcttaaat 239760
tagaatactt aacaggtgtt ccaaaacaga agtcacaagg aagtggacaa agggggccag 239820
aagacagctt gaagagcctc ctgctggcta catttagggc aaatttagtg tccaaaaaat 239880
aatgatgggt gtgaagtgtg gcagatttta acacatttag ttaaaaaaaa aagaatctgg 239940
gttcaagata ctttaaaaagt gggagagaga actaataaac atagaaggaa tgacagaatt 240000
agaaaaatcg ccatctggaa actaccaata taatgataca tgctagagat catcggtgtt 240060
tactgtaacc atcagctgaa aggggagaa gtgttttgac aatggagaca ggttttacac 240120
aataccttaa gcaagtgacc aaactgagca tcacctataa gttcagacag aactgtgcat 240180
gttctcatgt cataggatgg gaagtatacc tgtaaacagt tctttcccaa aattcttagc 240240
ctgtatctaa ttatgaggaa atagcatcac actacagata gtgatataa ttatataaga 240300
aaactggcct gacaactcca aaaatgtcga ctttatgaag acaaagtata agggattact 240360

gttccagatt aagaaagatt agtaaaaacc tgacaactaa tgcattgcttg gtcctcgatt 240420
cgatcctgaa ttaggagaaa aaaaattaaa gactttgttg gaacagttga gaaaatttaa 240480
acatggattt taatttcaaa tttattcgat taatgttaaa tctgattgta gtaatgtgtt 240540
tgtgtttatg taggagaagc tccctgttct caggaaagaa ttgctgaagt tttgagggtg 240600
aagtgtcttg agatcaataa ctttctttca aatggttgtg aaaaaacgtg tgttgtgtata 240660
tatatataag tagagatcaa atgtgagcat gcaagtatag caaatgtta ataagttgac 240720
caatctatgt gtttttctta gctcaggctg ctataactat gccataaatt ggggtggctta 240780
agcaacaaac atttatctct tacagttctg aaggctggga agtccaaatc aggggtgccag 240840
catatttggg gtctgggtgag gtctgtcttg ctgttttata tagatggcac gtttgtgctg 240900
tgtccttggt tggctgagag aagaaagcga gctctctcag tacccttata aggacatcag 240960
tcccatttat gagggttcta tctcatgac ctcatctcat tctaattacc ttctagtgcc 241020
atcactttag cacatagggt ttttaagatac acgaattttg ggagggcaca agcatttagt 241080
ctctaacagt gttcatagta ctgctccagc ttttctatag attaaaaatg ttttaaaaat 241140
gtattttttg cggggcgagg tggtcaagc ctgtaatccc agcacttttg gaggccgaga 241200
cgggcggatc acaaggtcag gagatcgaga gacgatcccg gctaacacgg tgaacccccg 241260
tctctactaa aatatacaaa aaactagcca ggcgaggtgg cggtcgcctg tagttccagc 241320
tactcgggag gctgagacag gagaatggcg tgaacccggg aggcggagct tgcagtgagc 241380
tgagatccgg ccagtgcact ccagcctggg cgacagagca agactccgtc tcaaaaaaaaa 241440
aaaaaaaaat atttttataa atcgagcaat ttcacataaa actttgcatt tctagattcc 241500
ctagaaaaat gggaatgtct gcctcagacc cacgataccc caagaataac tgattggctg 241560
catggcagct gccccctcag atagggtgag gtttttccat tttccatagt cttaccctt 241620
cccttttggt ttatataccc accttctcca ctattgata ctacctgcct aatggcgata 241680
ggcattttag tatgtacca cacatgtaac tcttgctgat tccttggggg ggtggtaggt 241740
tgtgtcatgg atggtaatga cttttttgta tgctgaaact cttgagccct ccgattttg 241800
tacccttatc agctgatgag cttcacttgg ctcttggcc acaggctgag tatctagcct 241860
tattcccaaa taattcagtc atctgagaca taattaagga agtgtagatg taaacactgt 241920
tcaaaacttg ctggatagga ggtatacata ctaaaattat ctttcagatg caacatatta 241980
gaaattgtac tctggattcc acctgtgagt tggcacagtc ttgcaaaaag tattgaataa 242040
gttgccctgaa aaaaatttaa tatggcatgc caagtcttaa tgaaaaaaca ttttgtggaa 242100
acgtttgtag actcccatgc aaaaagtagt gtatgaactt taattacctt tgtaagtgtg 242160
ttctatcctg tatttaagcg actactttcc tgttacatac ccaggagggg taccagctct 242220
tgctggataa tcatggtctt gagccttcac ccagaataca agagctgtat ctggcagagg 242280
ttagggctca gctagcagtg aacagttcaa acatacaggg aagaagagga aaggactggt 242340
tctagagtta atctggccaa gcaaacatat ctacctcata cttcatctat ttttgtgggt 242400
ttgcatccct gtataatttg atgttctgaa aaactactagc agcttttggc cgggtgtggt 242460
ggctcacgcc tgtaatccca gcactttggg aggcagagat ggggtggatca cttgaggtca 242520
ggagtttgag actggactgg ccaacatggt caaacccgt ctctactaag atacaaaaat 242580
tagccaggca tagtggcaca cacctgtaat ccagctact cagtgggctg aggcagaaga 242640
atcgcttgaa cccgggagac ggaggttgca gaaaaccgag atcgtgccac tgcactctgg 242700

cctgggcaac agagtgagac tctgtctcaa aaacaaaaca aaacaaaaca aacactagca 242760
gcttttgtcc agttccatgc atatacatga tttttacatt gtgaaatgaa cacaaagatt 242820
tttcttaggg aatctgacag aaatgaacac agaatcttac tagtatttca gttcattaaa 242880
gacctagacc tggcactctg tgttgcccct cttattaccc aaggtgttac atagcatttg 242940
cctgaaggag cccatttccc tgtgagtggg ttaatgcaaa tgttcccggg aagacttgac 243000
tcaaatcgta gtctcaggga gggcaacggg ggaatcatcc tgtccaatga attccagaaa 243060
tagcaacaaa agctcagagg aaattagccc ctgttgctcc attgacattc tctggccatc 243120
gtcctgtgcc agctgggcac actgcttgga aaagaaattc atttgtgttt ctctcctttc 243180
tcttaagggt ccagaacctg attggaacct aggccactct tgaaaatatt ttcttggaa 243240
ggaaagcaac tgcatacaac atacgtttac ctgctgtctg ctttcttttt tgggtgttgag 243300
agtctgatat tcccttgget acctttcagg atttcaaaca gagtaaccac ttcacgggca 243360
aaatggctag caagatattt atctttgtat ttttagcatc aggatgattg atatctcaag 243420
atatttctgg aatatgtgtt ttttgagatt aaccgcattg tccttatatt atgcaagttt 243480
attcttcgtc ttgtgatttt cgacatcttt aatatttgta tttaaaacca ctgtggatcg 243540
tagtcactac atggagagtc ttagataaatt aattcttctt ttgaatgcac ttattgattc 243600
cttttttttc cccagcataa gtaatatctt aaaattgaag atggccaata ttctttttct 243660
gagtagaaaa ccaattcaac acatattcat tgttgctatt gttgtttgtt tggagacaga 243720
gtctcactct gttgcacagg ctggagtga gtggcgccat ctcagctcac tgcaggcttc 243780
aactctcggg ttccagtgat ccttcacact cagcctccca agtagctggg actacaggca 243840
tgtgccacca agcccagcta atttttgtat tttttgtaga gatggggtct tactatgttg 243900
cctaggctgg tcttgaactt ctgggctcaa gctttctgcc caccttggcc tcccaaagt 243960
ctgggattac aggcatgagc caccacatcc agccatcgac acacatgttt agtactgttt 244020
tcttttgtcc ccattcatgc ttatcagcat tagtaggcat tgactgggta tctagcttgt 244080
ccttattatt gagtagtcac atttctcttt ttcagctaaa attatttatt tgtttctttt 244140
ttgtttgttt ttatatgat tgtttactat tggctttaga cttcttacct ccaaaatgaa 244200
catgatcaga agccacacat tttccatgcc cctagtctgt tatacatgat ttgttaaaga 244260
gagtagctat gtcagctcct tggcagatct gagaaagcat atgatgttat gacaggcata 244320
tctacaaatg agccttgtgg ataagaacta gacagaagat ttagagagaa ataatgttga 244380
tgtcatccca ttggaatgat agagctgtta caaccagaaa tacattctat agctagtagc 244440
taagcgtgta gctgtatttc ttttctaaga aggaaaaaat gtgaaataaa ccaaagaagt 244500
aaattatgta tataaaggag gatattttta ttagtttagg tcttaacagt tattcaaaca 244560
gtctgaactt gggtttcttt ttggagcaaa catgacaacc attatttatg gaaagtttaa 244620
atttcacatg acacatcttc cctctatgtg tgtgggtttc tttctctctt tttctttctt 244680
tctttctctt tctttcttct tttctttctt tctttcttct tttctttctt tctttcttct 244740
tttctctctc tctctctctc tctctctctc tttttctttt aaaaaaaac atttactttg 244800
cttgtgtgtt ttcatttcaa ccttcccttt actaaaaaat gctttatttc cttggtgtag 244860
gagatttgct tttagggaag aggaaagact tgtgtctcta agctgagccc ccctttcctt 244920
ttttagcatt tccagataga ctagtctca gctgactgtg gacatgtttg aattagaggc 244980
tcccatctta gctccttttc aaaaactttc ctatcattaa atgtgcctat atctgcaaaa 245040

```

caaaatatcc cttctcagtt tgaaacacta tccaagagtg ccttattatt attattatta 245100
ttaattaatt aattaattaa tatatatatt gagacagagt ctactctgt caccaggcc 245160
ggagtgcaat ggtgcagtct cagctcactg caacctctgc ctcccgggtt caagcgattc 245220
tcctgcctca gcctcctgag tagttgggat tacaggtgtg caccacatg cccagctaatt 245280
gccattcaac tactaagaag gcagcaatgt agaaaatggt tttcatgttc atccaccgca 245340
gctgtgatca ccagcaaggt tgaatcaggt ggaaaatggt ttcgatctgt ttatttagct 245400
gcttcagtgt gaggaataag aaatataaag tttgcttaca cgatttgtgt ctgagttcac 245460
ttacttactg cacaccagaa ggtgaaaagt agcccctgag aatgaagaat aagaaacttg 245520
tcctctgacc ttgcaccaga acctgcgtt tctgcactg gggcaatctc ttgttttagtt 245580
ggcacacacc aaataccaaa ttcttaagag gggaagaaat taaaacaaga cagagttttc 245640
agcttgaata aaaaagatat cctaaaggca aatcagcaga attctttttt gttttgtttg 245700
cttatttttg tgaggagatt agttattctt ctttcttca caatatggga ggtgtgtgta 245760
tgagagagac aagagaaaaa gaacaaaaaa ggaaaaaag aaagcatgcc accaaacaat 245820
ggcttcatcc aaactctgac atacagtctt cctacagctg ggctctgaaa ctgttttatg 245880
gaaacagtgg tcattcagtt gacttcgagg cacacttaa tcatgcttag ggagagatag 245940
gccaagggct tagttaactc acttatttag gtcgtagagt tgtgaatttt gacattttca 246000
tactacactg ttagcttttg tacaagagtt tattgtttat gtgggaagta actgtcactt 246060
taaacacagat tttattttta ctctgtttg gtgcaaattg tgtgcccggg ttttatttac 246120
cttttccttc ttagtctgtg gcagcaciaa tggaaaagt ttaaataaat gtggtgtaag 246180
tgtatttttc tctcttttta cccatattta caattagaag cttgaaagaa gacagaattc 246240
tatctggcct tgggtaccag tttctcctaa tatgaggagc tagtgaccag acacgatagg 246300
gcagtgattg cattgtcact acctccctc cccatgcctt gccattttta tttttatct 246360
tctcagaatc ctttgtttat ttggcccat tcaaggccca ctttttaaatt tcttcctttt 246420
ctcatataca ttccctgcag ataggtggcc tttgctctgt tcatttgaca accttttcta 246480
agttaaaagc aaacaagaaa accaacataa acctcccat aggactgagc aggtctcctc 246540
tgctgccttc tctttctccc atctacctca aggccaacac cccaccagtg tcaacccgt 246600
gttttctttc tcaatgtcct ctccctcagg atccccagat ctcttttaac tcttcatgat 246660
acagtcaaca gaaaggttct acttgctttg ggaccatgta ttagacttgc ggccctggag 246720
aaatcacatc tactctctga gcctcagttt cctcatttgt tccttatctt ctttcctcag 246780
tcaacaaaga cacctacgaa tgggtgtgcc agcaccggag atgagaaccg tgatgagcta 246840
agtaggcata agttcctgtc caccactgtg aaatggagca gagagtgtcc atcttgcagg 246900
ggacattgta aaaattagca aggtggtgat gcatagacca ccatgtatgt aggtgctcag 246960
gaaatgtcag tttttgtgat tataatgaaa ggcaaacaga caaggcaagt cctgacctct 247020
ctttggaagt tgtttttate tttgaaggac ctttcccttg tatttctggc ttttacctga 247080
aattcaatct ttttgatttc ggacagtttt ttttttttaa ttctttttaa tctagcttct 247140
ttctctaatt tttctttttt tctgttaaaa gcatagccat ttcttctgcc atgtgtgttt 247200
gaaagcaagg tgggaggggc tttccagttt gtgtgggaca aagcatcctg ttttaactcc 247260
gttcttttat agtgatttc tagtgcatag tcctgaggat gttttatttt ctgatccctt 247320
taattcttcc cttctttctg tgttgacttg gtgattgtcc ctcttctaca cttttattac 247380

```

tccaaggata gggctctgact tgttgccttt gtaagaaaat ctaaatagcct tcttcatagc 247440
aggaggaaac agttacctcc ttcaactggc tgtttgaaca tagctatgtg agtgtttgaa 247500
accataggggt ccttcaaatt ctagaataac cagaaattga gaacacgttg tctttaacaa 247560
cggaaccagt tcatttattg tgactatggt tatgttttgt tttgattttt tttttaaccg 247620
acagttaact tttgagatca tataatattt acagtttact tagcagaggc ttccagaaaa 247680
tgtgagggtg tgtccacttt tggtttatgg acacaattta tatcttaaca tgaatacata 247740
gttataaatg agcttatgac atttggctct ttgaatgtgg gttttctttt aaaagggttg 247800
agttttcaaa aacatcatat tgccaccagc ccatttgttt ttctcaccag actaaaggta 247860
gcatgtccta ctaaacagaa cacaacagga aaaaaataa ggaacaaatc ctttttaagt 247920
ttggagtggg gccaaactaca agtttttggg atttttaata tagactttgt tcatttattt 247980
agtcaggaag tgtctattga gcattgcacg tgtatgacct atgctgggtg ctgcgggtta 248040
tggtgattgt gtcctagggc aggggtcact gaactatata gtctccctgt agcctgtttt 248100
tgtatggccc acaaactaag aggttggtta cattttaatg cgttatgaaa aaaaacccaa 248160
aaaacagaat atgcaagaga cctatatgtg gccacaaaag tttaaaatat ttatttgatc 248220
ctttaggaaa aaatttgcct actctagacc ctgtggtgtc tctgacttcc tcaatcttat 248280
gtttgttggg aagaaagacc agaaataagc gaacaaataa gcaagataat tcttttcaga 248340
ttttgataat tgataaggaa ataggatata agagtgcacg aatgaggct ggggtcaggt 248400
gtagcagttt aggtgggatt ttttgaaaag ataacttta gattagacct gaacaataag 248460
gacaaacagg tctgtgcaga gctgggcgta ttagcccatc tctcactcct tagatccaca 248520
tcccccttcc cctccaagt cctgcttatt atacacaggg ctcagctaaa tgctggttcc 248580
tggaanaacca tttcagatgc cctcttttgg gttatcttta ctatagcacc cattacaagg 248640
cactgtaatt gcctatttgg tttcattctt tccacctccc ctccactaga cttgaaatat 248700
cttgggggca gggacatatg tcttagtgat catatccctc tagcatttag ctcatgaact 248760
aggttgaatg gagtctgcta taaactcaa attagattcc atcaagccca ctgtgaaaat 248820
caagaagatc ctctaacaaa ttgcagattc ttaagtttaa gttctattac ttgtcttttt 248880
ttgtacacat gcttcccacc tcgtactctc ttatccaagc actattcttt catttctaaa 248940
acctaattat gccccacccc aaaaacatgc ccatttacct catctgatta aaaggcacca 249000
tcatccatcc agttgagcaa gccaaaaact aggaattatc cttggtgtgt cgcatttctc 249060
cactcttacc catcacatcc agtccttcag caccataacc tcctcaacta gtccgtgtctc 249120
accgtcttta ctctcagttc tagcccaggc caggtctatc ctatcctttg cctggggccac 249180
tgcagcaatc cctgactggg ctttctgtct cttgtcttac cttccttata ttcatgttct 249240
acacagaaga caaacacatc ttttcaagc caaagatct tatctttccc ttttcttaaa 249300
caccacagtg actgcccac aaatgtaaac attttaactt aagtaaaca gtaaaaaca 249360
gtaataaac aagtaaaaaa acaactcaa aatttgagct cacagcccca aatggagtaa 249420
ccattgtctc ttcaaccaca tcttactctc agtttccagg taccttggtc cctccacttg 249480
cccttcttag gacctattct ctgttgctg ttagattatt aaatgttaaa atggaacct 249540
gtgttaatct cgtaacatc gtgaacactt aaaactatac agtggcaagt cagtgaacca 249600
cagtgaact ccattcccca aagacacctt cattctgat tttcctggta acatttgtaa 249660
tatcaaaaat tcgtgataac aggcaacgga tttaatgata actctagtta aaaggccttg 249720

gggaaggaac ttgacaacct tactgccttc taatggtatt gtttttcctt ttttcttttt 249780
cgcaatgcag aatatgagtt ggaagtaaag aggggtgcaag acattctttc gggaatagag 249840
aaaccacagg tatgtcttct ggatttctca gcataaatga cactttttta agtatttcaa 249900
atgtgctttt tttcccctcc accacacagt aggtaagcaa aagggtcctt tccctttgca 249960
gattactcat caactatgaa atagtgttca gttcagttat taatggagca tgagacatag 250020
aacagcggcc ttctgtgtgt agtcataatc cactgaaatg tctttattta ggtgttctga 250080
atgcagttag atattctttc caaagattct ttcttttttg tctctctctc tttttagtct 250140
acagttttct tttggtagtt tttttttttt taacctgtat aaatgtagta ataataattt 250200
ttgaaaacct cagtaatccc aagtattttt ccaagtaaac ttcaaaaaga tatttaacta 250260
ttagctgtga aaaataagtc cagaacattg ggtgcaatgg caggaaagaa aatggtcgga 250320
gtggtgaggt tttgattttg ccaggtgctt tgaaattcaa gtgaaaaatt cagaatgttg 250380
atccagcctt tcatctcaga ttagagccag agttcttttg agtattttct agctgaattg 250440
gaaaaccttg attctgcata tgtttcaaact actgaggctt tttacagaa gagtccaaac 250500
atgcttcagg gtacatagtt gagtttgaca acctgaaagc tggaggtgtg ttgaccaaca 250560
ggcataataa ggcaacttga gaggattggg gtgttgctgt ttgggggcgg ggtgcgggga 250620
gtctgtactt actttggtga ggagcaggct gccactgggg gtttttgagc aaagaactta 250680
tgtaatcagg gctgcatttt cagaatgatc gaacagttgg cagatgagtt ggagtgagaa 250740
gaaggagat gcagggaaga gcagtgttag aatctactac tgtagtcctg gtgaaaggct 250800
atgggagtca gaattagggt ggtaacatct gtgtggcagg cagcaggga tagatactag 250860
agctgttcta gagatagaat acggcactat aacctattag aattgatatc aaatgtcaag 250920
gataactggg ctttcagggt tcaatgcctc ctctcaagaa ttgcttcctc taagacgctt 250980
ccctgattgc tgtccatgcc catcaagtgg gaggtctac cccagcttt gctgtgcctt 251040
ccatggactt ctgctattgt atttaataca ttgtactgca tctacttggt tctgtgtctt 251100
tcctggtaac ctgtggtttc tctagaacag gttcacatct ttgtcctttt tgtatcttca 251160
gtgccattct tggacatgct gagtttgttt cactgtcagg gaatctggaa cgatagatac 251220
agcgggcggg cacaatgtc tgggaggccg atgctgagga gcgcggagga acaagataca 251280
agacagggag atcacatgtg tagcaatgat acgtcacgtt gtaggattcg atgatagctt 251340
tgcagacagc ggggtgcagta taaggagag agattggaaa aggcgtgagg gcagaatctt 251400
ggaaaaagct tatgtttata gtgtagtaga gaagaaaact ctgcgaggaa aacagaggaa 251460
tcataatcag agagagggca gagcaacggg ttactcatg gtcccaaag tagtttcgga 251520
acgtcatagt cacttcttag ttatgtttat gcacatagt ctttctctca gatattccta 251580
gtcactgctg cgctgaagaa gtgacacaat ctctgtttct tgagggtgag atggctctag 251640
caagataaag ccatatttag attcattggt ctttttctt gatgcagtat ttattaggca 251700
tttaatcttt tgaggtttta cggcaggtta ataggctttt ttaagtagct gtgttgtaaa 251760
atataatagg gtagaagcgt catctgagaa cttttgttgg tatcatttgg aagcaaggat 251820
tgcttggtca cagaagcacg tagatgttag ctctacccat gacagcctga ccaggctgtt 251880
ctgcacccat catagagaat tggttctca gagcctactg cttttaggcc cttgaatcag 251940
gtagatgact cccctgtttt tcatttggtt ctacttagt agccttttga gaatttgact 252000
tccttggtgc caacagagag aaagtatgtg aggcagggtg acagtgtgt ctaatctacc 252060

agatacttct gtttctcatt atgaatcaat taactggcaa tctgattgta tatatctgat 252120
tccataagtc ttatagtttg acattcaagt ctgactctgg aatcagggtc gcatTTTTcag 252180
aatgatcaaa cagttggcag atgagttgga gtgagaagaa gggagacgca gggaagagca 252240
gtgttagaat ctactactgt agtcctggtg aaaggctatg ggagtcagaa ttaggtggta 252300
atatctgtgt ggcaggaagc aggggacaga tactagagcc gttctagaga tagaatatgg 252360
cactataacc tattagaatt gatatcaaat gtcaaggata actgggctag attgtctgag 252420
tctactgggca ggggcccgga cctggcgaat tctactcaggt aaatgccaca aggtaacagc 252480
ctgtctgcag agccagccag cttacctgga ctccattctg tctcgttacc ctctccaaa 252540
cctttgaagt ggcttctggg tgagaaattc agtcaaaaga taacatttcc atatcagcat 252600
ggcttagatg ggcacagaca tagtcaatac agctgaagag tctccttagt cctgtaaagc 252660
tgagttgtt aattctgcag cataagcagc acattatctt tctaggtttg gaaaaggcgg 252720
gttgagaaac tttctggagg tgaatagaaa caaagcctca ggtagttaca cactccagag 252780
tcattaaaga tctgtagatc agcatttata tctcatgccc ttttaacagt gaggttgaa 252840
cttgccaaaa tactacaccc taccttttaa gcagttggat gaaaatcacc tgataggaag 252900
tgggcgtctc tggacacagt tgctttgcca gcatgtgggt ggtggttggg gtaaccacc 252960
ctgcatgtct gattctctgg atggcagtg aaatatatcc gggttacctg ggctgaaggc 253020
atagcagaca aggggagttt gtatgaagag tgccatgctt gttcgtgcct cctgcttttg 253080
cacatgacta aaacaacttc tcttctctc cacctgtatg tttcctattg ctgctgtaat 253140
gatttaccac aaattgaatg acttaaaaca gtacaaattt attgtcataa aggttttagag 253200
accagaaagt ccaaaatgtc tctggctagg atataatcaa agtgttggca gagctgtatt 253260
ctagaggctt tgggacataa tctgttttct tgcttttcc cctcttggct ctgtctgcaa 253320
agtcagcaac catattcccc cagcttctac ttcccttacc acatgcctgt ctccaactgt 253380
cttgactcct tctttcactt ataaggaccc ctgtgattat actgggcca tccagataat 253440
ccaggttaag tctccccttc acaagagcct taacttagtc acatcttcaa agtccctttt 253500
gccatataag gtaatatatt catgggttcc aaggactagg atgtggacct ctttggggac 253560
ctaccacact cccctcctga tcctcagaag cgttcttgcc tgagacagtc cactgtttct 253620
tcccaaccca gttagttgtt tatgcagttt ctctctctcc tcttcgtacg cttttcttc 253680
tgaagttttt gtttgtgatt gtgtgttatt taacttttg ctccgaatac ctagcactgt 253740
tcttgacaca tagtgaaccc ttaacagatg tttgccgaat aactgtgtga ctgtagctgg 253800
gttctggcag gtgggacaaa cgctgaagc ctggccagcc tcaggatgag cctccgccag 253860
tgtataaggc agcagccact agagggaagg cctgtgcttt gcaatctggc actctgggtt 253920
gggacttgca ttggctatta cctgtctttg tgaccttggg taagttagct agtttcttg 253980
tgccctcagtt tcctcatctt tgaaaggtag gataagaaat actacctata gcgactatct 254040
gagaagtcaa ttatgtactt agaatgcagt atttatagtc tgtagcatat cgctaagcaa 254100
aagtgaact tctgtgctct gacatgggaa ggagaggtat cgggccatct gacagggaaa 254160
gaagcagagc catggaaagt tgggcacaca gttgtaaaaa ggattattta atttttgtt 254220
cctttcagcc acaactggta gcacctctaa ataaaaggca tatattttgc tttgaggttt 254280
tgcagatgat tttatttagg tgcggaacaa tacgtagtac ttgtggattc cagttatctt 254340
tctagaactt tgggcaccct gaattgagca agcctccact gtgacagagc aataagccag 254400

```

gtattattct gagtggctta ggaattggcc agccatctca agcctaattgt ggtctgacct 254460
tctctgggtg tgggtgctccc atagactggg gggctgttta ttttcaggat ataaataatg 254520
taacctggaa ttgcggttct gcattgtttc tatccgcgaa tgtttagctt gttgaaacaa 254580
ttgatttgtc gggtccagaa gcgagtaaag tgacgtgtga ggaacacttc ccctgtaaga 254640
agcagtcctt tgaaagataa acagtagtgc acctgggagc acataggcgg ctcttagcac 254700
ttaaggaatc ataaaaacag atgactgtga aattcttaga tttgagtatc ctttttcttt 254760
aaccttttcc tttttcattt attttccttt gtgggtgggtt ttctcatgat gatactttag 254820
aagtgaagcc agtatttgtg tggtaatatc tccttagtgt actctttaat tagatcagta 254880
ggcctcccac atagttaaat ccaaaggcca gagcaattt agaagctatc aatgtacaag 254940
gaaatatatt tgaacgtaaa agaaacaatt tagtagctgc gagaataaat ggtgtttctg 255000
atccaagtac tatcatttgc ataataataa aatctcagaa aaaaatagaa aattttacag 255060
aatagtatta aaatactggg atgaacagga gagaaggtgc aaggagaaag gaagctatgg 255120
attacatatc gaatagctac aggacaatgc agttttataa tttccttata tacacatata 255180
cagaacaact gctttcaagt tggagtctac atttaataaa cagacaagaa tgattttctaa 255240
tcattagaaa tggtcacatc agtatgtgac catttagaag taggaagtaa ttttatgagt 255300
gcttcaaggt gctaaaaagc agtttagttt aaataattca tatgcagact tacactaata 255360
acctatacaa cagacccttt tatagcagtt attgaactgc tttcaaattg gaatctacat 255420
ttaataaata gacaagaatg atttctaatac agtatgtgac cacttagtag taggaagtaa 255480
tttcatgagt ccttcaaggt gctcaaaagc agtttagttt caataattca tatgcagatg 255540
tatactagta acctatacaa cagacccttt tatattacta ttgcagaaac aaatgtcaga 255600
ttgcaccttg tccaatagtt ttataactag aagttaccac gtttatcacc atcaaaggag 255660
actgactttc tagttatggt aggttaatta aatatcagga agtcagttag ctttatggct 255720
tctaaacttt tttgaggggt gaggagaaca acagctatga tgatcactgt gatgatcaga 255780
ttagccatgc cctagttaag cttgggtggc actgctggca agaaagtttc agcacacaca 255840
gacttgcaat gtgaaggctg tatatgagtg ttgttgctct gaaataggca tgaaccaga 255900
tagagttcct agagttccaa atctctcatt aaagcattac ttcccaggac acttgagta 255960
aatatgtcta gtgctgagaa ttcaccttca agtaacattc tcttgaaaga cagcatgtca 256020
gtttctggaa acagccttaa gtggaaacaa gttccaagtc ctaatggaga ccaagtgatc 256080
tttttctcct gattccattg cctaaacaag ggcacctca gtccaagagt caatgaaaga 256140
gagagagcag gaggacaaga gggatttggc cccagaacat catcatgatc tgggtgtctg 256200
gctgcttagc tcaaggaaaag aattcacaga aaccactatc ttttgagagt gatgctgagt 256260
tgtcaaaactg catttctgat aggctagcat attggaaaaa tgtatttcca caaacatctg 256320
cattgcatgc cgatgacagt gtacatcctg aaggcttgct taggcactct aaggaaaaag 256380
tgaatgttat tttagttgat gattcaagtg ttgtatttct ctgttcaggt aaataataat 256440
ttaaccaagt tctaaggga aaaaagtaaag ttgtcatagc tgacataaaa ggtagagttt 256500
aaaaggatgt gactttatgg atatttgttt ggtatctaga atgttgcat tcgactgagc 256560
tattttgaga catggtgtta cttcacacca ccattcatag aatcagtgtc actgtcttct 256620
gtgttcttgg gtgcaaagca gccacttacc accttggtct agtggtttct ggtaccttat 256680
gagcctcttt ttttccaag aaactaaact ctttgtaaca aattatctcc cacattaaaa 256740

```

```

atcaaata acaccaaata cctcaggatt actcattaat gatatgtgaa gaaattgagc 256800
agatatactg ttgtatgtta gaaatgctgt cttaaaatct aggtagagaa acaacataca 256860
aataaccaag taatgctcta atgtaacatg caccaaagtc agggacggaa aatacggcaa 256920
aagtacaaag aagagtgatt gaatctgaca gtgcagacag tacagaaatc tgtccagaat 256980
cagtctcagg aaacctaaga gtccctctgt gttcagtata tctaccgtga gtcccctcag 257040
gtacctgtcc gtcttcaaca ggttgggggt cttgaggcc aaagatcata cttcatcat 257100
ctttgtgtcc acacagcccc tcacagggtg aagtatgacc attaaatgaa taaacaaggc 257160
atttgaactg ggtccaagag aagttgggtta aagccaagaa agtaggagag ttaaaagcta 257220
agtcacaggg gcatgagaga gggcataaga gaggccagca tcctggaggg gcggtaacag 257280
cattgtgggt caggtggatt ggaggggtgg agaagagagc tgctagtctg gagccatagc 257340
aatcttcctc agatgttttc cagagatgtg taatacaagc ctaccatctt ctgtgttgcc 257400
tatggcagaa acttagacca tcttatttcc ttttattttt ttattcaaca aacatttact 257460
aaccaaccgc tgatcacagt tgaatatgac ttggattctg tccttaggga gtctcaaagc 257520
ccaagggagg tagacaaagg ccataacatg attagcaatt ctagcaatat ccacaagggt 257580
ctgtagaaca cggaggagtg acgctgcatg agataattta gagaaggcta ctgggaggtg 257640
gtgaggctgg gctgggggtct ttaaggatga gcaggagttt gactaagtaa ttggctaaat 257700
atatcatgat attctattta tatggaataa acagtgtgaa gtgatctcca ctaaaaatgt 257760
agtgaaggac ggactgaaga gagactctat cttcattttc catattttatt atttgtattt 257820
caagtattta ataattctaa taatctttat atagatcaga tgtgacaaaa atggaagaag 257880
ggaaaaaaaaa gggactgaac agtttacctg tctccatcta cagcctaata atctacagct 257940
ataaagtctt tgtgaacgtt aaggttttagc atctgtatta agtcctgttt gtttttaata 258000
tgctatccag accaatatcc agatagcaat agaatagcct ttagaaagtt acagcattaa 258060
agttttgttc ttagatttat tttaaataat tagatcatat ttttaagttga gtttctccag 258120
aaaaggactc taaaaaaagg tttgagtga aatagtttct gtggggatat ggcccaggaa 258180
gtcctgggtg gagacaaggg aactgagaca gagaaggga gtgtattagt ctgttctcgc 258240
attgctataa agaactacct gacattgggt aatttataaa gaaaagaggt ttaattgact 258300
catgcttctg caggatgtac aggaagcatg gctgggaagg cctcaggaaa cttataatca 258360
tagtggaaga aaaggggaag caggcatgtc ttacgttgcc tgagaaggag gaagagagag 258420
agaagggaga agtgccacac acttttaaac aaccagatct tgtgagaact cacgtcaaga 258480
gaacagcaag ggggaagtct gccgcaatga tccagtcacc tgccaccagg ccctcctcca 258540
agactagggt ttatagtttg acctgagata tgggtgggaa cacaaatcca aaccatatca 258600
ggaaggaagc ccatgcaggg tctatcaata aacagttat agctgtggtc agccagagct 258660
tagtcctcat aaacacctct gaaagataga gtagattttg taaaacatgc ttcacaatag 258720
tatttttaaga aggttctggg tattttaagt ctgagagctc tcggttcaac tgaagtctga 258780
agcagaggct aaacaaaaag tataaaaaaca gagcttagaa tgggtgaagca tttccacttc 258840
tataatgata ttaatcccat atcagcctgg tccttggttc cagttctcca ccattgggt 258900
tgtcctggga atttgcagga cttcaaggga tattattgga aaggtattag ctttgaagaa 258960
tgatttgaca ccatgcaagg cttgaaacca gatccgagta cctgtgggta tggcttcttc 259020
cacataacgt agaaaccttc cattcaggtt tttacttatg ttaaaaaaaaa attccctcac 259080

```

```

atgacattat tttactttat ggaggacaga atgcaaattg cactggattt ggatgaaggt 259140
tggcattgca agaaccatat tttggacacc aggactttga aagagagcgc catataagac 259200
gtctttcaat ataattaaac tagtttactt tggattaact ttgagccagt tttatgccac 259260
taccaataat tctgaaaatg taaaatggat ttgaataact gtgtcgcacg tttctcttcc 259320
gcaggtttct aatattcagg cgagagcagt tgtgttgtcc tgggctcccc ctgtcggact 259380
ttcctgtgga ccccacagtg gtctttcctt cccctacagt tatgaggttg ccttatcaga 259440
caaaggacga gatggaaaaat acaagataat ttacaggttg tgtatgtttc tattgttttt 259500
ctttgctgct aaactataaa attggagttg tgaaggaaaa tggaaaacaa agggaaactt 259560
tacaggcttg gtaaattttc ctttagttta ttttaagatt tagtaataat tataatgcta 259620
agaaatcatt gtgtccagag taattcttat ttggaaatga gtagcataga gctattaggt 259680
atgggtaaaa tacatcactt gggttatatt gctgtcagta gagtattaaa gaaaactttc 259740
tgttaatgtc tgttggcaaa aggcgattat gacttttagt ttttctatac attgagtgat 259800
tataaggtag cttctctatt ttcagatgca gacctttttg tagccctgtt ttttaaagtt 259860
ctgcaatatg tttccttctg ttttacccta tttcttacct tccacaatag tttccagcct 259920
gtaataaaga tacttcaaaa catttcattt cgaggcctta aatgggtcaaa agtttagctc 259980
acagagaagg gattagcccc ttctgctctg tggactccca ggtattgacc attgaaaaga 260040
ttgataactg tgttctaaat gtgagaacaa ttttagggcc atgtctttct tctttgtaat 260100
tactgggcac tactcagatt tgcagagcag gaaatgagaa agtcagtttt gttttaactg 260160
cttgtttggc ctccctgtga gaggaccctc ctgtgactgc ccatgcccag ggtaataatg 260220
tggtcacaca atcctcactt tttctgccag agatgtttgt attctctcct atttcctac 260280
tgcacagtg ccgcagagcc gtatcttccc ctttctgtt cctaattctt gctccacagt 260340
cttcttgacg agcaaagagg gacagagggt aaggacgcaa gccctgtggc tgctgtgtcc 260400
tcctcttgct accgaggcta cctccactgt cttccctgga tgccctcagg agtctcttga 260460
gggtcttcca ccccctactc ttgctcttct acaaccttgc caactcactg cagaaacaaa 260520
atcaggccag atcactgccc ttctgataac actccaggga ttccccactg tatttaggat 260580
attcctaact ctggctcacc accattttat tctagcctga aaaatcagaa ttagtatcaa 260640
ctttaaagaa atacagagtg ccgccaggcg tagtggttca cgcctgtaat ccagcactt 260700
tgaggaggct aggtgggtgg atcatgaggt caagagatgg agaccatcct ggctaacacg 260760
gcgaaacccc gtctctacta aaaatacaaa aaattagccg ggcatgggtg cgggcacctg 260820
tagtcccagc taggaggag gctgaggcag gagaatggcg tgaacccggg aggcggaggt 260880
tgcagtgagc tgagatcgcg ccactgcact ccagcctggg tgaaagagac tccctctcaa 260940
aaaaaaaaaa aaaaaaagaa atacagagtg ccatctcccc catgcctggc aaggagcaga 261000
tatagttgac cttgaacaa cacaggtctc aactgcacgg attcttgtca accacatgca 261060
gaccagaaca atattcacag gatgtgagac ctgtggatat gcagggtcaa ctggggactc 261120
gagtatgtgt atacgctgtg tgggggtggg gtcgtgttac tgatttctt gtatgtactg 261180
agggacaact gtggatagag ctttttcatg caagatgaac attggtggca gaagctagag 261240
cctcaaatgc ccagagaggt tcggccggtg acatacgtaa gcaagtggaa aggctgaaaa 261300
tgaggatgaac aggagagctc ctgttgccat cgaaaaacag tcgccactca gccttaagtc 261360
gattgttgct aaaatttgct gattctttga attttttttt caaaagatgc tgaaaatctg 261420

```

aattattgta caaatttccc tgttactaaa ctaatggagc aaatgcaaga tcttttataaa 261480
gatacaatgt aggctaaaca acagagcttc aggcaaggctc tggatacaac ttccagttca 261540
caacttaaaa aaacccagcc ttttatttgg aataatttca aacttaaaaag atgtcccaaa 261600
aatagagaaa tcaaggaata catgtatact ccatacccac attcagttgt tattaacttt 261660
atactctgtt ttatcatttg acctccttcc tcttttctc tttctgtcct caatccatat 261720
ttttttcata agttttatat gtaatgggtcc cttactgcaa aatccttcag gatattttct 261780
ataaataaga tttttttttt aaaagaacca cagtgttaatt atcaacttca taaacttaca 261840
ttgatataat actttatctg ttgtctatat tccagctttg tcgcttggtc cataaataat 261900
acctgttatt ctgaaaaatt gagcagtttt ccacccctc ctgctcagga gctagtctag 261960
ggtcagacag tgcctttagt tgtcatgtct ctttagcctt ctttaatttg gaacacttcc 262020
acggtatttc tttcactttt atgacactga tatttttgaa gaacacaaaa taagtccat 262080
gcccacacac ctttcacctt tttaaaaatt ttcaatgaaa cattccttat tttgtgttg 262140
ttacttcctc atgatttaag ttgaagttca gtggcaattt ttgagtatat aaatggtttt 262200
attttattta agagagctat ttgttgggtg cattggtaag tgaggaagtg agattgtgat 262260
ttttgttaaa gacagtccag agttgagata attgaggttc ctgccaaggt aagtatggaa 262320
agtgccttct gttaacagtt ggctgatca tttttattca ttagtttggt cattcattca 262380
tttgccttact tagttacttt tatgtattta cttgtaagaa gtgataagat cttttagaat 262440
tttattagta agttaactat gccattttca agatctaaga tggcatcatt aaaaggaacc 262500
tgattttcta gtcccaaaca gataataata tcaaataaga aagttttatt ctggtttatg 262560
gtggaatctg acataatagt tcatgaatta ttgtcagtae attactggac acccaaatec 262620
caaatectgt ttgcttttga aactgggtatt agcaactaat gaatgctttt tctttacagt 262680
ggagaagaat tagaatgtaa cctgaaagat cttagaccag caacagatta tcatgtgagg 262740
tgagtttagga cataagagcc aaactgtatt ggagaatcca ggtggctaaa gcaaaaacct 262800
gtgccccctt ttaagttttt ggtgaatgtt gcttaccttg ctgtaagttt cagtaccatg 262860
gctcatgggc cattcattga ctctcaagac catagtaact gggaagacac agaagtgtt 262920
ctgtgaacag aaaattaggt gttaaacact gaaaatcatt ttaaaagtaa ttttacatgg 262980
tcttctaaga tctgttggtc tatggtttta cagtttctt ctataaaaca gttgaatttt 263040
tttttttttt tttttttacc ttgggcataat cagtgtttct tatagaccat catataaact 263100
gtatattcaa atgactaaag aagcccttc cttattgcaa gcacaccatt aaaccttaa 263160
agccagtaga ttttgaaaaa ggcaagtaat acaagcatca gattatctct gacgagaatg 263220
aactcaattt ggcaaaaacag ttaacccatg tggatatgat tgtagcctga aatctctact 263280
gtgatcttct ggagtctcta ctgtgactac tctggaaggt agggctagct tatttttagga 263340
agaaaccag ccaaccacag atctgtaagg aggaaagtgt tatctgaatt tttagagaga 263400
ccatctgatt gtttaaagat ccatccatcc attcatttgc caataagcag gtctgaatat 263460
gaccataac acttaaaaaa atttttttta tctttatttt atttaatat taagttcccc 263520
agaaagtagt tttgtttaac tggatgtaca acaacacact ttcccttttt tttcaattat 263580
atatgcatac gtaaagattg cagaataaaa ttgtaagcat gaaatataca tctgttggtc 263640
gggtgcggtg gctcacgtct gtaatcccag cactttggga ggccgaggcg ggtagatcat 263700
gaagtcagga gatcaagacc atcctggcta acatgatgaa acccgtctc tactaaaaat 263760

```

acaagaaatt agccgggcgt ggttgaggc gcctgtagtc ccacctaggc aggaggctga 263820
ggcaggagaa tgacgtgaac ccgggaggtg gagcttgagc tgagcagaga ttgcgccact 263880
gcactctgac ctgggtgaca gagcgagact tggctcctaaa aagaaagaaa agaaatatgc 263940
atctattatt atactttcca aagggttaatt cacatcatta gtttctttgt gatttcagca 264000
tgaggttgga ggcaaggtag tctagtagga agagcatatg agaattatca ggaggcttga 264060
gtgcgagtcct ggttctgccg tgaactggct gtttcaactt tgggtcaagtc acatagaagg 264120
ctctgccatg attttctcag ttaaaaaaag gtagtaaagc aaggatgtgt gttgaggatg 264180
taatattctta ttaactgcat gagttcttaa aaataagggt aaagcaatgt atatcagagc 264240
aaattgtttt gcattaaggc ttaaagcgca catctgctta gttatcatat tgtttagatg 264300
aactctattg caaccatctc ctctgttta atcaaaactt tggattttga gtcagttagc 264360
ttctgcccac acatattgaa cttttcacac gctttgtaca agaagatctg tgtaatttgt 264420
gaagctaaga tgataataga aatggtttta ccattcttca aaatggtcag tataacaaca 264480
aaccagaaaa tgtaaaagtc atgtaaatgt tatctattat tcattgttaa cgtatgtttc 264540
tttctgctcc gtgctttaac agtttattgt tcctgtggtt agtaaagggt tactttatta 264600
atttcctgct cattgatgag cttacaatat ctttttctcag aaacttaaat gtcatgaaga 264660
gccttccctt tatttaccat cctgtctgtt gttccattta tttatttttt ttaacactta 264720
ttacaaaggg taaatttgag agcacttgct catcagctgt ttttcccaac aaaacctgtg 264780
aacatcttga cctcctgagc agatagaata gttaatgcat tccccaaaag gaacaggatg 264840
ggagtatgag ggggttacca tctaggggcc ttgggtttag actttctcct gacacatttg 264900
ggactccttg catttgcctt ttgacacacg tgtgacacca aacacataca acctagggtg 264960
ccaccagctg ttatttgttc tacctctctg ctttcagga agataggaag ttctctctcc 265020
ttggtgatgg tcaattttca tatttttata acgtcctttc tctcctaata aaaatgtctc 265080
tagtccagat ttagtctctg tgcactgcct gatgcacagt ccatgtagat catacgttct 265140
ttttcctttt acagtctttt cttttttaag ctagagaaga atcttaacac ttgcaactct 265200
tacttagacg taacttcctc tgccttgaat tgcttcgggtg aggcagcatg atgcatagt 265260
gacatggctt gcaacttga gttaatgact ctgtcattta ctaagggtgt gtgcttaagc 265320
gagccattga aacttctttg gtcttgtttt gtcatttata aaatgagaat gataataata 265380
ccagcctcag gaaaatagga tgagagcaaa tatatgtgca aagctatttt agaccagtaa 265440
agtcattgtat aagtactacc ttttggtttt cccaagcttg ttgcagtttt ttcacgtctc 265500
gaaaataaaa aggacttaat gatacaagtt gaggtgtag tgagccctga ttgcagctgc 265560
tgcactccag cctgggcaac agcgagagac cttgtctcta aataagtaaa taaataaatt 265620
cattgccatt tttgtttgtg cattaccaat ttagaaagt atggaagtct gtagagccag 265680
ttttgaaaac tgagatattt gtttttagcag caaaaacaa ggtaaatttt tttcttccaa 265740
ttcttaatat tgcacatttt aagagtgtaa gatttctttc ttaaactcatg tactgaagtc 265800
tcacctagac ttctgttctt atattccttg ttactttttg ttttgctaca ctgagtctat 265860
cttattcaca ttgattgctt gatatcttca tgtaatgctt tttctcattt tcaactcccc 265920
ccaccacccc tcgcccccat attagtgtta ttgcatgagt tcacccatca gacacacaaa 265980
ccctcttttt caatagcagt ctgagtcagc aagcccggtc atttaactgc ctggtacttg 266040
ccttcagtta ctaggccaga acagctcttg ccaccaactc actgttactg ggaattttatt 266100

```

tattgagtgg catccattag acagtgctgt agctcacatg cctgtggctg cttcagttgg 266160
catctgtcat gccatttgag ccagattcca catggaaaat tatattccaa gacatttcag 266220
gtttacaaaa tgtttctcct tttccacttt tcctatgagt ttttgtgtat gattcttaca 266280
catctgttca gtcactattc ttttcttctc ctaatctcct agtggtgatt gaggaagata 266340
atacccctct ctgatgcaca cattgattag caaaatttag ggagaccttt attaaaggat 266400
ctttattaaa atcactttca tatttggttac cctattctta acacaaataa ttgttttggg 266460
ttagtggttca tacaatattt caaaagaatc catttgtaat cgtcaagggtt attcagtgct 266520
tcttttaaagg gcatttgtgt atgtattgta taaagccact aatagaaaat ctctgtctc 266580
tgtgtgtgta tgagagagag agagagagag agagagcatg agagagagag acagagacag 266640
agatgagaga ttgtgtggag aaatgagaaa aatccaaaat gtaaataaat tacattatat 266700
tttaaatact tatatataaa tatgtaattt cacaaacatg aacatttata catacataca 266760
cttattttata caaataaata tttatacata cacaaatgta tgctgtatat gcatttgcca 266820
gaaaaatata tttgtctttt aattggtagt tctataatta ataatgacat tacaatgacc 266880
atthttactgt ggtagtcaac agttttatatt tttatcagtg ataggataat caggaatttg 266940
agtgaaggaa tggatagcaa tttcatgaaa atthttgaagc agthtttctag tcatctctct 267000
taacaatttg gcaaacaagt tgcccagaga tgatatcata taatgacatt tcccagaaaa 267060
attgtgcagt gaaacatttc caaaaatatg gttgacaagc acagtgaagg attataaaat 267120
acatgttatt gaccagaaat tgtggctcct agtatgttac atcgtgctag aaaaagttgg 267180
aggcatattt ctgaaattct tggagcacct gtttcctaag catttcgcca ggatttaagc 267240
tgaaacaaat atgaaaacaa gattaattat attgtagaa aaatgttttc ttttcttgag 267300
ataaatgcaa caaaaactga actgtttgct gacgtattta atccaagaaa ctgactgtat 267360
tctacagatt gtcctttcac atgatgatat ttatggaaaa ctcatgcca ttatgtgaaa 267420
aaaatatatt gcagtattct ttaaaatgta gcatcattag cagagatttt tcttttctat 267480
agaagttatt ggcaaaaatg ttgctagtca ctattacagt aagttactgt ccctttactg 267540
aactataatt gacagatgta atcaagggat acttaagtat ggtgccaaact ttcgtactat 267600
atgcagcata cttatattgc catacaaaat agatcttttt tcctttgctg acaaaaatatt 267660
atgtgtgaaa agcattgacc cttaccata atattgttta agattaaagg caagaaaaat 267720
aactaactcc ttctggccca tacaactatc tgttttcaac tacctcaaat ttctaactg 267780
catcaggttc ttttactttt atccccactg tcatctctcc agcctggcca ccaggagtct 267840
ccatcactca tgactcccca gcctaggagg tatggattgc tgactccaag aatcccaaag 267900
aacttgacta agaccaaaatt tacctctccc cagacaactg actgcattct gctagtactt 267960
tgcaggctgt ttccctgctt cctctcctct gctctatttt ctagatggat ttttggtggc 268020
agctgttttt gtgaatatct aggacctgac ctgcctgggt ataactctgc atthttaggc 268080
aaatgccag tcattgcaaa ctgacatact tactgggtgg aggcagagta cctaaacagc 268140
taaagtgggt tgggtaaggg tcagctgaaa aacagtgtca gtgctgagga gacagtagga 268200
atgggtgggga ctctagcaaa cttttcagca cctgctccat ctaaagcagg gagctgcca 268260
cagatttagc tcattactac agtgcaggaa agaggccga gtgagaccag gcgcagtggc 268320
ttacgcctgt aatcccagca cttcgggagg ccgaggcggg tggattgcct gaggtcagta 268380
gttcaagacc agcctggcca atgtggtgaa acccatctc tacaaaaata caaaaattag 268440

```

ttgggcatga tggcagggtgc ctgtaatccc agctacttgg gagacctgga ggcggagggtt 268500
gcagtgaagct gagatcatgc cattgcaccc cagcctgggt gacagagcaa gactccatct 268560
caaaaaaaaa aaaaaaaaaa aaaaaaaggg ccaagtgttg ctaaacctc tagtttttaa 268620
gggaagccag aagtttggtt ttaaaaaatga gagagctcca gatagttttc agtgaaggct 268680
taattcttac ttttttatit cagaaaatgt tagatataat cagaagtaga taatagttga 268740
atgaactctc atctctcaac ttcttatcac ctcatgtgcc tcacttacct ctcccctgcc 268800
ctgatgattt tgaagtaagg ttcagacacc atattatttc acctataaat tatattacca 268860
tcatcacaca caccggaat gtcttcacaa tccagggact atttccattt cctcagttct 268920
aagaatgaaa attttgtttc tttagtttgt tgtaattgga attcaaactg gtgaatatgt 268980
ggtttggttg atatgtctta aattttattt taatccattc atttttccct ttatcttttg 269040
ctctttcttg caacttattt gttagattaa ttggtttgtc ctgtagagtc ttccacaagt 269100
atgaatttgg ctgattgcat ccgtgttatg ttgcttaata ctgttctcct gtctctctata 269160
tttctataaa agcgatgaag aggtttaatc agatacaggt tcagtttttc tgccaagaca 269220
gttttatagt tagtgacata gtcctttatt aggaatgcat agtgtctggt tgtctctttt 269280
tgtgatggtc attgcctgta ccccttaatt cataagtggc tctaactctt caaacatca 269340
tgtttttgca cactgccacc acacacacac acacacacac acacacacac acacacgtgt 269400
cttgggtcag atgcaatcca tgagtcacct gttggagaat tctgtgtatc aaagttcagg 269460
cttgagccct gcccatgtct ggaacatgtt gtgattcatt taaagtaact tactcccagt 269520
gagcccatcc tgacacaggg aaatgatctt gccagatcta ccatttagtt ttatattatc 269580
acatgcttac ttgcagtgtg tgcaaaaagg accatttcct tcatcagagg ttgggtggag 269640
aggatcctaa tgataagaat tatttgtttg gatcaaatct catgctgtcc tcccataggg 269700
caaatagatc aaatatgtaa tatgcatgta tttgtatctt ttgaggtaga aagtagacgt 269760
atctattggg gcctttgacg tgtatggcct ctacgaattt ttcatgatgg actttgtgga 269820
gaaatgactt tgcaaatcac acacacaatt gggacctatc ttccataatg ttgttatctt 269880
tacctgttgt ttgtgttcac tgggtagagc taagggaagt ggattgtggt gtttagagaa 269940
acaggattgc aggatgaaca aggggagtag gcaataccgt atactagtta gacttccagg 270000
gatgaatacc atcgatccaa atttctagct gtgtggcctt gggaaattta cttcatctct 270060
gtgtttcctt ctgtctgcag tgggtagtaa gatttcctta cctcagagag ggtggctgta 270120
agaattaagg gctcaatata tatttgccaa ctctgtgaat agtttaatcc ttgcatctgt 270180
tttaggcagc aaaggcttcg ttgttggtgt gtgtgtgtgt gttgtgtgtt gtgtgtgtgt 270240
gttgtgtgtg aagagtacat attcaatttt gaaaaataa attcccaata taaaaaatgg 270300
aatataggaa gttgataaaa atcaacatag ccctatttta tgctatttga agagtgtggc 270360
attgtaatag catgttccgt gctttttctt catggcttct ctggagaaat caggcacata 270420
cgttgcagtg ttgagccaaa catttcagtg tacggaacga acatctttag tcttggtctc 270480
acgtataaga gttaaatatt tacatggatt aaactgtacc tgaacattgt ttttgttgaa 270540
ttagagaagg ttagcataca tgcttctgtg tgaacatcc atagttttac ataatgtgt 270600
acagtattaa atgtagttca aagatggtat ctaccctgtt tgtacttctg tgctctctct 270660
ccagtctgtg gactcttatt actgcttctt ttgccttttt atccacctct taactcttag 270720
cctttttcca cataaagtca accagaaagt agtagctcat tggtttttag aacgtgtatt 270780

```



```

tggagatcgt tctgggtttt aaggtttatt ttcttattta gaataatctc ttctagtcag 270840
tagatcctgc atattttgaa atggagatgg gtggcacaca ctgagacaaa tacctgttgg 270900
gatgactgtc ccctattaat gctaaccata ggtcaggaca agaccaatag ataagagcaa 270960
gagcatggta ctcaactctaa gaaattctgt tcatctacag aaagccttag ggtgaaacaa 271020
agataagaat cctgggtcttc tatgatgagt cactgccact gactgtgtcc gttttgtttt 271080
caggggtgtat gccatgtaca attccgtaaa gggatcctgc tccgagcccc ttagcttcac 271140
caccacagc tgtgcacccg agtgtccctt cccgcctaag ctggcacaca ggagcaaaag 271200
ttcactaacc ctgcagtgga aggtgggtag ctcaaagcat caagaattgt ctactttta 271260
aaattaccag gtatgggtggc acgtgtttct agtcccagct acctgggagg ctgagggtgg 271320
gggatcgctt gaaccagga gtttcaaggc tgcagtgage catgatcaca ccactgcgct 271380
ccagcctggg caacagagaa agagtctcga gttaataata tgtagtcta tagccatttg 271440
aaatatTTTT tagcacgatt ccagttttgt gatatgtttt ctgcatagta agtatgtgca 271500
accaattgtt aaaaagtgtt cgtttctgta agagttgggc aaaggggtag gaggagggaa 271560
ctgcaaaatc cagctttagc tttttttttt tttttttttt tttgcagcag tattttctga 271620
atgtcttagg gtcataagca atatgtataa gtgatatagg tacttaaaat acctacatct 271680
tatcactttc taatagttta gttcatttca acaaacattt gaggacttta gcaaaaagct 271740
tttatcaaga aagattcaga gataaagtag ttttatggcc cttttggctt ctttcagtgg 271800
tgatactgaa atgtttaata tttaaaacaa cctagaacat ttagtgatct gaagtatgtt 271860
agtacttcat taagttccac taattgggcc atacatcggt caggattact aattatctaa 271920
gaaaaaaaga ctgaattata tattttcatg aaatacaatt cactggctaa aaatagctct 271980
taccaaagag agatcatatt gccccttcct caaggggcat cactggcttg ttaatcatag 272040
ttgtgtgttt gtaagaaaac cgtagattgt taccaatctc tgtagcactt atttctctac 272100
atcaatatTT tagaatataa tttaaaatgt aaaataaatg gaggtaagag ataaagattt 272160
atggtttgcg gggagaatac taatgtgtga aagaaagaaa atggctagga agatccatta 272220
ttagtgaaga aatatTTTat cttttcattt ctggcccgga gagtcagttt gatctaggga 272280
gctgatgaaa gcaattcaga gtcattgtta gcagcaaagc atgggcctct gtggatccct 272340
ctcaggtggg cagctgcatt ctcatagcca gtggccagca ttgagtgtgt tacttggaca 272400
aaagcaaagt ttaaactggc ttagtgtctg aactatttta ttttccttcc tggcttccag 272460
ggataatcca ggtcagtgat tccccacct ttccagagttt taacacccaa ctggcatcat 272520
catttaattc cttggagtat acatatccat ttaaaaaatg tgctctatat ttacacatac 272580
atatgtaaat atatctttgt aaggaaagaa ttaaaatcca ttttgtttgg aaaatataag 272640
aacttgtctt tagattacct gagggacccc ggggtcttat aaacctaaag ttgggaatca 272700
ctgatgcata ctctgcttaa aacctggatg aatttcaggt ctcaggcaga ccagcaactt 272760
caagaaagaa ttttcttatt aggaggaaaa tgtttcacat tttccttctc ctttctctca 272820
attgtaaatc agaaacatac tcttgttaca ttcagtcatg tacaaacttg aaagtctctg 272880
attcagttca gttttcgttt aaatgtcctt agaacagatt ccctcatcaa agtgcctcag 272940
gtggggcaca aggacaggga aacattctct ggctgccagt ctgtccttga atccacaaag 273000
atgctgaaag cactaaagat ctgacatctt tttgttcac agcagcagtt attacttgca 273060
caggagataa ggcaaaaacaa aaacctaaag cagtgtaccc accctcaagg aattaaggga 273120

```

ctagtaatgg gtaggatat catcaaagaa actaccaaag aacagtttgt tttatttttt 273180
 tggagtcttc atcttagaga tgggttctca tctaaaactt cgattttgtc ggttattttat 273240
 aactttaaat gcatcactat cctctcctcc aaattgagcc cgcaaaagcc taaaacaaca 273300
 gtttaggact tagagcactc acctgagatc tgagttttgg gactcagaga ttgtgtgact 273360
 caaaagagag aaggaaggga aggagcggga ctggccccct gatgttttat tactaaccat 273420
 aatagagcaa taacaactgt ttactgagtg cttcctataa aactgggtag tttagtaggt 273480
 gattcacata ttctcccaat tatttatcat acctatcctt ggaacatgaa attagtgtgt 273540
 gatattgata ttaaataagct agcgccagac cacatgcaac aaacagccga ggcaggattc 273600
 agatacatct cagggggaagc tgagctgcct tttgccaggg gcaaggtacc atgctgtttg 273660
 ctgggctctt gctctttcct agggaagagt cggccctggc atgtttttga agtgggagac 273720
 atgatccaac tcctcttcct ggttgcttcc cccaacttgt agttccactg tctctctaga 273780
 tctctctacc ctaatgctcc aagagacccc actgcggcat cacttgtagc tcttggaatc 273840
 ctgaaaagca ttcttttccc cagagttctt tacttccctt cccattgtta aaaaccact 273900
 ttctcagtga agcagatctc agcatgcttt ttaagagaaa agcaaatgat gaaacttctc 273960
 tttgttaaca tacgaagggc gaatagcctc tagtcgtctc tccagaggat cacatttttt 274020
 cccatttttt aaaaaagagg aaccttaatg tctactgatga ctttctaate ttaagtactt 274080
 ttaaaaaatt aaaaacctgt gtgtgggatg ttacaaaaag aaaggcttga ctgtgctcca 274140
 ccagacatcc agcagcacct gagtttctca gctgccttgt tctcactcta cgcttgaatt 274200
 caaagcccct cttcaaagtt ctatccccag aggaagtaag gtaccatgag ggtgtaaaaa 274260
 gggagagggtg gtgggtgggtg tagacagggt tggctatttg tggagtatga tttattcata 274320
 gtggggactc tctacagtgt aggtatgtca aagttagtgt atgatgatgg ttgaccaagg 274380
 aatgcaggga ccatcagctt tatccgcctg cggggagagc accggactgt ggtagacgct 274440
 gtatgtgagg cagggtggga gctgataagt tttgtctctg aacaactttc tttaatctca 274500
 tgttcctatt ttttttaggc accgattgac aatggttcaa aaatcaccaa ctacctttta 274560
 gagtgggatg aggttaagctt atttcatatt caccatcta aaacaccatt tcagaaacaa 274620
 aattgctgaa caaataccat tttattcttt gataagacat gctaaacaca gaagaaaggc 274680
 ttgctactag agaaatttaa atcaatagtt attgactatg gaaaacgaag ttagattgaa 274740
 gtagtattat gaattgtgta ttgaaatata tgtacctggc ttatttgcaa gcaactgctg 274800
 taaaagaaaa aaaaatgggg tcttatctat tttggatctc cagtgtctag ccagccaata 274860
 atttgtatta aaagttgact gctttgtcat cttgactgct tagatgcttt tgataaggta 274920
 aaacacactg ctgctcagaa agcataatth gcttttcgtt tttgaatgcc atgtgtgtac 274980
 cttgggtgctg cactgttgag tggccgctgt gagagcagag cagtgcatag aagtcacact 275040
 ctaccacagt gcgagtgcct tgtgggttag aacgtcctgt atcaggtgcc ctcttgctg 275100
 ttcatgtccc cagaggccct tggaaggtat ctacggtgga gtgtccttat tctcaaagcc 275160
 actgtgtgcc gactggtgga cccagtgcct ttctggctac acacagaatc tcagacagga 275220
 aacacttgac ctagaaggct ttcatthctg aaaagcaact gttggctggg cgtgatggct 275280
 cacacctgta atcccagcac tttgggaggc cgaggcgggc agatcacaag atcgagacca 275340
 tcttggttaa cacggtgaaa ctccatccct actaaagata cgaaaaaaaa aaaaaaaaaa 275400
 aaattagccg ggcatggtgg tgggcgcctg tagttccagc tactcgggag gctgaggcag 275460

gagaatggca tgaactcagg aggcagagct tacagtgagc cgagatcacg ctggagtgag 275520
 actccatctc aaaaaaaaaa aaaaagcaac tgtacttttt gtctctgtag atcttaattg 275580
 tatttattca tttgccccca ctttattctt tctctggttg agaaattggc taaggatttt 275640
 aagaataaga aatgtggaat atggggagaa atgcaagtta gcctttgtga cttaaatttg 275700
 gagggattga aagatttaga acttagactt aggcaaaaag tgacttggca agtgtggaaa 275760
 aatattttta ccaaacgtaa aatgaaaact ggatggaatt cccatggtga aattttgatg 275820
 cgaaagaggt ccgtcatcac tttctgcaga agcatatttt cccatctggg ttgcatctga 275880
 tcagctagag ttccaagtta ccaagaacaa ccctctattg ttcttaggat cttttcgaat 275940
 agcttgtaca tgcaggttgg tgaatctca gccttaaccc atgcattcta cagattaggt 276000
 ggatttcatt ttcaggtggg ttaattagaa agtgaaacca cctctccagc ccttagaggt 276060
 ttttatagtc agtcaggaat gctggaaagg aactcggatg acctgtgagc atataagta 276120
 gtcttcccat ctctccctct ttgtaaggac aggtgaccgt ttaatgaaag tcccgtttta 276180
 catgtggatt tcttgcactc atcgtatgtg ttttctcatg tctcagaggt ttatatcgag 276240
 atggagttca ccagtacaga aaaggcattt ttttttttca gatattctt tagggcactg 276300
 tgtgtgtatg tgcgtgcatg cacacactcg tgcgtgccta tgaatcctgt gttttttgct 276360
 gcttctctgc ccaggacat gagttcctaa gtaaggaagg ctaaaaaagt tgaatacgta 276420
 gctcagtgag aaacctccaa agaaaacttg ggtgctgcag gaattggtta tgggtggctca 276480
 gttgctggtc ccttccctta gaatttgaag tgagagtgtc ctggctgatg atgctgagag 276540
 gaaggatgcc acagcctccg ctgaagtggg acaggccacg tctgatgatc gttcatgttc 276600
 agcatgatcc attgcaggct agcagtcaaa aaatgtcaga tgactgggtt ttgccctcta 276660
 cctttctgct acttgatctc ctccaactt ttctctcac ttttcttaat tctctgcctt 276720
 ctttccactt tttctctccc acctcaaat tctgctggg atcacagctc tgttgagctt 276780
 tgctgaagat tccagggtta ttgactctca tccaccatgg atcttttgct aacacagaaa 276840
 tcctttttaca ttctgtgggt taagggtccac tttctagaca tctcctgccc cctcaattct 276900
 aaggaactcc ctgaccttg ggtgcaatga gcttctggc aggagaggat aattgaaaga 276960
 acaccaagat taggaaatat gggttctgtt ctgagtttta tgctgggcag cttgacctct 277020
 ctggctcctta gctttttcca tctgtgaaat ggcaaatagg ttagttcacc agcttgatg 277080
 catttacatt atttatgtc tcacaagaca gattatttag gattgtctct tctgacaaga 277140
 gaatatattg aatcattttc actgttggtt ggctgttca ttaattattt cagcatttat 277200
 ggagcatgtt cctcagtagt ctgcattgcg cattgtccta tgagagatct gtgacatagt 277260
 aaagataact gtgatagctg aaaaagcaaa cgtacgccta tctcttgggt gtgcttttaa 277320
 acagacacaa ataaagcaca cgttgccata tgcttctcaa attgttcggg ccagtagcgc 277380
 ttttgctttg tattataccc ctctcatttc ccatcccca taaagatgaa aaaacggtgc 277440
 tatcaggttt cctggcagtg agaattcaag cagtagtaac aagttcattc ctgcccattc 277500
 tgtcatttca gaagtgaagt ttctgacaga acagtctggc agtctgtgtt tctaaatgta 277560
 gagctgagtt gaggatcagc agcactcttg agagtggctc acttgggttg ggttttgggt 277620
 cccacattcc tatgctatac aggccttagc ttcaagaagg aaaagcaaat atacaaacag 277680
 gacagcagca tctggctctg aggatgtgtg aacacaagag gctctggcca tccctctgaa 277740
 tccttctgct ggtagtttct acagccaggt gcatctctct ggtaccagga ctgtttctag 277800

actccatctt aatagaagac agtgaggcag gagaatggga agtggatgtt ttgctggaat 277860
 caccctttcc ccacccttcc ccacccttcc cctctctaag ggccacagct ctcccctcct 277920
 ctctctttca aggatatatg ccccgaccac acacccaaaa acctgtctgc catccagggg 277980
 gctgaagaaa caaactaaga tggcagaaaag tttttgaggt gcacagagac acaaatcact 278040
 gcctgagagc gacaccgtgc tgctctgagt cctgaagaag gttgtgctca ggcatagcac 278100
 tcggctcctgt ctctgctctg gcacctggtc tgagaatcac gactttgagg tgagggtggc 278160
 tcacttccat acacgcaacc actaatgttc aggtgtcccc tacagcccca tattttttatt 278220
 accatataac agcatggatt agagttccag aatacttcag tcttttgtgt ttgtaatcac 278280
 ctttgcaatg aaatgattag agtaaaattht tgaaagtgtt ggtaaaacga gaagacagag 278340
 catcaagccc agctttcaag cctcttaaag actttcctgg aaaaagagca gcagccttta 278400
 tttctgctga gattaggaat gctgtgctga gttgacctc ttgggaagat ctaccttcac 278460
 cagcagctaa ctatatgtg ggctctgaag tacaacggca tgtggagccc taatggggag 278520
 cagaaaacag aaacgcatta cagtacagg gaaatctgat acaccttcta tctctcttta 278580
 aattcactgt cattaattht acatcactgt agcatagaat tcacttgga attactcatg 278640
 aatagtthta tactagggtt aactgcctgt tatttctcca ttaataacta actagacaac 278700
 actthtaattht ttaaatcaat acaagaagtht actatgacta tgaaatggta attagcaact 278760
 aaaaatggaa tttacagcca ggccacagtga ctacgcctg tcctcctagc acttcgggag 278820
 gccaaaggtg gtggattgcc tgagctcagg agttcgagac cagcctcggc aacacggtga 278880
 aaccccatct ctactaaaat aaaaaatatt agccgggcat ggtggtgagt gcctgtagtc 278940
 ccagctactc aggaggctga ggccaggagac ttgctagaac ccgtgaagca gaggatgcag 279000
 tgagctgaga ttgcaccact gcactccagc ctgggcgaca gagcgagact cctctgtctc 279060
 tgggggaaaa agaaaaagga atttacagtht gtcgttggtt tttcagctgt ggccttcagt 279120
 ttcggtthttht acctgaaaca ggtcagthttht tattgagaag ctgtggccat tcctggccaa 279180
 gttcccttgt ggtgactcat gagthtthttagt gtttagagcc aaccgacccc acatthttht 279240
 agatthtthtag ccactthtct tcttcaggag acaccccatt ataagcagaa acacagaagg 279300
 tcattgtcaa gthtthttht cttgaacact agatgagtca catcacattg tcatttcaca 279360
 gtgttcctgt ccccggtgtt tacactthta tctacaagca cttgtcattc tgatgggtag 279420
 cagaaagcag atcagaagct cctaaaaagg agcttgthta acagcacaac aatggctaga 279480
 tgctagattht ttcaaggtat aggtthttht cacaatggag agtcagttag atggggaaga 279540
 cggacatcat acttgagata ctgtaccac tcgccatgcc cacgctaatt cgthttagctg 279600
 cccgtctthta tggcaccctt ctaagctaca ttgactctgt attgctthtct tctthtthttht 279660
 ttgaaatgga gthtthtactct tgttgcccag gctgtgcaat ggccgagtc cagctcactg 279720
 caacatctgt ctcccaggtht cgagtgattc tcttgcatca actgctgaga ttacagttgc 279780
 ctgccaccac acccggtctaa tthtthtatatt tttggtagag atggggttht accatgttgt 279840
 ccaggctggt ctcgaaactc tgaccacatg taatctaccc agctcggtct cccaaattgc 279900
 tgggagtaca ggatgaacc atcacacca gccctgcttc tcttcttgat gacatatcac 279960
 tatctggtgg aggtgggagt tthtctctag aaggagctgt gggagaagga ttgaggatat 280020
 agagggtctc aggttaggga aggtctthta ggaaaagaaa aaactaggaa cctctgggtt 280080
 gcgtcattca taaatgtctg cccagtctgt tthtaagtht ctaaacagat cgtgatctgg 280140

ccttattttt gaaaacttga gtaaaggggt gaatttaatg ggcaaataag aactttttat 280200
tttagaaaaa attagttcct tcaagaaagt atttatgcaa acttggcttg ttttaagttc 280260
tgccttaaga tattgtttta ttttgagcca tacagaacgc taactgggtgc tgctgcaact 280320
atcagaacaa atacaagtct cctaagatct tgctatgaat atgtggcatg gattcatatt 280380
gatgatacat atcaataata tgatgtttat ctgaagaaaa ctgaattaat catctcagct 280440
ttgtctctct cttcatccat tttgtgctgc tgtaacagaa tacctgaaac tggttacttt 280500
ataaagaaca gagatttatt tcttacagtt ctggaggctg ggaagttcaa ggtcaaggac 280560
ttgtatctgg caagggcctt cttgctgtgt cctccacag tagaagacag gagggcaaga 280620
cagcacaagc atgagagagg aaaggggacc aaacttgccc ttttatcagg aaccactcc 280680
tgtgataaca aactcacccc tgtcatgatg gcattcgtga ggataggccc cttgcgacct 280740
aatcaccttt tcaaggggaa aaaaaaaaaa aaaaaaaaaa agaccacctc tcaatgtgct 280800
gcattgggga ttaattttct ttctttcttt ctttctttct ttctttcttt ctttctttct 280860
ttctttcttt ctttctttct ttctttcttt ctttctttct ttctttcttt ctttctttct 280920
ttctttcttt ctttctttct ttctttcttt ttttctttct ttctttcttt ttttctttct 280980
ctttctttct ttctctctct ttctctctct ttctctttct ttctctctct tttctctctt 281040
tctttctttc tttctttttt tcttttcttt tcttttttct ttctttcttt ctttctctct 281100
ctttctttct ctctctttct ctctttcttt ctttctttct ttctttcttt ctttctttct 281160
ttctttcttt tcttttcttt ctttctttct ttctttcttt ctttcttttt ctttttcttt 281220
tctttctctc tctttctttc tctctctttc tctctttctt tctttctttc ttttttcttt 281280
ttcttttttc tttctttctt tctttctctc tctttctttc tctctctttc tctctttctt 281340
tctttctttc tttctttctt tctttctttc tttctttctt tctttctttc tttctttctt 281400
tctttctttt ttttttgagg cggagtctcg ccgtgtcacc caggctggag tgtagcggcg 281460
cgatcttggc tcgttgcaaa ctccgcctcc caggttcatt ccattccagc ctcccagata 281520
gctgggacta taggtgcccc ccaccacgcc tggttaattt tttgtatttt tagtagagac 281580
ggggtttcac cgtgttagcc aggatggtct tgatctcttg acctcatggt ccaccgcct 281640
tggcctccca aagtgtctggg attacaggtg tgagccatgg cgcctggccg gggattaatt 281700
ttctaacaca tgaacatggg ggacacattc aaaccataac agtttctagt tcctcatggt 281760
accccaagca ggtaatttaa caccttagcc tcggcctttc cactggaaaa acagggtcag 281820
ttatctcacg ggtgtgttaa gattgaatga gataagttgg gcaatagcca agtcagtgt 281880
ttgattgttc catattgttg gcataagttt acctaagcag atgctaagat ctgaggtagg 281940
gaaagtcaac aattacaacg atcatgtata agaaatatga cattcttctg tcaggaactt 282000
aaacaagagc cctgaggttt atgtcacttg tttgaactaa ataaaaagt atgttagtgc 282060
tatcatggat gttaatttgc tattagccta acttctggac atgacatgca gggcacagaa 282120
taaccagaaa aagcgctttg tgggaatgtg actactggag ttcccaaaaa ctttctcac 282180
ttgtgaccca gctagcccaa aaggaagttc acatctggat atatagaata accagaaaaa 282240
gagctttgtg ggaatgtgac tactggagtt cccaaaaaac cttccttact catgactcag 282300
cccaaaagga agttcacatc tggtttcctt ggtgactaat gagccaacac agctgtaaaa 282360
cacagtggac taagaatgaa acaaatgcca cagaaatcag gggaagcata attaaaagtt 282420
gagagaggag aaaaggccag cagcaggtag agcccatgcc cctggggagc cattagcagg 282480

tcaagtcagg ccaggccagg caggcccagc agtcctgtca cagaaacctc ctgaagcagg 282540
 tgaccagccc cagattgcag cttcttggac atctgtatca ttcaggagga gccttgttta 282600
 gggattgagt tggccccgta gaagatactc agtaagagat taattagtca gactcctgct 282660
 tagctcacgt gttgaatagt tcatatggat gatcgctcat aatccttctg agtaaacttg 282720
 caccttttct ggtagataa caactgttct gagaatgaag gaaatggagc agccacaagc 282780
 acagtaattt actgggtccc gcagcatgga tgaagagagc tccctgagaa tttgcttgac 282840
 tccagctctc taagggtgcca cactgccttt ggggtgcatgg tgtgttggtt ggttccgtaa 282900
 caaaaagcag gaaggtcagc tttcactccc ctgcccaggc ccacatgcac tttggtcatt 282960
 cttggcaact gtggggattg gaaagtgggtg ttctaggttc attttggctc tgtccatcaa 283020
 agaccatctt tcacatgagt gccactgcc acgtcttacg gttgtttcag aaagccaaga 283080
 gaattgctgc cctactatag ctgctattga aggaaactaa gccaggaagg attgaataac 283140
 tcagaggcat ctttaggtgc cacttcgtgg tcaaaaggag cccctctttt tagggacctc 283200
 agtctcagac atccacacac ctgcagcaga ttctctgect tctcttgttt accctttctc 283260
 gcatgtgtac atgatgaggt tgtgtgtttg ggaagcaaac gatgtggagc ttcttgcetga 283320
 ggctaaatta taaatctcat cttgtttcct gacgcctagt ttgtcaactc acccttgttg 283380
 tggctcctca tggccagctg gaagaagact gccttgggcc ttcgctaggt gaatggacca 283440
 accccatcca tccctcggtt catttgtaaa tcgactgac agcctgttct gaaattaagc 283500
 cctcggtccc cttcttcccc cttccctgtg acagtcttaa cacatcaatc ctctcaaagc 283560
 atttgacaac agaggaaact caatatttgg agaaatatat aggaaaattt tctttgtgtg 283620
 tttgcttaaa ccagaagact tagtgatcat ctttggtgtt ttcaggcagc caagcctccc 283680
 ctcttacaga aaaactagtg tgctgaggga taaaatgcct ccctgtttat ttggtaacat 283740
 ggaaccacaa atcatccac ccacttttct tacctttgaa acatcctctg tgccagagtg 283800
 tgcaataaaa tgaaagaggc atccctgggg gaagagtggg gtttggcacg agaaacttct 283860
 gagtccaccc aaatgtggag tgtccctccc tccctgtagg gagcctctta tatatggtta 283920
 tgctgaacac atacgtgctc ttttatttct gaagccaaca tttatctttg atgttgccct 283980
 ggatcagccg gtgctggaac aacttctaaa tatagacact ctagcagact aaatcttaga 284040
 gcctggccgt agttcagttg gccagtgcaa ctttattttt catgtattgt tgccatttct 284100
 gacaggttga accatactat taacagagaa tggccagccc agaatccttc agcccatgtc 284160
 tggattcaga agccatgggc cacaagcaca tgacaactga taaccaaatt catggaactt 284220
 acttagcaga cagttaccaa acctggtgta agcagctcag gaaggcagca ggcattggctg 284280
 tggaagaatc tgaaagagac tgggcgcagt agttcacgcc tgtaatccca acactttggg 284340
 aggccgaggc gggagtttga gaccagcccg accaactagg tgaaaccctg tctctactaa 284400
 aaatacaaaa attaatcagg catggtggcg cacacctgta attccagctg cttgggaggc 284460
 tgaggcagga gaatcacttg aacctgggag gtggaggttg cagtgaactg agatcatgcc 284520
 tctgcactcc agcctgggag acagagttag actctgactc aaaaaaaaaa aagaaaatct 284580
 gaaagagaag gactacagtg gcaagatacc acatatcaag aaaacatcag gaggagtaag 284640
 tcacaagacc aaaggagagaa agttcacctg gaattccatc atccttgtgt tggccattct 284700
 taatcttgtg ccaggaatga agtagttatg aaaaggaaca ggaagtatcg tttccaatct 284760
 attaatttaa aagcagttga aaatatcagc caacttcacg tgtagtgcc agtagtggtg 284820

gaaataccca cttctagtgt tgtttgtgcc agggtaatta gaaatgttag ccagagcagc 284880
cacagccccc acagtctcca gaattacact ggcaggaaaa cactgtagcc tgaattaatt 284940
gggatgtgtg tgagttacat gtatagaatc ggccgtggct tgtgttcctt aatgggaaac 285000
cagcccatTT caaggattca tcttcccag tactgagaaa aactttataa ggatactaag 285060
ttagtaaaga agaaaaatta acttgaaaaa gttcttttgt tgttgttttc agtctttcaa 285120
ctacacactt ttacaaatta acacaacata tatattttta aacatacttt aaaaattagt 285180
tgcatTTTT gaacttaata aaatactttt tatatactta gctgccagtt ttcaagtagg 285240
tagaccatct gtaaatttgt ttcttcaactg gaactcttat attgtttgta aacagatacc 285300
cagagaggTg gaaaagtggT tacatgagga agtactttga aatgttattt tatttgttga 285360
gtcctgtggT tttaggctat gtcataccta aactgtcccc aaaagaccat tgcgtgtctg 285420
aatTTaaaaa tctcagccag gcacgttggc tcacacgtgt aatcccagca ctttgggagg 285480
cggaggcggg tggatcacga ggtcaggaga tcgagaccat cctggctaac acagtgaac 285540
cccgtctcta ctaaaactac aaaaaattag ccgggtgtgg tggTgggcac ctgtagtccc 285600
agctactcag gagactgagg caggagaatg gcgtgaacct gggaggcgga gcttgcagtg 285660
agcagagatc gcaccactga actccagcct gggcgacaga gcgagactcc atctcaagaa 285720
aagaaaaatc tccaagagt tctctacatt tgggatagca ttattaaaag tcttatttca 285780
atctaaaatg tgattctgta agatgaagta actgcatagc cgTtgattgg caattttggt 285840
tgatctttat catctaggag tctgattcta tttttagctt atacaaaaat aactttttaa 285900
attattcaga gaggtcctta ctttggtgga tggctttgaa agtaaaagca tgtactaagt 285960
gcatgtagaa aataggaccc attatgtgtt acacatttat tttgttttgt tttgtttttg 286020
tttcgttttg aggcagggtc ttgctctgtt gcccagactg gaatgcagtg gcacagtctc 286080
tgccTcccgg gtgcaagcaa ttctctgtc tcagcctccc gagtagctgg gattacaggc 286140
atgtgccacc acaccagct aatttttata cttttatttt atttatttat atttatttat 286200
ttatttatag agacgggatt tcaactgtgtt ggccaggctg gtctcaaact cctgacctca 286260
ggTgatctgc ccacctggc ctcccaaagg gccaggatta caggcatgag ccaccgtgcc 286320
cagccagaca tttatttttg tatgctagca tgcacattac attccccac ctctggctg 286380
tttacagtgt aggaggaatt tataaaagt tgcagaaatt cagaggggta aaacttcatg 286440
ctataaacat atatagacat caaaatagat gagtgtataa ttgcataaca aattacccca 286500
aaagttagag gcttcaaaca atcactttct tatgcttgtg gattctgggt tagggatttg 286560
gacagggcac tggggagtgg catctcatgc tctgtcatat ctggagtTtc aacagggggt 286620
gctcattggc tggggactgg aatcttctgg cagtatcttc actcacaagt ctaacatcag 286680
tgctcacttt ggactggacc tatctggggc tcttcacatg gcctggggct cccacacagt 286740
gtggcagcat cagggtagtc agaatccaaa atcgggtgtc ccagcaaaag tcagaagctg 286800
ttaacacctt tccagaccca gccttggett catttccact ccagcctttt ggttacaaga 286860
gagtcacaag accaccaca ttcaagggaaggaggacgtag actttgtttc tcaatggata 286920
gggaatcgga gaatttttg acaggtttaa agtaaccact tgtgatataa ggcttcttgt 286980
ctccttttg tcttgagaaa ccattaacaa attttttttt ctttatcttt gcataacaca 287040
tacagtgttt taggtaccat accctaagac tgttagatat aaggtcatat acttttaaag 287100
tacaacataa ctctttttgc ctatccctga ttcttttctg agtattctgg agatgggtag 287160

```

aggagggaaa aatgtgtacc cagaaatgca gtgacaggat gggcctcata cctcataacc 287220
agtgtacttc agccagccgg tgagacgtgc ctgagtggtc ctcaaatacc aatcttctca 287280
gttagcaaat ggaagagatc attctgtctg ctgccttagt gataagggca gggaacccaa 287340
acagactggt tatctccagt taatgtctct gcctcagttg tacttgaaaa gcaggatcgt 287400
gtgttctgtt ccctcaggtg actcacgata gtgcagcaaa gtgttttagt tttagttttt 287460
ttttttttca gggaatataa atgtatttaa aatctttaac agttttcatc ttttaactac 287520
aaatttgaaa gaaatggaaa aatattaaag taggtagtaa ggaggtaaaa gaaaaataa 287580
agatgttcct taaaatattt aaactacttt ctatttataa tttatcccca aatttcattt 287640
tagagaatgg cagagctgga catggtaact cacacctgtg atcccagcac tttggggaag 287700
cctaggttgg gtggaaggac agcttgaggc caggggttcg agatcagcct gggcaacata 287760
gaccccatct gtaccaaaaa gaaaaaaatg gaaaatttat ccaggtgtgg tgggtgtatgc 287820
cggtaatcct agctactcag gaggtgaga caggagaatc ccttgaacce agcagtttga 287880
ggctacagtg agctatggtc tgtttgcacc actgcactct agcctgaaca acagagtaag 287940
ataccttgtc tctcaaaaaa aaaaaaaaaa aaaaaaatat ttgggaacaa tatttctccc 288000
ttgtggggga aaaagaaaaa gtctttgtct ctgagattat gatcgtatct tggaaatgtt 288060
ttcaggggtt gatcattctc tgctgtgtag ccacatagtg ctttttatat actctccaag 288120
ctcccttctc ttgccctgtt ttttctgtga ttggggcctt tcatagtctg gcaaaaagtt 288180
ggaggttatt gccattcttc agaatttagc aggacctgt aggaacaaga acaacatcta 288240
gactcccatt attattagga cttgaaacca aaaatgtgtg acccttctaa aaagttagtg 288300
aggatgagga tgaatcaaag cggaggcaga tgctgataga gtatgtagta ttctaagcgt 288360
tattaggctg ggtcttcccc caaaaggtga tgacttcctt tagtatgtca atctcagaat 288420
gaaagaggca cttgcccagg ttcagataaa taaggtgtcc agtttagagg gcaggtgaac 288480
tctgtggtaa gagtatggta tcaggggaca gggctgcata aggcacactg gatggaacag 288540
agtaagacga tccagtggta tctagaatgt gaataatata caatgtattt ttgttcgatg 288600
attagaaagg agaaagaggc aaagctgcga tcccaggctt gggaaaggct gatctgatgc 288660
atgctgtgaa tatgagtcga cttactgacg agccaagtct ttcctggaga gcatttttga 288720
ccagaagtgg tagacaaaca ccctgggtccc tggttggaaa acattacccc aggttgatga 288780
attggtgctc ttaggctagg tctgggtgtg gaatgaagat agataagcaa caactgtgaa 288840
ttaggttgag tgcaagagg aacactcagc ttgggaaagg aaacaaacca cgtttgcaat 288900
gcgtcctcct gcgccagatt gagcacctcg aggttttatct gcacacagtt ggtttgtact 288960
ccaagatttc ttcacattct agtaaagatt aaccttgccc ttgaatgaac ttgggctgag 289020
ctgcagaaac aagcatttgg gcatgcccag gattgcaaaa tggaaacaag ccagtgaacc 289080
ctgaaaatct gccctttttt ggctcacaga cactgacagt agaaagttag gctggaactg 289140
gctggggtta tattggttcg tgtccagtga ggtcagtagc ccagtggcta ggtctgttcc 289200
agaatgacca atggtgttcc ctctgaccag tttctctaata tcaggcgaag tatcttttct 289260
atccccacc aagaacaaga accccagctc caccaattct gactgcttcc atgctgcgaa 289320
cctgaccac caacgcacag agaagtggag tgcagctagg aatctcttcc ctcagccctt 289380
tctgcagac cagctgactt gcaggccctg gcagccccac tgaaagctct tactctctc 289440
tgtgtgacat accacaagtg gcctagcagc cgtagctggc caggattagg cctaggtcat 289500

```



```

ggctgtccct gctgcctgtg ttgaccagc tcattgatga caacagatct gaaaagtgtc 289560
aggatgttac ccatttctat tacagccatg ttttagtagg gaactttgaa caaggctgaa 289620
tttaaagtat taaaaactaa gtttccaaag ttaagtcagt gtatctcagt aatcctgtgt 289680
agtctaaatt agatttttta aaggagagaa ggtgccatag gttataatct ctcaaaatct 289740
ctgggagcta aacagcctat aaaatatgaa agttgtcatt taccatctct aaaactccac 289800
tggcagtaat ggtttggatg tatttaactt ctgataaaca atgataaaca ttcactttat 289860
cactcctgtc agttcgtgtg aatctttcag tcctctaaag cattagctct tttctttttt 289920
aactccattt ctgtcaacaa gaacaggaaa atattttgtt tataaatgct atttgcaacc 289980
tgggaccggt cttgttttat gaacagattc tccaaatctt ctatcccttt gaacacggac 290040
ttactctact ctcatgctta agtccagag ccacccgaga gcctgatgca gtagacagac 290100
cagcatgctg gcatcggatc actggagcca gtggccttct ccagttcact tgtaaacttc 290160
tcagctgcag atcacttttg tactgcagtg acttgtgaac attaatTTTT ttctttccag 290220
ataatgcatt ttactgtatt ttattttatt ttagagacag aatcttgctg ttgccagac 290280
tgagtgacag tggcgtgatc tcgactcatt gcaacctctg cctcctgggt tcaagtgatt 290340
ctcctgcctc agcctcccaa gtagctggaa ttacaggtgt ctaccaccac gcccgctaa 290400
tgtctttaat agagacgggg tttttagtag agatgggggt tcaccatgtt ggccaggctg 290460
gtttcaaact cctgacctca agtgatccac ccacctcggc ctcccaaagt gcgggattac 290520
aggcgtgagc caccgcacct ggctgagata tgcctcttat attaaacttc atgttataca 290580
tgaatatgtt cttttattca aaacttctct catgtctgaa atactttaac ctgctttccc 290640
ttgtttttgt tttattctca atgacttcta aaaattcatc aataagcctt aattctttaa 290700
ctgtcaaata tttctattct tacctctaca gactctacag acgatgcttc caaaacttaa 290760
ttccaagggt ttaacaactc tggatctttc taggtgtccc tatgtttatg cacatagtag 290820
tacatcctgg aagtgttat gatagaaaat ttggcatgct ttgtctatat gggttggagt 290880
ttatttagcg gttgttcctg attctaacaa ttgttctga ctccaagatt tcttttttgt 290940
ttgtttgttt ttgagatgga gtcttgccgt gttgccagg ctgtagtgca ctggcgccat 291000
ctcagctcac tgcaacctct gcctcctggg ttccaacgat tctcctgcct cagcctccca 291060
agtagctggg attacgggcg cacatcacca tgctgggcta atttttgtgt ttttagtaga 291120
gatgggggtt caccatgttg gccaggettg tctcgaactc ctgacctcgt gatatgcca 291180
cctcagcctc ccaaagtgtc gggattacag gcgtgagcca ctgcacctgg ccagatttct 291240
tcagcttgct tattactcct acttcacatt tacttatatt actccctcac atttttactt 291300
ttttcacaag tagaattttt taaaatgtta gcaatatagg aaaatgtctt gaaggtcaca 291360
cagtgtccct tctcctaatt ctttagtgag cctgagtgtc ctggctctct taaaattcat 291420
ttctgccctt tgaactcccc caactctttt tctcatttga gccacagtct ggtttctact 291480
gtattaaagc aaattaacct agtaagaaac agactgactt ttttttactg gctacagttc 291540
taagcacaag taaaggggaa aggagaccaa ataaagaaat aggaaaaatg aggcattgaa 291600
ggggagccaa catgggggtt ggaagagacg agagcttccg ccatggcagg atgtgccttt 291660
cttgcaactgt ttactctgag ttcagaaata gaggaggaaa gaaggtagat catgccacag 291720
cctgaaatgg atacgacaca taccagggtc cccatagagt gtaatcggac gctgagtgt 291780
attatgcaag tgtgtgcata tgaataaatc atcttctca acctcaacac tcaaggttga 291840

```

```

agtaagcata agggcgtgac atgccagcca catagtgagt tcactcaaga agcacctgag 291900
aaatgtcagg ttttactcac tgcactcccc caactcggcc gccaaagttgc atctgaatgc 291960
accttgaacc cttgataaaa tgaactttca atcttaaaga ctgttagatc ttccactctt 292020
ttccatgggtg aaaggtgcta cctggctcga ggaggtgggt gggacagggg ttcatTTtag 292080
gaggatgaat gtgggtgtgt tgtttttatt gtgttcaccg tagtgacttt caagctagtg 292140
gtgtgttcat tttattttta attaaaacat cacctggaat gtgttttagt ggtatttgaa 292200
ggcctgctga acaaatgtaa caaaattaca taaatttggt tatgtaaaac atgtggttgc 292260
tttgtttttt gtaaaaataaa tagagaactt ccaacagatt gttcaaggcc ctgggcctat 292320
ccagttagaa tgtaagatc cattcaatgt tagcatatgg ttttcttttg catgaacatg 292380
gataagatag taagataatg ggggttataa caactgctg ataagagtgt tacatgcctc 292440
tgagtatggc atagggcagt taggtttttt tcttacttgt tgggcctgtt atgagaccct 292500
actaaagtgt tttatttgta cttcaaggaa tttgaagtat catgtaaggc taggaaggca 292560
ttcaaaatac atttttagcc tgacaagaaa cttagagtga ctgtaatata catagattaa 292620
ttcaaccagt gttccaagta cttatcattc acttccactc tgcaagcatt gattgagctc 292680
tcagtttgtc caaagcactg ttacgagcaa agtagacatg gacaaaatga ttcaaaggtt 292740
cgtgaccagt atcagcgatc agtgaagaaa caactcacca tcactagaat gtactcgtga 292800
aggatttggg gccactgca tggcaggaga gatgcagctg gagagggcct tgtatggcac 292860
actcagctgc agagatgggt ctttaggtgc tcagaagtta ctgggaaagg ctgtgtattt 292920
tcagagcctg tgaccctct gtggatgcag tcagattcct ggttgatcag gctgggcatt 292980
ttcggccaat ccaagtaagg aagaggatct tggaaattgt gatcgttaac tggagcatcg 293040
tcttatgcct gaaaggacct tttttaatct tgtaaacc aaataaaatc actttagata 293100
taccacaggt gtagtaaatt acctgtctca attacagaat tttctgtagt gcctttatgt 293160
taaagatgag atttcatcct agagtgtttt atctgttaca tgggcacttc cctataagct 293220
tctattgttt ttgttcattc aaactaggaa attaaacatt tattcaagat gttcaagatg 293280
ctctttcatt tatttaggat tatctgtttt tttttttttt aagtatatgc attgtttcat 293340
tgtttacttt tagggaaaaa gaaacagtgg tttcagacag tgcttcttcg ggagccagaa 293400
gcaactgcaag ttgacaaaagc tttgtccggc aatgggggtac acattcaggc tggccgctcg 293460
aaacgacatt ggcaccaggt atgatatttc cttgtcctct tgcccttcag cctttggatg 293520
gtgaccttga gccttctttt gcatcactgg aaggcgtgag gaagcctgct gcctccacac 293580
taaatacaact ggaggttttc caagatggag tcctaatacag aggagagaag gcctccttca 293640
agctggtgaa tgccactatg gcctctgcag tcttgcaagc tgtatggcga aggccccact 293700
agggtctctt aagaaccaag gtgaaggtag cagtacagat tttgaaagga attcctcttg 293760
gagctttatt tttttagata acatgccttt ttctttttatc acttttagcga gctcttgatt 293820
caattgccct ttttcaatta cgtgagtgtc tcttgggtaca aagaaagaga tgctgggctg 293880
gccattgttg tcaagcccag ggcagatata gaattggaga aaacctggac tgtcttggag 293940
gccccgcag gcctgtagcc tgtatgagaa aggcaagaat ggggtgtactg taaggtatca 294000
attgattaaa gaggctttga aaaggctaca tttcaattgc acttgcgggg taactcttga 294060
ttaagggaaa aatctttttc tttcattcac tgcttgttga aatcttttta aaggctttgc 294120
acatcagtgg tccccaacct tctttccagc gtaaagaacc tctttttaac atcacaaagt 294180

```

```

tttacagacc tgcctcctcc accatggtag ccattatagt tttagagttc cctggttgca 294240
aaagtcatac cgataaaaag cctatatggt tcaagaattt ttaaataaat tggaagcatc 294300
caccaacttt caaaaaacag cactgtatat attggtaaaa cattatttca tcaacaaata 294360
tttgttgctc atattgattt gaaggcctct tgacctatac cttagatagac attgcactgt 294420
gctatgcctt ctgtccagtg cttttgaggg ggaaaatgaa ttcttaagta ccattgtcct 294480
tcagtttcca caggggattg gtttcaggac tttccccacc tccctgccat ggataccaaa 294540
atctatggat gccccagtcc ctgatataaa atggcttagt ctttgcatat aacctgcaca 294600
catccttccc tccttaaaatc ttctttaact tgcttgtaat atccaatata atgccacac 294660
atcacttcat tcatgtggac tcaagatgcg gaaccaagg atacagaagg ccagctgtat 294720
attgtcttgt gacttgatgt gtgtgtctag tagaagatca tgggggtggg ggatggggaa 294780
gctgaagggt gttataggga atatcacaca cagcatectt gcctggcttt gcttactcta 294840
cctgctaggc tgagttgggt agtatgcagg ctgagccttc ctcttttaaa gtgccaagcc 294900
tgttcacatg cttctaactg cgtgcctcac tttctttctc tacagtgggt acagccaaga 294960
gggtggtatgc tacacattag gaaatatccc tcagatgcct tctgcaccaa ggctggttcg 295020
agctggtatc acatgggtca cgttgctagt gagtaagcca gaaggctgtt cacctgagga 295080
agtgatcacc tacaccttg aaattcagga ggatgaaaat gtgagtttta cagattttat 295140
acctctctgt attttgtaca agtcagtatt gttataacta cagggcacca tgaatgaga 295200
ttaactgcat aagttcaaaa ctaaactctt tttttttttt gagacggagt cccgctctgt 295260
cgcctaggct ggagtacagt ggcccaatct tggctcactg caatctccac ctcccaggtt 295320
cacaccattc tcctgcctca gcctccagag tagctgggac tataggcgtc caccaccatg 295380
cccagctaat tttttgtatt tttagtagag acagggtttc gctgtgttag ccaggatggt 295440
ctcgatctcc tgacctgta atctgcctc ctcggcctcc caaagtgtg ggattacagg 295500
catgagccac cacgcccagc ccaaaaccaa actcttaatt tctacctctg tcaccaccac 295560
taccaacagc agcctgttct tccccatctc tgtaaataac atttccattc ttgtagctgg 295620
ggaaacaaaa actcttgag tcctccttga cccatatata atcagacaga agatcctttt 295680
gaatcttcct tagaaattaa ccattttttt ttttatcatc tccacagcta ctaccctttt 295740
atgaggcgct tatctcacc ctggattgtt gcagtaacat gatattgtta ttggattata 295800
gcctcttaat attcctaact tcacttttac taggtacag cctgttctcc acgcaaagcc 295860
tgggtggaga acatgatctt gtaaaataca aatagatcat gtcagcgccc tgctcagaat 295920
ccttcctgtc tcagtgcctt cccctctttt tcacagtaaa atccctagag ctcttacagt 295980
gcccaccggg tcctgtgtga ttgggttctc cattactttc ctcgttcctt ccactgtagt 296040
cttatcagcc tctagtctgt tctttttttt gagatgaagt cttgctgtgt caccaggt 296100
ggagtgcagt ggcgcaatct tggtcactg caagctccac ctcccaggtt cacgccattc 296160
tcctcagctt cccgagtggc taggactaca ggcacctgcc accatgcctg gctaatttgt 296220
tttttttttt ttgtattttt agtagagatg ggatttcact gtgttagcca ggatggtctt 296280
gatctcctgg cctcgtgatc tccttagcct cccaaagtgt tgggattaca ccacgcccag 296340
ccagcctcta gtctgttctt taaacacacc aggtgtgctc tggcctcaag gcctttgcag 296400
ttctgccttc tggccagaat gtccttcgg atgtctttga ctcccttccc tcatcttctt 296460
caggctctatt ctcatatata atttctttgg acagtccttc tctgatcacc ctgtagaaca 296520

```

gcaccaccca atagaacttt ctgcaatgat ggaaatatatt tataatttgt gccatccagt 296580
atgggtggcac ttacacacat gcaactctcg agcacctgac ataaggcttg ttggcctata 296640
gtatggaggg tttgtttgct tgtttgtttt gagatggagt ttcgctcttg ttgcccaggc 296700
tggagtgcag tgggtgcaatc tcggctctcc acaacctctg cctcccaggt tcaagtgatt 296760
ctcctgcctc agcctcctga gtagctggga ttgcaggcac gcgccaccac gcctggctaa 296820
ttttgtattt ttagtagaga cgggatttct ccatgttggg cggactgggc tcgtactccc 296880
aacctcagat gatctgcccc ccttggcctc ccaaagcgtt gggattacag ttgtgagcca 296940
ccatgcccag tcagtactga gtttttaatt gtaataaact taaattcaaa gagccacata 297000
tggctgccat atttacctcc agcagctgta gaaagccctc actagtcca ccattgtatt 297060
ctcctaccta gctttagttt ttgtcatagc acttaacact acatgacata tgtagtagtt 297120
tttctgtatt gtcttctccc actggaatgt gaacttcttg tggcaaggcc ttttctgttc 297180
ttgagcagtg ctgaatcctt agagcctaga ggacaaccag acacagagaa ggtgctaagt 297240
agtattttga tgagtgaatg atagaatgat agagacagaa ctattgaatg agttccctga 297300
attcaacttt tagtgggatg tttgccctcc taaaggatta tgccctttcc catctaagct 297360
gtcctttctc ccttggccag aagagggcac tgtgtggtca ggaagctcag ccacacgtta 297420
ctgcatagca cattgcagct tgatagttag gacctcagta caaaggactt ttttcatgat 297480
aacattaaaa atgttaaatg tattttcaaa aagtacttaa ctcctttgtc acaataaatt 297540
tgaccagacc caggaaaaat tacagtgtga tggagataaa tttttattta aaactcaagt 297600
gctatccaca atactctggg cttctgattt ttctcttttg caaaagtagc taccagacct 297660
ctggccagtt gctgctgatg gtagagaaaag gcagtataaa aatcctatat tcaaaggtat 297720
ttaatgcca gaatttttga tactgatgtt tcttcttgge tttgcctttt caggataacc 297780
ttttccaccc aaaatacact ggagaggatt taacctgtac tgtgaaaaat ctcaaaagaa 297840
gcacacagta taaattcagg gtgagtcagt cattttgctg cctgaactgc ttaagaatga 297900
aactgttttc tatttcacca tttaccatgt cagattgtct ctacaggta aaaactgaag 297960
ttgacagcac tttacatttt gaaagtaaca ttataaaat gcacaccatg ctttatttat 298020
ttattttatt atttatttga gatcaagtct ctctctgtca ctcaggctag agtgcagtgg 298080
cacgatcttg gctccctgca acctctgcct cccgggttta agcaattctc ctgcctcagc 298140
ctcccagata gctgggacta taggggtgtg ccactaggcc tacgccacta ggctcggcta 298200
attttacttt ttatttttta tttttgtat ttttagttga gacaggagtt tcaccatgtt 298260
ggccaggctg gtctcaatat cctgacctca tgatccgcc acctcagcct cccaaagtgc 298320
tgggattaca ggcgtgagcc actgcacctg gcccatgctt taattttaaa accagtttgt 298380
gagcataaaa attgtcatca tgtgtgttaa taaatttgtt ttgcagcatg gccaggtgcc 298440
cttgcctggg aagaggcata ccagatgctg gagtgtacct gtcactcact tgcactccat 298500
acctttttct tttcaatcag acttctcttt gctcttcage ccattttatt ttctcactt 298560
gtttttaatt ttctcttcca tgaccaccc cctcctgacc tgagctgtct ttggtcatta 298620
acagccacca ttaacgttac tataggacta tgtgtagtag ccaaaaaagt gaatacagact 298680
ttataatcac taagagatca aaacagtatt ctgcagcacc atattttcta gtatgacaag 298740
tgtgtatttt ggaagatagg attgtcttct gattccacac gttcttctct aagtgggtga 298800
ccaaatgctg ttatttggca catagcaatc actcaataaa tagttgccat attatcaagt 298860

gcagtatgag actatttgaa ggaaatgata atttttaaca ttttttaaaa cccttattat 298920
tgatgctggc tatgagaaca tagctatact gctaacattt ctccacaagg tggcattgcc 298980
ctactcttta aaaagtgggg ctatttttat gtccccactc accccacatt ttcctttcac 299040
gaaacaatac gaatcagggtg atgacatact tgttttatta tgtctttttg aaagggtaaa 299100
aatatcttta aaaccacact tatggtttta ttttatTTTT atttttttat tttttgagac 299160
agggtttcgc tgttgttgcc caggctggag tgcaatggca tgatcttggc tcaccgcaac 299220
ctctgcctcc caggttcaag ggattctcct gcctcagcct cctgagtagc tgggattaca 299280
ggcatgcacc accatgcccg gctaattttg tgtttttagt agagacgagg tttctccatg 299340
ttggtcaggc tggctctcga ttcctgacct caggtcaccc acccacttcg gcctcccaaa 299400
gtgctgggat tacaggcatg agccaccatg ccagctgggt tttatTTTT attgttaata 299460
accaactata cagtaaatga tttataatat aaatactgtt aaatcgatac ttgagtttaa 299520
aagagaaaaa aatgtgtgtc tgtctgagtt tatgggtgcc ttcactcac catgttaaaa 299580
agtgaccatt aatttagtga tcctgataa ctaaagcatg ttaacgtttc cttggttgtg 299640
ttctagctga ctgcttctaa tacggaagga aaaagctgtc caagtgaagt tcttgtttgt 299700
acgacgagtc ctgacaggcc tggacctcct accagaccac ttgtcaaagg ccagttaca 299760
tctcatggct ttagtgtcaa atggggtatg ttttactgct gctgctgctg ctgctgtatt 299820
tttttttctt tggatatatt tttttaaaat gattaatttt agtagtgaca agccaaaaaa 299880
attatggatt accatttgca gaagttttct acattcggaa tatatgtgtg agaaacatcc 299940
tgagaagtct acaaattgga atggacagtt tcgttaaaat gtaatcataa aggacaatta 300000
aatttttagtg gaaattaaaa tggatgattt ttaagagtat ctcatttact ctatgatttt 300060
cctgtacata ccttttctcc tgtatTTTT aggcatgtag ttgaatgtag taatctctgt 300120
atgcatcggt cattcttcaa tagttcatcc ttaaaaaatt agcaatactt aagagaaaaa 300180
tttggtttat aaagtttaata ttgaaaataa atttcagaat ttaggtttat taagtaaact 300240
tcggcataca gaatgtttaa gttgcaatga attagggata gttttgtttt cattgggtgtt 300300
tgtttgggaa atttttagtat taaagttcat aaggagtttg aggttgtctg gtaaaaggat 300360
attgtgcctc acctctgctg tgtggattat ttcaataaaa tgaatacagt tagaaggttg 300420
ataattaata tgtaaaagtg ttatgcatat catttttact attgtcataa aaatattaac 300480
taataggcaa aaaaagtga aatcttcaat aaaattttac cttgcagcca agtaatataa 300540
ggagaattta aaacattatt acaccaacca ctgagacata ttaactgttt caagttacct 300600
aataattgtg agatagaatt attaggattt ctgtttcccc gaaagatgga tagaattcag 300660
agaaatgata aaaatttaga tgtgctttta gccagaccat agagcttttc tctcaaagaa 300720
cctcagaaaag ttctgtcaac actacagcta tatgctctaa tatttacctt tataattatt 300780
attgtaaaata tctactaaaa tatatataca ttaatggaaa tcagggtgaag gagaggggaa 300840
gtgaatatcc taaatttata tataagtaaa acttaagggt ttttagaaaa atctccgtta 300900
tgtctaagaa tatcgaggcg gcagacagac aattaaaagt acattcttta tagttttgca 300960
aaattaggct gcaaagaaaag tgttttctgc tcagaaagta aaattcctgc aggcacagag 301020
ttaggggtag tctatatacc caaggcacct agggtcttag taataagcca gaaccttctt 301080
tctcaggctg tctgctgggt cactggcact cattgatcca cacctctggt ttcataccac 301140
attcacctgg ggtgtaaagt ttgcttggtg ggaaactgtg ctagaatgga cgtattccat 301200

```

ttggatatatt tatttatatt gtcaataaat tttgtacttc tctttccgtt cctttccatc 301260
actcaaaaaga atctggtcgg ctgggcgcgg tggctcatgc ctgtaatccc agcactttgg 301320
gaggccgagg cgagtggatc acctgaggtc tggagttaa gaccagccta acgtggtgaa 301380
accccgctcta tactcaaaat acaaaaaaaaa ttagccaggc gtagtggtgg gtgcctgtaa 301440
tcccagctac tcgggaggct gaggcaggat actcacttga acccaggaag ggttgccgtg 301500
agccgagatg gagccattgc actccagcct aggcaacaga gcgagactca tctcagaggg 301560
ggaaaaaaaa aatctggtca ctgataaaat aagtgaataa aaaagaataa aataagaaat 301620
atgaacatat atcatctggt ataaaaatca tcaaatatat taaagagcac cttcaagtaa 301680
attcaacaac ttgatcagtt tgtaccgagt ttttggttca tatttcacta cacgaatggt 301740
ctttgacatt tctagattta agaactttga ataactgat agtattcaga gattcctggg 301800
ttttttgttt ttttttttc ttttttttaa acagtggagt tgggtgaaata aattattttg 301860
ccttttggtc aagtctagaa ttaagataat ataatggtat gagattttat gagtccctgat 301920
gatgtttacc gataaaaatc aatatccttt tattgctaata aagacatttg gttattttcc 301980
agatcctcct aaggacaatg gtggttcaga aatcctcaag tacttgctag agattactga 302040
tggaaggtct gaaggtgaac tttttggcaa ttgttttatt caaagccagt agcaagctct 302100
attttctgat atagtaaaca tctttatagt aatagcaagc aaccattaat tctaacgata 302160
gaactattat tacagtaaac aaactttaat cacatattgg ctgtttttct atttcaaaca 302220
cagcaccaga gatcagagtc tgcttgaaac ttacatttgt gttattttaa attttttctg 302280
tatctttttc attggtgttt tgtttggttg atcttttgc tttgtttctt tggtttggtt 302340
tgtttttggt ttgttttttg agacatggtc tctctctgtc acccaggctg gagggcagag 302400
gcacaaacat ggaccactgc agtctcaaac tcctgggctt aagtgattct tctgcctcag 302460
aagatgagga agaatacatt tttcatagt atgggggtct actatgttat ctaggctggt 302520
ctcaaactcc tggcctcaag caatcctccc acctctgcct cccaaagtgc tgggattata 302580
ggcatgaatc gccacactca gcttccatgt ctttttttca actagaattc ctaattaatt 302640
ggataaatatt agtgttttca tctcctaact tgccatacgt tttctggaaa ttcttataag 302700
cagccgggag cgggtggctca cattctaata ccagcatctt aggaggccga ggtggatgga 302760
tcacgacgtc aagagatcga gactatcctg gccagtgtgg tgaaaccccc gtctctacta 302820
aaaatacaaaa aattagccgg gcgtgggtggc ggggtgcctgt agtcccagct acttgggagg 302880
ctgaggcagg agaattgctt gaacccggga ggcggaagtt gcagttagcc gagattgcac 302940
cactgcactc cagcctggtg acagagttag actccatenn nnnnnnnnnn nnnnnnnnnn 303000
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa aaaaaaaaaa 303060
aaaaaaaaaa aaaaaaaaaa ttataagcaa aggaagtatc agaggcaatc agcaggaata 303120
gtgagggtgga gatagtgaag gagggtgttc agtaatctac aaattcccat gcatgaaata 303180
tatagtgttg tgggctagt acaagagtcg cacttttatg agaagtttag aaaatttctt 303240
tccgacttca ttgtcatttt acttcagatt atttatttat tactatttat actgggtgga 303300
ttaacatggg acaaatgtta gaaataaaat tccttagtgc ctttttaaaa attctgaggt 303360
tttctttcgt tcattagact ttaatagaga aaagtatagt cttcaaaact ttttaaatga 303420
catatcatct caccactgta ataattcctc taaccattag tttttttaaa aaaatggcac 303480
tgcttatgcc ttaagcagac aggattgata taacttttac aagccagcag tgctgatgtg 303540

```

```

tggttggcctt tttattctgt accatgagaa ccacctggaa ttttttttgt ttttaaactt 303600
attgggtcct attttaagct gaaaacatga gaattctttt gagatgagca cagctgttct 303660
aaacataaaa tcataattttg tgctaaaaac ctggtttaga actgcctggc atggtggctc 303720
acacctgtaa tcccagcact ttgggaggct gaggtgggtg gatcacgagg tcaggagttt 303780
gagaccaacc tggccgacat ggggaaaccc tgtctctact agaaaaaatg caaaaattag 303840
ctgggtgtgg tggcatgcgc ctgtaattcc agttcctcga gaggcagagg caggagaatc 303900
gttggaatcc aggaggcaga ggttgcaagt agctgagatc acaccactgc acttaagcct 303960
gggcaacaga gcaagaccct gtcttggaag aagaaaaaaa gaagaagaaa aaaaacctgg 304020
tttagctttt cttcattaga aaaaccacc taggatagaa gtcattgtga tgccaatggc 304080
tccttgtgaa tatttaagta tgttttgaat tctcatggct cccttttagct actgatgaca 304140
aatcaaatca aaagtagggg ccattctaga cttacagtta acaactttgc cactgcatga 304200
ctgagtgagt gagtgaatct tttcagtaat ctttgcctcc agtcaccttt tcagtacagg 304260
ttttttcgac ctgtaatatc aggatagttc ctttttttca tctggcctta gtgcatgcga 304320
ctctatcagg aatctaaact aataaactgc tgggggaatt tgtggaagtt acgctactta 304380
aaataccagg gaatactgta aaagcatttc tcctaaaaca acttcatgta gtaaaaggct 304440
tttgtaaagt ggtcagctgg aaacacagca tgaaaaggaa taaagcagag gagtgaagag 304500
cctcctgggtg gcccagattt gtgagtcagg caggtggccg aggcagccct ggggtggtctt 304560
gcgtccaacg gcatcagcct cagggggcac ccagactcct ggtgactgtt tctctcttca 304620
gttctgcaga gtggtcaaga tcacttgggt catgccacgt ttggtctttg tcaccctggt 304680
aggcattttt gccttttttt tttttttttt ttttttgagg cgcggtctcg ctctgtcgcc 304740
caggctggag tgcagtgggt cgatcttggc tcactgcaag ctccgcctcc tgggttcaag 304800
tgattttctt gcctcagcct cccgagtagc tgggattaca ggtgcccgcc accaggcctg 304860
gctgattttt gtatttttag taagacgggg ttttgccagg ttggccaggc tgggtctgaa 304920
ctcctgacct caggtagatc acctgccttg gcctcccaa gtgctgggat tacaggcgtg 304980
agccaccgcc tgtaattttt gtcttttaag tggggctcca tgaaggcagt cagaaaaccc 305040
agtttttaaa agagggtttc actacctttg acctccaggc aggtaagaac agggagaaat 305100
tcttgcatgc tgccccagac ttgccagaag ctcgtggcc aagaagtagc cccgtgcctg 305160
gctgcccctg aggcctcctc acaccaggag catttcatag cttgcccacc cctgttctgt 305220
gtctcctacc actccttcca tgccaactgc acgtttcatt atggtttccc acatccaaac 305280
ctcatagcaa atgtaatcgt ggtgataaaa ggtagtctag ccagcaacac taagtattaa 305340
aaatgactcc atgttatttt ggtatttaac tttgtaaaag aaaaaggaag agctttctgg 305400
ctattttaaaa agaaaaagaa gatgttggtt ttctgaaaa catagagctt tttcttgtca 305460
gcaatggctg atatactcca ttttttacia gaggcataaa gtcatgcata agtcttgttt 305520
tacagcgaat cagtgggaag tggcctacag cgggtcggct actgaatata ctttaccaca 305580
cttgaaacca ggcactttgt acaaaactccg agcgtgctgc atcagtaccg gtggacacag 305640
ccaggttggt tttgtttcca tataaaagta aacctctttg atcaaattca gaccagctgt 305700
ctgtaacatc agaatacaat tgcagtttaa acaatgtatc ttggtaatgc aacctgatag 305760
tatcaagtca ggaaatgaaa aatagagctt tttgaattgc tctttaaagg tataagatag 305820
gcctaaatga ttccctactg aattgtggta ttttcaggta ctttgtcac tcacttattt 305880

```

ctcagaagtc tttgacgtaa tcacctgtga cggttgaaaa ttatctggaa tttgcattga 305940
ctaaataaag gagacctcgg ttattgcaat gattaaaaaa ctatagaatt tctagttaaa 306000
agatgagacc tgtgcagcac tgctgttatc acgtctatca attttaagaa tttgagacat 306060
accttcctca aggtacttta ctgccatctg ctggaaagtt gttgtaaaaa caatgtaaat 306120
ccatgatgac tgagctgaat ggcacctcct caagttttgt ggtaccaaac gtacacatct 306180
gtaggcaaga tccattcttt tgtttctact atttatatga cctcagacta accagttaac 306240
atgtcaggag tcttagtttc aaccacattg tactctcata ggctcagaac aacctaataa 306300
atatacatgg agtactctag aaatgaaata attgttatct aaatggtttt aacttacact 306360
cagaaaaactg agtgagaaat gagatgccaa aagatacttt cactgtagag atattttaaca 306420
ttatgatttg aaaccactaa taatttagaa tgaaagagaa ggagagatgg tggcttacag 306480
ccctgtgctg gggtgacttt tcaagagaat acctgccgtt tgaatgcctg atttttctag 306540
tcaaccact tgcaacatca gtttttgtgt ttactttctt ttgccccaa ggatggtact 306600
aggacatcta gactgcccac gtagacactc cctgtgagga gaaggtccag ctggaccatc 306660
tttatacagt gccgaagctt tctggagtgc ctcccagggt ggagtaaate caaatcaaag 306720
ctgagattat cagtgggtact tcctatgtgt gaggcactac acaaggtggc actgagtctg 306780
aactgctcaa atgcatagag gtcatttcct ctgtgccact tcttagggag aaaattgaat 306840
gtggctgagc tgtatagctc tacctgattt tctcctgtct caggaatcgg gtcagcttcc 306900
atatcactag ccttacacaa ccagatcctg caaaataaag gcctacttat tttagcgtta 306960
acagtgcctg ctggttaatg tcagaatcaa ttgattaata ttgagtttat ttgcttttct 307020
gctctgtatg tgaatggttg gccacttatg gtaccatttt aaaatttcat ccagatgtcg 307080
ttttgtgttc tcttctgtcc tcatgaaggg tctttctaata tttgaattaa aggaaaagaa 307140
ttgcttagga tatacagtac tcatgtctgc taatctaact tcaaaaataa tcatttttgt 307200
ttttcccagt gccatatgaa gtctataacc accttaaaaa cacacacaca tacatttata 307260
tgaagatctt aattgcatta aaagcttacc ataatgtgca cacatttagt gtgtaacccc 307320
ttttcggtaa catttgcagt tatgggggtg aatttgccctg atatgtagag gtctgataaa 307380
ttcacagtaa ctaagagatg gttctctctg gtgtttctcc tgcagtgttc tgaaagtctc 307440
cctgttcgca cactaagcat tgcaccaggt cagtgtcgac caccgagggt tttgggtaga 307500
ccaaagcaca aagaagtcca cttagagtgg ggtgagtga caaaccttcc cgttgacatt 307560
ggtagtttg acaatcggag atgaagactt acgttttgta gttaagtttc aaagctttct 307620
tctaaagacc acgtatgttt ttgtctgttg aagatgtcca tattcctctt gaagtatgtt 307680
gacccagggt ttttatgtgt gtcattcccc ccatccacac cccaacact gaccctcatc 307740
ctcctcttcc tgatgggtcc acacacctgg ttatccccc acacttcagg ggacactttt 307800
ctaggagta tttcaagaac agccagtctt tttcagaaag ttttcaactt tattaatggg 307860
aaaaaaattt tgtactcaat ttagaaatta aaccaaagaa tagtttataa gatcacatgg 307920
aattcttcct cgtctctgtg tgtaaccacc tctgtgcat tgtcctgtgt gggctcctgat 307980
gtttttacag cgttgactta aactgtatta gcgtttttgt tgtgccaagc tgtttacaac 308040
atgtataatt acaaatacaa atgtacagaa ctctctagca gactattttt tcccaccact 308100
tatgtctaaa gtataataaa ttgtgccaac ctggggctct gtattttgat ttaatatgac 308160
ctttggtttc aaattaaaga catttttctt cttctttttt cttccattta cctagcatta 308220


```

aaatatgaag aaatataatct aatgttccta tgatttgggg attattttat caatgtaatt 308280
aaataaactt caatggactt gctttggaga gtatggataa catcattcag aaacttttat 308340
ttttatatct ctttttgggtg ggcagggatt cttttgtaag ggagatactg aggacaggcc 308400
acctatgtga tattttgcac aacttgtgtg aaatctgggtg cagtttggtc aactggaagt 308460
acaaagtgtt ctaagatgaa aataattctt cattcccaga tgttcctgca tctgaaagtg 308520
gctgtgaggt ctcagagtac agcgtggaga tgacggagcc cgaagacgta gcctcggagg 308580
tgtaccacgg cccagagctg gactgcactg tcggtaacct gcttcctgga accgtgtatc 308640
gcttccgggt gcgggctctg aatgatggag gggtagtat aagcccatac actgtaacca 308700
gaatcagaat gcatagtcag aacccaaagt gctagcactt ctgtctccag cctcctgaaa 308760
tttttggcag tcttaatgca acctgacaa ccattaatgc agtgtctgta aatcttaatt 308820
ctgagttgat attgttgtga tttcatatag acccagcatt agacgttttt tgtttctttt 308880
gtcctcatat cattctatga agacagcact caaggtaaataa aaagatatca cctgttagat 308940
acttttgaca attttcagaa aatttccttt tcttctattg actttatcag ttaagggaaa 309000
ttaggaatat ataatagttc taataaaagt ttataactct cttgtctaaa tgaaccagca 309060
acatcttagg tcagttttta caactagaga ggggtagcag ctggggacac cagcttgttt 309120
ttgttttggt tcaagtgaaa actgtaggac tctctggcct tccttctatt gctccatttg 309180
gagttgtcaa gttgagctat cagagattga gaatacatat gtctgtgtta tatccataaa 309240
gggtggtgtc ctttttttct ttaaaattgc caaatgatgt agatttgggg ggagatgaat 309300
aatgagcagt gggagtccca ttaactgtga ggcttttggg tgggcttaga gactgatgaa 309360
gcataaaagc gggcagaagg gcgtgggtaa agccagctaa tgctaaatgt cccatccaaa 309420
gtgccagtag tttgtataga tgggctccct gcaaataaat ataattagct aattgatttt 309480
tttaaaaaat aagaaaaccc aacttgcagt gactttttgt ttaagtgaag agcaagttaa 309540
ttaagaaagt aaaggaataa aagaagggtt attccttagg cagagcaccc gaaactggat 309600
ttcttctaata tctccaatag aaaagaattt cagacacaac aatgatactc aagtgaaaac 309660
aaaaaagtct aaacattaac gcctatgcac ctgaacttat aatcatgtaa gcgaaaagaa 309720
gatggatggg ggtgaacaca ctgttgtgtc tacccttctc tctcatcaac ttttcagtta 309780
ctgtctgcca caacaaagat aaatgtgcaa ctgggctggg gtgagttgta ctttgctcag 309840
ccctttcact gatttatcct ataaagaaac tatcttcagc ttgggtttat tcatgttgta 309900
ttagaaattc accatatata ttgctgtagt catcttccga ggtccatttc agagagcttc 309960
cccaactccc gagcatcttt gcatgttatg ttgagaggtg tttttttttt ttttcttccc 310020
catctttttt tcacattttg acaaggacag tcatatattt tgttatcctg gaaggttttt 310080
actctgcccc aaacctttga agtatcaaata atgctaccat taaaatgggc ggttcagggtg 310140
gctgtgactc tctcaaagtg tgctaagtct ctagcaattc ctggctctga gcagtgtggg 310200
cactgatggg aacatcagga ttgccgtgga tacccttgaa taggtgaggt gatgggaaca 310260
cactgagaaa acattacaga agcattcatt ttcaaaatgg aaagtaccag taactagaag 310320
aaatacctag aattcgatca ccaacaattc caagtatatt tttatgcatt aaaaattaaa 310380
ctgcagtggg catctgactt agttttcttg gatgtcctct gagaaatatg aaagcagatt 310440
gtcctgtttt gtcaaaaatc agcatatatt tatttcagat gtcccaagaa agggaaaata 310500
ttttgtcaac caactaatta ttttccattt aaaaaaatga cagacatcta ctactcaggg 310560

```

aatgtacata ggagaaaaac ttatacacat tgaattgaaa gttaaaatca ttgggcaata 310620
tttgtaaatt tgttgtgttg atgatgatgt tagcctagcc tttatgttgt tataagcttt 310680
tatatgcacg cacatacaca aacacataca cacatatata catatgtgtg tgtgtgtgtg 310740
tgtgtgtgtg tgttttcttt cagtacggtc cctattctga tgtctcagaa attaccactg 310800
ctgcggggcc ccttgacag tgcaaagcac cttgtatttc ttgtatgcct gatggatgtg 310860
tcttagtgag ttgggaggta agtcaggcac attctgcac aacttctgtt tcttctactt 310920
tatctacccc caaatacaaa tacaaattat aaggaagctg caaattcaaa atgcacatat 310980
agatgatttt ttatttattt atttatttat tttttttttt gctctgtata ctatagtaat 311040
cacccttagc acttgccact tgcttatgtt atttagagtt gtggaaattt taccatagtc 311100
aaaattgaga ggaaatgatt tctcatgcct ttcttttaaa acaattttta ttttatttta 311160
tttatttatt tttagttttc tgtgacggag tttcactctt gtcaccagg ctggagtga 311220
gtggtgcaat ctcggtcac tgcaacatcc gcctctggg ttcaagtgat tttctgcct 311280
cagactcctg agtagctggg attacgagtg cccgccacca cgcctggcta gtttttgtat 311340
ttttagtaga gacagggttt caccatgttg gtcaggctgg tctcaaactc cttaccttag 311400
gcaatccacc cacctcagcc tcccaaagt ctgggattac aggcgtgagc caccgcactt 311460
ggccctattt taaatttaaa tttctaaacc ttaaaaaaaa ttttatgggt acgtagtagg 311520
tgtatatatt tgtgatcatg cttttctttt atatgtgttt taaatattct gaggcattgt 311580
gctctctttc ccattttagt tacttgaata caagcacagt aggattctct tctcagtggc 311640
agcattaact acttcaattt ctgcctttcc agagtcctga tagttcttgt gctgacactt 311700
cagagtacag gttggaatgg ggagaagatg aagaatcctt agaactcatt tatcatggga 311760
cagacacccg ttttgaaata agagacctgt tgccctgtgc acaatattgc tgtagactac 311820
aggtaggttg acattattct gatgttactc acaaggactg gttttcccat gaaagacact 311880
ttgggaaacc cactcaaagg cttgtgggtg aggctgtcag gagggatgat atggaaaaaa 311940
agagtctgtt taaataaaaa tacatttggt tgttttggta ttttgagtt aatttccact 312000
tctctaggaa attctgaaac ttaagaacaa aataagtttc ttctccattc tgcttctcac 312060
cacccttgta tcttgtctgt tcatcagttt gctgaataaa tgaccaagt ccaagggaaa 312120
gatgacacag ctcttagagg aaggagcctt ctgtctcatt cccctgagat gcacatttca 312180
gtgggaaaga ctcttagagc tggcaaaaga cagaaaatta ttttacgagc tgtaaattgg 312240
agccaaaaat aatttgact agtctgcatt agattacagg accccacctc ccagtgcac 312300
ttatcaaggc tggttatcta taagcttcca cttgggagtc cagataaaat aacatcaaga 312360
aaaattgggt catagcctaa acccccagag tggcaacaac catgggttta cttttatttt 312420
actcacttgg ctatattatt attctttcta tgtaaagccc tagtctcttg agaaaataga 312480
gttatttgtc ctctctttc catctgttca gtaacatttc ttgagcatta tagtactttg 312540
taccaggatc aaaggaagat caggaagaga gatacaaaga ttaatgagat gtggttattg 312600
acctgaaga gctctgtctt catacacatt tagatttgaa tagataaaga agcagagatg 312660
ccaaagtcaa ctccacact gatttaagtc atggatcaaa ttccttatta caagtacacc 312720
cagtgtctct ggtctctttg gagaaaatat ttgcttcata acttaatttt tcagagcaac 312780
tgaagcattt ctgttaaatt ctgaagtcta ctttatttga aacatttctg attaaactct 312840
tttgttatac accttcttg cttctcgaat gaagcacctg ggacataatt aaccttttga 312900

caatgagtca gtgtcacagc aaattgtctg atctttataa tagtgatgct gagtcactgg 312960
 ggaaagggtta aattatgtgc cacactcctg tttttctatc aaggcaggat ataaataaag 313020
 agctgtctgc caccacagta aagaacttca ctccattatg gtttttgagt tttgatgttt 313080
 ctttaaaatg ttattatagt tccttttttt tctctttcac agtatatgtt gtcttagcat 313140
 tgactttctca aagctacatt ataaaagata cattaataag aatagaacct gcataataat 313200
 cttgcctccc tgtattaaca ggagtagaaa tatattttca aatgtctgta cttattttata 313260
 ataaaatgac tcagatctta tgaagggagt actactttta aaattacat tgccatgcta 313320
 aaggactatt gccaggaaaa ggatctgttc aacctgtatc gattttattgt tatttgtgga 313380
 ccaaatatga actattttca ttcaacatga ttacaaagtc aagttaaagtg ccaatagttt 313440
 ttgaatatatt ggcaacttaa aaatgtaaat atcggccggg catgggtggct cacacttgta 313500
 atcccagcac tgtaggaggc tgaggccaac tgattgcttg agccaggagt tcgagaccag 313560
 cctggacaat atggcaaaac tcctcctcta caaaaacaaa tacaaaaatt agccaggcac 313620
 ctgtagtccc agctgtctcag gagcctgagg caggaggatc acttgagcca ggtcaaggct 313680
 gtagtgacct gtgaccgcac cactgtacgc cagcctggcg acagagttag agcctgtctc 313740
 aaaaaataa aataatataa aaatgtatta taatacctat actgtgtttt atagaaattt 313800
 ggtggaacat ttcttgtttt gctcaggaat tttggaattt ttatattctc aggactgttt 313860
 taattaaatg ctggcgtaat tccattcata gagcatgttg tatattatag gcatactatt 313920
 atttataaaa agttgatttt gaattaaatt tcatttttaa actgttaata aaaagtggta 313980
 taaatcaaat gttttctata gaccaggct agttaaaga aggtaggatc ctggagtaga 314040
 aacagaacat tagaagaatt ggtaagattc tgattaggtc tgtatgttaa gagtatagta 314100
 ccagtataa tttttttctt tttttttttt ttgagacaga gtcttgctct gtcaccagg 314160
 ctagagtgtg gtggcgctat cttggctcac tgcaacctcc acctcgcggt ttcaagcgat 314220
 tctcctgcct cagcgtcctc agtaaccagg attacagatg cctgccacca cacctggcta 314280
 attttttgtg tgtttagtag agatagggtt tcaccagggt ggtaggctg gtctcgcact 314340
 cctgacttca gctgatccac tgccttggcc tcacaaagt ctgggattat aggcgtgagc 314400
 caccatgccc ggccaccagt gataatttcc tggatttgat cattaatctg tagttctgta 314460
 acatgttggc cttcggaaaa gcagagttag agatagacag aaatttctct gtactatttt 314520
 tgcaactttt ctgtaagtat taaaatagta cccaataaaa aggtgtttga aaaaatagag 314580
 aaaatactat tttgttcata attttcccag tgggaaggaa ggaagtgtag ctctactgc 314640
 tggcctgata ctctgccaa agttttacata ttaacctgtt gaatctttac agtaattcta 314700
 tgaagtagac attactgtcc ccattttaca gctgaggaaa caagctcaga gaaattaact 314760
 tacctaagat cacacagttg ttaaagatg gaatcaaggt ttgaactaag ctccaactct 314820
 taaaagccat attcttgtcc ttctgtgata tggcgatacc aaacctagt tgatacagac 314880
 attgggtccc atgatatcct atttttctgc ctctgtgata cttttatata agtaccacaaa 314940
 tctcaaaata tatactcata aaataatttg tgatgttaaa atttttccaa aaagagttaa 315000
 ggtgttgagg tattgtaatg aaacagaaat ggatatgaca aaatattaca gtagagtttc 315060
 aactgtgatt taatagcaaa taaatgcttt aagcctgctt ctttgaaatt aatgaaggag 315120
 ttataagctt tgtttttagac cttgatttaa gagctcaaac ttagccgggt gtgctggtgt 315180
 gtgcctgtgg ttccagctac tcaggaggct aaggtgggag gatcgcttga gcctagcaag 315240

cagaggttgc agtgagctaa gattgtgcc a ctgcactcca gacagagaca gaccctgtct 315300
caaaaaaaaa aaaaaaaaaa aaaaaacctc aaactccttt agttttttta tttgacctca 315360
taagctgtcc agtacctaa atgaaaacta agtttttagag tacattcact tttgtaagaa 315420
agctaccaaa tgtttttctc tttataagaa agaaaatctt tttgataaca tttattgaac 315480
acatactctg tatcaagtac agttgccaga aataatacaa cagtgcagcca gacaggcaac 315540
tttgccctta tgtaacttgc attctaatac gaggagtact atatactatg tcagtataa 315600
gtgtcatgat gtaaagtaca acaaagaagg gaaataggaa atgtgaaaga ccacagggga 315660
aggattgcaa gttgaaatgt gttcagagag ggctcgtga acaggtgaca cctacagacc 315720
ttctctcaaa tgaaggtgat tgagcgagct gtgcagatgt ctagagaaaa agctttctga 315780
acaggaggag cagccaagtg caaaggctgt gaggaggcag caaacttggg gtccctgtgg 315840
agcagcgggg aagacagtgt agctggagca gagtcagtaa aggggagagt agcaggcaat 315900
gaagtcacag tgctaattgg tttttgaagg ggattggtag tgaacagcag atcatatagg 315960
gttctgtagg gtttcataag aacttcaaag tttattctga ataagatgga agcccactga 316020
aggaatttga accaaaagtc ccaattcata ttttactga atcactctga tagctgtgaa 316080
tatagattat tgggcaagga ccgacataga taccagctag gaggtcatta gaataaccag 316140
ataggagaga gtgtggttgg actagagtaa tacaggatat gctgatggcc tggagagggg 316200
catgagaggg agaggaagaa aggtgtccag ggatgactga gttatgactt gagtgtctctg 316260
aaggatgagg gaaacctcag gagatgcagt caggtttttg taaggagaga tgggatgggg 316320
atgaggagct gtgtggacat ttgagtttga gaggcctgtt ggacatgcaa gtggagatac 316380
tcagtggttg aatacagata ccctagacca gtattcagag caggagtgtg ggctgcacat 316440
ccaaatttgg gagtaggtta tcagtgggtg ttacgccttg agacaagatg acatctctaa 316500
aagttttagt agaggtagaa aagaggaggt agccaagtac caagcgtga tactcaccag 316560
tgtaagaga ttaggggtgat ggtagcaagc agcaatggtg attgagaggc agcagcagca 316620
agtaaggtag gaggagaggt aagtgtggca tcttgagac ctagtgatga ataagcattt 316680
gaaagatctg ggagtgatta ggtatcagct cttgctcttg ggtaaagtca gatgagtgt 316740
aaggattgac ttcagggatg agtttattat tcatgtggaa gatagaagat gcctcttcct 316800
attgctattc caggacagct ctagacttaa aagccagatg aactggattc tgggtcccagc 316860
tttgccctca aatctgaggc ctaagttatc taatctgact ctgagttccc gtctctgtaa 316920
aaggcagata agaataccta ccatttaaga tctaccatag tgggttatta tgaagatcat 316980
gtaagatgat gtataaaactg aaataggtca tgcaaataa aatattatt tttaaattat 317040
ttttcataag aaatgatggt ggccatattt tgctttaata atggaaaaa tgtggttggc 317100
atgttttggg aggtggtcat cagacagtag acattttcta ggatttattt ctacctgcat 317160
gtctggaaat gtgtactact ttagatttat ttaatggcag ctaactcaga ggcatacaaa 317220
cgtgctaata gtgtaatatg gccttcgtct tgctgttctg tttttaggc cttcaatcaa 317280
gcagggccag ggccatacag tgaacttgtc ctttgccaga caccagcgtc tgcccctgac 317340
ccgtctcca ctctctgtgt cctggaggag gagccctcg atgcctacc tgattcacct 317400
tctgcgtgcc ttgtactgaa ctgggaagag ccgtgcaata acgatctga aatccttggg 317460
tacaacattg atctaggaga cactagcatt accgtgggca acaccaccac gcatgttatg 317520
aaagatctcc ttccagaaac cacctaccgg tgagtgcagg ggagtagaaa tctgcatcaa 317580

cacatcagca cttggggctc taagtaaact gctgggggaa aatgaccagt gaatgtcatc 317640
 tcctagctgt ttctaagagc ccagatgtcc agggctctgt ctcaccttga tccctcaggc 317700
 cagaagacct gtgaaaaagc cacacgggtg cagggactca ctggacagtt ttgtgtccac 317760
 tctgaccac accgtgtctc accccagagt ggactcaaat cctcaagtca gtcctctgaa 317820
 cactcaagtc agaaattata aaaggtcttt ggcaatacgt tagcccaaga atttggcttc 317880
 ttccagacat tgtgccgacc ttaacgggtg cttaaatgat gataaaactt ttaagatttc 317940
 taaaaggatg gcattagaga tatgttgact tttattaaac aacctatggt tgtttaatga 318000
 ctaataaaaa aatatctaga gctcaagggt tcaactgagg gaacacatgt tgagaatcat 318060
 tgtttactaa ggaaatgcc a gtaaccgct gaaattatca aaaatatctt ccacatacca 318120
 gaaagcacct cagaggatag ttctgttatg gagaagatga aatggtttag tagttagga 318180
 actatggaaa ggtgagctta gatttgata gtaaacctc aagaccctat ttaaaaagt 318240
 tttaatgaat gcaccataaa taatttaatt cagtattatt atgccaaggc tagtacattg 318300
 agctgaatgt gaaaagaaac tcacattggg agaatgccac cttttcctta taagatagct 318360
 ttgaagatac cattttagac agatggcaat ttaatagctt tagaaaaggc aaatgtttgg 318420
 tcctagtcac acagttgatc ttggcaaaaa aaacaaaaaa caaaaaaaa ctttagactg 318480
 tctttgctgg ccaatcaata aattataaat tggacattac atacttgagg taaaaacaat 318540
 tcatacttgc tttttctttt acatcttgaa gtagaggctg atttttcaaa ataatagcct 318600
 accaaatgaa tgaaaatcaa tcgaaacctt ttatgttcaa tatcattcta tagtagtttg 318660
 ttttatctt gattaacatg taggacaatt ttacataccc atttctgttt atatacaaat 318720
 agacaaaaaa tttcaaatat gaattattat cgtattttaa ttctttctag ttttaatcca 318780
 ttgttcactt aatctgaatt acattttgtg agtcagtatt tatcatttaa taatagtata 318840
 ttttatattt tatatcatga aatcataaac taaatattag ggaccaagtt caattaatat 318900
 ttttacttgc taatgtttat aactaagata ttggtgtgcc catatcagca aatgagtatt 318960
 ttttcaataa aaaaatataa acaataaaaa aataataatt catacttaag accaaccggt 319020
 ttacagcttt aggaatttta gtttctatag cacacagttg ggtatactat atagtattaa 319080
 tagaactatg ttcaaaccac agtcttgttg ttttatgttt caaaaacata attgcaataa 319140
 ttatagttaa atacagaatg agtatttcaa ggaaccaaag gtataatttt ggcccaatca 319200
 acttttactt cacctttttt ctgtcctata aattggttaa aatataagtg aacagatcat 319260
 gatgttctag ataaaaacat gtggaatgaa acattttaag cagaccatgg agcttgata 319320
 aaagacttgt ttcttttgtt tgattttctt tttttcttt tctttttttt tttttaagc 319380
 cttcagcagt tacatattat tctcatacca agcttattct ttctctgtgt tgccaggacg 319440
 ggggtgtaca cctctctagt aaatgtccta atgcgaaaaa gctttttcaa tggattggtc 319500
 atttctccat ggggtgctatt aaagcaaact acccattggc ttgctgacac actctgtaga 319560
 aatttcaatt ctgtaggaat tacaatgcta cttttaagc cattccttta agtttataat 319620
 tgagtttgaa attgaatttg tccttttagt tgaaggaaaa cagtattatt aaaaatgaaa 319680
 acctaacctt gctttgtatg cttccagcca agtagtcata gatttgcaa gataagaggg 319740
 tcatcggatc acctggtatc actcctccc agtccttcta tggcttgagc atcttcagt 319800
 acaggagcag tggttctagc ttccactcac caggcagtc attctatttg tggataaacc 319860
 tctctgtatc tgaatctatt tgtggatcaa cctctctata tctgtatcta tatctaaaat 319920

caactgctgg ccttagaact tcctcaacaa cagtgatttt cgaagtgtgg tccctggacc 319980
agtagcatta gcatcatctg ggaactcgat aaatgcaaat tatcaggctc caccceaaac 320040
ctacttaatt agaaaatcta ggggtggggc gtagtacttt gtgctttaat tggcctttca 320100
gaagattttg atgcttatga aaacttgaaa agctcggccc tagagcagcg attcttaaat 320160
gtcaatgtat ataagagttg cctggagAAC cttttcaaaa tacaggtgtc tgagccctac 320220
tcctgtagac cgcagttggc cccacagggg gcctaaacat cattatgttc taatgacagc 320280
tgtctcttat ttaaccatcc cactatcatt tacagtgtct tcactagcat aggtttttcta 320340
taactgcctc cctcctcttt gagtgttttt aggttttttg tgacctctct gacgtgcagt 320400
gcccgtacct ccaggaatgg tctggttgac tggctcagag cagaccagga ctgttgccct 320460
ccttgttctc cgtactgagc agttagttag attgcctgag attacttttt ttaaacaacc 320520
ttattatatg cctgactcat actgagctgg caggcaacca aaacttaaag tagatttggt 320580
tgttatgctc atttgtaact cttttgctaa gtacaaaagg cttaaaaata acatgtattg 320640
agcccttact atatggtaag cactatgtta ggctgccaa aagtgaatca taaatcattt 320700
tgtcgtaaca aggtgaggtg ggctttacta ggagacaagt tctgagtagt tcagtggtag 320760
cagactggag tcagacagcc tagacttcaa tcctatccct tatttattgt gtctgcaaac 320820
tttaggaagt tacttaagct ctctgtgcct cagtttctg accaataaaa aggggataat 320880
aattttcaact acttaacaga gttgttaggt attgtagata agaggtcagg tacctagtat 320940
ggggcctgac acttagtaaa taaattatca gaaaatctgt tgttaatgtt tggtaggaaa 321000
gaaatgaacc gaaagatggg tcgtaaccag attataggtg gagatcttat ctgtagaaac 321060
ctggcattat ccctcaaggt tttttgcct ccagagcagg gtatgagaag agcaagtctc 321120
agtgcctgga gctggaatgg tggcattggt gtcaaaggag ctttcaggag cagcagcttg 321180
gtgagaggcc agttccgact cccctctcca ggaagccttc tctgaataac ttactctga 321240
gcccattctt tccccacaa aagggttttt ctgtgtttgc tattatttcg tacttcagat 321300
gttttctgat gatgattctc ttctttcata tttttcttca ttagatgata gtccagggca 321360
gggctgttgt aaaagccagc ccatcttgtg cttctcagge ctctcctacc ctagtccctt 321420
cggctgcggg ccctctcagt ctcttcaca cccacactct caacatgctg agttctggga 321480
tgGCCagttc tgatgaggga agtcttccca gctaaggatg gtttgttttg aaagtcattc 321540
ttcttttaat atattttgta gtagaaattt gattatgtat ataaagtgca ttgcagaagg 321600
ctatgatctt ctaaagcatg agtgattttg gcatataaaa tttgatcctt taatagtgga 321660
tttttaataca aaatttataa agaatgtggt tctttatttg atttgtttaa tcaataatat 321720
tagtatattg atgaatattg cagactcccg gaaacatgaa gagatttttc acatcagcct 321780
ggccaagata gaatttgctt ggggttacat cacttctcca aattggaaag gaaaatgcta 321840
cttcccttgt acttaatttg cagagctgaa gattttttta acagacataa tgcaaattaa 321900
acaaaacaga gacctgcaga ttttatctag gtttcaagat tagcatgtta cttgaactaa 321960
agagaaaact tctcaagttt gggttttgga tagactctaa ttaatgtaat aaaacttaaa 322020
attcaatttt tattttctga ggtgaattct tggagtgggt cctcaggtta gtggtttgcc 322080
cattagtcca atgtcacctc tcaactgaatt aggaaattat tttcacatac tgtgtttttc 322140
accctaaacc aaaacaaaca gcaactgcct cagtctcat tcagctgtct cagcctccca 322200
tgctcagagg ccttatattt tcctcataat gcaacatcat ttcattctat tttatcagtt 322260

cctcaattgt tttccatttt aaatgttaca tcatcattag aaacaattaa agtttagctca 322320
gtgcatcagc tatacacgta aatgttcatg tatttttgcg taaacaaaat gtgtttttgt 322380
caaaatgtag gatagggtga attgagcatt ttaaaatcta gatagttgat ttcattggcca 322440
gatgctgctt gaataaagtg aagtaaactt gttgactctt ctaaattgcct gcttccttgg 322500
cagacgggtca ttgttgaact gaaagtgtgg tttgaattaa acatgatcat ttgggtgggat 322560
tggttagccat atttggtccc tgttacgata tgaccgtatg gtatgccaga cacacagggc 322620
ctttgcacct aaagggagtc ctgttcacgc ctggatctaa cgtgtgtctg acacgaccgc 322680
tgagctgcag tttcttctact tgtaaaacag acaaagtagc tcctacctta tggggtcagc 322740
atagaaatca gagatgatat ttagatgtgc aaacctagct ttcaaccctt agtggccact 322800
ctgtcattta gatcaagtta tttaacctct ctgcatttaa ctttggtttc ctcatctcta 322860
aaagcagatg taatagtact tcccactcta gtgcattttc tggaacaggg caagtcttca 322920
atgtgtgtag tgatggttgc cattgttgtt ttcttcaatt gctgagatct ttgtctcact 322980
ctcacctggc tgtggatggc ttataaagaa gcccatcctt tcagctgttg gtgagtcctt 323040
ggccattcct tggaggaagt gggatcagca ggttactcat gttataaagt gaggtggtgt 323100
aatagtgcag ccgcagtgag acctgcccct gtgccagcac ttttggcaag acgtagcact 323160
cccaaagaag tcatcaagat catgactcca aaaatgaaca cttgaaagt ttgctagtgt 323220
tttggctgtc ttgaatcctc tcctgatttt attgtagagt ataaagtatt aaaaattaga 323280
aaatacataa atcccttctc ttagttaagt aatcttcttt gcaattgcag aaaaaagtca 323340
ctgtcccat ttgatagata aggaaactgt tacataaaag tgttcaataa tttctccaag 323400
gtctccaaat tgatgagcag gattcccaga gaagctacac tgctaaagag tgttaaatgc 323460
taccacagtt ttcttgggtg tgggtggtgt ggtggtggtg tgtgttaaag ctaagattat 323520
atgcctagga aatatacgca gtgaaagatt ggaaaacat agagctaaag atataaagaa 323580
cctagtactt accaaaatac tagggaggct ttgaggaagt aatgaattt acaacagaaa 323640
tcaaatacca aatctaaatt tatttttgta tcttaatact tgtatcttct aaactatttt 323700
taaattctta taagtattt aaatctctta gcaattttt tcttgaatag aatagaacaa 323760
caatcttaag gaactcatta cttattttc ttttgtgtat taaagtagct aagagctatt 323820
cagtggcaca gagcaaagg taggatcccc tagaatgcaa ggtaagccag cagatggcag 323880
aaaggatatt ggccctctga atctgggaat gttgtacct agaataaagg gaaggaatgg 323940
tggtttggac actggaagga ctttaataa aacctgttag gtgaggaaat gtgttacct 324000
gttgaagaaa gactaaaact taatgtccgg cttattttc ttttctgag aaggggaaga 324060
gggtagtaat ttctaccatc atgatgactg cttttttaa aagattttt atttccagtt 324120
gcagaaaaat atgttacatt ccaatcatag aaagaaactc ttctattaat accataaagc 324180
aatcttataa gactcatgtg ggaggcaagg aagagtttta gtcgttcagt gttataaccga 324240
gagacttaca ttgctttatc tacagaagac tcgatgcaac ccagtgtaa tagaatctgg 324300
gaaaaataag gccctttgtg atggagtttt tgctctactt tatcagagat gagtatttac 324360
tacattccaa acgatgaggc agatctttat ctagttttag gtgattataa gtagagctgc 324420
tgtaaacatt tgtgtgcagg tttttgtgtg aacataaata ttaattttt tagagtaaatt 324480
acctaggatt gggattgctg ggtcatgtaa taagtatata tttaaaagga aaccattctc 324540
ctatgtggcc atgtcagttt tcattatcac tagcaaaata ggagagttcc agttgtacct 324600

tatccctgcc agcacttttt taacataatg gtattacatt gccaathtag tttgcatttt 324660
tctaattggct aatgatgtca aacatgtcct tatttgccat ctgtatttcc tctttggtag 324720
agtgtctatt ccagtcctcc gcccatTTTT aatggattat ttccttaacc gagttttggg 324780
aggtcattat acattctgga tacaatatcat ttgtcagatg taatgttggc acatattttc 324840
ttccagtatc tatttgTTTT cattctctta gcagtgcAAA aatttcaaAT tttgatgaaa 324900
tccagtTTTT ttttttttcc ttttatgtaa gatcatgctt ttcattgtcat atccaaaaac 324960
tctttactta attctaggta gtaggttttc ttctgtgttt tcttcttaaa agtttaatat 325020
tctacattta gatctgtggt cctttttgag ctaagttttg tgtaagggtg gaggttgaag 325080
ctgaggttta ttttcttccct actgatatcc aattattcca ccaccatctg ttgaaaagac 325140
tgtcttttct ccattggatt gcttttgcAT ctttgtcaaa agttgattgg ccacgtttgt 325200
gtaggtctat ttctggagtc tctattctct tgtattgate taggtgtttt tcttttctact 325260
ggtactacac tctcctgatt actgtagctt tataactaagt cctaaaatca ggtagtgtga 325320
ttcttcaaac tttattctta ttttttagact ttgcattagc tatttttagtt cttttgcctt 325380
tccacatcac tttttttttt aatgtataaa gaaaagagat tggtttggct cataataaac 325440
tgtaggctgt acaaaacctt tggttctgta ggctgtacaa aaagtgtggt gtcagcctat 325500
gcttctaattg aggctcaat aaacctttaa ttattcggtc ttcctaggcc tctggaggag 325560
aggggctgtg tctccaagat ttctgaaatg cttttaaggg ctttttccca ttatcttgaa 325620
tgttagtacc aggtccctt ttaatcatgc taatctctct agcaagtggg tgctctacag 325680
actgcgttga ttcttctcct gaaagtactc tttccttctc taccacatgg ccaggctgca 325740
aattttgcaa attgttactc ttgtcttccc ttataattgt aagttccaac tttaagtcat 325800
tcgtttgctc ccatacttga tcacaggttg ttagaagcag ccaggtcacc tctggaacac 325860
tttactccta gaaatttctt ttgtcagata ccctaagtta tctctctacc aaagaggaag 325920
ttcagccttc caciaagccc taggacatgg aaacaatgca gcgaagtcca ttgctccagt 325980
tcccaaaagt tcttcatctc catctgagac ctccgcagca tggccttcac tgcccatatt 326040
tccatcagca ctttgggtcat aaccacttaa tcagtgtcta agaagtcca gactttcctg 326100
tcttcttctg agctctccag actcttccag tgtctgcccc ttaccactt ccaaagtcaa 326160
ttccacattt tcaggatatct ttatagcaac cctctactcc tcagtaccaa tttgctttga 326220
gttcattttg tgttgtctaa acaattctcc caccacaacc tccaagtac tggggccaca 326280
ggcatgtgct gctatgcccc ctaaatttat tttttgtag agatggagtc tctactaggtg 326340
gcccagcctg gtctcaaaact cctggactca ggcaatctc ctgcctcggc ttctcaaagc 326400
actggaatta cagggtgtgag ccactgtgcc tggcctaaaa taacatttta tatatacatt 326460
ttaactcttt gattttaaat tcatagatga taaaggtaat atctttctta ttcataactc 326520
tgtgtctcac atagaaaata tccagctaag atttttgcac atctggatgg catcctgtta 326580
ctagcaatat ctgcatgctt agctctagtt aaagacttgc agagattgtt ggatgaggct 326640
ggcaaaaggg agacatgaaa tgtcctattg atgagttgtc ctttgttttt tgactttgaa 326700
ggatactcat ttgttccttc atttagttta ctcttgatag ctacactact tccaaaactg 326760
accatgaggt agctgaaggg taactaggac aaaatataaa gcatactttt aggatatctt 326820
ccctgagaca acaaacctat tttttaaaaa ttaaagaact aagagatatc ttgctaccgt 326880
gcttttttgc tattattatt atttttttta atggagacta tagtctgtcc acctagcaac 326940

cccatgcttc tatttgtctt gagttacttt aacttgtttt tcttcattct atgttattgc 327000
tttaggggca agtaataaat actatgctca atgtttatatt caaatgaagt attgctgctg 327060
ctttaacctg cattgtctgt attttttttt tcctttctct aggatcagaa ttcaggctat 327120
aaatgaaatt ggagctggac catttagtca gttcattaaa gcaaaaactc ggccattacc 327180
acccttgcct cctaggctag aatgtgctgc tgctggctct cagagcctga agctaaaatg 327240
gggagacagt aactccaaga cacatgctgc tgacgacatg gtgtacacac tacagctgga 327300
ggacagaaac aagaggtagg gtgggggtga ggatgctcct gaagcttctg tggctttgac 327360
ttgcggggtg aaatctcaat catacattct tatttgcttg cactaagacc ctcttccttc 327420
ttgttcagag gcttcctttg acttgagtcc tgcgttttat acctagagtt gttcccttta 327480
ttctccattt ggatttttcta aacattctaa agatcctgat tttcctacat aagataatat 327540
gcactttttt tttccctttc atcaaaccag ataatggaga gaaattatct aaagaaattg 327600
tcaaattcaa gttcacacta tgtaatagca ttatattagt catgagtgcg gagggaaata 327660
agaccagga agagatgtta cctcttttaa tattcagtaa ccatcaggac aaacatgttt 327720
accaatgtga aatagctgtg ggtgatgtac agatggggat tgtactctgt aactatgggc 327780
aatgcagtat caaattaacc agagcaaata ggagattctt cataagactc tgtaccagg 327840
aaaccctctt ggctgttcaa atcaaagtga gcctttcaca tagtatttgt ttaacctaac 327900
ttcattttct ctgaaaatgg ccgatcagaa gacagtcagc caaactgtat ttagaaataa 327960
tctgatgtca agcaaaagtt aatggtgaca gaatgttctg ttaccaaaag tcctaatacag 328020
agaatcaggt aaaggggatg ggagagcacc ataaaaccaa gacaaccaa atgctgtctac 328080
ttacctgctt acctactgac acacaaaacc agtgtcagta tagaagcatt tctgtcattt 328140
ccttttatgc attatactat tctgttctac acatatggaa cccgttctaa ttacacagaa 328200
aaccctgtcc cagtctccac cccctactct tcagtcaggt gctctgatgg atttcagtac 328260
agtggagccc tgtgggcctt cagtggaaac caagattaaa aatcacataa gaccctacct 328320
ctaggagcat aataatcaat tttaaaaatg gccgtagaac gttagtgtca gaggaaaaaa 328380
gtgctttggg agtttgaagg aggagagac catctggttt aaaagatcag gaaaggtttc 328440
ttgaaagatg tgacatttga gcttgacttt ggaggacctg gcaaacctgg taattttaat 328500
gacagaataa aaagggatta tcctcttgga aattagttct agtgaagaga acacagagaa 328560
gttaaggctt cctttgatag gttcatgaaa gattaaattc atattcattg atacacaaga 328620
tcattcatct tactgtgcta tatgtgcctt cggatgtgtt ttcattgggct tattatttta 328680
ctggctaggg actactcaat gggagagggc tggcaagaac aggaattgtg aactaacaga 328740
aatcacata catgtataaa actagcattg ggggaaattt ttaagtgtct tttcattttt 328800
cccaggcctg tgtcttccat tgggtgtaaa tccttagaaa atagcttcta gttgtgctgt 328860
tttagaaaaa agggaagcac agcaaagttg ttgaaactgg tagctagccg aatagggata 328920
aaggccaatg ccttccaatt ccccggtgcc tgcttccact gctgtcttag aaatatggga 328980
agtgaagact ctgccccaa aagggcacc cctcttgttg caatcctgcc ctgtgtgggg 329040
cagcaacca ctagtgctc atagggaata ccatacaaac atgtaatctg atccaaggtt 329100
ttccatgaca cgggtgctcc tgggcacaga acaaaagctc cccaagcact tttccaaatg 329160
aggttgctgg catgaggcat ttaaataatgc cagacaaaaa atagtgcaga atctagtaat 329220
caatacatgt tgtttcttcc cccctcaaaa agcccaaggc ttgcctaate aaataaatga 329280

```

cttgcctaaa tttaaattggc aatttaagaa aacttcacat taggaacagt atttttctta 329340
attataggag ctagagtcca aatttatctt tttaaattaa atttgtcaat gctctcagaa 329400
agttattaaa gtgatgggaa tatcgagcat aataaattct cattctatth gtgaataatt 329460
ttcctgagat ttaatagaat gaaaacagcc taatttttagt ttgaagatga ctttcgtcag 329520
tgtcttgaaa ctgaactctt gtagtgagtgc gccttttgaa ttcaagcctt taactttgaa 329580
tcttggcaca cggatatcaa ggagaaacaa tttgagttgg atacatcata atgcttatta 329640
ttagcatagc ctttgtcaat ctagtctcct caaggttctt taggacctgg cttctgcagt 329700
tgaaaagaac agtgtcttcc tcccaagggg tagctgtctt tttcattgag cttgttgcta 329760
gaggagcttc tagttgtaaa gcacatatc tttagcatat gtgttaattt cattaaccac 329820
cagtaagttc gtcttatgca cgtggccaga ataatgatat atccagcttg tggccaaggc 329880
gagaaccata gatagcttc attgttatc tacttcaact ttttacctgc gggctctcaa 329940
agagatthtt ttctcttaa gtttgagcat atthcttgta aataaaaggg atcccaaaga 330000
gcactttgtg cgaaccctg gcttaagaca actcaaccta aaattcatct agatcacctg 330060
gactttctat gttgaaagga tttttcccc cggaatggga cttttgtttc ccatctatth 330120
gggcttacga tactgaagag tcctagtcca ttttatgag ggaagcagcc tgaaagtgtt 330180
accatgaaca cttataaaac aggcattgtg ggcctttgaa aagaaagctg ctgatgtctg 330240
agttgtgtgg gagtcctaac cagctgttta agtgttcttc ttaagtatat tttgtaacag 330300
aagaaaaatg aaaaattaata tatctgtgct tcataattat catgttaaag aattgagtca 330360
atthtagcaa ctattgctaa acttccttat tcattaaata aagggttaa actagaagac 330420
gatctctgat atcctthcac cthttcacct taaagcaaca aatctthgta gagtatthgt 330480
gagttaagtc ccttgtaaat gattgggacg tgttgccctt tthctthtat atththtagcc 330540
tctgctatth ataagtaaga aaataagaaa aatactaact tcccttaaga gtaactactt 330600
aatgtcccaa aaccctcag gttctgcaac tatgatgcac tgatttatga tgtthattth 330660
tatgcctctc actcagaaaa tttgaagtga ccaagagatt tacaatgca atgttcagcc 330720
aaaaatgtth ttaacctth aaaggatagt tatatthth tcatthgttat tttgtthattg 330780
ttgttgthth tacagcctcc ctcccaggaa actthctatth attgcatgcc tacagagcgc 330840
taagtgttga gagctctgcc tacattatth agthcttgaa taaaaggga aataththct 330900
agaaagtagg gthtggtgcc gggcgcggtg gctcaagcct gtaatcccag cactthggga 330960
ggccgaggcg ggtggatcac gaggtcagga gatcgagact atcctggcta acatggtgaa 331020
accccgctct tactaaaaat acaaaaaact agccggcggt ggtggcgggc acctgtagtc 331080
ccagctactg ggaggctgag gtgggagaat ggcgtgaatc cgggaggcgg acctgtagt 331140
gagccgagat cacgccactg cactccagcc tgggagacac agcgagactc cgtctcaaaa 331200
aaaaaaaaaa aaagaaagta gggthtgtaaaa aaagcctth tgccatthtag gtgaaaaaaa 331260
atacattgat aagttgattt gatttcaact tacaattatt ggatththtat acatcaaata 331320
gaggcactgc ttaagtatta gatggacaaa gatgactaag atagatccct taaggagctc 331380
acagtctggt ggggtgatgtt aggcacagaa tgctthtaag caaattatga tgtggaaggc 331440
ctaaagattg acacgtgcac agggcattag agggaaaatt gaagaatggc atctaaggta 331500
ggcttaaaat caaatgaaca cthcttagaa aagatgatag gttgagttag tcttaaaagg 331560
atgctaactc tgtaacctga tgtctgggga gctthgggaa ggagactagt gatgaagact 331620

```

tgggatagga tgaaattaca gacaaaacct ccaaagtaca gaaaggtacc ctgagtcttt 331680
ctccaggtaa ctgtctttat ttggttattt tcagacctgg tgctttcttt cccgttaagt 331740
ttgggcatgt ttcatgtaaa taaaggagat cccaaagagc atcttgccca aacccttggc 331800
tcaaggcaaa tcaacctaga attcatctag atcacctgga cttgctatgt tgaaaggatt 331860
ctacccccgg ggataggaca tttgtttccc atttattctg gcttatgata ctgaagattc 331920
ccagtccata tttatgcagg aagcagcctt aaagcagtgc ttcatattta tggaactaag 331980
ttcattttcat tgataagatt atgatcattc aatcatcgat tttttttttt tttcttgaat 332040
tgctactatg tgctgggcct tatgaggtat gtggactatc tatgagagct tatcttgctg 332100
aggagataa attaacatta aacaataagc agacagtaaa agagacagca gacagcaaaa 332160
caaaaattaa attagtttgg ccttagagtg attaagtcta ttattcttaa cagatccagc 332220
acagaagata tgaatgtctt tggttcccgt gttatacaag aaaaatata ctccaaagta 332280
aacattttcca taaagctgca ttaacctcat acaggcacta gaataacagg atcagcttgt 332340
gcgttttaag attgtagcac tgtgccgatg actttgaaga tgcgtttatc tgtgttaaat 332400
gaaatgttat gctgccctaa cagaattgga gttgatgctg ctccctgtcc tgacccttgt 332460
gggtctatgt tccccgataa ttgtatacag cactgaggca ggaagaacgt aaattccagg 332520
aatgcattta tggttaatct gttgttgagg tttagtcaga cagccagtgt tttttaaacc 332580
aaggctccat gaaattgggc tggaggaaga gggatctaata agagcagata attaccactt 332640
gctctccatt aactcagcca ttgtgccag gacacttttc cttttggcca gcaaaattgg 332700
agaggctttg tcatgtttac agggagcctg cctgttggtt attagagagg gacagaaaga 332760
atctgatata gaaaccctaa aagaatacac actaggcaag taataaaagt ggccgggaac 332820
ctgagcagca tagtgagacc ctttctctaa aacaattttt aaaaacttag ccaggcatgg 332880
aggcacacac tgggtcccag ctactccgga ggctgaagtg ggaggatccc ttgaactcag 332940
gagtttgagg ttgcagtgag ctgtgatcgc accgttacac tccagctcgg gcaacagagt 333000
gagacccaga ctctttaaaa aacaaacaaa aaaaaagtct ggagtatatg ggcactgaga 333060
aggtgtgagc tttctcagtg tatgcctatt atagaacaaa ctcttgctta tatttctcag 333120
accatgttgc tgaattaaat gaaatagatg tgaggcagcc agctcagggc tggaccttta 333180
agaaaccctc aggatttgtt tccagtgcct ctctgactag tccccgatcc atatgatcat 333240
ctttatttga taaatgacat tttcatatta catccatcag aaggctatca tgattctcga 333300
catgggtgtc aaatctctta aaatcccaga tctgttgctg gatttctagg tgactagagg 333360
catatccctt cacttctttt tgccttaatt tcccctccta caaatgcaa ataatgatag 333420
ctgtcttcag tccttaactg atggagaaaa aaagatttag aaacgttttt ggctggatgt 333480
ggtagctcat gcctgtaatc ccaacacttt gggaggccga ggcagatggg tcacctgagg 333540
ttaggagttc aagaccagcc tggccaacat ggtgaaacce catctctact aaaaatacaa 333600
aaattagcca ggcatggtgg cagatgccta taatcccagc tacttgggag cctgaggcag 333660
gagaattgcc tgaacctggg aggcagaggt tgcagtgagc cgagatcgcg ccaactgcact 333720
ccagcctggg cgacagagca agactccatc taaaaaaaaa aaaaaggaca ttttttattt 333780
attagaaaag gagcatttta tctcttagaa gttttatctc ttagaaaaac agtttagcct 333840
ttgaaacaga gtagcttagt caatcttagg ctaaaatgtc caggcacaga cagaggtgag 333900
aggtggcaga tgaactatth gagatcttaa ctggaccgga aatagaagtc agattgcagt 333960

tttacctctc atttactaaa aacaaaaata acagaatgga attagatagc attttttttc 334020
aggttgagac aaggtcacta aaacattagt aggcaagtag aaatttagaa aactctggga 334080
atagcatcct tgaagatttc actgcataca cttgaaagca gagtaggaga gtgggagaat 334140
gcaaacctttt cagggtgtct ttagaaattc tagtcatcct tttttcaaata ataaataaat 334200
ctccattttta atatatattaat gcctaaaagta tacaaaaaaa aaagattttt ttttgtttta 334260
ttccttttatt ctttgtaaag aatttccacc atcagtaggt attagtgaat ttttatctct 334320
tagaaaagga gcataaaaaat attccactca ttaatgaaac agtattacag cctgatcact 334380
caccagccaa aaaaggtcca tatacagcca gggacagagg gttaggaaat taacctcttt 334440
tctcaatagc tgttggcacg ttcattgtca gttggtaaaa ggggactctt gccaacatca 334500
aaatcagttt aggtattgca ctttccctgc ctcaggttcc ccacatgatg ccatctgctt 334560
ctccatagac atggtcagac tccatgttct tggcagagtg agggcgaata ctatccattt 334620
ctattttgag caccattcgt tcccaaagtc cacctgagta acatacgga tttctctatct 334680
cttctctctc ctctcattca tacacataca cacaatccat ggagcccagg gaaattaaga 334740
aaaaaaaaaa gacatgtcat ttttaataaa tattgctgag ctgttgagtt ttgatattgt 334800
gaaacatggt ttgaaaggta ccatttgacg ctttttagtg actacaggtt attttaggtc 334860
agcaggttag agcattttga gaagttaatg ttaatgggtt gctgtgagcc tgtagttggc 334920
ctagggatta taagataaca aggtagtaaa cgtggaaacg ttagcattat ctcttatttt 334980
ccaccatgaa ttttaagttat aggccagtt gagcattctt ggatgttttt ttcaaaagga 335040
aactgtttta aggaacatt ctaaatctaa attcttcatg tatattatat atccccctat 335100
agtgatttta aataaaggaa catttaaaga tttacatga tggaacttct tccctcagtt 335160
gcacttgagt gcaagaagtc aactttcaca atgttaaagc ctaaaatatt gaaattaaaa 335220
gtatagcctt cccctggaat ttctggaaaa tgcccagaat ctgttgtttg cttttctagt 335280
gcataattcaa taaggagtca taggatttac ttcgatctca taaaagttcc tgccaaccga 335340
acaagacagc tgttttctgg cagttgagct gcagagagtt atgtgactcg ttcaagttta 335400
cagtgacggt aatagtctct gcattctggc taagatctgt gtatatcttt ttgctcttga 335460
aaccttgctc tgtcccgcca tggagtactc tctactggca gcagaataaa ataagcaaag 335520
tcattcggtta ttcacagaca cataaaactt tgtttttcat ttttaaagt cttttttttt 335580
tttgagcagt tttaggttca cagcaaaatt aagctgaagg gacaaagata tcccttatcc 335640
cacctaccct gacacatgca cagcctttt tattatcagc atcgtccacc acagtgggat 335700
gtttgtacat ttgttacagc tgatgaacag acattggcac atcattatta cccaaattcc 335760
ataatttaca ttatggttta ctcttggtgt tgttactgt atgaatttg acaaatgtat 335820
gatgatgtgt ttccaccatt atggtatcac atatagtgtt ttcctcagta tctatgggtg 335880
attggtttca gggcaacacc ctcccacccc gcccccccc acaaaccgt ggaagctcca 335940
gtcccattata taaaatggca tagtatttgc atataaccta cgcacatgct cccatataca 336000
ttaaatcatc tctagtttac ttacgatacc taattaatga cattgctatg taaataattg 336060
ttatactgta ttgtttaggg aataacaaga acaaaaaagg cagaacatgt tcagtataga 336120
tgcaaacatc atttttcccc cattattttc tatctgcagt tggttgatcc acagatatgg 336180
aacctagggg tatggagggc cgactgtgca gaatgttttt ttaatcattg gtaaatcacc 336240
aacattaaaa ctcatgtgtg cttattgcca tctaagtgtc ttgtttcaag aaggtattac 336300

agtccaagct gaaacaagtt atgggcagag ccatcaagaa ttcatTTaga ctgtaaactt 336360
ttaatgaccc acccaacctt ctaaccagtt tgtttccctt ttccaagtaa atattcttag 336420
tgtaggatag catttctccc catctttctt ctctctaagt aaaaatgccc gacgctatgg 336480
gcagtgccta gattgggcac attgccccgt cttggtgttt tcagcaacag ttcttagcct 336540
ggacttgcca ggacaggctg atgttggTca catgcccAac tcttctctcc aactcaagaa 336600
aacctcatgg aatgaaagtg agagggatgc cattctgagg actccttcag cttttccaac 336660
cttgtaaaac aaactcgtga gcattggTgc tttgttaata atattcgtgt tagaaacaat 336720
aatattttaca tagtattaaa aaccgtggta tttatggaac atttaataag tgctaggcat 336780
tgtctaattg gttttccttc atcatccctt ttaattctct caataatgct acagggtagt 336840
tactcttata gtaccaactt tacagaggag gaaacaactt acctgattat agaacgcacc 336900
attaccagac tgttgaacct gaactcagac ccaggccagc ttactgcaga acttctatta 336960
tcacccactt tgttatatcc gaacccctg cacagttgag cccacaggt gttactgtgc 337020
ttgtcctctt cttggtcctc acaggagcct gggTcatggg actgatgcct ctgcagcttc 337080
ataggcacag gcagcagggg atggaggtag agtagaagat ccctcagagg tattgccagg 337140
gtgggctggg gctcctgtgg taccataagg ggtgcctgta gctacatatg cctcagcctg 337200
aactcatact aaaaatgactc agtgacttta ttgagcatgt agtatgttcc aggaaccact 337260
atatgtacat tattccttgt tgcttttgtc agcaagagtg ctcatgtcat gaaaataaca 337320
aagtgaacat tttatttgta ttccttgGCC accaaattag atgagtgatt tatgttgggg 337380
agagctaaat gtctggcatg ggctgcaaca gaacatcaca aatttagatt gacatgttcc 337440
tgctgggtca aaagctgtga atgacccag taacctggga gaggcctata tagcaggaaC 337500
tgggagccag aggtcctcag ggtacaattc agatcccaa aaggtgacct gtggccttcg 337560
tggtgcagag tttggggccg ttgaataatg ccatatgcca ggctcttact gtgtcctggg 337620
ctcagtgcta aggttttagc cacataaata ttgcattgac tcttaaaaca atctacgagg 337680
tagatgctat gccatttta caaatgggag gaattgacac ttagcagggg tgaatgatgt 337740
ggcagtaaag cacagagctg gttagagcac aggtcttctt gggTccaagt ccctgtgctc 337800
cacctcctcc acccacagtg tcggagtTac agagcgggtg aaggatggTc cagtttttct 337860
cagcagccta gagcagggga gcagcccagg gttAagcagg tgtgactctt cgtgaagtgc 337920
atccctgttt cctgagcccc acttgctgtc agaaaccaag gtattgaggg cttagtgaga 337980
gtttttcacc atttctgtt gctttaggTc ctctgtttc cagttgattt ctctctattc 338040
cagggatctc ctcccttccc cagggtcaga gcaatacaca ctgaagtatt aatagtagtg 338100
atcagcgcct tcaagacagc aggacctcc tgttgccTtc tggccatggT gtgatgtccc 338160
agggcctgtg gtgcataagc aggtggaatc taagcactga ccctggTcat tctaaatata 338220
aggggaagag agaggactag gaaatctgga cagatgccaT tctctcttTc atggcaaagc 338280
cttgctcttc ggaatcctta tctgcattta aaatgtgtgg tcttcaatca ttgtgtcttg 338340
ggatgcttgg tatgtttaat tctatcacaA aaggcctctg gcttacttat taatgaatgt 338400
tgaaattaag ttggtctttt aaaaaagata caggagcaag aaaaaaatta acttagtctt 338460
cgtaaaacaa atatttgatg aatatttgta atctctccct aagtgttct agccacaggg 338520
gtgttaacct gcagagcttc ctagaaagag caccatgcaa acggccataa atcattggcc 338580
ctgaagaaaG aagattctct cttcttctgc ctctggaat gatgggaaat aattacagaa 338640

```

ttgggatgaa agaggaatta tattattctt gtgtcggcat atgtgctttt tattatgttt 338700
tgataggtct ttattgtctg atactggagg agcaaggga accagacatt actgtcagca 338760
tgtacatttc atgctagggt ttaccagaaa gaaatttagg atcgacagtt atctgaggcc 338820
tgctgtgtca gagcttgggg cttttatgtg agctatcaaa ttcagacctc accagtgtgt 338880
tctgaggaag cgtctctgcc tgtacttcac tggcaggacc cgcctgaggg agagtaaaca 338940
gcctcacagg ttagtccca cagctcatgt ctgaggccaa catagcagcc tgctctgcag 339000
ggttgccctc taccatgcga ctgactttcc acccggaata aataacttct gtgttagcgg 339060
acagtcatgt acatggtctc tcagaacaca caggaggtcc tttctaaaaa tcctatcttc 339120
acagcattag gatgattata actaacacat actgagttat tatatatcag gattagccta 339180
agcactttga ttttatttat ttatttattt atttatttat ttatttattt tattttgaga 339240
cagagtcttg ctctgtcacc caggccagag tacagtggcg atcttggtc actgcaacct 339300
ctgcctcctg ggttcaagtg attctcctgc ctcagcctcg tgagtagcag ggactacagg 339360
cacacaccat cagcctggc taatttttgt gtttttagta gagatggggg ttcacatgc 339420
tggccaggct ggtctcgaat tcctgagctt gtgatccgcc tgcctcagcc tcccaaagt 339480
ttagaattac aggcctgagc caccacgcc ggccagtact tttcttttat taaccattt 339540
aaacctcaca atatctctga ggttggttcc atcatttcgc tgattgtaca gatgagaaaa 339600
cggaggcatg aaaaggctaa actactcgtc ggtgtctcat agtctacaga gtcaattctg 339660
gtctcagaaa ttgcatttat tgaaagccta ccaagtatcc agatctttag ggggtataga 339720
agaagttaa ctagaatcta tttgcttggt tatttaatga attttttgt tgaaaagagt 339780
aaaatgacat gaaattggaa atgactgtga taaatgattt ccataatata aaaaattggt 339840
accaagtctt tctcatccct ttcattgcat ggtttcattc ttgcagttct ctttctatta 339900
ccttttttat ttccttaaga agacaaaagg gtagggaaac ctttaaagtg aggaaaatgt 339960
cagcttttta ataattgtcc tacttgctac ctctgtcttt gatgtctccc tgtggctctt 340020
ggtcacaatt cagagtgaga tgattggaga acatcttcag aaggcattag ctatgatcat 340080
cttgcacat tatcattact cagccctct gaccttgggc ctgtgtgttc atcttagggc 340140
acaggcctca aaaggacagg gtacatcagt gtttctagat gacctgattg acacttgatg 340200
cttgtctgcc ttgggctaaa gctcttagga ttccttatat ctctcttcc caccttatac 340260
ttgtttcacc caggagagag cctctgtcat gcctatcgtc tccttccctc ctgagggtc 340320
aatatctggt taaattacat gacataggaa ttggttacca tctattttgg ctatttccat 340380
acacattctg agaacaaaaat aaaagagctc ttctccatgc ccctctcatg atttcttccc 340440
atgccccgtt ttggggaagg caggccagtc aaagcagtga tggctttgat cagagcaacg 340500
agcagatcat gatttattat tgccagagta gacagtgggc tacattagag gactgcttag 340560
acacatgctt attctagaaa aggtgaagg aagaaagaac cacccttcc ctttctcttc 340620
tcatctccct tctgctggga gcaccaggt gccagtcc cacttctctc ccacaggga 340680
ttgcagctgt aaggtggcct cctggagctg cctaactctg ctttactga aaataagtg 340740
actgaatttt aaagtgaaa tcctctgcag tcatgtctcc accacagcct tcaaggtcac 340800
tcccactttt ttctagacac aaatggggtc atttttgtat ttctaattaa cactctccag 340860
acataaataa aattttaaat ttctcattac tatcagctgt ttccactatg ttttcatag 340920
attggaatgc agttttaaac agttaataaa atgctccagt acaagagcaa aacaagaagt 340980

```

taaaggacaa aatagaaaca gaagattttg atgtacttga aaattgatac gtatgttgctc 341040
tgtttctattt agattacaaa cttagagtac tgcatttgct tcagtaaatt tctttgtgac 341100
tgagtgtctgc tgcttacatt gtaattgggt ctgggtacaa atatacattg aacttatttt 341160
ccaaaaatac tctccttaga gtgtggcatg gcaggaaagc atactgttcc taatagtcct 341220
tccaaactcc tttaaaaact gacctttatg gcaagtttgt aatgaagatg taacactttc 341280
acttcttaaa ccatgacttc aatttgtgat ataattaagg gcaattactc ctgttagaga 341340
ttgtagactg ggtaggctg agctaataaa tagctgtttg gctctagcat tagcaaggat 341400
gtcttcatta gggtagtaat gtgtcaagag tgctaaatag gttgccatgg tatttgtggg 341460
tttcagcctg gactctggct ttcctgaaat taaaaatgtt cagcctttaa taaaaggcac 341520
ttccttacac agcaaaagcag acagaacact aaataagtga aatgaccagg gctcaggaac 341580
ttgattgcag aggctgatga atacagatgt ggatatttta aagtaagcat tgactctggc 341640
aggctttgtt aaaaaaaaaa aaaaaaagaa aaaagaaaa agaaaaggaa aaaaaaatg 341700
ttttagatct gtatgtcttc atttttccat tcattcatcc atccagaggg actattctcc 341760
agcacatgga aaagctgctg ctctgcttca gaaaacctg cccacactca ggaccagcta 341820
actcacaggg attaggtctt actcatcttt caaatccaca gagcctagca cacagcagat 341880
gttcaagaaa tgtttgctaa atgaatacat aaattctgct tacccttagg ccaaattggc 341940
caaagagtca gacattttgg cttatgattt tgtttagtgg cgacttccag tagtatctga 342000
agacagtgga ttgtcctcag atgctgtgac gaagccctgg aatggagaa tccgttggcc 342060
tgtctgtcta ggaacaaggc attgtggttg gattcactta tgtagtggtt ctcaaagtgt 342120
ccactggacc agcaggattc aaatactgaa tctactaaag atcctggatg acttatggga 342180
agttatatata tttccagaat tttacagtta aactatagtt ttaaaaaaga tgacagcata 342240
ctatagttct caaatacggt tttattgtga aaatgttggt ttcaagacct tgggggaaaa 342300
cacctaaaac ataagaccct gtttgtttat ctttgtccct gttacgctta tcgtttcgtg 342360
gaaatcttaa ttagcagaga agtgcaaaat agtcctggat cagatagggg aaggagccaa 342420
aagctgccac tccaaactgt ccagctcacc tgtgtgtgtt gtctgtgatt ttgatgaacg 342480
tgatggatga ttctgaacac agtatTTTTT ttttctctt cacatgagtt ctcaacgatc 342540
catagtccta aatgtctcct tagcaattga ggaatggggc ttgaaaaac tcttggaag 342600
acaagataaa agttaaaatt caaagcattt ctggccaaac ctgagttatt tgcaaaattt 342660
ggctaaagag gacatattat ttcttaggtg tcccgttaac attaaactca ttgcctagga 342720
aatagtggaa tattagttaa tgctatcaga ttatagatat taccattatg aaaaattcga 342780
aaattctggt ttttattagt aaataaaaa atgagcaaat aaaaacattc tgatgtttct 342840
agaatctaga tcctaattaa aggagtctca ttccagtctt atatgtgctt aagtttatgt 342900
ttttctttta taaaaacata catttaggca ttaaaactaa ccctaagtga gcaactggct 342960
gattattaat tcagaatata tgaaaagcat ttaccaagtt ggcctaattc gctccagtag 343020
tttgcacat aattaatttc ttgtcattaa tagaagtcca gatggctaatt tgattctgct 343080
ccttcttcta ggtttatttc aatctacaga ggaccagcc acacctacaa ggtccagaga 343140
ctgacggaat tcacatgcta ctcttcaga atccaggcag caagcgaggc tggggaaggg 343200
cccttctcag aaacctatac cttcagcaca accaaaagt tccccccac catcaaaggt 343260
gtgtagactg tgtattcttt catgctctct tgtgagagta aggaactgtt gggacttata 343320

gaaataagct cttttctgat gttaaata atgtcagcaa gatagaatca aaagaacatt 343380
ctaaagaaga ttgagcaatg ggttgtctag gggaaatgag agaccttgaa aggaaagggc 343440
ctacagaaaa tgacttttct ctgtatgtat gcgtgtttat caacaataat ggtagaaat 343500
aagggttaat tcctgggtgct gcagccctta agacagttaa ccaaggaagg catcacactc 343560
cctttcctag acgttcagag aagcagaggt tggcattgat ctttcagtga ctttggtgcc 343620
tagagactga cttaggcaac ttcagcagcc tttccctttt ggcacacagc tcttggtgtg 343680
gagcgatgcc tttggaaaagc ttagcagtg atctgctgta atctccttgg gtacttatgt 343740
tgaagtttgt ggggtgactac tttcctactc tggcccttc atgggattgg gtactgcaga 343800
agtcattgaga gccccacata tccagatctt ccccatgtc tcttgaggct agtgaacaaa 343860
agacactctg cctggaccct acttccactg ggtctgctga gccttcagcc tgttttctag 343920
ccacagagct atgcctgact gcagctaact tgcaaggcag gaaatagcaa caggagccat 343980
agcatgctca gcctgtccac ccagccactc ctggactcct gaggcctgc ctcattctct 344040
gcaataactg tggttcttgt ggaggtccct gcagcttgctc tttaaagggg acagacagca 344100
caagtggctt tatctagctg ttgctcaaaa taatcctaag gctgacagcg gggtaaagta 344160
caacctgcag aaaagatcct tgcataatgt tttgactctc tactcccaca tgaggaggtg 344220
tgtcagctac aaccagggca caaagtcaat tataggaact ctccaggacc tgggtcaagg 344280
tttggtcttg attctatgaa ccccatagct cttccagga ttagtttagg gtaaatacct 344340
tgctcctgct tccctgccct gaagactctt tggcagattc ttctttatgt gactaagaaa 344400
taagtatgaa tgtgcataca catgcatggc cttgccaggt cactttggca gtaaagcccc 344460
tggccctttg gtgcagcttt gcctttcagt tatcacacaa aagatgtctg agcacactgt 344520
ggctgctttg gtttgttagt actgaggaag ggtggctaga tttatcaatt atcccacttc 344580
agtggctctt ctagtatgaa ggagtactat cttgcctct aaagtgattc ttggtgggga 344640
tacattttac aaaaaataca atggcacatt gatagtgtt gcattctccg acccttctac 344700
ttcagaaggg cagttttccc actctgacac atgatcaggt tgtcttctc tctcttctc 344760
attcaggaaa ttattgtctt agctggagga ctgtttaatc tgataggctt cttatttag 344820
ttttttcata aaatgcttg aattttggcc aagtatttcc agcataggct ctttttttc 344880
ttcttcttctc ttcttcttc cttcttctt cttcttctt cctcttctc ttcttctct 344940
tctctctct cctcttctc ttcttcttct tcttcttct cttcttctc ttcttctct 345000
tcttcttcaa agcattatct ttctgaaaca gtgtcacaca gaattgcaag tagaaacaac 345060
tctctctaaa gaattagttg catgtaatta ggggttgaag tataaggggg ttcagacagg 345120
agatatacgt tctagttaca aaataggaaa atgtcatatt gaatcataga agttatgaaa 345180
atatttttta aatctagaat attttaagt cttactaca gactaatata atttagttta 345240
aatgagaatg aggagttcag taggtgaaaa ataaaatata tataaatata atttaatttt 345300
taaaggcttt cagtgtacc cattctccag gactggtctc acatgtcacc tgctcctcaa 345360
actttcctta gatccccacc cagatatgt ctttctctc cctggaaatt cccagtcttt 345420
tgtttgatc tctcattttt attctctgat gtttctttt gtatgcgtct cataccttgc 345480
tctcccttc cttcaactaa atcttaagtt tcttgaaaac agggtttacc ttgcctgttt 345540
ttgcatctcc cagaatacct agtacagggc ctaagccata gaggatactc agttgccata 345600
ggagaaaaaa agatgtgatc cacatcaagc tgttattcat gggataatgg gcaaaggatt 345660

tttcattaat ggcttttttag tcatggagta acttctcctt gcctaaaggg caccctgatg 345720
gttttatgag tggctgggta aataaactcc tctctcaggg caaacacagg cacaatcttg 345780
ctctctcgtg gattctcaca aatagtgtga aagtgttgac tattaacatg atactttgaa 345840
ttttgagctt ggatgtgtgg atttgtatgt cagcacctcg agtaacacag ttagaaggaa 345900
attcatgtga aattttatgg gagacggtac caccaatgaa aggtgaccct gttaactaca 345960
ttctacaggt attggttgga agagaatctg agtacaacaa ggtaagaacc agtgtacatg 346020
gcacatgtgc gactgagtgt ggctggctcc atgcctctgc tcattgctat gaatgactca 346080
gtgaactata tttttcttaa aatcaatgat agaaactgcc taacttgtac ttattacata 346140
attcttcaga atgtgtgaag cctagttttac atttcgtata tgggtggtatt catcttcaat 346200
tttcagttct caagcatatg ctctgtcttaa agagtgttaa agtgtttatt tgtatttgac 346260
atcgatgggtg aggtttgcat gtatcaaagt ctgtatgtaa ttgaaaacta aagtacctgt 346320
gattttacta tagaggggaa gtagtctctc tttttgttgt tgtagtatt gatcttttta 346380
aattattatt atactgtaaa ttctgggtata catgtgtaaa catgcagggt ttgttacatag 346440
gtatacttgt gccatgggtg tttgctgtgc ccatcaacct gtcactaca ttaggtatgt 346500
ctcctaattgc tatccctcac cttgaccccc acccctgtc aggccccagt gtgagatgtt 346560
ccccctcctg tgcccatatg ttcttggtgt tcaactccca cttgtaagtg agaacatgca 346620
gtgtttgggt ttctgttctt gtgttagttt gccagaata atggtttcca gttcatcca 346680
tgtccctgca aaggacatga actaattctt ttttatggct gcataatatt ccatgggtgt 346740
tatgtgccac atttgcttta tgcctaacat tgatgggcat ttatttggtt ttgttccaag 346800
tctttgctat tgtgaatagt gctgcagtaa acatatgtgt gcatgtgtct ttatagtaga 346860
atgatttata atcctttggg tatataacca gcaatgggat tgctgggtcaa atgggtatttc 346920
tggttctaga tccttgagga attaccacac tgtcttcac aatagttaaa ccaatttaca 346980
cgcccaccag cagtgtaaaa gtgttcctat ttctccacat cctctccagc atctgtgggt 347040
tcctgccttt ttaatgactg ccattataac tggcatgaga tggatatctca tagtgatttt 347100
gatttgcat tctccaatga caagtgtga tgagcttttt ttcatatgtt tgttgccgc 347160
ataaatgtct tcttttgaga agtgtctgtt catatccttt gccactttt taatgggggt 347220
gtttgttttt tccttgtaaa tttgtgtaag gtctttagat atgctgcata ttagcccttt 347280
gtcagatgga tagattacaa aaattttctc ccattctgta ggttgccctgt tcacttcgat 347340
gatagtttct ctccctgtgc agaagctctt tagcttactt agatcccat tgtaattttc 347400
gcttttggtt ccattgcttt tgggtgtttt gtcatgaagt ctttaccat gcctatgttc 347460
taaattggtat tgcctaagtt ttcttctagg gtttttatgg ttttaggtct tacattttaa 347520
tctttaatcc atcttgagtt aaatttgat aagtggtaag gaaggggtcc agtttcagtt 347580
ttctgcatat agctagccag ttttcccaac accatttatt aaataggga tcctttcccc 347640
atttcttggt tttgtcaggt ttgtcaaaga tcagagggtt gtagatgtgt ggtgttattt 347700
ctgagccctc tgttctgttc cattgggtct tatactgtgt ttggtaccag taccatgctg 347760
ttttagttac ttagtcatg taatatagtt tgaagtcagg tagcgtgat cctccagctt 347820
tgttctttta tgcttaggat tgtcttggt atacatgctc ttttctggt ccacatgaaa 347880
cttaaaatag ttatttctaa ttctgtgaag aaagtcagtg gtaacctgat gggaatagca 347940
ttgaatctat aaattacttt ggacagtat gccattttca tattgattct tcctatccat 348000

```

gagcatggaa tgttttccat ttgtttgtgt cctctcttat ttccttgagc agtgggtttgt 348060
agttctccct gaagaggctc ttcacatctc ccgtaagttg ttttcctagg tattttattc 348120
tctttgtagc agttgtgaat gggagtttgc tcatgattgg gctatttgtc tattattggc 348180
atataggaat ggttgtgatt ttgacacact gatttgggtat cctgagactt tgctgaagtt 348240
gcttatcagc ttaaggagtt ttgggactga gacaatggga ttttctaaat atacaatcat 348300
gtcatctagg ggaagtagtc ttaacctaac tactgaagcc tacattctgt ctaccttttt 348360
tgtagaagta atggaaggtt aaggagatg atgcataggc cctggaggcc tatgattcag 348420
aagctctaag tcatgcatgt caccctttaa tgtcaaagga atcacctggg aatctgttaa 348480
aatgcagatt ctgacctggt aggtcttcgg tggagattca ccctcccagg tgacactgac 348540
attgctgac catggaccgt aatttgagta gcaaggctct gtagatcaca taataaacc 348600
atgtaagaga gaatgcagtt ggaatatagc cagataagaa attagtttta tcatggttca 348660
tagcccttgt tgattcttaa ttcttccaaa gaagaatcag atcactgact ctgaaggatt 348720
tagatactct acaggcttcc ataatagtcc ctagaatgtg tttttgtcaa atcagagtat 348780
aaatattatg tattccatta ggaaagctga ggtgcattct tcatcagcac ttttagtagg 348840
ggcattcatt tataatcaaac ataaatgcca cctgttttct gaaacactag cataatttat 348900
aaaaaaaaa ctttgttcag ttccaaatac acaagtagaa aatcatttga ttcagagttt 348960
ccactaaatt gctcattggt gtttgctata tgataaagaa tattggcaaa taaaatgtgt 349020
ttaaaaataa aaggtaattt tggacatttt gctgtacttt gttatgatgt atccgaaaaa 349080
agattgaatt gttttaaaca aaaaacttta tcctaaatat gacatctacc agtgtcaatt 349140
aacatcagtg gatgatgtca ccaaagtctc catgattcct cttaaataag aacaaagaca 349200
ctatgggtcc ttttatTTTT gaatctcatt ttgtacaata tattccattt cagagtaaatt 349260
aacttacatg tgtaattggt tcattttacc agaaagatat gattggtttc agggctcttag 349320
ctcaaataga gagcagagaa tttattctgt tccatagcaa tgtgaaagta gttaaaatga 349380
ggtgttaaga aattttacaa catatcattt gatgctcaac gataattcat ttcccaacaa 349440
tacattgatc gcacatttgt tattgtattg taaaaatctt ttattctacg tgctgtgttt 349500
tccacgtgtt cttggaaaaa tgttctgctt ccaaagcac agtgcattgt gttttctgtt 349560
gaaaaaagca gcatcgtttg cttgatatct atacacatca ggcattgcca aactatagga 349620
gaatctattc agtaatttag attttattgg cagatggctc gttttgaatc tgttgtctgt 349680
ttaatgttac ctatttagac ccgtggccgt ataaatgcta atatactaat gcataatcat 349740
gtgtatgcca cagaatattt ttcttaatgt aaccagttat aaacaaaatg tttcttggtg 349800
taaacagatg aaagaaaaca cagtactgta cggcaggctc agtagatgag ggtaggcatt 349860
ctccacacgc ccatgtgctt cctgcattta ccaagaaatg attaaggaga atagtgttac 349920
atgaaaagcc acagttgagt cagggacaat ttgtactggt ttcttttttt ttcttggtact 349980
tctccctatt tagcaaacat taacttaaac atgatgtttt agtacttcat tcattgttct 350040
ggacatgagc tagggaatga aacatattta tgtgtgcaga acaatggtta aaataattat 350100
agttcaagga taacaggcaa caggctttga attcatagag gcaaagcaaa agaaaatgag 350160
aggtaattat tgctgtacat ccaccacagc ggagctacag gctcactgtg tatacctcaa 350220
ttatagcact aatcagacag gaccactaa tacatgggct tgtgttattc atttttattt 350280
ttccagtact ggcacatagt ttggcactca gtaaatgttt cctgcatgcg tgaaagacgc 350340

```

agtttcaaag caccagggtt atttatacct gcagtgggtga cgagagtaaa cttcagcata 350400
gaaagaaaaa aatctcccct aataggataa tatectcttc cccacgctc ttttttgttt 350460
ttgtttttgt ttttgttttt gttttttgga cacagtctca ctgtgtcgcc caggctgcag 350520
tgcagtggcg ccatctcagc tcaactgcaag ctccgcctcc cgggttcagg ccattctcct 350580
gcctcagcct cccgagtagg tgggactaca ggtgcccgc accatgcccg gctaattttt 350640
tgtattttta gtagagacgg gatttcaactg ttttagccag gatggtctcg atctcctaac 350700
cccgtgatcc gcccacctcg gcctcccaat gtgctgggat tacaggcgtg agacaccgag 350760
cccgccccct cccccaagct cttttttata ggcaacatat gacaagggcc atggcctttt 350820
ctgatgtttt gctgaagcat caactctaac tttgccttgg ttctaggtga ttccctttct 350880
gttgttcaag tgtcacgatg tgggccaagc agctgatttt aattattaat ctattaactt 350940
gaagtattaa attattactc acagttttac tcttcattag attgcatgca tatttggttt 351000
gccttttgcc atttaataaa cattccaagc acagcttttt ctccaggaag cttaaaactt 351060
cttttcaaac aggattaact gtaaagtatt ctttgaaaga acgaaaattg tgtctatatg 351120
catgtgactt cttattttgc acaagatatg gcatagacag tttcatgcat aataagaagt 351180
aaagcaaac aattcatatt catattcctg ttcaggcagc aataactttt acaagaagta 351240
ttgaatataa gcattgaaga caaggaaagg atcaacaaat tgtgagaaat tattacccat 351300
tggcagtcaa aatttatgaa aaattactga aattcttgggt gctcagattt gtttcataaa 351360
gaaaacctct gaagtatcta gaaatctata aagctccaca ttttaatttga tggatatttct 351420
gtatcaatat atttttatct tgtatcattc ttagaatata gtatcaaggc ctgcattgat 351480
tctacatggg atcacaaaaa gtaccacaag gaaagatctt ctcttgacca aagtatttta 351540
aagtcttggg agtctgcaac acatcctggc tggagcctcc tttttttttt tttttttttt 351600
ttttttgaga tggagtcttg ttctgtcacc caggctgtag tacagtggca tgatctcggc 351660
tcaactgcaac ctccacctcc cgggttcaag tgattctcct gtctcagctt cccaagtaga 351720
taggattaaa ggcacctgcc accatgccag gccaattttt gtatttttag tagacatggg 351780
atttcacat gttggccagg ctggctcttag actcctgacc tcaagtgatc cacctgcctc 351840
agcctctcaa aatgctggga ttacaggcat gagccaccac acccagccgg ctaattttatt 351900
tttgtgtttt tagtagagat ggcatttcac cttgttgccc aggctggtct caaactcctg 351960
acctcaagtg atccacccgc ctcaacctcc caaagtgcag ggattacagg cgtgaaccac 352020
catgactggc cccttcatca tgttttttta atgactttca actcatttcc ctaatacaga 352080
aattaaacaa tgaggctatg actgtctcat agcacagttt tttatttctg catgaataaa 352140
gggtcaaatt tagaacaaaag taaaaataga tcaagataga cctcttttaa agccatcatt 352200
tattttactg attcttagtt tgtttttagtt ttataggttc atttaagtat ctgaaggcta 352260
tgacctctta tatcagaaaa attcccatac atgtacccat acctctactt aaaatttcat 352320
gtgaaatgaa atgatagcca cttccatgga gtccaggtag aggaccctg gtttattgag 352380
aaactgtcag gtgttttaca ttgttaggga ttcttgggta gtccctctaag agtttatagg 352440
cccactgggt gaaaaccccc gggaagcagt tcagtaatcg tacccttgcc tgtcatattt 352500
ggctcaagga caaagttacc atagtcatgt aattctttag gaattaattc acctacctga 352560
gtcttggctt tctcattgta actctaactc cgatggttac tgtgagcatt agatcattca 352620
gtcatgagaa ggagctgtac agatgacaac atggtgcaat tatatctccc tttcagtcct 352680

tgggaggggt gacattagta aagagatgaa ggtaagcctc cagcagccga gcatgcaactg 352740
ttctcgccac ccttcccaaa aagcttcctg ttatttacag gatttcagct atgcagcatg 352800
ttattttgaa ttaagggtta tggattcttc atttcagttg tctgggtatt actttaaatc 352860
ctctcatttg gaataaacat gtcaagatta ctttaaaata tattgttcat caaatcaaga 352920
acagaaatag tctttgtaaa aataataatg cttctatact tattacaata ttatgattgg 352980
ttacttcaat aaaaaacatc tcaaatggag ccgtgccgtt taaattggat tgagtcaaaa 353040
ggaaaagccc ataatggtgc ctttgtcaaa atgaatgaaa acaaaggac acaaggcgtg 353100
gcctgctgcc ctgatgcgca gagctgcaca gtccctggggc aggcacagct gtatggcagg 353160
cctggcaaca tgggtgatttt tgtgacatca ttagttccta aatactgtgg gttgtaagtg 353220
tctgtggcca tgcctggaca ccaagtcagc atcatgaggc tccccttcg tttgacttct 353280
gcaagtccta tattttagg cccaagggt ccatggctcc aagcatttgt cctagagtgt 353340
tacacatgat tcctgcaagg ggggggggca gggaaagtac aataaagtag caatataata 353400
tgtcatgttg acatttctta gatgcctact gcattccaag ccccgctcta tgaggttgct 353460
acatgttata ccacttcata ttaatccgta atcccataat cacacgagtc tgttatcttc 353520
atgtgggggc ggggtatgtt tctcatctgc agaagttgt caccttcaag ggacaggtat 353580
tacaaagatg ttgagttaat tttcagttat ttggggttct taatcgtatc tggggctttt 353640
ggatctcata ttttagtttt aaaaccccat cagtttcatc agtttatagt taataacata 353700
ggtttacaag tgtaataact caaaaattta tttcatttag ttgtataaaa tatgattggc 353760
ttattcccca tgcaaccatt tagttaaaaa aattgagaca ttacatttca ttttaaagct 353820
cgtctttgtt actttctttg aacctgaaaa tccttaatct gttactctaa aaaaatcttc 353880
actgagatat gactggcctc accacactgg tctgtgtgaa tttgctggct ttttaaggaca 353940
ttatagtcac agccaagata gacaagctat gaagtatgtg tgctttcaca tttacatatt 354000
tatataacta gaagagtatt tgcaaagttt taatatttgg atcacttcaa aaactattag 354060
aacatattag aaaaactatt cacatgttgg ggggtggctca tgcctgtaat cccagcactt 354120
tgggaggccg aggcgggcag atcacaagat cgagagatag agaccatcct ggctaacaca 354180
gtgaaacccc gtctctacta aaaatacaaa aaaactagcc gggcgtgggtg gcgggcacct 354240
gtagtccag ctactcggga ggctgaggca ggagaatggc atgaaccag gaggcggagc 354300
ttgcagtgag caaagatcgc cccactgcac tccagcccgg gcgacaagag tgagactcct 354360
tctcaaaaaa aagaaaaaag aaaaactatt cacgtgcata aaatatacta gaaactccat 354420
attttctatc aatagactct attttttact gcacctatac caaactctct cttgccctta 354480
tggctctgtg gtgcatctga atgcttactg ttcacattta cttgtttctc ttttcaaaca 354540
ctgtggatc agaacgtcta ctctttgagt atttgagggt tctaattaga gaacattcac 354600
tgagcatcta ctttgttcaa gccattgtgc tggttgctgt ggagatatgg aaataataga 354660
acactgtctc actcaatata tttatcttaa atgtaaaaa gataatgtta acattgtgtt 354720
ggcaaggctt gtgaaagagg gaagctgttc ctattaaaat aacaagaata gctaaaagaa 354780
aaacatttac aaattaaaag ctaacttttg attaggttt tgtaaagaaa gttcccttca 354840
gttagctatt catattatct tactatgttt tttgccta at ggtacaagaa aagtaggatt 354900
cctttatctt taaaatacat tttcagatat cttccactct acaaagttaa agttgggaag 354960
tttcgttaaa attaatatat gaagtctttg ttcaagagtc tctaaattgg gtttctggga 355020

```

aattaaatat acgtttgggc tcactttttt tttttttttt aatcttacca gggtttgtct 355080
tgaactccta acctcaaatg atcctcccat tgagcccact ttttaaaaga gaatgtagcc 355140
atacaaatc tggaactgt agaaataatt aaaatagata taaatgtacc ttcattttca 355200
ctttccagaa gtctccaaaa catttgtggg gataggttat taagtggttt tgtacagcga 355260
cgtcattgtt tgatggcaga aattagaggc cacatcacia aaacactgtc caagtgttta 355320
gcgaaaactg atcagggagc tgctttcgat aacatcataa aagatagtgt tttcctttat 355380
gaagcagcag gagccatggt aggatgattt agaaggtctt tcatggaaat accagggagt 355440
tagccgcgag atatggaaaag acaaagtcag aggccatgaa acctggacac aatgtcacac 355500
tgtagtcatt agaagaggag taaagtggag gacaataatg gaacaggcag agctggggca 355560
atttcagtgg tgagggtcgg tgtttgagtt agaagtggga tctcatctgg gatccacaac 355620
tccccctatt tgctaaaaga ctttaagaaa ttaacagcct ctctgagcct tagtttcttc 355680
gtctctaaaa tgaaagtaat gatattttacc tgacagcgta attaagaaga ttaaattcaa 355740
taaagcagac ttacctcca gcattttcct tttacaaagc atattccaca tccgttttct 355800
cgattgatcc tcaatctcct ttggagtaat attactatta ggtactggtt ctagctctgt 355860
gttaaagatg agaaaaactaa ggcaaaaagc tgttacttgc atgagatcac agacctagta 355920
agtagcagag caaggactta gagtgaaatc ctgattccag tttctgtgct tgagaaatgt 355980
ctgcttaatg cttcctagtg ccaagtcaca ccagccagac ccagctcca ggattgcaca 356040
gagaaaaaga actcttaatg actacgttat ttgacccttt gataatcagg gtaaacaaat 356100
atttcaagag gtgtcacctg caaaagaatc aatgaaagaa gtatatcaga aaactttgct 356160
cagatgtcag cttttctcca acttgataaa catcccaaca ttaacttate accaccatag 356220
agtctcagaa taaattgtat acctgtgact ttgaagatag ggaaacaaa gccagatgg 356280
caaatgtgga aggacttgct ttatcaacct ggtatagtcc cagaggttgc aaattacccc 356340
cttcataaac agtttccaag aaaagcattc tatacttaag aaattaaata taaattaaga 356400
aaataaagaa cattcacaac taaaagctct gtttaaagaa aaaaaaatgg ctattgtttt 356460
cctgagaccc cccacatggt gggaagtaac ttacagagag gcagtttcct tgttgtgtag 356520
tctgaactct tgaatagctg gctgtgtatg gattggggca gtcaccataa cgatgggctc 356580
atcttcaaac attcatttag attcatcatt ggaactgtga gcagtgagaa aggaattgtc 356640
tctcaggact gcgaggggtt tgcttacagc tcttcttagt tgctgcagcc taggctattt 356700
gtaactcaaa acagctatgg cacatgccac aattttaaga aacaagataa ctcaccagga 356760
ggaatgtgct taaaatctta taaaaagaat aacaaaagca agataaatct ggaaaagtat 356820
aagtagtaag cagaattggt tgtctggagt ttagtcaata agcaaacata taataataag 356880
atgcttgaag taaagtttga aaatgaggga ggaatctctt taaaagggtg actaccaggt 356940
gaacattgga agcctggcct ctattccaaa tcataagatc cttttgctgt ctttcaatct 357000
ggaccaaca ctaaattcat gtccagtga cttgtattca ctaatggaat gtctgttttc 357060
ttggtggaag ttacacagt gggctttaga aacatgtagt agacacgttt atagattccc 357120
actaactaaa tagctggcaa gtttttcagg caaagttgaa tttgttgga attcatttct 357180
agggtatttg tattaatagg cagaattatt tggattgaat tcatcaataa aaagacatta 357240
agtaactgga tgaaattttt ctttttcttt cttttttttt tttttttttt gagacagagt 357300
gtcactctgt ctcccaggct agagtgcagt agcacaatct cggctcactg caacttcac 357360

```

```

ctcccagggtc caagtgattc tcctgcctca ggctcctgag tatctgagat taagtaatct 357420
gggattacag gcatatgcc a tccacacagg ctaattttta tttttttaat agagatgagg 357480
tttcatcatg ttggtcagac tggctctgaa ctctgactt caggtgatcc acccacctcg 357540
gcctcccaaa gtgctgggat tacaggcatg agccaccgtg cccagccatg aatttttttt 357600
tttaagaccc aacagtatgc tacctacaag ggtcacctca cttttaagga cacacataga 357660
ctgaaagtga aaggttggaa aaagattact ccatgcaa at agaaaccaga agaaagcagg 357720
gatagctaaa tttatatgag acaaaataga ctttaagtca aaaactataa aaaggacatt 357780
atataatgat aagagcatca attcctcaag aggatataat agttataaat atgtatgcac 357840
ccaacattga agcacctaaa tacataaaat attgaagaat ctgaaggagg ggataaattg 357900
caatataata atagtaggag actttcataa acattggact tgaacaaatt aataaacatt 357960
ggacttgaac aatactgtag accaaatggg cctaattgac gtttcatcca acagcaactg 358020
tatacacatc cttctcaatc atacatggaa cattctccag gatagatcaa atgttagggc 358080
acaacacaag cctcagcaaa ttttagaagc ctgaaattat atcaagtgtc ttttcagacc 358140
acagtgttaa gaaactagaa atcaatacca gaaggaattt tggaaaattc acaatacat 358200
ggaaataaaa aacatgcttc tgaacaacaa atgggtcaat gaagaaatta aatggaagtt 358260
taaaaatctt ttgaggcaaa tggaaataca acatattaaa atgtgtggga tatggctggg 358320
cgcggtggct cagcctgta atcccaacac tttgggaggc cgaggctggt ggatcacaag 358380
gtcaagagat caagaccatc ctggctaaca cggggaaacc tcgtctctac taaaaataca 358440
aaaaattagc cgggcgtggt gacgggcgcc agtagtccca gctactcggg agactgaggc 358500
aggagaatgg agtgaacccg ggaggtggag cttgcagtga gccaagattg tgccactgca 358560
ctccagcctg ggcgacagag caagactctg tctcnnnnnn nnnnnnnnnn nnnnnnnnnn 358620
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 358680
nnnnnnnnnn nnnnnnaaaaa aaaaaaaaaa aaaaaaaaag tatgggatac agcaaaagca 358740
gttctaaaag caaagtttaa acacctacat caaaaaggaa gagagatccc aacctaacat 358800
tatacctcac ggaactgcgg ggagggagaa actaagtcca aagtttagcag aaggaaagaa 358860
ataagatgga aacagaaata aacgaaggag actagaaaaa cagtacgaag atcaacaaaa 358920
ctaagagttg ttttctttga aaagagaaaa tcaacaaatc ttttagctaag ccaagaagac 358980
acaaaatcag ataccacaga aatacacagg aacatttgag actattagga ataaatatat 359040
gccaacaaat tggataacct agaagaaatg tataaatttc tagatgtata caacttacca 359100
acactgaaga aatagaaaaat ctaatagacc aatgggtgag gagatgaagt cagtaagttt 359160
tccatcaaaag aaaaccctag gacctgatgg cttcatggct gaactctacc aaatatatta 359220
ataactaata ccagtccttc tcagattctt tcaaaaaagt aatgaggag gaaatacttc 359280
cagactcttt tttgcaaggc cagcattatc ctcatacca aggcaggcaa ggacattaca 359340
aaaaataata ataataaatt acaggccaat atcctttatg aacatagatg taaaaatccc 359400
caatataata ctagcaaacc caattcaaca aattcaacaa cacattaaag gatcatccac 359460
catgatcaag taggatttat ccctgggatg caaggatgat tcagtgtacc caaatcgaca 359520
aatgtgatac atcattaaca gaatgaaagc caaaaacat ataattattt cattagatgc 359580
aaagaaagtg tttgacaaaa ttgacaagtt tattaaaata gtttgttgct gagttatttt 359640
tcagttctaa atatcaataa taataatagc taactcctac tgtgcactaa cttcatacca 359700

```

ggtgtgtttt aagcacctca caggtattaa ctcaagtcta ctcaagataga gttctgttaa 359760
ttttattttc ttttttaatt agccaaatct cttattgatt tggttttgtt tcagctattt 359820
tttctatcca ttgactctaa tataagccat aaatttttat gcaattttaa tctgattatc 359880
atttcctctt aagttttttg aggattgggtt tcatittgtct agaagaacct tgtgagacct 359940
tcttcctcta tccccgttca gagacttttg ttagtttcag tcaacaaaaa tgtgataatg 360000
tctaagtaaa ctgggtcattt tcaagtttct ataatagtaa gcctcttgat gattagtgtt 360060
aacaatatagg aagaaaaacat cccagattct taatagaaga aatcagattt gtcatacaga 360120
gatggaaaact caagacagac caccacatta tttaaatgtt agtttgtgat aaagtgggct 360180
acatccaaaa aaattcctca ggaaaaacat taggcatgcc agaaaactgg gagaaaatat 360240
tctcaacaca tataatctgtc taaggactta tatccagatc acatagcaag gccctgcaaa 360300
ttaataaaaag tcaagcaaat tgcaaatata agataggcaa aagacttgta catgctgttc 360360
tcagaagaag gtacatgaac aaccagtaag cacgtgaaaa gatgcgcagc atcttcaagc 360420
atcacagaaa tgcagtcgcg gtaccattca caccactag gatagctaaa acagaaaaga 360480
ctgacgatca gtgttgatga ggatgtgggtg cagctcagac tctcatgctg ttaatgggag 360540
tgcaaagggg tacaatctct tgggaaaact gtttcttgtg aagttaacta tagaactact 360600
ctatgaccca gcacttcctt gtatttaccg ggaaaaataa gttctcaaaa tttgaacaaa 360660
aacattcata gcattcttat taatagcatt tttattatac gaaacctcca agctggaaat 360720
aaccctaatg tccgctgaaa agaaaatgga ggaattgagg tatagtcata aggaactact 360780
gccgaatagc tcgataacat gagtgaatct cataggcgca agggagtgtg ttctgcgtga 360840
ttccatttat gtgaactcct agtacaagca aaattaacta cagaattaga agtcagaata 360900
gtgtctacct ctgtgggtgg aggtgggata tcttgagggg aggcgtttgt agtgtatcca 360960
gttgtcaaat aatcatcctg ctggaaaatt tccattttgt ttgctcagtt tttaatgtt 361020
tccattttta aatgttaact ttgttcttgg gacaaaaaac atagagctat ttgtgttatg 361080
acatcttttg atttatagtc taaatcagga gtccccaacc cccaggccgg ataccagtac 361140
tggtgagtggt cctgttagga accaggccac acagcaggaa gtgagtggtg agcaggagca 361200
ttgctgcctg agctccgcct cctgtcagat cagtaaggca ttagattccc ataggagcat 361260
gaaccctact gtgaactgtg tatacaaggg atctaggttg tgcgttcttt atgtggatct 361320
aacacctgat gacctgaggt ggaacaattt catttcgaaa cgaccccgct cgtggaaaaa 361380
ttggcctcca caaaaccagt cctgggtgcc caaaagggtg gggaccaccg acctaaatta 361440
taaaatttag cgagatgcat ctttactact taaaatgtga gctgcatttc tagtcagtgc 361500
cttgtctcct tctgtcaaaag tttgagtcac cggattttat attgtttcat tcaaaatgtg 361560
ttgggatacc ctttttatgg tgtgaatata gattgagaga aatacathtt tatatcattt 361620
ttgttatgaa agagtgaac tgaatgtaaa ccaagagtga atggagtga tctaaaccaa 361680
gattattcta gagacaacag tgtcgtata aattaattaa ctagaactct ttcttttctt 361740
gaaggtgtac aagggagaag aagccacatt ccaaatctca ggcctccaga ccaacacaga 361800
ctacaggttc cgtgtatgtg catgtcgtcg ctgttttagac acctctcagg agctaagtgg 361860
agccttcagc ccctctgcgg cttttgtatt acaacgaagt gaggtcatgc ttacagggga 361920
catggggagc ttagatgatc ccaaaatgaa gagcatgatg cctactgatg aacagtttgc 361980
agccatcatt gtgcttggct ttgcaacttt gtccatttta tttgccttta tattacagta 362040

cttcttaatg aagtaaacc aacaaaacta gaggtatgaa ttaatgctac acattttaat 362100
acacacatatt attcagatac tccccttttt aaagcccttt tgttctttga tttatatact 362160
ctgtttttaca gatttagcta gaaaaaaatt gtcagtgttt tgggtgcacct ttttgaaatg 362220
caaaactagg aagagggttaa actggatttt tttttaaaaa aaaaaaaaag aaagaaaaaa 362280
gaaaaagaaa aaaaaaaaaa gaagaaaagc ataccagata ccaaaagcta gctttcttat 362340
gttttccttt aaattttcag atttaccttc attctgtttt cactgatgtc ttttgcaagc 362400
ctttgatttt gttttttttt tgttacagtt tagtaattta tattcaccag tcacttctta 362460
tgtctcgatc atctatatct gtaaacaatga atcacctgt gtgtacttac agggctagga 362520
tttcagtgtt gtcagagtat taccacacag caacagcaac atacaaaaga tatgttcact 362580
cagataagac tgccctaaac aaccattttg tcaactagtt atttaactgt gtttagctca 362640
tttaaatacaa aatgtgtact ttaatctaaa atgttttaat aatctgtatt tcttataatt 362700
ttaacactat gagctgcctg tataagaaat caagtaagca gaatgcacct ataaattatg 362760
gagcattgta gattttacca catcaattca tagcagtaac ttttaagagg cattgtgcaa 362820
tagttagttg ttttcttggt cagctatttt aaaggctgct ttaacttggt tgtttgtctt 362880
tgtatataac tacttctaact cactagagtt attatattct gttatgtttg accagaatta 362940
tatgacaaga actggcgaca gtttagtgcc tctgcccatt gtccatgatt tacactaatt 363000
gtgagcagtc ttcttatgtg tcagctcatt atttttgaag catttgccct taggctgttc 363060
tttgaggat caatgaagt attgaatttc aataccttaa ttcagtgcac ataatactaa 363120
tgtaaccgca gatgaaaatt gataaaacc aaaagagagt catctaaatt tgtagttcct 363180
atttctgtgg ggttgccctg ccatggttg agagggaat gtgtttgatg gtaaacacag 363240
gggtgttggt aatcaaagag cctagattct ttccctggat ctgtcactaa cttgctgcgt 363300
gacctgaaca cgtcacttta cctctctgtg cctcagtttt cccatgcatg aaaaataaaa 363360
taaaaataaa atggggattc ttatgtttgt aagtgccttg agatatttga ccaacaggtg 363420
ctattggagt gcaaagtgtt actcttatgt gtttattttg agtcatgaga taatcaattt 363480
taacccaaag tcattggatt atttatatga agtcataat gttcgagtac ctcagggaca 363540
tttaagagtt ggagggtcaa atatatcca aaagggtgca acagacacag tgtatcccc 363600
tgcttctgtt tttgtatatt tttgctactt gttttttctt gatcatagct attttgtgct 363660
tggtctttgt tgtctaagat gcagtatcct gtactagctt ataataattcc cataccaaag 363720
tcatggggaa accaacatta ttttgttttt gttttattta tactatattc tgcatacagt 363780
actttaaatg ccaattacag tgcaatcttt atttattgta aaaaattttt aaatgtactt 363840
atgtactaat tttcccttgt agcatgttat atttttgtgt tttatacttt tgtaatttta 363900
ggtcagtctt gttccttgge aacatctgta gtattattaa tcttctgaca ttttcttggt 363960
tttttaaaaa gataagagca tctagtgcac taaatgcca aaaaaaaaaa aagaaatcca 364020
ttatcagtga ttgaaacgtt tacatgtacc ccaaaacat aatcatctct tggaagaaaa 364080
tgctgagatc aatgaattat tctgtgtgcc tatattgatg tagtgagtac tagagagttc 364140
tgtgtttttt attattgact ataataagta gtttaattag ctttgcaaac tgatggcatc 364200
gaggtaaata tatttctgcc aaagtcttg ccttccaaaa ctcaccccc tgtttaaaaa 364260
tgtgtgtgta cccactgtga cacagcatgt gcatcttcta aaaaattcca cgcaggtgtt 364320
tcggggagag gtatttttta agcaatgcaa attcaactga gtacaaagcc ccctctcggg 364380

gggttgggga agtctctttt ttgaaacact tcagaactgc tgctataaag aaattctctg 364440
aattgggtga atttttttta agtaaatagt actttaggcc aaaatctata tgaatatttg 364500
atcttcttga gattttcata ctatcattta accaccagga agctgaagtg tgtgaaatac 364560
aaagctgaca gcactttatt ttattgctct ccattatttg gtattcatta tattccttca 364620
gtcagaaaaat tattactctc tatggcactg ttttctatca caaatatgta tatgtgatat 364680
tgatatataa ctatatatat tgccattaca cacgaacaat aaaataaagt gttctattaa 364740
cctgatctct ttgccctttt gctatgtgag gagtgaatga gtggccttct gatgctctga 364800
ctcttctctg tatgtcaaac tcatccctgg cacaagaaat tccagtcatg tgaagcaaac 364860
tgccctttgt cctcaaagaa attgttgaaa aagaacactt tttaaagaga ctttctgcat 364920
attctctgcc ttgttcttat caactttaaa tgttggcatt ttctaacctt gttttgttgg 364980
ctacagtaat tcagtattca tgtcaaaaat tgagaagtgc cctaattgaa tgtgtttgaa 365040
tgttatcctt gcacaattct ttaaattgaa agataaaatg ttttacctca ctgttggaca 365100
tacattccaa gcttttcaac tctaggagaa aaagaaaatc atgttttctt gtattgtaaa 365160
ttttagacta tttcatatac attgtattaa aactgccata tcaattttaa tgtatagatt 365220
ttgcaaatac tatgctatat gtaataccta actgtatctg tagtgtatat gtaatatatt 365280
tatgcccaat aaatgtttta attctttctg acttaa 365316

<210> 9

<211> 300

<212> DNA

<213> 人工序列

<220>

<223> 靶位点序列

<400> 9

catgtcgta tgcaaccacc accactagca aattctagaa catcggcatt gtgtaaccac 60
caccactagc aaattctaga acatcggcatt tgtgtaacca ccaccactag caaattctag 120
aacatcgga ttgtgtaacc accaccacta gcaaattcta gaacatcgga attgtgtaac 180
caccaccact agcaaattct agaacatcgg cattgtgtaa ccaccaccac tagcaaattc 240
tagaacatcg gcattgtgta accaccacca ctagcaaatt ctagaacatt tttgtccctt 300

<210> 10

<211> 82

<212> DNA

<213> 人工序列

<220>

<223> 靶位点序列

<400> 10

agcaaattct agaacatcgg cattgtgtaa ccaccaccac tagcaaattc tagaacatcg 60
gcattgtgta accaccacca ct 82

<210> 11

<211> 20

<212> DNA
<213> 人工序列
<220>
<223> 寡核苷酸基序
<400> 11
gaatttgcta gtggtggtgg 20
<210> 12
<211> 14
<212> DNA
<213> 人工序列
<220>
<223> 寡核苷酸基序
<400> 12
gctagtgggtg gtgg 14
<210> 13
<211> 18
<212> DNA
<213> 人工序列
<220>
<223> 寡核苷酸基序
<400> 13
aatttgctag tgggtggtg 18
<210> 14
<211> 16
<212> DNA
<213> 人工序列
<220>
<223> 寡核苷酸基序
<400> 14
atttgctagt ggtggt 16
<210> 15
<211> 20
<212> DNA
<213> 人工序列
<220>
<223> 寡核苷酸基序
<400> 15
ttatttctac agtttccaga 20
<210> 16

<211> 18
<212> DNA
<213> 人工序列
<220>
<223> 寡核苷酸基序
<400> 16
atttctacag tttccaga 18
<210> 17
<211> 14
<212> DNA
<213> 人工序列
<220>
<223> 寡核苷酸基序
<400> 17
ctacagtttc caga 14
<210> 18
<211> 16
<212> DNA
<213> 人工序列
<220>
<223> 寡核苷酸基序
<400> 18
atttctacag tttcca 16
<210> 19
<211> 30
<212> DNA
<213> 人工序列
<220>
<223> 靶位点序列
<400> 19
aaccaccacc actagcaaatt tctagaacat 30
<210> 20
<211> 20
<212> DNA
<213> 人工序列
<220>
<223> 靶位点序列
<400> 20
ccaccaccac tagcaaattc 20