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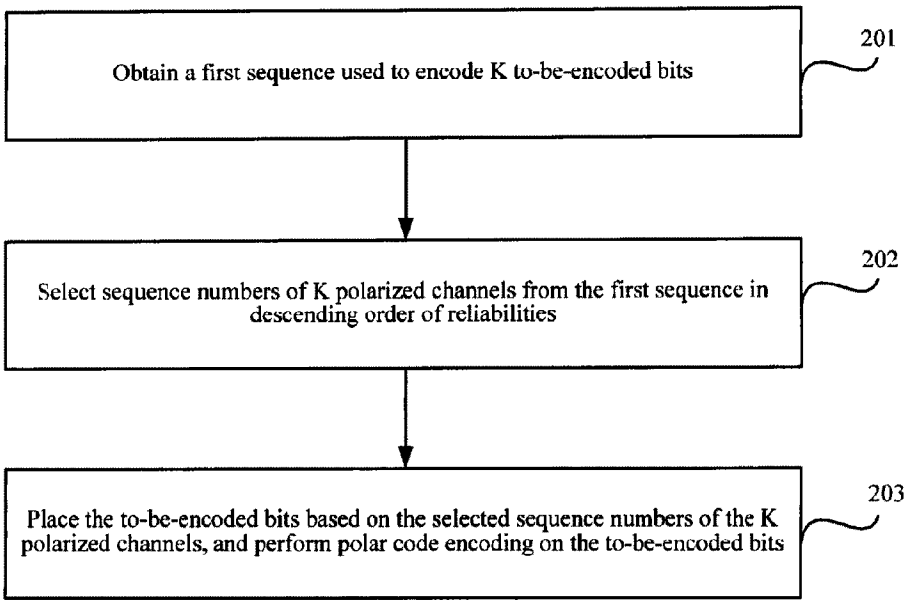

(57) Abrégé/Abstract:
This application relates to the field of communications technologies, and discloses a polar code encoding method and apparatus, to improve accuracy of reliability ordering for polarized channels. The method includes: obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes , $N = 2^n$, n is a positive integer, and $K \leq N$; wherein, the first sequence is a subset of a second sequence, the second sequence comprises N_{max} bit indexes, the N_{max} bit indexes are arranged in the second sequence based on reliability of the N_{max} bit indexes, $N \geq 64$. N_{max} is a positive integer, $N \leq N_{max}$; selecting K bit indexes from the first sequence based on a reliability; placing the to-be-encoded bits based on the selected K bit indexes; and performing polar code encoding on the to-be-encoded bits.

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ABSTRACT

This application relates to the field of communications technologies, and discloses a polar code encoding method and apparatus, to improve accuracy of reliability ordering for polarized channels. The method includes: obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes , $N = 2^n$, n is a positive integer, and $K \leq N$; wherein, the first sequence is a subset of a second sequence, the second sequence comprises N_{max} bit indexes, the N_{max} bit indexes are arranged in the second sequence based on reliability of the N_{max} bit indexes, $N \geq 64$, N_{max} is a positive integer, $N \leq N_{max}$; selecting K bit indexes from the first sequence based on a reliability; placing the to-be-encoded bits based on the selected K bit indexes; and performing polar code encoding on the to-be-encoded bits.

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POLAR CODE ENCODING METHOD AND APPARATUS

TECHNICAL FIELD

[0001] Embodiments of this application relate to the field of communications technologies, and in particular, to a polar code encoding method and apparatus.

BACKGROUND

[0002] As the most fundamental wireless access technology, channel coding plays a key role in ensuring reliable transmission of data. In an existing wireless communications system, channel coding is usually performed by using a turbo code, a low-density parity-check (low-density parity-check, LDPC) code, and a polar (Polar) code. The turbo code cannot support information transmission at an excessively low or excessively high bit rate. For medium/short packet transmission, due to encoding/decoding characteristics of the turbo code and the LDPC code, it is very difficult for the turbo code and the LDPC code to achieve ideal performance in a case of a limited code length. In terms of implementation, the turbo code and the LDPC code have relatively high computational complexity in an encoding/decoding implementation process. The polar code is a good code that has been theoretically proved to be able to achieve the Shannon capacity and has relatively low encoding/decoding complexity, and therefore is more widely applied.

[0003] However, with rapid evolution of wireless communications systems, future communications systems such as 5th generation (5th generation, 5G) communications systems will have some new characteristics. For example, three most typical communication scenarios include enhanced mobile broadband (enhanced mobile broadband, eMBB), massive machine type communications (massive machine type communication, mMTC), and ultra-reliable and low-latency communications (ultra reliable low latency communications, URLLC). The communications scenarios have higher requirements on encoding/decoding performance of the polar code.

[0004] Reliability ordering for polarized channels plays a key role in the encoding/decoding performance of the polar code. However, at present, accuracy of reliability ordering for polarized channels is not desirable, hindering further improvement of the encoding/decoding performance of the polar code during application.

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SUMMARY

[0005] Embodiments of this application provide a polar code encoding method and apparatus, to improve accuracy of reliability ordering for polarized channels.

[0006] Specific technical solutions provided in the embodiments of this application are as follows:

[0007] According to a first aspect, a polar code encoding method is provided. The method includes: obtaining, by an encoding apparatus, to-be-encoded bits, where a length of the to-be-encoded bits is K, and K is a positive integer; obtaining a sequence used to encode the K to-be-encoded bits, where the sequence is denoted as a first sequence, the first sequence is used to represent an order of reliability of N polarized channels, the first sequence includes sequence numbers of the N polarized channels, the sequence numbers of the N polarized channels are arranged in the first sequence based on the reliability of the N polarized channels, N is a mother code length of a polar code, N is a positive integer power of 2, and $K \leq N$; selecting, in descending order of the reliability, the first K sequence numbers whose reliability rank relatively high in the first sequence; and mapping to-be-encoded information bits to polarized channels corresponding to the first K sequence numbers, and performing polar code encoding on the to-be-encoded bits. Therefore, positions of the information bits and fixed bits are determined by calculating reliability of polarized channels of a polar code without considering a channel parameter and a bit rate. In this way, computational complexity of polar code encoding may be reduced.

[0008] In a possible design, the first sequence is all of or a subset of a second sequence, where the second sequence includes sequence numbers of N_{max} polarized channels, the sequence numbers of the N_{max} polarized channels are arranged in the second sequence based on reliability of the N_{max} polarized channels, N_{max} is a positive integer, $N_{max} \geq N$, and an order in which the sequence numbers of the polarized channels in the first sequence are arranged is consistent with an order in which sequence numbers less than N in the sequence numbers of the polarized channels in the second sequence are arranged.

[0009] In a possible design, the second sequence may be part or all of any sequence shown in Sequence Q1 to Sequence Q30 in the specification, the sequence numbers of the N polarized channels in the second sequence are arranged in ascending order of the reliability of the N polarized channels, and a minimum value of the sequence number of the polarized channel is 0.

[0010] In a possible design, the second sequence is part or all of any sequence shown in Table Q1 to Table Q30 in the specification the sequence numbers of the N polarized channels in the second sequence are arranged in ascending order of the reliability of the N polarized channels, and a minimum value of the sequence number of the polarized channel is 0.

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[0011] In a possible design, the second sequence may be part or all of any sequence shown in Sequence Z1 to Sequence Z30 in the specification, each of the sequence numbers of the N polarized channels in the second sequence corresponds to the order of the reliability of the sequence number in the entire sequence, and a minimum value of the sequence number of the polarized channel is 0.

[0012] In a possible design, the second sequence is part or all of any sequence shown in Table Z1 to Table Z30 in the specification, each of the sequence numbers of the N polarized channels in the second sequence corresponds to the order of the reliability of the sequence number in the entire sequence, and a minimum value of the sequence number of the polarized channel is 0.

[0013] According to a second aspect, a polar code encoding apparatus is provided. The apparatus has a function of implementing the method according to any one of the first aspect and the possible designs of the first aspect. The function may be implemented by using hardware, or may be implemented by using hardware to execute corresponding software. The hardware or the software includes one or more modules corresponding to the foregoing function.

[0014] In a possible design, when part or all of the function is implemented by using hardware, the polar code encoding apparatus includes: an input interface circuit, configured to obtain to-be-encoded bits; a logic circuit, configured to perform the method according to any one of the first aspect and the possible designs of the first aspect; and an output interface circuit, configured to output a bit sequence after encoding.

[0015] Optionally, the polar code encoding apparatus may be a chip or an integrated circuit.

[0016] In a possible design, when part or all of the function is implemented by using software, the polar code encoding apparatus includes: a memory, configured to store a program; and a processor, configured to execute the program stored in the memory. When the program is executed, the polar code encoding apparatus may implement the method according to any one of the first aspect and the possible designs of the first aspect.

[0017] Optionally, the memory may be a physically independent unit. Alternatively, the memory is integrated with a processor.

[0018] In a possible design, when part or all of the function is implemented by using software, the polar code encoding apparatus includes a processor. The memory configured to store the program is located outside the encoding apparatus. The processor is connected to the memory by using a circuit/wire and is configured to read and execute the program stored in the memory.

[0019] According to a third aspect, a communications system is provided. The communications system includes a network device and a terminal. The network device or the terminal may perform the method according to any one of the first aspect and the possible designs of the first aspect.

[0020] According to a fourth aspect, a computer storage medium storing a computer program is

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provided. The computer program includes an instruction used to perform the method according to any one of the first aspect and the possible designs of the first aspect.

[0021] According to a fifth aspect, a computer program product including an instruction is provided. When run on a computer, the instruction causes the computer to perform the methods according to the foregoing aspects.

[0022] According to a sixth aspect, a wireless device is provided. The wireless device includes an encoding apparatus configured to implement the method described in any one of the first aspect and the possible designs of the first aspect, a modulator, and a transceiver, where

the modulator is configured to modulate a bit sequence after encoding, to obtain a modulated sequence; and

the transceiver is configured to send the modulated sequence.

[0023] In a possible design, the wireless device is a terminal or a network device.

BRIEF DESCRIPTION OF DRAWINGS

[0024] FIG. 1 is a schematic architectural diagram of a communications system applied in an embodiment of this application;

[0025] FIG. 2 is a schematic flowchart of a polar code encoding method according to an embodiment of this application;

[0026] FIG. 3 is a first schematic structural diagram of a polar code encoding apparatus according to an embodiment of this application;

[0027] FIG. 4 is a second schematic structural diagram of a polar code encoding apparatus according to an embodiment of this application;

[0028] FIG. 5 is a third schematic structural diagram of a polar code encoding apparatus according to an embodiment of this application; and

[0029] FIG. 6 is a fourth schematic structural diagram of a polar code encoding apparatus according to an embodiment of this application.

DESCRIPTION OF EMBODIMENTS

[0030] The following describes in detail the embodiments of this application with reference to accompanying drawings.

[0031] The embodiments of this application provide a polar code encoding method and apparatus. A reliability order is obtained based on reliability of polarized channels, sequence numbers of

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polarized channels used to send information bits are selected based on the reliability order, and polar code encoding is performed based on the sequence numbers selected for the information bits. In the embodiments of this application, a reliability of each subchannel of a polar code can be calculated more accurately. The encoding method and apparatus provided in the embodiments of the present invention are described below in detail with reference to the accompanying drawings.

[0032] To facilitate understanding of the embodiments of this application, the following describes the polar code briefly.

[0033] In an encoding scheme of the polar code, a noiseless channel is used to transmit information useful for a user, and a pure noisy channel is used to transmit agreed information or is not used to transmit information. The polar code is a linear block code, with its encoding matrix being G_N and its encoding process being $x_1^N = u_1^N G_N$, where $u_1^N = (u_1, u_2, \ldots, u_N)$ is a binary row vector having a length of N (that is, code length), G_N is an $N \times N$ matrix, and $G_N = F_2^{\otimes(\log_2(N))}$. $F_2^{\otimes(\log_2(N))}$ is defined as a Kronecker (Kronecker) product of $\log_2 N$ matrices F_2. The foregoing matrix $F_2 = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$.

[0034] In the encoding process of the polar code, some bits in u_1^N are used to carry information and are referred to as an information bit set, and an index set of the bits is denoted as A. Other bits are set to fixed values pre-agreed on by a receive end and a transmit end and are referred to as a fixed bit set or a frozen bit set (frozen bits), and an index set of the other bits is represented by a complementary set A^c of A. The encoding process of the polar code is equivalent to $x_1^N = u_A G_N(A) \oplus u_{A^c} G_N(A^C)$, where $G_N(A)$ is a sub-matrix obtained from rows that correspond to the indexes in the set A in G_N, and $G_N(A^C)$ is a sub-matrix obtained from rows that correspond to the indexes in the set A^c in G_N. u_A is the information bit set in u_1^N, and includes K information bits. Usually, various check bits including but not limited to a cyclic redundancy check (Cyclic Redundancy Check, CRC for short) bit and a parity check (Parity Check, PC for short) bit are also included in the information bit set. u_{A^C} is the fixed bit set in u_1^N, and includes N - K fixed bits, which are known bits. The fixed bits are usually set to 0. However, the fixed bits may be set arbitrarily provided that the receive end and the transmit end pre-agree. Therefore, an encoding output of the polar code may be simplified to: $x_1^N = u_A G_N(A)$. Herein, u_A is an information bit set in u_1^N, and

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u_A is a row vector of a length K, that is, $|A| = K$, where $|\cdot|$ represents a quantity of elements in a set, and K is a size of an information block; $G_N(A)$ is a sub-matrix obtained by using rows that correspond to the indexes in the set A in the matrix G_N, and $G_N(A)$ is a $K \times N$ matrix.

[0035] A process of constructing the polar code, that is, a process of selecting the set A, determines performance of the polar code. Usually, the process of constructing the polar code is: determining, based on a mother code length N, that there are a total of N polarized channels that respectively correspond to N rows of the encoding matrix, calculating reliability of the polarized channels, and using indexes of the first K polarized channels having relatively high reliability as elements of the set A, and indexes that correspond to the remaining N–K polarized channels are used as elements of the index set A^c of the fixed bits. The set A determines positions of the information bits, and the set A^c determines positions of the fixed bits. A sequence number of a polarized channel is an index of the position of an information bit or a fixed bit, that is, an index of a position in u_1^N.

[0036] The solutions provided in the embodiments of this application relate to how to determine reliability of a polarized channel. A basic invention idea of the embodiments of this application is that reliability of the polarized channel may be represented by using a reliability. From a perspective of spectral analysis of signals, an approximation of an existing reliability to the polarized channel reliability may be understood as domain transform of a signal. Similar to Fourier transform in which transformation between a time domain and a frequency domain of a signal is implemented by using a kernel e^{jw}, in this method, a signal is transformed from a channel sequence number domain to a reliability weight domain by using a β kernel. In the signal time-frequency analysis field, Fourier transform and wavelet transform are most commonly used. For the Fourier transform, limited by a form of the trigonometric function kernel e^{jw}, high time domain resolution and high frequency domain resolution cannot be achieved at the same time in a signal time-frequency analysis process. For the wavelet transform, because a wavelet kernel is used and there are various forms of functions, an instantaneous change of a signal in time domain can be captured when domain transform is performed, so that both high time domain resolution and high frequency domain resolution can be achieved. In the embodiments of this application, the polarized channel reliability is estimated by using a changeable transform kernel, so that accuracy of sequence reliability estimation is improved.

[0037] FIG. 1 is a schematic structural diagram of a wireless communications network according to an embodiment of the present invention. FIG. 1 is merely an example. Other wireless networks to which the encoding method or apparatus of the embodiments of the present invention can be applied

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shall all fall within the protection scope of the present invention.

[0038] As shown in FIG. 1, a wireless communications network 100 includes a network device 110 and a terminal 112. When the wireless communications network 100 includes a core network 102, the network device 110 may further be connected to the core network 102. The network device 110 may further communicate with an IP network 104, for example, an Internet (internet), a private IP network, or another data network. The network device provides a service for a terminal within coverage of the network device. For example, as shown in FIG. 1, the network device 110 provides wireless access for one or more terminals 112 within coverage of the network device 110. In addition, there may be an overlapping area between coverage of network devices, for example, the network device 110 and a network device 120. The network devices may further communicate with each other, for example, the network device 110 may communicate with the network device 120.

[0039] The foregoing network device may be a device configured to communicate with a terminal device. For example, the network device may be a base transceiver station (Base Transceiver Station, BTS) in a GSM system or a CDMA system, or may be a NodeB (NodeB, NB) in a WCDMA system, or may further be an evolved NodeB (Evolved Node B, eNB or eNodeB) in an LTE system or a network side device in a future 5G network. Alternatively, the network device may be a relay station, an access point, an in-vehicle device, or the like. In a device to device (Device to Device, D2D) communications system, the network device may alternatively be a terminal that plays a role of a base station.

[0040] The foregoing terminal may refer to user equipment (User Equipment, UE), an access terminal, a user unit, a mobile station, a remote station, a remote terminal, a mobile device, a user terminal, a wireless communications device, a user agent, or a user apparatus. The access terminal may be a cellular phone, a cordless phone, a Session Initiation Protocol (Session Initiation Protocol, SIP) phone, a wireless local loop (Wireless Local Loop, WLL) station, a personal digital assistant (Personal Digital Assistant, PDA), a handheld device having a wireless communication function, a computing device, another processing device connected to a wireless modem, an in-vehicle device, a wearable device, a terminal device in a future 5G network, or the like. Based on a communications system architecture shown in FIG. 1, in this embodiment of this application, the polar code encoding method may be executed by the foregoing network device or terminal. The polar code encoding method may be used when the network device or the terminal serves as a transmit end to send data or information. Correspondingly, when the network device or the terminal serves as a receive end to receive data or information, a subchannel sequence needs to be determined first based on the method of the present invention. The following describes in detail the polar code encoding method provided in the embodiments of this application.

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[0041] Based on the communications system architecture shown in FIG. 1, as shown in FIG. 2, a specific procedure of a polar code encoding method provided in an embodiment of this application is as follows.

[0042] Step 201. Obtain a first sequence used to encode K to-be-encoded bits.

[0043] The first sequence includes sequence numbers of N polarized channels, the sequence numbers of the N polarized channels are arranged in the first sequence based on reliability of the N polarized channels, K is a positive integer, N is a mother code length of a polar code, and N is a positive integer power of 2.

[0044] Step 202. Sequence numbers of K polarized channels are selected from the first sequence in descending order of reliability.

[0045] Step 203. Place the to-be-encoded bits based on the selected sequence numbers of the K polarized channels, and perform polar code encoding on the to-be-encoded bits.

[0046] The K to-be-encoded bits are mapped to the K polarized channels in the N polarized channels. The reliability of the K polarized channels are higher than reliability of the remaining N–K polarized channels.

[0047] Optionally, the first sequence is all of or a subset of a second sequence, the second sequence includes sequence numbers of N_{max} polarized channels, the sequence numbers of the N_{max} polarized channels are arranged in the second sequence based on reliability of the N_{max} polarized channels, that is, an order in which the sequence numbers of the polarized channels in the first sequence are arranged is consistent with an order in which sequence numbers less than N in the sequence numbers of the polarized channels in the second sequence are arranged. N_{max} may be a positive integer power of 2 or may not be a positive integer power of 2, and $N_{max} \geq N$. A manner for calculating the reliability of the N_{max} polarized channels is similar to that for calculating the reliability of the N polarized channels. The arrangement based on the reliability herein may be arrangement performed in ascending order of the reliability, or may be arrangement performed in descending order of the reliability. Alternatively, the sequence numbers of the polarized channels are grouped into two or more groups, and the sequence numbers in each group are arranged in descending order or ascending order of the reliability. A specific grouping manner may be grouping based on values of sequence numbers of polarized channels or grouping based on congruential sequence numbers (for example, three groups are divided, and sequence numbers that are congruent modulo 3 are grouped into one group). This is not specifically limited herein.

[0048] Optionally, rate matching is performed, based on a target code length, on a sequence obtained after the polar code encoding.

[0049] According to the encoding method provided in this embodiment, after input information

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bits are received, a quantity K of to-be-encoded bits is determined based on a target code length N of a polar code. Regardless of online calculation or a manner in which calculation and storage are performed in advance, if a second sequence is known, a first sequence may be obtained from the second sequence, and when $N_{max} = N$, the second sequence is the first sequence. The second sequence includes an order of reliability of N_{max} polarized channels, where N_{max} is a maximum code length supported by a communications system. Optionally, the first sequence may be obtained from a prestored second sequence, then information bits are determined based on the first sequence, and finally polar encoding is performed on the K to-be-encoded bits, to obtain a bit sequence obtained after the polar encoding. Therefore, positions of the information bits and fixed bits are determined by obtaining a reliability of a polarized channel of a polar code through a combination of online calculation and offline storage.

[0050] The following specifically describes a sequence of sequence numbers of polarized channels that is obtained through arrangement based on a reliability of an i^{th} polarized channel in N (or N_{max}) polarized channels. The sequence numbers of the N polarized channels may be 0 to N–1, or may be 1 to N. In this embodiment of this application, when the reliability of the i^{th} polarized channel of the N polarized channels is determined, a value of i may be 1, 2, ..., and N, or may be 0, 1, ..., and N–1.

[0051] It may be understood that formulas used in the embodiments of this application are merely examples. Any solution that may be obtained by persons skilled in the art by making simple variations to the formulas without affecting performance of the formulas shall fall within the protection scope of the embodiments of this application.

[0052] For specific sequence examples, refer to the following six groups of sequences found based on different criteria. The second sequence may be part or all of any sequence shown in Sequence Q1 to Sequence Q30. These sequences may also be represented by using corresponding tables Table Q1 to Table Q30. "Reliability or sequence number of reliability" is a natural sequence of reliability in ascending order, and "polarized channel sequence number" is polarized channel sequence numbers in corresponding sequences. Herein, "part of" has three different meanings:

(1) N_{max} is not a positive integer power of 2, but code lengths in the given examples are all positive integer powers of 2; therefore the second sequence can only be part of any sequence shown in Sequence Q1 to Sequence Q30; or

(2) $N_{max\_encoding\_device}$ supported by an encoding device is less than $N_{max\_protocol}$ regulated by a protocol, and therefore only $N_{max\_encoding\_device}$ in any sequence shown in Sequence Q1 to Sequence Q30 needs to be selected; or

(3) Part of an actually used sequence having a length of N_{max} is completely consistent with

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part of any sequence shown in Sequence Q1 to Sequence Q30.

[0053] These sequences may also be represented by using Z sequences, that is, an order of reliability of polarized channels that corresponds to a natural order of polarized channel sequence number is used as a Z sequence. To be specific, the second sequence may be part or all of any sequence shown in Sequence Z1 to Sequence Z30. Likewise, the Z sequences may also be represented by using corresponding tables Table Z1 to Table Z30, where the polarized channel sequence numbers are sequentially arranged in ascending order, and "reliability or sequence number of reliability" is a sequence number of ordering of a reliability of a polarized channel that corresponds to the polarized channel sequence number.

[0054] For example, an x^{th} Q sequence is Sequence Qx and Table Qx, and Sequence Qx is equivalent to Table Qx. Corresponding Z sequences are Sequence Zx and Table Zx, and Sequence Zx is equivalent to Table Zx, where x = 1, 2, ..., and 30.

[0055] First group of sequences (obtained by using a criterion that comprehensively considers performance of code length of 64, 128, 256, 512, and 1024, and preferentially considers performance of a mother code length of 256).

[0056] Sequence Q1, having a sequence length of 1024:

[0, 1, 4, 8, 2, 16, 32, 6, 64, 512, 3, 12, 5, 18, 128, 9, 33, 17, 10, 256, 20, 34, 24, 65, 7, 36, 66, 129, 11, 40, 19, 132, 513, 13, 68, 48, 14, 72, 257, 21, 130, 26, 35, 80, 258, 136, 38, 22, 260, 516, 37, 25, 96, 67, 264, 41, 144, 28, 69, 49, 74, 160, 42, 520, 272, 192, 70, 44, 131, 81, 15, 288, 50, 134, 73, 514, 23, 52, 320, 133, 76, 82, 137, 56, 27, 259, 528, 97, 39, 384, 138, 84, 29, 261, 145, 544, 43, 98, 140, 30, 88, 262, 146, 71, 518, 265, 161, 45, 100, 148, 51, 46, 576, 75, 266, 104, 273, 164, 193, 53, 515, 162, 268, 77, 152, 274, 54, 524, 83, 57, 112, 85, 135, 289, 517, 194, 78, 290, 58, 276, 168, 530, 99, 139, 196, 86, 176, 640, 60, 89, 280, 101, 147, 292, 521, 141, 321, 142, 90, 200, 545, 31, 102, 263, 105, 529, 322, 149, 296, 47, 522, 92, 208, 267, 385, 324, 304, 536, 768, 532, 163, 153, 150, 106, 55, 165, 386, 577, 328, 548, 269, 113, 154, 79, 224, 166, 275, 108, 578, 270, 59, 114, 195, 169, 156, 87, 546, 61, 277, 291, 519, 278, 116, 170, 197, 641, 177, 281, 91, 552, 201, 388, 293, 198, 523, 62, 143, 336, 584, 172, 282, 120, 644, 103, 178, 294, 531, 202, 93, 323, 560, 392, 297, 151, 580, 209, 284, 180, 525, 107, 94, 204, 769, 298, 352, 325, 526, 155, 109, 533, 400, 305, 300, 642, 210, 184, 326, 538, 115, 167, 592, 157, 225, 306, 547, 329, 110, 770, 212, 117, 171, 550, 330, 226, 648, 387, 308, 158, 608, 416, 337, 534, 216, 271, 549, 118, 279, 537, 332, 389, 173, 579, 121, 199, 776, 179, 228, 553, 338, 656, 312, 540, 390, 174, 581, 393, 283, 772, 122, 672, 554, 784, 63, 340, 704, 448, 561, 353, 800, 394, 232, 203, 527, 582, 556, 295, 285, 181, 124, 205, 240, 643, 585, 562, 286, 299, 354, 182, 401, 211, 396, 344, 586, 832, 564, 95, 185, 206, 327, 645, 535, 402, 593, 186, 356, 588, 568, 307, 646, 418, 213, 301, 227, 302, 896, 594, 360, 111, 649, 771, 417, 539, 214, 404, 309, 188,

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449, 331, 217, 159, 609, 596, 551, 650, 119, 229, 333, 408, 541, 773, 610, 657, 310, 420, 600, 218, 368, 230, 652, 391, 175, 313, 339, 542, 334, 123, 555, 774, 233, 314, 658, 612, 341, 777, 450, 220, 424, 355, 673, 583, 125, 234, 183, 395, 241, 557, 660, 616, 316, 342, 345, 778, 563, 403, 287, 397, 452, 674, 558, 785, 432, 187, 357, 207, 664, 587, 780, 705, 676, 236, 346, 565, 361, 126, 242, 589, 405, 215, 398, 566, 303, 597, 358, 801, 419, 624, 456, 786, 348, 244, 569, 189, 590, 219, 647, 311, 706, 362, 595, 464, 802, 406, 680, 421, 788, 248, 598, 190, 570, 369, 651, 409, 834, 410, 708, 480, 613, 231, 572, 315, 659, 364, 422, 335, 688, 370, 792, 221, 611, 451, 601, 425, 804, 412, 653, 453, 833, 317, 712, 235, 602, 343, 543, 372, 654, 222, 614, 426, 775, 433, 559, 237, 898, 617, 347, 808, 243, 720, 454, 665, 318, 604, 376, 661, 428, 779, 238, 675, 359, 836, 458, 625, 399, 662, 677, 434, 567, 457, 816, 245, 618, 349, 787, 127, 781, 897, 407, 666, 436, 591, 363, 620, 465, 736, 350, 678, 571, 246, 681, 249, 626, 460, 707, 840, 411, 782, 365, 789, 440, 599, 374, 668, 628, 423, 900, 466, 848, 803, 250, 790, 371, 709, 191, 573, 689, 481, 682, 413, 603, 793, 366, 713, 468, 710, 373, 574, 655, 427, 806, 414, 684, 904, 252, 615, 482, 632, 805, 429, 794, 864, 223, 690, 455, 714, 835, 472, 809, 377, 605, 619, 435, 663, 721, 319, 796, 484, 692, 912, 430, 606, 716, 488, 810, 459, 838, 667, 239, 817, 621, 378, 837, 722, 437, 696, 461, 737, 679, 380, 812, 627, 247, 899, 841, 441, 622, 928, 351, 724, 783, 469, 629, 818, 438, 669, 462, 738, 683, 251, 842, 849, 496, 901, 820, 728, 467, 633, 902, 367, 670, 791, 442, 844, 630, 474, 685, 850, 483, 691, 711, 379, 865, 795, 415, 824, 960, 740, 253, 905, 634, 444, 693, 744, 485, 807, 686, 906, 470, 575, 715, 375, 866, 913, 473, 852, 636, 797, 431, 694, 811, 486, 752, 723, 798, 489, 856, 908, 254, 717, 607, 930, 476, 697, 725, 914, 439, 819, 839, 868, 492, 718, 698, 381, 813, 623, 814, 498, 872, 739, 929, 671, 916, 821, 463, 726, 961, 843, 490, 631, 729, 700, 382, 741, 845, 920, 471, 822, 851, 730, 497, 880, 742, 443, 903, 687, 825, 500, 445, 932, 846, 635, 745, 826, 732, 446, 962, 936, 475, 853, 867, 637, 907, 487, 695, 746, 828, 753, 854, 857, 915, 964, 477, 909, 719, 799, 699, 493, 504, 748, 944, 858, 873, 638, 754, 255, 968, 869, 491, 478, 383, 910, 815, 917, 727, 870, 701, 931, 860, 499, 756, 731, 823, 922, 874, 976, 918, 502, 933, 743, 760, 881, 494, 702, 921, 876, 501, 847, 992, 447, 733, 827, 882, 934, 963, 505, 937, 747, 855, 924, 734, 829, 965, 938, 884, 506, 749, 945, 859, 755, 479, 966, 830, 888, 940, 750, 871, 970, 911, 757, 946, 969, 861, 977, 875, 919, 639, 758, 948, 862, 761, 508, 972, 923, 877, 952, 886, 935, 978, 762, 503, 883, 703, 993, 925, 878, 980, 941, 764, 495, 926, 885, 994, 735, 939, 984, 967, 889, 947, 831, 507, 942, 751, 973, 996, 890, 949, 759, 892, 971, 1000, 953, 509, 863, 981, 950, 974, 763, 1008, 979, 879, 954, 986, 995, 891, 927, 510, 765, 956, 997, 982, 887, 985, 943, 998, 1001, 766, 988, 951, 1004, 893, 1010, 957, 975, 511, 1002, 894, 983, 1009, 955, 987, 1012, 958, 999, 1005, 989, 1016, 990, 1011, 767, 1003, 1014, 1006, 1017, 895, 1013, 991, 1018, 959, 1020, 1015, 1007, 1019, 1021, 1022, 1023]

[0057] Table Q1, having a sequence length of 1024:

Date Reçue/Date Received 2020-06-09

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	128	83	256	526	384	309	512	422	640	223	768	492	896	859
1	1	129	57	257	155	385	188	513	335	641	690	769	718	897	755
2	4	130	112	258	109	386	449	514	688	642	455	770	698	898	479
3	8	131	85	259	533	387	331	515	370	643	714	771	381	899	966
4	2	132	135	260	400	388	217	516	792	644	835	772	813	900	830
5	16	133	289	261	305	389	159	517	221	645	472	773	623	901	888
6	32	134	517	262	300	390	609	518	611	646	809	774	814	902	940
7	6	135	194	263	642	391	596	519	451	647	377	775	498	903	750
8	64	136	78	264	210	392	551	520	601	648	605	776	872	904	871
9	512	137	290	265	184	393	650	521	425	649	619	777	739	905	970
10	3	138	58	266	326	394	119	522	804	650	435	778	929	906	911
11	12	139	276	267	538	395	229	523	412	651	663	779	671	907	757
12	5	140	168	268	115	396	333	524	653	652	721	780	916	908	946
13	18	141	530	269	167	397	408	525	453	653	319	781	821	909	969
14	128	142	99	270	592	398	541	526	833	654	796	782	463	910	861
15	9	143	139	271	157	399	773	527	317	655	484	783	726	911	977
16	33	144	196	272	225	400	610	528	712	656	692	784	961	912	875
17	17	145	86	273	306	401	657	529	235	657	912	785	843	913	919
18	10	146	176	274	547	402	310	530	602	658	430	786	490	914	639
19	256	147	640	275	329	403	420	531	343	659	606	787	631	915	758
20	20	148	60	276	110	404	600	532	543	660	716	788	729	916	948
21	34	149	89	277	770	405	218	533	372	661	488	789	700	917	862
22	24	150	280	278	212	406	368	534	654	662	810	790	382	918	761
23	65	151	101	279	117	407	230	535	222	663	459	791	741	919	508
24	7	152	147	280	171	408	652	536	614	664	838	792	845	920	972
25	36	153	292	281	550	409	391	537	426	665	667	793	920	921	923
26	66	154	521	282	330	410	175	538	775	666	239	794	471	922	877
27	129	155	141	283	226	411	313	539	433	667	817	795	822	923	952
28	11	156	321	284	648	412	339	540	559	668	621	796	851	924	886
29	40	157	142	285	387	413	542	541	237	669	378	797	730	925	935
30	19	158	90	286	308	414	334	542	898	670	837	798	497	926	978

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31	132	159	200	287	158	415	123	543	617	671	722	799	880	927	762
32	513	160	545	288	608	416	555	544	347	672	437	800	742	928	503
33	13	161	31	289	416	417	774	545	808	673	696	801	443	929	883
34	68	162	102	290	337	418	233	546	243	674	461	802	903	930	703
35	48	163	263	291	534	419	314	547	720	675	737	803	687	931	993
36	14	164	105	292	216	420	658	548	454	676	679	804	825	932	925
37	72	165	529	293	271	421	612	549	665	677	380	805	500	933	878
38	257	166	322	294	549	422	341	550	318	678	812	806	445	934	980
39	21	167	149	295	118	423	777	551	604	679	627	807	932	935	941
40	130	168	296	296	279	424	450	552	376	680	247	808	846	936	764
41	26	169	47	297	537	425	220	553	661	681	899	809	635	937	495
42	35	170	522	298	332	426	424	554	428	682	841	810	745	938	926
43	80	171	92	299	389	427	355	555	779	683	441	811	826	939	885
44	258	172	208	300	173	428	673	556	238	684	622	812	732	940	994
45	136	173	267	301	579	429	583	557	675	685	928	813	446	941	735
46	38	174	385	302	121	430	125	558	359	686	351	814	962	942	939
47	22	175	324	303	199	431	234	559	836	687	724	815	936	943	984
48	260	176	304	304	776	432	183	560	458	688	783	816	475	944	967
49	516	177	536	305	179	433	395	561	625	689	469	817	853	945	889
50	37	178	768	306	228	434	241	562	399	690	629	818	867	946	947
51	25	179	532	307	553	435	557	563	662	691	818	819	637	947	831
52	96	180	163	308	338	436	660	564	677	692	438	820	907	948	507
53	67	181	153	309	656	437	616	565	434	693	669	821	487	949	942
54	264	182	150	310	312	438	316	566	567	694	462	822	695	950	751
55	41	183	106	311	540	439	342	567	457	695	738	823	746	951	973
56	144	184	55	312	390	440	345	568	816	696	683	824	828	952	996
57	28	185	165	313	174	441	778	569	245	697	251	825	753	953	890
58	69	186	386	314	581	442	563	570	618	698	842	826	854	954	949
59	49	187	577	315	393	443	403	571	349	699	849	827	857	955	759
60	74	188	328	316	283	444	287	572	787	700	496	828	915	956	892
61	160	189	548	317	772	445	397	573	127	701	901	829	964	957	971
62	42	190	269	318	122	446	452	574	781	702	820	830	477	958	1000
63	520	191	113	319	672	447	674	575	897	703	728	831	909	959	953
64	272	192	154	320	554	448	558	576	407	704	467	832	719	960	509
65	192	193	79	321	784	449	785	577	666	705	633	833	799	961	863
66	70	194	224	322	63	450	432	578	436	706	902	834	699	962	981
67	44	195	166	323	340	451	187	579	591	707	367	835	493	963	950

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68	131	196	275	324	704	452	357	580	363	708	670	836	504	964	974
69	81	197	108	325	448	453	207	581	620	709	791	837	748	965	763
70	15	198	578	326	561	454	664	582	465	710	442	838	944	966	1008
71	288	199	270	327	353	455	587	583	736	711	844	839	858	967	979
72	50	200	59	328	800	456	780	584	350	712	630	840	873	968	879
73	134	201	114	329	394	457	705	585	678	713	474	841	638	969	954
74	73	202	195	330	232	458	676	586	571	714	685	842	754	970	986
75	514	203	169	331	203	459	236	587	246	715	850	843	255	971	995
76	23	204	156	332	527	460	346	588	681	716	483	844	968	972	891
77	52	205	87	333	582	461	565	589	249	717	691	845	869	973	927
78	320	206	546	334	556	462	361	590	626	718	711	846	491	974	510
79	133	207	61	335	295	463	126	591	460	719	379	847	478	975	765
80	76	208	277	336	285	464	242	592	707	720	865	848	383	976	956
81	82	209	291	337	181	465	589	593	840	721	795	849	910	977	997
82	137	210	519	338	124	466	405	594	411	722	415	850	815	978	982
83	56	211	278	339	205	467	215	595	782	723	824	851	917	979	887
84	27	212	116	340	240	468	398	596	365	724	960	852	727	980	985
85	259	213	170	341	643	469	566	597	789	725	740	853	870	981	943
86	528	214	197	342	585	470	303	598	440	726	253	854	701	982	998
87	97	215	641	343	562	471	597	599	599	727	905	855	931	983	1001
88	39	216	177	344	286	472	358	600	374	728	634	856	860	984	766
89	384	217	281	345	299	473	801	601	668	729	444	857	499	985	988
90	138	218	91	346	354	474	419	602	628	730	693	858	756	986	951
91	84	219	552	347	182	475	624	603	423	731	744	859	731	987	1004
92	29	220	201	348	401	476	456	604	900	732	485	860	823	988	893
93	261	221	388	349	211	477	786	605	466	733	807	861	922	989	1010
94	145	222	293	350	396	478	348	606	848	734	686	862	874	990	957
95	544	223	198	351	344	479	244	607	803	735	906	863	976	991	975
96	43	224	523	352	586	480	569	608	250	736	470	864	918	992	511
97	98	225	62	353	832	481	189	609	790	737	575	865	502	993	1002
98	140	226	143	354	564	482	590	610	371	738	715	866	933	994	894
99	30	227	336	355	95	483	219	611	709	739	375	867	743	995	983
100	88	228	584	356	185	484	647	612	191	740	866	868	760	996	1009
101	262	229	172	357	206	485	311	613	573	741	913	869	881	997	955
102	146	230	282	358	327	486	706	614	689	742	473	870	494	998	987
103	71	231	120	359	645	487	362	615	481	743	852	871	702	999	1012
104	518	232	644	360	535	488	595	616	682	744	636	872	921	1000	958

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105	265	233	103	361	402	489	464	617	413	745	797	873	876	1001	999
106	161	234	178	362	593	490	802	618	603	746	431	874	501	1002	1005
107	45	235	294	363	186	491	406	619	793	747	694	875	847	1003	989
108	100	236	531	364	356	492	680	620	366	748	811	876	992	1004	1016
109	148	237	202	365	588	493	421	621	713	749	486	877	447	1005	990
110	51	238	93	366	568	494	788	622	468	750	752	878	733	1006	1011
111	46	239	323	367	307	495	248	623	710	751	723	879	827	1007	767
112	576	240	560	368	646	496	598	624	373	752	798	880	882	1008	1003
113	75	241	392	369	418	497	190	625	574	753	489	881	934	1009	1014
114	266	242	297	370	213	498	570	626	655	754	856	882	963	1010	1006
115	104	243	151	371	301	499	369	627	427	755	908	883	505	1011	1017
116	273	244	580	372	227	500	651	628	806	756	254	884	937	1012	895
117	164	245	209	373	302	501	409	629	414	757	717	885	747	1013	1013
118	193	246	284	374	896	502	834	630	684	758	607	886	855	1014	991
119	53	247	180	375	594	503	410	631	904	759	930	887	924	1015	1018
120	515	248	525	376	360	504	708	632	252	760	476	888	734	1016	959
121	162	249	107	377	111	505	480	633	615	761	697	889	829	1017	1020
122	268	250	94	378	649	506	613	634	482	762	725	890	965	1018	1015
123	77	251	204	379	771	507	231	635	632	763	914	891	938	1019	1007
124	152	252	769	380	417	508	572	636	805	764	439	892	884	1020	1019
125	274	253	298	381	539	509	315	637	429	765	819	893	506	1021	1021
126	54	254	352	382	214	510	659	638	794	766	839	894	749	1022	1022
127	524	255	325	383	404	511	364	639	864	767	868	895	945	1023	1023

[0058] Sequence Q2, having a sequence length of 512:

[0, 1, 4, 8, 2, 16, 32, 6, 64, 3, 12, 5, 18, 128, 9, 33, 17, 10, 256, 20, 34, 24, 65, 7, 36, 66, 129, 11, 40, 19, 132, 13, 68, 48, 14, 72, 257, 21, 130, 26, 35, 80, 258, 136, 38, 22, 260, 37, 25, 96, 67, 264, 41, 144, 28, 69, 49, 74, 160, 42, 272, 192, 70, 44, 131, 81, 15, 288, 50, 134, 73, 23, 52, 320, 133, 76, 82, 137, 56, 27, 259, 97, 39, 384, 138, 84, 29, 261, 145, 43, 98, 140, 30, 88, 262, 146, 71, 265, 161, 45, 100, 148, 51, 46, 75, 266, 104, 273, 164, 193, 53, 162, 268, 77, 152, 274, 54, 83, 57, 112, 85, 135, 289, 194, 78, 290, 58, 276, 168, 99, 139, 196, 86, 176, 60, 89, 280, 101, 147, 292, 141, 321, 142, 90, 200, 31, 102, 263, 105, 322, 149, 296, 47, 92, 208, 267, 385, 324, 304, 163, 153, 150, 106, 55, 165, 386, 328, 269, 113, 154, 79, 224, 166, 275, 108, 270, 59, 114, 195, 169, 156, 87, 61, 277, 291, 278, 116, 170, 197, 177, 281, 91, 201, 388, 293, 198, 62, 143, 336, 172, 282, 120, 103, 178, 294, 202, 93, 323, 392, 297, 151, 209, 284, 180, 107, 94, 204, 298, 352, 325, 155, 109, 400, 305, 300, 210, 184, 326, 115, 167, 157, 225, 306, 329, 110, 212, 117, 171, 330, 226, 387, 308, 158, 416, 337, 216, 271,

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118, 279, 332, 389, 173, 121, 199, 179, 228, 338, 312, 390, 174, 393, 283, 122, 63, 340, 448, 353, 394, 232, 203, 295, 285, 181, 124, 205, 240, 286, 299, 354, 182, 401, 211, 396, 344, 95, 185, 206, 327, 402, 186, 356, 307, 418, 213, 301, 227, 302, 360, 111, 417, 214, 404, 309, 188, 449, 331, 217, 159, 119, 229, 333, 408, 310, 420, 218, 368, 230, 391, 175, 313, 339, 334, 123, 233, 314, 341, 450, 220, 424, 355, 125, 234, 183, 395, 241, 316, 342, 345, 403, 287, 397, 452, 432, 187, 357, 207, 236, 346, 361, 126, 242, 405, 215, 398, 303, 358, 419, 456, 348, 244, 189, 219, 311, 362, 464, 406, 421, 248, 190, 369, 409, 410, 480, 231, 315, 364, 422, 335, 370, 221, 451, 425, 412, 453, 317, 235, 343, 372, 222, 426, 433, 237, 347, 243, 454, 318, 376, 428, 238, 359, 458, 399, 434, 457, 245, 349, 127, 407, 436, 363, 465, 350, 246, 249, 460, 411, 365, 440, 374, 423, 466, 250, 371, 191, 481, 413, 366, 468, 373, 427, 414, 252, 482, 429, 223, 455, 472, 377, 435, 319, 484, 430, 488, 459, 239, 378, 437, 461, 380, 247, 441, 351, 469, 438, 462, 251, 496, 467, 367, 442, 474, 483, 379, 415, 253, 444, 485, 470, 375, 473, 431, 486, 489, 254, 476, 439, 492, 381, 498, 463, 490, 382, 471, 497, 443, 500, 445, 446, 475, 487, 477, 493, 504, 255, 491, 478, 383, 499, 502, 494, 501, 447, 505, 506, 479, 508, 503, 495, 507, 509, 510, 511]

[0059] Table Q2, having a sequence length of 512:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	64	131	128	168	192	201	256	338	320	339	384	317	448	380
1	1	65	81	129	99	193	388	257	312	321	334	385	235	449	247
2	4	66	15	130	139	194	293	258	390	322	123	386	343	450	441
3	8	67	288	131	196	195	198	259	174	323	233	387	372	451	351
4	2	68	50	132	86	196	62	260	393	324	314	388	222	452	469
5	16	69	134	133	176	197	143	261	283	325	341	389	426	453	438
6	32	70	73	134	60	198	336	262	122	326	450	390	433	454	462
7	6	71	23	135	89	199	172	263	63	327	220	391	237	455	251
8	64	72	52	136	280	200	282	264	340	328	424	392	347	456	496
9	3	73	320	137	101	201	120	265	448	329	355	393	243	457	467
10	12	74	133	138	147	202	103	266	353	330	125	394	454	458	367
11	5	75	76	139	292	203	178	267	394	331	234	395	318	459	442
12	18	76	82	140	141	204	294	268	232	332	183	396	376	460	474
13	128	77	137	141	321	205	202	269	203	333	395	397	428	461	483

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14	9	78	56	142	142	206	93	270	295	334	241	398	238	462	379
15	33	79	27	143	90	207	323	271	285	335	316	399	359	463	415
16	17	80	259	144	200	208	392	272	181	336	342	400	458	464	253
17	10	81	97	145	31	209	297	273	124	337	345	401	399	465	444
18	256	82	39	146	102	210	151	274	205	338	403	402	434	466	485
19	20	83	384	147	263	211	209	275	240	339	287	403	457	467	470
20	34	84	138	148	105	212	284	276	286	340	397	404	245	468	375
21	24	85	84	149	322	213	180	277	299	341	452	405	349	469	473
22	65	86	29	150	149	214	107	278	354	342	432	406	127	470	431
23	7	87	261	151	296	215	94	279	182	343	187	407	407	471	486
24	36	88	145	152	47	216	204	280	401	344	357	408	436	472	489
25	66	89	43	153	92	217	298	281	211	345	207	409	363	473	254
26	129	90	98	154	208	218	352	282	396	346	236	410	465	474	476
27	11	91	140	155	267	219	325	283	344	347	346	411	350	475	439
28	40	92	30	156	385	220	155	284	95	348	361	412	246	476	492
29	19	93	88	157	324	221	109	285	185	349	126	413	249	477	381
30	132	94	262	158	304	222	400	286	206	350	242	414	460	478	498
31	13	95	146	159	163	223	305	287	327	351	405	415	411	479	463
32	68	96	71	160	153	224	300	288	402	352	215	416	365	480	490
33	48	97	265	161	150	225	210	289	186	353	398	417	440	481	382
34	14	98	161	162	106	226	184	290	356	354	303	418	374	482	471
35	72	99	45	163	55	227	326	291	307	355	358	419	423	483	497
36	257	100	100	164	165	228	115	292	418	356	419	420	466	484	443
37	21	101	148	165	386	229	167	293	213	357	456	421	250	485	500
38	130	102	51	166	328	230	157	294	301	358	348	422	371	486	445
39	26	103	46	167	269	231	225	295	227	359	244	423	191	487	446
40	35	104	75	168	113	232	306	296	302	360	189	424	481	488	475
41	80	105	266	169	154	233	329	297	360	361	219	425	413	489	487
42	258	106	104	170	79	234	110	298	111	362	311	426	366	490	477
43	136	107	273	171	224	235	212	299	417	363	362	427	468	491	493
44	38	108	164	172	166	236	117	300	214	364	464	428	373	492	504
45	22	109	193	173	275	237	171	301	404	365	406	429	427	493	255
46	260	110	53	174	108	238	330	302	309	366	421	430	414	494	491
47	37	111	162	175	270	239	226	303	188	367	248	431	252	495	478
48	25	112	268	176	59	240	387	304	449	368	190	432	482	496	383
49	96	113	77	177	114	241	308	305	331	369	369	433	429	497	499
50	67	114	152	178	195	242	158	306	217	370	409	434	223	498	502

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51	264	115	274	179	169	243	416	307	159	371	410	435	455	499	494
52	41	116	54	180	156	244	337	308	119	372	480	436	472	500	501
53	144	117	83	181	87	245	216	309	229	373	231	437	377	501	447
54	28	118	57	182	61	246	271	310	333	374	315	438	435	502	505
55	69	119	112	183	277	247	118	311	408	375	364	439	319	503	506
56	49	120	85	184	291	248	279	312	310	376	422	440	484	504	479
57	74	121	135	185	278	249	332	313	420	377	335	441	430	505	508
58	160	122	289	186	116	250	389	314	218	378	370	442	488	506	503
59	42	123	194	187	170	251	173	315	368	379	221	443	459	507	495
60	272	124	78	188	197	252	121	316	230	380	451	444	239	508	507
61	192	125	290	189	177	253	199	317	391	381	425	445	378	509	509
62	70	126	58	190	281	254	179	318	175	382	412	446	437	510	510
63	44	127	276	191	91	255	228	319	313	383	453	447	461	511	511

[0060] Sequence Q3, having a sequence length of 256:

[0, 1, 4, 8, 2, 16, 32, 6, 64, 3, 12, 5, 18, 128, 9, 33, 17, 10, 20, 34, 24, 65, 7, 36, 66, 129, 11, 40, 19, 132, 13, 68, 48, 14, 72, 21, 130, 26, 35, 80, 136, 38, 22, 37, 25, 96, 67, 41, 144, 28, 69, 49, 74, 160, 42, 192, 70, 44, 131, 81, 15, 50, 134, 73, 23, 52, 133, 76, 82, 137, 56, 27, 97, 39, 138, 84, 29, 145, 43, 98, 140, 30, 88, 146, 71, 161, 45, 100, 148, 51, 46, 75, 104, 164, 193, 53, 162, 77, 152, 54, 83, 57, 112, 85, 135, 194, 78, 58, 168, 99, 139, 196, 86, 176, 60, 89, 101, 147, 141, 142, 90, 200, 31, 102, 105, 149, 47, 92, 208, 163, 153, 150, 106, 55, 165, 113, 154, 79, 224, 166, 108, 59, 114, 195, 169, 156, 87, 61, 116, 170, 197, 177, 91, 201, 198, 62, 143, 172, 120, 103, 178, 202, 93, 151, 209, 180, 107, 94, 204, 155, 109, 210, 184, 115, 167, 157, 225, 110, 212, 117, 171, 226, 158, 216, 118, 173, 121, 199, 179, 228, 174, 122, 63, 232, 203, 181, 124, 205, 240, 182, 211, 95, 185, 206, 186, 213, 227, 111, 214, 188, 217, 159, 119, 229, 218, 230, 175, 123, 233, 220, 125, 234, 183, 241, 187, 207, 236, 126, 242, 215, 244, 189, 219, 248, 190, 231, 221, 235, 222, 237, 243, 238, 245, 127, 246, 249, 250, 191, 252, 223, 239, 247, 251, 253, 254, 255]

[0061] Table Q3, having a sequence length of 256:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	32	48	64	23	96	162	128	208	160	178	192	63	224	187
1	1	33	14	66	52	97	77	129	163	161	202	193	232	225	207

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2	4	34	72	66	133	98	152	130	153	162	93	194	203	226	236
3	8	35	21	67	76	99	54	131	150	163	151	195	181	227	126
4	2	36	130	68	82	100	83	132	106	164	209	196	124	228	242
5	16	37	26	69	137	101	57	133	55	165	180	197	205	229	215
6	32	38	35	70	56	102	112	134	165	166	107	198	240	230	244
7	6	39	80	71	27	103	85	135	113	167	94	199	182	231	189
8	64	40	136	72	97	104	135	136	154	168	204	200	211	232	219
9	3	41	38	73	39	105	194	137	79	169	155	201	95	233	248
10	12	42	22	74	138	106	78	138	224	170	109	202	185	234	190
11	5	43	37	75	84	107	58	139	166	171	210	203	206	235	231
12	18	44	25	76	29	108	168	140	108	172	184	204	186	236	221
13	128	45	96	77	145	109	99	141	59	173	115	205	213	237	235
14	9	46	67	78	43	110	139	142	114	174	167	206	227	238	222
15	33	47	41	79	98	111	196	143	195	175	157	207	111	239	237
16	17	48	144	80	140	112	86	144	169	176	225	208	214	240	243
17	10	49	28	81	30	113	176	145	156	177	110	209	188	241	238
18	20	50	69	82	88	114	60	146	87	178	212	210	217	242	245
19	34	51	49	83	146	115	89	147	61	179	117	211	159	243	127
20	24	52	74	84	71	116	101	148	116	180	171	212	119	244	246
21	65	53	160	85	161	117	147	149	170	181	226	213	229	245	249
22	7	54	42	86	45	118	141	150	197	182	158	214	218	246	250
23	36	55	192	87	100	119	142	151	177	183	216	215	230	247	191
24	66	56	70	88	148	120	90	152	91	184	118	216	175	248	252
25	129	57	44	89	51	121	200	153	201	185	173	217	123	249	223
26	11	58	131	90	46	122	31	154	198	186	121	218	233	250	239
27	40	59	81	91	75	123	102	155	62	187	199	219	220	251	247
28	19	60	15	92	104	124	105	156	143	188	179	220	125	252	251
29	132	61	50	93	164	125	149	157	172	189	228	221	234	253	253
30	13	62	134	94	193	126	47	158	120	190	174	222	183	254	254
31	68	63	73	95	53	127	92	159	103	191	122	223	241	255	255

[0062] Sequence Q4, having a sequence length of 128:

[0, 1, 4, 8, 2, 16, 32, 6, 64, 3, 12, 5, 18, 9, 33, 17, 10, 20, 34, 24, 65, 7, 36, 66, 11, 40, 19, 13, 68, 48, 14, 72, 21, 26, 35, 80, 38, 22, 37, 25, 96, 67, 41, 28, 69, 49, 74, 42, 70, 44, 81, 15, 50, 73, 23, 52, 76, 82, 56, 27, 97, 39, 84, 29, 43, 98, 30, 88, 71, 45, 100, 51, 46, 75, 104, 53, 77, 54, 83, 57, 112, 85, 78, 58, 99, 86, 60, 89, 101, 90, 31, 102, 105, 47, 92, 106, 55, 113, 79, 108, 59, 114, 87, 61, 116, 91, 62, 120, 103, 93, 107, 94, 109, 115, 110, 117, 118, 121, 122, 63, 124, 95, 111, 119, 123, 125,

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126, 127]

[0063] Table Q4, having a sequence length of 128:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	16	10	32	21	48	70	64	43	80	112	96	55	112	109
1	1	17	20	33	26	49	44	65	98	81	85	97	113	113	115
2	4	18	34	34	35	50	81	66	30	82	78	98	79	114	110
3	8	19	24	35	80	51	15	67	88	83	58	99	108	115	117
4	2	20	65	36	38	52	50	68	71	84	99	100	59	116	118
5	16	21	7	37	22	53	73	69	45	85	86	101	114	117	121
6	32	22	36	38	37	54	23	70	100	86	60	102	87	118	122
7	6	23	66	39	25	55	52	71	51	87	89	103	61	119	63
8	64	24	11	40	96	56	76	72	46	88	101	104	116	120	124
9	3	25	40	41	67	57	82	73	75	89	90	105	91	121	95
10	12	26	19	42	41	58	56	74	104	90	31	106	62	122	111
11	5	27	13	43	28	59	27	75	53	91	102	107	120	123	119
12	18	28	68	44	69	60	97	76	77	92	105	108	103	124	123
13	9	29	48	45	49	61	39	77	54	93	47	109	93	125	125
14	33	30	14	46	74	62	84	78	83	94	92	110	107	126	126
15	17	31	72	47	42	63	29	79	57	95	106	111	94	127	127

[0064] Sequence Q5, having a sequence length of 64:

[0, 1, 4, 8, 2, 16, 32, 6, 3, 12, 5, 18, 9, 33, 17, 10, 20, 34, 24, 7, 36, 11, 40, 19, 13, 48, 14, 21, 26, 35, 38, 22, 37, 25, 41, 28, 49, 42, 44, 15, 50, 23, 52, 56, 27, 39, 29, 43, 30, 45, 51, 46, 53, 54, 57, 58, 60, 31, 47, 55, 59, 61, 62, 63]

[0065] Table Q5, having a sequence length of 64:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	8	3	16	20	24	13	32	37	40	50	48	30	56	60

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1	1	9	12	17	34	25	48	33	25	41	23	49	45	57	31
2	4	10	5	18	24	26	14	34	41	42	52	50	51	58	47
3	8	11	18	19	7	27	21	35	28	43	56	51	46	59	55
4	2	12	9	20	36	28	26	36	49	44	27	52	53	60	59
5	16	13	33	21	11	29	35	37	42	45	39	53	54	61	61
6	32	14	17	22	40	30	38	38	44	46	29	54	57	62	62
7	6	15	10	23	19	31	22	39	15	47	43	55	58	63	63

[0066] Sequence Z1, having a sequence length of 1024:

[0, 1, 4, 10, 2, 12, 7, 24, 3, 15, 18, 28, 11, 33, 36, 70, 5, 17, 13, 30, 20, 39, 47, 76, 22, 51, 41, 84, 57, 92, 99, 161, 6, 16, 21, 42, 25, 50, 46, 88, 29, 55, 62, 96, 67, 107, 111, 169, 35, 59, 72, 110, 77, 119, 126, 184, 83, 129, 138, 200, 148, 207, 225, 322, 8, 23, 26, 53, 34, 58, 66, 103, 37, 74, 60, 113, 80, 123, 136, 193, 43, 69, 81, 128, 91, 131, 145, 205, 100, 149, 158, 218, 171, 238, 250, 355, 52, 87, 97, 142, 108, 151, 162, 233, 115, 164, 183, 249, 197, 258, 276, 377, 130, 191, 201, 268, 212, 279, 295, 394, 231, 302, 318, 415, 338, 430, 463, 573, 14, 27, 40, 68, 31, 79, 73, 132, 45, 82, 90, 143, 98, 155, 157, 226, 56, 94, 102, 152, 109, 167, 182, 243, 124, 181, 192, 257, 204, 271, 287, 389, 61, 106, 121, 180, 117, 185, 195, 269, 140, 203, 213, 280, 229, 300, 313, 410, 146, 216, 234, 305, 247, 337, 347, 432, 265, 356, 363, 451, 385, 481, 497, 612, 65, 118, 135, 202, 144, 214, 223, 303, 159, 220, 237, 331, 251, 339, 357, 453, 172, 245, 264, 349, 278, 370, 382, 467, 292, 388, 405, 483, 425, 517, 535, 640, 194, 272, 283, 372, 306, 395, 407, 507, 330, 418, 431, 529, 459, 541, 556, 666, 340, 434, 464, 546, 479, 569, 587, 680, 495, 589, 608, 697, 632, 726, 756, 843, 19, 38, 44, 85, 48, 93, 101, 163, 54, 105, 114, 173, 122, 190, 199, 293, 64, 116, 125, 196, 139, 208, 211, 296, 150, 217, 230, 316, 246, 336, 344, 444, 71, 133, 137, 209, 153, 222, 235, 335, 168, 242, 253, 345, 262, 371, 373, 470, 176, 261, 273, 367, 286, 384, 402, 485, 310, 411, 419, 509, 438, 527, 550, 653, 78, 156, 166, 239, 175, 255, 266, 358, 188, 275, 282, 387, 298, 396, 414, 513, 227, 290, 308, 412, 323, 422, 439, 531, 351, 440, 460, 544, 478, 571, 584, 686, 254, 327, 346, 427, 364, 452, 472, 558, 376, 462, 487, 580, 511, 596, 620, 707, 406, 499, 515, 610, 533, 624, 600, 739, 552, 647, 669, 719, 677, 771, 790, 848, 89, 174, 186, 285, 221, 299, 312, 409, 241, 315, 329, 433, 350, 445, 468, 562, 260, 348, 361, 443, 383, 466, 491, 576, 397, 501, 503, 594, 523, 617, 629, 722, 289, 380, 369, 474, 403, 493, 512, 603, 426, 521, 537, 627, 554, 637, 658, 746, 450, 539, 565, 650, 578, 672, 692, 764, 598, 683, 710, 801, 729, 806, 813, 877, 325, 386, 424, 519, 446, 525, 548, 642, 476, 567, 560, 663, 591, 674, 694, 782, 489, 582, 605, 704, 622, 689, 736, 794, 645, 742, 713, 816, 760, 830, 847, 898, 505, 615, 634, 716, 655, 732, 749, 821, 661, 753, 786, 846, 768, 835, 870, 937, 700, 798, 775, 857, 805, 874, 865, 928, 836, 883, 893, 948, 919, 960, 974, 992, 9, 32, 75, 120, 49, 134, 104, 210, 63, 154, 170, 224, 127, 248, 256, 332, 86, 165, 141, 236, 179, 259, 291, 360, 177, 297, 267, 381, 311, 398, 413, 532, 95, 160, 206, 274,

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189, 294, 281, 392, 219, 307, 320, 416, 334, 435, 448, 540, 240, 326, 343, 442, 354, 461, 469, 566, 366, 480, 498, 586, 508, 613, 625, 737, 112, 187, 198, 301, 244, 314, 333, 429, 228, 342, 352, 455, 365, 465, 482, 579, 270, 362, 375, 488, 391, 471, 496, 599, 404, 520, 530, 618, 551, 648, 659, 758, 288, 390, 400, 518, 421, 506, 536, 633, 437, 543, 570, 649, 581, 668, 684, 773, 475, 561, 590, 679, 602, 690, 712, 787, 635, 705, 728, 809, 744, 819, 841, 914, 147, 215, 263, 341, 232, 359, 368, 484, 284, 378, 393, 500, 408, 524, 534, 626, 309, 401, 420, 510, 436, 553, 563, 651, 454, 549, 577, 665, 601, 693, 708, 779, 319, 428, 447, 557, 458, 564, 585, 676, 492, 588, 616, 696, 630, 714, 734, 803, 514, 614, 641, 717, 656, 730, 747, 822, 673, 761, 770, 834, 789, 854, 871, 930, 324, 457, 486, 592, 504, 611, 623, 718, 528, 621, 643, 738, 660, 757, 769, 832, 547, 652, 671, 751, 687, 762, 783, 852, 703, 788, 797, 859, 812, 878, 888, 941, 583, 675, 695, 777, 725, 791, 800, 867, 731, 810, 823, 885, 837, 894, 903, 950, 750, 825, 842, 897, 858, 907, 915, 955, 868, 918, 927, 965, 936, 975, 984, 1007, 178, 252, 277, 379, 317, 399, 417, 538, 304, 423, 441, 555, 456, 574, 595, 688, 321, 449, 477, 572, 494, 597, 609, 709, 516, 619, 638, 721, 654, 745, 752, 833, 328, 473, 490, 607, 522, 636, 628, 733, 545, 646, 662, 748, 678, 772, 774, 850, 568, 667, 691, 765, 702, 781, 795, 860, 723, 804, 811, 879, 824, 889, 900, 947, 353, 526, 502, 644, 559, 670, 664, 766, 593, 682, 698, 785, 711, 792, 808, 875, 606, 699, 715, 796, 743, 817, 826, 886, 754, 827, 839, 896, 856, 910, 917, 961, 639, 720, 740, 818, 767, 845, 853, 904, 776, 840, 862, 912, 873, 922, 933, 968, 799, 869, 880, 929, 892, 939, 924, 979, 901, 945, 953, 972, 956, 988, 994, 1012, 374, 575, 542, 681, 604, 701, 706, 802, 631, 727, 735, 820, 755, 831, 849, 906, 657, 741, 763, 828, 780, 851, 864, 913, 793, 872, 861, 921, 887, 932, 938, 973, 685, 778, 759, 855, 807, 866, 881, 925, 815, 884, 891, 942, 902, 935, 949, 981, 838, 895, 908, 946, 916, 954, 963, 986, 923, 959, 969, 997, 976, 990, 1000, 1016, 724, 784, 814, 882, 829, 890, 899, 944, 844, 909, 905, 957, 920, 951, 964, 991, 863, 911, 926, 967, 934, 962, 978, 995, 943, 980, 970, 998, 985, 1003, 1005, 1014, 876, 931, 940, 971, 952, 977, 982, 1001, 958, 983, 993, 1008, 987, 1002, 1010, 1019, 966, 996, 989, 1006, 999, 1013, 1009, 1018, 1004, 1011, 1015, 1020, 1017, 1021, 1022, 1023]

[0067] Table Z1, having a sequence length of 1024:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of rcliability
0	0	128	14	256	19	384	89	512	9	640	147	768	178	896	374
1	1	129	27	257	38	385	174	513	32	641	215	769	252	897	575
2	4	130	40	258	44	386	186	514	75	642	263	770	277	898	542

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3	10	131	68	259	85	387	285	515	120	643	341	771	379	899	681
4	2	132	31	260	48	388	221	516	49	644	232	772	317	900	604
5	12	133	79	261	93	389	299	517	134	645	359	773	399	901	701
6	7	134	73	262	101	390	312	518	104	646	368	774	417	902	706
7	24	135	132	263	163	391	409	519	210	647	484	775	538	903	802
8	3	136	45	264	54	392	241	520	63	648	284	776	304	904	631
9	15	137	82	265	105	393	315	521	154	649	378	777	423	905	727
10	18	138	90	266	114	394	329	522	170	650	393	778	441	906	735
11	28	139	143	267	173	395	433	523	224	651	500	779	555	907	820
12	11	140	98	268	122	396	350	524	127	652	408	780	456	908	755
13	33	141	155	269	190	397	445	525	248	653	524	781	574	909	831
14	36	142	157	270	199	398	468	526	256	654	534	782	595	910	849
15	70	143	226	271	293	399	562	527	332	655	626	783	688	911	906
16	5	144	56	272	64	400	260	528	86	656	309	784	321	912	657
17	17	145	94	273	116	401	348	529	165	657	401	785	449	913	741
18	13	146	102	274	125	402	361	530	141	658	420	786	477	914	763
19	30	147	152	275	196	403	443	531	236	659	510	787	572	915	828
20	20	148	109	276	139	404	383	532	179	660	436	788	494	916	780
21	39	149	167	277	208	405	466	533	259	661	553	789	597	917	851
22	47	150	182	278	211	406	491	534	291	662	563	790	609	918	864
23	76	151	243	279	296	407	576	535	360	663	651	791	709	919	913
24	22	152	124	280	150	408	397	536	177	664	454	792	516	920	793
25	51	153	181	281	217	409	501	537	297	665	549	793	619	921	872
26	41	154	192	282	230	410	503	538	267	666	577	794	638	922	861
27	84	155	257	283	316	411	594	539	381	667	665	795	721	923	921
28	57	156	204	284	246	412	523	540	311	668	601	796	654	924	887
29	92	157	271	285	336	413	617	541	398	669	693	797	745	925	932
30	99	158	287	286	344	414	629	542	413	670	708	798	752	926	938
31	161	159	389	287	444	415	722	543	532	671	779	799	833	927	973
32	6	160	61	288	71	416	289	544	95	672	319	800	328	928	685
33	16	161	106	289	133	417	380	545	160	673	428	801	473	929	778
34	21	162	121	290	137	418	369	546	206	674	447	802	490	930	759
35	42	163	180	291	209	419	474	547	274	675	557	803	607	931	855
36	25	164	117	292	153	420	403	548	189	676	458	804	522	932	807
37	50	165	185	293	222	421	493	549	294	677	564	805	636	933	866
38	46	166	195	294	235	422	512	550	281	678	585	806	628	934	881
39	88	167	269	295	335	423	603	551	392	679	676	807	733	935	925

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40	29	168	140	296	168	424	426	552	219	680	492	808	545	936	815
41	55	169	203	297	242	425	521	553	307	681	588	809	646	937	884
42	62	170	213	298	253	426	537	554	320	682	616	810	662	938	891
43	96	171	280	299	345	427	627	555	416	683	696	811	748	939	942
44	67	172	229	300	262	428	554	556	334	684	630	812	678	940	902
45	107	173	300	301	371	429	637	557	435	685	714	813	772	941	935
46	111	174	313	302	373	430	658	558	448	686	734	814	774	942	949
47	169	175	410	303	470	431	746	559	540	687	803	815	850	943	981
48	35	176	146	304	176	432	450	560	240	688	514	816	568	944	838
49	59	177	216	305	261	433	539	561	326	689	614	817	667	945	895
50	72	178	234	306	273	434	565	562	343	690	641	818	691	946	908
51	110	179	305	307	367	435	650	563	442	691	717	819	765	947	946
52	77	180	247	308	286	436	578	564	354	692	656	820	702	948	916
53	119	181	337	309	384	437	672	565	461	693	730	821	781	949	954
54	126	182	347	310	402	438	692	566	469	694	747	822	795	950	963
55	184	183	432	311	485	439	764	567	566	695	822	823	860	951	986
56	83	184	265	312	310	440	598	568	366	696	673	824	723	952	923
57	129	185	356	313	411	441	683	569	480	697	761	825	804	953	959
58	138	186	363	314	419	442	710	570	498	698	770	826	811	954	969
59	200	187	451	315	509	443	801	571	586	699	834	827	879	955	997
60	148	188	385	316	438	444	729	572	508	700	789	828	824	956	976
61	207	189	481	317	527	445	806	573	613	701	854	829	889	957	990
62	225	190	497	318	550	446	813	574	625	702	871	830	900	958	1000
63	322	191	612	319	653	447	877	575	737	703	930	831	947	959	1016
64	8	192	65	320	78	448	325	576	112	704	324	832	353	960	724
65	23	193	118	321	156	449	386	577	187	705	457	833	526	961	784
66	26	194	135	322	166	450	424	578	198	706	486	834	502	962	814
67	53	195	202	323	239	451	519	579	301	707	592	835	644	963	882
68	34	196	144	324	175	452	446	580	244	708	504	836	559	964	829
69	58	197	214	325	255	453	525	581	314	709	611	837	670	965	890
70	66	198	223	326	266	454	548	582	333	710	623	838	664	966	899
71	103	199	303	327	358	455	642	583	429	711	718	839	766	967	944
72	37	200	159	328	188	456	476	584	228	712	528	840	593	968	844
73	74	201	220	329	275	457	567	585	342	713	621	841	682	969	909
74	60	202	237	330	282	458	560	586	352	714	643	842	698	970	905
75	113	203	331	331	387	459	663	587	455	715	738	843	785	971	957
76	80	204	251	332	298	460	591	588	365	716	660	844	711	972	920

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77	123	205	339	333	396	461	674	589	465	717	757	845	792	973	951
78	136	206	357	334	414	462	694	590	482	718	769	846	808	974	964
79	193	207	453	335	513	463	782	591	579	719	832	847	875	975	991
80	43	208	172	336	227	464	489	592	270	720	547	848	606	976	863
81	69	209	245	337	290	465	582	593	362	721	652	849	699	977	911
82	81	210	264	338	308	466	605	594	375	722	671	850	715	978	926
83	128	211	349	339	412	467	704	595	488	723	751	851	796	979	967
84	91	212	278	340	323	468	622	596	391	724	687	852	743	980	934
85	131	213	370	341	422	469	689	597	471	725	762	853	817	981	962
86	145	214	382	342	439	470	736	598	496	726	783	854	826	982	978
87	205	215	467	343	531	471	794	599	599	727	852	855	886	983	995
88	100	216	292	344	351	472	645	600	404	728	703	856	754	984	943
89	149	217	388	345	440	473	742	601	520	729	788	857	827	985	980
90	158	218	405	346	460	474	713	602	530	730	797	858	839	986	970
91	218	219	483	347	544	475	816	603	618	731	859	859	896	987	998
92	171	220	425	348	478	476	760	604	551	732	812	860	856	988	985
93	238	221	517	349	571	477	830	605	648	733	878	861	910	989	1003
94	250	222	535	350	584	478	847	606	659	734	888	862	917	990	1005
95	355	223	640	351	686	479	898	607	758	735	941	863	961	991	1014
96	52	224	194	352	254	480	505	608	288	736	583	864	639	992	876
97	87	225	272	353	327	481	615	609	390	737	675	865	720	993	931
98	97	226	283	354	346	482	634	610	400	738	695	866	740	994	940
99	142	227	372	355	427	483	716	611	518	739	777	867	818	995	971
100	108	228	306	356	364	484	655	612	421	740	725	868	767	996	952
101	151	229	395	357	452	485	732	613	506	741	791	869	845	997	977
102	162	230	407	358	472	486	749	614	536	742	800	870	853	998	982
103	233	231	507	359	558	487	821	615	633	743	867	871	904	999	1001
104	115	232	330	360	376	488	661	616	437	744	731	872	776	1000	958
105	164	233	418	361	462	489	753	617	543	745	810	873	840	1001	983
106	183	234	431	362	487	490	786	618	570	746	823	874	862	1002	993
107	249	235	529	363	580	491	846	619	649	747	885	875	912	1003	1008
108	197	236	459	364	511	492	768	620	581	748	837	876	873	1004	987
109	258	237	541	365	596	493	835	621	668	749	894	877	922	1005	1002
110	276	238	556	366	620	494	870	622	684	750	903	878	933	1006	1010
111	377	239	666	367	707	495	937	623	773	751	950	879	968	1007	1019
112	130	240	340	368	406	496	700	624	475	752	750	880	799	1008	966
113	191	241	434	369	499	497	798	625	561	753	825	881	869	1009	996

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114	201	242	464	370	515	498	775	626	590	754	842	882	880	1010	989
115	268	243	546	371	610	499	857	627	679	755	897	883	929	1011	1006
116	212	244	479	372	533	500	805	628	602	756	858	884	892	1012	999
117	279	245	569	373	624	501	874	629	690	757	907	885	939	1013	1013
118	295	246	587	374	600	502	865	630	712	758	915	886	924	1014	1009
119	394	247	680	375	739	503	928	631	787	759	955	887	979	1015	1018
120	231	248	495	376	552	504	836	632	635	760	868	888	901	1016	1004
121	302	249	589	377	647	505	883	633	705	761	918	889	945	1017	1011
122	318	250	608	378	669	506	893	634	728	762	927	890	953	1018	1015
123	415	251	697	379	719	507	948	635	809	763	965	891	972	1019	1020
124	338	252	632	380	677	508	919	636	744	764	936	892	956	1020	1017
125	430	253	726	381	771	509	960	637	819	765	975	893	988	1021	1021
126	463	254	756	382	790	510	974	638	841	766	984	894	994	1022	1022
127	573	255	843	383	848	511	992	639	914	767	1007	895	1012	1023	1023

[0068] Sequence Z2, having a sequence length of 512:

[0, 1, 4, 9, 2, 11, 7, 23, 3, 14, 17, 27, 10, 31, 34, 66, 5, 16, 12, 29, 19, 37, 45, 71, 21, 48, 39, 79, 54, 86, 92, 145, 6, 15, 20, 40, 24, 47, 44, 82, 28, 52, 59, 89, 63, 99, 103, 152, 33, 56, 68, 102, 72, 110, 116, 163, 78, 118, 126, 176, 134, 182, 196, 263, 8, 22, 25, 50, 32, 55, 62, 96, 35, 70, 57, 104, 75, 113, 124, 170, 41, 65, 76, 117, 85, 120, 132, 181, 93, 135, 143, 191, 153, 206, 215, 284, 49, 81, 90, 129, 100, 137, 146, 202, 106, 148, 162, 214, 174, 221, 234, 298, 119, 168, 177, 228, 186, 236, 247, 308, 201, 252, 262, 322, 273, 330, 349, 406, 13, 26, 38, 64, 30, 74, 69, 121, 43, 77, 84, 130, 91, 140, 142, 197, 53, 88, 95, 138, 101, 150, 161, 210, 114, 160, 169, 220, 180, 230, 242, 307, 58, 98, 111, 159, 108, 164, 172, 229, 128, 179, 187, 237, 199, 251, 259, 318, 133, 189, 203, 254, 213, 272, 279, 332, 226, 285, 289, 343, 303, 360, 368, 423, 61, 109, 123, 178, 131, 188, 195, 253, 144, 192, 205, 269, 216, 274, 286, 345, 154, 211, 225, 281, 235, 293, 300, 352, 245, 306, 314, 361, 327, 379, 388, 434, 171, 231, 239, 295, 255, 309, 316, 373, 268, 323, 331, 385, 346, 391, 398, 444, 275, 334, 350, 393, 359, 404, 412, 449, 367, 413, 421, 455, 431, 464, 473, 493, 18, 36, 42, 80, 46, 87, 94, 147, 51, 97, 105, 155, 112, 167, 175, 246, 60, 107, 115, 173, 127, 183, 185, 248, 136, 190, 200, 261, 212, 271, 276, 339, 67, 122, 125, 184, 139, 194, 204, 270, 151, 209, 217, 277, 224, 294, 296, 354, 158, 223, 232, 291, 241, 302, 312, 362, 257, 319, 324, 374, 335, 384, 395, 439, 73, 141, 149, 207, 157, 219, 227, 287, 166, 233, 238, 305, 249, 310, 321, 377, 198, 244, 256, 320, 264, 325, 336, 386, 283, 337, 347, 392, 358, 405, 411, 451, 218, 266, 278, 329, 290, 344, 355, 399, 297, 348, 363, 409, 375, 416, 426, 458, 315, 369, 378, 422, 387, 428, 418, 468, 396, 437, 445, 462, 448, 477, 481, 496, 83, 156, 165, 240, 193, 250, 258, 317, 208, 260, 267, 333, 282, 340, 353, 401, 222, 280, 288, 338, 301,

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351, 365, 407, 311, 370, 371, 415, 382, 425, 430, 463, 243, 299, 292, 356, 313, 366, 376, 419, 328, 381, 389, 429, 397, 433, 441, 470, 342, 390, 402, 438, 408, 446, 453, 475, 417, 450, 459, 484, 465, 486, 487, 501, 265, 304, 326, 380, 341, 383, 394, 435, 357, 403, 400, 443, 414, 447, 454, 479, 364, 410, 420, 457, 427, 452, 467, 482, 436, 469, 460, 488, 474, 490, 495, 504, 372, 424, 432, 461, 440, 466, 471, 489, 442, 472, 480, 494, 476, 491, 499, 507, 456, 483, 478, 497, 485, 500, 498, 506, 492, 502, 503, 508, 505, 509, 510, 511]

[0069] Table Z2, having a sequence length of 512:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	64	8	128	13	192	61	256	18	320	73	384	83	448	265
1	1	65	22	129	26	193	109	257	36	321	141	385	156	449	304
2	4	66	25	130	38	194	123	258	42	322	149	386	165	450	326
3	9	67	50	131	64	195	178	259	80	323	207	387	240	451	380
4	2	68	32	132	30	196	131	260	46	324	157	388	193	452	341
5	11	69	55	133	74	197	188	261	87	325	219	389	250	453	383
6	7	70	62	134	69	198	195	262	94	326	227	390	258	454	394
7	23	71	96	135	121	199	253	263	147	327	287	391	317	455	435
8	3	72	35	136	43	200	144	264	51	328	166	392	208	456	357
9	14	73	70	137	77	201	192	265	97	329	233	393	260	457	403
10	17	74	57	138	84	202	205	266	105	330	238	394	267	458	400
11	27	75	104	139	130	203	269	267	155	331	305	395	333	459	443
12	10	76	75	140	91	204	216	268	112	332	249	396	282	460	414
13	31	77	113	141	140	205	274	269	167	333	310	397	340	461	447
14	34	78	124	142	142	206	286	270	175	334	321	398	353	462	454
15	66	79	170	143	197	207	345	271	246	335	377	399	401	463	479
16	5	80	41	144	53	208	154	272	60	336	198	400	222	464	364
17	16	81	65	145	88	209	211	273	107	337	244	401	280	465	410
18	12	82	76	146	95	210	225	274	115	338	256	402	288	466	420
19	29	83	117	147	138	211	281	275	173	339	320	403	338	467	457
20	19	84	85	148	101	212	235	276	127	340	264	404	301	468	427
21	37	85	120	149	150	213	293	277	183	341	325	405	351	469	452
22	45	86	132	150	161	214	300	278	185	342	336	406	365	470	467
23	71	87	181	151	210	215	352	279	248	343	386	407	407	471	482

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24	21	88	93	152	114	216	245	280	136	344	283	408	311	472	436
25	48	89	135	153	160	217	306	281	190	345	337	409	370	473	469
26	39	90	143	154	169	218	314	282	200	346	347	410	371	474	460
27	79	91	191	155	220	219	361	283	261	347	392	411	415	475	488
28	54	92	153	156	180	220	327	284	212	348	358	412	382	476	474
29	86	93	206	157	230	221	379	285	271	349	405	413	425	477	490
30	92	94	215	158	242	222	388	286	276	350	411	414	430	478	495
31	145	95	284	159	307	223	434	287	339	351	451	415	463	479	504
32	6	96	49	160	58	224	171	288	67	352	218	416	243	480	372
33	15	97	81	161	98	225	231	289	122	353	266	417	299	481	424
34	20	98	90	162	111	226	239	290	125	354	278	418	292	482	432
35	40	99	129	163	159	227	295	291	184	355	329	419	356	483	461
36	24	100	100	164	108	228	255	292	139	356	290	420	313	484	440
37	47	101	137	165	164	229	309	293	194	357	344	421	366	485	466
38	44	102	146	166	172	230	316	294	204	358	355	422	376	486	471
39	82	103	202	167	229	231	373	295	270	359	399	423	419	487	489
40	28	104	106	168	128	232	268	296	151	360	297	424	328	488	442
41	52	105	148	169	179	233	323	297	209	361	348	425	381	489	472
42	59	106	162	170	187	234	331	298	217	362	363	426	389	490	480
43	89	107	214	171	237	235	385	299	277	363	409	427	429	491	494
44	63	108	174	172	199	236	346	300	224	364	375	428	397	492	476
45	99	109	221	173	251	237	391	301	294	365	416	429	433	493	491
46	103	110	234	174	259	238	398	302	296	366	426	430	441	494	499
47	152	111	298	175	318	239	444	303	354	367	458	431	470	495	507
48	33	112	119	176	133	240	275	304	158	368	315	432	342	496	456
49	56	113	168	177	189	241	334	305	223	369	369	433	390	497	483
50	68	114	177	178	203	242	350	306	232	370	378	434	402	498	478
51	102	115	228	179	254	243	393	307	291	371	422	435	438	499	497
52	72	116	186	180	213	244	359	308	241	372	387	436	408	500	485
53	110	117	236	181	272	245	404	309	302	373	428	437	446	501	500
54	116	118	247	182	279	246	412	310	312	374	418	438	453	502	498
55	163	119	308	183	332	247	449	311	362	375	468	439	475	503	506
56	78	120	201	184	226	248	367	312	257	376	396	440	417	504	492
57	118	121	252	185	285	249	413	313	319	377	437	441	450	505	502
58	126	122	262	186	289	250	421	314	324	378	445	442	459	506	503
59	176	123	322	187	343	251	455	315	374	379	462	443	484	507	508
60	134	124	273	188	303	252	431	316	335	380	448	444	465	508	505

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61	182	125	330	189	360	253	464	317	384	381	477	445	486	509	509
62	196	126	349	190	368	254	473	318	395	382	481	446	487	510	510
63	263	127	406	191	423	255	493	319	439	383	496	447	501	511	511

[0070] Sequence Z3, having a sequence length of 256:

[0, 1, 4, 9, 2, 11, 7, 22, 3, 14, 17, 26, 10, 30, 33, 60, 5, 16, 12, 28, 18, 35, 42, 64, 20, 44, 37, 71, 49, 76, 81, 122, 6, 15, 19, 38, 23, 43, 41, 73, 27, 47, 54, 78, 57, 86, 90, 126, 32, 51, 61, 89, 65, 95, 99, 133, 70, 101, 107, 141, 114, 147, 155, 192, 8, 21, 24, 46, 31, 50, 56, 84, 34, 63, 52, 91, 67, 97, 106, 137, 39, 59, 68, 100, 75, 103, 112, 146, 82, 115, 120, 152, 127, 162, 167, 201, 45, 72, 79, 109, 87, 116, 123, 159, 92, 124, 132, 166, 140, 170, 177, 207, 102, 135, 142, 173, 148, 179, 184, 212, 158, 186, 191, 217, 196, 220, 227, 243, 13, 25, 36, 58, 29, 66, 62, 104, 40, 69, 74, 110, 80, 118, 119, 156, 48, 77, 83, 117, 88, 125, 131, 163, 98, 130, 136, 169, 145, 175, 182, 211, 53, 85, 96, 129, 93, 134, 139, 174, 108, 144, 149, 180, 157, 185, 190, 216, 113, 151, 160, 188, 165, 195, 199, 222, 172, 202, 204, 224, 209, 231, 234, 247, 55, 94, 105, 143, 111, 150, 154, 187, 121, 153, 161, 194, 168, 197, 203, 225, 128, 164, 171, 200, 178, 205, 208, 229, 183, 210, 214, 232, 219, 236, 238, 249, 138, 176, 181, 206, 189, 213, 215, 235, 193, 218, 221, 237, 226, 239, 241, 250, 198, 223, 228, 240, 230, 242, 244, 251, 233, 245, 246, 252, 248, 253, 254, 255]

[0071] Table Z3, having a sequence length of 256:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	32	6	64	8	96	45	128	13	160	53	192	55	224	138
1	1	33	15	65	21	97	72	129	25	161	85	193	94	225	176
2	4	34	19	66	24	98	79	130	36	162	96	194	105	226	181
3	9	35	38	67	46	99	109	131	58	163	129	195	143	227	206
4	2	36	23	68	31	100	87	132	29	164	93	196	111	228	189
5	11	37	43	69	50	101	116	133	66	165	134	197	150	229	213
6	7	38	41	70	56	102	123	134	62	166	139	198	154	230	215
7	22	39	73	71	84	103	159	135	104	167	174	199	187	231	235
8	3	40	27	72	34	104	92	136	40	168	108	200	121	232	193
9	14	41	47	73	63	105	124	137	69	169	144	201	153	233	218
10	17	42	54	74	52	106	132	138	74	170	149	202	161	234	221
11	26	43	78	75	91	107	166	139	110	171	180	203	194	235	237

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12	10	44	57	76	67	108	140	140	80	172	157	204	168	236	226
13	30	45	86	77	97	109	170	141	118	173	185	205	197	237	239
14	33	46	90	78	106	110	177	142	119	174	190	206	203	238	241
15	60	47	126	79	137	111	207	143	156	175	216	207	225	239	250
16	5	48	32	80	39	112	102	144	48	176	113	208	128	240	198
17	16	49	51	81	59	113	135	145	77	177	151	209	164	241	223
18	12	50	61	82	68	114	142	146	83	178	160	210	171	242	228
19	28	51	89	83	100	115	173	147	117	179	188	211	200	243	240
20	18	52	65	84	75	116	148	148	88	180	165	212	178	244	230
21	35	53	95	85	103	117	179	149	125	181	195	213	205	245	242
22	42	54	99	86	112	118	184	150	131	182	199	214	208	246	244
23	64	55	133	87	146	119	212	151	163	183	222	215	229	247	251
24	20	56	70	88	82	120	158	152	98	184	172	216	183	248	233
25	44	57	101	89	115	121	186	153	130	185	202	217	210	249	245
26	37	58	107	90	120	122	191	154	136	186	204	218	214	250	246
27	71	59	141	91	152	123	217	155	169	187	224	219	232	251	252
28	49	60	114	92	127	124	196	156	145	188	209	220	219	252	248
29	76	61	147	93	162	125	220	157	175	189	231	221	236	253	253
30	81	62	155	94	167	126	227	158	182	190	234	222	238	254	254
31	122	63	192	95	201	127	243	159	211	191	247	223	249	255	255

[0072] Sequence Z4, having a sequence length of 128:

[0, 1, 4, 9, 2, 11, 7, 21, 3, 13, 16, 24, 10, 27, 30, 51, 5, 15, 12, 26, 17, 32, 37, 54, 19, 39, 33, 59, 43, 63, 66, 90, 6, 14, 18, 34, 22, 38, 36, 61, 25, 42, 47, 64, 49, 69, 72, 93, 29, 45, 52, 71, 55, 75, 77, 96, 58, 79, 83, 100, 86, 103, 106, 119, 8, 20, 23, 41, 28, 44, 48, 68, 31, 53, 46, 73, 56, 76, 82, 98, 35, 50, 57, 78, 62, 81, 85, 102, 67, 87, 89, 105, 94, 109, 111, 121, 40, 60, 65, 84, 70, 88, 91, 108, 74, 92, 95, 110, 99, 112, 114, 122, 80, 97, 101, 113, 104, 115, 116, 123, 107, 117, 118, 124, 120, 125, 126, 127]

[0073] Table Z4, having a sequence length of 128:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	16	5	32	6	48	29	64	8	80	35	96	40	112	80
1	1	17	15	33	14	49	45	65	20	81	50	97	60	113	97

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2	4	18	12	34	18	50	52	66	23	82	57	98	65	114	101
3	9	19	26	35	34	51	71	67	41	83	78	99	84	115	113
4	2	20	17	36	22	52	55	68	28	84	62	100	70	116	104
5	11	21	32	37	38	53	75	69	44	85	81	101	88	117	115
6	7	22	37	38	36	54	77	70	48	86	85	102	91	118	116
7	21	23	54	39	61	55	96	71	68	87	102	103	108	119	123
8	3	24	19	40	25	56	58	72	31	88	67	104	74	120	107
9	13	25	39	41	42	57	79	73	53	89	87	105	92	121	117
10	16	26	33	42	47	58	83	74	46	90	89	106	95	122	118
11	24	27	59	43	64	59	100	75	73	91	105	107	110	123	124
12	10	28	43	44	49	60	86	76	56	92	94	108	99	124	120
13	27	29	63	45	69	61	103	77	76	93	109	109	112	125	125
14	30	30	66	46	72	62	106	78	82	94	111	110	114	126	126
15	51	31	90	47	93	63	119	79	98	95	121	111	122	127	127

[0074] Sequence Z5, having a sequence length of 64:

[0, 1, 4, 8, 2, 10, 7, 19, 3, 12, 15, 21, 9, 24, 26, 39, 5, 14, 11, 23, 16, 27, 31, 41, 18, 33, 28, 44, 35, 46, 48, 57, 6, 13, 17, 29, 20, 32, 30, 45, 22, 34, 37, 47, 38, 49, 51, 58, 25, 36, 40, 50, 42, 52, 53, 59, 43, 54, 55, 60, 56, 61, 62, 63]

[0075] Table Z5, having a sequence length of 64:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	8	3	16	5	24	18	32	6	40	22	48	25	56	43
1	1	9	12	17	14	25	33	33	13	41	34	49	36	57	54
2	4	10	15	18	11	26	28	34	17	42	37	50	40	58	55
3	8	11	21	19	23	27	44	35	29	43	47	51	50	59	60
4	2	12	9	20	16	28	35	36	20	44	38	52	42	60	56
5	10	13	24	21	27	29	46	37	32	45	49	53	52	61	61
6	7	14	26	22	31	30	48	38	30	46	51	54	53	62	62
7	19	15	39	23	41	31	57	39	45	47	58	55	59	63	63

[0076] Second group of sequences (obtained by using a criterion that comprehensively considers performance obtained by List (list) whose sizes are respectively 1, 2, 4, 8, and 16, and preferentially

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considers performance of Lists 1 and 16).

[0077] Sequence Q6, having a sequence length of 1024:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 256, 36, 24, 20, 65, 34, 7, 129, 66, 512, 11, 40, 68, 13, 19, 130, 48, 14, 72, 257, 21, 132, 35, 258, 26, 513, 80, 37, 25, 22, 136, 38, 260, 96, 514, 264, 67, 41, 144, 28, 69, 42, 516, 49, 74, 272, 160, 520, 288, 528, 70, 131, 544, 192, 44, 81, 50, 73, 133, 15, 52, 320, 23, 134, 76, 82, 56, 384, 137, 97, 27, 39, 259, 84, 138, 145, 261, 29, 43, 98, 515, 88, 140, 30, 146, 71, 262, 265, 161, 576, 45, 100, 640, 51, 148, 46, 75, 266, 273, 517, 104, 162, 53, 193, 152, 77, 164, 768, 268, 274, 518, 54, 83, 57, 521, 112, 135, 78, 289, 194, 85, 276, 522, 58, 168, 139, 99, 86, 60, 280, 89, 290, 529, 524, 196, 141, 101, 147, 176, 142, 530, 31, 292, 200, 263, 90, 149, 321, 322, 102, 545, 105, 532, 92, 47, 296, 163, 150, 546, 208, 385, 267, 304, 324, 153, 165, 536, 386, 106, 55, 328, 577, 548, 113, 154, 79, 224, 108, 269, 166, 578, 519, 552, 195, 270, 641, 523, 580, 560, 275, 59, 169, 156, 291, 277, 114, 87, 197, 116, 170, 61, 531, 525, 642, 281, 278, 526, 177, 293, 388, 91, 584, 769, 198, 172, 120, 201, 336, 62, 282, 143, 103, 178, 294, 93, 644, 202, 592, 323, 392, 297, 151, 209, 284, 180, 107, 94, 204, 770, 648, 298, 352, 533, 325, 608, 155, 210, 400, 305, 547, 300, 109, 184, 534, 772, 326, 656, 115, 167, 157, 537, 225, 306, 329, 110, 117, 212, 171, 330, 226, 549, 776, 538, 387, 308, 216, 416, 672, 337, 158, 271, 118, 279, 550, 332, 579, 540, 389, 173, 121, 553, 199, 784, 179, 228, 338, 312, 704, 390, 122, 554, 581, 393, 283, 174, 203, 340, 448, 561, 353, 394, 181, 527, 582, 556, 63, 295, 285, 232, 124, 643, 585, 562, 205, 182, 286, 299, 354, 211, 401, 185, 396, 344, 586, 645, 593, 535, 240, 206, 95, 327, 564, 800, 402, 356, 307, 301, 417, 186, 404, 213, 418, 539, 568, 594, 649, 771, 227, 832, 588, 646, 302, 111, 360, 214, 551, 609, 896, 188, 309, 449, 331, 217, 408, 229, 541, 159, 420, 596, 650, 773, 310, 333, 119, 339, 218, 368, 657, 230, 391, 542, 610, 233, 313, 334, 774, 658, 612, 175, 123, 314, 555, 600, 583, 341, 450, 652, 220, 557, 424, 395, 777, 673, 355, 287, 183, 234, 125, 241, 563, 660, 558, 616, 778, 674, 316, 342, 345, 397, 452, 432, 207, 785, 403, 357, 187, 587, 565, 664, 624, 780, 236, 126, 242, 398, 705, 346, 456, 358, 405, 303, 569, 595, 244, 786, 189, 676, 589, 566, 647, 361, 706, 215, 348, 419, 406, 464, 801, 590, 409, 680, 788, 362, 570, 597, 572, 311, 708, 219, 598, 601, 651, 611, 410, 802, 421, 792, 231, 602, 653, 248, 688, 369, 190, 480, 335, 364, 613, 659, 654, 422, 315, 221, 370, 425, 235, 451, 412, 343, 372, 317, 614, 775, 222, 543, 426, 453, 237, 559, 833, 804, 712, 834, 661, 808, 779, 617, 604, 433, 720, 816, 836, 347, 897, 243, 662, 454, 318, 675, 376, 567, 618, 665, 736, 898, 840, 781, 428, 625, 238, 359, 458, 399, 245, 434, 677, 457, 591, 349, 127, 666, 787, 678, 620, 782, 626, 571, 191, 407, 350, 436, 465, 246, 460, 363, 681, 599, 249, 411, 668, 707, 573, 789, 803, 790, 682, 365, 440, 628, 709, 374, 423, 466, 250, 371, 689, 793, 481, 413, 603, 574, 366, 468, 655, 900, 805, 429, 615, 710, 252, 373, 848, 684, 713, 605, 690, 632, 482, 794, 806, 427, 414, 663, 835, 904, 809, 714, 619, 796, 472, 223, 455, 692, 721, 837, 716, 864, 810, 606, 912, 722, 696, 377, 817, 435, 812, 319, 484,

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430, 621, 838, 667, 239, 461, 378, 459, 627, 622, 437, 488, 380, 818, 496, 669, 679, 724, 841, 629, 351, 467, 438, 737, 251, 462, 442, 441, 469, 247, 683, 842, 738, 899, 670, 783, 849, 820, 728, 928, 791, 367, 901, 630, 685, 844, 633, 711, 253, 691, 824, 902, 686, 740, 850, 375, 444, 470, 483, 415, 485, 905, 795, 473, 634, 744, 852, 960, 865, 693, 797, 906, 715, 807, 474, 636, 694, 254, 717, 575, 811, 697, 866, 798, 379, 431, 913, 607, 489, 723, 486, 908, 718, 813, 476, 856, 839, 725, 698, 914, 752, 868, 819, 814, 439, 929, 490, 623, 671, 739, 916, 872, 381, 930, 497, 821, 463, 726, 961, 843, 492, 631, 729, 700, 443, 741, 845, 920, 382, 822, 851, 730, 498, 880, 742, 445, 903, 687, 825, 932, 471, 635, 846, 500, 745, 962, 826, 732, 446, 936, 255, 853, 475, 753, 695, 867, 637, 907, 487, 746, 828, 854, 504, 799, 909, 857, 964, 719, 477, 915, 699, 493, 748, 944, 858, 873, 638, 968, 478, 383, 754, 869, 491, 910, 815, 917, 727, 870, 701, 931, 499, 860, 756, 922, 731, 976, 918, 874, 823, 502, 933, 743, 760, 881, 494, 702, 921, 827, 876, 501, 847, 992, 934, 447, 733, 882, 937, 963, 747, 505, 855, 924, 734, 829, 965, 884, 938, 506, 749, 945, 966, 755, 859, 940, 830, 911, 871, 639, 888, 479, 946, 750, 969, 508, 861, 757, 970, 919, 875, 862, 758, 948, 977, 923, 972, 761, 877, 952, 495, 703, 935, 978, 883, 762, 503, 925, 878, 735, 993, 885, 939, 994, 980, 926, 764, 941, 967, 886, 831, 947, 507, 889, 984, 751, 942, 996, 971, 890, 509, 949, 973, 1000, 892, 950, 863, 759, 1008, 510, 979, 953, 763, 974, 954, 879, 981, 982, 927, 995, 765, 956, 887, 985, 997, 986, 943, 891, 998, 766, 511, 988, 1001, 951, 1002, 893, 975, 894, 1009, 955, 1004, 1010, 957, 983, 958, 987, 1012, 999, 1016, 767, 989, 1003, 990, 1005, 959, 1011, 1013, 895, 1006, 1014, 1017, 1018, 991, 1020, 1007, 1015, 1019, 1021, 1022, 1023]

[0078] Table Q6, having a sequence length of 1024:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequcnce number
0	0	128	518	256	770	384	609	512	480	640	663	768	819	896	966
1	1	129	54	257	648	385	896	513	335	641	835	769	814	897	755
2	2	130	83	258	298	386	188	514	364	642	904	770	439	898	859
3	4	131	57	259	352	387	309	515	613	643	809	771	929	899	940
4	8	132	521	260	533	388	449	516	659	644	714	772	490	900	830
5	16	133	112	261	325	389	331	517	654	645	619	773	623	901	911
6	32	134	135	262	608	390	217	518	422	646	796	774	671	902	871
7	3	135	78	263	155	391	408	519	315	647	472	775	739	903	639
8	5	136	289	264	210	392	229	520	221	648	223	776	916	904	888

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9	64	137	194	265	400	393	541	521	370	649	455	777	872	905	479
10	9	138	85	266	305	394	159	522	425	650	692	778	381	906	946
11	6	139	276	267	547	395	420	523	235	651	721	779	930	907	750
12	17	140	522	268	300	396	596	524	451	652	837	780	497	908	969
13	10	141	58	269	109	397	650	525	412	653	716	781	821	909	508
14	18	142	168	270	184	398	773	526	343	654	864	782	463	910	861
15	128	143	139	271	534	399	310	527	372	655	810	783	726	911	757
16	12	144	99	272	772	400	333	528	317	656	606	784	961	912	970
17	33	145	86	273	326	401	119	529	614	657	912	785	843	913	919
18	256	146	60	274	656	402	339	530	775	658	722	786	492	914	875
19	36	147	280	275	115	403	218	531	222	659	696	787	631	915	862
20	24	148	89	276	167	404	368	532	543	660	377	788	729	916	758
21	20	149	290	277	157	405	657	533	426	661	817	789	700	917	948
22	65	150	529	278	537	406	230	534	453	662	435	790	443	918	977
23	34	151	524	279	225	407	391	535	237	663	812	791	741	919	923
24	7	152	196	280	306	408	542	536	559	664	319	792	845	920	972
25	129	153	141	281	329	409	610	537	833	665	484	793	920	921	761
26	66	154	101	282	110	410	233	538	804	666	430	794	382	922	877
27	512	155	147	283	117	411	313	539	712	667	621	795	822	923	952
28	11	156	176	284	212	412	334	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	774	541	661	669	667	797	730	925	703
30	68	158	530	286	330	414	658	542	808	670	239	798	498	926	935
31	13	159	31	287	226	415	612	543	779	671	461	799	880	927	978
32	19	160	292	288	549	416	175	544	617	672	378	800	742	928	883
33	130	161	200	289	776	417	123	545	604	673	459	801	445	929	762
34	48	162	263	290	538	418	314	546	433	674	627	802	903	930	503
35	14	163	90	291	387	419	555	547	720	675	622	803	687	931	925
36	72	164	149	292	308	420	600	548	816	676	437	804	825	932	878
37	257	165	321	293	216	421	583	549	836	677	488	805	932	933	735
38	21	166	322	294	416	422	341	550	347	678	380	806	471	934	993
39	132	167	102	295	672	423	450	551	897	679	818	807	635	935	885
40	35	168	545	296	337	424	652	552	243	680	496	808	846	936	939
41	258	169	105	297	158	425	220	553	662	681	669	809	500	937	994
42	26	170	532	298	271	426	557	554	454	682	679	810	745	938	980
43	513	171	92	299	118	427	424	555	318	683	724	811	962	939	926
44	80	172	47	300	279	428	395	556	675	684	841	812	826	940	764
45	37	173	296	301	550	429	777	557	376	685	629	813	732	941	941

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46	25	174	163	302	332	430	673	558	567	686	351	814	446	942	967
47	22	175	150	303	579	431	355	559	618	687	467	815	936	943	886
48	136	176	546	304	540	432	287	560	665	688	438	816	255	944	831
49	38	177	208	305	389	433	183	561	736	689	737	817	853	945	947
50	260	178	385	306	173	434	234	562	898	690	251	818	475	946	507
51	96	179	267	307	121	435	125	563	840	691	462	819	753	947	889
52	514	180	304	308	553	436	241	564	781	692	442	820	695	948	984
53	264	181	324	309	199	437	563	565	428	693	441	821	867	949	751
54	67	182	153	310	784	438	660	566	625	694	469	822	637	950	942
55	41	183	165	311	179	439	558	567	238	695	247	823	907	951	996
56	144	184	536	312	228	440	616	568	359	696	683	824	487	952	971
57	28	185	386	313	338	441	778	569	458	697	842	825	746	953	890
58	69	186	106	314	312	442	674	570	399	698	738	826	828	954	509
59	42	187	55	315	704	443	316	571	245	699	899	827	854	955	949
60	516	188	328	316	390	444	342	572	434	700	670	828	504	956	973
61	49	189	577	317	122	445	345	573	677	701	783	829	799	957	1000
62	74	190	548	318	554	446	397	574	457	702	849	830	909	958	892
63	272	191	113	319	581	447	452	575	591	703	820	831	857	959	950
64	160	192	154	320	393	448	432	576	349	704	728	832	964	960	863
65	520	193	79	321	283	449	207	577	127	705	928	833	719	961	759
66	288	194	224	322	174	450	785	578	666	706	791	834	477	962	1008
67	528	195	108	323	203	451	403	579	787	707	367	835	915	963	510
68	70	196	269	324	340	452	357	580	678	708	901	836	699	964	979
69	131	197	166	325	448	453	187	581	620	709	630	837	493	965	953
70	544	198	578	326	561	454	587	582	782	710	685	838	748	966	763
71	192	199	519	327	353	455	565	583	626	711	844	839	944	967	974
72	44	200	552	328	394	456	664	584	571	712	633	840	858	968	954
73	81	201	195	329	181	457	624	585	191	713	711	841	873	969	879
74	50	202	270	330	527	458	780	586	407	714	253	842	638	970	981
75	73	203	641	331	582	459	236	587	350	715	691	843	968	971	982
76	133	204	523	332	556	460	126	588	436	716	824	844	478	972	927
77	15	205	580	333	63	461	242	589	465	717	902	845	383	973	995
78	52	206	560	334	295	462	398	590	246	718	686	846	754	974	765
79	320	207	275	335	285	463	705	591	460	719	740	847	869	975	956
80	23	208	59	336	232	464	346	592	363	720	850	848	491	976	887
81	134	209	169	337	124	465	456	593	681	721	375	849	910	977	985
82	76	210	156	338	643	466	358	594	599	722	444	850	815	978	997

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83	82	211	291	339	585	467	405	595	249	723	470	851	917	979	986
84	56	212	277	340	562	468	303	596	411	724	483	852	727	980	943
85	384	213	114	341	205	469	569	597	668	725	415	853	870	981	891
86	137	214	87	342	182	470	595	598	707	726	485	854	701	982	998
87	97	215	197	343	286	471	244	599	573	727	905	855	931	983	766
88	27	216	116	344	299	472	786	600	789	728	795	856	499	984	511
89	39	217	170	345	354	473	189	601	803	729	473	857	860	985	988
90	259	218	61	346	211	474	676	602	790	730	634	858	756	986	1001
91	84	219	531	347	401	475	589	603	682	731	744	859	922	987	951
92	138	220	525	348	185	476	566	604	365	732	852	860	731	988	1002
93	145	221	642	349	396	477	647	605	440	733	960	861	976	989	893
94	261	222	281	350	344	478	361	606	628	734	865	862	918	990	975
95	29	223	278	351	586	479	706	607	709	735	693	863	874	991	894
96	43	224	526	352	645	480	215	608	374	736	797	864	823	992	1009
97	98	225	177	353	593	481	348	609	423	737	906	865	502	993	955
98	515	226	293	354	535	482	419	610	466	738	715	866	933	994	1004
99	88	227	388	355	240	483	406	611	250	739	807	867	743	995	1010
100	140	228	91	356	206	484	464	612	371	740	474	868	760	996	957
101	30	229	584	357	95	485	801	613	689	741	636	869	881	997	983
102	146	230	769	358	327	486	590	614	793	742	694	870	494	998	958
103	71	231	198	359	564	487	409	615	481	743	254	871	702	999	987
104	262	232	172	360	800	488	680	616	413	744	717	872	921	1000	1012
105	265	233	120	361	402	489	788	617	603	745	575	873	827	1001	999
106	161	234	201	362	356	490	362	618	574	746	811	874	876	1002	1016
107	576	235	336	363	307	491	570	619	366	747	697	875	501	1003	767
108	45	236	62	364	301	492	597	620	468	748	866	876	847	1004	989
109	100	237	282	365	417	493	572	621	655	749	798	877	992	1005	1003
110	640	238	143	366	186	494	311	622	900	750	379	878	934	1006	990
111	51	239	103	367	404	495	708	623	805	751	431	879	447	1007	1005
112	148	240	178	368	213	496	219	624	429	752	913	880	733	1008	959
113	46	241	294	369	418	497	598	625	615	753	607	881	882	1009	1011
114	75	242	93	370	539	498	601	626	710	754	489	882	937	1010	1013
115	266	243	644	371	568	499	651	627	252	755	723	883	963	1011	895
116	273	244	202	372	594	500	611	628	373	756	486	884	747	1012	1006
117	517	245	592	373	649	501	410	629	848	757	908	885	505	1013	1014
118	104	246	323	374	771	502	802	630	684	758	718	886	855	1014	1017
119	162	247	392	375	227	503	421	631	713	759	813	887	924	1015	1018

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120	53	248	297	376	832	504	792	632	605	760	476	888	734	1016	991
121	193	249	151	377	588	505	231	633	690	761	856	889	829	1017	1020
122	152	250	209	378	646	506	602	634	632	762	839	890	965	1018	1007
123	77	251	284	379	302	507	653	635	482	763	725	891	884	1019	1015
124	164	252	180	380	111	508	248	636	794	764	698	892	938	1020	1019
125	768	253	107	381	360	509	688	637	806	765	914	893	506	1021	1021
126	268	254	94	382	214	510	369	638	427	766	752	894	749	1022	1022
127	274	255	204	383	551	511	190	639	414	767	868	895	945	1023	1023

[0079] Sequence Q7, having a sequence length of 512:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 256, 36, 24, 20, 65, 34, 7, 129, 66, 11, 40, 68, 13, 19, 130, 48, 14, 72, 257, 21, 132, 35, 258, 26, 80, 37, 25, 22, 136, 38, 260, 96, 264, 67, 41, 144, 28, 69, 42, 49, 74, 272, 160, 288, 70, 131, 192, 44, 81, 50, 73, 133, 15, 52, 320, 23, 134, 76, 82, 56, 384, 137, 97, 27, 39, 259, 84, 138, 145, 261, 29, 43, 98, 88, 140, 30, 146, 71, 262, 265, 161, 45, 100, 51, 148, 46, 75, 266, 273, 104, 162, 53, 193, 152, 77, 164, 268, 274, 54, 83, 57, 112, 135, 78, 289, 194, 85, 276, 58, 168, 139, 99, 86, 60, 280, 89, 290, 196, 141, 101, 147, 176, 142, 31, 292, 200, 263, 90, 149, 321, 322, 102, 105, 92, 47, 296, 163, 150, 208, 385, 267, 304, 324, 153, 165, 386, 106, 55, 328, 113, 154, 79, 224, 108, 269, 166, 195, 270, 275, 59, 169, 156, 291, 277, 114, 87, 197, 116, 170, 61, 281, 278, 177, 293, 388, 91, 198, 172, 120, 201, 336, 62, 282, 143, 103, 178, 294, 93, 202, 323, 392, 297, 151, 209, 284, 180, 107, 94, 204, 298, 352, 325, 155, 210, 400, 305, 300, 109, 184, 326, 115, 167, 157, 225, 306, 329, 110, 117, 212, 171, 330, 226, 387, 308, 216, 416, 337, 158, 271, 118, 279, 332, 389, 173, 121, 199, 179, 228, 338, 312, 390, 122, 393, 283, 174, 203, 340, 448, 353, 394, 181, 63, 295, 285, 232, 124, 205, 182, 286, 299, 354, 211, 401, 185, 396, 344, 240, 206, 95, 327, 402, 356, 307, 301, 417, 186, 404, 213, 418, 227, 302, 111, 360, 214, 188, 309, 449, 331, 217, 408, 229, 159, 420, 310, 333, 119, 339, 218, 368, 230, 391, 233, 313, 334, 175, 123, 314, 341, 450, 220, 424, 395, 355, 287, 183, 234, 125, 241, 316, 342, 345, 397, 452, 432, 207, 403, 357, 187, 236, 126, 242, 398, 346, 456, 358, 405, 303, 244, 189, 361, 215, 348, 419, 406, 464, 409, 362, 311, 219, 410, 421, 231, 248, 369, 190, 480, 335, 364, 422, 315, 221, 370, 425, 235, 451, 412, 343, 372, 317, 222, 426, 453, 237, 433, 347, 243, 454, 318, 376, 428, 238, 359, 458, 399, 245, 434, 457, 349, 127, 191, 407, 350, 436, 465, 246, 460, 363, 249, 411, 365, 440, 374, 423, 466, 250, 371, 481, 413, 366, 468, 429, 252, 373, 482, 427, 414, 472, 223, 455, 377, 435, 319, 484, 430, 239, 461, 378, 459, 437, 488, 380, 496, 351, 467, 438, 251, 462, 442, 441, 469, 247, 367, 253, 375, 444, 470, 483, 415, 485, 473, 474, 254, 379, 431, 489, 486, 476, 439, 490, 381, 497, 463, 492, 443, 382, 498, 445, 471, 500, 446, 255, 475, 487, 504, 477, 493, 478, 383, 491, 499, 502, 494, 501, 447, 505, 506, 479, 508, 495, 503, 507, 509, 510, 511]

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[0080] Table Q7, having a sequence length of 512:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	64	192	128	139	192	388	256	338	320	313	384	343	448	380
1	1	65	44	129	99	193	91	257	312	321	334	385	372	449	496
2	2	66	81	130	86	194	198	258	390	322	175	386	317	450	351
3	4	67	50	131	60	195	172	259	122	323	123	387	222	451	467
4	8	68	73	132	280	196	120	260	393	324	314	388	426	452	438
5	16	69	133	133	89	197	201	261	283	325	341	389	453	453	251
6	32	70	15	134	290	198	336	262	174	326	450	390	237	454	462
7	3	71	52	135	196	199	62	263	203	327	220	391	433	455	442
8	5	72	320	136	141	200	282	264	340	328	424	392	347	456	441
9	64	73	23	137	101	201	143	265	448	329	395	393	243	457	469
10	9	74	134	138	147	202	103	266	353	330	355	394	454	458	247
11	6	75	76	139	176	203	178	267	394	331	287	395	318	459	367
12	17	76	82	140	142	204	294	268	181	332	183	396	376	460	253
13	10	77	56	141	31	205	93	269	63	333	234	397	428	461	375
14	18	78	384	142	292	206	202	270	295	334	125	398	238	462	444
15	128	79	137	143	200	207	323	271	285	335	241	399	359	463	470
16	12	80	97	144	263	208	392	272	232	336	316	400	458	464	483
17	33	81	27	145	90	209	297	273	124	337	342	401	399	465	415
18	256	82	39	146	149	210	151	274	205	338	345	402	245	466	485
19	36	83	259	147	321	211	209	275	182	339	397	403	434	467	473
20	24	84	84	148	322	212	284	276	286	340	452	404	457	468	474
21	20	85	138	149	102	213	180	277	299	341	432	405	349	469	254
22	65	86	145	150	105	214	107	278	354	342	207	406	127	470	379
23	34	87	261	151	92	215	94	279	211	343	403	407	191	471	431
24	7	88	29	152	47	216	204	280	401	344	357	408	407	472	489
25	129	89	43	153	296	217	298	281	185	345	187	409	350	473	486
26	66	90	98	154	163	218	352	282	396	346	236	410	436	474	476
27	11	91	88	155	150	219	325	283	344	347	126	411	465	475	439
28	40	92	140	156	208	220	155	284	240	348	242	412	246	476	490
29	68	93	30	157	385	221	210	285	206	349	398	413	460	477	381
30	13	94	146	158	267	222	400	286	95	350	346	414	363	478	497

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31	19	95	71	159	304	223	305	287	327	351	456	415	249	479	463
32	130	96	262	160	324	224	300	288	402	352	358	416	411	480	492
33	48	97	265	161	153	225	109	289	356	353	405	417	365	481	443
34	14	98	161	162	165	226	184	290	307	354	303	418	440	482	382
35	72	99	45	163	386	227	326	291	301	355	244	419	374	483	498
36	257	100	100	164	106	228	115	292	417	356	189	420	423	484	445
37	21	101	51	165	55	229	167	293	186	357	361	421	466	485	471
38	132	102	148	166	328	230	157	294	404	358	215	422	250	486	500
39	35	103	46	167	113	231	225	295	213	359	348	423	371	487	446
40	258	104	75	168	154	232	306	296	418	360	419	424	481	488	255
41	26	105	266	169	79	233	329	297	227	361	406	425	413	489	475
42	80	106	273	170	224	234	110	298	302	362	464	426	366	490	487
43	37	107	104	171	108	235	117	299	111	363	409	427	468	491	504
44	25	108	162	172	269	236	212	300	360	364	362	428	429	492	477
45	22	109	53	173	166	237	171	301	214	365	311	429	252	493	493
46	136	110	193	174	195	238	330	302	188	366	219	430	373	494	478
47	38	111	152	175	270	239	226	303	309	367	410	431	482	495	383
48	260	112	77	176	275	240	387	304	449	368	421	432	427	496	491
49	96	113	164	177	59	241	308	305	331	369	231	433	414	497	499
50	264	114	268	178	169	242	216	306	217	370	248	434	472	498	502
51	67	115	274	179	156	243	416	307	408	371	369	435	223	499	494
52	41	116	54	180	291	244	337	308	229	372	190	436	455	500	501
53	144	117	83	181	277	245	158	309	159	373	480	437	377	501	447
54	28	118	57	182	114	246	271	310	420	374	335	438	435	502	505
55	69	119	112	183	87	247	118	311	310	375	364	439	319	503	506
56	42	120	135	184	197	248	279	312	333	376	422	440	484	504	479
57	49	121	78	185	116	249	332	313	119	377	315	441	430	505	508
58	74	122	289	186	170	250	389	314	339	378	221	442	239	506	495
59	272	123	194	187	61	251	173	315	218	379	370	443	461	507	503
60	160	124	85	188	281	252	121	316	368	380	425	444	378	508	507
61	288	125	276	189	278	253	199	317	230	381	235	445	459	509	509
62	70	126	58	190	177	254	179	318	391	382	451	446	437	510	510
63	131	127	168	191	293	255	228	319	233	383	412	447	488	511	511

[0081] Sequence Q8, having a sequence length of 256:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 36, 24, 20, 65, 34, 7, 129, 66, 11, 40, 68, 13, 19, 130, 48, 14, 72, 21, 132, 35, 26, 80, 37, 25, 22, 136, 38, 96, 67, 41, 144, 28, 69, 42,

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49, 74, 160, 70, 131, 192, 44, 81, 50, 73, 133, 15, 52, 23, 134, 76, 82, 56, 137, 97, 27, 39, 84, 138, 145, 29, 43, 98, 88, 140, 30, 146, 71, 161, 45, 100, 51, 148, 46, 75, 104, 162, 53, 193, 152, 77, 164, 54, 83, 57, 112, 135, 78, 194, 85, 58, 168, 139, 99, 86, 60, 89, 196, 141, 101, 147, 176, 142, 31, 200, 90, 149, 102, 105, 92, 47, 163, 150, 208, 153, 165, 106, 55, 113, 154, 79, 224, 108, 166, 195, 59, 169, 156, 114, 87, 197, 116, 170, 61, 177, 91, 198, 172, 120, 201, 62, 143, 103, 178, 93, 202, 151, 209, 180, 107, 94, 204, 155, 210, 109, 184, 115, 167, 157, 225, 110, 117, 212, 171, 226, 216, 158, 118, 173, 121, 199, 179, 228, 122, 174, 203, 181, 63, 232, 124, 205, 182, 211, 185, 240, 206, 95, 186, 213, 227, 111, 214, 188, 217, 229, 159, 119, 218, 230, 233, 175, 123, 220, 183, 234, 125, 241, 207, 187, 236, 126, 242, 244, 189, 215, 219, 231, 248, 190, 221, 235, 222, 237, 243, 238, 245, 127, 191, 246, 249, 250, 252, 223, 239, 251, 247, 253, 254, 255]

[0082] Table Q8, having a sequence length of 256:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	32	48	64	52	96	152	128	163	160	178	192	203	224	207
1	1	33	14	65	23	97	77	129	150	161	93	193	181	225	187
2	2	34	72	66	134	98	164	130	208	162	202	194	63	226	236
3	4	35	21	67	76	99	54	131	153	163	151	195	232	227	126
4	8	36	132	68	82	100	83	132	165	164	209	196	124	228	242
5	16	37	35	69	56	101	57	133	106	165	180	197	205	229	244
6	32	38	26	70	137	102	112	134	55	166	107	198	182	230	189
7	3	39	80	71	97	103	135	135	113	167	94	199	211	231	215
8	5	40	37	72	27	104	78	136	154	168	204	200	185	232	219
9	64	41	25	73	39	105	194	137	79	169	155	201	240	233	231
10	9	42	22	74	84	106	85	138	224	170	210	202	206	234	248
11	6	43	136	75	138	107	58	139	108	171	109	203	95	235	190
12	17	44	38	76	145	108	168	140	166	172	184	204	186	236	221
13	10	45	96	77	29	109	139	141	195	173	115	205	213	237	235
14	18	46	67	78	43	110	99	142	59	174	167	206	227	238	222
15	128	47	41	79	98	111	86	143	169	175	157	207	111	239	237
16	12	48	144	80	88	112	60	144	156	176	225	208	214	240	243
17	33	49	28	81	140	113	89	145	114	177	110	209	188	241	238
18	36	50	69	82	30	114	196	146	87	178	117	210	217	242	245

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19	24	51	42	83	146	115	141	142	197	179	212	211	229	243	127
20	20	52	49	84	71	116	101	148	116	180	171	212	159	244	191
21	65	53	74	85	161	117	147	149	170	181	226	213	119	245	246
22	34	54	160	86	45	118	176	150	61	182	216	214	218	246	249
23	7	55	70	87	100	119	142	151	177	183	158	215	230	247	250
24	129	56	131	88	51	120	31	152	91	184	118	216	233	248	252
25	66	57	192	89	148	121	200	153	198	185	173	217	175	249	223
26	11	58	44	90	46	122	90	154	172	186	121	218	123	250	239
27	40	59	81	91	75	123	149	155	120	187	199	219	220	251	251
28	68	60	50	92	104	124	102	156	201	188	179	220	183	252	247
29	13	61	73	93	162	125	105	157	62	189	228	221	234	253	253
30	19	62	133	94	53	126	92	158	143	190	122	222	125	254	254
31	130	63	15	95	193	127	47	159	103	191	174	223	241	255	255

[0083] Sequence Q9, having a sequence length of 128:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 12, 33, 36, 24, 20, 65, 34, 7, 66, 11, 40, 68, 13, 19, 48, 14, 72, 21, 35, 26, 80, 37, 25, 22, 38, 96, 67, 41, 28, 69, 42, 49, 74, 70, 44, 81, 50, 73, 15, 52, 23, 76, 82, 56, 97, 27, 39, 84, 29, 43, 98, 88, 30, 71, 45, 100, 51, 46, 75, 104, 53, 77, 54, 83, 57, 112, 78, 85, 58, 99, 86, 60, 89, 101, 31, 90, 102, 105, 92, 47, 106, 55, 113, 79, 108, 59, 114, 87, 116, 61, 91, 120, 62, 103, 93, 107, 94, 109, 115, 110, 117, 118, 121, 122, 63, 124, 95, 111, 119, 123, 125, 126, 127]

[0084] Table Q9, having a sequence length of 128:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	16	33	32	21	48	70	64	43	80	112	96	55	112	109
1	1	17	36	33	35	49	44	65	98	81	78	97	113	113	115
2	2	18	24	34	26	50	81	66	88	82	85	98	79	114	110
3	4	19	20	35	80	51	50	67	30	83	58	99	108	115	117
4	8	20	65	36	37	52	73	68	71	84	99	100	59	116	118
5	16	21	34	37	25	53	15	69	45	85	86	101	114	117	121
6	32	22	7	38	22	54	52	70	100	86	60	102	87	118	122

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7	3	23	66	39	38	55	23	71	51	87	89	103	116	119	63
8	5	24	11	40	96	56	76	72	46	88	101	104	61	120	124
9	64	25	40	41	67	57	82	73	75	89	31	105	91	121	95
10	9	26	68	42	41	58	56	74	104	90	90	106	120	122	111
11	6	27	13	43	28	59	97	75	53	91	102	107	62	123	119
12	17	28	19	44	69	60	27	76	77	92	105	108	103	124	123
13	10	29	48	45	42	61	39	77	54	93	92	109	93	125	125
14	18	30	14	46	49	62	84	78	83	94	47	110	107	126	126
15	12	31	72	47	74	63	29	79	57	95	106	111	94	127	127

[0085] Sequence Q10, having a sequence length of 64:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 9, 6, 17, 10, 18, 12, 33, 36, 24, 20, 34, 7, 11, 40, 13, 19, 48, 14, 21, 35, 26, 37, 25, 22, 38, 41, 28, 42, 49, 44, 50, 15, 52, 23, 56, 27, 39, 29, 43, 30, 45, 51, 46, 53, 54, 57, 58, 60, 31, 47, 55, 59, 61, 62, 63]

[0086] Table Q10, having a sequence length of 64:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	8	5	16	36	24	19	32	22	40	15	48	30	56	60
1	1	9	9	17	24	25	48	33	38	41	52	49	45	57	31
2	2	10	6	18	20	26	14	34	41	42	23	50	51	58	47
3	4	11	17	19	34	27	21	35	28	43	56	51	46	59	55
4	8	12	10	20	7	28	35	36	42	44	27	52	53	60	59
5	16	13	18	21	11	29	26	37	49	45	39	53	54	61	61
6	32	14	12	22	40	30	37	38	44	46	29	54	57	62	62
7	3	15	33	23	13	31	25	39	50	47	43	55	58	63	63

[0087] Sequence Z6, having a sequence length of 1024:

[0, 1, 2, 7, 3, 8, 11, 24, 4, 10, 13, 28, 16, 31, 35, 77, 5, 12, 14, 32, 21, 38, 47, 80, 20, 46, 42, 88, 57, 95, 101, 159, 6, 17, 23, 40, 19, 45, 49, 89, 29, 55, 59, 96, 72, 108, 113, 172, 34, 61, 74, 111, 78, 120, 129, 187, 84, 131, 141, 208, 146, 218, 236, 333, 9, 22, 26, 54, 30, 58, 68, 103, 36, 75, 62, 114, 82, 123, 135, 193, 44, 73, 83, 130, 91, 138, 145, 214, 99, 148, 163, 228, 171, 242, 254, 357, 51, 87, 97, 144, 109, 154, 167, 239, 118, 169, 186, 253, 195, 269, 282, 380, 133, 191, 213, 275, 216, 283, 299, 401, 233, 307, 317, 417, 337, 435, 460, 577, 15, 25, 33, 69, 39, 76, 81, 134, 48, 86, 92, 143,

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100, 153, 157, 238, 56, 93, 102, 155, 112, 164, 175, 249, 122, 182, 192, 263, 210, 277, 297, 394, 64, 106, 119, 174, 124, 183, 197, 276, 142, 209, 217, 285, 232, 306, 322, 416, 156, 225, 240, 311, 252, 329, 342, 433, 270, 348, 366, 453, 386, 473, 511, 585, 71, 121, 137, 201, 152, 215, 231, 309, 161, 234, 244, 323, 255, 341, 356, 449, 177, 250, 264, 346, 284, 368, 382, 480, 293, 390, 403, 496, 425, 520, 531, 648, 194, 279, 287, 375, 312, 392, 406, 505, 336, 410, 434, 523, 459, 535, 567, 670, 355, 436, 461, 552, 471, 571, 590, 695, 508, 595, 611, 690, 627, 714, 743, 816, 18, 37, 41, 90, 50, 94, 104, 162, 53, 105, 115, 179, 126, 196, 202, 298, 63, 116, 127, 207, 139, 212, 223, 300, 147, 222, 237, 321, 251, 335, 343, 432, 66, 136, 149, 211, 160, 226, 241, 334, 173, 248, 258, 344, 268, 364, 379, 468, 180, 266, 280, 363, 292, 387, 399, 494, 314, 411, 418, 519, 443, 528, 555, 664, 79, 165, 166, 246, 181, 261, 273, 358, 188, 281, 286, 389, 302, 400, 412, 513, 235, 296, 313, 402, 324, 422, 444, 526, 350, 445, 464, 550, 481, 576, 587, 686, 259, 327, 345, 431, 362, 452, 466, 568, 381, 478, 490, 592, 514, 604, 619, 707, 404, 510, 521, 612, 527, 628, 608, 721, 557, 660, 672, 750, 678, 778, 794, 845, 85, 178, 185, 291, 227, 305, 316, 407, 247, 320, 328, 428, 349, 446, 462, 570, 265, 347, 361, 451, 367, 467, 483, 586, 391, 487, 501, 596, 525, 616, 639, 725, 294, 365, 369, 482, 395, 503, 518, 609, 427, 522, 533, 638, 565, 624, 666, 751, 448, 546, 572, 662, 588, 676, 688, 770, 605, 693, 692, 790, 722, 801, 814, 879, 325, 388, 423, 524, 447, 534, 554, 649, 465, 574, 569, 673, 591, 671, 691, 782, 484, 589, 610, 687, 620, 694, 723, 806, 647, 729, 740, 818, 760, 834, 844, 905, 512, 615, 635, 724, 665, 726, 756, 824, 677, 754, 772, 848, 786, 837, 870, 924, 680, 780, 798, 856, 809, 875, 865, 930, 828, 885, 893, 946, 909, 954, 963, 984, 27, 43, 52, 98, 60, 117, 128, 199, 65, 132, 140, 204, 151, 220, 224, 330, 67, 150, 158, 219, 170, 260, 271, 354, 184, 278, 290, 370, 304, 393, 408, 532, 70, 168, 176, 267, 190, 288, 301, 383, 200, 308, 318, 419, 332, 426, 439, 536, 206, 326, 340, 437, 359, 455, 476, 558, 371, 469, 491, 584, 493, 599, 618, 745, 107, 189, 198, 303, 205, 319, 331, 421, 229, 339, 351, 454, 377, 475, 486, 575, 245, 353, 372, 470, 396, 492, 497, 594, 420, 498, 506, 617, 545, 632, 656, 753, 262, 384, 409, 500, 415, 515, 529, 625, 440, 544, 559, 645, 581, 667, 675, 773, 457, 566, 583, 674, 606, 685, 709, 787, 634, 712, 730, 807, 741, 822, 842, 903, 110, 203, 221, 338, 243, 352, 378, 477, 257, 373, 397, 499, 424, 507, 517, 621, 274, 405, 414, 516, 438, 541, 553, 640, 456, 560, 578, 669, 597, 681, 700, 774, 295, 430, 442, 556, 474, 573, 580, 682, 488, 593, 603, 696, 630, 710, 718, 803, 509, 613, 633, 715, 650, 735, 742, 820, 659, 747, 764, 836, 789, 854, 871, 925, 315, 463, 479, 598, 495, 607, 626, 713, 539, 631, 644, 738, 653, 744, 758, 833, 547, 651, 658, 755, 683, 763, 783, 852, 704, 788, 797, 860, 813, 880, 888, 933, 561, 689, 698, 775, 719, 791, 800, 867, 731, 810, 825, 884, 838, 894, 907, 949, 766, 819, 846, 897, 858, 911, 916, 961, 868, 921, 929, 966, 940, 974, 983, 1003, 125, 230, 256, 374, 272, 398, 413, 530, 289, 429, 441, 543, 458, 564, 582, 701, 310, 450, 472, 579, 489, 600, 602, 706, 504, 614, 636, 728, 646, 736, 749, 829, 360, 485, 502, 601, 538, 623, 637, 739, 542, 643, 655, 746, 663, 759, 769, 850, 548, 661, 679, 768, 703, 781, 795, 864, 716, 804, 812,

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873, 826, 889, 900, 944, 376, 537, 540, 641, 549, 652, 668, 762, 563, 684, 697, 785, 711, 792, 808, 876, 629, 702, 720, 796, 732, 817, 827, 886, 761, 831, 840, 898, 857, 910, 915, 960, 654, 734, 748, 821, 767, 847, 853, 902, 777, 841, 863, 914, 874, 922, 932, 969, 799, 869, 881, 928, 891, 935, 943, 976, 904, 947, 953, 981, 958, 989, 991, 1011, 385, 551, 562, 699, 622, 708, 717, 802, 642, 727, 737, 823, 757, 830, 849, 901, 657, 752, 765, 835, 776, 851, 862, 913, 793, 872, 859, 919, 887, 931, 939, 972, 705, 771, 779, 855, 805, 866, 878, 926, 815, 882, 892, 936, 899, 941, 950, 980, 839, 895, 906, 945, 917, 955, 959, 987, 923, 965, 968, 993, 975, 996, 998, 1008, 733, 784, 811, 883, 832, 890, 896, 942, 843, 908, 912, 952, 920, 956, 967, 990, 861, 918, 927, 964, 938, 970, 971, 997, 948, 977, 979, 999, 985, 1004, 1006, 1016, 877, 934, 937, 973, 951, 978, 982, 1001, 957, 986, 988, 1005, 994, 1007, 1012, 1018, 962, 992, 995, 1009, 1000, 1010, 1013, 1019, 1002, 1014, 1015, 1020, 1017, 1021, 1022, 1023]

[0088] Table Z6, having a sequence length of 1024:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	128	15	256	18	384	85	512	27	640	110	768	125	896	385
1	1	129	25	257	37	385	178	513	43	641	203	769	230	897	551
2	2	130	33	258	41	386	185	514	52	642	221	770	256	898	562
3	7	131	69	259	90	387	291	515	98	643	338	771	374	899	699
4	3	132	39	260	50	388	227	516	60	644	243	772	272	900	622
5	8	133	76	261	94	389	305	517	117	645	352	773	398	901	708
6	11	134	81	262	104	390	316	518	128	646	378	774	413	902	717
7	24	135	134	263	162	391	407	519	199	647	477	775	530	903	802
8	4	136	48	264	53	392	247	520	65	648	257	776	289	904	642
9	10	137	86	265	105	393	320	521	132	649	373	777	429	905	727
10	13	138	92	266	115	394	328	522	140	650	397	778	441	906	737
11	28	139	143	267	179	395	428	523	204	651	499	779	543	907	823
12	16	140	100	268	126	396	349	524	151	652	424	780	458	908	757
13	31	141	153	269	196	397	446	525	220	653	507	781	564	909	830
14	35	142	157	270	202	398	462	526	224	654	517	782	582	910	849
15	77	143	238	271	298	399	570	527	330	655	621	783	701	911	901
16	5	144	56	272	63	400	265	528	67	656	274	784	310	912	657
17	12	145	93	273	116	401	347	529	150	657	405	785	450	913	752

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18	14	146	102	274	127	402	361	530	158	658	414	786	472	914	765
19	32	147	155	275	207	403	451	531	219	659	516	787	579	915	835
20	21	148	112	276	139	404	367	532	170	660	438	788	489	916	776
21	38	149	164	277	212	405	467	533	260	661	541	789	600	917	851
22	47	150	175	278	223	406	483	534	271	662	553	790	602	918	862
23	80	151	249	279	300	407	586	535	354	663	640	791	706	919	913
24	20	152	122	280	147	408	391	536	184	664	456	792	504	920	793
25	46	153	182	281	222	409	487	537	278	665	560	793	614	921	872
26	42	154	192	282	237	410	501	538	290	666	578	794	636	922	859
27	88	155	263	283	321	411	596	539	370	667	669	795	728	923	919
28	57	156	210	284	251	412	525	540	304	668	597	796	646	924	887
29	95	157	277	285	335	413	616	541	393	669	681	797	736	925	931
30	101	158	297	286	343	414	639	542	408	670	700	798	749	926	939
31	159	159	394	287	432	415	725	543	532	671	774	799	829	927	972
32	6	160	64	288	66	416	294	544	70	672	295	800	360	928	705
33	17	161	106	289	136	417	365	545	168	673	430	801	485	929	771
34	23	162	119	290	149	418	369	546	176	674	442	802	502	930	779
35	40	163	174	291	211	419	482	547	267	675	556	803	601	931	855
36	19	164	124	292	160	420	395	548	190	676	474	804	538	932	805
37	45	165	183	293	226	421	503	549	288	677	573	805	623	933	866
38	49	166	197	294	241	422	518	550	301	678	580	806	637	934	878
39	89	167	276	295	334	423	609	551	383	679	682	807	739	935	926
40	29	168	142	296	173	424	427	552	200	680	488	808	542	936	815
41	55	169	209	297	248	425	522	553	308	681	593	809	643	937	882
42	59	170	217	298	258	426	533	554	318	682	603	810	655	938	892
43	96	171	285	299	344	427	638	555	419	683	696	811	746	939	936
44	72	172	232	300	268	428	565	556	332	684	630	812	663	940	899
45	108	173	306	301	364	429	624	557	426	685	710	813	759	941	941
46	113	174	322	302	379	430	666	558	439	686	718	814	769	942	950
47	172	175	416	303	468	431	751	559	536	687	803	815	850	943	980
48	34	176	156	304	180	432	448	560	206	688	509	816	548	944	839
49	61	177	225	305	266	433	546	561	326	689	613	817	661	945	895
50	74	178	240	306	280	434	572	562	340	690	633	818	679	946	906
51	111	179	311	307	363	435	662	563	437	691	715	819	768	947	945
52	78	180	252	308	292	436	588	564	359	692	650	820	703	948	917
53	120	181	329	309	387	437	676	565	455	693	735	821	781	949	955
54	129	182	342	310	399	438	688	566	476	694	742	822	795	950	959

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55	187	183	433	311	494	439	770	562	558	695	820	823	864	951	987
56	84	184	270	312	314	440	605	568	371	696	659	824	716	952	923
57	131	185	348	313	411	441	693	569	469	697	747	825	804	953	965
58	141	186	366	314	418	442	692	570	491	698	764	826	812	954	968
59	208	187	453	315	519	443	790	571	584	699	836	827	873	955	993
60	146	188	386	316	443	444	722	572	493	700	789	828	826	956	975
61	218	189	473	317	528	445	801	573	599	701	854	829	889	957	996
62	236	190	511	318	555	446	814	574	618	702	871	830	900	958	998
63	333	191	585	319	664	447	879	575	745	703	925	831	944	959	1008
64	9	192	71	320	79	448	325	576	107	704	315	832	376	960	733
65	22	193	121	321	165	449	388	577	189	705	463	833	537	961	784
66	26	194	137	322	166	450	423	578	198	706	479	834	540	962	811
67	54	195	201	323	246	451	524	579	303	707	598	835	641	963	883
68	30	196	152	324	181	452	447	580	205	708	495	836	549	964	832
69	58	197	215	325	261	453	534	581	319	709	607	837	652	965	890
70	68	198	231	326	273	454	554	582	331	710	626	838	668	966	896
71	103	199	309	327	358	455	649	583	421	711	713	839	762	967	942
72	36	200	161	328	188	456	465	584	229	712	539	840	563	968	843
73	75	201	234	329	281	457	574	585	339	713	631	841	684	969	908
74	62	202	244	330	286	458	569	586	351	714	644	842	697	970	912
75	114	203	323	331	389	459	673	587	454	715	738	843	785	971	952
76	82	204	255	332	302	460	591	588	377	716	653	844	711	972	920
77	123	205	341	333	400	461	671	589	475	717	744	845	792	973	956
78	135	206	356	334	412	462	691	590	486	718	758	846	808	974	967
79	193	207	449	335	513	463	782	591	575	719	833	847	876	975	990
80	44	208	177	336	235	464	484	592	245	720	547	848	629	976	861
81	73	209	250	337	296	465	589	593	353	721	651	849	702	977	918
82	83	210	264	338	313	466	610	594	372	722	658	850	720	978	927
83	130	211	346	339	402	467	687	595	470	723	755	851	796	979	964
84	91	212	284	340	324	468	620	596	396	724	683	852	732	980	938
85	138	213	368	341	422	469	694	597	492	725	763	853	817	981	970
86	145	214	382	342	444	470	723	598	497	726	783	854	827	982	971
87	214	215	480	343	526	471	806	599	594	727	852	855	886	983	997
88	99	216	293	344	350	472	647	600	420	728	704	856	761	984	948
89	148	217	390	345	445	473	729	601	498	729	788	857	831	985	977
90	163	218	403	346	464	474	740	602	506	730	797	858	840	986	979
91	228	219	496	347	550	475	818	603	617	731	860	859	898	987	999

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92	171	220	425	348	481	476	760	604	545	732	813	860	857	988	985
93	242	221	520	349	576	477	834	605	632	733	880	861	910	989	1004
94	254	222	531	350	587	478	844	606	656	734	888	862	915	990	1006
95	357	223	648	351	686	479	905	607	753	735	933	863	960	991	1016
96	51	224	194	352	259	480	512	608	262	736	561	864	654	992	877
97	87	225	279	353	327	481	615	609	384	737	689	865	734	993	934
98	97	226	287	354	345	482	635	610	409	738	698	866	748	994	937
99	144	227	375	355	431	483	724	611	500	739	775	867	821	995	973
100	109	228	312	356	362	484	665	612	415	740	719	868	767	996	951
101	154	229	392	357	452	485	726	613	515	741	791	869	847	997	978
102	167	230	406	358	466	486	756	614	529	742	800	870	853	998	982
103	239	231	505	359	568	487	824	615	625	743	867	871	902	999	1001
104	118	232	336	360	381	488	677	616	440	744	731	872	777	1000	957
105	169	233	410	361	478	489	754	617	544	745	810	873	841	1001	986
106	186	234	434	362	490	490	772	618	559	746	825	874	863	1002	988
107	253	235	523	363	592	491	848	619	645	747	884	875	914	1003	1005
108	195	236	459	364	514	492	786	620	581	748	838	876	874	1004	994
109	269	237	535	365	604	493	837	621	667	749	894	877	922	1005	1007
110	282	238	567	366	619	494	870	622	675	750	907	878	932	1006	1012
111	380	239	670	367	707	495	924	623	773	751	949	879	969	1007	1018
112	133	240	355	368	404	496	680	624	457	752	766	880	799	1008	962
113	191	241	436	369	510	497	780	625	566	753	819	881	869	1009	992
114	213	242	461	370	521	498	798	626	583	754	846	882	881	1010	995
115	275	243	552	371	612	499	856	627	674	755	897	883	928	1011	1009
116	216	244	471	372	527	500	809	628	606	756	858	884	891	1012	1000
117	283	245	571	373	628	501	875	629	685	757	911	885	935	1013	1010
118	299	246	590	374	608	502	865	630	709	758	916	886	943	1014	1013
119	401	247	695	375	721	503	930	631	787	759	961	887	976	1015	1019
120	233	248	508	376	557	504	828	632	634	760	868	888	904	1016	1002
121	307	249	595	377	660	505	885	633	712	761	921	889	947	1017	1014
122	317	250	611	378	672	506	893	634	730	762	929	890	953	1018	1015
123	417	251	690	379	750	507	946	635	807	763	966	891	981	1019	1020
124	337	252	627	380	678	508	909	636	741	764	940	892	958	1020	1017
125	435	253	714	381	778	509	954	637	822	765	974	893	989	1021	1021
126	460	254	743	382	794	510	963	638	842	766	983	894	991	1022	1022
127	577	255	816	383	845	511	984	639	903	767	1003	895	1011	1023	1023

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[0089] Sequence Z7, having a sequence length of 512:

[0, 1, 2, 7, 3, 8, 11, 24, 4, 10, 13, 27, 16, 30, 34, 70, 5, 12, 14, 31, 21, 37, 45, 73, 20, 44, 41, 81, 54, 88, 93, 141, 6, 17, 23, 39, 19, 43, 47, 82, 28, 52, 56, 89, 65, 99, 103, 152, 33, 57, 67, 101, 71, 109, 116, 165, 77, 118, 126, 177, 131, 187, 199, 269, 9, 22, 26, 51, 29, 55, 62, 95, 35, 68, 58, 104, 75, 112, 121, 169, 42, 66, 76, 117, 84, 124, 130, 183, 91, 133, 145, 193, 151, 205, 215, 286, 49, 80, 90, 129, 100, 137, 149, 202, 107, 150, 164, 214, 171, 225, 234, 299, 119, 167, 182, 228, 185, 235, 247, 313, 196, 252, 259, 323, 273, 334, 347, 406, 15, 25, 32, 63, 38, 69, 74, 120, 46, 79, 85, 128, 92, 136, 140, 201, 53, 86, 94, 138, 102, 146, 155, 210, 111, 161, 168, 220, 179, 230, 245, 309, 60, 98, 108, 154, 113, 162, 173, 229, 127, 178, 186, 237, 195, 251, 262, 322, 139, 190, 203, 254, 213, 268, 275, 332, 226, 281, 293, 345, 302, 356, 372, 407, 64, 110, 123, 174, 135, 184, 194, 253, 143, 197, 206, 263, 216, 274, 285, 342, 156, 211, 221, 279, 236, 295, 301, 358, 242, 306, 315, 366, 327, 378, 387, 435, 170, 231, 239, 297, 255, 308, 317, 369, 272, 319, 333, 381, 346, 390, 398, 442, 284, 335, 348, 393, 355, 402, 412, 458, 370, 415, 422, 453, 429, 460, 469, 488, 18, 36, 40, 83, 48, 87, 96, 144, 50, 97, 105, 158, 114, 172, 175, 246, 59, 106, 115, 176, 125, 181, 189, 248, 132, 188, 200, 261, 212, 271, 276, 331, 61, 122, 134, 180, 142, 191, 204, 270, 153, 209, 217, 277, 224, 291, 298, 354, 159, 223, 232, 290, 241, 303, 311, 365, 257, 320, 324, 377, 336, 386, 395, 439, 72, 147, 148, 207, 160, 219, 227, 287, 166, 233, 238, 305, 249, 312, 321, 374, 198, 244, 256, 314, 264, 325, 337, 384, 283, 338, 350, 392, 359, 405, 409, 450, 218, 266, 278, 330, 289, 344, 352, 399, 300, 357, 364, 414, 375, 417, 426, 459, 316, 371, 379, 423, 385, 430, 419, 461, 396, 437, 444, 470, 448, 477, 482, 495, 78, 157, 163, 240, 192, 250, 258, 318, 208, 260, 267, 329, 282, 339, 349, 401, 222, 280, 288, 343, 294, 353, 361, 408, 307, 363, 367, 416, 383, 425, 433, 465, 243, 292, 296, 360, 310, 368, 376, 420, 328, 380, 388, 432, 397, 428, 441, 471, 341, 391, 403, 438, 410, 446, 452, 475, 418, 456, 455, 481, 462, 484, 487, 501, 265, 304, 326, 382, 340, 389, 394, 436, 351, 404, 400, 445, 413, 443, 454, 479, 362, 411, 421, 451, 427, 457, 463, 485, 434, 467, 468, 489, 474, 492, 494, 504, 373, 424, 431, 464, 440, 466, 473, 490, 447, 472, 476, 496, 480, 493, 499, 506, 449, 478, 483, 497, 486, 500, 498, 507, 491, 502, 503, 508, 505, 509, 510, 511]

[0090] Table Z7, having a sequence length of 512:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	64	9	128	15	192	64	256	18	320	72	384	78	448	265

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1	1	65	22	129	25	193	110	257	36	321	147	385	157	449	304
2	2	66	26	130	32	194	123	258	40	322	148	386	163	450	326
3	7	67	51	131	63	195	174	259	83	323	207	387	240	451	382
4	3	68	29	132	38	196	135	260	48	324	160	388	192	452	340
5	8	69	55	133	69	197	184	261	87	325	219	389	250	453	389
6	11	70	62	134	74	198	194	262	96	326	227	390	258	454	394
7	24	71	95	135	120	199	253	263	144	327	287	391	318	455	436
8	4	72	35	136	46	200	143	264	50	328	166	392	208	456	351
9	10	73	68	137	79	201	197	265	97	329	233	393	260	457	404
10	13	74	58	138	85	202	206	266	105	330	238	394	267	458	400
11	27	75	104	139	128	203	263	267	158	331	305	395	329	459	445
12	16	76	75	140	92	204	216	268	114	332	249	396	282	460	413
13	30	77	112	141	136	205	274	269	172	333	312	397	339	461	443
14	34	78	121	142	140	206	285	270	175	334	321	398	349	462	454
15	70	79	169	143	201	207	342	271	246	335	374	399	401	463	479
16	5	80	42	144	53	208	156	272	59	336	198	400	222	464	362
17	12	81	66	145	86	209	211	273	106	337	244	401	280	465	411
18	14	82	76	146	94	210	221	274	115	338	256	402	288	466	421
19	31	83	117	147	138	211	279	275	176	339	314	403	343	467	451
20	21	84	84	148	102	212	236	276	125	340	264	404	294	468	427
21	37	85	124	149	146	213	295	277	181	341	325	405	353	469	457
22	45	86	130	150	155	214	301	278	189	342	337	406	361	470	463
23	73	87	183	151	210	215	358	279	248	343	384	407	408	471	485
24	20	88	91	152	111	216	242	280	132	344	283	408	307	472	434
25	44	89	133	153	161	217	306	281	188	345	338	409	363	473	467
26	41	90	145	154	168	218	315	282	200	346	350	410	367	474	468
27	81	91	193	155	220	219	366	283	261	347	392	411	416	475	489
28	54	92	151	156	179	220	327	284	212	348	359	412	383	476	474
29	88	93	205	157	230	221	378	285	271	349	405	413	425	477	492
30	93	94	215	158	245	222	387	286	276	350	409	414	433	478	494
31	141	95	286	159	309	223	435	287	331	351	450	415	465	479	504
32	6	96	49	160	60	224	170	288	61	352	218	416	243	480	373
33	17	97	80	161	98	225	231	289	122	353	266	417	292	481	424
34	23	98	90	162	108	226	239	290	134	354	278	418	296	482	431
35	39	99	129	163	154	227	297	291	180	355	330	419	360	483	464
36	19	100	100	164	113	228	255	292	142	356	289	420	310	484	440
37	43	101	137	165	162	229	308	293	191	357	344	421	368	485	466

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38	47	102	149	166	173	230	317	294	204	358	352	422	376	486	473
39	82	103	202	167	229	231	369	295	270	359	399	423	420	487	490
40	28	104	107	168	127	232	272	296	153	360	300	424	328	488	447
41	52	105	150	169	178	233	319	297	209	361	357	425	380	489	472
42	56	106	164	170	186	234	333	298	217	362	364	426	388	490	476
43	89	107	214	171	237	235	381	299	277	363	414	427	432	491	496
44	65	108	171	172	195	236	346	300	224	364	375	428	397	492	480
45	99	109	225	173	251	237	390	301	291	365	417	429	428	493	493
46	103	110	234	174	262	238	398	302	298	366	426	430	441	494	499
47	152	111	299	175	322	239	442	303	354	367	459	431	471	495	506
48	33	112	119	176	139	240	284	304	159	368	316	432	341	496	449
49	57	113	167	177	190	241	335	305	223	369	371	433	391	497	478
50	67	114	182	178	203	242	348	306	232	370	379	434	403	498	483
51	101	115	228	179	254	243	393	307	290	371	423	435	438	499	497
52	71	116	185	180	213	244	355	308	241	372	385	436	410	500	486
53	109	117	235	181	268	245	402	309	303	373	430	437	446	501	500
54	116	118	247	182	275	246	412	310	311	374	419	438	452	502	498
55	165	119	313	183	332	247	458	311	365	375	461	439	475	503	507
56	77	120	196	184	226	248	370	312	257	376	396	440	418	504	491
57	118	121	252	185	281	249	415	313	320	377	437	441	456	505	502
58	126	122	259	186	293	250	422	314	324	378	444	442	455	506	503
59	177	123	323	187	345	251	453	315	377	379	470	443	481	507	508
60	131	124	273	188	302	252	429	316	336	380	448	444	462	508	505
61	187	125	334	189	356	253	460	317	386	381	477	445	484	509	509
62	199	126	347	190	372	254	469	318	395	382	482	446	487	510	510
63	269	127	406	191	407	255	488	319	439	383	495	447	501	511	511

[0091] Sequence Z8, having a sequence length of 256:

[0, 1, 2, 7, 3, 8, 11, 23, 4, 10, 13, 26, 16, 29, 33, 63, 5, 12, 14, 30, 20, 35, 42, 65, 19, 41, 38, 72, 49, 77, 82, 120, 6, 17, 22, 37, 18, 40, 44, 73, 27, 47, 51, 78, 58, 86, 90, 127, 32, 52, 60, 88, 64, 94, 99, 134, 69, 101, 107, 142, 112, 150, 157, 194, 9, 21, 25, 46, 28, 50, 55, 84, 34, 61, 53, 91, 67, 97, 104, 137, 39, 59, 68, 100, 74, 106, 111, 146, 80, 113, 122, 152, 126, 161, 167, 203, 45, 71, 79, 110, 87, 116, 124, 159, 92, 125, 133, 166, 139, 171, 177, 207, 102, 135, 145, 173, 148, 178, 184, 213, 155, 186, 190, 218, 196, 222, 227, 243, 15, 24, 31, 56, 36, 62, 66, 103, 43, 70, 75, 109, 81, 115, 119, 158, 48, 76, 83, 117, 89, 123, 129, 163, 96, 131, 136, 169, 144, 175, 183, 212, 54, 85, 93, 128, 98, 132, 140, 174, 108, 143, 149, 180, 154, 185, 191, 217, 118, 151, 160, 188, 165, 193, 198, 220, 172,

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200, 204, 225, 209, 230, 235, 244, 57, 95, 105, 141, 114, 147, 153, 187, 121, 156, 162, 192, 168, 197, 202, 224, 130, 164, 170, 199, 179, 205, 208, 231, 182, 210, 214, 232, 219, 236, 238, 249, 138, 176, 181, 206, 189, 211, 215, 233, 195, 216, 221, 237, 226, 239, 241, 250, 201, 223, 228, 240, 229, 242, 245, 252, 234, 246, 247, 251, 248, 253, 254, 255]

[0092] Table Z8, having a sequence length of 256:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	32	6	64	9	96	45	128	15	160	54	192	57	224	138
1	1	33	17	65	21	97	71	129	24	161	85	193	95	225	176
2	2	34	22	66	25	98	79	130	31	162	93	194	105	226	181
3	7	35	37	67	46	99	110	131	56	163	128	195	141	227	206
4	3	36	18	68	28	100	87	132	36	164	98	196	114	228	189
5	8	37	40	69	50	101	116	133	62	165	132	197	147	229	211
6	11	38	44	70	55	102	124	134	66	166	140	198	153	230	215
7	23	39	73	71	84	103	159	135	103	167	174	199	187	231	233
8	4	40	27	72	34	104	92	136	43	168	108	200	121	232	195
9	10	41	47	73	61	105	125	137	70	169	143	201	156	233	216
10	13	42	51	74	53	106	133	138	75	170	149	202	162	234	221
11	26	43	78	75	91	107	166	139	109	171	180	203	192	235	237
12	16	44	58	76	67	108	139	140	81	172	154	204	168	236	226
13	29	45	86	77	97	109	171	141	115	173	185	205	197	237	239
14	33	46	90	78	104	110	177	142	119	174	191	206	202	238	241
15	63	47	127	79	137	111	207	143	158	175	217	207	224	239	250
16	5	48	32	80	39	112	102	144	48	176	118	208	130	240	201
17	12	49	52	81	59	113	135	145	76	177	151	209	164	241	223
18	14	50	60	82	68	114	145	146	83	178	160	210	170	242	228
19	30	51	88	83	100	115	173	147	117	179	188	211	199	243	240
20	20	52	64	84	74	116	148	148	89	180	165	212	179	244	229
21	35	53	94	85	106	117	178	149	123	181	193	213	205	245	242
22	42	54	99	86	111	118	184	150	129	182	198	214	208	246	245
23	65	55	134	87	146	119	213	151	163	183	220	215	231	247	252
24	19	56	69	88	80	120	155	152	96	184	172	216	182	248	234
25	41	57	101	89	113	121	186	153	131	185	200	217	210	249	246

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26	38	58	107	90	122	122	190	154	136	186	204	218	214	250	247
27	72	59	142	91	152	129	218	155	169	187	225	219	232	251	251
28	49	60	112	92	126	124	196	156	144	188	209	220	219	252	248
29	77	61	150	93	161	125	222	157	175	189	230	221	236	253	253
30	82	62	157	94	167	126	227	158	183	190	235	222	238	254	254
31	120	63	194	95	203	127	243	159	212	191	244	223	249	255	255

[0093] Sequence Z9, having a sequence length of 128:

[0, 1, 2, 7, 3, 8, 11, 22, 4, 10, 13, 24, 15, 27, 30, 53, 5, 12, 14, 28, 19, 32, 38, 55, 18, 37, 34, 60, 43, 63, 67, 89, 6, 16, 21, 33, 17, 36, 39, 61, 25, 42, 45, 64, 49, 69, 72, 94, 29, 46, 51, 71, 54, 75, 77, 96, 58, 79, 83, 100, 86, 104, 107, 119, 9, 20, 23, 41, 26, 44, 48, 68, 31, 52, 47, 73, 56, 76, 81, 98, 35, 50, 57, 78, 62, 82, 85, 102, 66, 87, 90, 105, 93, 109, 111, 121, 40, 59, 65, 84, 70, 88, 91, 108, 74, 92, 95, 110, 99, 112, 114, 122, 80, 97, 101, 113, 103, 115, 116, 123, 106, 117, 118, 124, 120, 125, 126, 127]

[0094] Table Z9, having a sequence length of 128:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	16	5	32	6	48	29	64	9	80	35	96	40	112	80
1	1	17	12	33	16	49	46	65	20	81	50	97	59	113	97
2	2	18	14	34	21	50	51	66	23	82	57	98	65	114	101
3	7	19	28	35	33	51	71	67	41	83	78	99	84	115	113
4	3	20	19	36	17	52	54	68	26	84	62	100	70	116	103
5	8	21	32	37	36	53	75	69	44	85	82	101	88	117	115
6	11	22	38	38	39	54	77	70	48	86	85	102	91	118	116
7	22	23	55	39	61	55	96	71	68	87	102	103	108	119	123
8	4	24	18	40	25	56	58	72	31	88	66	104	74	120	106
9	10	25	37	41	42	57	79	73	52	89	87	105	92	121	117
10	13	26	34	42	45	58	83	74	47	90	90	106	95	122	118
11	24	27	60	43	64	59	100	75	73	91	105	107	110	123	124
12	15	28	43	44	49	60	86	76	56	92	93	108	99	124	120
13	27	29	63	45	69	61	104	77	76	93	109	109	112	125	125
14	30	30	67	46	72	62	107	78	81	94	111	110	114	126	126

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15	53	31	89	45	94	63	119	79	98	95	121	111	122	127	127

[0095] Sequence Z10, having a sequence length of 64:

[0, 1, 2, 7, 3, 8, 10, 20, 4, 9, 12, 21, 14, 23, 26, 40, 5, 11, 13, 24, 18, 27, 32, 42, 17, 31, 29, 44, 35, 46, 48, 57, 6, 15, 19, 28, 16, 30, 33, 45, 22, 34, 36, 47, 38, 49, 51, 58, 25, 37, 39, 50, 41, 52, 53, 59, 43, 54, 55, 60, 56, 61, 62, 63]

[0096] Table Z10, having a sequence length of 64:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	8	4	16	5	24	17	32	6	40	22	48	25	56	43
1	1	9	9	17	11	25	31	33	15	41	34	49	37	57	54
2	2	10	12	18	13	26	29	34	19	42	36	50	39	58	55
3	7	11	21	19	24	27	44	35	28	43	47	51	50	59	60
4	3	12	14	20	18	28	35	36	16	44	38	52	41	60	56
5	8	13	23	21	27	29	46	37	30	45	49	53	52	61	61
6	10	14	26	22	32	30	48	38	33	46	51	54	53	62	62
7	20	15	40	23	42	31	57	39	45	47	58	55	59	63	63

[0097] Third group of sequences (a criterion that comprehensively considers performance obtained by List (list) whose sizes are respectively 1, 2, 4, 8, and 16, and preferentially considers performance of Lists 2, 4, and 8).

[0098] Sequence Q11, having a sequence length of 1024:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 65, 20, 256, 34, 24, 36, 7, 129, 66, 512, 11, 40, 68, 130, 19, 13, 48, 14, 72, 257, 21, 132, 35, 258, 26, 513, 80, 37, 25, 22, 136, 260, 264, 38, 514, 96, 67, 41, 144, 28, 69, 42, 516, 49, 74, 272, 160, 520, 288, 528, 192, 544, 70, 44, 131, 81, 50, 73, 15, 320, 133, 52, 23, 134, 384, 76, 137, 82, 56, 27, 97, 39, 259, 84, 138, 145, 261, 29, 43, 98, 515, 88, 140, 30, 146, 71, 262, 265, 161, 576, 45, 100, 640, 51, 148, 46, 75, 266, 273, 517, 104, 162, 53, 193, 152, 77, 164, 768, 268, 274, 518, 54, 83, 57, 521, 112, 135, 78, 289, 194, 85, 276, 522, 58, 168, 139, 99, 86, 60, 280, 89, 290, 529, 524, 196, 141, 101, 147, 176, 142, 530, 321, 31, 200, 90, 545, 292, 322, 532, 263, 149, 102, 105, 304, 296, 163, 92, 47, 267, 385, 546, 324, 208, 386, 150, 153, 165, 106, 55, 328, 536, 577, 548, 113, 154, 79, 269, 108, 578, 224, 166, 519, 552, 195, 270, 641, 523,

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275, 580, 291, 59, 169, 560, 114, 277, 156, 87, 197, 116, 170, 61, 531, 525, 642, 281, 278, 526, 177, 293, 388, 91, 584, 769, 198, 172, 120, 201, 336, 62, 282, 143, 103, 178, 294, 93, 644, 202, 592, 323, 392, 297, 770, 107, 180, 151, 209, 284, 648, 94, 204, 298, 400, 608, 352, 325, 533, 155, 210, 305, 547, 300, 109, 184, 534, 537, 115, 167, 225, 326, 306, 772, 157, 656, 329, 110, 117, 212, 171, 776, 330, 226, 549, 538, 387, 308, 216, 416, 271, 279, 158, 337, 550, 672, 118, 332, 579, 540, 389, 173, 121, 553, 199, 784, 179, 228, 338, 312, 704, 390, 174, 554, 581, 393, 283, 122, 448, 353, 561, 203, 63, 340, 394, 527, 582, 556, 181, 295, 285, 232, 124, 205, 182, 643, 562, 286, 585, 299, 354, 211, 401, 185, 396, 344, 586, 645, 593, 535, 240, 206, 95, 327, 564, 800, 402, 356, 307, 301, 417, 213, 568, 832, 588, 186, 646, 404, 227, 896, 594, 418, 302, 649, 771, 360, 539, 111, 331, 214, 309, 188, 449, 217, 408, 609, 596, 551, 650, 229, 159, 420, 310, 541, 773, 610, 657, 333, 119, 600, 339, 218, 368, 652, 230, 391, 313, 450, 542, 334, 233, 555, 774, 175, 123, 658, 612, 341, 777, 220, 314, 424, 395, 673, 583, 355, 287, 183, 234, 125, 557, 660, 616, 342, 316, 241, 778, 563, 345, 452, 397, 403, 207, 674, 558, 785, 432, 357, 187, 236, 664, 624, 587, 780, 705, 126, 242, 565, 398, 346, 456, 358, 405, 303, 569, 244, 595, 189, 566, 676, 361, 706, 589, 215, 786, 647, 348, 419, 406, 464, 680, 801, 362, 590, 409, 570, 788, 597, 572, 219, 311, 708, 598, 601, 651, 421, 792, 802, 611, 602, 410, 231, 688, 653, 248, 369, 190, 364, 654, 659, 335, 480, 315, 221, 370, 613, 422, 425, 451, 614, 543, 235, 412, 343, 372, 775, 317, 222, 426, 453, 237, 559, 833, 804, 712, 834, 661, 808, 779, 617, 604, 433, 720, 816, 836, 347, 897, 243, 662, 454, 318, 675, 618, 898, 781, 376, 428, 665, 736, 567, 840, 625, 238, 359, 457, 399, 787, 591, 678, 434, 677, 349, 245, 458, 666, 620, 363, 127, 191, 782, 407, 436, 626, 571, 465, 681, 246, 707, 350, 599, 668, 790, 460, 249, 682, 573, 411, 803, 789, 709, 365, 440, 628, 689, 374, 423, 466, 793, 250, 371, 481, 574, 413, 603, 366, 468, 655, 900, 805, 615, 684, 710, 429, 794, 252, 373, 605, 848, 690, 713, 632, 482, 806, 427, 904, 414, 223, 663, 692, 835, 619, 472, 455, 796, 809, 714, 721, 837, 716, 864, 810, 606, 912, 722, 696, 377, 435, 817, 319, 621, 812, 484, 430, 838, 667, 488, 239, 378, 459, 622, 627, 437, 380, 818, 461, 496, 669, 679, 724, 841, 629, 351, 467, 438, 737, 251, 462, 442, 441, 469, 247, 683, 842, 738, 899, 670, 783, 849, 820, 728, 928, 791, 367, 901, 630, 685, 844, 633, 711, 253, 691, 824, 902, 686, 740, 850, 375, 444, 470, 483, 415, 485, 905, 795, 473, 634, 744, 852, 960, 865, 693, 797, 906, 715, 807, 474, 636, 694, 254, 717, 575, 913, 798, 811, 379, 697, 431, 607, 489, 866, 723, 486, 908, 718, 813, 476, 856, 839, 725, 698, 914, 752, 868, 819, 814, 439, 929, 490, 623, 671, 739, 916, 463, 843, 381, 497, 930, 821, 726, 961, 872, 492, 631, 729, 700, 443, 741, 845, 920, 382, 822, 851, 730, 498, 880, 742, 445, 471, 635, 932, 687, 903, 825, 500, 846, 745, 826, 732, 446, 962, 936, 475, 853, 867, 637, 907, 487, 695, 746, 828, 753, 854, 857, 504, 799, 255, 964, 909, 719, 477, 915, 638, 748, 944, 869, 491, 699, 754, 858, 478, 968, 383, 910, 815, 976, 870, 917, 727, 493, 873, 701, 931, 756, 860, 499, 731, 823, 922, 874, 918, 502, 933, 743, 760, 881, 494, 702, 921, 501, 876, 847, 992, 447, 733, 827, 934, 882, 937, 963, 747, 505, 855,

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924, 734, 829, 965, 938, 884, 506, 749, 945, 966, 755, 859, 940, 830, 911, 871, 639, 888, 479, 946, 750, 969, 508, 861, 757, 970, 919, 875, 862, 758, 948, 977, 923, 972, 761, 877, 952, 495, 703, 935, 978, 883, 762, 503, 925, 878, 735, 993, 885, 939, 994, 980, 926, 764, 941, 967, 886, 831, 947, 507, 889, 984, 751, 942, 996, 971, 890, 509, 949, 973, 1000, 892, 950, 863, 759, 1008, 510, 979, 953, 763, 974, 954, 879, 981, 982, 927, 995, 765, 956, 887, 985, 997, 986, 943, 891, 998, 766, 511, 988, 1001, 951, 1002, 893, 975, 894, 1009, 955, 1004, 1010, 957, 983, 958, 987, 1012, 999, 1016, 767, 989, 1003, 990, 1005, 959, 1011, 1013, 895, 1006, 1014, 1017, 1018, 991, 1020, 1007, 1015, 1019, 1021, 1022, 1023]

[0099] Table Q11, having a sequence length of 1024:

Reliability of sequence number of reliability	Polarized channel sequence number	Reliability of sequence number of reliability	Polarized channel sequence number	Reliability of sequence number of reliability	Polarized channel sequence number	Reliability of sequence number of reliability	Polarized channel sequence number	Reliability of sequence number of reliability	Polarized channel sequence number	Reliability of sequence number of reliability	Polarized channel sequence number	Reliability of sequence number of reliability	Polarized channel sequence number	Reliability of sequence number of reliability	Polarized channel sequence number
0	0	128	518	256	94	384	214	512	364	640	414	768	819	896	966
1	1	129	54	257	204	385	309	513	654	641	223	769	814	897	755
2	2	130	83	258	298	386	188	514	659	642	663	770	439	898	859
3	4	131	57	259	400	387	449	515	335	643	692	771	929	899	940
4	8	132	521	260	608	388	217	516	480	644	835	772	490	900	830
5	16	133	112	261	352	389	408	517	315	645	619	773	623	901	911
6	32	134	135	262	325	390	609	518	221	646	472	774	671	902	871
7	3	135	78	263	533	391	596	519	370	647	455	775	739	903	639
8	5	136	289	264	155	392	551	520	613	648	796	776	916	904	888
9	64	137	194	265	210	393	650	521	422	649	809	777	463	905	479
10	9	138	85	266	305	394	229	522	425	650	714	778	843	906	946
11	6	139	276	267	547	395	159	523	451	651	721	779	381	907	750
12	17	140	522	268	300	396	420	524	614	652	837	780	497	908	969
13	10	141	58	269	109	397	310	525	543	653	716	781	930	909	508
14	18	142	168	270	184	398	541	526	235	654	864	782	821	910	861
15	128	143	139	271	534	399	773	527	412	655	810	783	726	911	757
16	12	144	99	272	537	400	610	528	343	656	606	784	961	912	970
17	33	145	86	273	115	401	657	529	372	657	912	785	872	913	919
18	65	146	60	274	167	402	333	530	775	658	722	786	492	914	875
19	20	147	280	275	225	403	119	531	317	659	696	787	631	915	862
20	256	148	89	276	326	404	600	532	222	660	377	788	729	916	758
21	34	149	290	277	306	405	339	533	426	661	435	789	700	917	948

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22	24	150	529	278	772	406	218	532	453	662	817	290	443	918	977
23	36	151	524	279	157	407	368	535	237	663	319	291	741	919	923
24	7	152	196	280	656	408	652	536	559	664	621	292	845	920	972
25	129	153	141	281	329	409	230	537	833	665	812	799	920	921	761
26	66	154	101	282	110	410	391	538	804	666	484	794	382	922	877
27	512	155	147	283	117	411	313	539	712	667	430	795	822	923	952
28	11	156	176	284	212	412	450	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	542	541	661	669	667	797	730	925	703
30	68	158	530	286	776	414	334	542	808	670	488	798	498	926	935
31	130	159	321	287	330	415	233	543	779	671	239	799	880	927	978
32	19	160	31	288	226	416	555	544	617	672	378	800	742	928	883
33	13	161	200	289	549	417	774	545	604	673	459	801	445	929	762
34	48	162	90	290	538	418	175	546	433	674	622	802	471	930	503
35	14	163	545	291	387	419	123	547	720	675	627	803	635	931	925
36	72	164	292	292	308	420	658	548	816	676	437	804	932	932	878
37	257	165	322	293	216	421	612	549	836	677	380	805	687	933	735
38	21	166	532	294	416	422	341	550	347	678	818	806	903	934	993
39	132	167	263	295	271	423	777	551	897	679	461	807	825	935	885
40	35	168	149	296	279	424	220	552	243	680	496	808	500	936	939
41	258	169	102	297	158	425	314	553	662	681	669	809	846	937	994
42	26	170	105	298	337	426	424	554	454	682	679	810	745	938	980
43	513	171	304	299	550	427	395	555	318	683	724	811	826	939	926
44	80	172	296	300	672	428	673	556	675	684	841	812	732	940	764
45	37	173	163	301	118	429	583	557	618	685	629	813	446	941	941
46	25	174	92	302	332	430	355	558	898	686	351	814	962	942	967
47	22	175	47	303	579	431	287	559	781	687	467	815	936	943	886
48	136	176	267	304	540	432	183	560	376	688	438	816	475	944	831
49	260	177	385	305	389	433	234	561	428	689	737	817	853	945	947
50	264	178	546	306	173	434	125	562	665	690	251	818	867	946	507
51	38	179	324	307	121	435	557	563	736	691	462	819	637	947	889
52	514	180	208	308	553	436	660	564	567	692	442	820	907	948	984
53	96	181	386	309	199	437	616	565	840	693	441	821	487	949	751
54	67	182	150	310	784	438	342	566	625	694	469	822	695	950	942
55	41	183	153	311	179	439	316	567	238	695	247	823	746	951	996
56	144	184	165	312	228	440	241	568	359	696	683	824	828	952	971
57	28	185	106	313	338	441	778	569	457	697	842	825	753	953	890
58	69	186	55	314	312	442	563	570	399	698	738	826	854	954	509

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59	42	187	328	315	704	443	345	571	787	699	899	829	857	955	949
60	516	188	536	316	390	444	452	572	591	700	670	828	504	956	973
61	49	189	577	317	174	445	397	573	678	701	783	829	799	957	1000
62	74	190	548	318	554	446	403	574	434	702	849	830	255	958	892
63	272	191	113	319	581	447	207	575	677	703	820	831	964	959	950
64	160	192	154	320	393	448	674	576	349	204	728	832	909	960	863
65	520	193	79	321	283	449	558	577	245	205	928	833	719	961	759
66	288	194	269	322	122	450	785	578	458	206	791	834	477	962	1008
67	528	195	108	323	448	451	432	579	666	707	367	835	915	963	510
68	192	196	578	324	353	452	357	580	620	208	901	836	638	964	979
69	544	197	224	325	561	453	187	581	363	209	630	837	748	965	953
70	70	198	166	326	203	454	236	582	127	210	685	838	944	966	763
71	44	199	519	327	63	455	664	583	191	211	844	839	869	967	974
72	131	200	552	328	340	456	624	584	782	212	633	840	491	968	954
73	81	201	195	329	394	457	587	585	407	213	711	841	699	969	879
74	50	202	270	330	527	458	780	586	436	214	253	842	754	970	981
75	73	203	641	331	582	459	705	587	626	215	691	843	858	971	982
76	15	204	523	332	556	460	126	588	571	216	824	844	478	972	927
77	320	205	275	333	181	461	242	589	465	217	902	845	968	973	995
78	133	206	580	334	295	462	565	590	681	218	686	846	383	974	765
79	52	207	291	335	285	463	398	591	246	219	740	847	910	975	956
80	23	208	59	336	232	464	346	592	707	220	850	848	815	976	887
81	134	209	169	337	124	465	456	593	350	221	375	849	976	977	985
82	384	210	560	338	205	466	358	594	599	222	444	850	870	978	997
83	76	211	114	339	182	467	405	595	668	223	470	851	917	979	986
84	137	212	277	340	643	468	303	596	790	224	483	852	727	980	943
85	82	213	156	341	562	469	569	597	460	225	415	853	493	981	891
86	56	214	87	342	286	470	244	598	249	226	485	854	873	982	998
87	27	215	197	343	585	471	595	599	682	227	905	855	701	983	766
88	97	216	116	344	299	472	189	600	573	228	795	856	931	984	511
89	39	217	170	345	354	473	566	601	411	229	473	857	756	985	988
90	259	218	61	346	211	474	676	602	803	230	634	858	860	986	1001
91	84	219	531	347	401	475	361	603	789	231	744	859	499	987	951
92	138	220	525	348	185	476	706	604	709	232	852	860	731	988	1002
93	145	221	642	349	396	477	589	605	365	233	960	861	823	989	893
94	261	222	281	350	344	478	215	606	440	234	865	862	922	990	975
95	29	223	278	351	586	479	786	607	628	235	693	863	874	991	894

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96	43	224	526	352	645	480	647	606	689	736	797	864	918	992	1009
97	98	225	177	353	593	481	348	609	374	737	906	865	502	993	955
98	515	226	293	354	535	482	419	610	423	738	715	866	933	994	1004
99	88	227	388	355	240	483	406	611	466	739	807	867	743	995	1010
100	140	228	91	356	206	484	464	612	793	740	474	868	760	996	957
101	30	229	584	357	95	485	680	613	250	741	636	869	881	997	983
102	146	230	769	358	327	486	801	614	371	742	694	870	494	998	958
103	71	231	198	359	564	487	362	615	481	743	254	871	702	999	987
104	262	232	172	360	800	488	590	616	574	744	717	872	921	1000	1012
105	265	233	120	361	402	489	409	617	413	745	575	873	501	1001	999
106	161	234	201	362	356	490	570	618	603	746	913	874	876	1002	1016
107	576	235	336	363	307	491	788	619	366	747	798	875	847	1003	767
108	45	236	62	364	301	492	597	620	468	748	811	876	992	1004	989
109	100	237	282	365	417	493	572	621	655	749	379	877	447	1005	1003
110	640	238	143	366	213	494	219	622	900	750	697	878	733	1006	990
111	51	239	103	367	568	495	311	623	805	751	431	879	827	1007	1005
112	148	240	178	368	832	496	708	624	615	752	607	880	934	1008	959
113	46	241	294	369	588	497	598	625	684	753	489	881	882	1009	1011
114	75	242	93	370	186	498	601	626	710	754	866	882	937	1010	1013
115	266	243	644	371	646	499	651	627	429	755	723	883	963	1011	895
116	273	244	202	372	404	500	421	628	794	756	486	884	747	1012	1006
117	517	245	592	373	227	501	792	629	252	757	908	885	505	1013	1014
118	104	246	323	374	896	502	802	630	373	758	718	886	855	1014	1017
119	162	247	392	375	594	503	611	631	605	759	813	887	924	1015	1018
120	53	248	297	376	418	504	602	632	848	760	476	888	734	1016	991
121	193	249	770	377	302	505	410	633	690	761	856	889	829	1017	1020
122	152	250	107	378	649	506	231	634	713	762	839	890	965	1018	1007
123	77	251	180	379	771	507	688	635	632	763	725	891	938	1019	1015
124	164	252	151	380	360	508	653	636	482	764	698	892	884	1020	1019
125	768	253	209	381	539	509	248	637	806	765	914	893	506	1021	1021
126	268	254	284	382	111	510	369	638	427	766	752	894	749	1022	1022
127	274	255	648	383	331	511	190	639	904	767	868	895	945	1023	1023

[0100] Sequence Q12, having a sequence length of 512:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 65, 20, 256, 34, 24, 36, 7, 129, 66, 11, 40, 68, 130, 19, 13, 48, 14, 72, 257, 21, 132, 35, 258, 26, 80, 37, 25, 22, 136, 260, 264, 38, 96, 67, 41, 144, 28, 69, 42, 49, 74, 272, 160, 288, 192, 70, 44, 131, 81, 50, 73, 15, 320, 133, 52, 23, 134,

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384, 76, 137, 82, 56, 27, 97, 39, 259, 84, 138, 145, 261, 29, 43, 98, 88, 140, 30, 146, 71, 262, 265, 161, 45, 100, 51, 148, 46, 75, 266, 273, 104, 162, 53, 193, 152, 77, 164, 268, 274, 54, 83, 57, 112, 135, 78, 289, 194, 85, 276, 58, 168, 139, 99, 86, 60, 280, 89, 290, 196, 141, 101, 147, 176, 142, 321, 31, 200, 90, 292, 322, 263, 149, 102, 105, 304, 296, 163, 92, 47, 267, 385, 324, 208, 386, 150, 153, 165, 106, 55, 328, 113, 154, 79, 269, 108, 224, 166, 195, 270, 275, 291, 59, 169, 114, 277, 156, 87, 197, 116, 170, 61, 281, 278, 177, 293, 388, 91, 198, 172, 120, 201, 336, 62, 282, 143, 103, 178, 294, 93, 202, 323, 392, 297, 107, 180, 151, 209, 284, 94, 204, 298, 400, 352, 325, 155, 210, 305, 300, 109, 184, 115, 167, 225, 326, 306, 157, 329, 110, 117, 212, 171, 330, 226, 387, 308, 216, 416, 271, 279, 158, 337, 118, 332, 389, 173, 121, 199, 179, 228, 338, 312, 390, 174, 393, 283, 122, 448, 353, 203, 63, 340, 394, 181, 295, 285, 232, 124, 205, 182, 286, 299, 354, 211, 401, 185, 396, 344, 240, 206, 95, 327, 402, 356, 307, 301, 417, 213, 186, 404, 227, 418, 302, 360, 111, 331, 214, 309, 188, 449, 217, 408, 229, 159, 420, 310, 333, 119, 339, 218, 368, 230, 391, 313, 450, 334, 233, 175, 123, 341, 220, 314, 424, 395, 355, 287, 183, 234, 125, 342, 316, 241, 345, 452, 397, 403, 207, 432, 357, 187, 236, 126, 242, 398, 346, 456, 358, 405, 303, 244, 189, 361, 215, 348, 419, 406, 464, 362, 409, 219, 311, 421, 410, 231, 248, 369, 190, 364, 335, 480, 315, 221, 370, 422, 425, 451, 235, 412, 343, 372, 317, 222, 426, 453, 237, 433, 347, 243, 454, 318, 376, 428, 238, 359, 457, 399, 434, 349, 245, 458, 363, 127, 191, 407, 436, 465, 246, 350, 460, 249, 411, 365, 440, 374, 423, 466, 250, 371, 481, 413, 366, 468, 429, 252, 373, 482, 427, 414, 223, 472, 455, 377, 435, 319, 484, 430, 488, 239, 378, 459, 437, 380, 461, 496, 351, 467, 438, 251, 462, 442, 441, 469, 247, 367, 253, 375, 444, 470, 483, 415, 485, 473, 474, 254, 379, 431, 489, 486, 476, 439, 490, 463, 381, 497, 492, 443, 382, 498, 445, 471, 500, 446, 475, 487, 504, 255, 477, 491, 478, 383, 493, 499, 502, 494, 501, 447, 505, 506, 479, 508, 495, 503, 507, 509, 510, 511]

[0101] Table Q12, having a sequence length of 512:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	64	44	128	139	192	388	256	338	320	450	384	343	448	461
1	1	65	131	129	99	193	91	257	312	321	334	385	372	449	496
2	2	66	81	130	86	194	198	258	390	322	233	386	317	450	351
3	4	67	50	131	60	195	172	259	174	323	175	387	222	451	467
4	8	68	73	132	280	196	120	260	393	324	123	388	426	452	438
5	16	69	15	133	89	197	201	261	283	325	341	389	453	453	251

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6	32	70	320	134	290	198	336	262	122	326	220	390	237	454	462
7	3	71	133	135	196	199	62	263	448	327	314	391	433	455	442
8	5	72	52	136	141	200	282	264	353	328	424	392	347	456	441
9	64	73	23	137	101	201	143	265	203	329	395	393	243	457	469
10	9	74	134	138	147	202	103	266	63	330	355	394	454	458	247
11	6	75	384	139	176	203	178	267	340	331	287	395	318	459	367
12	17	76	76	140	142	204	294	268	394	332	183	396	376	460	253
13	10	77	137	141	321	205	93	269	181	333	234	397	428	461	375
14	18	78	82	142	31	206	202	270	295	334	125	398	238	462	444
15	128	79	56	143	200	207	323	271	285	335	342	399	359	463	470
16	12	80	27	144	90	208	392	272	232	336	316	400	457	464	483
17	33	81	97	145	292	209	297	273	124	337	241	401	399	465	415
18	65	82	39	146	322	210	107	274	205	338	345	402	434	466	485
19	20	83	259	147	263	211	180	275	182	339	452	403	349	467	473
20	256	84	84	148	149	212	151	276	286	340	397	404	245	468	474
21	34	85	138	149	102	213	209	277	299	341	403	405	458	469	254
22	24	86	145	150	105	214	284	278	354	342	207	406	363	470	379
23	36	87	261	151	304	215	94	279	211	343	432	407	127	471	431
24	7	88	29	152	296	216	204	280	401	344	357	408	191	472	489
25	129	89	43	153	163	217	298	281	185	345	187	409	407	473	486
26	66	90	98	154	92	218	400	282	396	346	236	410	436	474	476
27	11	91	88	155	47	219	352	283	344	347	126	411	465	475	439
28	40	92	140	156	267	220	325	284	240	348	242	412	246	476	490
29	68	93	30	157	385	221	155	285	206	349	398	413	350	477	463
30	130	94	146	158	324	222	210	286	95	350	346	414	460	478	381
31	19	95	71	159	208	223	305	287	327	351	456	415	249	479	497
32	13	96	262	160	386	224	300	288	402	352	358	416	411	480	492
33	48	97	265	161	150	225	109	289	356	353	405	417	365	481	443
34	14	98	161	162	153	226	184	290	307	354	303	418	440	482	382
35	72	99	45	163	165	227	115	291	301	355	244	419	374	483	498
36	257	100	100	164	106	228	167	292	417	356	189	420	423	484	445
37	21	101	51	165	55	229	225	293	213	357	361	421	466	485	471
38	132	102	148	166	328	230	326	294	186	358	215	422	250	486	500
39	35	103	46	167	113	231	306	295	404	359	348	423	371	487	446
40	258	104	75	168	154	232	157	296	227	360	419	424	481	488	475
41	26	105	266	169	79	233	329	297	418	361	406	425	413	489	487
42	80	106	273	170	269	234	110	298	302	362	464	426	366	490	504

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43	37	107	104	171	108	235	117	299	360	383	362	427	468	491	255
44	25	108	162	172	224	236	212	300	111	384	409	428	429	492	477
45	22	109	53	173	166	237	171	301	331	385	219	429	252	493	491
46	136	110	193	174	195	238	330	302	214	386	311	430	373	494	478
47	260	111	152	175	270	239	226	303	309	387	421	431	482	495	383
48	264	112	77	176	275	240	387	304	188	388	410	432	427	496	493
49	38	113	164	177	291	241	308	305	449	389	231	433	414	497	499
50	96	114	268	178	59	242	216	306	217	390	248	434	223	498	502
51	67	115	274	179	169	243	416	307	408	391	369	435	472	499	494
52	41	116	54	180	114	244	271	308	229	392	190	436	455	500	501
53	144	117	83	181	277	245	279	309	159	393	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	394	335	438	435	502	505
55	69	119	112	183	87	247	337	311	310	395	480	439	319	503	506
56	42	120	135	184	197	248	118	312	333	396	315	440	484	504	479
57	49	121	78	185	116	249	332	313	119	397	221	441	430	505	508
58	74	122	289	186	170	250	389	314	339	398	370	442	488	506	495
59	272	123	194	187	61	251	173	315	218	399	422	443	239	507	503
60	160	124	85	188	281	252	121	316	368	400	425	444	378	508	507
61	288	125	276	189	278	253	199	317	230	401	451	445	459	509	509
62	192	126	58	190	177	254	179	318	391	402	235	446	437	510	510
63	70	127	168	191	293	255	228	319	313	403	412	447	380	511	511

[0102] Sequence Q13, having a sequence length of 256:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 65, 20, 34, 24, 36, 7, 129, 66, 11, 40, 68, 130, 19, 13, 48, 14, 72, 21, 132, 35, 26, 80, 37, 25, 22, 136, 38, 96, 67, 41, 144, 28, 69, 42, 49, 74, 160, 192, 70, 44, 131, 81, 50, 73, 15, 133, 52, 23, 134, 76, 137, 82, 56, 27, 97, 39, 84, 138, 145, 29, 43, 98, 88, 140, 30, 146, 71, 161, 45, 100, 51, 148, 46, 75, 104, 162, 53, 193, 152, 77, 164, 54, 83, 57, 112, 135, 78, 194, 85, 58, 168, 139, 99, 86, 60, 89, 196, 141, 101, 147, 176, 142, 31, 200, 90, 149, 102, 105, 163, 92, 47, 208, 150, 153, 165, 106, 55, 113, 154, 79, 108, 224, 166, 195, 59, 169, 114, 156, 87, 197, 116, 170, 61, 177, 91, 198, 172, 120, 201, 62, 143, 103, 178, 93, 202, 107, 180, 151, 209, 94, 204, 155, 210, 109, 184, 115, 167, 225, 157, 110, 117, 212, 171, 226, 216, 158, 118, 173, 121, 199, 179, 228, 174, 122, 203, 63, 181, 232, 124, 205, 182, 211, 185, 240, 206, 95, 213, 186, 227, 111, 214, 188, 217, 229, 159, 119, 218, 230, 233, 175, 123, 220, 183, 234, 125, 241, 207, 187, 236, 126, 242, 244, 189, 215, 219, 231, 248, 190, 221, 235, 222, 237, 243, 238, 245, 127, 191, 246, 249, 250, 252, 223, 239, 251, 247, 253, 254, 255]

[0103] Table Q13, having a sequence length of 256:

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Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	32	48	64	52	96	152	128	47	160	178	192	203	224	207
1	1	33	14	65	23	97	77	129	208	161	93	193	63	225	187
2	2	34	72	66	134	98	164	130	150	162	202	194	181	226	236
3	4	35	21	67	76	99	54	131	153	163	107	195	232	227	126
4	8	36	132	68	137	100	83	132	165	164	180	196	124	228	242
5	16	37	35	69	82	101	57	133	106	165	151	197	205	229	244
6	32	38	26	70	56	102	112	134	55	166	209	198	182	230	189
7	3	39	80	71	27	103	135	135	113	167	94	199	211	231	215
8	5	40	37	72	97	104	78	136	154	168	204	200	185	232	219
9	64	41	25	73	39	105	194	137	79	169	155	201	240	233	231
10	9	42	22	74	84	106	85	138	108	170	210	202	206	234	248
11	6	43	136	75	138	107	58	139	224	171	109	203	95	235	190
12	17	44	38	76	145	108	168	140	166	172	184	204	213	236	221
13	10	45	96	77	29	109	139	141	195	173	115	205	186	237	235
14	18	46	67	78	43	110	99	142	59	174	167	206	227	238	222
15	128	47	41	79	98	111	86	143	169	175	225	207	111	239	237
16	12	48	144	80	88	112	60	144	114	176	157	208	214	240	243
17	33	49	28	81	140	113	89	145	156	177	110	209	188	241	238
18	65	50	69	82	30	114	196	146	87	178	117	210	217	242	245
19	20	51	42	83	146	115	141	147	197	179	212	211	229	243	127
20	34	52	49	84	71	116	101	148	116	180	171	212	159	244	191
21	24	53	74	85	161	117	147	149	170	181	226	213	119	245	246
22	36	54	160	86	45	118	176	150	61	182	216	214	218	246	249
23	7	55	192	87	100	119	142	151	177	183	158	215	230	247	250
24	129	56	70	88	51	120	31	152	91	184	118	216	233	248	252
25	66	57	44	89	148	121	200	153	198	185	173	217	175	249	223
26	11	58	131	90	46	122	90	154	172	186	121	218	123	250	239
27	40	59	81	91	75	123	149	155	120	187	199	219	220	251	251
28	68	60	50	92	104	124	102	156	201	188	179	220	183	252	247
29	130	61	73	93	162	125	105	157	62	189	228	221	234	253	253
30	19	62	15	94	53	126	163	158	143	190	174	222	125	254	254

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31	13	63	133	95	193	127	92	159	103	191	122	223	241	255	255

[0104] Sequence Q14, having a sequence length of 128:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 12, 33, 65, 20, 34, 24, 36, 7, 66, 11, 40, 68, 19, 13, 48, 14, 72, 21, 35, 26, 80, 37, 25, 22, 38, 96, 67, 41, 28, 69, 42, 49, 74, 70, 44, 81, 50, 73, 15, 52, 23, 76, 82, 56, 27, 97, 39, 84, 29, 43, 98, 88, 30, 71, 45, 100, 51, 46, 75, 104, 53, 77, 54, 83, 57, 112, 78, 85, 58, 99, 86, 60, 89, 101, 31, 90, 102, 105, 92, 47, 106, 55, 113, 79, 108, 59, 114, 87, 116, 61, 91, 120, 62, 103, 93, 107, 94, 109, 115, 110, 117, 118, 121, 122, 63, 124, 95, 111, 119, 123, 125, 126, 127]

[0105] Table Q14, having a sequence length of 128:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	16	33	32	21	48	70	64	43	80	112	96	55	112	109
1	1	17	65	33	35	49	44	65	98	81	78	97	113	113	115
2	2	18	20	34	26	50	81	66	88	82	85	98	79	114	110
3	4	19	34	35	80	51	50	67	30	83	58	99	108	115	117
4	8	20	24	36	37	52	73	68	71	84	99	100	59	116	118
5	16	21	36	37	25	53	15	69	45	85	86	101	114	117	121
6	32	22	7	38	22	54	52	70	100	86	60	102	87	118	122
7	3	23	66	39	38	55	23	71	51	87	89	103	116	119	63
8	5	24	11	40	96	56	76	72	46	88	101	104	61	120	124
9	64	25	40	41	67	57	82	73	75	89	31	105	91	121	95
10	9	26	68	42	41	58	56	74	104	90	90	106	120	122	111
11	6	27	19	43	28	59	27	75	53	91	102	107	62	123	119
12	17	28	13	44	69	60	97	76	77	92	105	108	103	124	123
13	10	29	48	45	42	61	39	77	54	93	92	109	93	125	125
14	18	30	14	46	49	62	84	78	83	94	47	110	107	126	126
15	12	31	72	47	74	63	29	79	57	95	106	111	94	127	127

[0106] Sequence Q15, having a sequence length of 64:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 9, 6, 17, 10, 18, 12, 33, 20, 34, 24, 36, 7, 11, 40, 19, 13, 48, 14, 21, 35, 26, 37, 25, 22, 38, 41, 28, 42, 49, 44, 50, 15, 52, 23, 56, 27, 39, 29, 43, 30, 45, 51, 46, 53, 54, 57, 58, 60, 31, 47, 55, 59, 61, 62, 63]

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[0107] Table Q15, having a sequence length of 64:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	8	5	16	20	24	13	32	22	40	15	48	30	56	60
1	1	9	9	17	34	25	48	33	38	41	52	49	45	57	31
2	2	10	6	18	24	26	14	34	41	42	23	50	51	58	47
3	4	11	17	19	36	27	21	35	28	43	56	51	46	59	55
4	8	12	10	20	7	28	35	36	42	44	27	52	53	60	59
5	16	13	18	21	11	29	26	37	49	45	39	53	54	61	61
6	32	14	12	22	40	30	37	38	44	46	29	54	57	62	62
7	3	15	33	23	19	31	25	39	50	47	43	55	58	63	63

[0108] Sequence Z11, having a sequence length of 1024:

[0, 1, 2, 7, 3, 8, 11, 24, 4, 10, 13, 28, 16, 33, 35, 76, 5, 12, 14, 32, 19, 38, 47, 80, 22, 46, 42, 87, 57, 95, 101, 160, 6, 17, 21, 40, 23, 45, 51, 89, 29, 55, 59, 96, 71, 108, 113, 175, 34, 61, 74, 111, 79, 120, 129, 186, 86, 131, 141, 208, 146, 218, 236, 327, 9, 18, 26, 54, 30, 58, 70, 103, 36, 75, 62, 114, 83, 123, 135, 193, 44, 73, 85, 130, 91, 138, 145, 214, 99, 148, 162, 228, 174, 242, 256, 357, 53, 88, 97, 144, 109, 154, 169, 239, 118, 170, 185, 250, 195, 269, 282, 382, 133, 191, 211, 273, 216, 283, 301, 403, 233, 307, 322, 419, 337, 434, 460, 582, 15, 25, 31, 72, 39, 78, 81, 134, 48, 84, 92, 143, 100, 153, 157, 238, 56, 93, 102, 155, 112, 168, 182, 252, 122, 183, 192, 264, 213, 279, 297, 395, 64, 106, 119, 173, 124, 184, 198, 274, 142, 209, 217, 285, 232, 306, 317, 418, 156, 225, 240, 311, 251, 333, 339, 432, 270, 348, 370, 453, 386, 472, 511, 583, 68, 121, 137, 201, 152, 215, 231, 309, 161, 234, 244, 326, 257, 338, 356, 447, 180, 253, 265, 346, 284, 366, 384, 478, 293, 388, 406, 494, 424, 518, 532, 641, 197, 275, 288, 373, 312, 394, 409, 506, 336, 415, 433, 526, 454, 535, 567, 671, 355, 440, 461, 552, 470, 577, 591, 695, 509, 598, 613, 690, 629, 714, 743, 830, 20, 37, 41, 90, 49, 94, 104, 167, 50, 105, 115, 176, 126, 194, 202, 295, 63, 116, 127, 205, 139, 212, 223, 296, 147, 222, 237, 321, 254, 335, 342, 431, 66, 136, 149, 207, 164, 226, 241, 334, 172, 248, 258, 344, 268, 364, 377, 468, 171, 266, 277, 363, 292, 385, 397, 495, 314, 411, 425, 517, 439, 531, 555, 663, 77, 159, 165, 246, 179, 262, 276, 358, 187, 281, 287, 383, 302, 402, 414, 515, 235, 298, 313, 405, 328, 422, 438, 528, 350, 443, 464, 550, 481, 576, 593, 686, 261, 324, 345, 430, 362, 452, 466, 568, 380, 475, 487, 581, 512, 605, 619, 707, 407, 510, 519, 614, 529, 630, 609, 721, 560, 660, 672, 749, 677, 779, 794, 846, 82, 177, 181, 291, 227, 305, 316, 410, 247, 320, 329, 427, 349, 445, 463, 570, 259, 347, 361, 446,

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372, 467, 483, 585, 389, 489, 505, 601, 527, 617, 640, 725, 294, 365, 376, 482, 396, 500, 521, 610, 426, 522, 533, 638, 561, 627, 667, 751, 451, 546, 574, 661, 586, 676, 688, 770, 606, 693, 692, 790, 722, 801, 813, 877, 323, 387, 412, 523, 444, 534, 554, 647, 465, 569, 578, 673, 597, 679, 691, 777, 484, 589, 611, 687, 620, 694, 723, 802, 646, 729, 740, 816, 760, 834, 844, 905, 516, 615, 636, 724, 666, 726, 756, 821, 670, 753, 772, 840, 786, 853, 870, 924, 680, 780, 798, 859, 808, 873, 865, 930, 828, 885, 893, 946, 909, 954, 963, 984, 27, 43, 52, 98, 60, 117, 128, 199, 65, 132, 140, 204, 151, 220, 224, 330, 67, 150, 158, 219, 166, 263, 271, 354, 188, 272, 290, 381, 304, 398, 413, 525, 69, 163, 178, 267, 190, 289, 299, 392, 200, 308, 318, 416, 332, 435, 449, 536, 210, 325, 341, 442, 359, 462, 473, 564, 367, 469, 490, 588, 493, 600, 616, 745, 107, 189, 196, 303, 206, 319, 331, 429, 229, 343, 351, 457, 369, 477, 488, 572, 245, 353, 375, 471, 391, 492, 497, 594, 404, 498, 504, 618, 545, 631, 656, 752, 260, 390, 400, 503, 421, 520, 524, 624, 437, 544, 557, 645, 580, 664, 674, 773, 456, 566, 587, 675, 607, 685, 709, 787, 635, 712, 730, 803, 741, 819, 836, 903, 110, 203, 221, 340, 243, 352, 371, 480, 255, 378, 393, 499, 408, 508, 513, 621, 280, 401, 420, 514, 436, 541, 553, 642, 455, 562, 579, 669, 595, 681, 700, 774, 300, 428, 448, 556, 474, 575, 573, 682, 485, 590, 599, 696, 625, 710, 718, 805, 507, 608, 633, 715, 643, 735, 742, 822, 659, 750, 764, 841, 789, 855, 871, 925, 315, 459, 476, 592, 496, 604, 626, 713, 539, 634, 650, 738, 653, 744, 758, 833, 547, 651, 658, 755, 683, 763, 783, 852, 704, 788, 797, 860, 812, 878, 888, 933, 563, 689, 698, 775, 719, 791, 800, 867, 731, 810, 823, 884, 837, 894, 907, 949, 766, 825, 842, 897, 857, 911, 916, 961, 868, 921, 929, 966, 940, 974, 983, 1003, 125, 230, 249, 379, 278, 399, 417, 530, 286, 423, 441, 543, 458, 559, 584, 701, 310, 450, 479, 571, 491, 603, 596, 706, 501, 612, 628, 728, 648, 736, 747, 829, 360, 486, 502, 602, 538, 623, 637, 739, 542, 649, 655, 748, 665, 759, 769, 848, 548, 662, 678, 768, 703, 782, 795, 861, 716, 807, 811, 879, 824, 889, 900, 944, 368, 537, 540, 644, 549, 652, 668, 762, 565, 684, 697, 778, 711, 792, 809, 875, 632, 702, 720, 796, 732, 817, 826, 886, 761, 827, 843, 898, 858, 910, 915, 960, 654, 734, 754, 818, 767, 839, 850, 902, 785, 854, 863, 914, 874, 922, 932, 969, 799, 869, 881, 928, 892, 935, 943, 976, 904, 947, 953, 981, 958, 989, 991, 1011, 374, 551, 558, 699, 622, 708, 717, 806, 639, 727, 737, 820, 757, 832, 847, 901, 657, 746, 765, 835, 776, 851, 864, 913, 793, 872, 862, 919, 887, 931, 939, 972, 705, 771, 781, 856, 804, 866, 880, 926, 815, 882, 891, 936, 899, 941, 950, 980, 838, 895, 906, 945, 917, 955, 959, 987, 923, 965, 968, 993, 975, 996, 998, 1008, 733, 784, 814, 883, 831, 890, 896, 942, 845, 908, 912, 952, 920, 956, 967, 990, 849, 918, 927, 964, 938, 970, 971, 997, 948, 977, 979, 999, 985, 1004, 1006, 1016, 876, 934, 937, 973, 951, 978, 982, 1001, 957, 986, 988, 1005, 994, 1007, 1012, 1018, 962, 992, 995, 1009, 1000, 1010, 1013, 1019, 1002, 1014, 1015, 1020, 1017, 1021, 1022, 1023]

[0109] Table Z11, having a sequence length of 1024:

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Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	128	15	256	20	384	82	512	27	640	110	768	125	896	374
1	1	129	25	257	37	385	177	513	43	641	203	769	230	897	551
2	2	130	31	258	41	386	181	514	52	642	221	770	249	898	558
3	7	131	72	259	90	387	291	515	98	643	340	771	379	899	699
4	3	132	39	260	49	388	227	516	60	644	243	772	278	900	622
5	8	133	78	261	94	389	305	517	117	645	352	773	399	901	708
6	11	134	81	262	104	390	316	518	128	646	371	774	417	902	717
7	24	135	134	263	167	391	410	519	199	647	480	775	530	903	806
8	4	136	48	264	50	392	247	520	65	648	255	776	286	904	639
9	10	137	84	265	105	393	320	521	132	649	378	777	423	905	727
10	13	138	92	266	115	394	329	522	140	650	393	778	441	906	737
11	28	139	143	267	176	395	427	523	204	651	499	779	543	907	820
12	16	140	100	268	126	396	349	524	151	652	408	780	458	908	757
13	33	141	153	269	194	397	445	525	220	653	508	781	559	909	832
14	35	142	157	270	202	398	463	526	224	654	513	782	584	910	847
15	76	143	238	271	295	399	570	527	330	655	621	783	701	911	901
16	5	144	56	272	63	400	259	528	67	656	280	784	310	912	657
17	12	145	93	273	116	401	347	529	150	657	401	785	450	913	746
18	14	146	102	274	127	402	361	530	158	658	420	786	479	914	765
19	32	147	155	275	205	403	446	531	219	659	514	787	571	915	835
20	19	148	112	276	139	404	372	532	166	660	436	788	491	916	776
21	38	149	168	277	212	405	467	533	263	661	541	789	603	917	851
22	47	150	182	278	223	406	483	534	271	662	553	790	596	918	864
23	80	151	252	279	296	407	585	535	354	663	642	791	706	919	913
24	22	152	122	280	147	408	389	536	188	664	455	792	501	920	793
25	46	153	183	281	222	409	489	537	272	665	562	793	612	921	872
26	42	154	192	282	237	410	505	538	290	666	579	794	628	922	862
27	87	155	264	283	321	411	601	539	381	667	669	795	728	923	919
28	57	156	213	284	254	412	527	540	304	668	595	796	648	924	887
29	95	157	279	285	335	413	617	541	398	669	681	797	736	925	931
30	101	158	297	286	342	414	640	542	413	670	700	798	747	926	939

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31	160	159	395	287	431	415	725	543	525	431	774	299	829	927	972
32	6	160	64	288	66	416	294	544	69	628	300	800	360	928	705
33	17	161	106	289	136	417	365	545	163	629	428	801	486	929	771
34	21	162	119	290	149	418	376	546	178	634	448	802	502	930	781
35	40	163	173	291	207	419	482	547	267	675	556	803	602	931	856
36	23	164	124	292	164	420	396	548	190	676	474	804	538	932	804
37	45	165	184	293	226	421	500	549	289	677	575	805	623	933	866
38	51	166	198	294	241	422	521	550	299	678	573	806	637	934	880
39	89	167	274	295	334	423	610	551	392	679	682	807	739	935	926
40	29	168	142	296	172	424	426	552	200	680	485	808	542	936	815
41	55	169	209	297	248	425	522	553	308	681	590	809	649	937	882
42	59	170	217	298	258	426	533	554	318	682	599	810	655	938	891
43	96	171	285	299	344	427	638	555	416	683	696	811	748	939	936
44	71	172	232	300	268	428	561	556	332	684	625	812	665	940	899
45	108	173	306	301	364	429	627	557	435	685	710	813	759	941	941
46	113	174	317	302	377	430	667	558	449	686	718	814	769	942	950
47	175	175	418	303	468	431	751	559	536	687	805	815	848	943	980
48	34	176	156	304	171	432	451	560	210	688	507	816	548	944	838
49	61	177	225	305	266	433	546	561	325	689	608	817	662	945	895
50	74	178	240	306	277	434	574	562	341	690	633	818	678	946	906
51	111	179	311	307	363	435	661	563	442	691	715	819	768	947	945
52	79	180	251	308	292	436	586	564	359	692	643	820	703	948	917
53	120	181	333	309	385	437	676	565	462	693	735	821	782	949	955
54	129	182	339	310	397	438	688	566	473	694	742	822	795	950	959
55	186	183	432	311	495	439	770	567	564	695	822	823	861	951	987
56	86	184	270	312	314	440	606	568	367	696	659	824	716	952	923
57	131	185	348	313	411	441	693	569	469	697	750	825	807	953	965
58	141	186	370	314	425	442	692	570	490	698	764	826	811	954	968
59	208	187	453	315	517	443	790	571	588	699	841	827	879	955	993
60	146	188	386	316	439	444	722	572	493	700	789	828	824	956	975
61	218	189	472	317	531	445	801	573	600	701	855	829	889	957	996
62	236	190	511	318	555	446	813	574	616	702	871	830	900	958	998
63	327	191	583	319	663	447	877	575	745	703	925	831	944	959	1008
64	9	192	68	320	77	448	323	576	107	704	315	832	368	960	733
65	18	193	121	321	159	449	387	577	189	705	459	833	537	961	784
66	26	194	137	322	165	450	412	578	196	706	476	834	540	962	814
67	54	195	201	323	246	451	523	579	303	707	592	835	644	963	883

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68	30	196	152	324	179	452	444	580	206	708	496	836	549	964	831
69	58	197	215	325	262	453	534	581	319	709	604	837	652	965	890
70	70	198	231	326	276	454	554	582	331	710	626	838	668	966	896
71	103	199	309	327	358	455	647	583	429	711	713	839	762	967	942
72	36	200	161	328	187	456	465	584	229	712	539	840	565	968	845
73	75	201	234	329	281	457	569	585	343	713	634	841	684	969	908
74	62	202	244	330	287	458	578	586	351	714	650	842	697	970	912
75	114	203	326	331	383	459	673	587	457	715	738	843	778	971	952
76	83	204	257	332	302	460	597	588	369	716	653	844	711	972	920
77	123	205	338	333	402	461	679	589	477	717	744	845	792	973	956
78	135	206	356	334	414	462	691	590	488	718	758	846	809	974	967
79	193	207	447	335	515	463	777	591	572	719	833	847	875	975	990
80	44	208	180	336	235	464	484	592	245	720	547	848	632	976	849
81	73	209	253	337	298	465	589	593	353	721	651	849	702	977	918
82	85	210	265	338	313	466	611	594	375	722	658	850	720	978	927
83	130	211	346	339	405	467	687	595	471	723	755	851	796	979	964
84	91	212	284	340	328	468	620	596	391	724	683	852	732	980	938
85	138	213	366	341	422	469	694	597	492	725	763	853	817	981	970
86	145	214	384	342	438	470	723	598	497	726	783	854	826	982	971
87	214	215	478	343	528	471	802	599	594	727	852	855	886	983	997
88	99	216	293	344	350	472	646	600	404	728	704	856	761	984	948
89	148	217	388	345	443	473	729	601	498	729	788	857	827	985	977
90	162	218	406	346	464	474	740	602	504	730	797	858	843	986	979
91	228	219	494	347	550	475	816	603	618	731	860	859	898	987	999
92	174	220	424	348	481	476	760	604	545	732	812	860	858	988	985
93	242	221	518	349	576	477	834	605	631	733	878	861	910	989	1004
94	256	222	532	350	593	478	844	606	656	734	888	862	915	990	1006
95	357	223	641	351	686	479	905	607	752	735	933	863	960	991	1016
96	53	224	197	352	261	480	516	608	260	736	563	864	654	992	876
97	88	225	275	353	324	481	615	609	390	737	689	865	734	993	934
98	97	226	288	354	345	482	636	610	400	738	698	866	754	994	937
99	144	227	373	355	430	483	724	611	503	739	775	867	818	995	973
100	109	228	312	356	362	484	666	612	421	740	719	868	767	996	951
101	154	229	394	357	452	485	726	613	520	741	791	869	839	997	978
102	169	230	409	358	466	486	756	614	524	742	800	870	850	998	982
103	239	231	506	359	568	487	821	615	624	743	867	871	902	999	1001
104	118	232	336	360	380	488	670	616	437	744	731	872	785	1000	957

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105	170	233	415	361	475	489	753	617	544	745	810	873	854	1001	986
106	185	234	433	362	487	490	772	618	557	746	823	874	863	1002	988
107	250	235	526	363	581	491	840	619	645	747	884	875	914	1003	1005
108	195	236	454	364	512	492	786	620	580	748	837	876	874	1004	994
109	269	237	535	365	605	493	853	621	664	749	894	877	922	1005	1007
110	282	238	567	366	619	494	870	622	674	750	907	878	932	1006	1012
111	382	239	671	367	707	495	924	623	773	751	949	879	969	1007	1018
112	133	240	355	368	407	496	680	624	456	752	766	880	799	1008	962
113	191	241	440	369	510	497	780	625	566	753	825	881	869	1009	992
114	211	242	461	370	519	498	798	626	587	754	842	882	881	1010	995
115	273	243	552	371	614	499	859	627	675	755	897	883	928	1011	1009
116	216	244	470	372	529	500	808	628	607	756	857	884	892	1012	1000
117	283	245	577	373	630	501	873	629	685	757	911	885	935	1013	1010
118	301	246	591	374	609	502	865	630	709	758	916	886	943	1014	1013
119	403	247	695	375	721	503	930	631	787	759	961	887	976	1015	1019
120	233	248	509	376	560	504	828	632	635	760	868	888	904	1016	1002
121	307	249	598	377	660	505	885	633	712	761	921	889	947	1017	1014
122	322	250	613	378	672	506	893	634	730	762	929	890	953	1018	1015
123	419	251	690	379	749	507	946	635	803	763	966	891	981	1019	1020
124	337	252	629	380	677	508	909	636	741	764	940	892	958	1020	1017
125	434	253	714	381	779	509	954	637	819	765	974	893	989	1021	1021
126	460	254	743	382	794	510	963	638	836	766	983	894	991	1022	1022
127	582	255	830	383	846	511	984	639	903	767	1003	895	1011	1023	1023

[0110] Sequence Z12, having a sequence length of 512:

[0, 1, 2, 7, 3, 8, 11, 24, 4, 10, 13, 27, 16, 32, 34, 69, 5, 12, 14, 31, 19, 37, 45, 73, 22, 44, 41, 80, 54, 88, 93, 142, 6, 17, 21, 39, 23, 43, 49, 82, 28, 52, 56, 89, 64, 99, 103, 155, 33, 57, 67, 101, 72, 109, 116, 165, 79, 118, 126, 178, 131, 187, 199, 266, 9, 18, 26, 51, 29, 55, 63, 95, 35, 68, 58, 104, 76, 112, 121, 169, 42, 66, 78, 117, 84, 124, 130, 183, 91, 133, 144, 193, 154, 205, 215, 286, 50, 81, 90, 129, 100, 137, 149, 202, 107, 150, 164, 210, 171, 225, 234, 300, 119, 167, 180, 227, 185, 235, 248, 313, 196, 252, 262, 324, 273, 334, 347, 407, 15, 25, 30, 65, 38, 71, 74, 120, 46, 77, 85, 128, 92, 136, 140, 201, 53, 86, 94, 138, 102, 148, 161, 212, 111, 162, 168, 221, 182, 232, 246, 309, 60, 98, 108, 153, 113, 163, 173, 228, 127, 179, 186, 237, 195, 251, 259, 323, 139, 190, 203, 254, 211, 269, 275, 332, 226, 281, 294, 345, 304, 356, 372, 408, 62, 110, 123, 174, 135, 184, 194, 253, 143, 197, 206, 265, 216, 274, 285, 342, 159, 213, 222, 279, 236, 293, 302, 358, 242, 306, 315, 365, 326, 377, 387, 434, 172, 229, 239, 296, 255, 308, 317, 369, 272, 322, 333, 382, 346, 390, 398, 443, 284, 337,

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348, 393, 355, 404, 412, 458, 370, 415, 422, 453, 429, 460, 469, 491, 20, 36, 40, 83, 47, 87, 96, 147, 48, 97, 105, 156, 114, 170, 175, 244, 59, 106, 115, 176, 125, 181, 189, 245, 132, 188, 200, 261, 214, 271, 276, 331, 61, 122, 134, 177, 145, 191, 204, 270, 152, 209, 217, 277, 224, 291, 298, 354, 151, 223, 231, 290, 241, 303, 311, 366, 257, 319, 327, 376, 336, 386, 395, 439, 70, 141, 146, 207, 158, 220, 230, 287, 166, 233, 238, 301, 249, 312, 321, 374, 198, 247, 256, 314, 267, 325, 335, 384, 283, 338, 350, 392, 359, 403, 413, 450, 219, 264, 278, 330, 289, 344, 352, 399, 299, 357, 363, 406, 373, 417, 426, 459, 316, 371, 378, 423, 385, 430, 419, 461, 396, 437, 444, 470, 447, 478, 482, 495, 75, 157, 160, 240, 192, 250, 258, 318, 208, 260, 268, 329, 282, 340, 349, 401, 218, 280, 288, 341, 295, 353, 361, 409, 307, 364, 368, 416, 383, 425, 433, 465, 243, 292, 297, 360, 310, 367, 379, 420, 328, 380, 388, 432, 397, 428, 441, 471, 343, 391, 402, 438, 410, 446, 452, 475, 418, 456, 455, 481, 462, 484, 487, 501, 263, 305, 320, 381, 339, 389, 394, 436, 351, 400, 405, 445, 414, 448, 454, 477, 362, 411, 421, 451, 427, 457, 463, 485, 435, 467, 468, 488, 474, 492, 494, 504, 375, 424, 431, 464, 440, 466, 473, 489, 442, 472, 476, 493, 480, 496, 499, 506, 449, 479, 483, 497, 486, 500, 498, 507, 490, 502, 503, 508, 505, 509, 510, 511]

[0111] Table Z12, having a sequence length of 512:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	64	9	128	15	192	62	256	20	320	70	384	75	448	263
1	1	65	18	129	25	193	110	257	36	321	141	385	157	449	305
2	2	66	26	130	30	194	123	258	40	322	146	386	160	450	320
3	7	67	51	131	65	195	174	259	83	323	207	387	240	451	381
4	3	68	29	132	38	196	135	260	47	324	158	388	192	452	339
5	8	69	55	133	71	197	184	261	87	325	220	389	250	453	389
6	11	70	63	134	74	198	194	262	96	326	230	390	258	454	394
7	24	71	95	135	120	199	253	263	147	327	287	391	318	455	436
8	4	72	35	136	46	200	143	264	48	328	166	392	208	456	351
9	10	73	68	137	77	201	197	265	97	329	233	393	260	457	400
10	13	74	58	138	85	202	206	266	105	330	238	394	268	458	405
11	27	75	104	139	128	203	265	267	156	331	301	395	329	459	445
12	16	76	76	140	92	204	216	268	114	332	249	396	282	460	414
13	32	77	112	141	136	205	274	269	170	333	312	397	340	461	448

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14	34	78	121	142	140	206	285	270	175	334	321	398	349	462	454
15	69	79	169	143	201	207	342	271	244	333	374	399	401	463	477
16	5	80	42	144	53	208	159	272	59	336	198	400	218	464	362
17	12	81	66	145	86	209	213	273	106	337	247	401	280	465	411
18	14	82	78	146	94	210	222	274	115	338	256	402	288	466	421
19	31	83	117	147	138	211	279	275	176	339	314	403	341	467	451
20	19	84	84	148	102	212	236	276	125	340	267	404	295	468	427
21	37	85	124	149	148	213	293	277	181	341	325	405	353	469	457
22	45	86	130	150	161	214	302	278	189	342	335	406	361	470	463
23	73	87	183	151	212	215	358	279	245	343	384	407	409	471	485
24	22	88	91	152	111	216	242	280	132	344	283	408	307	472	435
25	44	89	133	153	162	217	306	281	188	345	338	409	364	473	467
26	41	90	144	154	168	218	315	282	200	346	350	410	368	474	468
27	80	91	193	155	221	219	365	283	261	347	392	411	416	475	488
28	54	92	154	156	182	220	326	284	214	348	359	412	383	476	474
29	88	93	205	157	232	221	377	285	271	349	403	413	425	477	492
30	93	94	215	158	246	222	387	286	276	350	413	414	433	478	494
31	142	95	286	159	309	223	434	287	331	351	450	415	465	479	504
32	6	96	50	160	60	224	172	288	61	352	219	416	243	480	375
33	17	97	81	161	98	225	229	289	122	353	264	417	292	481	424
34	21	98	90	162	108	226	239	290	134	354	278	418	297	482	431
35	39	99	129	163	153	227	296	291	177	355	330	419	360	483	464
36	23	100	100	164	113	228	255	292	145	356	289	420	310	484	440
37	43	101	137	165	163	229	308	293	191	357	344	421	367	485	466
38	49	102	149	166	173	230	317	294	204	358	352	422	379	486	473
39	82	103	202	167	228	231	369	295	270	359	399	423	420	487	489
40	28	104	107	168	127	232	272	296	152	360	299	424	328	488	442
41	52	105	150	169	179	233	322	297	209	361	357	425	380	489	472
42	56	106	164	170	186	234	333	298	217	362	363	426	388	490	476
43	89	107	210	171	237	235	382	299	277	363	406	427	432	491	493
44	64	108	171	172	195	236	346	300	224	364	373	428	397	492	480
45	99	109	225	173	251	237	390	301	291	365	417	429	428	493	496
46	103	110	234	174	259	238	398	302	298	366	426	430	441	494	499
47	155	111	300	175	323	239	443	303	354	367	459	431	471	495	506
48	33	112	119	176	139	240	284	304	151	368	316	432	343	496	449
49	57	113	167	177	190	241	337	305	223	369	371	433	391	497	479
50	67	114	180	178	203	242	348	306	231	370	378	434	402	498	483

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51	101	115	227	179	254	243	393	307	290	371	423	435	438	499	497
52	72	116	185	180	211	244	355	308	241	372	385	436	410	500	486
53	109	117	235	181	269	245	404	309	303	373	430	437	446	501	500
54	116	118	248	182	275	246	412	310	311	374	419	438	452	502	498
55	165	119	313	183	332	247	458	311	366	375	461	439	475	503	507
56	79	120	196	184	226	248	370	312	257	376	396	440	418	504	490
57	118	121	252	185	281	249	415	313	319	377	437	441	456	505	502
58	126	122	262	186	294	250	422	314	327	378	444	442	455	506	503
59	178	123	324	187	345	251	453	315	376	379	470	443	481	507	508
60	131	124	273	188	304	252	429	316	336	380	447	444	462	508	505
61	187	125	334	189	356	253	460	317	386	381	478	445	484	509	509
62	199	126	347	190	372	254	469	318	395	382	482	446	487	510	510
63	266	127	407	191	408	255	491	319	439	383	495	447	501	511	511

[0112] Sequence Z13, having a sequence length of 256:

[0, 1, 2, 7, 3, 8, 11, 23, 4, 10, 13, 26, 16, 31, 33, 62, 5, 12, 14, 30, 19, 35, 42, 65, 21, 41, 38, 71, 49, 77, 82, 120, 6, 17, 20, 37, 22, 40, 44, 73, 27, 47, 51, 78, 57, 86, 90, 128, 32, 52, 60, 88, 64, 94, 99, 134, 70, 101, 107, 142, 112, 150, 157, 193, 9, 18, 25, 46, 28, 50, 56, 84, 34, 61, 53, 91, 67, 97, 104, 137, 39, 59, 69, 100, 74, 106, 111, 146, 80, 113, 122, 152, 127, 161, 167, 203, 45, 72, 79, 110, 87, 116, 124, 159, 92, 125, 133, 163, 138, 171, 177, 207, 102, 135, 144, 173, 148, 178, 184, 213, 155, 186, 191, 218, 196, 222, 227, 243, 15, 24, 29, 58, 36, 63, 66, 103, 43, 68, 75, 109, 81, 115, 119, 158, 48, 76, 83, 117, 89, 123, 130, 165, 96, 131, 136, 169, 145, 176, 183, 212, 54, 85, 93, 126, 98, 132, 140, 174, 108, 143, 149, 180, 154, 185, 190, 217, 118, 151, 160, 188, 164, 194, 198, 220, 172, 200, 205, 225, 209, 230, 235, 244, 55, 95, 105, 141, 114, 147, 153, 187, 121, 156, 162, 192, 168, 197, 202, 224, 129, 166, 170, 199, 179, 204, 208, 231, 182, 210, 214, 232, 219, 236, 238, 249, 139, 175, 181, 206, 189, 211, 215, 233, 195, 216, 221, 237, 226, 239, 241, 250, 201, 223, 228, 240, 229, 242, 245, 252, 234, 246, 247, 251, 248, 253, 254, 255]

[0113] Table Z13, having a sequence length of 256:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	32	6	64	9	96	45	128	15	160	54	192	55	224	139

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1	1	33	17	65	18	97	72	129	24	161	85	193	95	225	175
2	2	34	20	66	25	98	79	130	29	162	93	194	105	226	181
3	7	35	37	67	46	99	110	131	58	163	126	195	141	227	206
4	3	36	22	68	28	100	87	132	36	164	98	196	114	228	189
5	8	37	40	69	50	101	116	133	63	165	132	197	147	229	211
6	11	38	44	70	56	102	124	134	66	166	140	198	153	230	215
7	23	39	73	71	84	103	159	135	103	167	174	199	187	231	233
8	4	40	27	72	34	104	92	136	43	168	108	200	121	232	195
9	10	41	47	73	61	105	125	137	68	169	143	201	156	233	216
10	13	42	51	74	53	106	133	138	75	170	149	202	162	234	221
11	26	43	78	75	91	107	163	139	109	171	180	203	192	235	237
12	16	44	57	76	67	108	138	140	81	172	154	204	168	236	226
13	31	45	86	77	97	109	171	141	115	173	185	205	197	237	239
14	33	46	90	78	104	110	177	142	119	174	190	206	202	238	241
15	62	47	128	79	137	111	207	143	158	175	217	207	224	239	250
16	5	48	32	80	39	112	102	144	48	176	118	208	129	240	201
17	12	49	52	81	59	113	135	145	76	177	151	209	166	241	223
18	14	50	60	82	69	114	144	146	83	178	160	210	170	242	228
19	30	51	88	83	100	115	173	147	117	179	188	211	199	243	240
20	19	52	64	84	74	116	148	148	89	180	164	212	179	244	229
21	35	53	94	85	106	117	178	149	123	181	194	213	204	245	242
22	42	54	99	86	111	118	184	150	130	182	198	214	208	246	245
23	65	55	134	87	146	119	213	151	165	183	220	215	231	247	252
24	21	56	70	88	80	120	155	152	96	184	172	216	182	248	234
25	41	57	101	89	113	121	186	153	131	185	200	217	210	249	246
26	38	58	107	90	122	122	191	154	136	186	205	218	214	250	247
27	71	59	142	91	152	123	218	155	169	187	225	219	232	251	251
28	49	60	112	92	127	124	196	156	145	188	209	220	219	252	248
29	77	61	150	93	161	125	222	157	176	189	230	221	236	253	253
30	82	62	157	94	167	126	227	158	183	190	235	222	238	254	254
31	120	63	193	95	203	127	243	159	212	191	244	223	249	255	255

[0114] Sequence Z14, having a sequence length of 128:

[0, 1, 2, 7, 3, 8, 11, 22, 4, 10, 13, 24, 15, 28, 30, 53, 5, 12, 14, 27, 18, 32, 38, 55, 20, 37, 34, 59, 43, 63, 67, 89, 6, 16, 19, 33, 21, 36, 39, 61, 25, 42, 45, 64, 49, 69, 72, 94, 29, 46, 51, 71, 54, 75, 77, 96, 58, 79, 83, 100, 86, 104, 107, 119, 9, 17, 23, 41, 26, 44, 48, 68, 31, 52, 47, 73, 56, 76, 81, 98, 35, 50, 57, 78, 62, 82, 85, 102, 66, 87, 90, 105, 93, 109, 111, 121, 40, 60, 65, 84, 70, 88, 91, 108,

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74, 92, 95, 110, 99, 112, 114, 122, 80, 97, 101, 113, 103, 115, 116, 123, 106, 117, 118, 124, 120, 125, 126, 127]

[0115] Table Z14, having a sequence length of 128:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	16	5	32	6	48	29	64	9	80	35	96	40	112	80
1	1	17	12	33	16	49	46	65	17	81	50	97	60	113	97
2	2	18	14	34	19	50	51	66	23	82	57	98	65	114	101
3	7	19	27	35	33	51	71	67	41	83	78	99	84	115	113
4	3	20	18	36	21	52	54	68	26	84	62	100	70	116	103
5	8	21	32	37	36	53	75	69	44	85	82	101	88	117	115
6	11	22	38	38	39	54	77	70	48	86	85	102	91	118	116
7	22	23	55	39	61	55	96	71	68	87	102	103	108	119	123
8	4	24	20	40	25	56	58	72	31	88	66	104	74	120	106
9	10	25	37	41	42	57	79	73	52	89	87	105	92	121	117
10	13	26	34	42	45	58	83	74	47	90	90	106	95	122	118
11	24	27	59	43	64	59	100	75	73	91	105	107	110	123	124
12	15	28	43	44	49	60	86	76	56	92	93	108	99	124	120
13	28	29	63	45	69	61	104	77	76	93	109	109	112	125	125
14	30	30	67	46	72	62	107	78	81	94	111	110	114	126	126
15	53	31	89	47	94	63	119	79	98	95	121	111	122	127	127

[0116] Sequence Z15, having a sequence length of 64:

[0, 1, 2, 7, 3, 8, 10, 20, 4, 9, 12, 21, 14, 24, 26, 40, 5, 11, 13, 23, 16, 27, 32, 42, 18, 31, 29, 44, 35, 46, 48, 57, 6, 15, 17, 28, 19, 30, 33, 45, 22, 34, 36, 47, 38, 49, 51, 58, 25, 37, 39, 50, 41, 52, 53, 59, 43, 54, 55, 60, 56, 61, 62, 63]

[0117] Table Z15, having a sequence length of 64:

Date Reçue/Date Received 2020-06-09

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	8	4	16	5	24	18	32	6	40	22	48	25	56	43
1	1	9	9	17	11	25	31	33	15	41	34	49	37	57	54
2	2	10	12	18	13	26	29	34	17	42	36	50	39	58	55
3	7	11	21	19	23	27	44	35	28	43	47	51	50	59	60
4	3	12	14	20	16	28	35	36	19	44	38	52	41	60	56
5	8	13	24	21	27	29	46	37	30	45	49	53	52	61	61
6	10	14	26	22	32	30	48	38	33	46	51	54	53	62	62
7	20	15	40	23	42	31	57	39	45	47	58	55	59	63	63

[0118] Fourth group of sequences (a criterion that considers a performance balance under partial-order (partial-order) constraints).

[0119] Sequence Q16, having a sequence length of 1024:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 65, 20, 256, 34, 24, 36, 7, 129, 66, 512, 11, 40, 68, 130, 19, 13, 48, 14, 72, 257, 21, 132, 35, 258, 22, 80, 136, 513, 25, 37, 260, 264, 26, 96, 514, 38, 67, 41, 144, 28, 69, 516, 42, 272, 49, 70, 520, 160, 44, 131, 73, 288, 528, 192, 50, 74, 544, 52, 15, 133, 320, 81, 23, 134, 384, 76, 56, 259, 82, 137, 27, 97, 39, 84, 138, 145, 261, 29, 43, 98, 515, 88, 140, 30, 146, 71, 262, 265, 161, 576, 45, 100, 640, 51, 148, 46, 75, 266, 273, 517, 104, 162, 53, 193, 152, 77, 164, 768, 268, 274, 518, 54, 83, 57, 521, 112, 135, 78, 289, 194, 85, 276, 522, 58, 168, 139, 99, 86, 60, 280, 89, 290, 529, 524, 196, 141, 101, 147, 176, 142, 530, 321, 90, 200, 31, 545, 292, 322, 532, 263, 149, 102, 105, 296, 304, 163, 92, 47, 267, 150, 208, 385, 546, 386, 324, 106, 153, 165, 55, 328, 536, 577, 548, 113, 154, 79, 269, 108, 578, 224, 166, 519, 552, 195, 270, 641, 523, 275, 580, 291, 169, 59, 560, 114, 277, 156, 87, 197, 116, 170, 61, 531, 525, 642, 281, 278, 526, 177, 293, 388, 91, 584, 769, 198, 172, 120, 201, 336, 62, 282, 143, 103, 178, 294, 93, 644, 202, 592, 323, 392, 297, 770, 107, 180, 151, 209, 284, 648, 94, 204, 298, 400, 352, 608, 325, 533, 155, 210, 305, 547, 300, 109, 184, 115, 534, 167, 225, 537, 326, 306, 772, 157, 656, 329, 110, 117, 212, 171, 330, 226, 549, 776, 538, 387, 308, 216, 416, 271, 279, 158, 337, 550, 672, 118, 332, 579, 540, 389, 173, 121, 553, 199, 784, 179, 228, 338, 390, 122, 554, 448, 312, 581, 393, 283, 704, 174, 394, 181, 340, 203, 353, 561, 527, 582, 556, 63, 295, 285, 232, 124, 286, 562, 205, 182, 643, 585, 299, 354, 211, 401, 185, 396, 344, 586, 645, 593, 535, 240, 206, 95, 327, 564, 800, 402, 356, 307, 301, 417, 213, 186, 539, 404, 227, 594, 568, 771, 418, 649, 302, 832, 551, 111, 896, 360, 588, 609, 331, 214,

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309, 188, 449, 217, 646, 408, 229, 541, 159, 420, 596, 650, 773, 310, 333, 119, 657, 658, 610, 368, 339, 391, 313, 218, 334, 542, 230, 233, 774, 612, 175, 123, 652, 600, 450, 583, 341, 220, 555, 314, 557, 424, 395, 777, 673, 355, 287, 183, 234, 125, 616, 342, 563, 778, 660, 558, 452, 674, 397, 785, 432, 316, 345, 241, 207, 403, 357, 187, 587, 565, 664, 624, 780, 236, 126, 242, 398, 705, 346, 456, 358, 405, 303, 569, 189, 595, 215, 566, 676, 361, 706, 589, 244, 786, 647, 348, 419, 406, 464, 801, 590, 362, 570, 409, 680, 597, 788, 572, 219, 311, 708, 598, 601, 651, 421, 792, 802, 611, 602, 369, 190, 688, 653, 248, 231, 410, 364, 654, 659, 335, 480, 315, 221, 613, 422, 370, 425, 235, 451, 543, 614, 412, 343, 222, 775, 317, 372, 426, 453, 237, 559, 833, 804, 712, 834, 661, 808, 779, 617, 604, 433, 720, 816, 836, 347, 897, 243, 662, 454, 318, 675, 618, 898, 781, 376, 428, 665, 736, 567, 840, 625, 238, 359, 457, 399, 787, 677, 434, 349, 458, 678, 245, 666, 363, 591, 127, 620, 407, 782, 436, 465, 626, 571, 246, 681, 350, 707, 460, 599, 668, 789, 249, 411, 682, 573, 365, 803, 790, 709, 440, 466, 793, 574, 371, 423, 689, 603, 366, 628, 250, 413, 468, 655, 481, 900, 805, 191, 373, 615, 684, 427, 710, 794, 605, 414, 252, 713, 374, 848, 690, 632, 806, 482, 429, 904, 809, 455, 223, 663, 835, 692, 619, 472, 714, 796, 721, 837, 716, 864, 810, 606, 912, 722, 696, 377, 817, 435, 484, 621, 812, 319, 430, 838, 667, 239, 378, 459, 437, 622, 627, 488, 380, 818, 461, 496, 669, 679, 724, 841, 629, 351, 467, 438, 737, 247, 462, 441, 442, 469, 251, 683, 842, 738, 899, 670, 783, 849, 820, 728, 928, 791, 367, 901, 630, 685, 844, 633, 711, 253, 691, 824, 902, 686, 740, 850, 375, 444, 470, 483, 905, 415, 485, 795, 473, 634, 744, 852, 960, 865, 693, 797, 906, 715, 807, 474, 636, 694, 254, 717, 575, 811, 697, 866, 798, 379, 431, 913, 607, 489, 723, 486, 908, 718, 813, 476, 856, 839, 725, 698, 914, 752, 868, 819, 814, 439, 929, 490, 623, 671, 739, 916, 463, 843, 381, 497, 930, 821, 726, 961, 872, 492, 631, 729, 700, 443, 741, 845, 920, 382, 822, 851, 730, 498, 880, 742, 445, 471, 635, 932, 687, 903, 825, 500, 846, 745, 826, 732, 446, 962, 936, 475, 853, 867, 637, 907, 487, 695, 746, 828, 753, 854, 857, 504, 799, 909, 719, 638, 915, 477, 255, 964, 699, 748, 869, 944, 491, 754, 910, 858, 917, 478, 968, 870, 815, 383, 727, 493, 873, 701, 931, 756, 860, 499, 731, 823, 702, 918, 921, 874, 494, 976, 760, 933, 881, 501, 743, 922, 876, 847, 934, 827, 733, 882, 502, 447, 992, 937, 963, 747, 505, 855, 924, 734, 829, 938, 884, 506, 965, 749, 945, 966, 755, 859, 940, 830, 911, 871, 888, 479, 946, 750, 969, 861, 757, 970, 919, 875, 758, 508, 862, 639, 948, 977, 923, 972, 761, 877, 952, 495, 703, 935, 978, 883, 762, 503, 925, 878, 735, 993, 885, 939, 994, 980, 926, 764, 941, 967, 886, 831, 947, 507, 889, 984, 751, 942, 996, 971, 890, 509, 949, 973, 1000, 892, 950, 863, 759, 1008, 510, 979, 953, 763, 974, 954, 879, 981, 982, 927, 995, 765, 956, 887, 985, 997, 986, 943, 891, 998, 766, 511, 988, 1001, 951, 1002, 893, 975, 894, 1009, 955, 1004, 1010, 957, 983, 958, 987, 1012, 999, 1016, 767, 989, 1003, 990, 1005, 895, 1011, 1013, 959, 1006, 1014, 1017, 1018, 991, 1020, 1007, 1015, 1019, 1021, 1022, 1023]

[0120] Table Q16, having a sequence length of 1024:

Date Reçue/Date Received 2020-06-09

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel scquence number
0	0	128	518	256	94	384	331	512	364	640	904	768	819	896	966
1	1	129	54	257	204	385	214	513	654	641	809	769	814	897	755
2	2	130	83	258	298	386	309	514	659	642	455	770	439	898	859
3	4	131	57	259	400	387	188	515	335	643	223	771	929	899	940
4	8	132	521	260	352	388	449	516	480	644	663	772	490	900	830
5	16	133	112	261	608	389	217	517	315	645	835	773	623	901	911
6	32	134	135	262	325	390	646	518	221	646	692	774	671	902	871
7	3	135	78	263	533	391	408	519	613	647	619	775	739	903	888
8	5	136	289	264	155	392	229	520	422	648	472	776	916	904	479
9	64	137	194	265	210	393	541	521	370	649	714	777	463	905	946
10	9	138	85	266	305	394	159	522	425	650	796	778	843	906	750
11	6	139	276	267	547	395	420	523	235	651	721	779	381	907	969
12	17	140	522	268	300	396	596	524	451	652	837	780	497	908	861
13	10	141	58	269	109	397	650	525	543	653	716	781	930	909	757
14	18	142	168	270	184	398	773	526	614	654	864	782	821	910	970
15	128	143	139	271	115	399	310	527	412	655	810	783	726	911	919
16	12	144	99	272	534	400	333	528	343	656	606	784	961	912	875
17	33	145	86	273	167	401	119	529	222	657	912	785	872	913	758
18	65	146	60	274	225	402	657	530	775	658	722	786	492	914	508
19	20	147	280	275	537	403	658	531	317	659	696	787	631	915	862
20	256	148	89	276	326	404	610	532	372	660	377	788	729	916	639
21	34	149	290	277	306	405	368	533	426	661	817	789	700	917	948
22	24	150	529	278	772	406	339	534	453	662	435	790	443	918	977
23	36	151	524	279	157	407	391	535	237	663	484	791	741	919	923
24	7	152	196	280	656	408	313	536	559	664	621	792	845	920	972
25	129	153	141	281	329	409	218	537	833	665	812	793	920	921	761
26	66	154	101	282	110	410	334	538	804	666	319	794	382	922	877
27	512	155	147	283	117	411	542	539	712	667	430	795	822	923	952
28	11	156	176	284	212	412	230	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	233	541	661	669	667	797	730	925	703
30	68	158	530	286	330	414	774	542	808	670	239	798	498	926	935

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31	130	159	321	287	226	435	612	543	779	631	378	799	880	927	978
32	19	160	90	288	549	436	175	544	617	632	459	800	742	928	883
33	13	161	200	289	776	437	123	545	604	633	437	801	445	929	762
34	48	162	31	290	538	438	652	546	433	634	622	802	471	930	503
35	14	163	545	291	387	439	600	547	720	635	627	803	635	931	925
36	72	164	292	292	308	440	450	548	816	636	488	804	932	932	878
37	257	165	322	293	216	441	583	549	836	637	380	805	687	933	735
38	21	166	532	294	416	442	341	550	347	638	818	806	903	934	993
39	132	167	263	295	271	443	220	551	897	639	461	807	825	935	885
40	35	168	149	296	279	444	555	552	243	640	496	808	500	936	939
41	258	169	102	297	158	445	314	553	662	641	669	809	846	937	994
42	22	170	105	298	337	446	557	554	454	642	679	810	745	938	980
43	80	171	296	299	550	447	424	555	318	643	724	811	826	939	926
44	136	172	304	300	672	448	395	556	675	644	841	812	732	940	764
45	513	173	163	301	118	449	777	557	618	645	629	813	446	941	941
46	25	174	92	302	332	450	673	558	898	646	351	814	962	942	967
47	37	175	47	303	579	451	355	559	781	647	467	815	936	943	886
48	260	176	267	304	540	452	287	560	376	648	438	816	475	944	831
49	264	177	150	305	389	453	183	561	428	649	737	817	853	945	947
50	26	178	208	306	173	454	234	562	665	650	247	818	867	946	507
51	96	179	385	307	121	455	125	563	736	651	462	819	637	947	889
52	514	180	546	308	553	456	616	564	567	652	441	820	907	948	984
53	38	181	386	309	199	457	342	565	840	653	442	821	487	949	751
54	67	182	324	310	784	458	563	566	625	654	469	822	695	950	942
55	41	183	106	311	179	459	778	567	238	655	251	823	746	951	996
56	144	184	153	312	228	460	660	568	359	656	683	824	828	952	971
57	28	185	165	313	338	461	558	569	457	657	842	825	753	953	890
58	69	186	55	314	390	462	452	570	399	658	738	826	854	954	509
59	516	187	328	315	122	463	674	571	787	659	899	827	857	955	949
60	42	188	536	316	554	464	397	572	677	660	670	828	504	956	973
61	272	189	577	317	448	465	785	573	434	661	783	829	799	957	1000
62	49	190	548	318	312	466	432	574	349	662	849	830	909	958	892
63	70	191	113	319	581	467	316	575	458	663	820	831	719	959	950
64	520	192	154	320	393	468	345	576	678	664	728	832	638	960	863
65	160	193	79	321	283	469	241	577	245	665	928	833	915	961	759
66	44	194	269	322	704	470	207	578	666	666	791	834	477	962	1008
67	131	195	108	323	174	471	403	579	363	667	367	835	255	963	510

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68	73	196	578	324	394	452	357	580	591	708	901	836	964	964	979
69	288	197	224	325	181	453	187	581	127	709	630	837	699	965	953
70	528	198	166	326	340	454	587	582	620	710	685	838	748	966	763
71	192	199	519	327	203	455	565	583	407	711	844	839	869	967	974
72	50	200	552	328	353	456	664	584	782	712	633	840	944	968	954
73	74	201	195	329	561	457	624	585	436	713	711	841	491	969	879
74	544	202	270	330	527	458	780	586	465	714	253	842	754	970	981
75	52	203	641	331	582	459	236	587	626	715	691	843	910	971	982
76	15	204	523	332	556	460	126	588	571	716	824	844	858	972	927
77	133	205	275	333	63	461	242	589	246	717	902	845	917	973	995
78	320	206	580	334	295	462	398	590	681	718	686	846	478	974	765
79	81	207	291	335	285	463	705	591	350	719	740	847	968	975	956
80	23	208	169	336	232	464	346	592	707	720	850	848	870	976	887
81	134	209	59	337	124	465	456	593	460	721	375	849	815	977	985
82	384	210	560	338	286	466	358	594	599	722	444	850	383	978	997
83	76	211	114	339	562	467	405	595	668	723	470	851	727	979	986
84	56	212	277	340	205	468	303	596	789	724	483	852	493	980	943
85	259	213	156	341	182	469	569	597	249	725	905	853	873	981	891
86	82	214	87	342	643	470	189	598	411	726	415	854	701	982	998
87	137	215	197	343	585	471	595	599	682	727	485	855	931	983	766
88	27	216	116	344	299	472	215	600	573	728	795	856	756	984	511
89	97	217	170	345	354	473	566	601	365	729	473	857	860	985	988
90	39	218	61	346	211	474	676	602	803	730	634	858	499	986	1001
91	84	219	531	347	401	475	361	603	790	731	744	859	731	987	951
92	138	220	525	348	185	476	706	604	709	732	852	860	823	988	1002
93	145	221	642	349	396	477	589	605	440	733	960	861	702	989	893
94	261	222	281	350	344	478	244	606	466	734	865	862	918	990	975
95	29	223	278	351	586	479	786	607	793	735	693	863	921	991	894
96	43	224	526	352	645	480	647	608	574	736	797	864	874	992	1009
97	98	225	177	353	593	481	348	609	371	737	906	865	494	993	955
98	515	226	293	354	535	482	419	610	423	738	715	866	976	994	1004
99	88	227	388	355	240	483	406	611	689	739	807	867	760	995	1010
100	140	228	91	356	206	484	464	612	603	740	474	868	933	996	957
101	30	229	584	357	95	485	801	613	366	741	636	869	881	997	983
102	146	230	769	358	327	486	590	614	628	742	694	870	501	998	958
103	71	231	198	359	564	487	362	615	250	743	254	871	743	999	987
104	262	232	172	360	800	488	570	616	413	744	717	872	922	1000	1012

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105	265	233	120	361	402	489	409	617	468	745	575	873	876	1001	999
106	161	234	201	362	356	490	680	618	655	746	811	874	847	1002	1016
107	576	235	336	363	307	491	597	619	481	747	697	875	934	1003	767
108	45	236	62	364	301	492	788	620	900	748	866	876	827	1004	989
109	100	237	282	365	417	493	572	621	805	749	798	877	733	1005	1003
110	640	238	143	366	213	494	219	622	191	750	379	878	882	1006	990
111	51	239	103	367	186	495	311	623	373	751	431	879	502	1007	1005
112	148	240	178	368	539	496	708	624	615	752	913	880	447	1008	895
113	46	241	294	369	404	497	598	625	684	753	607	881	992	1009	1011
114	75	242	93	370	227	498	601	626	427	754	489	882	937	1010	1013
115	266	243	644	371	594	499	651	627	710	755	723	883	963	1011	959
116	273	244	202	372	568	500	421	628	794	756	486	884	747	1012	1006
117	517	245	592	373	771	501	792	629	605	757	908	885	505	1013	1014
118	104	246	323	374	418	502	802	630	414	758	718	886	855	1014	1017
119	162	247	392	375	649	503	611	631	252	759	813	887	924	1015	1018
120	53	248	297	376	302	504	602	632	713	760	476	888	734	1016	991
121	193	249	770	377	832	505	369	633	374	761	856	889	829	1017	1020
122	152	250	107	378	551	506	190	634	848	762	839	890	938	1018	1007
123	77	251	180	379	111	507	688	635	690	763	725	891	884	1019	1015
124	164	252	151	380	896	508	653	636	632	764	698	892	506	1020	1019
125	768	253	209	381	360	509	248	637	806	765	914	893	965	1021	1021
126	268	254	284	382	588	510	231	638	482	766	752	894	749	1022	1022
127	274	255	648	383	609	511	410	639	429	767	868	895	945	1023	1023

[0121] Sequence Q17, having a sequence length of 512:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 65, 20, 256, 34, 24, 36, 7, 129, 66, 11, 40, 68, 130, 19, 13, 48, 14, 72, 257, 21, 132, 35, 258, 22, 80, 136, 25, 37, 260, 264, 26, 96, 38, 67, 41, 144, 28, 69, 42, 272, 49, 70, 160, 44, 131, 73, 288, 192, 50, 74, 52, 15, 133, 320, 81, 23, 134, 384, 76, 56, 259, 82, 137, 27, 97, 39, 84, 138, 145, 261, 29, 43, 98, 88, 140, 30, 146, 71, 262, 265, 161, 45, 100, 51, 148, 46, 75, 266, 273, 104, 162, 53, 193, 152, 77, 164, 268, 274, 54, 83, 57, 112, 135, 78, 289, 194, 85, 276, 58, 168, 139, 99, 86, 60, 280, 89, 290, 196, 141, 101, 147, 176, 142, 321, 90, 200, 31, 292, 322, 263, 149, 102, 105, 296, 304, 163, 92, 47, 267, 150, 208, 385, 386, 324, 106, 153, 165, 55, 328, 113, 154, 79, 269, 108, 224, 166, 195, 270, 275, 291, 169, 59, 114, 277, 156, 87, 197, 116, 170, 61, 281, 278, 177, 293, 388, 91, 198, 172, 120, 201, 336, 62, 282, 143, 103, 178, 294, 93, 202, 323, 392, 297, 107, 180, 151, 209, 284, 94, 204, 298, 400, 352, 325, 155, 210, 305, 300, 109, 184, 115, 167, 225, 326, 306, 157, 329, 110, 117, 212, 171, 330, 226, 387, 308, 216, 416, 271, 279,

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158, 337, 118, 332, 389, 173, 121, 199, 179, 228, 338, 390, 122, 448, 312, 393, 283, 174, 394, 181, 340, 203, 353, 63, 295, 285, 232, 124, 286, 205, 182, 299, 354, 211, 401, 185, 396, 344, 240, 206, 95, 327, 402, 356, 307, 301, 417, 213, 186, 404, 227, 418, 302, 111, 360, 331, 214, 309, 188, 449, 217, 408, 229, 159, 420, 310, 333, 119, 368, 339, 391, 313, 218, 334, 230, 233, 175, 123, 450, 341, 220, 314, 424, 395, 355, 287, 183, 234, 125, 342, 452, 397, 432, 316, 345, 241, 207, 403, 357, 187, 236, 126, 242, 398, 346, 456, 358, 405, 303, 189, 215, 361, 244, 348, 419, 406, 464, 362, 409, 219, 311, 421, 369, 190, 248, 231, 410, 364, 335, 480, 315, 221, 422, 370, 425, 235, 451, 412, 343, 222, 317, 372, 426, 453, 237, 433, 347, 243, 454, 318, 376, 428, 238, 359, 457, 399, 434, 349, 458, 245, 363, 127, 407, 436, 465, 246, 350, 460, 249, 411, 365, 440, 466, 371, 423, 366, 250, 413, 468, 481, 191, 373, 427, 414, 252, 374, 482, 429, 455, 223, 472, 377, 435, 484, 319, 430, 239, 378, 459, 437, 488, 380, 461, 496, 351, 467, 438, 247, 462, 441, 442, 469, 251, 367, 253, 375, 444, 470, 483, 415, 485, 473, 474, 254, 379, 431, 489, 486, 476, 439, 490, 463, 381, 497, 492, 443, 382, 498, 445, 471, 500, 446, 475, 487, 504, 477, 255, 491, 478, 383, 493, 499, 494, 501, 502, 447, 505, 506, 479, 508, 495, 503, 507, 509, 510, 511]

[0122] Table Q17, having a sequence length of 512:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	64	288	128	139	192	388	256	338	320	230	384	343	448	461
1	1	65	192	129	99	193	91	257	390	321	233	385	222	449	496
2	2	66	50	130	86	194	198	258	122	322	175	386	317	450	351
3	4	67	74	131	60	195	172	259	448	323	123	387	372	451	467
4	8	68	52	132	280	196	120	260	312	324	450	388	426	452	438
5	16	69	15	133	89	197	201	261	393	325	341	389	453	453	247
6	32	70	133	134	290	198	336	262	283	326	220	390	237	454	462
7	3	71	320	135	196	199	62	263	174	327	314	391	433	455	441
8	5	72	81	136	141	200	282	264	394	328	424	392	347	456	442
9	64	73	23	137	101	201	143	265	181	329	395	393	243	457	469
10	9	74	134	138	147	202	103	266	340	330	355	394	454	458	251
11	6	75	384	139	176	203	178	267	203	331	287	395	318	459	367
12	17	76	76	140	142	204	294	268	353	332	183	396	376	460	253
13	10	77	56	141	321	205	93	269	63	333	234	397	428	461	375
14	18	78	259	142	90	206	202	270	295	334	125	398	238	462	444

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15	128	79	82	143	200	207	323	271	285	335	342	399	359	463	470
16	12	80	137	144	31	208	392	272	232	336	452	400	457	464	483
17	33	81	27	145	292	209	297	273	124	337	397	401	399	465	415
18	65	82	97	146	322	210	107	274	286	338	432	402	434	466	485
19	20	83	39	147	263	211	180	275	205	339	316	403	349	467	473
20	256	84	84	148	149	212	151	276	182	340	345	404	458	468	474
21	34	85	138	149	102	213	209	277	299	341	241	405	245	469	254
22	24	86	145	150	105	214	284	278	354	342	207	406	363	470	379
23	36	87	261	151	296	215	94	279	211	343	403	407	127	471	431
24	7	88	29	152	304	216	204	280	401	344	357	408	407	472	489
25	129	89	43	153	163	217	298	281	185	345	187	409	436	473	486
26	66	90	98	154	92	218	400	282	396	346	236	410	465	474	476
27	11	91	88	155	47	219	352	283	344	347	126	411	246	475	439
28	40	92	140	156	267	220	325	284	240	348	242	412	350	476	490
29	68	93	30	157	150	221	155	285	206	349	398	413	460	477	463
30	130	94	146	158	208	222	210	286	95	350	346	414	249	478	381
31	19	95	71	159	385	223	305	287	327	351	456	415	411	479	497
32	13	96	262	160	386	224	300	288	402	352	358	416	365	480	492
33	48	97	265	161	324	225	109	289	356	353	405	417	440	481	443
34	14	98	161	162	106	226	184	290	307	354	303	418	466	482	382
35	72	99	45	163	153	227	115	291	301	355	189	419	371	483	498
36	257	100	100	164	165	228	167	292	417	356	215	420	423	484	445
37	21	101	51	165	55	229	225	293	213	357	361	421	366	485	471
38	132	102	148	166	328	230	326	294	186	358	244	422	250	486	500
39	35	103	46	167	113	231	306	295	404	359	348	423	413	487	446
40	258	104	75	168	154	232	157	296	227	360	419	424	468	488	475
41	22	105	266	169	79	233	329	297	418	361	406	425	481	489	487
42	80	106	273	170	269	234	110	298	302	362	464	426	191	490	504
43	136	107	104	171	108	235	117	299	111	363	362	427	373	491	477
44	25	108	162	172	224	236	212	300	360	364	409	428	427	492	255
45	37	109	53	173	166	237	171	301	331	365	219	429	414	493	491
46	260	110	193	174	195	238	330	302	214	366	311	430	252	494	478
47	264	111	152	175	270	239	226	303	309	367	421	431	374	495	383
48	26	112	77	176	275	240	387	304	188	368	369	432	482	496	493
49	96	113	164	177	291	241	308	305	449	369	190	433	429	497	499
50	38	114	268	178	169	242	216	306	217	370	248	434	455	498	494
51	67	115	274	179	59	243	416	307	408	371	231	435	223	499	501

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52	41	116	54	180	114	244	271	308	229	372	410	436	472	500	502
53	144	117	83	181	277	245	279	309	159	338	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	344	335	438	435	502	505
55	69	119	112	183	87	247	337	311	310	375	480	439	484	503	506
56	42	120	135	184	197	248	118	312	333	336	315	440	319	504	479
57	272	121	78	185	116	249	332	313	119	377	221	441	430	505	508
58	49	122	289	186	170	250	389	314	368	328	422	442	239	506	495
59	70	123	194	187	61	251	173	315	339	379	370	443	378	507	503
60	160	124	85	188	281	252	121	316	391	380	425	444	459	508	507
61	44	125	276	189	278	253	199	317	313	381	235	445	437	509	509
62	131	126	58	190	177	254	179	318	218	382	451	446	488	510	510
63	73	127	168	191	293	255	228	319	334	383	412	447	380	511	511

[0123] Sequence Q18, having a sequence length of 256:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 128, 12, 33, 65, 20, 34, 24, 36, 7, 129, 66, 11, 40, 68, 130, 19, 13, 48, 14, 72, 21, 132, 35, 22, 80, 136, 25, 37, 26, 96, 38, 67, 41, 144, 28, 69, 42, 49, 70, 160, 44, 131, 73, 192, 50, 74, 52, 15, 133, 81, 23, 134, 76, 56, 82, 137, 27, 97, 39, 84, 138, 145, 29, 43, 98, 88, 140, 30, 146, 71, 161, 45, 100, 51, 148, 46, 75, 104, 162, 53, 193, 152, 77, 164, 54, 83, 57, 112, 135, 78, 194, 85, 58, 168, 139, 99, 86, 60, 89, 196, 141, 101, 147, 176, 142, 90, 200, 31, 149, 102, 105, 163, 92, 47, 150, 208, 106, 153, 165, 55, 113, 154, 79, 108, 224, 166, 195, 169, 59, 114, 156, 87, 197, 116, 170, 61, 177, 91, 198, 172, 120, 201, 62, 143, 103, 178, 93, 202, 107, 180, 151, 209, 94, 204, 155, 210, 109, 184, 115, 167, 225, 157, 110, 117, 212, 171, 226, 216, 158, 118, 173, 121, 199, 179, 228, 122, 174, 181, 203, 63, 232, 124, 205, 182, 211, 185, 240, 206, 95, 213, 186, 227, 111, 214, 188, 217, 229, 159, 119, 218, 230, 233, 175, 123, 220, 183, 234, 125, 241, 207, 187, 236, 126, 242, 189, 215, 244, 219, 190, 248, 231, 221, 235, 222, 237, 243, 238, 245, 127, 246, 249, 250, 191, 252, 223, 239, 247, 251, 253, 254, 255]

[0124] Table Q18, having a sequence length of 256:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	32	48	64	81	96	152	128	47	160	178	192	181	224	207
1	1	33	14	65	23	97	77	129	150	161	93	193	203	225	187
2	2	34	72	66	134	98	164	130	208	162	202	194	63	226	236

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3	4	35	21	67	76	99	54	131	106	163	107	195	232	227	126
4	8	36	132	68	56	100	83	132	153	164	180	196	124	228	242
5	16	37	35	69	82	101	57	133	165	165	151	197	205	229	189
6	32	38	22	70	137	102	112	134	55	166	209	198	182	230	215
7	3	39	80	71	27	103	135	135	113	167	94	199	211	231	244
8	5	40	136	72	97	104	78	136	154	168	204	200	185	232	219
9	64	41	25	73	39	105	194	137	79	169	155	201	240	233	190
10	9	42	37	74	84	106	85	138	108	170	210	202	206	234	248
11	6	43	26	75	138	107	58	139	224	171	109	203	95	235	231
12	17	44	96	76	145	108	168	140	166	172	184	204	213	236	221
13	10	45	38	77	29	109	139	141	195	173	115	205	186	237	235
14	18	46	67	78	43	110	99	142	169	174	167	206	227	238	222
15	128	47	41	79	98	111	86	143	59	175	225	207	111	239	237
16	12	48	144	80	88	112	60	144	114	176	157	208	214	240	243
17	33	49	28	81	140	113	89	145	156	177	110	209	188	241	238
18	65	50	69	82	30	114	196	146	87	178	117	210	217	242	245
19	20	51	42	83	146	115	141	147	197	179	212	211	229	243	127
20	34	52	49	84	71	116	101	148	116	180	171	212	159	244	246
21	24	53	70	85	161	117	147	149	170	181	226	213	119	245	249
22	36	54	160	86	45	118	176	150	61	182	216	214	218	246	250
23	7	55	44	87	100	119	142	151	177	183	158	215	230	247	191
24	129	56	131	88	51	120	90	152	91	184	118	216	233	248	252
25	66	57	73	89	148	121	200	153	198	185	173	217	175	249	223
26	11	58	192	90	46	122	31	154	172	186	121	218	123	250	239
27	40	59	50	91	75	123	149	155	120	187	199	219	220	251	247
28	68	60	74	92	104	124	102	156	201	188	179	220	183	252	251
29	130	61	52	93	162	125	105	157	62	189	228	221	234	253	253
30	19	62	15	94	53	126	163	158	143	190	122	222	125	254	254
31	13	63	133	95	193	127	92	159	103	191	174	223	241	255	255

[0125] Sequence Q19, having a sequence length of 128:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 9, 6, 17, 10, 18, 12, 33, 65, 20, 34, 24, 36, 7, 66, 11, 40, 68, 19, 13, 48, 14, 72, 21, 35, 22, 80, 25, 37, 26, 96, 38, 67, 41, 28, 69, 42, 49, 70, 44, 73, 50, 74, 52, 15, 81, 23, 76, 56, 82, 27, 97, 39, 84, 29, 43, 98, 88, 30, 71, 45, 100, 51, 46, 75, 104, 53, 77, 54, 83, 57, 112, 78, 85, 58, 99, 86, 60, 89, 101, 90, 31, 102, 105, 92, 47, 106, 55, 113, 79, 108, 59, 114, 87, 116, 61, 91, 120, 62, 103, 93, 107, 94, 109, 115, 110, 117, 118, 121, 122, 63, 124, 95, 111, 119, 123, 125, 126, 127]

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[0126] Table Q19, having a sequence length of 128:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	16	33	32	21	48	44	64	43	80	112	96	55	112	109
1	1	17	65	33	35	49	73	65	98	81	78	97	113	113	115
2	2	18	20	34	22	50	50	66	88	82	85	98	79	114	110
3	4	19	34	35	80	51	74	67	30	83	58	99	108	115	117
4	8	20	24	36	25	52	52	68	71	84	99	100	59	116	118
5	16	21	36	37	37	53	15	69	45	85	86	101	114	117	121
6	32	22	7	38	26	54	81	70	100	86	60	102	87	118	122
7	3	23	66	39	96	55	23	71	51	87	89	103	116	119	63
8	5	24	11	40	38	56	76	72	46	88	101	104	61	120	124
9	64	25	40	41	67	57	56	73	75	89	90	105	91	121	95
10	9	26	68	42	41	58	82	74	104	90	31	106	120	122	111
11	6	27	19	43	28	59	27	75	53	91	102	107	62	123	119
12	17	28	13	44	69	60	97	76	77	92	105	108	103	124	123
13	10	29	48	45	42	61	39	77	54	93	92	109	93	125	125
14	18	30	14	46	49	62	84	78	83	94	47	110	107	126	126
15	12	31	72	47	70	63	29	79	57	95	106	111	94	127	127

[0127] Sequence Q20, having a sequence length of 64:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 9, 6, 17, 10, 18, 12, 33, 20, 34, 24, 36, 7, 11, 40, 19, 13, 48, 14, 21, 35, 22, 25, 37, 26, 38, 41, 28, 42, 49, 44, 50, 52, 15, 23, 56, 27, 39, 29, 43, 30, 45, 51, 46, 53, 54, 57, 58, 60, 31, 47, 55, 59, 61, 62, 63]

[0128] Table Q20, having a sequence length of 64:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	8	5	16	20	24	13	32	26	40	52	48	30	56	60
1	1	9	9	17	34	25	48	33	38	41	15	49	45	57	31
2	2	10	6	18	24	26	14	34	41	42	23	50	51	58	47

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3	4	11	17	19	36	22	21	35	28	43	56	51	46	59	55
4	8	12	10	20	7	23	35	36	42	44	27	52	53	60	59
5	16	13	18	21	11	29	22	37	49	45	39	53	54	61	61
6	32	14	12	22	40	30	25	38	44	46	29	54	57	62	62
7	3	15	33	23	19	31	37	39	50	47	43	55	58	63	63

[0129] Sequence Z16, having a sequence length of 1024:

[0, 1, 2, 7, 3, 8, 11, 24, 4, 10, 13, 28, 16, 33, 35, 76, 5, 12, 14, 32, 19, 38, 42, 80, 22, 46, 50, 88, 57, 95, 101, 162, 6, 17, 21, 40, 23, 47, 53, 90, 29, 55, 60, 96, 66, 108, 113, 175, 34, 62, 72, 111, 75, 120, 129, 186, 84, 131, 141, 209, 146, 218, 236, 333, 9, 18, 26, 54, 30, 58, 63, 103, 36, 68, 73, 114, 83, 123, 135, 193, 43, 79, 86, 130, 91, 138, 145, 214, 99, 148, 160, 228, 174, 242, 256, 357, 51, 89, 97, 144, 109, 154, 169, 239, 118, 170, 183, 250, 195, 269, 282, 379, 133, 191, 211, 271, 216, 283, 301, 401, 233, 307, 315, 417, 337, 435, 460, 581, 15, 25, 31, 67, 39, 77, 81, 134, 44, 87, 92, 143, 100, 153, 157, 238, 56, 93, 102, 155, 112, 168, 177, 252, 122, 184, 192, 264, 213, 279, 297, 394, 65, 106, 119, 173, 124, 185, 198, 273, 142, 208, 217, 285, 232, 306, 323, 416, 156, 225, 240, 311, 251, 325, 341, 433, 270, 348, 367, 453, 387, 470, 506, 622, 71, 121, 137, 201, 152, 215, 231, 309, 161, 234, 244, 327, 257, 340, 356, 450, 178, 253, 265, 346, 284, 366, 385, 472, 293, 389, 409, 494, 423, 518, 529, 643, 197, 274, 287, 370, 312, 392, 412, 510, 336, 413, 434, 523, 459, 535, 567, 670, 355, 449, 461, 552, 478, 577, 589, 690, 509, 597, 615, 695, 631, 714, 743, 835, 20, 37, 41, 85, 48, 94, 104, 167, 49, 105, 115, 176, 126, 194, 202, 295, 61, 116, 127, 205, 139, 212, 223, 296, 147, 222, 237, 321, 254, 335, 338, 432, 69, 136, 149, 207, 164, 226, 241, 334, 171, 248, 258, 344, 268, 364, 376, 468, 172, 266, 277, 363, 292, 386, 399, 495, 318, 408, 425, 517, 447, 531, 555, 666, 78, 159, 165, 246, 182, 262, 276, 358, 187, 281, 286, 384, 302, 400, 410, 515, 235, 298, 313, 406, 326, 422, 437, 528, 350, 448, 464, 550, 481, 574, 591, 686, 260, 328, 345, 431, 362, 452, 466, 568, 381, 475, 487, 579, 512, 601, 613, 707, 405, 505, 521, 609, 532, 623, 633, 721, 560, 660, 671, 750, 677, 779, 794, 850, 82, 179, 181, 291, 227, 305, 314, 407, 247, 320, 324, 428, 349, 444, 462, 570, 259, 347, 361, 451, 369, 467, 483, 583, 391, 489, 511, 598, 527, 616, 630, 726, 294, 365, 374, 482, 395, 500, 520, 610, 427, 522, 533, 626, 561, 639, 667, 751, 446, 546, 573, 662, 585, 673, 688, 770, 605, 692, 693, 790, 722, 801, 813, 880, 317, 388, 420, 524, 442, 534, 554, 642, 465, 569, 575, 672, 593, 679, 691, 777, 484, 586, 606, 687, 617, 694, 723, 802, 648, 729, 740, 816, 760, 834, 846, 904, 516, 619, 638, 724, 663, 727, 756, 821, 676, 754, 772, 841, 786, 852, 865, 924, 680, 780, 798, 858, 808, 870, 879, 930, 828, 885, 892, 946, 914, 954, 963, 984, 27, 45, 52, 98, 59, 117, 128, 199, 64, 132, 140, 204, 151, 220, 224, 330, 70, 150, 158, 219, 166, 263, 272, 354, 188, 275, 290, 368, 304, 393, 411, 525, 74, 163, 180, 267, 190, 288, 299, 378, 200, 308, 316, 424, 332, 426, 441, 536, 210, 329, 339, 438, 359, 455, 473,

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564, 372, 469, 488, 588, 493, 600, 608, 745, 107, 189, 196, 303, 206, 319, 331, 421, 229, 343, 351, 454, 382, 477, 486, 580, 245, 353, 371, 471, 396, 491, 497, 594, 419, 498, 504, 612, 545, 629, 656, 753, 261, 383, 404, 503, 415, 519, 526, 624, 436, 544, 557, 647, 582, 664, 674, 773, 457, 566, 587, 675, 614, 685, 709, 787, 636, 712, 730, 803, 741, 819, 832, 916, 110, 203, 221, 342, 243, 352, 390, 480, 255, 375, 397, 499, 418, 508, 513, 618, 280, 402, 403, 514, 440, 541, 553, 644, 456, 562, 578, 669, 595, 681, 700, 774, 300, 430, 443, 556, 474, 572, 576, 682, 490, 590, 599, 696, 625, 710, 718, 805, 507, 611, 635, 715, 646, 735, 742, 822, 659, 747, 764, 837, 789, 854, 861, 925, 322, 463, 476, 592, 496, 604, 627, 713, 539, 632, 649, 738, 653, 744, 758, 831, 547, 651, 658, 755, 683, 763, 783, 851, 704, 788, 797, 859, 812, 877, 888, 933, 563, 689, 698, 775, 719, 791, 800, 871, 731, 810, 823, 884, 838, 894, 906, 949, 766, 825, 842, 897, 856, 909, 913, 961, 867, 921, 929, 966, 940, 974, 983, 1003, 125, 230, 249, 373, 278, 398, 414, 530, 289, 429, 439, 543, 458, 559, 584, 701, 310, 445, 479, 571, 492, 596, 603, 706, 501, 607, 628, 728, 650, 736, 749, 829, 360, 485, 502, 602, 538, 621, 637, 739, 542, 641, 655, 746, 665, 759, 769, 849, 548, 661, 678, 768, 703, 782, 795, 860, 716, 807, 811, 876, 824, 889, 900, 944, 377, 537, 540, 645, 549, 652, 668, 762, 565, 684, 697, 778, 711, 792, 809, 874, 634, 702, 720, 796, 732, 817, 826, 886, 761, 827, 844, 898, 857, 908, 915, 960, 654, 734, 748, 818, 767, 839, 848, 902, 785, 853, 864, 912, 873, 922, 932, 969, 799, 869, 878, 928, 891, 935, 943, 976, 903, 947, 953, 981, 958, 989, 991, 1008, 380, 551, 558, 699, 620, 708, 717, 806, 640, 725, 737, 820, 757, 830, 843, 901, 657, 752, 765, 833, 776, 845, 862, 911, 793, 863, 872, 919, 887, 931, 939, 972, 705, 771, 781, 855, 804, 868, 875, 926, 815, 882, 890, 936, 899, 941, 950, 980, 840, 895, 905, 945, 917, 955, 959, 987, 923, 965, 968, 993, 975, 996, 998, 1011, 733, 784, 814, 883, 836, 893, 896, 942, 847, 907, 910, 952, 920, 956, 967, 990, 866, 918, 927, 964, 938, 970, 971, 997, 948, 977, 979, 999, 985, 1004, 1006, 1016, 881, 934, 937, 973, 951, 978, 982, 1001, 957, 986, 988, 1005, 994, 1007, 1012, 1018, 962, 992, 995, 1009, 1000, 1010, 1013, 1019, 1002, 1014, 1015, 1020, 1017, 1021, 1022, 1023]

[0130] Table Z16, having a sequence length of 1024:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	128	15	256	20	384	82	512	27	640	110	768	125	896	380
1	1	129	25	257	37	385	179	513	45	641	203	769	230	897	551
2	2	130	31	258	41	386	181	514	52	642	221	770	249	898	558
3	7	131	67	259	85	387	291	515	98	643	342	771	373	899	699

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4	3	132	39	260	48	388	227	516	59	644	243	772	278	900	620
5	8	133	77	261	94	389	305	517	117	645	352	773	398	901	708
6	11	134	81	262	104	390	314	518	128	646	390	774	414	902	717
7	24	135	134	263	167	391	407	519	199	647	480	775	530	903	806
8	4	136	44	264	49	392	247	520	64	648	255	776	289	904	640
9	10	137	87	265	105	393	320	521	132	649	375	777	429	905	725
10	13	138	92	266	115	394	324	522	140	650	397	778	439	906	737
11	28	139	143	267	176	395	428	523	204	651	499	779	543	907	820
12	16	140	100	268	126	396	349	524	151	652	418	780	458	908	757
13	33	141	153	269	194	397	444	525	220	653	508	781	559	909	830
14	35	142	157	270	202	398	462	526	224	654	513	782	584	910	843
15	76	143	238	271	295	399	570	527	330	655	618	783	701	911	901
16	5	144	56	272	61	400	259	528	70	656	280	784	310	912	657
17	12	145	93	273	116	401	347	529	150	657	402	785	445	913	752
18	14	146	102	274	127	402	361	530	158	658	403	786	479	914	765
19	32	147	155	275	205	403	451	531	219	659	514	787	571	915	833
20	19	148	112	276	139	404	369	532	166	660	440	788	492	916	776
21	38	149	168	277	212	405	467	533	263	661	541	789	596	917	845
22	42	150	177	278	223	406	483	534	272	662	553	790	603	918	862
23	80	151	252	279	296	407	583	535	354	663	644	791	706	919	911
24	22	152	122	280	147	408	391	536	188	664	456	792	501	920	793
25	46	153	184	281	222	409	489	537	275	665	562	793	607	921	863
26	50	154	192	282	237	410	511	538	290	666	578	794	628	922	872
27	88	155	264	283	321	411	598	539	368	667	669	795	728	923	919
28	57	156	213	284	254	412	527	540	304	668	595	796	650	924	887
29	95	157	279	285	335	413	616	541	393	669	681	797	736	925	931
30	101	158	297	286	338	414	630	542	411	670	700	798	749	926	939
31	162	159	394	287	432	415	726	543	525	671	774	799	829	927	972
32	6	160	65	288	69	416	294	544	74	672	300	800	360	928	705
33	17	161	106	289	136	417	365	545	163	673	430	801	485	929	771
34	21	162	119	290	149	418	374	546	180	674	443	802	502	930	781
35	40	163	173	291	207	419	482	547	267	675	556	803	602	931	855
36	23	164	124	292	164	420	395	548	190	676	474	804	538	932	804
37	47	165	185	293	226	421	500	549	288	677	572	805	621	933	868
38	53	166	198	294	241	422	520	550	299	678	576	806	637	934	875
39	90	167	273	295	334	423	610	551	378	679	682	807	739	935	926
40	29	168	142	296	171	424	427	552	200	680	490	808	542	936	815

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41	55	169	208	297	248	425	522	553	308	681	590	809	641	937	882
42	60	170	217	298	258	426	533	554	316	682	599	810	655	938	890
43	96	171	285	299	344	427	626	555	424	683	696	811	746	939	936
44	66	172	232	300	268	428	561	556	332	684	625	812	665	940	899
45	108	173	306	301	364	429	639	557	426	685	710	813	759	941	941
46	113	174	323	302	376	430	667	558	441	686	718	814	769	942	950
47	175	175	416	303	468	431	751	559	536	687	805	815	849	943	980
48	34	176	156	304	172	432	446	560	210	688	507	816	548	944	840
49	62	177	225	305	266	433	546	561	329	689	611	817	661	945	895
50	72	178	240	306	277	434	573	562	339	690	635	818	678	946	905
51	111	179	311	307	363	435	662	563	438	691	715	819	768	947	945
52	75	180	251	308	292	436	585	564	359	692	646	820	703	948	917
53	120	181	325	309	386	437	673	565	455	693	735	821	782	949	955
54	129	182	341	310	399	438	688	566	473	694	742	822	795	950	959
55	186	183	433	311	495	439	770	567	564	695	822	823	860	951	987
56	84	184	270	312	318	440	605	568	372	696	659	824	716	952	923
57	131	185	348	313	408	441	692	569	469	697	747	825	807	953	965
58	141	186	367	314	425	442	693	570	488	698	764	826	811	954	968
59	209	187	453	315	517	443	790	571	588	699	837	827	876	955	993
60	146	188	387	316	447	444	722	572	493	700	789	828	824	956	975
61	218	189	470	317	531	445	801	573	600	701	854	829	889	957	996
62	236	190	506	318	555	446	813	574	608	702	861	830	900	958	998
63	333	191	622	319	666	447	880	575	745	703	925	831	944	959	1011
64	9	192	71	320	78	448	317	576	107	704	322	832	377	960	733
65	18	193	121	321	159	449	388	577	189	705	463	833	537	961	784
66	26	194	137	322	165	450	420	578	196	706	476	834	540	962	814
67	54	195	201	323	246	451	524	579	303	707	592	835	645	963	883
68	30	196	152	324	182	452	442	580	206	708	496	836	549	964	836
69	58	197	215	325	262	453	534	581	319	709	604	837	652	965	893
70	63	198	231	326	276	454	554	582	331	710	627	838	668	966	896
71	103	199	309	327	358	455	642	583	421	711	713	839	762	967	942
72	36	200	161	328	187	456	465	584	229	712	539	840	565	968	847
73	68	201	234	329	281	457	569	585	343	713	632	841	684	969	907
74	73	202	244	330	286	458	575	586	351	714	649	842	697	970	910
75	114	203	327	331	384	459	672	587	454	715	738	843	778	971	952
76	83	204	257	332	302	460	593	588	382	716	653	844	711	972	920
77	123	205	340	333	400	461	679	589	477	717	744	845	792	973	956

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78	135	206	356	334	410	462	691	590	486	718	758	846	809	974	967
79	193	207	450	335	515	463	777	591	580	719	831	847	874	975	990
80	43	208	178	336	235	464	484	592	245	720	547	848	634	976	866
81	79	209	253	337	298	465	586	593	353	721	651	849	702	977	918
82	86	210	265	338	313	466	606	594	371	722	658	850	720	978	927
83	130	211	346	339	406	467	687	595	471	723	755	851	796	979	964
84	91	212	284	340	326	468	617	596	396	724	683	852	732	980	938
85	138	213	366	341	422	469	694	597	491	725	763	853	817	981	970
86	145	214	385	342	437	470	723	598	497	726	783	854	826	982	971
87	214	215	472	343	528	471	802	599	594	727	851	855	886	983	997
88	99	216	293	344	350	472	648	600	419	728	704	856	761	984	948
89	148	217	389	345	448	473	729	601	498	729	788	857	827	985	977
90	160	218	409	346	464	474	740	602	504	730	797	858	844	986	979
91	228	219	494	347	550	475	816	603	612	731	859	859	898	987	999
92	174	220	423	348	481	476	760	604	545	732	812	860	857	988	985
93	242	221	518	349	574	477	834	605	629	733	877	861	908	989	1004
94	256	222	529	350	591	478	846	606	656	734	888	862	915	990	1006
95	357	223	643	351	686	479	904	607	753	735	933	863	960	991	1016
96	51	224	197	352	260	480	516	608	261	736	563	864	654	992	881
97	89	225	274	353	328	481	619	609	383	737	689	865	734	993	934
98	97	226	287	354	345	482	638	610	404	738	698	866	748	994	937
99	144	227	370	355	431	483	724	611	503	739	775	867	818	995	973
100	109	228	312	356	362	484	663	612	415	740	719	868	767	996	951
101	154	229	392	357	452	485	727	613	519	741	791	869	839	997	978
102	169	230	412	358	466	486	756	614	526	742	800	870	848	998	982
103	239	231	510	359	568	487	821	615	624	743	871	871	902	999	1001
104	118	232	336	360	381	488	676	616	436	744	731	872	785	1000	957
105	170	233	413	361	475	489	754	617	544	745	810	873	853	1001	986
106	183	234	434	362	487	490	772	618	557	746	823	874	864	1002	988
107	250	235	523	363	579	491	841	619	647	747	884	875	912	1003	1005
108	195	236	459	364	512	492	786	620	582	748	838	876	873	1004	994
109	269	237	535	365	601	493	852	621	664	749	894	877	922	1005	1007
110	282	238	567	366	613	494	865	622	674	750	906	878	932	1006	1012
111	379	239	670	367	707	495	924	623	773	751	949	879	969	1007	1018
112	133	240	355	368	405	496	680	624	457	752	766	880	799	1008	962
113	191	241	449	369	505	497	780	625	566	753	825	881	869	1009	992
114	211	242	461	370	521	498	798	626	587	754	842	882	878	1010	995

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115	271	243	552	371	609	499	858	627	675	756	897	883	928	1011	1009
116	216	244	478	372	532	500	808	628	614	756	856	884	891	1012	1000
117	283	245	577	373	623	501	870	629	685	757	909	885	935	1013	1010
118	301	246	589	374	633	502	879	630	709	758	913	886	943	1014	1013
119	401	247	690	375	721	503	930	631	787	759	961	887	976	1015	1019
120	233	248	509	376	560	504	828	632	636	760	867	888	903	1016	1002
121	307	249	597	377	660	505	885	633	712	761	921	889	947	1017	1014
122	315	250	615	378	671	506	892	634	730	762	929	890	953	1018	1015
123	417	251	695	379	750	507	946	635	803	763	966	891	981	1019	1020
124	337	252	631	380	677	508	914	636	741	764	940	892	958	1020	1017
125	435	253	714	381	779	509	954	637	819	765	974	893	989	1021	1021
126	460	254	743	382	794	510	963	638	832	766	983	894	991	1022	1022
127	581	255	835	383	850	511	984	639	916	767	1003	895	1008	1023	1023

[0131] Sequence Z17, having a sequence length of 512:

[0, 1, 2, 7, 3, 8, 11, 24, 4, 10, 13, 27, 16, 32, 34, 69, 5, 12, 14, 31, 19, 37, 41, 73, 22, 44, 48, 81, 54, 88, 93, 144, 6, 17, 21, 39, 23, 45, 50, 83, 28, 52, 56, 89, 61, 99, 103, 155, 33, 58, 66, 101, 68, 109, 116, 165, 77, 118, 126, 179, 131, 187, 199, 269, 9, 18, 26, 51, 29, 55, 59, 95, 35, 63, 67, 104, 76, 112, 121, 169, 42, 72, 79, 117, 84, 124, 130, 183, 91, 133, 142, 193, 154, 205, 215, 286, 49, 82, 90, 129, 100, 137, 149, 202, 107, 150, 162, 210, 171, 225, 234, 299, 119, 167, 180, 227, 185, 235, 248, 313, 196, 252, 258, 323, 273, 334, 347, 407, 15, 25, 30, 62, 38, 70, 74, 120, 43, 80, 85, 128, 92, 136, 140, 201, 53, 86, 94, 138, 102, 148, 157, 212, 111, 163, 168, 221, 182, 232, 246, 309, 60, 98, 108, 153, 113, 164, 173, 228, 127, 178, 186, 237, 195, 251, 263, 322, 139, 190, 203, 254, 211, 265, 276, 332, 226, 281, 294, 345, 304, 355, 369, 426, 65, 110, 123, 174, 135, 184, 194, 253, 143, 197, 206, 267, 216, 275, 285, 342, 158, 213, 222, 279, 236, 293, 302, 356, 242, 306, 318, 365, 326, 377, 385, 435, 172, 229, 239, 296, 255, 308, 320, 371, 272, 321, 333, 381, 346, 390, 398, 442, 284, 341, 348, 393, 358, 405, 411, 453, 370, 414, 422, 458, 430, 460, 469, 492, 20, 36, 40, 78, 46, 87, 96, 147, 47, 97, 105, 156, 114, 170, 175, 244, 57, 106, 115, 176, 125, 181, 189, 245, 132, 188, 200, 262, 214, 271, 274, 331, 64, 122, 134, 177, 145, 191, 204, 270, 151, 209, 217, 277, 224, 291, 298, 354, 152, 223, 231, 290, 241, 303, 311, 366, 260, 317, 327, 376, 339, 386, 395, 440, 71, 141, 146, 207, 161, 220, 230, 287, 166, 233, 238, 301, 249, 312, 319, 374, 198, 247, 256, 315, 266, 325, 335, 384, 283, 340, 350, 392, 359, 403, 412, 450, 219, 268, 278, 330, 289, 344, 352, 399, 300, 357, 363, 406, 373, 416, 421, 459, 314, 368, 379, 419, 387, 427, 431, 461, 396, 437, 443, 470, 447, 478, 482, 495, 75, 159, 160, 240, 192, 250, 257, 316, 208, 261, 264, 329, 282, 337, 349, 401, 218, 280, 288, 343, 295, 353, 361, 408, 307, 364, 372, 415, 383, 423, 429, 465, 243, 292, 297, 360, 310, 367, 378, 420, 328,

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380, 388, 428, 397, 433, 441, 471, 338, 391, 402, 438, 409, 445, 452, 475, 417, 455, 456, 481, 462, 484, 487, 501, 259, 305, 324, 382, 336, 389, 394, 434, 351, 400, 404, 444, 413, 448, 454, 477, 362, 410, 418, 451, 424, 457, 463, 485, 436, 467, 468, 488, 474, 491, 494, 504, 375, 425, 432, 464, 439, 466, 473, 489, 446, 472, 476, 493, 480, 496, 498, 506, 449, 479, 483, 497, 486, 499, 500, 507, 490, 502, 503, 508, 505, 509, 510, 511]

[0132] Table Z17, having a sequence length of 512:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	64	9	128	15	192	65	256	20	320	71	384	75	448	259
1	1	65	18	129	25	193	110	257	36	321	141	385	159	449	305
2	2	66	26	130	30	194	123	258	40	322	146	386	160	450	324
3	7	67	51	131	62	195	174	259	78	323	207	387	240	451	382
4	3	68	29	132	38	196	135	260	46	324	161	388	192	452	336
5	8	69	55	133	70	197	184	261	87	325	220	389	250	453	389
6	11	70	59	134	74	198	194	262	96	326	230	390	257	454	394
7	24	71	95	135	120	199	253	263	147	327	287	391	316	455	434
8	4	72	35	136	43	200	143	264	47	328	166	392	208	456	351
9	10	73	63	137	80	201	197	265	97	329	233	393	261	457	400
10	13	74	67	138	85	202	206	266	105	330	238	394	264	458	404
11	27	75	104	139	128	203	267	267	156	331	301	395	329	459	444
12	16	76	76	140	92	204	216	268	114	332	249	396	282	460	413
13	32	77	112	141	136	205	275	269	170	333	312	397	337	461	448
14	34	78	121	142	140	206	285	270	175	334	319	398	349	462	454
15	69	79	169	143	201	207	342	271	244	335	374	399	401	463	477
16	5	80	42	144	53	208	158	272	57	336	198	400	218	464	362
17	12	81	72	145	86	209	213	273	106	337	247	401	280	465	410
18	14	82	79	146	94	210	222	274	115	338	256	402	288	466	418
19	31	83	117	147	138	211	279	275	176	339	315	403	343	467	451
20	19	84	84	148	102	212	236	276	125	340	266	404	295	468	424
21	37	85	124	149	148	213	293	277	181	341	325	405	353	469	457
22	41	86	130	150	157	214	302	278	189	342	335	406	361	470	463
23	73	87	183	151	212	215	356	279	245	343	384	407	408	471	485
24	22	88	91	152	111	216	242	280	132	344	283	408	307	472	436

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25	44	89	133	153	163	217	306	261	188	345	340	409	364	423	467
26	48	90	142	154	168	218	318	262	200	346	350	410	372	424	468
27	81	91	193	155	221	219	365	263	262	347	392	411	415	425	488
28	54	92	154	156	182	220	326	264	214	348	359	412	383	426	474
29	88	93	205	157	232	221	377	265	271	349	403	413	423	427	491
30	93	94	215	158	246	222	385	266	274	350	412	414	429	428	494
31	144	95	286	159	309	223	435	267	331	351	450	415	465	429	504
32	6	96	49	160	60	224	172	268	64	352	219	416	243	430	375
33	17	97	82	161	98	225	229	269	122	353	268	417	292	431	425
34	21	98	90	162	108	226	239	270	134	354	278	418	297	432	432
35	39	99	129	163	153	227	296	271	177	355	330	419	360	433	464
36	23	100	100	164	113	228	255	272	145	356	289	420	310	434	439
37	45	101	137	165	164	229	308	273	191	357	344	421	367	435	466
38	50	102	149	166	173	230	320	274	204	358	352	422	378	436	473
39	83	103	202	167	228	231	371	275	270	359	399	423	420	437	489
40	28	104	107	168	127	232	272	276	151	360	300	424	328	438	446
41	52	105	150	169	178	233	321	277	209	361	357	425	380	439	472
42	56	106	162	170	186	234	333	278	217	362	363	426	388	440	476
43	89	107	210	171	237	235	381	279	277	363	406	427	428	441	493
44	61	108	171	172	195	236	346	280	224	364	373	428	397	442	480
45	99	109	225	138	251	237	390	301	291	365	416	429	433	493	496
46	103	110	234	174	263	238	398	302	298	366	421	430	441	494	498
47	155	111	299	175	322	239	442	303	354	367	459	431	471	495	506
48	33	112	119	126	139	240	284	304	152	368	314	432	338	496	449
49	58	113	167	127	190	241	341	305	223	369	368	433	391	497	479
50	66	114	180	128	203	242	348	306	231	370	379	434	402	498	483
51	101	115	227	129	254	243	393	307	290	371	419	435	438	499	497
52	68	116	185	180	211	244	358	308	241	372	387	436	409	500	486
53	109	117	235	181	265	245	405	309	303	373	427	437	445	501	499
54	116	118	248	182	276	246	411	310	311	374	431	438	452	502	500
55	165	119	313	183	332	247	453	311	366	375	461	439	475	503	507
56	77	120	196	184	226	248	370	312	260	376	396	440	417	504	490
57	118	121	252	185	281	249	414	313	317	377	437	441	455	505	502
58	126	122	258	186	294	250	422	314	327	378	443	442	456	506	503
59	179	123	323	187	345	251	458	315	376	379	470	443	481	507	508
60	131	124	273	188	304	252	430	316	339	380	447	444	462	508	505
61	187	125	334	189	355	253	460	317	386	381	478	445	484	509	509

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62	199	126	347	190	369	254	469	318	395	382	482	446	487	510	510
63	269	123	407	191	426	255	492	319	440	383	495	447	501	511	511

[0133] Sequence Z18, having a sequence length of 256:

[0, 1, 2, 7, 3, 8, 11, 23, 4, 10, 13, 26, 16, 31, 33, 62, 5, 12, 14, 30, 19, 35, 38, 65, 21, 41, 43, 71, 49, 77, 82, 122, 6, 17, 20, 37, 22, 42, 45, 73, 27, 47, 51, 78, 55, 86, 90, 128, 32, 52, 59, 88, 61, 94, 99, 134, 68, 101, 107, 143, 112, 150, 157, 194, 9, 18, 25, 46, 28, 50, 53, 84, 34, 57, 60, 91, 67, 97, 104, 137, 39, 64, 69, 100, 74, 106, 111, 146, 80, 113, 120, 152, 127, 161, 167, 203, 44, 72, 79, 110, 87, 116, 124, 159, 92, 125, 131, 163, 138, 171, 177, 207, 102, 135, 144, 173, 148, 178, 184, 213, 155, 186, 190, 218, 196, 222, 227, 243, 15, 24, 29, 56, 36, 63, 66, 103, 40, 70, 75, 109, 81, 115, 119, 158, 48, 76, 83, 117, 89, 123, 129, 165, 96, 132, 136, 169, 145, 176, 183, 212, 54, 85, 93, 126, 98, 133, 140, 174, 108, 142, 149, 180, 154, 185, 191, 217, 118, 151, 160, 188, 164, 192, 198, 220, 172, 200, 205, 225, 209, 229, 233, 247, 58, 95, 105, 141, 114, 147, 153, 187, 121, 156, 162, 193, 168, 197, 202, 224, 130, 166, 170, 199, 179, 204, 208, 230, 182, 210, 214, 232, 219, 236, 238, 249, 139, 175, 181, 206, 189, 211, 215, 235, 195, 216, 221, 237, 226, 239, 241, 250, 201, 223, 228, 240, 231, 242, 244, 251, 234, 245, 246, 252, 248, 253, 254, 255]

[0134] Table Z18, having a sequence length of 256:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	32	6	64	9	96	44	128	15	160	54	192	58	224	139
1	1	33	17	65	18	97	72	129	24	161	85	193	95	225	175
2	2	34	20	66	25	98	79	130	29	162	93	194	105	226	181
3	7	35	37	67	46	99	110	131	56	163	126	195	141	227	206
4	3	36	22	68	28	100	87	132	36	164	98	196	114	228	189
5	8	37	42	69	50	101	116	133	63	165	133	197	147	229	211
6	11	38	45	70	53	102	124	134	66	166	140	198	153	230	215
7	23	39	73	71	84	103	159	135	103	167	174	199	187	231	235
8	4	40	27	72	34	104	92	136	40	168	108	200	121	232	195
9	10	41	47	73	57	105	125	137	70	169	142	201	156	233	216
10	13	42	51	74	60	106	131	138	75	170	149	202	162	234	221
11	26	43	78	75	91	107	163	139	109	171	180	203	193	235	237
12	16	44	55	76	67	108	138	140	81	172	154	204	168	236	226

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13	31	45	86	77	97	109	171	141	115	173	185	205	197	237	239
14	33	46	90	78	104	110	177	142	119	174	191	206	202	238	241
15	62	47	128	79	137	111	207	143	158	175	217	207	224	239	250
16	5	48	32	80	39	112	102	144	48	176	118	208	130	240	201
17	12	49	52	81	64	113	135	145	76	177	151	209	166	241	223
18	14	50	59	82	69	114	144	146	83	178	160	210	170	242	228
19	30	51	88	83	100	115	173	147	117	179	188	211	199	243	240
20	19	52	61	84	74	116	148	148	89	180	164	212	179	244	231
21	35	53	94	85	106	117	178	149	123	181	192	213	204	245	242
22	38	54	99	86	111	118	184	150	129	182	198	214	208	246	244
23	65	55	134	87	146	119	213	151	165	183	220	215	230	247	251
24	21	56	68	88	80	120	155	152	96	184	172	216	182	248	234
25	41	57	101	89	113	121	186	153	132	185	200	217	210	249	245
26	43	58	107	90	120	122	190	154	136	186	205	218	214	250	246
27	71	59	143	91	152	123	218	155	169	187	225	219	232	251	252
28	49	60	112	92	127	124	196	156	145	188	209	220	219	252	248
29	77	61	150	93	161	125	222	157	176	189	229	221	236	253	253
30	82	62	157	94	167	126	227	158	183	190	233	222	238	254	254
31	122	63	194	95	203	127	243	159	212	191	247	223	249	255	255

[0135] Sequence Z19, having a sequence length of 128:

[0, 1, 2, 7, 3, 8, 11, 22, 4, 10, 13, 24, 15, 28, 30, 53, 5, 12, 14, 27, 18, 32, 34, 55, 20, 36, 38, 59, 43, 63, 67, 90, 6, 16, 19, 33, 21, 37, 40, 61, 25, 42, 45, 64, 48, 69, 72, 94, 29, 46, 50, 71, 52, 75, 77, 96, 57, 79, 83, 100, 86, 104, 107, 119, 9, 17, 23, 41, 26, 44, 47, 68, 31, 49, 51, 73, 56, 76, 81, 98, 35, 54, 58, 78, 62, 82, 85, 102, 66, 87, 89, 105, 93, 109, 111, 121, 39, 60, 65, 84, 70, 88, 91, 108, 74, 92, 95, 110, 99, 112, 114, 122, 80, 97, 101, 113, 103, 115, 116, 123, 106, 117, 118, 124, 120, 125, 126, 127]

[0136] Table Z19, having a sequence length of 128:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	16	5	32	6	48	29	64	9	80	35	96	39	112	80
1	1	17	12	33	16	49	46	65	17	81	54	97	60	113	97
2	2	18	14	34	19	50	50	66	23	82	58	98	65	114	101

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3	7	19	27	35	33	51	71	67	41	83	78	99	84	115	113
4	3	20	18	36	21	52	52	68	26	84	62	100	70	116	103
5	8	21	32	37	37	53	75	69	44	85	82	101	88	117	115
6	11	22	34	38	40	54	77	70	47	86	85	102	91	118	116
7	22	23	55	39	61	55	96	71	68	87	102	103	108	119	123
8	4	24	20	40	25	56	57	72	31	88	66	104	74	120	106
9	10	25	36	41	42	57	79	73	49	89	87	105	92	121	117
10	13	26	38	42	45	58	83	74	51	90	89	106	95	122	118
11	24	27	59	43	64	59	100	75	73	91	105	107	110	123	124
12	15	28	43	44	48	60	86	76	56	92	93	108	99	124	120
13	28	29	63	45	69	61	104	77	76	93	109	109	112	125	125
14	30	30	67	46	72	62	107	78	81	94	111	110	114	126	126
15	53	31	90	47	94	63	119	79	98	95	121	111	122	127	127

[0137] Sequence Z20, having a sequence length of 64:

[0, 1, 2, 7, 3, 8, 10, 20, 4, 9, 12, 21, 14, 24, 26, 41, 5, 11, 13, 23, 16, 27, 29, 42, 18, 30, 32, 44, 35, 46, 48, 57, 6, 15, 17, 28, 19, 31, 33, 45, 22, 34, 36, 47, 38, 49, 51, 58, 25, 37, 39, 50, 40, 52, 53, 59, 43, 54, 55, 60, 56, 61, 62, 63]

[0138] Table Z20, having a sequence length of 64:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	8	4	16	5	24	18	32	6	40	22	48	25	56	43
1	1	9	9	17	11	25	30	33	15	41	34	49	37	57	54
2	2	10	12	18	13	26	32	34	17	42	36	50	39	58	55
3	7	11	21	19	23	27	44	35	28	43	47	51	50	59	60
4	3	12	14	20	16	28	35	36	19	44	38	52	40	60	56
5	8	13	24	21	27	29	46	37	31	45	49	53	52	61	61
6	10	14	26	22	29	30	48	38	33	46	51	54	53	62	62
7	20	15	41	23	42	31	57	39	45	47	58	55	59	63	63

[0139] Fifth group of sequences (a criterion that preferentially considers a minimum code distance).

[0140] Sequence Q21, having a sequence length of 1024:

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[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 6, 9, 17, 10, 18, 128, 12, 33, 256, 20, 34, 24, 65, 36, 7, 129, 66, 512, 11, 40, 68, 19, 13, 130, 48, 14, 72, 257, 21, 132, 35, 258, 26, 513, 80, 37, 25, 22, 136, 96, 260, 38, 514, 264, 67, 41, 144, 28, 69, 42, 516, 49, 160, 272, 70, 520, 288, 528, 131, 44, 544, 73, 192, 50, 74, 52, 15, 133, 320, 81, 23, 134, 76, 137, 82, 384, 56, 27, 97, 39, 259, 84, 138, 145, 261, 29, 43, 98, 515, 88, 140, 30, 146, 71, 262, 265, 517, 161, 45, 576, 518, 100, 51, 148, 521, 46, 75, 640, 266, 273, 522, 104, 162, 53, 193, 152, 77, 164, 268, 274, 54, 83, 530, 57, 112, 529, 524, 135, 78, 289, 194, 85, 276, 58, 168, 139, 99, 86, 60, 89, 768, 196, 290, 141, 101, 280, 545, 546, 532, 147, 176, 142, 90, 536, 292, 200, 263, 31, 149, 321, 322, 577, 102, 105, 296, 163, 92, 47, 150, 548, 208, 324, 385, 304, 267, 578, 106, 153, 386, 165, 55, 328, 113, 519, 552, 641, 154, 79, 108, 224, 269, 166, 523, 560, 580, 195, 277, 169, 275, 291, 59, 270, 114, 156, 87, 197, 116, 170, 61, 525, 531, 177, 278, 281, 526, 642, 293, 388, 91, 584, 769, 198, 172, 120, 201, 62, 143, 336, 282, 103, 178, 294, 93, 533, 644, 534, 547, 770, 392, 297, 592, 323, 202, 284, 151, 209, 180, 107, 325, 94, 537, 400, 298, 204, 352, 305, 155, 300, 210, 608, 648, 109, 184, 115, 167, 225, 326, 157, 110, 772, 549, 656, 538, 117, 212, 330, 171, 550, 329, 306, 226, 387, 308, 271, 579, 416, 216, 337, 158, 776, 118, 540, 553, 279, 332, 389, 173, 121, 199, 179, 228, 283, 122, 393, 174, 312, 672, 390, 554, 556, 203, 561, 181, 295, 448, 353, 338, 63, 581, 340, 285, 394, 232, 124, 354, 582, 784, 704, 527, 286, 182, 562, 643, 585, 205, 299, 211, 401, 185, 396, 240, 586, 645, 593, 535, 301, 402, 344, 206, 564, 800, 327, 356, 307, 95, 417, 213, 186, 404, 111, 539, 568, 594, 649, 771, 302, 832, 588, 646, 227, 360, 214, 188, 551, 609, 896, 331, 309, 418, 449, 217, 408, 229, 541, 159, 420, 596, 650, 773, 310, 333, 119, 368, 339, 391, 657, 313, 218, 542, 610, 334, 230, 233, 774, 658, 612, 175, 123, 450, 652, 341, 220, 557, 314, 555, 600, 583, 424, 395, 777, 673, 355, 287, 183, 234, 125, 342, 563, 674, 616, 558, 660, 778, 452, 397, 432, 316, 345, 241, 207, 785, 403, 357, 187, 587, 565, 664, 624, 780, 236, 126, 242, 398, 705, 346, 456, 358, 405, 303, 569, 595, 189, 786, 215, 676, 589, 566, 647, 361, 706, 244, 348, 419, 406, 311, 708, 219, 598, 601, 651, 611, 409, 680, 788, 362, 570, 597, 572, 464, 801, 590, 421, 802, 369, 792, 190, 602, 653, 248, 688, 231, 410, 364, 335, 422, 613, 659, 654, 315, 221, 370, 425, 235, 451, 480, 775, 412, 614, 343, 222, 317, 372, 543, 426, 453, 237, 559, 833, 804, 712, 834, 661, 808, 779, 617, 604, 433, 720, 816, 836, 347, 897, 243, 662, 454, 318, 675, 376, 428, 625, 238, 359, 567, 618, 665, 736, 898, 457, 399, 781, 591, 666, 678, 349, 434, 677, 840, 782, 626, 571, 620, 787, 363, 245, 458, 127, 407, 436, 465, 350, 246, 681, 460, 249, 599, 411, 365, 668, 707, 573, 789, 803, 790, 682, 440, 709, 466, 628, 371, 423, 366, 250, 413, 574, 468, 603, 481, 689, 793, 191, 373, 655, 900, 805, 427, 615, 710, 414, 252, 848, 684, 713, 605, 690, 632, 482, 794, 806, 472, 223, 663, 835, 904, 809, 714, 619, 796, 374, 429, 455, 692, 721, 837, 716, 864, 810, 606, 912, 722, 696, 377, 817, 435, 812, 484, 319, 430, 621, 838, 667, 239, 378, 459, 437, 627, 622, 488, 380, 461, 679, 841, 818, 724, 669, 496, 629, 928, 737, 899, 783, 738, 901, 842, 438, 467, 247, 820, 849, 683, 351, 791, 441, 728, 670, 462, 469, 442,

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251, 367, 630, 740, 902, 711, 844, 850, 905, 685, 691, 824, 633, 483, 795, 744, 470, 852, 686, 444, 473, 253, 634, 485, 415, 375, 960, 865, 575, 807, 906, 715, 913, 693, 797, 866, 811, 717, 474, 254, 694, 723, 636, 486, 798, 607, 697, 489, 431, 379, 908, 752, 914, 856, 868, 839, 929, 813, 718, 819, 476, 916, 725, 698, 490, 739, 814, 843, 623, 497, 439, 381, 671, 463, 726, 930, 872, 821, 920, 700, 729, 492, 932, 961, 741, 903, 845, 498, 880, 382, 822, 851, 631, 443, 825, 730, 471, 445, 687, 635, 742, 846, 500, 745, 826, 732, 446, 962, 936, 255, 853, 504, 637, 907, 475, 746, 867, 487, 695, 799, 854, 828, 753, 857, 964, 909, 719, 477, 915, 869, 699, 748, 944, 638, 754, 491, 910, 858, 478, 815, 727, 917, 870, 493, 873, 701, 968, 383, 860, 756, 918, 931, 976, 499, 921, 874, 702, 823, 494, 731, 760, 881, 933, 501, 743, 922, 876, 847, 934, 827, 733, 502, 992, 882, 447, 963, 937, 747, 505, 855, 924, 734, 829, 884, 938, 506, 965, 749, 945, 966, 940, 969, 911, 946, 755, 888, 830, 859, 639, 871, 970, 750, 508, 948, 977, 757, 479, 919, 861, 875, 972, 978, 758, 862, 952, 761, 993, 923, 703, 495, 935, 877, 883, 980, 762, 925, 994, 878, 503, 885, 939, 984, 764, 996, 926, 735, 967, 886, 941, 507, 947, 889, 831, 1000, 942, 971, 751, 509, 949, 890, 973, 1008, 510, 950, 979, 759, 892, 863, 953, 974, 981, 954, 763, 995, 879, 982, 956, 985, 765, 997, 927, 887, 986, 766, 998, 1001, 943, 891, 988, 1002, 1009, 511, 951, 893, 1004, 975, 1010, 894, 955, 1012, 983, 957, 1016, 958, 987, 767, 999, 989, 1003, 990, 1005, 1011, 895, 1006, 1013, 1014, 1017, 959, 1018, 1020, 991, 1007, 1015, 1019, 1021, 1022, 1023]

[0141] Table Q21, having a sequence length of 1024:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	128	268	256	180	384	609	512	364	640	663	768	916	896	966
1	1	129	274	257	107	385	896	513	335	641	835	769	725	897	940
2	2	130	54	258	325	386	331	514	422	642	904	770	698	898	969
3	4	131	83	259	94	387	309	515	613	643	809	771	490	899	911
4	8	132	530	260	537	388	418	516	659	644	714	772	739	900	946
5	16	133	57	261	400	389	449	517	654	645	619	773	814	901	755
6	32	134	112	262	298	390	217	518	315	646	796	774	843	902	888
7	3	135	529	263	204	391	408	519	221	647	374	775	623	903	830
8	5	136	524	264	352	392	229	520	370	648	429	776	497	904	859
9	64	137	135	265	305	393	541	521	425	649	455	777	439	905	639
10	6	138	78	266	155	394	159	522	235	650	692	778	381	906	871
11	9	139	289	267	300	395	420	523	451	651	721	779	671	907	970

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12	17	140	194	268	210	396	596	524	480	652	837	280	463	908	750
13	10	141	85	269	608	397	650	525	775	653	716	281	726	909	508
14	18	142	276	270	648	398	773	526	412	654	864	282	930	910	948
15	128	143	58	271	109	399	310	527	614	655	810	283	872	911	977
16	12	144	168	272	184	400	333	528	343	656	606	284	821	912	757
17	33	145	139	273	115	401	119	529	222	657	912	285	920	913	479
18	256	146	99	274	167	402	368	530	317	658	722	286	700	914	919
19	20	147	86	275	225	403	339	531	372	659	696	287	729	915	861
20	34	148	60	276	326	404	391	532	543	660	377	288	492	916	875
21	24	149	89	277	157	405	657	533	426	661	817	289	932	917	972
22	65	150	768	278	110	406	313	534	453	662	435	290	961	918	978
23	36	151	196	279	772	407	218	535	237	663	812	291	741	919	758
24	7	152	290	280	549	408	542	536	559	664	484	292	903	920	862
25	129	153	141	281	656	409	610	537	833	665	319	293	845	921	952
26	66	154	101	282	538	410	334	538	804	666	430	294	498	922	761
27	512	155	280	283	117	411	230	539	712	667	621	295	880	923	993
28	11	156	545	284	212	412	233	540	834	668	838	296	382	924	923
29	40	157	546	285	330	413	774	541	661	669	667	297	822	925	703
30	68	158	532	286	171	414	658	542	808	670	239	298	851	926	495
31	19	159	147	287	550	415	612	543	779	671	378	299	631	927	935
32	13	160	176	288	329	416	175	544	617	672	459	300	443	928	877
33	130	161	142	289	306	417	123	545	604	673	437	301	825	929	883
34	48	162	90	290	226	418	450	546	433	674	627	302	730	930	980
35	14	163	536	291	387	419	652	547	720	675	622	303	471	931	762
36	72	164	292	292	308	420	341	548	816	676	488	304	445	932	925
37	257	165	200	293	271	421	220	549	836	677	380	305	687	933	994
38	21	166	263	294	579	422	557	550	347	678	461	306	635	934	878
39	132	167	31	295	416	423	314	551	897	679	679	307	742	935	503
40	35	168	149	296	216	424	555	552	243	680	841	308	846	936	885
41	258	169	321	297	337	425	600	553	662	681	818	309	500	937	939
42	26	170	322	298	158	426	583	554	454	682	724	310	745	938	984
43	513	171	577	299	776	427	424	555	318	683	669	311	826	939	764
44	80	172	102	300	118	428	395	556	675	684	496	312	732	940	996
45	37	173	105	301	540	429	777	557	376	685	629	313	446	941	926
46	25	174	296	302	553	430	673	558	428	686	928	314	962	942	735
47	22	175	163	303	279	431	355	559	625	687	737	315	936	943	967
48	136	176	92	304	332	432	287	560	238	688	899	316	255	944	886

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49	96	177	47	305	389	433	183	561	359	689	783	817	853	945	941
50	260	178	150	306	173	434	234	562	567	690	738	818	504	946	507
51	38	179	548	307	121	435	125	563	618	691	901	819	637	947	947
52	514	180	208	308	199	436	342	564	665	692	842	820	907	948	889
53	264	181	324	309	179	437	563	565	736	693	438	821	475	949	831
54	67	182	385	310	228	438	674	566	898	694	467	822	746	950	1000
55	41	183	304	311	283	439	616	567	457	695	247	823	867	951	942
56	144	184	267	312	122	440	558	568	399	696	820	824	487	952	971
57	28	185	578	313	393	441	660	569	781	697	849	825	695	953	751
58	69	186	106	314	174	442	778	570	591	698	683	826	799	954	509
59	42	187	153	315	312	443	452	571	666	699	351	827	854	955	949
60	516	188	386	316	672	444	397	572	678	700	791	828	828	956	890
61	49	189	165	317	390	445	432	573	349	701	441	829	753	957	973
62	160	190	55	318	554	446	316	574	434	702	728	830	857	958	1008
63	272	191	328	319	556	447	345	575	677	703	670	831	964	959	510
64	70	192	113	320	203	448	241	576	840	704	462	832	909	960	950
65	520	193	519	321	561	449	207	577	782	705	469	833	719	961	979
66	288	194	552	322	181	450	785	578	626	706	442	834	477	962	759
67	528	195	641	323	295	451	403	579	571	707	251	835	915	963	892
68	131	196	154	324	448	452	357	580	620	708	367	836	869	964	863
69	44	197	79	325	353	453	187	581	787	709	630	837	699	965	953
70	544	198	108	326	338	454	587	582	363	710	740	838	748	966	974
71	73	199	224	327	63	455	565	583	245	711	902	839	944	967	981
72	192	200	269	328	581	456	664	584	458	712	711	840	638	968	954
73	50	201	166	329	340	457	624	585	127	713	844	841	754	969	763
74	74	202	523	330	285	458	780	586	407	714	850	842	491	970	995
75	52	203	560	331	394	459	236	587	436	715	905	843	910	971	879
76	15	204	580	332	232	460	126	588	465	716	685	844	858	972	982
77	133	205	195	333	124	461	242	589	350	717	691	845	478	973	956
78	320	206	277	334	354	462	398	590	246	718	824	846	815	974	985
79	81	207	169	335	582	463	705	591	681	719	633	847	727	975	765
80	23	208	275	336	784	464	346	592	460	720	483	848	917	976	997
81	134	209	291	337	704	465	456	593	249	721	795	849	870	977	927
82	76	210	59	338	527	466	358	594	599	722	744	850	493	978	887
83	137	211	270	339	286	467	405	595	411	723	470	851	873	979	986
84	82	212	114	340	182	468	303	596	365	724	852	852	701	980	766
85	384	213	156	341	562	469	569	597	668	725	686	853	968	981	998

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86	56	214	87	342	643	470	595	598	707	726	444	854	383	982	1001
87	27	215	197	343	585	471	189	599	573	727	473	855	860	983	943
88	97	216	116	344	205	472	786	600	789	728	253	856	756	984	891
89	39	217	170	345	299	473	215	601	803	729	634	857	918	985	988
90	259	218	61	346	211	474	676	602	790	730	485	858	931	986	1002
91	84	219	525	347	401	475	589	603	682	731	415	859	976	987	1009
92	138	220	531	348	185	476	566	604	440	732	375	860	499	988	511
93	145	221	177	349	396	477	647	605	709	733	960	861	921	989	951
94	261	222	278	350	240	478	361	606	466	734	865	862	874	990	893
95	29	223	281	351	586	479	706	607	628	735	575	863	702	991	1004
96	43	224	526	352	645	480	244	608	371	736	807	864	823	992	975
97	98	225	642	353	593	481	348	609	423	737	906	865	494	993	1010
98	515	226	293	354	535	482	419	610	366	738	715	866	731	994	894
99	88	227	388	355	301	483	406	611	250	739	913	867	760	995	955
100	140	228	91	356	402	484	311	612	413	740	693	868	881	996	1012
101	30	229	584	357	344	485	708	613	574	741	797	869	933	997	983
102	146	230	769	358	206	486	219	614	468	742	866	870	501	998	957
103	71	231	198	359	564	487	598	615	603	743	811	871	743	999	1016
104	262	232	172	360	800	488	601	616	481	744	717	872	922	1000	958
105	265	233	120	361	327	489	651	617	689	745	474	873	876	1001	987
106	517	234	201	362	356	490	611	618	793	746	254	874	847	1002	767
107	161	235	62	363	307	491	409	619	191	747	694	875	934	1003	999
108	45	236	143	364	95	492	680	620	373	748	723	876	827	1004	989
109	576	237	336	365	417	493	788	621	655	749	636	877	733	1005	1003
110	518	238	282	366	213	494	362	622	900	750	486	878	502	1006	990
111	100	239	103	367	186	495	570	623	805	751	798	879	992	1007	1005
112	51	240	178	368	404	496	597	624	427	752	607	880	882	1008	1011
113	148	241	294	369	111	497	572	625	615	753	697	881	447	1009	895
114	521	242	93	370	539	498	464	626	710	754	489	882	963	1010	1006
115	46	243	533	371	568	499	801	627	414	755	431	883	937	1011	1013
116	75	244	644	372	594	500	590	628	252	756	379	884	747	1012	1014
117	640	245	534	373	649	501	421	629	848	757	908	885	505	1013	1017
118	266	246	547	374	771	502	802	630	684	758	752	886	855	1014	959
119	273	247	770	375	302	503	369	631	713	759	914	887	924	1015	1018
120	522	248	392	376	832	504	792	632	605	760	856	888	734	1016	1020
121	104	249	297	377	588	505	190	633	690	761	868	889	829	1017	991
122	162	250	592	378	646	506	602	634	632	762	839	890	884	1018	1007

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123	53	251	323	379	227	505	653	636	482	763	929	891	938	1019	1015
124	193	252	202	380	360	506	248	637	794	764	813	892	506	1020	1019
125	152	253	284	381	214	509	688	507	806	765	718	893	965	1021	1021
126	77	254	151	382	188	510	231	638	472	766	819	894	749	1022	1022
127	164	255	209	383	551	511	410	639	223	767	476	895	945	1023	1023

[0142] Sequence Q22, having a sequence length of 512:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 6, 9, 17, 10, 18, 128, 12, 33, 256, 20, 34, 24, 65, 36, 7, 129, 66, 11, 40, 68, 19, 13, 130, 48, 14, 72, 257, 21, 132, 35, 258, 26, 80, 37, 25, 22, 136, 96, 260, 38, 264, 67, 41, 144, 28, 69, 42, 49, 160, 272, 70, 288, 131, 44, 73, 192, 50, 74, 52, 15, 133, 320, 81, 23, 134, 76, 137, 82, 384, 56, 27, 97, 39, 259, 84, 138, 145, 261, 29, 43, 98, 88, 140, 30, 146, 71, 262, 265, 161, 45, 100, 51, 148, 46, 75, 266, 273, 104, 162, 53, 193, 152, 77, 164, 268, 274, 54, 83, 57, 112, 135, 78, 289, 194, 85, 276, 58, 168, 139, 99, 86, 60, 89, 196, 290, 141, 101, 280, 147, 176, 142, 90, 292, 200, 263, 31, 149, 321, 322, 102, 105, 296, 163, 92, 47, 150, 208, 324, 385, 304, 267, 106, 153, 386, 165, 55, 328, 113, 154, 79, 108, 224, 269, 166, 195, 277, 169, 275, 291, 59, 270, 114, 156, 87, 197, 116, 170, 61, 177, 278, 281, 293, 388, 91, 198, 172, 120, 201, 62, 143, 336, 282, 103, 178, 294, 93, 392, 297, 323, 202, 284, 151, 209, 180, 107, 325, 94, 400, 298, 204, 352, 305, 155, 300, 210, 109, 184, 115, 167, 225, 326, 157, 110, 117, 212, 330, 171, 329, 306, 226, 387, 308, 271, 416, 216, 337, 158, 118, 279, 332, 389, 173, 121, 199, 179, 228, 283, 122, 393, 174, 312, 390, 203, 181, 295, 448, 353, 338, 63, 340, 285, 394, 232, 124, 354, 286, 182, 205, 299, 211, 401, 185, 396, 240, 301, 402, 344, 206, 327, 356, 307, 95, 417, 213, 186, 404, 111, 302, 227, 360, 214, 188, 331, 309, 418, 449, 217, 408, 229, 159, 420, 310, 333, 119, 368, 339, 391, 313, 218, 334, 230, 233, 175, 123, 450, 341, 220, 314, 424, 395, 355, 287, 183, 234, 125, 342, 452, 397, 432, 316, 345, 241, 207, 403, 357, 187, 236, 126, 242, 398, 346, 456, 358, 405, 303, 189, 215, 361, 244, 348, 419, 406, 311, 219, 409, 362, 464, 421, 369, 190, 248, 231, 410, 364, 335, 422, 315, 221, 370, 425, 235, 451, 480, 412, 343, 222, 317, 372, 426, 453, 237, 433, 347, 243, 454, 318, 376, 428, 238, 359, 457, 399, 349, 434, 363, 245, 458, 127, 407, 436, 465, 350, 246, 460, 249, 411, 365, 440, 466, 371, 423, 366, 250, 413, 468, 481, 191, 373, 427, 414, 252, 482, 472, 223, 374, 429, 455, 377, 435, 484, 319, 430, 239, 378, 459, 437, 488, 380, 461, 496, 438, 467, 247, 351, 441, 462, 469, 442, 251, 367, 483, 470, 444, 473, 253, 485, 415, 375, 474, 254, 486, 489, 431, 379, 476, 490, 497, 439, 381, 463, 492, 498, 382, 443, 471, 445, 500, 446, 255, 504, 475, 487, 477, 491, 478, 493, 383, 499, 494, 501, 502, 447, 505, 506, 508, 479, 495, 503, 507, 509, 510, 511]

[0143] Table Q22, having a sequence length of 512:

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Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	64	73	128	139	192	388	256	283	320	230	384	343	448	461
1	1	65	192	129	99	193	91	257	122	321	233	385	222	449	496
2	2	66	50	130	86	194	198	258	393	322	175	386	317	450	438
3	4	67	74	131	60	195	172	259	174	323	123	387	372	451	467
4	8	68	52	132	89	196	120	260	312	324	450	388	426	452	247
5	16	69	15	133	196	197	201	261	390	325	341	389	453	453	351
6	32	70	133	134	290	198	62	262	203	326	220	390	237	454	441
7	3	71	320	135	141	199	143	263	181	327	314	391	433	455	462
8	5	72	81	136	101	200	336	264	295	328	424	392	347	456	469
9	64	73	23	137	280	201	282	265	448	329	395	393	243	457	442
10	6	74	134	138	147	202	103	266	353	330	355	394	454	458	251
11	9	75	76	139	176	203	178	267	338	331	287	395	318	459	367
12	17	76	137	140	142	204	294	268	63	332	183	396	376	460	483
13	10	77	82	141	90	205	93	269	340	333	234	397	428	461	470
14	18	78	384	142	292	206	392	270	285	334	125	398	238	462	444
15	128	79	56	143	200	207	297	271	394	335	342	399	359	463	473
16	12	80	27	144	263	208	323	272	232	336	452	400	457	464	253
17	33	81	97	145	31	209	202	273	124	337	397	401	399	465	485
18	256	82	39	146	149	210	284	274	354	338	432	402	349	466	415
19	20	83	259	147	321	211	151	275	286	339	316	403	434	467	375
20	34	84	84	148	322	212	209	276	182	340	345	404	363	468	474
21	24	85	138	149	102	213	180	277	205	341	241	405	245	469	254
22	65	86	145	150	105	214	107	278	299	342	207	406	458	470	486
23	36	87	261	151	296	215	325	279	211	343	403	407	127	471	489
24	7	88	29	152	163	216	94	280	401	344	357	408	407	472	431
25	129	89	43	153	92	217	400	281	185	345	187	409	436	473	379
26	66	90	98	154	47	218	298	282	396	346	236	410	465	474	476
27	11	91	88	155	150	219	204	283	240	347	126	411	350	475	490
28	40	92	140	156	208	220	352	284	301	348	242	412	246	476	497
29	68	93	30	157	324	221	305	285	402	349	398	413	460	477	439
30	19	94	146	158	385	222	155	286	344	350	346	414	249	478	381

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31	13	95	71	159	304	223	300	287	206	351	456	415	411	479	463
32	130	96	262	160	267	224	210	288	327	352	358	416	365	480	492
33	48	97	265	161	106	225	109	289	356	353	405	417	440	481	498
34	14	98	161	162	153	226	184	290	307	354	303	418	466	482	382
35	72	99	45	163	386	227	115	291	95	355	189	419	371	483	443
36	257	100	100	164	165	228	167	292	417	356	215	420	423	484	471
37	21	101	51	165	55	229	225	293	213	357	361	421	366	485	445
38	132	102	148	166	328	230	326	294	186	358	244	422	250	486	500
39	35	103	46	167	113	231	157	295	404	359	348	423	413	487	446
40	258	104	75	168	154	232	110	296	111	360	419	424	468	488	255
41	26	105	266	169	79	233	117	297	302	361	406	425	481	489	504
42	80	106	273	170	108	234	212	298	227	362	311	426	191	490	475
43	37	107	104	171	224	235	330	299	360	363	219	427	373	491	487
44	25	108	162	172	269	236	171	300	214	364	409	428	427	492	477
45	22	109	53	173	166	237	329	301	188	365	362	429	414	493	491
46	136	110	193	174	195	238	306	302	331	366	464	430	252	494	478
47	96	111	152	175	277	239	226	303	309	367	421	431	482	495	493
48	260	112	77	176	169	240	387	304	418	368	369	432	472	496	383
49	38	113	164	177	275	241	308	305	449	369	190	433	223	497	499
50	264	114	268	178	291	242	271	306	217	370	248	434	374	498	494
51	67	115	274	179	59	243	416	307	408	371	231	435	429	499	501
52	41	116	54	180	270	244	216	308	229	372	410	436	455	500	502
53	144	117	83	181	114	245	337	309	159	373	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	374	335	438	435	502	505
55	69	119	112	183	87	247	118	311	310	375	422	439	484	503	506
56	42	120	135	184	197	248	279	312	333	376	315	440	319	504	508
57	49	121	78	185	116	249	332	313	119	377	221	441	430	505	479
58	160	122	289	186	170	250	389	314	368	378	370	442	239	506	495
59	272	123	194	187	61	251	173	315	339	379	425	443	378	507	503
60	70	124	85	188	177	252	121	316	391	380	235	444	459	508	507
61	288	125	276	189	278	253	199	317	313	381	451	445	437	509	509
62	131	126	58	190	281	254	179	318	218	382	480	446	488	510	510
63	44	127	168	191	293	255	228	319	334	383	412	447	380	511	511

[0144] Sequence Q23, having a sequence length of 256:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 6, 9, 17, 10, 18, 128, 12, 33, 20, 34, 24, 65, 36, 7, 129, 66, 11, 40, 68, 19, 13, 130, 48, 14, 72, 21, 132, 35, 26, 80, 37, 25, 22, 136, 96, 38, 67, 41, 144, 28, 69, 42,

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49, 160, 70, 131, 44, 73, 192, 50, 74, 52, 15, 133, 81, 23, 134, 76, 137, 82, 56, 27, 97, 39, 84, 138, 145, 29, 43, 98, 88, 140, 30, 146, 71, 161, 45, 100, 51, 148, 46, 75, 104, 162, 53, 193, 152, 77, 164, 54, 83, 57, 112, 135, 78, 194, 85, 58, 168, 139, 99, 86, 60, 89, 196, 141, 101, 147, 176, 142, 90, 200, 31, 149, 102, 105, 163, 92, 47, 150, 208, 106, 153, 165, 55, 113, 154, 79, 108, 224, 166, 195, 169, 59, 114, 156, 87, 197, 116, 170, 61, 177, 91, 198, 172, 120, 201, 62, 143, 103, 178, 93, 202, 151, 209, 180, 107, 94, 204, 155, 210, 109, 184, 115, 167, 225, 157, 110, 117, 212, 171, 226, 216, 158, 118, 173, 121, 199, 179, 228, 122, 174, 203, 181, 63, 232, 124, 182, 205, 211, 185, 240, 206, 95, 213, 186, 111, 227, 214, 188, 217, 229, 159, 119, 218, 230, 233, 175, 123, 220, 183, 234, 125, 241, 207, 187, 236, 126, 242, 189, 215, 244, 219, 190, 248, 231, 221, 235, 222, 237, 243, 238, 245, 127, 246, 249, 250, 191, 252, 223, 239, 247, 251, 253, 254, 255]

[0145] Table Q23, having a sequence length of 256:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	32	48	64	81	96	152	128	47	160	178	192	203	224	207
1	1	33	14	65	23	97	77	129	150	161	93	193	181	225	187
2	2	34	72	66	134	98	164	130	208	162	202	194	63	226	236
3	4	35	21	67	76	99	54	131	106	163	151	195	232	227	126
4	8	36	132	68	137	100	83	132	153	164	209	196	124	228	242
5	16	37	35	69	82	101	57	133	165	165	180	197	182	229	189
6	32	38	26	70	56	102	112	134	55	166	107	198	205	230	215
7	3	39	80	71	27	103	135	135	113	167	94	199	211	231	244
8	5	40	37	72	97	104	78	136	154	168	204	200	185	232	219
9	64	41	25	73	39	105	194	137	79	169	155	201	240	233	190
10	6	42	22	74	84	106	85	138	108	170	210	202	206	234	248
11	9	43	136	75	138	107	58	139	224	171	109	203	95	235	231
12	17	44	96	76	145	108	168	140	166	172	184	204	213	236	221
13	10	45	38	77	29	109	139	141	195	173	115	205	186	237	235
14	18	46	67	78	43	110	99	142	169	174	167	206	111	238	222
15	128	47	41	79	98	111	86	143	59	175	225	207	227	239	237
16	12	48	144	80	88	112	60	144	114	176	157	208	214	240	243
17	33	49	28	81	140	113	89	145	156	177	110	209	188	241	238
18	20	50	69	82	30	114	196	146	87	178	117	210	217	242	245

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19	34	51	42	83	146	115	141	147	197	179	212	211	229	243	127
20	24	52	49	84	71	116	101	148	116	180	171	212	159	244	246
21	65	53	160	85	161	117	147	149	170	181	226	213	119	245	249
22	36	54	70	86	45	118	176	150	61	182	216	214	218	246	250
23	7	55	131	87	100	119	142	151	177	183	158	215	230	247	191
24	129	56	44	88	51	120	90	152	91	184	118	216	233	248	252
25	66	57	73	89	148	121	200	153	198	185	173	217	175	249	223
26	11	58	192	90	46	122	31	154	172	186	121	218	123	250	239
27	40	59	50	91	75	123	149	155	120	187	199	219	220	251	247
28	68	60	74	92	104	124	102	156	201	188	179	220	183	252	251
29	19	61	52	93	162	125	105	157	62	189	228	221	234	253	253
30	13	62	15	94	53	126	163	158	143	190	122	222	125	254	254
31	130	63	133	95	193	127	92	159	103	191	174	223	241	255	255

[0146] Sequence Q24, having a sequence length of 128:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 64, 6, 9, 17, 10, 18, 12, 33, 20, 34, 24, 65, 36, 7, 66, 11, 40, 68, 19, 13, 48, 14, 72, 21, 35, 26, 80, 37, 25, 22, 96, 38, 67, 41, 28, 69, 42, 49, 70, 44, 73, 50, 74, 52, 15, 81, 23, 76, 82, 56, 27, 97, 39, 84, 29, 43, 98, 88, 30, 71, 45, 100, 51, 46, 75, 104, 53, 77, 54, 83, 57, 112, 78, 85, 58, 99, 86, 60, 89, 101, 90, 31, 102, 105, 92, 47, 106, 55, 113, 79, 108, 59, 114, 87, 116, 61, 91, 120, 62, 103, 93, 107, 94, 109, 115, 110, 117, 118, 121, 122, 63, 124, 95, 111, 119, 123, 125, 126, 127]

[0147] Table Q24, having a sequence length of 128:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	16	33	32	21	48	44	64	43	80	112	96	55	112	109
1	1	17	20	33	35	49	73	65	98	81	78	97	113	113	115
2	2	18	34	34	26	50	50	66	88	82	85	98	79	114	110
3	4	19	24	35	80	51	74	67	30	83	58	99	108	115	117
4	8	20	65	36	37	52	52	68	71	84	99	100	59	116	118
5	16	21	36	37	25	53	15	69	45	85	86	101	114	117	121
6	32	22	7	38	22	54	81	70	100	86	60	102	87	118	122
7	3	23	66	39	96	55	23	71	51	87	89	103	116	119	63
8	5	24	11	40	38	56	76	72	46	88	101	104	61	120	124

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9	64	25	40	41	67	57	82	74	75	86	90	105	91	121	95
10	6	26	68	43	41	58	56	78	104	60	31	106	120	122	111
11	9	27	19	45	28	59	27	79	53	91	102	107	62	123	119
12	17	28	13	44	69	60	97	76	77	92	105	108	103	124	123
13	10	29	48	45	42	61	39	77	54	93	92	109	93	125	125
14	18	30	14	46	49	62	84	78	83	94	47	110	107	126	126
15	12	31	72	47	70	63	29	79	57	95	106	111	94	127	127

[0148] Sequence Q25, having a sequence length of 64:

[0, 1, 2, 4, 8, 16, 32, 3, 5, 6, 9, 17, 10, 18, 12, 33, 20, 34, 24, 36, 7, 11, 40, 19, 13, 48, 14, 21, 35, 26, 37, 25, 22, 38, 41, 28, 42, 49, 44, 50, 52, 15, 23, 56, 27, 39, 29, 43, 30, 45, 51, 46, 53, 54, 57, 58, 60, 31, 47, 55, 59, 61, 62, 63]

[0149] Table Q25, having a sequence length of 64:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	8	5	16	20	24	13	32	22	48	52	96	30	56	60
1	1	9	6	17	34	25	48	33	38	81	15	49	45	57	31
2	2	10	9	18	24	26	14	34	41	82	23	50	51	58	47
3	4	11	17	19	36	27	21	35	28	83	56	51	46	59	55
4	8	12	10	20	7	28	35	36	42	84	27	52	53	60	59
5	16	13	18	21	11	29	26	37	49	85	39	53	54	61	61
6	32	14	12	22	40	30	37	38	44	86	29	54	57	62	62
7	3	15	33	23	19	31	25	39	50	87	43	55	58	63	63

[0150] Sequence Z21, having a sequence length of 1024:

[0, 1, 2, 7, 3, 8, 10, 24, 4, 11, 13, 28, 16, 32, 35, 76, 5, 12, 14, 31, 19, 38, 47, 80, 21, 46, 42, 87, 57, 95, 101, 167, 6, 17, 20, 40, 23, 45, 51, 89, 29, 55, 59, 96, 69, 108, 115, 177, 34, 61, 73, 112, 75, 123, 130, 190, 86, 133, 143, 210, 148, 218, 235, 327, 9, 22, 26, 54, 30, 58, 64, 103, 36, 71, 74, 116, 82, 126, 138, 197, 44, 79, 84, 131, 91, 141, 147, 214, 99, 149, 162, 228, 176, 242, 259, 364, 49, 88, 97, 146, 111, 154, 172, 239, 121, 173, 186, 257, 198, 271, 278, 369, 134, 192, 212, 273, 216, 283, 300, 401, 233, 307, 312, 417, 333, 435, 460, 585, 15, 25, 33, 68, 39, 77, 81, 137, 48, 83, 92, 145, 100, 153, 161, 236, 56, 93, 102, 159, 113, 168, 178, 254, 125, 187, 196, 266, 213, 277, 298, 394, 62, 107, 122, 175, 127, 189, 201, 274, 144, 207, 217, 286, 232, 306, 314, 416, 160, 221, 240, 309, 256,

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322, 340, 433, 272, 348, 367, 453, 382, 471, 505, 619, 72, 124, 140, 205, 151, 215, 231, 308, 165, 234, 252, 320, 263, 344, 358, 449, 180, 255, 268, 346, 284, 366, 381, 473, 296, 390, 407, 486, 421, 519, 529, 639, 199, 275, 290, 379, 310, 392, 411, 510, 332, 412, 434, 522, 459, 535, 560, 670, 350, 448, 461, 552, 480, 583, 590, 695, 508, 593, 611, 707, 628, 728, 746, 816, 18, 37, 41, 90, 50, 94, 104, 166, 53, 105, 118, 184, 128, 200, 211, 293, 63, 119, 129, 208, 142, 206, 222, 303, 155, 223, 238, 311, 253, 330, 339, 432, 66, 139, 152, 209, 164, 226, 241, 323, 174, 249, 262, 345, 267, 355, 375, 468, 183, 265, 289, 363, 292, 387, 399, 484, 315, 406, 423, 518, 446, 530, 555, 665, 78, 169, 170, 251, 181, 258, 276, 361, 191, 288, 285, 386, 304, 400, 410, 513, 237, 297, 326, 403, 329, 420, 436, 528, 357, 447, 464, 550, 481, 573, 589, 699, 264, 325, 334, 431, 362, 452, 466, 561, 380, 478, 494, 582, 512, 596, 610, 708, 402, 503, 520, 608, 531, 620, 647, 732, 557, 660, 671, 756, 677, 778, 796, 854, 85, 182, 188, 291, 227, 305, 317, 404, 248, 313, 331, 428, 349, 444, 462, 568, 261, 347, 356, 451, 368, 467, 483, 586, 391, 491, 511, 595, 526, 612, 627, 731, 295, 365, 388, 482, 395, 501, 514, 609, 427, 521, 533, 624, 558, 648, 666, 755, 445, 546, 574, 662, 587, 673, 693, 777, 604, 701, 706, 800, 726, 804, 813, 881, 324, 389, 418, 523, 443, 534, 554, 649, 465, 567, 584, 672, 592, 678, 704, 780, 498, 588, 606, 694, 614, 705, 723, 803, 638, 727, 745, 821, 767, 834, 845, 913, 524, 616, 635, 720, 664, 730, 750, 824, 676, 754, 771, 842, 788, 850, 865, 926, 684, 776, 794, 860, 809, 870, 878, 935, 818, 885, 892, 946, 909, 954, 959, 988, 27, 43, 52, 98, 60, 106, 110, 193, 65, 114, 120, 202, 136, 219, 224, 338, 67, 135, 132, 220, 158, 243, 245, 354, 163, 260, 282, 370, 301, 393, 408, 532, 70, 156, 157, 246, 179, 280, 287, 383, 194, 302, 318, 424, 319, 422, 440, 536, 203, 321, 341, 437, 359, 455, 476, 562, 371, 469, 495, 579, 497, 599, 613, 735, 109, 171, 185, 294, 204, 328, 335, 426, 229, 343, 351, 454, 377, 475, 500, 570, 250, 353, 372, 470, 396, 496, 487, 594, 425, 488, 506, 615, 545, 632, 656, 752, 269, 384, 409, 490, 415, 515, 527, 625, 439, 544, 563, 645, 580, 667, 675, 775, 457, 559, 578, 674, 607, 685, 709, 799, 634, 719, 729, 806, 749, 819, 840, 905, 117, 195, 225, 342, 244, 352, 378, 477, 270, 373, 397, 489, 419, 507, 517, 621, 281, 405, 414, 516, 441, 541, 553, 640, 456, 564, 571, 669, 597, 683, 703, 779, 316, 430, 438, 556, 474, 575, 572, 679, 492, 591, 603, 698, 630, 716, 725, 805, 509, 617, 633, 717, 650, 740, 747, 825, 659, 753, 770, 837, 786, 852, 863, 925, 337, 463, 479, 598, 485, 605, 626, 712, 539, 631, 644, 738, 653, 744, 765, 833, 547, 651, 658, 748, 682, 769, 781, 847, 702, 787, 802, 866, 812, 877, 888, 942, 565, 687, 690, 772, 710, 791, 807, 871, 722, 810, 822, 884, 838, 894, 908, 953, 758, 829, 841, 901, 856, 912, 919, 962, 867, 922, 931, 969, 939, 975, 980, 1002, 150, 230, 247, 374, 279, 398, 413, 525, 299, 429, 442, 543, 458, 569, 577, 689, 336, 450, 472, 581, 493, 600, 602, 700, 504, 618, 636, 721, 646, 741, 751, 826, 360, 499, 502, 601, 538, 623, 637, 736, 542, 643, 655, 743, 663, 764, 773, 846, 548, 661, 681, 766, 696, 784, 797, 864, 718, 801, 811, 876, 828, 889, 903, 949, 376, 537, 540, 641, 549, 652, 668, 762, 576, 680, 692, 774, 713, 793, 808, 874, 629, 697, 714, 798, 724, 817, 827, 886, 760, 830, 844, 904, 855, 915, 920, 964, 654, 734, 742,

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823, 761, 836, 849, 906, 783, 851, 862, 916, 873, 928, 934, 971, 795, 868, 880, 929, 890, 936, 944, 978, 902, 948, 956, 984, 963, 990, 994, 1009, 385, 551, 566, 688, 622, 691, 711, 792, 642, 715, 737, 820, 757, 832, 843, 899, 657, 739, 759, 835, 768, 848, 857, 914, 785, 861, 872, 924, 887, 932, 941, 977, 686, 763, 782, 858, 789, 869, 875, 927, 815, 883, 891, 937, 897, 945, 951, 983, 839, 895, 900, 947, 910, 955, 960, 989, 921, 965, 968, 995, 973, 998, 1000, 1014, 733, 790, 814, 882, 831, 893, 896, 943, 853, 898, 907, 952, 917, 957, 966, 992, 859, 911, 918, 961, 930, 967, 972, 997, 938, 974, 979, 1001, 985, 1004, 1006, 1017, 879, 923, 933, 970, 940, 976, 981, 1003, 950, 982, 986, 1005, 991, 1007, 1010, 1018, 958, 987, 993, 1008, 996, 1011, 1012, 1019, 999, 1013, 1015, 1020, 1016, 1021, 1022, 1023]

[0151] Table Z21, having a sequence length of 1024:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	128	15	256	18	384	85	512	27	640	117	768	150	896	385
1	1	129	25	257	37	385	182	513	43	641	195	769	230	897	551
2	2	130	33	258	41	386	188	514	52	642	225	770	247	898	566
3	7	131	68	259	90	387	291	515	98	643	342	771	374	899	688
4	3	132	39	260	50	388	227	516	60	644	244	772	279	900	622
5	8	133	77	261	94	389	305	517	106	645	352	773	398	901	691
6	10	134	81	262	104	390	317	518	110	646	378	774	413	902	711
7	24	135	137	263	166	391	404	519	193	647	477	775	525	903	792
8	4	136	48	264	53	392	248	520	65	648	270	776	299	904	642
9	11	137	83	265	105	393	313	521	114	649	373	777	429	905	715
10	13	138	92	266	118	394	331	522	120	650	397	778	442	906	737
11	28	139	145	267	184	395	428	523	202	651	489	779	543	907	820
12	16	140	100	268	128	396	349	524	136	652	419	780	458	908	757
13	32	141	153	269	200	397	444	525	219	653	507	781	569	909	832
14	35	142	161	270	211	398	462	526	224	654	517	782	577	910	843
15	76	143	236	271	293	399	568	527	338	655	621	783	689	911	899
16	5	144	56	272	63	400	261	528	67	656	281	784	336	912	657
17	12	145	93	273	119	401	347	529	135	657	405	785	450	913	739
18	14	146	102	274	129	402	356	530	132	658	414	786	472	914	759
19	31	147	159	275	208	403	451	531	220	659	516	787	581	915	835
20	19	148	113	276	142	404	368	532	158	660	441	788	493	916	768

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21	38	149	168	277	206	405	467	533	243	661	541	789	600	917	848
22	47	150	178	278	222	406	483	534	245	660	553	790	602	918	857
23	80	151	254	279	303	407	586	535	354	663	640	791	700	919	914
24	21	152	125	280	155	408	391	536	163	664	456	792	504	920	785
25	46	153	187	281	223	409	491	537	260	665	564	793	618	921	861
26	42	154	196	282	238	410	511	538	282	666	571	794	636	922	872
27	87	155	266	283	311	411	595	539	370	667	669	795	721	923	924
28	57	156	213	284	253	412	526	540	301	668	597	796	646	924	887
29	95	157	277	285	330	413	612	541	393	669	683	797	741	925	932
30	101	158	298	286	339	414	627	542	408	670	703	798	751	926	941
31	167	159	394	287	432	415	731	543	532	671	779	799	826	927	977
32	6	160	62	288	66	416	295	544	70	672	316	800	360	928	686
33	17	161	107	289	139	417	365	545	156	673	430	801	499	929	763
34	20	162	122	290	152	418	388	546	157	674	438	802	502	930	782
35	40	163	175	291	209	419	482	547	246	675	556	803	601	931	858
36	23	164	127	292	164	420	395	548	179	676	474	804	538	932	789
37	45	165	189	293	226	421	501	549	280	677	575	805	623	933	869
38	51	166	201	294	241	422	514	550	287	678	572	806	637	934	875
39	89	167	274	295	323	423	609	551	383	679	679	807	736	935	927
40	29	168	144	296	174	424	427	552	194	680	492	808	542	936	815
41	55	169	207	297	249	425	521	553	302	681	591	809	643	937	883
42	59	170	217	298	262	426	533	554	318	682	603	810	655	938	891
43	96	171	286	299	345	427	624	555	424	683	698	811	743	939	937
44	69	172	232	300	267	428	558	556	319	684	630	812	663	940	897
45	108	173	306	301	355	429	648	557	422	685	716	813	764	941	945
46	115	174	314	302	375	430	666	558	440	686	725	814	773	942	951
47	177	175	416	303	468	431	755	559	536	687	805	815	846	943	983
48	34	176	160	304	183	432	445	560	203	688	509	816	548	944	839
49	61	177	221	305	265	433	546	561	321	689	617	817	661	945	895
50	73	178	240	306	289	434	574	562	341	690	633	818	681	946	900
51	112	179	309	307	363	435	662	563	437	691	717	819	766	947	947
52	75	180	256	308	292	436	587	564	359	692	650	820	696	948	910
53	123	181	322	309	387	437	673	565	455	693	740	821	784	949	955
54	130	182	340	310	399	438	693	566	476	694	747	822	797	950	960
55	190	183	433	311	484	439	777	567	562	695	825	823	864	951	989
56	86	184	272	312	315	440	604	568	371	696	659	824	718	952	921
57	133	185	348	313	406	441	701	569	469	697	753	825	801	953	965

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58	143	186	367	314	423	442	706	570	495	698	770	826	811	954	968
59	210	187	453	315	518	443	800	571	579	699	837	827	876	955	995
60	148	188	382	316	446	444	726	572	497	700	786	828	828	956	973
61	218	189	471	317	530	445	804	573	599	701	852	829	889	957	998
62	235	190	505	318	555	446	813	574	613	702	863	830	903	958	1000
63	327	191	619	319	665	447	881	575	735	703	925	831	949	959	1014
64	9	192	72	320	78	448	324	576	109	704	337	832	376	960	733
65	22	193	124	321	169	449	389	577	171	705	463	833	537	961	790
66	26	194	140	322	170	450	418	578	185	706	479	834	540	962	814
67	54	195	205	323	251	451	523	579	294	707	598	835	641	963	882
68	30	196	151	324	181	452	443	580	204	708	485	836	549	964	831
69	58	197	215	325	258	453	534	581	328	709	605	837	652	965	893
70	64	198	231	326	276	454	554	582	335	710	626	838	668	966	896
71	103	199	308	327	361	455	649	583	426	711	712	839	762	967	943
72	36	200	165	328	191	456	465	584	229	712	539	840	576	968	853
73	71	201	234	329	288	457	567	585	343	713	631	841	680	969	898
74	74	202	252	330	285	458	584	586	351	714	644	842	692	970	907
75	116	203	320	331	386	459	672	587	454	715	738	843	774	971	952
76	82	204	263	332	304	460	592	588	377	716	653	844	713	972	917
77	126	205	344	333	400	461	678	589	475	717	744	845	793	973	957
78	138	206	358	334	410	462	704	590	500	718	765	846	808	974	966
79	197	207	449	335	513	463	780	591	570	719	833	847	874	975	992
80	44	208	180	336	237	464	498	592	250	720	547	848	629	976	859
81	79	209	255	337	297	465	588	593	353	721	651	849	697	977	911
82	84	210	268	338	326	466	606	594	372	722	658	850	714	978	918
83	131	211	346	339	403	467	694	595	470	723	748	851	798	979	961
84	91	212	284	340	329	468	614	596	396	724	682	852	724	980	930
85	141	213	366	341	420	469	705	597	496	725	769	853	817	981	967
86	147	214	381	342	436	470	723	598	487	726	781	854	827	982	972
87	214	215	473	343	528	471	803	599	594	727	847	855	886	983	997
88	99	216	296	344	357	472	638	600	425	728	702	856	760	984	938
89	149	217	390	345	447	473	727	601	488	729	787	857	830	985	974
90	162	218	407	346	464	474	745	602	506	730	802	858	844	986	979
91	228	219	486	347	550	475	821	603	615	731	866	859	904	987	1001
92	176	220	421	348	481	476	767	604	545	732	812	860	855	988	985
93	242	221	519	349	573	477	834	605	632	733	877	861	915	989	1004
94	259	222	529	350	589	478	845	606	656	734	888	862	920	990	1006

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95	364	223	639	351	699	479	913	607	752	335	942	863	964	991	1017
96	49	224	199	352	264	480	524	608	269	336	565	864	654	992	879
97	88	225	275	353	325	481	616	609	384	337	687	865	734	993	923
98	97	226	290	354	334	482	635	610	409	338	690	866	742	994	933
99	146	227	379	355	431	483	720	611	490	339	772	867	823	995	970
100	111	228	310	356	362	484	664	612	415	340	710	868	761	996	940
101	154	229	392	357	452	485	730	613	515	341	791	869	836	997	976
102	172	230	411	358	466	486	750	614	527	342	807	870	849	998	981
103	239	231	510	359	561	487	824	615	625	343	871	871	906	999	1003
104	121	232	332	360	380	488	676	616	439	344	722	872	783	1000	950
105	173	233	412	361	478	489	754	617	544	345	810	873	851	1001	982
106	186	234	434	362	494	490	771	618	563	346	822	874	862	1002	986
107	257	235	522	363	582	491	842	619	645	347	884	875	916	1003	1005
108	198	236	459	364	512	492	788	620	580	348	838	876	873	1004	991
109	271	237	535	365	596	493	850	621	667	349	894	877	928	1005	1007
110	278	238	560	366	610	494	865	622	675	350	908	878	934	1006	1010
111	369	239	670	367	708	495	926	623	775	351	953	879	971	1007	1018
112	134	240	350	368	402	496	684	624	457	352	758	880	795	1008	958
113	192	241	448	369	503	497	776	625	559	353	829	881	868	1009	987
114	212	242	461	370	520	498	794	626	578	354	841	882	880	1010	993
115	273	243	552	371	608	499	860	627	674	355	901	883	929	1011	1008
116	216	244	480	372	531	500	809	628	607	356	856	884	890	1012	996
117	283	245	583	373	620	501	870	629	685	357	912	885	936	1013	1011
118	300	246	590	374	647	502	878	630	709	358	919	886	944	1014	1012
119	401	247	695	375	732	503	935	631	799	359	962	887	978	1015	1019
120	233	248	508	376	557	504	818	632	634	360	867	888	902	1016	999
121	307	249	593	377	660	505	885	633	719	361	922	889	948	1017	1013
122	312	250	611	378	671	506	892	634	729	362	931	890	956	1018	1015
123	417	251	707	379	756	507	946	635	806	363	969	891	984	1019	1020
124	333	252	628	380	677	508	909	636	749	364	939	892	963	1020	1016
125	435	253	728	381	778	509	954	637	819	365	975	893	990	1021	1021
126	460	254	746	382	796	510	959	638	840	366	980	894	994	1022	1022
127	585	255	816	383	854	511	988	639	905	367	1002	895	1009	1023	1023

[0152] Sequence Z22, having a sequence length of 512:

[0, 1, 2, 7, 3, 8, 10, 24, 4, 11, 13, 27, 16, 31, 34, 69, 5, 12, 14, 30, 19, 37, 45, 73, 21, 44, 41, 80, 54, 88, 93, 145, 6, 17, 20, 39, 23, 43, 49, 82, 28, 52, 56, 89, 63, 99, 103, 154, 33, 57, 66, 101,

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68, 109, 116, 165, 79, 118, 126, 179, 131, 187, 198, 268, 9, 22, 26, 51, 29, 55, 60, 95, 35, 64, 67, 104, 75, 112, 121, 169, 42, 72, 77, 117, 84, 124, 130, 183, 91, 132, 141, 193, 153, 205, 216, 291, 47, 81, 90, 129, 100, 136, 149, 202, 107, 150, 161, 214, 170, 225, 232, 296, 119, 167, 181, 227, 185, 233, 247, 313, 196, 252, 257, 323, 273, 334, 347, 407, 15, 25, 32, 62, 38, 70, 74, 120, 46, 76, 85, 128, 92, 135, 140, 199, 53, 86, 94, 138, 102, 146, 155, 211, 111, 162, 168, 222, 182, 231, 246, 309, 58, 98, 108, 152, 113, 164, 173, 228, 127, 176, 186, 236, 195, 251, 259, 322, 139, 188, 203, 254, 213, 263, 276, 332, 226, 281, 294, 345, 301, 355, 369, 426, 65, 110, 123, 174, 133, 184, 194, 253, 143, 197, 209, 262, 219, 277, 287, 342, 156, 212, 224, 279, 234, 293, 300, 356, 244, 306, 318, 363, 326, 377, 385, 433, 171, 229, 239, 298, 255, 308, 320, 371, 272, 321, 333, 380, 346, 390, 398, 442, 283, 341, 348, 393, 358, 405, 412, 452, 370, 414, 422, 458, 430, 464, 469, 488, 18, 36, 40, 83, 48, 87, 96, 144, 50, 97, 105, 160, 114, 172, 180, 242, 59, 106, 115, 177, 125, 175, 189, 248, 137, 190, 201, 256, 210, 270, 275, 331, 61, 122, 134, 178, 142, 191, 204, 264, 151, 207, 218, 278, 223, 284, 297, 354, 159, 221, 238, 290, 241, 303, 311, 362, 260, 317, 327, 376, 339, 386, 395, 440, 71, 147, 148, 208, 157, 215, 230, 288, 166, 237, 235, 302, 249, 312, 319, 374, 200, 245, 267, 315, 269, 325, 335, 384, 286, 340, 350, 392, 359, 402, 411, 453, 220, 266, 274, 330, 289, 344, 352, 399, 299, 357, 365, 404, 373, 416, 421, 459, 314, 368, 378, 419, 387, 427, 434, 467, 396, 437, 443, 473, 447, 478, 482, 496, 78, 158, 163, 240, 192, 250, 261, 316, 206, 258, 271, 329, 282, 337, 349, 401, 217, 280, 285, 343, 295, 353, 361, 408, 307, 364, 372, 415, 383, 423, 429, 466, 243, 292, 304, 360, 310, 367, 375, 420, 328, 379, 388, 428, 397, 435, 441, 472, 338, 391, 403, 438, 409, 445, 450, 477, 417, 454, 457, 483, 462, 485, 487, 501, 265, 305, 324, 381, 336, 389, 394, 436, 351, 400, 406, 444, 413, 448, 455, 479, 366, 410, 418, 451, 424, 456, 461, 484, 432, 463, 468, 490, 474, 492, 494, 505, 382, 425, 431, 460, 439, 465, 470, 491, 446, 471, 475, 493, 480, 495, 498, 506, 449, 476, 481, 497, 486, 499, 500, 507, 489, 502, 503, 508, 504, 509, 510, 511]

[0153] Table Z22, having a sequence length of 512:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	64	9	128	15	192	65	256	18	320	71	384	78	448	265
1	1	65	22	129	25	193	110	257	36	321	147	385	158	449	305
2	2	66	26	130	32	194	123	258	40	322	148	386	163	450	324
3	7	67	51	131	62	195	174	259	83	323	208	387	240	451	381
4	3	68	29	132	38	196	133	260	48	324	157	388	192	452	336

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5	8	69	55	133	70	192	184	261	87	325	215	389	250	453	389
6	10	78	60	134	74	198	194	262	96	326	230	390	261	454	394
7	24	71	95	135	120	199	253	263	144	327	288	391	316	455	436
8	4	72	35	136	46	200	143	264	50	328	166	392	206	456	351
9	11	73	64	137	76	201	197	265	97	329	237	393	258	457	400
10	13	74	67	138	85	202	209	266	105	330	235	394	271	458	406
11	27	75	104	139	128	203	262	267	160	331	302	395	329	459	444
12	16	76	75	140	92	204	219	268	114	332	249	396	282	460	413
13	31	77	112	141	135	205	277	269	172	333	312	397	337	461	448
14	34	78	121	142	140	206	287	270	180	334	319	398	349	462	455
15	69	79	169	143	199	207	342	271	242	335	374	399	401	463	479
16	5	80	42	144	53	208	156	272	59	336	200	400	217	464	366
17	12	81	72	145	86	209	212	273	106	337	245	401	280	465	410
18	14	82	77	146	94	210	224	274	115	338	267	402	285	466	418
19	30	83	117	147	138	211	279	275	177	339	315	403	343	467	451
20	19	84	84	148	102	212	234	276	125	340	269	404	295	468	424
21	37	85	124	149	146	213	293	277	175	341	325	405	353	469	456
22	45	86	130	150	155	214	300	278	189	342	335	406	361	470	461
23	73	87	183	151	211	215	356	279	248	343	384	407	408	471	484
24	21	88	91	152	111	216	244	280	137	344	286	408	307	472	432
25	44	89	132	153	162	217	306	281	190	345	340	409	364	473	463
26	41	90	141	154	168	218	318	282	201	346	350	410	372	474	468
27	80	91	193	155	222	219	363	283	256	347	392	411	415	475	490
28	54	92	153	156	182	220	326	284	210	348	359	412	383	476	474
29	88	93	205	157	231	221	377	285	270	349	402	413	423	477	492
30	93	94	216	158	246	222	385	286	275	350	411	414	429	478	494
31	145	95	291	159	309	223	433	287	331	351	453	415	466	479	505
32	6	96	47	160	58	224	171	288	61	352	220	416	243	480	382
33	17	97	81	161	98	225	229	289	122	353	266	417	292	481	425
34	20	98	90	162	108	226	239	290	134	354	274	418	304	482	431
35	39	99	129	163	152	227	298	291	178	355	330	419	360	483	460
36	23	100	100	164	113	228	255	292	142	356	289	420	310	484	439
37	43	101	136	165	164	229	308	293	191	357	344	421	367	485	465
38	49	102	149	166	173	230	320	294	204	358	352	422	375	486	470
39	82	103	202	167	228	231	371	295	264	359	399	423	420	487	491
40	28	104	107	168	127	232	272	296	151	360	299	424	328	488	446
41	52	105	150	169	176	233	321	297	207	361	357	425	379	489	471

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42	56	105	161	170	186	234	333	398	218	362	365	426	388	490	475
43	89	107	214	171	236	265	380	429	278	363	404	427	428	491	493
44	63	108	170	172	195	236	346	400	223	364	373	428	397	492	480
45	99	109	225	173	251	247	390	401	284	365	416	429	435	493	495
46	103	110	232	174	259	238	398	402	297	366	421	430	441	494	498
47	154	111	296	175	322	249	442	403	354	367	459	431	472	495	506
48	33	112	119	176	139	240	283	404	159	368	314	432	338	496	449
49	57	113	167	177	188	241	341	405	221	369	368	433	391	497	476
50	66	114	181	178	203	242	348	406	238	370	378	434	403	498	481
51	101	115	227	179	254	243	393	407	290	371	419	435	438	499	497
52	68	116	185	180	213	244	358	408	241	372	387	436	409	500	486
53	109	117	233	181	263	245	405	409	303	373	427	437	445	501	499
54	116	118	247	182	276	246	412	410	311	374	434	438	450	502	500
55	165	119	313	183	332	247	452	411	362	375	467	439	477	503	507
56	79	120	196	184	226	248	370	412	260	376	396	440	417	504	489
57	118	121	252	185	281	249	414	413	317	377	437	441	454	505	502
58	126	122	257	186	294	250	422	414	327	378	443	442	457	506	503
59	179	123	323	187	345	251	458	415	376	379	473	443	483	507	508
60	131	124	273	188	301	252	430	416	339	380	447	444	462	508	504
61	187	125	334	189	355	253	464	417	386	381	478	445	485	509	509
62	198	126	347	190	369	254	469	418	395	382	482	446	487	510	510
63	268	127	407	191	426	255	488	419	440	383	496	447	501	511	511

[0154] Sequence Z23, having a sequence length of 256:

[0, 1, 2, 7, 3, 8, 10, 23, 4, 11, 13, 26, 16, 30, 33, 62, 5, 12, 14, 29, 18, 35, 42, 65, 20, 41, 38, 71, 49, 77, 82, 122, 6, 17, 19, 37, 22, 40, 45, 73, 27, 47, 51, 78, 56, 86, 90, 128, 32, 52, 59, 88, 61, 94, 99, 134, 70, 101, 107, 143, 112, 150, 157, 194, 9, 21, 25, 46, 28, 50, 54, 84, 34, 57, 60, 91, 67, 97, 104, 137, 39, 64, 69, 100, 74, 106, 111, 146, 80, 113, 120, 152, 127, 161, 167, 203, 44, 72, 79, 110, 87, 116, 124, 159, 92, 125, 131, 166, 138, 171, 177, 206, 102, 135, 144, 173, 148, 178, 184, 213, 155, 186, 190, 218, 196, 222, 227, 243, 15, 24, 31, 55, 36, 63, 66, 103, 43, 68, 75, 109, 81, 115, 119, 158, 48, 76, 83, 117, 89, 123, 129, 163, 96, 132, 136, 169, 145, 176, 183, 212, 53, 85, 93, 126, 98, 133, 140, 174, 108, 142, 149, 180, 154, 185, 191, 217, 118, 151, 160, 188, 165, 193, 197, 220, 172, 200, 205, 225, 209, 229, 233, 247, 58, 95, 105, 141, 114, 147, 153, 187, 121, 156, 162, 192, 168, 198, 202, 224, 130, 164, 170, 199, 179, 204, 208, 230, 182, 210, 214, 232, 219, 236, 238, 249, 139, 175, 181, 207, 189, 211, 215, 235, 195, 216, 221, 237, 226, 239, 241, 250, 201, 223, 228, 240, 231, 242, 244, 251, 234, 245, 246, 252, 248, 253, 254, 255]

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[0155] Table Z23, having a sequence length of 256:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	32	6	64	9	96	44	128	15	160	53	192	58	224	139
1	1	33	17	65	21	97	72	129	24	161	85	193	95	225	175
2	2	34	19	66	25	98	79	130	31	162	93	194	105	226	181
3	7	35	37	67	46	99	110	131	55	163	126	195	141	227	207
4	3	36	22	68	28	100	87	132	36	164	98	196	114	228	189
5	8	37	40	69	50	101	116	133	63	165	133	197	147	229	211
6	10	38	45	70	54	102	124	134	66	166	140	198	153	230	215
7	23	39	73	71	84	103	159	135	103	167	174	199	187	231	235
8	4	40	27	72	34	104	92	136	43	168	108	200	121	232	195
9	11	41	47	73	57	105	125	137	68	169	142	201	156	233	216
10	13	42	51	74	60	106	131	138	75	170	149	202	162	234	221
11	26	43	78	75	91	107	166	139	109	171	180	203	192	235	237
12	16	44	56	76	67	108	138	140	81	172	154	204	168	236	226
13	30	45	86	77	97	109	171	141	115	173	185	205	198	237	239
14	33	46	90	78	104	110	177	142	119	174	191	206	202	238	241
15	62	47	128	79	137	111	206	143	158	175	217	207	224	239	250
16	5	48	32	80	39	112	102	144	48	176	118	208	130	240	201
17	12	49	52	81	64	113	135	145	76	177	151	209	164	241	223
18	14	50	59	82	69	114	144	146	83	178	160	210	170	242	228
19	29	51	88	83	100	115	173	147	117	179	188	211	199	243	240
20	18	52	61	84	74	116	148	148	89	180	165	212	179	244	231
21	35	53	94	85	106	117	178	149	123	181	193	213	204	245	242
22	42	54	99	86	111	118	184	150	129	182	197	214	208	246	244
23	65	55	134	87	146	119	213	151	163	183	220	215	230	247	251
24	20	56	70	88	80	120	155	152	96	184	172	216	182	248	234
25	41	57	101	89	113	121	186	153	132	185	200	217	210	249	245
26	38	58	107	90	120	122	190	154	136	186	205	218	214	250	246
27	71	59	143	91	152	123	218	155	169	187	225	219	232	251	252
28	49	60	112	92	127	124	196	156	145	188	209	220	219	252	248
29	77	61	150	93	161	125	222	157	176	189	229	221	236	253	253
30	82	62	157	94	167	126	227	158	183	190	233	222	238	254	254

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31	122	63	194	95	203	127	243	159	212	191	247	223	249	255	255

[0156] Sequence Z24, having a sequence length of 128:

[0, 1, 2, 7, 3, 8, 10, 22, 4, 11, 13, 24, 15, 28, 30, 53, 5, 12, 14, 27, 17, 32, 38, 55, 19, 37, 34, 59, 43, 63, 67, 90, 6, 16, 18, 33, 21, 36, 40, 61, 25, 42, 45, 64, 48, 69, 72, 94, 29, 46, 50, 71, 52, 75, 77, 96, 58, 79, 83, 100, 86, 104, 107, 119, 9, 20, 23, 41, 26, 44, 47, 68, 31, 49, 51, 73, 56, 76, 81, 98, 35, 54, 57, 78, 62, 82, 85, 102, 66, 87, 89, 105, 93, 109, 111, 121, 39, 60, 65, 84, 70, 88, 91, 108, 74, 92, 95, 110, 99, 112, 114, 122, 80, 97, 101, 113, 103, 115, 116, 123, 106, 117, 118, 124, 120, 125, 126, 127]

[0157] Table Z24, having a length of 128:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	16	5	32	6	48	29	64	9	80	35	96	39	112	80
1	1	17	12	33	16	49	46	65	20	81	54	97	60	113	97
2	2	18	14	34	18	50	50	66	23	82	57	98	65	114	101
3	7	19	27	35	33	51	71	67	41	83	78	99	84	115	113
4	3	20	17	36	21	52	52	68	26	84	62	100	70	116	103
5	8	21	32	37	36	53	75	69	44	85	82	101	88	117	115
6	10	22	38	38	40	54	77	70	47	86	85	102	91	118	116
7	22	23	55	39	61	55	96	71	68	87	102	103	108	119	123
8	4	24	19	40	25	56	58	72	31	88	66	104	74	120	106
9	11	25	37	41	42	57	79	73	49	89	87	105	92	121	117
10	13	26	34	42	45	58	83	74	51	90	89	106	95	122	118
11	24	27	59	43	64	59	100	75	73	91	105	107	110	123	124
12	15	28	43	44	48	60	86	76	56	92	93	108	99	124	120
13	28	29	63	45	69	61	104	77	76	93	109	109	112	125	125
14	30	30	67	46	72	62	107	78	81	94	111	110	114	126	126
15	53	31	90	47	94	63	119	79	98	95	121	111	122	127	127

[0158] Sequence Z25, having a sequence length of 64:

[0, 1, 2, 7, 3, 8, 9, 20, 4, 10, 12, 21, 14, 24, 26, 41, 5, 11, 13, 23, 16, 27, 32, 42, 18, 31, 29, 44, 35, 46, 48, 57, 6, 15, 17, 28, 19, 30, 33, 45, 22, 34, 36, 47, 38, 49, 51, 58, 25, 37, 39, 50, 40, 52, 53, 59, 43, 54, 55, 60, 56, 61, 62, 63]

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[0159] Table Z25, having a sequence length of 64:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	8	4	16	5	24	18	32	6	40	22	48	25	56	43
1	1	9	10	17	11	25	31	33	15	41	34	49	37	57	54
2	2	10	12	18	13	26	29	34	17	42	36	50	39	58	55
3	7	11	21	19	23	27	44	35	28	43	47	51	50	59	60
4	3	12	14	20	16	28	35	36	19	44	38	52	40	60	56
5	8	13	24	21	27	29	46	37	30	45	49	53	52	61	61
6	9	14	26	22	32	30	48	38	33	46	51	54	53	62	62
7	20	15	41	23	42	31	57	39	45	47	58	55	59	63	63

[0160] Sixth group of sequences (a criterion that considers optimal performance of List 4).

[0161] Sequence Q26, having a sequence length of 1024:

[0, 1, 4, 8, 2, 16, 32, 6, 64, 512, 3, 12, 5, 18, 128, 9, 33, 17, 10, 36, 66, 24, 256, 20, 65, 34, 7, 129, 40, 11, 72, 132, 513, 19, 48, 68, 13, 257, 14, 21, 130, 26, 80, 35, 258, 38, 136, 96, 22, 516, 37, 25, 67, 264, 41, 144, 28, 69, 260, 49, 74, 160, 42, 520, 134, 70, 44, 81, 272, 15, 50, 131, 192, 73, 23, 514, 137, 52, 288, 76, 133, 82, 27, 97, 259, 39, 528, 56, 138, 84, 29, 145, 261, 43, 320, 544, 98, 140, 265, 30, 88, 146, 262, 100, 518, 161, 71, 45, 273, 51, 148, 266, 576, 46, 75, 104, 164, 193, 53, 162, 515, 384, 268, 77, 152, 54, 85, 524, 289, 112, 274, 57, 78, 135, 517, 194, 83, 290, 168, 276, 86, 530, 58, 139, 322, 196, 101, 640, 60, 147, 176, 280, 99, 89, 521, 292, 141, 321, 200, 90, 545, 31, 142, 102, 263, 529, 47, 386, 105, 296, 208, 522, 153, 92, 149, 267, 548, 163, 324, 113, 150, 578, 165, 55, 304, 106, 275, 536, 269, 385, 154, 768, 79, 108, 224, 166, 532, 59, 169, 114, 195, 577, 328, 270, 277, 87, 546, 156, 116, 388, 519, 336, 291, 278, 197, 641, 61, 177, 170, 552, 91, 281, 201, 198, 523, 62, 143, 294, 584, 172, 392, 103, 644, 120, 293, 282, 531, 352, 178, 202, 560, 323, 297, 93, 580, 107, 151, 209, 525, 284, 180, 400, 769, 94, 204, 298, 526, 326, 155, 533, 305, 109, 325, 642, 210, 184, 225, 538, 167, 300, 592, 115, 387, 329, 547, 110, 416, 770, 212, 271, 117, 550, 306, 157, 648, 226, 171, 330, 608, 337, 389, 534, 308, 216, 549, 121, 390, 537, 158, 279, 332, 579, 118, 173, 776, 338, 179, 553, 199, 353, 656, 283, 312, 540, 448, 228, 581, 393, 122, 181, 772, 232, 295, 561, 174, 394, 586, 63, 203, 672, 354, 554, 401, 340, 646, 124, 285, 582, 182, 299, 556, 240, 211, 593, 286, 344, 784, 396, 205, 527, 95, 418, 562, 185, 643, 213, 402, 704, 307, 327, 585, 356, 535, 206, 186, 649, 301, 111, 564, 302, 800, 360, 227, 588, 417, 159, 645, 404, 594, 309, 214, 539, 449, 331, 609, 119, 771,

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217, 188, 551, 229, 568, 333, 408, 650, 310, 596, 339, 420, 541, 218, 657, 368, 773, 123, 230, 555, 175, 832, 391, 313, 610, 241, 652, 450, 334, 777, 220, 542, 341, 600, 424, 314, 658, 183, 774, 233, 612, 355, 673, 125, 287, 583, 395, 557, 234, 785, 316, 345, 563, 187, 660, 452, 778, 403, 558, 342, 397, 587, 207, 616, 236, 676, 432, 705, 346, 565, 361, 674, 126, 242, 896, 357, 780, 405, 589, 215, 664, 398, 566, 303, 597, 358, 801, 419, 624, 456, 786, 348, 189, 569, 244, 590, 410, 647, 219, 706, 311, 595, 362, 802, 464, 680, 406, 788, 421, 598, 231, 570, 248, 651, 369, 834, 190, 708, 409, 613, 315, 572, 364, 659, 422, 335, 221, 688, 451, 792, 370, 611, 425, 601, 235, 804, 343, 653, 412, 833, 480, 712, 222, 602, 317, 543, 453, 654, 426, 614, 372, 775, 433, 559, 237, 898, 617, 347, 808, 243, 720, 454, 665, 318, 604, 376, 661, 428, 779, 238, 675, 359, 836, 458, 625, 399, 662, 677, 245, 567, 434, 816, 457, 618, 349, 787, 465, 781, 897, 363, 666, 407, 591, 127, 620, 246, 736, 436, 678, 571, 350, 681, 249, 626, 460, 707, 840, 411, 782, 365, 789, 440, 599, 374, 668, 628, 423, 900, 466, 848, 803, 250, 790, 371, 709, 191, 573, 689, 481, 682, 413, 603, 793, 366, 713, 468, 710, 429, 574, 655, 252, 806, 414, 684, 904, 373, 615, 482, 632, 805, 223, 794, 864, 427, 690, 472, 714, 835, 455, 809, 377, 605, 619, 435, 663, 721, 319, 796, 430, 692, 912, 239, 606, 716, 461, 810, 484, 838, 667, 378, 817, 621, 437, 837, 722, 247, 696, 380, 737, 679, 459, 812, 627, 488, 899, 841, 441, 622, 928, 351, 724, 783, 469, 629, 818, 438, 669, 462, 738, 683, 251, 842, 849, 496, 901, 820, 728, 467, 633, 902, 367, 670, 791, 442, 844, 630, 474, 685, 850, 483, 691, 711, 379, 865, 795, 415, 824, 960, 740, 253, 905, 634, 444, 693, 744, 485, 807, 686, 906, 470, 575, 715, 375, 866, 913, 473, 852, 636, 797, 431, 694, 811, 486, 752, 723, 798, 489, 856, 908, 254, 717, 607, 930, 476, 697, 725, 914, 439, 819, 839, 868, 492, 718, 698, 381, 813, 623, 814, 498, 872, 739, 929, 445, 671, 916, 821, 463, 726, 961, 843, 490, 631, 729, 700, 382, 741, 845, 920, 471, 822, 851, 932, 730, 497, 880, 635, 742, 443, 687, 903, 825, 475, 753, 962, 846, 732, 500, 853, 936, 826, 446, 695, 745, 867, 637, 487, 799, 907, 746, 828, 493, 857, 699, 964, 915, 477, 854, 909, 719, 504, 748, 944, 858, 873, 638, 478, 754, 869, 917, 727, 499, 910, 815, 870, 931, 255, 968, 860, 701, 756, 922, 491, 731, 823, 874, 976, 918, 502, 933, 743, 760, 881, 494, 702, 921, 827, 876, 934, 847, 505, 733, 963, 882, 937, 747, 383, 855, 924, 992, 734, 829, 965, 501, 938, 884, 945, 749, 859, 755, 479, 966, 830, 888, 940, 750, 871, 506, 970, 911, 757, 946, 969, 861, 977, 447, 875, 919, 639, 758, 948, 862, 761, 508, 972, 923, 877, 952, 886, 935, 978, 762, 503, 883, 703, 993, 925, 878, 980, 941, 764, 495, 926, 885, 994, 735, 939, 984, 967, 889, 947, 831, 507, 942, 751, 973, 996, 890, 949, 759, 892, 971, 1000, 953, 509, 863, 981, 950, 974, 763, 1008, 979, 879, 954, 986, 995, 891, 927, 510, 765, 956, 997, 982, 887, 985, 943, 998, 1001, 766, 988, 951, 1004, 893, 1010, 957, 975, 511, 1002, 894, 983, 1009, 955, 987, 1012, 958, 999, 1005, 989, 1016, 990, 1011, 767, 1003, 1014, 1006, 1017, 895, 1013, 991, 1018, 959, 1020, 1015, 1007, 1019, 1021, 1022, 1023]

[0162] Table Q26, having a sequence length of 1024:

Date Reçue/Date Received 2020-06-09

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequcnce number
0	0	128	289	256	526	384	609	512	335	640	427	768	492	896	479
1	1	129	112	257	326	385	119	513	221	641	690	769	718	897	966
2	4	130	274	258	155	386	771	514	688	642	472	770	698	898	830
3	8	131	57	259	533	387	217	515	451	643	714	771	381	899	888
4	2	132	78	260	305	388	188	516	792	644	835	772	813	900	940
5	16	133	135	261	109	389	551	517	370	645	455	773	623	901	750
6	32	134	517	262	325	390	229	518	611	646	809	774	814	902	871
7	6	135	194	263	642	391	568	519	425	647	377	775	498	903	506
8	64	136	83	264	210	392	333	520	601	648	605	776	872	904	970
9	512	137	290	265	184	393	408	521	235	649	619	777	739	905	911
10	3	138	168	266	225	394	650	522	804	650	435	778	929	906	757
11	12	139	276	267	538	395	310	523	343	651	663	779	445	907	946
12	5	140	86	268	167	396	596	524	653	652	721	780	671	908	969
13	18	141	530	269	300	397	339	525	412	653	319	781	916	909	861
14	128	142	58	270	592	398	420	526	833	654	796	782	821	910	977
15	9	143	139	271	115	399	541	527	480	655	430	783	463	911	447
16	33	144	322	272	387	400	218	528	712	656	692	784	726	912	875
17	17	145	196	273	329	401	657	529	222	657	912	785	961	913	919
18	10	146	101	274	547	402	368	530	602	658	239	786	843	914	639
19	36	147	640	275	110	403	773	531	317	659	606	787	490	915	758
20	66	148	60	276	416	404	123	532	543	660	716	788	631	916	948
21	24	149	147	277	770	405	230	533	453	661	461	789	729	917	862
22	256	150	176	278	212	406	555	534	654	662	810	790	700	918	761
23	20	151	280	279	271	407	175	535	426	663	484	791	382	919	508
24	65	152	99	280	117	408	832	536	614	664	838	792	741	920	972
25	34	153	89	281	550	409	391	537	372	665	667	793	845	921	923
26	7	154	521	282	306	410	313	538	775	666	378	794	920	922	877
27	129	155	292	283	157	411	610	539	433	667	817	795	471	923	952
28	40	156	141	284	648	412	241	540	559	668	621	796	822	924	886
29	11	157	321	285	226	413	652	541	237	669	437	797	851	925	935
30	72	158	200	286	171	414	450	542	898	670	837	798	932	926	978
31	132	159	90	287	330	415	334	543	617	671	722	799	730	927	762

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32	513	160	545	288	608	416	777	544	347	672	247	800	497	928	503
33	19	161	31	289	337	417	220	545	808	673	696	801	880	929	883
34	48	162	142	290	389	418	542	546	243	674	380	802	635	930	703
35	68	163	102	291	534	419	341	547	720	675	737	803	742	931	993
36	13	164	263	292	308	420	600	548	454	676	679	804	443	932	925
37	257	165	529	293	216	421	424	549	665	677	459	805	687	933	878
38	14	166	47	294	549	422	314	550	318	678	812	806	903	934	980
39	21	167	386	295	121	423	658	551	604	679	627	807	825	935	941
40	130	168	105	296	390	424	183	552	376	680	488	808	475	936	764
41	26	169	296	297	537	425	774	553	661	681	899	809	753	937	495
42	80	170	208	298	158	426	233	554	428	682	841	810	962	938	926
43	35	171	522	299	279	427	612	555	779	683	441	811	846	939	885
44	258	172	153	300	332	428	355	556	238	684	622	812	732	940	994
45	38	173	92	301	579	429	673	557	675	685	928	813	500	941	735
46	136	174	149	302	118	430	125	558	359	686	351	814	853	942	939
47	96	175	267	303	173	431	287	559	836	687	724	815	936	943	984
48	22	176	548	304	776	432	583	560	458	688	783	816	826	944	967
49	516	177	163	305	338	433	395	561	625	689	469	817	446	945	889
50	37	178	324	306	179	434	557	562	399	690	629	818	695	946	947
51	25	179	113	307	553	435	234	563	662	691	818	819	745	947	831
52	67	180	150	308	199	436	785	564	677	692	438	820	867	948	507
53	264	181	578	309	353	437	316	565	245	693	669	821	637	949	942
54	41	182	165	310	656	438	345	566	567	694	462	822	487	950	751
55	144	183	55	311	283	439	563	567	434	695	738	823	799	951	973
56	28	184	304	312	312	440	187	568	816	696	683	824	907	952	996
57	69	185	106	313	540	441	660	569	457	697	251	825	746	953	890
58	260	186	275	314	448	442	452	570	618	698	842	826	828	954	949
59	49	187	536	315	228	443	778	571	349	699	849	827	493	955	759
60	74	188	269	316	581	444	403	572	787	700	496	828	857	956	892
61	160	189	385	317	393	445	558	573	465	701	901	829	699	957	971
62	42	190	154	318	122	446	342	574	781	702	820	830	964	958	1000
63	520	191	768	319	181	447	397	575	897	703	728	831	915	959	953
64	134	192	79	320	772	448	587	576	363	704	467	832	477	960	509
65	70	193	108	321	232	449	207	577	666	705	633	833	854	961	863
66	44	194	224	322	295	450	616	578	407	706	902	834	909	962	981
67	81	195	166	323	561	451	236	579	591	707	367	835	719	963	950
68	272	196	532	324	174	452	676	580	127	708	670	836	504	964	974

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69	15	197	59	325	394	453	432	581	620	709	791	837	748	965	763
70	50	198	169	326	586	454	705	582	246	710	442	838	944	966	1008
71	131	199	114	327	63	455	346	583	736	711	844	839	858	967	979
72	192	200	195	328	203	456	565	584	436	712	630	840	873	968	879
73	73	201	577	329	672	457	361	585	678	713	474	841	638	969	954
74	23	202	328	330	354	458	674	586	571	714	685	842	478	970	986
75	514	203	270	331	554	459	126	587	350	715	850	843	754	971	995
76	137	204	277	332	401	460	242	588	681	716	483	844	869	972	891
77	52	205	87	333	340	461	896	589	249	717	691	845	917	973	927
78	288	206	546	334	646	462	357	590	626	718	711	846	727	974	510
79	76	207	156	335	124	463	780	591	460	719	379	847	499	975	765
80	133	208	116	336	285	464	405	592	707	720	865	848	910	976	956
81	82	209	388	337	582	465	589	593	840	721	795	849	815	977	997
82	27	210	519	338	182	466	215	594	411	722	415	850	870	978	982
83	97	211	336	339	299	467	664	595	782	723	824	851	931	979	887
84	259	212	291	340	556	468	398	596	365	724	960	852	255	980	985
85	39	213	278	341	240	469	566	597	789	725	740	853	968	981	943
86	528	214	197	342	211	470	303	598	440	726	253	854	860	982	998
87	56	215	641	343	593	471	597	599	599	727	905	855	701	983	1001
88	138	216	61	344	286	472	358	600	374	728	634	856	756	984	766
89	84	217	177	345	344	473	801	601	668	729	444	857	922	985	988
90	29	218	170	346	784	474	419	602	628	730	693	858	491	986	951
91	145	219	552	347	396	475	624	603	423	731	744	859	731	987	1004
92	261	220	91	348	205	476	456	604	900	732	485	860	823	988	893
93	43	221	281	349	527	477	786	605	466	733	807	861	874	989	1010
94	320	222	201	350	95	478	348	606	848	734	686	862	976	990	957
95	544	223	198	351	418	479	189	607	803	735	906	863	918	991	975
96	98	224	523	352	562	480	569	608	250	736	470	864	502	992	511
97	140	225	62	353	185	481	244	609	790	737	575	865	933	993	1002
98	265	226	143	354	643	482	590	610	371	738	715	866	743	994	894
99	30	227	294	355	213	483	410	611	709	739	375	867	760	995	983
100	88	228	584	356	402	484	647	612	191	740	866	868	881	996	1009
101	146	229	172	357	704	485	219	613	573	741	913	869	494	997	955
102	262	230	392	358	307	486	706	614	689	742	473	870	702	998	987
103	100	231	103	359	327	487	311	615	481	743	852	871	921	999	1012
104	518	232	644	360	585	488	595	616	682	744	636	872	827	1000	958
105	161	233	120	361	356	489	362	617	413	745	797	873	876	1001	999

106	71	234	293	362	535	490	802	618	603	746	431	874	934	1002	1005
107	45	235	282	363	206	491	464	619	793	747	694	875	847	1003	989
108	273	236	531	364	186	492	680	620	366	748	811	876	505	1004	1016
109	51	237	352	365	649	493	406	621	713	749	486	877	733	1005	990
110	148	238	178	366	301	494	788	622	468	750	752	878	963	1006	1011
111	266	239	202	367	111	495	421	623	710	751	723	879	882	1007	767
112	576	240	560	368	564	496	598	624	429	752	798	880	937	1008	1003
113	46	241	323	369	302	497	231	625	574	753	489	881	747	1009	1014
114	75	242	297	370	800	498	570	626	655	754	856	882	383	1010	1006
115	104	243	93	371	360	499	248	627	252	755	908	883	855	1011	1017
116	164	244	580	372	227	500	651	628	806	756	254	884	924	1012	895
117	193	245	107	373	588	501	369	629	414	757	717	885	992	1013	1013
118	53	246	151	374	417	502	834	630	684	758	607	886	734	1014	991
119	162	247	209	375	159	503	190	631	904	759	930	887	829	1015	1018
120	515	248	525	376	645	504	708	632	373	760	476	888	965	1016	959
121	384	249	284	377	404	505	409	633	615	761	697	889	501	1017	1020
122	268	250	180	378	594	506	613	634	482	762	725	890	938	1018	1015
123	77	251	400	379	309	507	315	635	632	763	914	891	884	1019	1007
124	152	252	769	380	214	508	572	636	805	764	439	892	945	1020	1019
125	54	253	94	381	539	509	364	637	223	765	819	893	749	1021	1021
126	85	254	204	382	449	510	659	638	794	766	839	894	859	1022	1022
127	524	255	298	383	331	511	422	639	864	767	868	895	755	1023	1023

[0163] Sequence Q27, having a sequence length of 512:

[0, 1, 4, 8, 2, 16, 32, 6, 64, 3, 12, 5, 18, 128, 9, 33, 17, 10, 36, 66, 24, 256, 20, 65, 34, 7, 129, 40, 11, 72, 132, 19, 48, 68, 13, 257, 14, 21, 130, 26, 80, 35, 258, 38, 136, 96, 22, 37, 25, 67, 264, 41, 144, 28, 69, 260, 49, 74, 160, 42, 134, 70, 44, 81, 272, 15, 50, 131, 192, 73, 23, 137, 52, 288, 76, 133, 82, 27, 97, 259, 39, 56, 138, 84, 29, 145, 261, 43, 320, 98, 140, 265, 30, 88, 146, 262, 100, 161, 71, 45, 273, 51, 148, 266, 46, 75, 104, 164, 193, 53, 162, 384, 268, 77, 152, 54, 85, 289, 112, 274, 57, 78, 135, 194, 83, 290, 168, 276, 86, 58, 139, 322, 196, 101, 60, 147, 176, 280, 99, 89, 292, 141, 321, 200, 90, 31, 142, 102, 263, 47, 386, 105, 296, 208, 153, 92, 149, 267, 163, 324, 113, 150, 165, 55, 304, 106, 275, 269, 385, 154, 79, 108, 224, 166, 59, 169, 114, 195, 328, 270, 277, 87, 156, 116, 388, 336, 291, 278, 197, 61, 177, 170, 91, 281, 201, 198, 62, 143, 294, 172, 392, 103, 120, 293, 282, 352, 178, 202, 323, 297, 93, 107, 151, 209, 284, 180, 400, 94, 204, 298, 326, 155, 305, 109, 325, 210, 184, 225, 167, 300, 115, 387, 329, 110, 416, 212, 271, 117, 306, 157, 226, 171, 330, 337, 389, 308, 216, 121, 390, 158, 279, 332, 118, 173, 338, 179, 199, 353, 283, 312, 448, 228, 393, 122, 181, 232, 295,

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174, 394, 63, 203, 354, 401, 340, 124, 285, 182, 299, 240, 211, 286, 344, 396, 205, 95, 418, 185, 213, 402, 307, 327, 356, 206, 186, 301, 111, 302, 360, 227, 417, 159, 404, 309, 214, 449, 331, 119, 217, 188, 229, 333, 408, 310, 339, 420, 218, 368, 123, 230, 175, 391, 313, 241, 450, 334, 220, 341, 424, 314, 183, 233, 355, 125, 287, 395, 234, 316, 345, 187, 452, 403, 342, 397, 207, 236, 432, 346, 361, 126, 242, 357, 405, 215, 398, 303, 358, 419, 456, 348, 189, 244, 410, 219, 311, 362, 464, 406, 421, 231, 248, 369, 190, 409, 315, 364, 422, 335, 221, 451, 370, 425, 235, 343, 412, 480, 222, 317, 453, 426, 372, 433, 237, 347, 243, 454, 318, 376, 428, 238, 359, 458, 399, 245, 434, 457, 349, 465, 363, 407, 127, 246, 436, 350, 249, 460, 411, 365, 440, 374, 423, 466, 250, 371, 191, 481, 413, 366, 468, 429, 252, 414, 373, 482, 223, 427, 472, 455, 377, 435, 319, 430, 239, 461, 484, 378, 437, 247, 380, 459, 488, 441, 351, 469, 438, 462, 251, 496, 467, 367, 442, 474, 483, 379, 415, 253, 444, 485, 470, 375, 473, 431, 486, 489, 254, 476, 439, 492, 381, 498, 445, 463, 490, 382, 471, 497, 443, 475, 500, 446, 487, 493, 477, 504, 478, 499, 255, 491, 502, 494, 505, 383, 501, 479, 506, 447, 508, 503, 495, 507, 509, 510, 511]

[0164] Table Q27, having a sequence length of 512:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	64	272	128	86	192	91	256	199	320	391	384	480	448	459
1	1	65	15	129	58	193	281	257	353	321	313	385	222	449	488
2	4	66	50	130	139	194	201	258	283	322	241	386	317	450	441
3	8	67	131	131	322	195	198	259	312	323	450	387	453	451	351
4	2	68	192	132	196	196	62	260	448	324	334	388	426	452	469
5	16	69	73	133	101	197	143	261	228	325	220	389	372	453	438
6	32	70	23	134	60	198	294	262	393	326	341	390	433	454	462
7	6	71	137	135	147	199	172	263	122	327	424	391	237	455	251
8	64	72	52	136	176	200	392	264	181	328	314	392	347	456	496
9	3	73	288	137	280	201	103	265	232	329	183	393	243	457	467
10	12	74	76	138	99	202	120	266	295	330	233	394	454	458	367
11	5	75	133	139	89	203	293	267	174	331	355	395	318	459	442
12	18	76	82	140	292	204	282	268	394	332	125	396	376	460	474
13	128	77	27	141	141	205	352	269	63	333	287	397	428	461	483
14	9	78	97	142	321	206	178	270	203	334	395	398	238	462	379
15	33	79	259	143	200	207	202	271	354	335	234	399	359	463	415

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16	17	80	39	144	90	288	323	272	401	336	316	400	458	464	253
17	10	81	56	145	31	209	297	273	340	337	345	401	399	465	444
18	36	82	138	146	142	210	93	274	124	338	187	402	245	466	485
19	66	83	84	147	102	211	107	275	285	339	452	403	434	467	470
20	24	84	29	148	263	212	151	276	182	340	403	404	457	468	375
21	256	85	145	149	47	213	209	277	299	341	342	405	349	469	473
22	20	86	261	150	386	214	284	278	240	342	397	406	465	470	431
23	65	87	43	151	105	215	180	279	211	343	207	407	363	471	486
24	34	88	320	152	296	216	400	280	286	344	236	408	407	472	489
25	7	89	98	153	208	217	94	281	344	345	432	409	127	473	254
26	129	90	140	154	153	218	204	282	396	346	346	410	246	474	476
27	40	91	265	155	92	219	298	283	205	347	361	411	436	475	439
28	11	92	30	156	149	220	326	284	95	348	126	412	350	476	492
29	72	93	88	157	267	221	155	285	418	349	242	413	249	477	381
30	132	94	146	158	163	222	305	286	185	350	357	414	460	478	498
31	19	95	262	159	324	223	109	287	213	351	405	415	411	479	445
32	48	96	100	160	113	224	325	288	402	352	215	416	365	480	463
33	68	97	161	161	150	225	210	289	307	353	398	417	440	481	490
34	13	98	71	162	165	226	184	290	327	354	303	418	374	482	382
35	257	99	45	163	55	227	225	291	356	355	358	419	423	483	471
36	14	100	273	164	304	228	167	292	206	356	419	420	466	484	497
37	21	101	51	165	106	229	300	293	186	357	456	421	250	485	443
38	130	102	148	166	275	230	115	294	301	358	348	422	371	486	475
39	26	103	266	167	269	231	387	295	111	359	189	423	191	487	500
40	80	104	46	168	385	232	329	296	302	360	244	424	481	488	446
41	35	105	75	169	154	233	110	297	360	361	410	425	413	489	487
42	258	106	104	170	79	234	416	298	227	362	219	426	366	490	493
43	38	107	164	171	108	235	212	299	417	363	311	427	468	491	477
44	136	108	193	172	224	236	271	300	159	364	362	428	429	492	504
45	96	109	53	173	166	237	117	301	404	365	464	429	252	493	478
46	22	110	162	174	59	238	306	302	309	366	406	430	414	494	499
47	37	111	384	175	169	239	157	303	214	367	421	431	373	495	255
48	25	112	268	176	114	240	226	304	449	368	231	432	482	496	491
49	67	113	77	177	195	241	171	305	331	369	248	433	223	497	502
50	264	114	152	178	328	242	330	306	119	370	369	434	427	498	494
51	41	115	54	179	270	243	337	307	217	371	190	435	472	499	505
52	144	116	85	180	277	244	389	308	188	372	409	436	455	500	383

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53	28	117	289	181	87	245	308	309	229	373	315	437	377	501	501
54	69	118	112	182	156	246	216	310	333	374	364	438	435	502	479
55	260	119	274	183	116	247	121	311	408	375	422	439	319	503	506
56	49	120	57	184	388	248	390	312	310	376	335	440	430	504	447
57	74	121	78	185	336	249	158	313	339	377	221	441	239	505	508
58	160	122	135	186	291	250	279	314	420	378	451	442	461	506	503
59	42	123	194	187	278	251	332	315	218	379	370	443	484	507	495
60	134	124	83	188	197	252	118	316	368	380	425	444	378	508	507
61	70	125	290	189	61	253	173	317	123	381	235	445	437	509	509
62	44	126	168	190	177	254	338	318	230	382	343	446	247	510	510
63	81	127	276	191	170	255	179	319	175	383	412	447	380	511	511

[0165] Sequence Q28, having a sequence length of 256:

[0, 1, 4, 8, 2, 16, 32, 6, 64, 3, 12, 5, 18, 128, 9, 33, 17, 10, 36, 66, 24, 20, 65, 34, 7, 129, 40, 11, 72, 132, 19, 48, 68, 13, 14, 21, 130, 26, 80, 35, 38, 136, 96, 22, 37, 25, 67, 41, 144, 28, 69, 49, 74, 160, 42, 134, 70, 44, 81, 15, 50, 131, 192, 73, 23, 137, 52, 76, 133, 82, 27, 97, 39, 56, 138, 84, 29, 145, 43, 98, 140, 30, 88, 146, 100, 161, 71, 45, 51, 148, 46, 75, 104, 164, 193, 53, 162, 77, 152, 54, 85, 112, 57, 78, 135, 194, 83, 168, 86, 58, 139, 196, 101, 60, 147, 176, 99, 89, 141, 200, 90, 31, 142, 102, 47, 105, 208, 153, 92, 149, 163, 113, 150, 165, 55, 106, 154, 79, 108, 224, 166, 59, 169, 114, 195, 87, 156, 116, 197, 61, 177, 170, 91, 201, 198, 62, 143, 172, 103, 120, 178, 202, 93, 107, 151, 209, 180, 94, 204, 155, 109, 210, 184, 225, 167, 115, 110, 212, 117, 157, 226, 171, 216, 121, 158, 118, 173, 179, 199, 228, 122, 181, 232, 174, 63, 203, 124, 182, 240, 211, 205, 95, 185, 213, 206, 186, 111, 227, 159, 214, 119, 217, 188, 229, 218, 123, 230, 175, 241, 220, 183, 233, 125, 234, 187, 207, 236, 126, 242, 215, 189, 244, 219, 231, 248, 190, 221, 235, 222, 237, 243, 238, 245, 127, 246, 249, 250, 191, 252, 223, 239, 247, 251, 253, 254, 255]

[0166] Table Q28, having a sequence length of 256:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	32	68	64	23	96	162	128	92	160	178	192	232	224	187
1	1	33	13	65	137	97	77	129	149	161	202	193	174	225	207
2	4	34	14	66	52	98	152	130	163	162	93	194	63	226	236
3	8	35	21	67	76	99	54	131	113	163	107	195	203	227	126

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4	2	36	130	68	133	100	85	132	150	164	151	196	124	228	242
5	16	37	26	69	82	101	112	133	165	165	209	197	182	229	215
6	32	38	80	70	27	102	57	134	55	166	180	198	240	230	189
7	6	39	35	71	97	103	78	135	106	167	94	199	211	231	244
8	64	40	38	72	39	104	135	136	154	168	204	200	205	232	219
9	3	41	136	73	56	105	194	137	79	169	155	201	95	233	231
10	12	42	96	74	138	106	83	138	108	170	109	202	185	234	248
11	5	43	22	75	84	107	168	139	224	171	210	203	213	235	190
12	18	44	37	76	29	108	86	140	166	172	184	204	206	236	221
13	128	45	25	77	145	109	58	141	59	173	225	205	186	237	235
14	9	46	67	78	43	110	139	142	169	174	167	206	111	238	222
15	33	47	41	79	98	111	196	143	114	175	115	207	227	239	237
16	17	48	144	80	140	112	101	144	195	176	110	208	159	240	243
17	10	49	28	81	30	113	60	145	87	177	212	209	214	241	238
18	36	50	69	82	88	114	147	146	156	178	117	210	119	242	245
19	66	51	49	83	146	115	176	147	116	179	157	211	217	243	127
20	24	52	74	84	100	116	99	148	197	180	226	212	188	244	246
21	20	53	160	85	161	117	89	149	61	181	171	213	229	245	249
22	65	54	42	86	71	118	141	150	177	182	216	214	218	246	250
23	34	55	134	87	45	119	200	151	170	183	121	215	123	247	191
24	7	56	70	88	51	120	90	152	91	184	158	216	230	248	252
25	129	57	44	89	148	121	31	153	201	185	118	217	175	249	223
26	40	58	81	90	46	122	142	154	198	186	173	218	241	250	239
27	11	59	15	91	75	123	102	155	62	187	179	219	220	251	247
28	72	60	50	92	104	124	47	156	143	188	199	220	183	252	251
29	132	61	131	93	164	125	105	157	172	189	228	221	233	253	253
30	19	62	192	94	193	126	208	158	103	190	122	222	125	254	254
31	48	63	73	95	53	127	153	159	120	191	181	223	234	255	255

[0167] Sequence Q29, having a sequence length of 128:

[0, 1, 4, 8, 2, 16, 32, 6, 64, 3, 12, 5, 18, 9, 33, 17, 10, 36, 66, 24, 20, 65, 34, 7, 40, 11, 72, 19, 48, 68, 13, 14, 21, 26, 80, 35, 38, 96, 22, 37, 25, 67, 41, 28, 69, 49, 74, 42, 70, 44, 81, 15, 50, 73, 23, 52, 76, 82, 27, 97, 39, 56, 84, 29, 43, 98, 30, 88, 100, 71, 45, 51, 46, 75, 104, 53, 77, 54, 85, 112, 57, 78, 83, 86, 58, 101, 60, 99, 89, 90, 31, 102, 47, 105, 92, 113, 55, 106, 79, 108, 59, 114, 87, 116, 61, 91, 62, 103, 120, 93, 107, 94, 109, 115, 110, 117, 121, 118, 122, 63, 124, 95, 111, 119, 123, 125, 126, 127]

[0168] Table Q29, having a sequence length of 128:

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Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	16	10	32	21	48	70	64	43	80	57	96	55	112	109
1	1	17	36	33	26	49	44	65	98	81	78	97	106	113	115
2	4	18	66	34	80	50	81	66	30	82	83	98	79	114	110
3	8	19	24	35	35	51	15	67	88	83	86	99	108	115	117
4	2	20	20	36	38	52	50	68	100	84	58	100	59	116	121
5	16	21	65	37	96	53	73	69	71	85	101	101	114	117	118
6	32	22	34	38	22	54	23	70	45	86	60	102	87	118	122
7	6	23	7	39	37	55	52	71	51	87	99	103	116	119	63
8	64	24	40	40	25	56	76	72	46	88	89	104	61	120	124
9	3	25	11	41	67	57	82	73	75	89	90	105	91	121	95
10	12	26	72	42	41	58	27	74	104	90	31	106	62	122	111
11	5	27	19	43	28	59	97	75	53	91	102	107	103	123	119
12	18	28	48	44	69	60	39	76	77	92	47	108	120	124	123
13	9	29	68	45	49	61	56	77	54	93	105	109	93	125	125
14	33	30	13	46	74	62	84	78	85	94	92	110	107	126	126
15	17	31	14	47	42	63	29	79	112	95	113	111	94	127	127

[0169] Sequence Q30, having a sequence length of 64:

[0, 1, 4, 8, 2, 16, 32, 6, 3, 12, 5, 18, 9, 33, 17, 10, 36, 24, 20, 34, 7, 40, 11, 19, 48, 13, 14, 21, 26, 35, 38, 22, 37, 25, 41, 28, 49, 42, 44, 15, 50, 23, 52, 27, 39, 56, 29, 43, 30, 45, 51, 46, 53, 54, 57, 58, 60, 31, 47, 55, 59, 61, 62, 63]

[0170] Table Q30, having a sequence length of 64:

Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number
0	0	8	3	16	36	24	48	32	37	40	50	48	30	56	60
1	1	9	12	17	24	25	13	33	25	41	23	49	45	57	31

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2	4	10	5	18	20	26	14	34	41	42	52	50	51	58	47
3	8	11	18	19	34	27	21	35	28	43	27	51	46	59	55
4	2	12	9	20	7	28	26	36	49	44	39	52	53	60	59
5	16	13	33	21	40	29	35	37	42	45	56	53	54	61	61
6	32	14	17	22	11	30	38	38	44	46	29	54	57	62	62
7	6	15	10	23	19	31	22	39	15	47	43	55	58	63	63

[0171] Sequence Z26, having a sequence length of 1024:

[0, 1, 4, 10, 2, 12, 7, 26, 3, 15, 18, 29, 11, 36, 38, 69, 5, 17, 13, 33, 23, 39, 48, 74, 21, 51, 41, 82, 56, 90, 99, 161, 6, 16, 25, 43, 19, 50, 45, 85, 28, 54, 62, 93, 66, 107, 113, 166, 34, 59, 70, 109, 77, 118, 125, 183, 87, 131, 142, 197, 148, 216, 225, 327, 8, 24, 20, 52, 35, 57, 65, 106, 30, 73, 60, 114, 79, 123, 132, 192, 42, 67, 81, 136, 89, 126, 140, 205, 100, 153, 159, 220, 173, 243, 253, 350, 47, 83, 96, 152, 103, 146, 163, 231, 115, 168, 185, 245, 193, 261, 275, 367, 129, 179, 199, 271, 208, 280, 302, 385, 233, 295, 318, 404, 335, 430, 459, 580, 14, 27, 40, 71, 31, 80, 64, 133, 46, 76, 88, 143, 97, 156, 162, 226, 55, 91, 101, 149, 110, 174, 180, 246, 124, 172, 190, 258, 207, 283, 298, 375, 61, 105, 119, 177, 116, 182, 195, 268, 138, 198, 218, 286, 229, 303, 324, 407, 150, 217, 238, 306, 250, 319, 338, 424, 265, 353, 364, 440, 388, 479, 503, 612, 72, 117, 135, 200, 145, 214, 223, 308, 158, 222, 239, 328, 254, 348, 363, 449, 170, 247, 264, 342, 278, 355, 380, 466, 293, 387, 400, 485, 417, 513, 529, 637, 194, 266, 285, 372, 315, 390, 405, 497, 321, 426, 435, 521, 451, 541, 556, 658, 341, 412, 460, 546, 481, 565, 582, 672, 499, 589, 608, 697, 627, 726, 756, 852, 22, 37, 44, 84, 58, 92, 102, 164, 53, 98, 111, 175, 122, 188, 203, 279, 68, 108, 130, 186, 139, 204, 213, 299, 151, 221, 235, 311, 249, 336, 344, 431, 78, 128, 137, 212, 155, 234, 227, 322, 169, 242, 255, 339, 269, 366, 369, 470, 184, 260, 282, 358, 292, 379, 395, 487, 312, 410, 422, 507, 437, 531, 550, 653, 94, 157, 144, 241, 178, 262, 257, 359, 202, 273, 287, 383, 300, 392, 415, 512, 211, 289, 305, 397, 333, 419, 446, 523, 345, 438, 455, 544, 478, 571, 587, 686, 237, 309, 330, 428, 361, 462, 472, 558, 371, 457, 489, 576, 509, 596, 620, 707, 402, 501, 517, 610, 537, 632, 600, 739, 552, 647, 666, 719, 674, 771, 791, 882, 121, 189, 167, 272, 209, 290, 296, 409, 230, 317, 325, 433, 347, 447, 468, 562, 251, 332, 356, 444, 377, 464, 493, 578, 393, 505, 483, 594, 525, 617, 629, 722, 276, 374, 351, 474, 398, 495, 511, 603, 421, 519, 535, 640, 554, 624, 655, 746, 453, 539, 567, 650, 584, 669, 692, 764, 598, 683, 710, 804, 729, 779, 817, 911, 314, 382, 414, 515, 442, 533, 548, 645, 476, 569, 560, 677, 591, 661, 694, 783, 491, 573, 605, 704, 622, 689, 736, 795, 642, 742, 713, 808, 760, 832, 842, 896, 527, 615, 634, 716, 663, 732, 749, 822, 680, 753, 787, 858, 768, 827, 869, 937, 700, 800, 775, 847, 813, 889, 864, 928, 836, 876, 903, 948, 919, 960, 974, 992, 9, 32, 75, 120, 49, 134, 104, 210, 63, 154, 171, 224, 127, 248, 256, 349, 86, 165, 141, 236, 196, 259, 291, 362, 187, 297, 267, 381, 313, 399, 418, 532, 95, 160, 206, 274,

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176, 294, 281, 389, 219, 307, 331, 406, 340, 434, 445, 540, 240, 323, 352, 439, 368, 456, 469, 566, 391, 480, 498, 586, 508, 613, 625, 737, 112, 201, 181, 301, 244, 316, 337, 432, 228, 360, 326, 448, 373, 465, 482, 579, 270, 343, 378, 488, 396, 471, 496, 599, 420, 520, 530, 618, 551, 648, 659, 758, 288, 384, 411, 518, 427, 506, 536, 633, 450, 543, 570, 649, 581, 668, 684, 773, 475, 561, 590, 679, 602, 690, 712, 788, 635, 705, 728, 802, 744, 821, 841, 914, 147, 215, 263, 354, 232, 376, 334, 484, 284, 365, 394, 500, 413, 524, 534, 626, 310, 401, 423, 510, 441, 553, 563, 651, 467, 549, 577, 665, 601, 693, 708, 780, 329, 429, 458, 557, 452, 564, 585, 676, 492, 588, 616, 696, 630, 714, 734, 805, 514, 614, 641, 717, 656, 730, 747, 818, 673, 761, 770, 829, 790, 855, 870, 930, 357, 454, 486, 592, 504, 611, 623, 718, 528, 621, 643, 738, 660, 757, 769, 835, 547, 652, 671, 751, 687, 762, 784, 846, 703, 789, 799, 859, 812, 877, 886, 941, 583, 675, 695, 777, 725, 792, 803, 866, 731, 819, 825, 881, 837, 893, 901, 950, 750, 809, 843, 895, 856, 906, 915, 955, 867, 918, 927, 965, 936, 975, 984, 1007, 191, 252, 277, 386, 320, 403, 425, 538, 304, 416, 443, 555, 463, 574, 595, 688, 346, 436, 477, 572, 494, 597, 609, 709, 516, 619, 638, 721, 654, 745, 752, 823, 370, 473, 490, 607, 522, 636, 628, 733, 545, 646, 662, 748, 678, 772, 774, 849, 568, 667, 691, 765, 702, 782, 796, 860, 723, 807, 816, 872, 826, 887, 898, 947, 408, 526, 502, 644, 559, 670, 664, 766, 593, 682, 698, 786, 711, 793, 811, 875, 606, 699, 715, 797, 743, 814, 833, 883, 754, 828, 839, 894, 854, 909, 917, 961, 639, 720, 740, 820, 767, 844, 850, 902, 776, 840, 861, 912, 873, 922, 933, 968, 801, 868, 879, 929, 891, 939, 924, 979, 899, 945, 953, 972, 956, 988, 994, 1012, 461, 575, 542, 681, 604, 701, 706, 806, 631, 727, 735, 824, 755, 834, 848, 905, 657, 741, 763, 831, 781, 845, 863, 913, 794, 871, 857, 921, 884, 932, 938, 973, 685, 778, 759, 851, 798, 865, 874, 925, 815, 880, 890, 942, 900, 935, 949, 981, 838, 892, 907, 946, 916, 954, 963, 986, 923, 959, 969, 997, 976, 990, 1000, 1016, 724, 785, 810, 878, 830, 888, 897, 944, 853, 908, 904, 957, 920, 951, 964, 991, 862, 910, 926, 967, 934, 962, 978, 995, 943, 980, 970, 998, 985, 1003, 1005, 1014, 885, 931, 940, 971, 952, 977, 982, 1001, 958, 983, 993, 1008, 987, 1002, 1010, 1019, 966, 996, 989, 1006, 999, 1013, 1009, 1018, 1004, 1011, 1015, 1020, 1017, 1021, 1022, 1023]

[0172] Table Z26, having a sequence length of 1024:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	128	14	256	22	384	121	512	9	640	147	768	191	896	461
1	1	129	27	257	37	385	189	513	32	641	215	769	252	897	575
2	4	130	40	258	44	386	167	514	75	642	263	770	277	898	542

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3	10	131	71	259	84	387	272	515	120	643	354	771	386	899	681
4	2	132	31	260	58	388	209	516	49	644	232	772	320	900	604
5	12	133	80	261	92	389	290	517	134	645	376	773	403	901	701
6	7	134	64	262	102	390	296	518	104	646	334	774	425	902	706
7	26	135	133	263	164	391	409	519	210	647	484	775	538	903	806
8	3	136	46	264	53	392	230	520	63	648	284	776	304	904	631
9	15	137	76	265	98	393	317	521	154	649	365	777	416	905	727
10	18	138	88	266	111	394	325	522	171	650	394	778	443	906	735
11	29	139	143	267	175	395	433	523	224	651	500	779	555	907	824
12	11	140	97	268	122	396	347	524	127	652	413	780	463	908	755
13	36	141	156	269	188	397	447	525	248	653	524	781	574	909	834
14	38	142	162	270	203	398	468	526	256	654	534	782	595	910	848
15	69	143	226	271	279	399	562	527	349	655	626	783	688	911	905
16	5	144	55	272	68	400	251	528	86	656	310	784	346	912	657
17	17	145	91	273	108	401	332	529	165	657	401	785	436	913	741
18	13	146	101	274	130	402	356	530	141	658	423	786	477	914	763
19	33	147	149	275	186	403	444	531	236	659	510	787	572	915	831
20	23	148	110	276	139	404	377	532	196	660	441	788	494	916	781
21	39	149	174	277	204	405	464	533	259	661	553	789	597	917	845
22	48	150	180	278	213	406	493	534	291	662	563	790	609	918	863
23	74	151	246	279	299	407	578	535	362	663	651	791	709	919	913
24	21	152	124	280	151	408	393	536	187	664	467	792	516	920	794
25	51	153	172	281	221	409	505	537	297	665	549	793	619	921	871
26	41	154	190	282	235	410	483	538	267	666	577	794	638	922	857
27	82	155	258	283	311	411	594	539	381	667	665	795	721	923	921
28	56	156	207	284	249	412	525	540	313	668	601	796	654	924	884
29	90	157	283	285	336	413	617	541	399	669	693	797	745	925	932
30	99	158	298	286	344	414	629	542	418	670	708	798	752	926	938
31	161	159	375	287	431	415	722	543	532	671	780	799	823	927	973
32	6	160	61	288	78	416	276	544	95	672	329	800	370	928	685
33	16	161	105	289	128	417	374	545	160	673	429	801	473	929	778
34	25	162	119	290	137	418	351	546	206	674	458	802	490	930	759
35	43	163	177	291	212	419	474	547	274	675	557	803	607	931	851
36	19	164	116	292	155	420	398	548	176	676	452	804	522	932	798
37	50	165	182	293	234	421	495	549	294	677	564	805	636	933	865
38	45	166	195	294	227	422	511	550	281	678	585	806	628	934	874
39	85	167	268	295	322	423	603	551	389	679	676	807	733	935	925

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40	28	168	138	296	169	424	421	552	219	680	492	808	545	936	815
41	54	169	198	297	242	425	519	553	307	681	588	809	646	937	880
42	62	170	218	298	255	426	535	554	331	682	616	810	662	938	890
43	93	171	286	299	339	427	640	555	406	683	696	811	748	939	942
44	66	172	229	300	269	428	554	556	340	684	630	812	678	940	900
45	107	173	303	301	366	429	624	557	434	685	714	813	772	941	935
46	113	174	324	302	369	430	655	558	445	686	734	814	774	942	949
47	166	175	407	303	470	431	746	559	540	687	805	815	849	943	981
48	34	176	150	304	184	432	453	560	240	688	514	816	568	944	838
49	59	177	217	305	260	433	539	561	323	689	614	817	667	945	892
50	70	178	238	306	282	434	567	562	352	690	641	818	691	946	907
51	109	179	306	307	358	435	650	563	439	691	717	819	765	947	946
52	77	180	250	308	292	436	584	564	368	692	656	820	702	948	916
53	118	181	319	309	379	437	669	565	456	693	730	821	782	949	954
54	125	182	338	310	395	438	692	566	469	694	747	822	796	950	963
55	183	183	424	311	487	439	764	567	566	695	818	823	860	951	986
56	87	184	265	312	312	440	598	568	391	696	673	824	723	952	923
57	131	185	353	313	410	441	683	569	480	697	761	825	807	953	959
58	142	186	364	314	422	442	710	570	498	698	770	826	816	954	969
59	197	187	440	315	507	443	804	571	586	699	829	827	872	955	997
60	148	188	388	316	437	444	729	572	508	700	790	828	826	956	976
61	216	189	479	317	531	445	779	573	613	701	855	829	887	957	990
62	225	190	503	318	550	446	817	574	625	702	870	830	898	958	1000
63	327	191	612	319	653	447	911	575	737	703	930	831	947	959	1016
64	8	192	72	320	94	448	314	576	112	704	357	832	408	960	724
65	24	193	117	321	157	449	382	577	201	705	454	833	526	961	785
66	20	194	135	322	144	450	414	578	181	706	486	834	502	962	810
67	52	195	200	323	241	451	515	579	301	707	592	835	644	963	878
68	35	196	145	324	178	452	442	580	244	708	504	836	559	964	830
69	57	197	214	325	262	453	533	581	316	709	611	837	670	965	888
70	65	198	223	326	257	454	548	582	337	710	623	838	664	966	897
71	106	199	308	327	359	455	645	583	432	711	718	839	766	967	944
72	30	200	158	328	202	456	476	584	228	712	528	840	593	968	853
73	73	201	222	329	273	457	569	585	360	713	621	841	682	969	908
74	60	202	239	330	287	458	560	586	326	714	643	842	698	970	904
75	114	203	328	331	383	459	677	587	448	715	738	843	786	971	957
76	79	204	254	332	300	460	591	588	373	716	660	844	711	972	920

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77	123	205	348	333	392	461	661	589	465	717	757	845	793	973	951
78	132	206	363	334	415	462	694	590	482	718	769	846	811	974	964
79	192	207	449	335	512	463	783	591	579	719	835	847	875	975	991
80	42	208	170	336	211	464	491	592	270	720	547	848	606	976	862
81	67	209	247	337	289	465	573	593	343	721	652	849	699	977	910
82	81	210	264	338	305	466	605	594	378	722	671	850	715	978	926
83	136	211	342	339	397	467	704	595	488	723	751	851	797	979	967
84	89	212	278	340	333	468	622	596	396	724	687	852	743	980	934
85	126	213	355	341	419	469	689	597	471	725	762	853	814	981	962
86	140	214	380	342	446	470	736	598	496	726	784	854	833	982	978
87	205	215	466	343	523	471	795	599	599	727	846	855	883	983	995
88	100	216	293	344	345	472	642	600	420	728	703	856	754	984	943
89	153	217	387	345	438	473	742	601	520	729	789	857	828	985	980
90	159	218	400	346	455	474	713	602	530	730	799	858	839	986	970
91	220	219	485	347	544	475	808	603	618	731	859	859	894	987	998
92	173	220	417	348	478	476	760	604	551	732	812	860	854	988	985
93	243	221	513	349	571	477	832	605	648	733	877	861	909	989	1003
94	253	222	529	350	587	478	842	606	659	734	886	862	917	990	1005
95	350	223	637	351	686	479	896	607	758	735	941	863	961	991	1014
96	47	224	194	352	237	480	527	608	288	736	583	864	639	992	885
97	83	225	266	353	309	481	615	609	384	737	675	865	720	993	931
98	96	226	285	354	330	482	634	610	411	738	695	866	740	994	940
99	152	227	372	355	428	483	716	611	518	739	777	867	820	995	971
100	103	228	315	356	361	484	663	612	427	740	725	868	767	996	952
101	146	229	390	357	462	485	732	613	506	741	792	869	844	997	977
102	163	230	405	358	472	486	749	614	536	742	803	870	850	998	982
103	231	231	497	359	558	487	822	615	633	743	866	871	902	999	1001
104	115	232	321	360	371	488	680	616	450	744	731	872	776	1000	958
105	168	233	426	361	457	489	753	617	543	745	819	873	840	1001	983
106	185	234	435	362	489	490	787	618	570	746	825	874	861	1002	993
107	245	235	521	363	576	491	858	619	649	747	881	875	912	1003	1008
108	193	236	451	364	509	492	768	620	581	748	837	876	873	1004	987
109	261	237	541	365	596	493	827	621	668	749	893	877	922	1005	1002
110	275	238	556	366	620	494	869	622	684	750	901	878	933	1006	1010
111	367	239	658	367	707	495	937	623	773	751	950	879	968	1007	1019
112	129	240	341	368	402	496	700	624	475	752	750	880	801	1008	966
113	179	241	412	369	501	497	800	625	561	753	809	881	868	1009	996

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114	199	242	460	370	517	498	775	636	590	754	843	882	879	1010	989
115	271	243	546	371	610	499	847	637	679	755	895	883	929	1011	1006
116	208	244	481	372	537	500	813	638	602	756	856	884	891	1012	999
117	280	245	565	373	632	501	889	639	690	757	906	885	939	1013	1013
118	302	246	582	374	600	502	864	640	712	758	915	886	924	1014	1009
119	385	247	672	375	739	503	928	641	788	759	955	887	979	1015	1018
120	233	248	499	376	552	504	836	642	635	760	867	888	899	1016	1004
121	295	249	589	377	647	505	876	643	705	761	918	889	945	1017	1011
122	318	250	608	378	666	506	903	644	728	762	927	890	953	1018	1015
123	404	251	697	379	719	507	948	645	802	763	965	891	972	1019	1020
124	335	252	627	380	674	508	919	646	744	764	936	892	956	1020	1017
125	430	253	726	381	771	509	960	647	821	765	975	893	988	1021	1021
126	459	254	756	382	791	510	974	648	841	766	984	894	994	1022	1022
127	580	255	852	383	882	511	992	649	914	767	1007	895	1012	1023	1023

[0173] Sequence Z27, having a sequence length of 512:

[0, 1, 4, 9, 2, 11, 7, 25, 3, 14, 17, 28, 10, 34, 36, 65, 5, 16, 12, 31, 22, 37, 46, 70, 20, 48, 39, 77, 53, 84, 92, 145, 6, 15, 24, 41, 18, 47, 43, 80, 27, 51, 59, 87, 62, 99, 104, 149, 32, 56, 66, 101, 72, 109, 115, 163, 81, 120, 129, 174, 134, 189, 196, 269, 8, 23, 19, 49, 33, 54, 61, 98, 29, 69, 57, 105, 74, 113, 121, 170, 40, 63, 76, 124, 83, 116, 128, 181, 93, 139, 144, 192, 155, 210, 217, 284, 45, 78, 89, 138, 96, 133, 147, 201, 106, 151, 165, 211, 171, 223, 233, 295, 118, 160, 176, 230, 183, 237, 252, 306, 202, 247, 263, 317, 274, 332, 348, 409, 13, 26, 38, 67, 30, 75, 60, 122, 44, 71, 82, 130, 90, 141, 146, 197, 52, 85, 94, 135, 102, 156, 161, 212, 114, 154, 169, 221, 182, 239, 249, 300, 58, 97, 110, 158, 107, 162, 173, 228, 126, 175, 191, 241, 199, 253, 267, 319, 136, 190, 206, 255, 215, 264, 276, 329, 226, 286, 293, 338, 308, 359, 371, 423, 68, 108, 123, 177, 132, 188, 195, 256, 143, 194, 207, 270, 218, 283, 292, 343, 153, 213, 225, 279, 235, 287, 303, 352, 246, 307, 315, 362, 325, 377, 385, 433, 172, 227, 240, 298, 261, 309, 318, 368, 265, 330, 335, 381, 344, 391, 398, 441, 278, 322, 349, 393, 360, 402, 410, 446, 369, 413, 421, 455, 429, 464, 473, 495, 21, 35, 42, 79, 55, 86, 95, 148, 50, 91, 103, 157, 112, 167, 179, 236, 64, 100, 119, 166, 127, 180, 187, 250, 137, 193, 204, 258, 214, 275, 280, 333, 73, 117, 125, 186, 140, 203, 198, 266, 152, 209, 219, 277, 229, 294, 296, 354, 164, 222, 238, 289, 245, 302, 312, 363, 259, 321, 328, 373, 336, 386, 395, 439, 88, 142, 131, 208, 159, 224, 220, 290, 178, 232, 242, 305, 251, 310, 324, 376, 185, 243, 254, 313, 273, 326, 341, 382, 281, 337, 346, 392, 358, 405, 412, 451, 205, 257, 271, 331, 291, 350, 355, 399, 297, 347, 364, 407, 374, 416, 426, 458, 316, 370, 379, 422, 389, 431, 418, 468, 396, 437, 444, 462, 447, 477, 482, 500, 111, 168, 150, 231, 184, 244, 248, 320, 200, 262, 268, 334, 282, 342, 353, 401, 216, 272, 288, 340, 301, 351,

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366, 408, 311, 372, 361, 415, 383, 425, 430, 463, 234, 299, 285, 356, 314, 367, 375, 419, 327, 380, 388, 434, 397, 428, 440, 470, 345, 390, 403, 438, 411, 445, 453, 475, 417, 450, 459, 485, 465, 479, 488, 504, 260, 304, 323, 378, 339, 387, 394, 436, 357, 404, 400, 448, 414, 442, 454, 480, 365, 406, 420, 457, 427, 452, 467, 483, 435, 469, 460, 486, 474, 491, 493, 502, 384, 424, 432, 461, 443, 466, 471, 489, 449, 472, 481, 496, 476, 490, 498, 507, 456, 484, 478, 494, 487, 501, 497, 506, 492, 499, 503, 508, 505, 509, 510, 511]

[0174] Table Z27, having a sequence length of 512:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	64	8	128	13	192	68	256	21	320	88	384	111	448	260
1	1	65	23	129	26	193	108	257	35	321	142	385	168	449	304
2	4	66	19	130	38	194	123	258	42	322	131	386	150	450	323
3	9	67	49	131	67	195	177	259	79	323	208	387	231	451	378
4	2	68	33	132	30	196	132	260	55	324	159	388	184	452	339
5	11	69	54	133	75	197	188	261	86	325	224	389	244	453	387
6	7	70	61	134	60	198	195	262	95	326	220	390	248	454	394
7	25	71	98	135	122	199	256	263	148	327	290	391	320	455	436
8	3	72	29	136	44	200	143	264	50	328	178	392	200	456	357
9	14	73	69	137	71	201	194	265	91	329	232	393	262	457	404
10	17	74	57	138	82	202	207	266	103	330	242	394	268	458	400
11	28	75	105	139	130	203	270	267	157	331	305	395	334	459	448
12	10	76	74	140	90	204	218	268	112	332	251	396	282	460	414
13	34	77	113	141	141	205	283	269	167	333	310	397	342	461	442
14	36	78	121	142	146	206	292	270	179	334	324	398	353	462	454
15	65	79	170	143	197	207	343	271	236	335	376	399	401	463	480
16	5	80	40	144	52	208	153	272	64	336	185	400	216	464	365
17	16	81	63	145	85	209	213	273	100	337	243	401	272	465	406
18	12	82	76	146	94	210	225	274	119	338	254	402	288	466	420
19	31	83	124	147	135	211	279	275	166	339	313	403	340	467	457
20	22	84	83	148	102	212	235	276	127	340	273	404	301	468	427
21	37	85	116	149	156	213	287	277	180	341	326	405	351	469	452
22	46	86	128	150	161	214	303	278	187	342	341	406	366	470	467
23	70	87	181	151	212	215	352	279	250	343	382	407	408	471	483

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24	20	88	93	152	114	216	246	280	137	344	281	408	311	472	435
25	48	89	139	153	154	217	307	281	193	345	337	409	372	473	469
26	39	90	144	154	169	218	315	282	204	346	346	410	361	474	460
27	77	91	192	155	221	219	362	283	258	347	392	411	415	475	486
28	53	92	155	156	182	220	325	284	214	348	358	412	383	476	474
29	84	93	210	157	239	221	377	285	275	349	405	413	425	477	491
30	92	94	217	158	249	222	385	286	280	350	412	414	430	478	493
31	145	95	284	159	300	223	433	287	333	351	451	415	463	479	502
32	6	96	45	160	58	224	172	288	73	352	205	416	234	480	384
33	15	97	78	161	97	225	227	289	117	353	257	417	299	481	424
34	24	98	89	162	110	226	240	290	125	354	271	418	285	482	432
35	41	99	138	163	158	227	298	291	186	355	331	419	356	483	461
36	18	100	96	164	107	228	261	292	140	356	291	420	314	484	443
37	47	101	133	165	162	229	309	293	203	357	350	421	367	485	466
38	43	102	147	166	173	230	318	294	198	358	355	422	375	486	471
39	80	103	201	167	228	231	368	295	266	359	399	423	419	487	489
40	27	104	106	168	126	232	265	296	152	360	297	424	327	488	449
41	51	105	151	169	175	233	330	297	209	361	347	425	380	489	472
42	59	106	165	170	191	234	335	298	219	362	364	426	388	490	481
43	87	107	211	171	241	235	381	299	277	363	407	427	434	491	496
44	62	108	171	172	199	236	344	300	229	364	374	428	397	492	476
45	99	109	223	173	253	237	391	301	294	365	416	429	428	493	490
46	104	110	233	174	267	238	398	302	296	366	426	430	440	494	498
47	149	111	295	175	319	239	441	303	354	367	458	431	470	495	507
48	32	112	118	176	136	240	278	304	164	368	316	432	345	496	456
49	56	113	160	177	190	241	322	305	222	369	370	433	390	497	484
50	66	114	176	178	206	242	349	306	238	370	379	434	403	498	478
51	101	115	230	179	255	243	393	307	289	371	422	435	438	499	494
52	72	116	183	180	215	244	360	308	245	372	389	436	411	500	487
53	109	117	237	181	264	245	402	309	302	373	431	437	445	501	501
54	115	118	252	182	276	246	410	310	312	374	418	438	453	502	497
55	163	119	306	183	329	247	446	311	363	375	468	439	475	503	506
56	81	120	202	184	226	248	369	312	259	376	396	440	417	504	492
57	120	121	247	185	286	249	413	313	321	377	437	441	450	505	499
58	129	122	263	186	293	250	421	314	328	378	444	442	459	506	503
59	174	123	317	187	338	251	455	315	373	379	462	443	485	507	508
60	134	124	274	188	308	252	429	316	336	380	447	444	465	508	505

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61	189	125	332	189	359	253	464	317	386	381	477	445	479	509	509
62	196	126	348	190	371	254	473	318	395	382	482	446	488	510	510
63	269	127	409	191	423	255	495	319	439	383	500	447	504	511	511

[0175] Sequence Z28, having a sequence length of 256:

[0, 1, 4, 9, 2, 11, 7, 24, 3, 14, 17, 27, 10, 33, 34, 59, 5, 16, 12, 30, 21, 35, 43, 64, 20, 45, 37, 70, 49, 76, 81, 121, 6, 15, 23, 39, 18, 44, 40, 72, 26, 47, 54, 78, 57, 87, 90, 124, 31, 51, 60, 88, 66, 95, 99, 134, 73, 102, 109, 141, 113, 149, 155, 194, 8, 22, 19, 46, 32, 50, 56, 86, 28, 63, 52, 91, 67, 97, 103, 137, 38, 58, 69, 106, 75, 100, 108, 145, 82, 117, 120, 152, 128, 162, 167, 201, 42, 71, 79, 116, 84, 112, 123, 158, 92, 125, 135, 163, 138, 170, 176, 206, 101, 131, 143, 175, 147, 178, 185, 210, 159, 183, 190, 215, 196, 222, 227, 243, 13, 25, 36, 61, 29, 68, 55, 104, 41, 65, 74, 110, 80, 118, 122, 156, 48, 77, 83, 114, 89, 129, 132, 164, 98, 127, 136, 169, 146, 179, 184, 208, 53, 85, 96, 130, 93, 133, 140, 174, 107, 142, 151, 181, 157, 186, 193, 217, 115, 150, 160, 187, 166, 191, 197, 220, 172, 202, 205, 224, 212, 230, 235, 247, 62, 94, 105, 144, 111, 148, 154, 188, 119, 153, 161, 195, 168, 200, 204, 225, 126, 165, 171, 199, 177, 203, 209, 229, 182, 211, 214, 232, 219, 236, 238, 249, 139, 173, 180, 207, 189, 213, 216, 233, 192, 221, 223, 237, 226, 239, 241, 250, 198, 218, 228, 240, 231, 242, 244, 251, 234, 245, 246, 252, 248, 253, 254, 255]

[0176] Table Z28, having a sequence length of 256:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	32	6	64	8	96	42	128	13	160	53	192	62	224	139
1	1	33	15	65	22	97	71	129	25	161	85	193	94	225	173
2	4	34	23	66	19	98	79	130	36	162	96	194	105	226	180
3	9	35	39	67	46	99	116	131	61	163	130	195	144	227	207
4	2	36	18	68	32	100	84	132	29	164	93	196	111	228	189
5	11	37	44	69	50	101	112	133	68	165	133	197	148	229	213
6	7	38	40	70	56	102	123	134	55	166	140	198	154	230	216
7	24	39	72	71	86	103	158	135	104	167	174	199	188	231	233
8	3	40	26	72	28	104	92	136	41	168	107	200	119	232	192
9	14	41	47	73	63	105	125	137	65	169	142	201	153	233	221
10	17	42	54	74	52	106	135	138	74	170	151	202	161	234	223

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11	27	43	78	75	91	107	163	139	110	171	181	203	195	235	237
12	10	44	57	76	67	166	138	140	80	172	157	204	168	236	226
13	33	45	87	77	97	109	170	141	118	173	186	205	200	237	239
14	34	46	90	78	103	110	176	142	122	174	193	206	204	238	241
15	59	47	124	79	137	111	206	143	156	175	217	207	225	239	250
16	5	48	31	80	38	112	101	144	48	176	115	208	126	240	198
17	16	49	51	81	58	113	131	145	77	177	150	209	165	241	218
18	12	50	60	82	69	114	143	146	83	178	160	210	171	242	228
19	30	51	88	83	106	115	175	147	114	179	187	211	199	243	240
20	21	52	66	84	75	116	147	148	89	180	166	212	177	244	231
21	35	53	95	85	100	117	178	149	129	181	191	213	203	245	242
22	43	54	99	86	108	118	185	150	132	182	197	214	209	246	244
23	64	55	134	87	145	119	210	151	164	183	220	215	229	247	251
24	20	56	73	88	82	120	159	152	98	184	172	216	182	248	234
25	45	57	102	89	117	121	183	153	127	185	202	217	211	249	245
26	37	58	109	90	120	122	190	154	136	186	205	218	214	250	246
27	70	59	141	91	152	123	215	155	169	187	224	219	232	251	252
28	49	60	113	92	128	124	196	156	146	188	212	220	219	252	248
29	76	61	149	93	162	125	222	157	179	189	230	221	236	253	253
30	81	62	155	94	167	126	227	158	184	190	235	222	238	254	254
31	121	63	194	95	201	127	243	159	208	191	247	223	249	255	255

[0177] Sequence Z29, having a sequence length of 128:

[0, 1, 4, 9, 2, 11, 7, 23, 3, 13, 16, 25, 10, 30, 31, 51, 5, 15, 12, 27, 20, 32, 38, 54, 19, 40, 33, 58, 43, 63, 66, 90, 6, 14, 22, 35, 17, 39, 36, 60, 24, 42, 47, 64, 49, 70, 72, 92, 28, 45, 52, 71, 55, 75, 77, 96, 61, 80, 84, 100, 86, 104, 106, 119, 8, 21, 18, 41, 29, 44, 48, 69, 26, 53, 46, 73, 56, 76, 81, 98, 34, 50, 57, 82, 62, 78, 83, 102, 67, 88, 89, 105, 94, 109, 111, 121, 37, 59, 65, 87, 68, 85, 91, 107, 74, 93, 97, 110, 99, 112, 114, 122, 79, 95, 101, 113, 103, 115, 117, 123, 108, 116, 118, 124, 120, 125, 126, 127]

[0178] Table Z29, having a sequence length of 128:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability

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0	0	16	5	32	6	48	28	64	8	80	34	96	37	112	79
1	1	17	15	33	14	49	45	65	21	81	50	97	59	113	95
2	4	18	12	34	22	50	52	66	18	82	57	98	65	114	101
3	9	19	27	35	35	51	71	67	41	83	82	99	87	115	113
4	2	20	20	36	17	52	55	68	29	84	62	100	68	116	103
5	11	21	32	37	39	53	75	69	44	85	78	101	85	117	115
6	7	22	38	38	36	54	77	70	48	86	83	102	91	118	117
7	23	23	54	39	60	55	96	71	69	87	102	103	107	119	123
8	3	24	19	40	24	56	61	72	26	88	67	104	74	120	108
9	13	25	40	41	42	57	80	73	53	89	88	105	93	121	116
10	16	26	33	42	47	58	84	74	46	90	89	106	97	122	118
11	25	27	58	43	64	59	100	75	73	91	105	107	110	123	124
12	10	28	43	44	49	60	86	76	56	92	94	108	99	124	120
13	30	29	63	45	70	61	104	77	76	93	109	109	112	125	125
14	31	30	66	46	72	62	106	78	81	94	111	110	114	126	126
15	51	31	90	47	92	63	119	79	98	95	121	111	122	127	127

[0179] Sequence Z30, having a sequence length of 64:

[0, 1, 4, 8, 2, 10, 7, 20, 3, 12, 15, 22, 9, 25, 26, 39, 5, 14, 11, 23, 18, 27, 31, 41, 17, 33, 28, 43, 35, 46, 48, 57, 6, 13, 19, 29, 16, 32, 30, 44, 21, 34, 37, 47, 38, 49, 51, 58, 24, 36, 40, 50, 42, 52, 53, 59, 45, 54, 55, 60, 56, 61, 62, 63]

[0180] Table Z30, having a sequence length of 64:

Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability	Polarized channel sequence number	Reliability or sequence number of reliability
0	0	8	3	16	5	24	17	32	6	40	21	48	24	56	45
1	1	9	12	17	14	25	33	33	13	41	34	49	36	57	54
2	4	10	15	18	11	26	28	34	19	42	37	50	40	58	55
3	8	11	22	19	23	27	43	35	29	43	47	51	50	59	60
4	2	12	9	20	18	28	35	36	16	44	38	52	42	60	56
5	10	13	25	21	27	29	46	37	32	45	49	53	52	61	61
6	7	14	26	22	31	30	48	38	30	46	51	54	53	62	62
7	20	15	39	23	41	31	57	39	44	47	58	55	59	63	63

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[0181] It should be noted that, the foregoing sequences are merely some examples. Use of the foregoing sequences in a polar code encoding process helps improve encoding/decoding performance of a polar code. In any one of the sequences described, adjustments or equivalent replacements in the following aspects may be made without affecting an overall effect.

[0182] 1. Positions of a small quantity of elements in a sequence are interchanged. For example, a position of a sequence number may be adjusted within a specified range. For example, the specified range is 5, and a position of an element whose sequence number is 10 may be adjusted within five positions to the left or right.

[0183] 2. Some of the elements in the sequence are adjusted, but channel sets for transmitting T bit information that are selected based on the sequence are consistent or similar.

[0184] 3. The sequence includes N elements starting from 0 and ending with N–1, and the N elements starting from 0 and ending with N–1 represent sequence numbers of N polarized channels. Actually, the sequence numbers of the N polarized channels may also start from 1 and end with N. This can be achieved by adding 1 to each sequence number in the foregoing sequence, and this is also a sequence number form in the foregoing calculation manners. Certainly, the sequence number or an identifier of the foregoing polarized channel may also be represented by using another manner. The specific representation manner does not affect a specific position of a polarized channel in a sequence;

[0185] 4. The sequence numbers of the N polarized channels in the foregoing sequence are arranged in ascending order of the reliability of the N polarized channels. In this case, selecting K polarized channels in descending order of reliability is selecting polarized channels that correspond to the last K sequence numbers in any of the foregoing sequences. Actually, the sequence numbers of the N polarized channels may also be arranged in descending order of the reliability of the N polarized channels. This can be achieved by arranging the elements in the foregoing sequence in a reverse or inverted order. In this case, selecting K polarized channels in descending order of reliability is selecting polarized channels that correspond to the first K sequence numbers; and

[0186] 5. The foregoing sequences may further be represented by using a normalized reliability or an equivalent reliability of each channel. For example, if a sequential position of a channel x in the foregoing sequence is n (a leftmost position is denoted as 1), a reliability of the channel may be represented as n or normalized n/N, where N is a length of the sequence.

[0187] Based on a same invention concept of the polar code encoding method shown in FIG. 2, as shown in FIG. 3, an embodiment of this application further provides a polar code encoding apparatus 300. The polar code encoding apparatus 300 is configured to perform the polar code encoding method shown in FIG. 2. Part or all of the polar code encoding method shown in FIG. 3 may be implemented by using hardware or may be implemented by using software. When part or all

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of the polar code encoding method is implemented by using hardware, the polar code encoding apparatus 300 includes: an input interface circuit 301, configured to obtain to-be-encoded bits; a logic circuit 302, configured to perform the polar code encoding method shown in FIG. 2, where for details, refer to the descriptions in the foregoing method embodiments, and details are not described herein again; and an output interface circuit 303, configured to output a bit sequence after encoding.

[0188] Further, the bit sequence that is obtained after the encoding and that is output by the encoding apparatus 300 is output to a transceiver 320 after being modulated by a modulator 310. The transceiver 320 performs corresponding processing (including but not limited to processing such as digital-to-analog conversion and/or frequency conversion) on the modulated sequence and sends the processed sequence by using an antenna 330.

[0189] Optionally, the polar code encoding apparatus 300 may be a chip or an integrated circuit during specific implementation.

[0190] Optionally, when part or all of the polar code encoding method in the foregoing embodiment is implemented by using software, as shown in FIG. 4, the polar code encoding apparatus 300 includes: a memory 401, configured to store a program; a processor 402, configured to execute the program stored in the memory 401. When the program is executed, the polar code encoding apparatus 300 is caused to implement the polar code encoding method provided in the embodiment in FIG. 2.

[0191] Optionally, the memory 401 may be a physically independent unit. Alternatively, as shown in FIG. 5, a memory 501 is integrated with a processor 502.

[0192] Optionally, when part of or all of the encoding method in the embodiment in FIG. 2 is implemented by using software, the polar code encoding apparatus 300 may include only the processor 402. The memory 401 configured to store the program is located outside the polar code encoding apparatus 300. The processor 402 is connected to the memory 401 by using a circuit/wire and is configured to read and execute the program stored in the memory 401.

[0193] The processor 402 may be a central processing unit (central processing unit, CPU), a network processor (network processor, NP), or a combination of a CPU and an NP.

[0194] The processor 402 may further include a hardware chip. The foregoing hardware chip may be an application-specific integrated circuit (application-specific integrated circuit, ASIC), a programmable logic device (programmable logic device, PLD), or a combination of an ASIC and a PLD. The foregoing PLD may be a complex programmable logical device (complex programmable logical device, CPLD), a field-programmable gate array (field-programmable gate array, FPGA), a generic array logic (generic array logic, GAL), or any combination thereof.

[0195] The memory in the foregoing embodiment may include a volatile memory (volatile

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memory), for example, a random-access memory (random-access memory, RAM). Alternatively, the memory may include a non-volatile memory (non-volatile memory), for example, a flash memory (flash memory), a hard disk drive (hard disk drive, HDD), or a solid-state drive (solid-state drive, SSD). Alternatively, the memory may include a combination of the foregoing types of memories.

[0196] Based on the polar code encoding method shown in FIG. 2, as shown in FIG. 6, an embodiment of this application further provides a polar code encoding apparatus 300. The polar code encoding apparatus 300 is configured to perform the polar code encoding method shown in FIG. 2. The polar code encoding apparatus 300 includes:

an obtaining unit 601, configured to obtain a first sequence used to encode K to-be-encoded bits, where the first sequence includes sequence numbers of N polarized channels, the sequence numbers of the N polarized channels are arranged in the first sequence based on reliability of the N polarized channels, K is a positive integer, N is a mother code length of a polar code, N is a positive integer power of 2, and $K \leq N$;

a selection unit 602, configured to select sequence numbers of K polarized channels from the first sequence in ascending order of the reliability; and

an encoding unit 603, configured to place the to-be-encoded bits based on the selected sequence numbers of the K polarized channels, and perform polar code encoding on the to-be-encoded bits.

[0197] The first sequence may be any one of the sequences described above, or may be a sequence obtained by selecting, from a second sequence having a length of N_{max}, sequence numbers (starting from 0) less than N. The second sequence may be any one of the sequences described above. A reliability of an i^{th} polarized channel in the N polarized channels may be determined by using any one of the formulas described above.

[0198] An embodiment of this application further provides a computer storage medium storing a computer program. The computer program is configured to perform the polar code encoding method shown in FIG. 2.

[0199] An embodiment of this application further provides a computer program product including an instruction. When run on a computer, the instruction causes the computer to perform the polar code encoding method shown in FIG. 2.

[0200] Persons skilled in the art should understand that the embodiments of this application may be provided as a method, a system, or a computer program product. Therefore, this application may use a form of hardware only embodiments, software only embodiments, or embodiments with a combination of software and hardware. Moreover, this application may use a form of a computer program product that is implemented on one or more computer-usable storage media (including but

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not limited to a disk memory, a CD-ROM, an optical memory, and the like) that include computer usable program code.

[0201] This application is described with reference to the flowcharts and/or block diagrams of the method, the device (system), and the computer program product according to the embodiments of this application. It should be understood that computer program instructions may be used to implement each process and/or each block in the flowcharts and/or the block diagrams and a combination of a process and/or a block in the flowcharts and/or the block diagrams. These computer program instructions may be provided for a general-purpose computer, a dedicated computer, an embedded processor, or a processor of any other programmable data processing device to generate a machine, so that the instructions executed by a computer or a processor of any other programmable data processing device generate an apparatus for implementing a specific function in one or more processes in the flowcharts and/or in one or more blocks in the block diagrams.

[0202] These computer program instructions may be stored in a computer readable memory that can instruct the computer or any other programmable data processing device to work in a specific manner, so that the instructions stored in the computer readable memory generate an artifact that includes an instruction apparatus. The instruction apparatus implements a specific function in one or more processes in the flowcharts and/or in one or more blocks in the block diagrams.

[0203] These computer program instructions may be loaded onto a computer or another programmable data processing device, so that a series of operations and steps are performed on the computer or the another programmable device, thereby generating computer-implemented processing. Therefore, the instructions executed on the computer or the another programmable device provide steps for implementing a specific function in one or more processes in the flowcharts and/or in one or more blocks in the block diagrams.

[0204] Although some preferred embodiments of this application have been described, persons skilled in the art can make changes and modifications to these embodiments once they learn the basic inventive concept. Therefore, the following claims are intended to be construed as to cover the preferred embodiments and all changes and modifications falling within the scope of this application.

[0205] Obviously, persons skilled in the art can make various modifications and variations to the embodiments of this application without departing from the spirit and scope of the embodiments of this application. This application is intended to cover these modifications and variations provided that they fall within the scope of protection defined by the following claims and their equivalent technologies.

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CLAIMS

What is claimed is:

1. An encoding method performed by an encoding apparatus, comprising:

obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes , $N = 2^n$, n is a positive integer, and $K \leq N$; wherein, the first sequence is a subset of a second sequence, the second sequence comprises N_{max} bit indexes, the N_{max} bit indexes are arranged in the second sequence based on reliability of the N_{max} bit indexes, $N \geq 64$, N_{max} is a positive integer, $N \leq N_{max}$;

selecting K bit indexes from the first sequence based on a reliability;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein, $N_{max}=1024$, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	128	518	256	94	384	214	512	364	640	414	768	819	896	966
1	1	129	54	257	204	385	309	513	654	641	223	769	814	897	755
2	2	130	83	258	298	386	188	514	659	642	663	770	439	898	859
3	4	131	57	259	400	387	449	515	335	643	692	771	929	899	940
4	8	132	521	260	608	388	217	516	480	644	835	772	490	900	830
5	16	133	112	261	352	389	408	517	315	645	619	773	623	901	911
6	32	134	135	262	325	390	609	518	221	646	472	774	671	902	871
7	3	135	78	263	533	391	596	519	370	647	455	775	739	903	639
8	5	136	289	264	155	392	551	520	613	648	796	776	916	904	888
9	64	137	194	265	210	393	650	521	422	649	809	777	463	905	479
10	9	138	85	266	305	394	229	522	425	650	714	778	843	906	946
11	6	139	276	267	547	395	159	523	451	651	721	779	381	907	750
12	17	140	522	268	300	396	420	524	614	652	837	780	497	908	969
13	10	141	58	269	109	397	310	525	543	653	716	781	930	909	508
14	18	142	168	270	184	398	541	526	235	654	864	782	821	910	861

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15	128	143	139	271	534	399	773	527	412	655	810	783	726	911	757
16	12	144	99	272	537	400	610	528	343	656	606	784	961	912	970
17	33	145	86	273	115	401	657	529	372	657	912	785	872	913	919
18	65	146	60	274	167	402	333	530	775	658	722	786	492	914	875
19	20	147	280	275	225	403	119	531	317	659	696	787	631	915	862
20	256	148	89	276	326	404	600	532	222	660	377	788	729	916	758
21	34	149	290	277	306	405	339	533	426	661	435	789	700	917	948
22	24	150	529	278	772	406	218	534	453	662	817	790	443	918	977
23	36	151	524	279	157	407	368	535	237	663	319	791	741	919	923
24	7	152	196	280	656	408	652	536	559	664	621	792	845	920	972
25	129	153	141	281	329	409	230	537	833	665	812	793	920	921	761
26	66	154	101	282	110	410	391	538	804	666	484	794	382	922	877
27	512	155	147	283	117	411	313	539	712	667	430	795	822	923	952
28	11	156	176	284	212	412	450	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	542	541	661	669	667	797	730	925	703
30	68	158	530	286	776	414	334	542	808	670	488	798	498	926	935
31	130	159	321	287	330	415	233	543	779	671	239	799	880	927	978
32	19	160	31	288	226	416	555	544	617	672	378	800	742	928	883
33	13	161	200	289	549	417	774	545	604	673	459	801	445	929	762
34	48	162	90	290	538	418	175	546	433	674	622	802	471	930	503
35	14	163	545	291	387	419	123	547	720	675	627	803	635	931	925
36	72	164	292	292	308	420	658	548	816	676	437	804	932	932	878
37	257	165	322	293	216	421	612	549	836	677	380	805	687	933	735
38	21	166	532	294	416	422	341	550	347	678	818	806	903	934	993
39	132	167	263	295	271	423	777	551	897	679	461	807	825	935	885
40	35	168	149	296	279	424	220	552	243	680	496	808	500	936	939
41	258	169	102	297	158	425	314	553	662	681	669	809	846	937	994
42	26	170	105	298	337	426	424	554	454	682	679	810	745	938	980
43	513	171	304	299	550	427	395	555	318	683	724	811	826	939	926
44	80	172	296	300	672	428	673	556	675	684	841	812	732	940	764
45	37	173	163	301	118	429	583	557	618	685	629	813	446	941	941
46	25	174	92	302	332	430	355	558	898	686	351	814	962	942	967
47	22	175	47	303	579	431	287	559	781	687	467	815	936	943	886
48	136	176	267	304	540	432	183	560	376	688	438	816	475	944	831
49	260	177	385	305	389	433	234	561	428	689	737	817	853	945	947
50	264	178	546	306	173	434	125	562	665	690	251	818	867	946	507
51	38	179	324	307	121	435	557	563	736	691	462	819	637	947	889
52	514	180	208	308	553	436	660	564	567	692	442	820	907	948	984

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53	96	181	386	309	199	437	616	565	840	693	441	821	487	949	751
54	67	182	150	310	784	438	342	566	625	694	469	822	695	950	942
55	41	183	153	311	179	439	316	567	238	695	247	823	746	951	996
56	144	184	165	312	228	440	241	568	359	696	683	824	828	952	971
57	28	185	106	313	338	441	778	569	457	697	842	825	753	953	890
58	69	186	55	314	312	442	563	570	399	698	738	826	854	954	509
59	42	187	328	315	704	443	345	571	787	699	899	827	857	955	949
60	516	188	536	316	390	444	452	572	591	700	670	828	504	956	973
61	49	189	577	317	174	445	397	573	678	701	783	829	799	957	1000
62	74	190	548	318	554	446	403	574	434	702	849	830	255	958	892
63	272	191	113	319	581	447	207	575	677	703	820	831	964	959	950
64	160	192	154	320	393	448	674	576	349	704	728	832	909	960	863
65	520	193	79	321	283	449	558	577	245	705	928	833	719	961	759
66	288	194	269	322	122	450	785	578	458	706	791	834	477	962	1008
67	528	195	108	323	448	451	432	579	666	707	367	835	915	963	510
68	192	196	578	324	353	452	357	580	620	708	901	836	638	964	979
69	544	197	224	325	561	453	187	581	363	709	630	837	748	965	953
70	70	198	166	326	203	454	236	582	127	710	685	838	944	966	763
71	44	199	519	327	63	455	664	583	191	711	844	839	869	967	974
72	131	200	552	328	340	456	624	584	782	712	633	840	491	968	954
73	81	201	195	329	394	457	587	585	407	713	711	841	699	969	879
74	50	202	270	330	527	458	780	586	436	714	253	842	754	970	981
75	73	203	641	331	582	459	705	587	626	715	691	843	858	971	982
76	15	204	523	332	556	460	126	588	571	716	824	844	478	972	927
77	320	205	275	333	181	461	242	589	465	717	902	845	968	973	995
78	133	206	580	334	295	462	565	590	681	718	686	846	383	974	765
79	52	207	291	335	285	463	398	591	246	719	740	847	910	975	956
80	23	208	59	336	232	464	346	592	707	720	850	848	815	976	887
81	134	209	169	337	124	465	456	593	350	721	375	849	976	977	985
82	384	210	560	338	205	466	358	594	599	722	444	850	870	978	997
83	76	211	114	339	182	467	405	595	668	723	470	851	917	979	986
84	137	212	277	340	643	468	303	596	790	724	483	852	727	980	943
85	82	213	156	341	562	469	569	597	460	725	415	853	493	981	891
86	56	214	87	342	286	470	244	598	249	726	485	854	873	982	998
87	27	215	197	343	585	471	595	599	682	727	905	855	701	983	766
88	97	216	116	344	299	472	189	600	573	728	795	856	931	984	511
89	39	217	170	345	354	473	566	601	411	729	473	857	756	985	988
90	259	218	61	346	211	474	676	602	803	730	634	858	860	986	1001

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91	84	219	531	347	401	475	361	603	789	731	744	859	499	987	951
92	138	220	525	348	185	476	706	604	709	732	852	860	731	988	1002
93	145	221	642	349	396	477	589	605	365	733	960	861	823	989	893
94	261	222	281	350	344	478	215	606	440	734	865	862	922	990	975
95	29	223	278	351	586	479	786	607	628	735	693	863	874	991	894
96	43	224	526	352	645	480	647	608	689	736	797	864	918	992	1009
97	98	225	177	353	593	481	348	609	374	737	906	865	502	993	955
98	515	226	293	354	535	482	419	610	423	738	715	866	933	994	1004
99	88	227	388	355	240	483	406	611	466	739	807	867	743	995	1010
100	140	228	91	356	206	484	464	612	793	740	474	868	760	996	957
101	30	229	584	357	95	485	680	613	250	741	636	869	881	997	983
102	146	230	769	358	327	486	801	614	371	742	694	870	494	998	958
103	71	231	198	359	564	487	362	615	481	743	254	871	702	999	987
104	262	232	172	360	800	488	590	616	574	744	717	872	921	1000	1012
105	265	233	120	361	402	489	409	617	413	745	575	873	501	1001	999
106	161	234	201	362	356	490	570	618	603	746	913	874	876	1002	1016
107	576	235	336	363	307	491	788	619	366	747	798	875	847	1003	767
108	45	236	62	364	301	492	597	620	468	748	811	876	992	1004	989
109	100	237	282	365	417	493	572	621	655	749	379	877	447	1005	1003
110	640	238	143	366	213	494	219	622	900	750	697	878	733	1006	990
111	51	239	103	367	568	495	311	623	805	751	431	879	827	1007	1005
112	148	240	178	368	832	496	708	624	615	752	607	880	934	1008	959
113	46	241	294	369	588	497	598	625	684	753	489	881	882	1009	1011
114	75	242	93	370	186	498	601	626	710	754	866	882	937	1010	1013
115	266	243	644	371	646	499	651	627	429	755	723	883	963	1011	895
116	273	244	202	372	404	500	421	628	794	756	486	884	747	1012	1006
117	517	245	592	373	227	501	792	629	252	757	908	885	505	1013	1014
118	104	246	323	374	896	502	802	630	373	758	718	886	855	1014	1017
119	162	247	392	375	594	503	611	631	605	759	813	887	924	1015	1018
120	53	248	297	376	418	504	602	632	848	760	476	888	734	1016	991
121	193	249	770	377	302	505	410	633	690	761	856	889	829	1017	1020
122	152	250	107	378	649	506	231	634	713	762	839	890	965	1018	1007
123	77	251	180	379	771	507	688	635	632	763	725	891	938	1019	1015
124	164	252	151	380	360	508	653	636	482	764	698	892	884	1020	1019
125	768	253	209	381	539	509	248	637	806	765	914	893	506	1021	1021
126	268	254	284	382	111	510	369	638	427	766	752	894	749	1022	1022
127	274	255	648	383	331	511	190	639	904	767	868	895	945	1023	1023

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2. An encoding method performed by an encoding apparatus, comprising:

obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes , $N = 2^n$, n is a positive integer, and $K \leq N$; wherein, the first sequence is a subset of a second sequence, the second sequence comprises N_{max} bit indexes, the N_{max} bit indexes are arranged in the second sequence based on reliability of the N_{max} bit indexes, $N \geq 64$, N_{max} is a positive integer, $N \leq N_{max}$;

selecting K bit indexes from the first sequence based on a reliability;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein, $N_{max}=512$, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	64	44	128	139	192	388	256	338	320	450	384	343	448	461
1	1	65	131	129	99	193	91	257	312	321	334	385	372	449	496
2	2	66	81	130	86	194	198	258	390	322	233	386	317	450	351
3	4	67	50	131	60	195	172	259	174	323	175	387	222	451	467
4	8	68	73	132	280	196	120	260	393	324	123	388	426	452	438
5	16	69	15	133	89	197	201	261	283	325	341	389	453	453	251
6	32	70	320	134	290	198	336	262	122	326	220	390	237	454	462
7	3	71	133	135	196	199	62	263	448	327	314	391	433	455	442
8	5	72	52	136	141	200	282	264	353	328	424	392	347	456	441
9	64	73	23	137	101	201	143	265	203	329	395	393	243	457	469
10	9	74	134	138	147	202	103	266	63	330	355	394	454	458	247
11	6	75	384	139	176	203	178	267	340	331	287	395	318	459	367
12	17	76	76	140	142	204	294	268	394	332	183	396	376	460	253
13	10	77	137	141	321	205	93	269	181	333	234	397	428	461	375
14	18	78	82	142	31	206	202	270	295	334	125	398	238	462	444
15	128	79	56	143	200	207	323	271	285	335	342	399	359	463	470
16	12	80	27	144	90	208	392	272	232	336	316	400	457	464	483
17	33	81	97	145	292	209	297	273	124	337	241	401	399	465	415
18	65	82	39	146	322	210	107	274	205	338	345	402	434	466	485

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19	20	83	259	147	263	211	180	275	182	339	452	403	349	467	473
20	256	84	84	148	149	212	151	276	286	340	397	404	245	468	474
21	34	85	138	149	102	213	209	277	299	341	403	405	458	469	254
22	24	86	145	150	105	214	284	278	354	342	207	406	363	470	379
23	36	87	261	151	304	215	94	279	211	343	432	407	127	471	431
24	7	88	29	152	296	216	204	280	401	344	357	408	191	472	489
25	129	89	43	153	163	217	298	281	185	345	187	409	407	473	486
26	66	90	98	154	92	218	400	282	396	346	236	410	436	474	476
27	11	91	88	155	47	219	352	283	344	347	126	411	465	475	439
28	40	92	140	156	267	220	325	284	240	348	242	412	246	476	490
29	68	93	30	157	385	221	155	285	206	349	398	413	350	477	463
30	130	94	146	158	324	222	210	286	95	350	346	414	460	478	381
31	19	95	71	159	208	223	305	287	327	351	456	415	249	479	497
32	13	96	262	160	386	224	300	288	402	352	358	416	411	480	492
33	48	97	265	161	150	225	109	289	356	353	405	417	365	481	443
34	14	98	161	162	153	226	184	290	307	354	303	418	440	482	382
35	72	99	45	163	165	227	115	291	301	355	244	419	374	483	498
36	257	100	100	164	106	228	167	292	417	356	189	420	423	484	445
37	21	101	51	165	55	229	225	293	213	357	361	421	466	485	471
38	132	102	148	166	328	230	326	294	186	358	215	422	250	486	500
39	35	103	46	167	113	231	306	295	404	359	348	423	371	487	446
40	258	104	75	168	154	232	157	296	227	360	419	424	481	488	475
41	26	105	266	169	79	233	329	297	418	361	406	425	413	489	487
42	80	106	273	170	269	234	110	298	302	362	464	426	366	490	504
43	37	107	104	171	108	235	117	299	360	363	362	427	468	491	255
44	25	108	162	172	224	236	212	300	111	364	409	428	429	492	477
45	22	109	53	173	166	237	171	301	331	365	219	429	252	493	491
46	136	110	193	174	195	238	330	302	214	366	311	430	373	494	478
47	260	111	152	175	270	239	226	303	309	367	421	431	482	495	383
48	264	112	77	176	275	240	387	304	188	368	410	432	427	496	493
49	38	113	164	177	291	241	308	305	449	369	231	433	414	497	499
50	96	114	268	178	59	242	216	306	217	370	248	434	223	498	502
51	67	115	274	179	169	243	416	307	408	371	369	435	472	499	494
52	41	116	54	180	114	244	271	308	229	372	190	436	455	500	501
53	144	117	83	181	277	245	279	309	159	373	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	374	335	438	435	502	505
55	69	119	112	183	87	247	337	311	310	375	480	439	319	503	506
56	42	120	135	184	197	248	118	312	333	376	315	440	484	504	479

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57	49	121	78	185	116	249	332	313	119	377	221	441	430	505	508
58	74	122	289	186	170	250	389	314	339	378	370	442	488	506	495
59	272	123	194	187	61	251	173	315	218	379	422	443	239	507	503
60	160	124	85	188	281	252	121	316	368	380	425	444	378	508	507
61	288	125	276	189	278	253	199	317	230	381	451	445	459	509	509
62	192	126	58	190	177	254	179	318	391	382	235	446	437	510	510
63	70	127	168	191	293	255	228	319	313	383	412	447	380	511	511

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3. An encoding method performed by an encoding apparatus, comprising:

obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein N=1024, the first sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Rcliability or scquencc number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	128	518	256	94	384	214	512	364	640	414	768	819	896	966
1	1	129	54	257	204	385	309	513	654	641	223	769	814	897	755
2	2	130	83	258	298	386	188	514	659	642	663	770	439	898	859
3	4	131	57	259	400	387	449	515	335	643	692	771	929	899	940
4	8	132	521	260	608	388	217	516	480	644	835	772	490	900	830
5	16	133	112	261	352	389	408	517	315	645	619	773	623	901	911
6	32	134	135	262	325	390	609	518	221	646	472	774	671	902	871
7	3	135	78	263	533	391	596	519	370	647	455	775	739	903	639
8	5	136	289	264	155	392	551	520	613	648	796	776	916	904	888
9	64	137	194	265	210	393	650	521	422	649	809	777	463	905	479
10	9	138	85	266	305	394	229	522	425	650	714	778	843	906	946
11	6	139	276	267	547	395	159	523	451	651	721	779	381	907	750
12	17	140	522	268	300	396	420	524	614	652	837	780	497	908	969
13	10	141	58	269	109	397	310	525	543	653	716	781	930	909	508

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14	18	142	168	270	184	398	541	526	235	654	864	782	821	910	861
15	128	143	139	271	534	399	773	527	412	655	810	783	726	911	757
16	12	144	99	272	537	400	610	528	343	656	606	784	961	912	970
17	33	145	86	273	115	401	657	529	372	657	912	785	872	913	919
18	65	146	60	274	167	402	333	530	775	658	722	786	492	914	875
19	20	147	280	275	225	403	119	531	317	659	696	787	631	915	862
20	256	148	89	276	326	404	600	532	222	660	377	788	729	916	758
21	34	149	290	277	306	405	339	533	426	661	435	789	700	917	948
22	24	150	529	278	772	406	218	534	453	662	817	790	443	918	977
23	36	151	524	279	157	407	368	535	237	663	319	791	741	919	923
24	7	152	196	280	656	408	652	536	559	664	621	792	845	920	972
25	129	153	141	281	329	409	230	537	833	665	812	793	920	921	761
26	66	154	101	282	110	410	391	538	804	666	484	794	382	922	877
27	512	155	147	283	117	411	313	539	712	667	430	795	822	923	952
28	11	156	176	284	212	412	450	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	542	541	661	669	667	797	730	925	703
30	68	158	530	286	776	414	334	542	808	670	488	798	498	926	935
31	130	159	321	287	330	415	233	543	779	671	239	799	880	927	978
32	19	160	31	288	226	416	555	544	617	672	378	800	742	928	883
33	13	161	200	289	549	417	774	545	604	673	459	801	445	929	762
34	48	162	90	290	538	418	175	546	433	674	622	802	471	930	503
35	14	163	545	291	387	419	123	547	720	675	627	803	635	931	925
36	72	164	292	292	308	420	658	548	816	676	437	804	932	932	878
37	257	165	322	293	216	421	612	549	836	677	380	805	687	933	735
38	21	166	532	294	416	422	341	550	347	678	818	806	903	934	993
39	132	167	263	295	271	423	777	551	897	679	461	807	825	935	885
40	35	168	149	296	279	424	220	552	243	680	496	808	500	936	939
41	258	169	102	297	158	425	314	553	662	681	669	809	846	937	994
42	26	170	105	298	337	426	424	554	454	682	679	810	745	938	980
43	513	171	304	299	550	427	395	555	318	683	724	811	826	939	926
44	80	172	296	300	672	428	673	556	675	684	841	812	732	940	764
45	37	173	163	301	118	429	583	557	618	685	629	813	446	941	941
46	25	174	92	302	332	430	355	558	898	686	351	814	962	942	967
47	22	175	47	303	579	431	287	559	781	687	467	815	936	943	886
48	136	176	267	304	540	432	183	560	376	688	438	816	475	944	831
49	260	177	385	305	389	433	234	561	428	689	737	817	853	945	947
50	264	178	546	306	173	434	125	562	665	690	251	818	867	946	507
51	38	179	324	307	121	435	557	563	736	691	462	819	637	947	889

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52	514	180	208	308	553	436	660	564	567	692	442	820	907	948	984
53	96	181	386	309	199	437	616	565	840	693	441	821	487	949	751
54	67	182	150	310	784	438	342	566	625	694	469	822	695	950	942
55	41	183	153	311	179	439	316	567	238	695	247	823	746	951	996
56	144	184	165	312	228	440	241	568	359	696	683	824	828	952	971
57	28	185	106	313	338	441	778	569	457	697	842	825	753	953	890
58	69	186	55	314	312	442	563	570	399	698	738	826	854	954	509
59	42	187	328	315	704	443	345	571	787	699	899	827	857	955	949
60	516	188	536	316	390	444	452	572	591	700	670	828	504	956	973
61	49	189	577	317	174	445	397	573	678	701	783	829	799	957	1000
62	74	190	548	318	554	446	403	574	434	702	849	830	255	958	892
63	272	191	113	319	581	447	207	575	677	703	820	831	964	959	950
64	160	192	154	320	393	448	674	576	349	704	728	832	909	960	863
65	520	193	79	321	283	449	558	577	245	705	928	833	719	961	759
66	288	194	269	322	122	450	785	578	458	706	791	834	477	962	1008
67	528	195	108	323	448	451	432	579	666	707	367	835	915	963	510
68	192	196	578	324	353	452	357	580	620	708	901	836	638	964	979
69	544	197	224	325	561	453	187	581	363	709	630	837	748	965	953
70	70	198	166	326	203	454	236	582	127	710	685	838	944	966	763
71	44	199	519	327	63	455	664	583	191	711	844	839	869	967	974
72	131	200	552	328	340	456	624	584	782	712	633	840	491	968	954
73	81	201	195	329	394	457	587	585	407	713	711	841	699	969	879
74	50	202	270	330	527	458	780	586	436	714	253	842	754	970	981
75	73	203	641	331	582	459	705	587	626	715	691	843	858	971	982
76	15	204	523	332	556	460	126	588	571	716	824	844	478	972	927
77	320	205	275	333	181	461	242	589	465	717	902	845	968	973	995
78	133	206	580	334	295	462	565	590	681	718	686	846	383	974	765
79	52	207	291	335	285	463	398	591	246	719	740	847	910	975	956
80	23	208	59	336	232	464	346	592	707	720	850	848	815	976	887
81	134	209	169	337	124	465	456	593	350	721	375	849	976	977	985
82	384	210	560	338	205	466	358	594	599	722	444	850	870	978	997
83	76	211	114	339	182	467	405	595	668	723	470	851	917	979	986
84	137	212	277	340	643	468	303	596	790	724	483	852	727	980	943
85	82	213	156	341	562	469	569	597	460	725	415	853	493	981	891
86	56	214	87	342	286	470	244	598	249	726	485	854	873	982	998
87	27	215	197	343	585	471	595	599	682	727	905	855	701	983	766
88	97	216	116	344	299	472	189	600	573	728	795	856	931	984	511
89	39	217	170	345	354	473	566	601	411	729	473	857	756	985	988

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90	259	218	61	346	211	474	676	602	803	730	634	858	860	986	1001
91	84	219	531	347	401	475	361	603	789	731	744	859	499	987	951
92	138	220	525	348	185	476	706	604	709	732	852	860	731	988	1002
93	145	221	642	349	396	477	589	605	365	733	960	861	823	989	893
94	261	222	281	350	344	478	215	606	440	734	865	862	922	990	975
95	29	223	278	351	586	479	786	607	628	735	693	863	874	991	894
96	43	224	526	352	645	480	647	608	689	736	797	864	918	992	1009
97	98	225	177	353	593	481	348	609	374	737	906	865	502	993	955
98	515	226	293	354	535	482	419	610	423	738	715	866	933	994	1004
99	88	227	388	355	240	483	406	611	466	739	807	867	743	995	1010
100	140	228	91	356	206	484	464	612	793	740	474	868	760	996	957
101	30	229	584	357	95	485	680	613	250	741	636	869	881	997	983
102	146	230	769	358	327	486	801	614	371	742	694	870	494	998	958
103	71	231	198	359	564	487	362	615	481	743	254	871	702	999	987
104	262	232	172	360	800	488	590	616	574	744	717	872	921	1000	1012
105	265	233	120	361	402	489	409	617	413	745	575	873	501	1001	999
106	161	234	201	362	356	490	570	618	603	746	913	874	876	1002	1016
107	576	235	336	363	307	491	788	619	366	747	798	875	847	1003	767
108	45	236	62	364	301	492	597	620	468	748	811	876	992	1004	989
109	100	237	282	365	417	493	572	621	655	749	379	877	447	1005	1003
110	640	238	143	366	213	494	219	622	900	750	697	878	733	1006	990
111	51	239	103	367	568	495	311	623	805	751	431	879	827	1007	1005
112	148	240	178	368	832	496	708	624	615	752	607	880	934	1008	959
113	46	241	294	369	588	497	598	625	684	753	489	881	882	1009	1011
114	75	242	93	370	186	498	601	626	710	754	866	882	937	1010	1013
115	266	243	644	371	646	499	651	627	429	755	723	883	963	1011	895
116	273	244	202	372	404	500	421	628	794	756	486	884	747	1012	1006
117	517	245	592	373	227	501	792	629	252	757	908	885	505	1013	1014
118	104	246	323	374	896	502	802	630	373	758	718	886	855	1014	1017
119	162	247	392	375	594	503	611	631	605	759	813	887	924	1015	1018
120	53	248	297	376	418	504	602	632	848	760	476	888	734	1016	991
121	193	249	770	377	302	505	410	633	690	761	856	889	829	1017	1020
122	152	250	107	378	649	506	231	634	713	762	839	890	965	1018	1007
123	77	251	180	379	771	507	688	635	632	763	725	891	938	1019	1015
124	164	252	151	380	360	508	653	636	482	764	698	892	884	1020	1019
125	768	253	209	381	539	509	248	637	806	765	914	893	506	1021	1021
126	268	254	284	382	111	510	369	638	427	766	752	894	749	1022	1022
127	274	255	648	383	331	511	190	639	904	767	868	895	945	1023	1023

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4. An encoding method performed by an encoding apparatus, comprising:

obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein N = 512, the first sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	64	44	128	139	192	388	256	338	320	450	384	343	448	461
1	1	65	131	129	99	193	91	257	312	321	334	385	372	449	496
2	2	66	81	130	86	194	198	258	390	322	233	386	317	450	351
3	4	67	50	131	60	195	172	259	174	323	175	387	222	451	467
4	8	68	73	132	280	196	120	260	393	324	123	388	426	452	438
5	16	69	15	133	89	197	201	261	283	325	341	389	453	453	251
6	32	70	320	134	290	198	336	262	122	326	220	390	237	454	462
7	3	71	133	135	196	199	62	263	448	327	314	391	433	455	442
8	5	72	52	136	141	200	282	264	353	328	424	392	347	456	441
9	64	73	23	137	101	201	143	265	203	329	395	393	243	457	469
10	9	74	134	138	147	202	103	266	63	330	355	394	454	458	247
11	6	75	384	139	176	203	178	267	340	331	287	395	318	459	367
12	17	76	76	140	142	204	294	268	394	332	183	396	376	460	253
13	10	77	137	141	321	205	93	269	181	333	234	397	428	461	375
14	18	78	82	142	31	206	202	270	295	334	125	398	238	462	444
15	128	79	56	143	200	207	323	271	285	335	342	399	359	463	470
16	12	80	27	144	90	208	392	272	232	336	316	400	457	464	483
17	33	81	97	145	292	209	297	273	124	337	241	401	399	465	415
18	65	82	39	146	322	210	107	274	205	338	345	402	434	466	485
19	20	83	259	147	263	211	180	275	182	339	452	403	349	467	473
20	256	84	84	148	149	212	151	276	286	340	397	404	245	468	474

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21	34	85	138	149	102	213	209	277	299	341	403	405	458	469	254
22	24	86	145	150	105	214	284	278	354	342	207	406	363	470	379
23	36	87	261	151	304	215	94	279	211	343	432	407	127	471	431
24	7	88	29	152	296	216	204	280	401	344	357	408	191	472	489
25	129	89	43	153	163	217	298	281	185	345	187	409	407	473	486
26	66	90	98	154	92	218	400	282	396	346	236	410	436	474	476
27	11	91	88	155	47	219	352	283	344	347	126	411	465	475	439
28	40	92	140	156	267	220	325	284	240	348	242	412	246	476	490
29	68	93	30	157	385	221	155	285	206	349	398	413	350	477	463
30	130	94	146	158	324	222	210	286	95	350	346	414	460	478	381
31	19	95	71	159	208	223	305	287	327	351	456	415	249	479	497
32	13	96	262	160	386	224	300	288	402	352	358	416	411	480	492
33	48	97	265	161	150	225	109	289	356	353	405	417	365	481	443
34	14	98	161	162	153	226	184	290	307	354	303	418	440	482	382
35	72	99	45	163	165	227	115	291	301	355	244	419	374	483	498
36	257	100	100	164	106	228	167	292	417	356	189	420	423	484	445
37	21	101	51	165	55	229	225	293	213	357	361	421	466	485	471
38	132	102	148	166	328	230	326	294	186	358	215	422	250	486	500
39	35	103	46	167	113	231	306	295	404	359	348	423	371	487	446
40	258	104	75	168	154	232	157	296	227	360	419	424	481	488	475
41	26	105	266	169	79	233	329	297	418	361	406	425	413	489	487
42	80	106	273	170	269	234	110	298	302	362	464	426	366	490	504
43	37	107	104	171	108	235	117	299	360	363	362	427	468	491	255
44	25	108	162	172	224	236	212	300	111	364	409	428	429	492	477
45	22	109	53	173	166	237	171	301	331	365	219	429	252	493	491
46	136	110	193	174	195	238	330	302	214	366	311	430	373	494	478
47	260	111	152	175	270	239	226	303	309	367	421	431	482	495	383
48	264	112	77	176	275	240	387	304	188	368	410	432	427	496	493
49	38	113	164	177	291	241	308	305	449	369	231	433	414	497	499
50	96	114	268	178	59	242	216	306	217	370	248	434	223	498	502
51	67	115	274	179	169	243	416	307	408	371	369	435	472	499	494
52	41	116	54	180	114	244	271	308	229	372	190	436	455	500	501
53	144	117	83	181	277	245	279	309	159	373	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	374	335	438	435	502	505
55	69	119	112	183	87	247	337	311	310	375	480	439	319	503	506
56	42	120	135	184	197	248	118	312	333	376	315	440	484	504	479
57	49	121	78	185	116	249	332	313	119	377	221	441	430	505	508
58	74	122	289	186	170	250	389	314	339	378	370	442	488	506	495

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59	272	123	194	187	61	251	173	315	218	379	422	443	239	507	503
60	160	124	85	188	281	252	121	316	368	380	425	444	378	508	507
61	288	125	276	189	278	253	199	317	230	381	451	445	459	509	509
62	192	126	58	190	177	254	179	318	391	382	235	446	437	510	510
63	70	127	168	191	293	255	228	319	313	383	412	447	380	511	511

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5. An encoding method performed by an encoding apparatus, comprising:

obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein N=256, the first sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	32	48	64	52	96	152	128	47	160	178	192	203	224	207
1	1	33	14	65	23	97	77	129	208	161	93	193	63	225	187
2	2	34	72	66	134	98	164	130	150	162	202	194	181	226	236
3	4	35	21	67	76	99	54	131	153	163	107	195	232	227	126
4	8	36	132	68	137	100	83	132	165	164	180	196	124	228	242
5	16	37	35	69	82	101	57	133	106	165	151	197	205	229	244
6	32	38	26	70	56	102	112	134	55	166	209	198	182	230	189
7	3	39	80	71	27	103	135	135	113	167	94	199	211	231	215
8	5	40	37	72	97	104	78	136	154	168	204	200	185	232	219
9	64	41	25	73	39	105	194	137	79	169	155	201	240	233	231
10	9	42	22	74	84	106	85	138	108	170	210	202	206	234	248
11	6	43	136	75	138	107	58	139	224	171	109	203	95	235	190
12	17	44	38	76	145	108	168	140	166	172	184	204	213	236	221
13	10	45	96	77	29	109	139	141	195	173	115	205	186	237	235
14	18	46	67	78	43	110	99	142	59	174	167	206	227	238	222
15	128	47	41	79	98	111	86	143	169	175	225	207	111	239	237
16	12	48	144	80	88	112	60	144	114	176	157	208	214	240	243

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17	33	49	28	81	140	113	89	145	156	177	110	209	188	241	238
18	65	50	69	82	30	114	196	146	87	178	117	210	217	242	245
19	20	51	42	83	146	115	141	147	197	179	212	211	229	243	127
20	34	52	49	84	71	116	101	148	116	180	171	212	159	244	191
21	24	53	74	85	161	117	147	149	170	181	226	213	119	245	246
22	36	54	160	86	45	118	176	150	61	182	216	214	218	246	249
23	7	55	192	87	100	119	142	151	177	183	158	215	230	247	250
24	129	56	70	88	51	120	31	152	91	184	118	216	233	248	252
25	66	57	44	89	148	121	200	153	198	185	173	217	175	249	223
26	11	58	131	90	46	122	90	154	172	186	121	218	123	250	239
27	40	59	81	91	75	123	149	155	120	187	199	219	220	251	251
28	68	60	50	92	104	124	102	156	201	188	179	220	183	252	247
29	130	61	73	93	162	125	105	157	62	189	228	221	234	253	253
30	19	62	15	94	53	126	163	158	143	190	174	222	125	254	254
31	13	63	133	95	193	127	92	159	103	191	122	223	241	255	255

.

6. An encoding method performed by an encoding apparatus, comprising:

obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein N = 128, the first sequence is the sequence shown in the following table;

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	16	33	32	21	48	70	64	43	80	112	96	55	112	109
1	1	17	65	33	35	49	44	65	98	81	78	97	113	113	115
2	2	18	20	34	26	50	81	66	88	82	85	98	79	114	110
3	4	19	34	35	80	51	50	67	30	83	58	99	108	115	117
4	8	20	24	36	37	52	73	68	71	84	99	100	59	116	118
5	16	21	36	37	25	53	15	69	45	85	86	101	114	117	121

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6	32	22	7	38	22	54	52	70	100	86	60	102	87	118	122
7	3	23	66	39	38	55	23	71	51	87	89	103	116	119	63
8	5	24	11	40	96	56	76	72	46	88	101	104	61	120	124
9	64	25	40	41	67	57	82	73	75	89	31	105	91	121	95
10	9	26	68	42	41	58	56	74	104	90	90	106	120	122	111
11	6	27	19	43	28	59	27	75	53	91	102	107	62	123	119
12	17	28	13	44	69	60	97	76	77	92	105	108	103	124	123
13	10	29	48	45	42	61	39	77	54	93	92	109	93	125	125
14	18	30	14	46	49	62	84	78	83	94	47	110	107	126	126
15	12	31	72	47	74	63	29	79	57	95	106	111	94	127	127

.

7. An encoding method performed by an encoding apparatus, comprising:

obtaining, a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein N = 64, the first sequence is the sequence shown in the following table;

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	8	5	16	20	24	13	32	22	40	15	48	30	56	60
1	1	9	9	17	34	25	48	33	38	41	52	49	45	57	31
2	2	10	6	18	24	26	14	34	41	42	23	50	51	58	47
3	4	11	17	19	36	27	21	35	28	43	56	51	46	59	55
4	8	12	10	20	7	28	35	36	42	44	27	52	53	60	59
5	16	13	18	21	11	29	26	37	49	45	39	53	54	61	61
6	32	14	12	22	40	30	37	38	44	46	29	54	57	62	62
7	3	15	33	23	19	31	25	39	50	47	43	55	58	63	63

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8. The method according to claim 1 or 2, wherein the second sequence is prestored.

9. The method according to any one of claims 1 to 8, wherein the K to-be-encoded bits comprise

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a cyclic redundancy check bit.

10. The method according to any one of claims 1 to 9, wherein the K to-be-encoded bits comprise a parity check bit.

11. The method according to any one of claims 1 to 10, wherein after performing the polar code encoding on the to-be-encoded bits, the encoding apparatus performs, based on a target code length, rate matching on a sequence obtained after the polar code encoding.

12. An encoding apparatus, comprising:

an obtaining unit, configured to obtain a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$; wherein, the first sequence is a subset of the second sequence, the second sequence comprises N_{max} bit indexes, the N_{max} bit indexes are arranged in the second sequence based on reliability of the N_{max} bit indexes, $N \geq 64$, N_{max} is a positive integer, $N \leq N_{max}$;

a selection unit, configured to select K bit indexes from the first sequence based on a reliability; and

an encoding unit, configured to place the to-be-encoded bits based on the selected K bit indexes, and perform polar code encoding on the to-be-encoded bits;

wherein, $N_{max} = 1024$, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Rcliability or sequcnce number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	128	518	256	94	384	214	512	364	640	414	768	819	896	966
1	1	129	54	257	204	385	309	513	654	641	223	769	814	897	755
2	2	130	83	258	298	386	188	514	659	642	663	770	439	898	859
3	4	131	57	259	400	387	449	515	335	643	692	771	929	899	940
4	8	132	521	260	608	388	217	516	480	644	835	772	490	900	830
5	16	133	112	261	352	389	408	517	315	645	619	773	623	901	911
6	32	134	135	262	325	390	609	518	221	646	472	774	671	902	871
7	3	135	78	263	533	391	596	519	370	647	455	775	739	903	639
8	5	136	289	264	155	392	551	520	613	648	796	776	916	904	888
9	64	137	194	265	210	393	650	521	422	649	809	777	463	905	479
10	9	138	85	266	305	394	229	522	425	650	714	778	843	906	946

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11	6	139	276	267	547	395	159	523	451	651	721	779	381	907	750
12	17	140	522	268	300	396	420	524	614	652	837	780	497	908	969
13	10	141	58	269	109	397	310	525	543	653	716	781	930	909	508
14	18	142	168	270	184	398	541	526	235	654	864	782	821	910	861
15	128	143	139	271	534	399	773	527	412	655	810	783	726	911	757
16	12	144	99	272	537	400	610	528	343	656	606	784	961	912	970
17	33	145	86	273	115	401	657	529	372	657	912	785	872	913	919
18	65	146	60	274	167	402	333	530	775	658	722	786	492	914	875
19	20	147	280	275	225	403	119	531	317	659	696	787	631	915	862
20	256	148	89	276	326	404	600	532	222	660	377	788	729	916	758
21	34	149	290	277	306	405	339	533	426	661	435	789	700	917	948
22	24	150	529	278	772	406	218	534	453	662	817	790	443	918	977
23	36	151	524	279	157	407	368	535	237	663	319	791	741	919	923
24	7	152	196	280	656	408	652	536	559	664	621	792	845	920	972
25	129	153	141	281	329	409	230	537	833	665	812	793	920	921	761
26	66	154	101	282	110	410	391	538	804	666	484	794	382	922	877
27	512	155	147	283	117	411	313	539	712	667	430	795	822	923	952
28	11	156	176	284	212	412	450	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	542	541	661	669	667	797	730	925	703
30	68	158	530	286	776	414	334	542	808	670	488	798	498	926	935
31	130	159	321	287	330	415	233	543	779	671	239	799	880	927	978
32	19	160	31	288	226	416	555	544	617	672	378	800	742	928	883
33	13	161	200	289	549	417	774	545	604	673	459	801	445	929	762
34	48	162	90	290	538	418	175	546	433	674	622	802	471	930	503
35	14	163	545	291	387	419	123	547	720	675	627	803	635	931	925
36	72	164	292	292	308	420	658	548	816	676	437	804	932	932	878
37	257	165	322	293	216	421	612	549	836	677	380	805	687	933	735
38	21	166	532	294	416	422	341	550	347	678	818	806	903	934	993
39	132	167	263	295	271	423	777	551	897	679	461	807	825	935	885
40	35	168	149	296	279	424	220	552	243	680	496	808	500	936	939
41	258	169	102	297	158	425	314	553	662	681	669	809	846	937	994
42	26	170	105	298	337	426	424	554	454	682	679	810	745	938	980
43	513	171	304	299	550	427	395	555	318	683	724	811	826	939	926
44	80	172	296	300	672	428	673	556	675	684	841	812	732	940	764
45	37	173	163	301	118	429	583	557	618	685	629	813	446	941	941
46	25	174	92	302	332	430	355	558	898	686	351	814	962	942	967
47	22	175	47	303	579	431	287	559	781	687	467	815	936	943	886
48	136	176	267	304	540	432	183	560	376	688	438	816	475	944	831

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49	260	177	385	305	389	433	234	561	428	689	737	817	853	945	947
50	264	178	546	306	173	434	125	562	665	690	251	818	867	946	507
51	38	179	324	307	121	435	557	563	736	691	462	819	637	947	889
52	514	180	208	308	553	436	660	564	567	692	442	820	907	948	984
53	96	181	386	309	199	437	616	565	840	693	441	821	487	949	751
54	67	182	150	310	784	438	342	566	625	694	469	822	695	950	942
55	41	183	153	311	179	439	316	567	238	695	247	823	746	951	996
56	144	184	165	312	228	440	241	568	359	696	683	824	828	952	971
57	28	185	106	313	338	441	778	569	457	697	842	825	753	953	890
58	69	186	55	314	312	442	563	570	399	698	738	826	854	954	509
59	42	187	328	315	704	443	345	571	787	699	899	827	857	955	949
60	516	188	536	316	390	444	452	572	591	700	670	828	504	956	973
61	49	189	577	317	174	445	397	573	678	701	783	829	799	957	1000
62	74	190	548	318	554	446	403	574	434	702	849	830	255	958	892
63	272	191	113	319	581	447	207	575	677	703	820	831	964	959	950
64	160	192	154	320	393	448	674	576	349	704	728	832	909	960	863
65	520	193	79	321	283	449	558	577	245	705	928	833	719	961	759
66	288	194	269	322	122	450	785	578	458	706	791	834	477	962	1008
67	528	195	108	323	448	451	432	579	666	707	367	835	915	963	510
68	192	196	578	324	353	452	357	580	620	708	901	836	638	964	979
69	544	197	224	325	561	453	187	581	363	709	630	837	748	965	953
70	70	198	166	326	203	454	236	582	127	710	685	838	944	966	763
71	44	199	519	327	63	455	664	583	191	711	844	839	869	967	974
72	131	200	552	328	340	456	624	584	782	712	633	840	491	968	954
73	81	201	195	329	394	457	587	585	407	713	711	841	699	969	879
74	50	202	270	330	527	458	780	586	436	714	253	842	754	970	981
75	73	203	641	331	582	459	705	587	626	715	691	843	858	971	982
76	15	204	523	332	556	460	126	588	571	716	824	844	478	972	927
77	320	205	275	333	181	461	242	589	465	717	902	845	968	973	995
78	133	206	580	334	295	462	565	590	681	718	686	846	383	974	765
79	52	207	291	335	285	463	398	591	246	719	740	847	910	975	956
80	23	208	59	336	232	464	346	592	707	720	850	848	815	976	887
81	134	209	169	337	124	465	456	593	350	721	375	849	976	977	985
82	384	210	560	338	205	466	358	594	599	722	444	850	870	978	997
83	76	211	114	339	182	467	405	595	668	723	470	851	917	979	986
84	137	212	277	340	643	468	303	596	790	724	483	852	727	980	943
85	82	213	156	341	562	469	569	597	460	725	415	853	493	981	891
86	56	214	87	342	286	470	244	598	249	726	485	854	873	982	998

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87	27	215	197	343	585	471	595	599	682	727	905	855	701	983	766
88	97	216	116	344	299	472	189	600	573	728	795	856	931	984	511
89	39	217	170	345	354	473	566	601	411	729	473	857	756	985	988
90	259	218	61	346	211	474	676	602	803	730	634	858	860	986	1001
91	84	219	531	347	401	475	361	603	789	731	744	859	499	987	951
92	138	220	525	348	185	476	706	604	709	732	852	860	731	988	1002
93	145	221	642	349	396	477	589	605	365	733	960	861	823	989	893
94	261	222	281	350	344	478	215	606	440	734	865	862	922	990	975
95	29	223	278	351	586	479	786	607	628	735	693	863	874	991	894
96	43	224	526	352	645	480	647	608	689	736	797	864	918	992	1009
97	98	225	177	353	593	481	348	609	374	737	906	865	502	993	955
98	515	226	293	354	535	482	419	610	423	738	715	866	933	994	1004
99	88	227	388	355	240	483	406	611	466	739	807	867	743	995	1010
100	140	228	91	356	206	484	464	612	793	740	474	868	760	996	957
101	30	229	584	357	95	485	680	613	250	741	636	869	881	997	983
102	146	230	769	358	327	486	801	614	371	742	694	870	494	998	958
103	71	231	198	359	564	487	362	615	481	743	254	871	702	999	987
104	262	232	172	360	800	488	590	616	574	744	717	872	921	1000	1012
105	265	233	120	361	402	489	409	617	413	745	575	873	501	1001	999
106	161	234	201	362	356	490	570	618	603	746	913	874	876	1002	1016
107	576	235	336	363	307	491	788	619	366	747	798	875	847	1003	767
108	45	236	62	364	301	492	597	620	468	748	811	876	992	1004	989
109	100	237	282	365	417	493	572	621	655	749	379	877	447	1005	1003
110	640	238	143	366	213	494	219	622	900	750	697	878	733	1006	990
111	51	239	103	367	568	495	311	623	805	751	431	879	827	1007	1005
112	148	240	178	368	832	496	708	624	615	752	607	880	934	1008	959
113	46	241	294	369	588	497	598	625	684	753	489	881	882	1009	1011
114	75	242	93	370	186	498	601	626	710	754	866	882	937	1010	1013
115	266	243	644	371	646	499	651	627	429	755	723	883	963	1011	895
116	273	244	202	372	404	500	421	628	794	756	486	884	747	1012	1006
117	517	245	592	373	227	501	792	629	252	757	908	885	505	1013	1014
118	104	246	323	374	896	502	802	630	373	758	718	886	855	1014	1017
119	162	247	392	375	594	503	611	631	605	759	813	887	924	1015	1018
120	53	248	297	376	418	504	602	632	848	760	476	888	734	1016	991
121	193	249	770	377	302	505	410	633	690	761	856	889	829	1017	1020
122	152	250	107	378	649	506	231	634	713	762	839	890	965	1018	1007
123	77	251	180	379	771	507	688	635	632	763	725	891	938	1019	1015
124	164	252	151	380	360	508	653	636	482	764	698	892	884	1020	1019

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125	768	253	209	381	539	509	248	637	806	765	914	893	506	1021	1021
126	268	254	284	382	111	510	369	638	427	766	752	894	749	1022	1022
127	274	255	648	383	331	511	190	639	904	767	868	895	945	1023	1023

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13. An encoding apparatus, comprising:

an obtaining unit, configured to obtain a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$; wherein, the first sequence is a subset of the second sequence, the second sequence comprises N_{max} bit indexes, the N_{max} bit indexes are arranged in the second sequence based on reliability of the N_{max} bit indexes, $N \geq 64$, N_{max} is a positive integer, $N \leq N_{max}$;

a selection unit, configured to select K bit indexes from the first sequence based on a reliability; and

an encoding unit, configured to place the to-be-encoded bits based on the selected K bit indexes, and perform polar code encoding on the to-be-encoded bits;

wherein, $N_{max} = 512$, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	64	44	128	139	192	388	256	338	320	450	384	343	448	461
1	1	65	131	129	99	193	91	257	312	321	334	385	372	449	496
2	2	66	81	130	86	194	198	258	390	322	233	386	317	450	351
3	4	67	50	131	60	195	172	259	174	323	175	387	222	451	467
4	8	68	73	132	280	196	120	260	393	324	123	388	426	452	438
5	16	69	15	133	89	197	201	261	283	325	341	389	453	453	251
6	32	70	320	134	290	198	336	262	122	326	220	390	237	454	462
7	3	71	133	135	196	199	62	263	448	327	314	391	433	455	442
8	5	72	52	136	141	200	282	264	353	328	424	392	347	456	441
9	64	73	23	137	101	201	143	265	203	329	395	393	243	457	469
10	9	74	134	138	147	202	103	266	63	330	355	394	454	458	247
11	6	75	384	139	176	203	178	267	340	331	287	395	318	459	367
12	17	76	76	140	142	204	294	268	394	332	183	396	376	460	253
13	10	77	137	141	321	205	93	269	181	333	234	397	428	461	375

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14	18	78	82	142	31	206	202	270	295	334	125	398	238	462	444
15	128	79	56	143	200	207	323	271	285	335	342	399	359	463	470
16	12	80	27	144	90	208	392	272	232	336	316	400	457	464	483
17	33	81	97	145	292	209	297	273	124	337	241	401	399	465	415
18	65	82	39	146	322	210	107	274	205	338	345	402	434	466	485
19	20	83	259	147	263	211	180	275	182	339	452	403	349	467	473
20	256	84	84	148	149	212	151	276	286	340	397	404	245	468	474
21	34	85	138	149	102	213	209	277	299	341	403	405	458	469	254
22	24	86	145	150	105	214	284	278	354	342	207	406	363	470	379
23	36	87	261	151	304	215	94	279	211	343	432	407	127	471	431
24	7	88	29	152	296	216	204	280	401	344	357	408	191	472	489
25	129	89	43	153	163	217	298	281	185	345	187	409	407	473	486
26	66	90	98	154	92	218	400	282	396	346	236	410	436	474	476
27	11	91	88	155	47	219	352	283	344	347	126	411	465	475	439
28	40	92	140	156	267	220	325	284	240	348	242	412	246	476	490
29	68	93	30	157	385	221	155	285	206	349	398	413	350	477	463
30	130	94	146	158	324	222	210	286	95	350	346	414	460	478	381
31	19	95	71	159	208	223	305	287	327	351	456	415	249	479	497
32	13	96	262	160	386	224	300	288	402	352	358	416	411	480	492
33	48	97	265	161	150	225	109	289	356	353	405	417	365	481	443
34	14	98	161	162	153	226	184	290	307	354	303	418	440	482	382
35	72	99	45	163	165	227	115	291	301	355	244	419	374	483	498
36	257	100	100	164	106	228	167	292	417	356	189	420	423	484	445
37	21	101	51	165	55	229	225	293	213	357	361	421	466	485	471
38	132	102	148	166	328	230	326	294	186	358	215	422	250	486	500
39	35	103	46	167	113	231	306	295	404	359	348	423	371	487	446
40	258	104	75	168	154	232	157	296	227	360	419	424	481	488	475
41	26	105	266	169	79	233	329	297	418	361	406	425	413	489	487
42	80	106	273	170	269	234	110	298	302	362	464	426	366	490	504
43	37	107	104	171	108	235	117	299	360	363	362	427	468	491	255
44	25	108	162	172	224	236	212	300	111	364	409	428	429	492	477
45	22	109	53	173	166	237	171	301	331	365	219	429	252	493	491
46	136	110	193	174	195	238	330	302	214	366	311	430	373	494	478
47	260	111	152	175	270	239	226	303	309	367	421	431	482	495	383
48	264	112	77	176	275	240	387	304	188	368	410	432	427	496	493
49	38	113	164	177	291	241	308	305	449	369	231	433	414	497	499
50	96	114	268	178	59	242	216	306	217	370	248	434	223	498	502
51	67	115	274	179	169	243	416	307	408	371	369	435	472	499	494

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52	41	116	54	180	114	244	271	308	229	372	190	436	455	500	501
53	144	117	83	181	277	245	279	309	159	373	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	374	335	438	435	502	505
55	69	119	112	183	87	247	337	311	310	375	480	439	319	503	506
56	42	120	135	184	197	248	118	312	333	376	315	440	484	504	479
57	49	121	78	185	116	249	332	313	119	377	221	441	430	505	508
58	74	122	289	186	170	250	389	314	339	378	370	442	488	506	495
59	272	123	194	187	61	251	173	315	218	379	422	443	239	507	503
60	160	124	85	188	281	252	121	316	368	380	425	444	378	508	507
61	288	125	276	189	278	253	199	317	230	381	451	445	459	509	509
62	192	126	58	190	177	254	179	318	391	382	235	446	437	510	510
63	70	127	168	191	293	255	228	319	313	383	412	447	380	511	511

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14. An encoding apparatus, comprising:

an obtaining unit, configured to obtain a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

a selection unit, configured to select K bit indexes from the first sequence based on a reliability; and

an encoding unit, configured to place the to-be-encoded bits based on the selected K bit indexes, and perform polar code encoding on the to-be-encoded bits;

wherein, N = 1024, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequcncc number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	128	518	256	94	384	214	512	364	640	414	768	819	896	966
1	1	129	54	257	204	385	309	513	654	641	223	769	814	897	755
2	2	130	83	258	298	386	188	514	659	642	663	770	439	898	859
3	4	131	57	259	400	387	449	515	335	643	692	771	929	899	940
4	8	132	521	260	608	388	217	516	480	644	835	772	490	900	830
5	16	133	112	261	352	389	408	517	315	645	619	773	623	901	911

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6	32	134	135	262	325	390	609	518	221	646	472	774	671	902	871
7	3	135	78	263	533	391	596	519	370	647	455	775	739	903	639
8	5	136	289	264	155	392	551	520	613	648	796	776	916	904	888
9	64	137	194	265	210	393	650	521	422	649	809	777	463	905	479
10	9	138	85	266	305	394	229	522	425	650	714	778	843	906	946
11	6	139	276	267	547	395	159	523	451	651	721	779	381	907	750
12	17	140	522	268	300	396	420	524	614	652	837	780	497	908	969
13	10	141	58	269	109	397	310	525	543	653	716	781	930	909	508
14	18	142	168	270	184	398	541	526	235	654	864	782	821	910	861
15	128	143	139	271	534	399	773	527	412	655	810	783	726	911	757
16	12	144	99	272	537	400	610	528	343	656	606	784	961	912	970
17	33	145	86	273	115	401	657	529	372	657	912	785	872	913	919
18	65	146	60	274	167	402	333	530	775	658	722	786	492	914	875
19	20	147	280	275	225	403	119	531	317	659	696	787	631	915	862
20	256	148	89	276	326	404	600	532	222	660	377	788	729	916	758
21	34	149	290	277	306	405	339	533	426	661	435	789	700	917	948
22	24	150	529	278	772	406	218	534	453	662	817	790	443	918	977
23	36	151	524	279	157	407	368	535	237	663	319	791	741	919	923
24	7	152	196	280	656	408	652	536	559	664	621	792	845	920	972
25	129	153	141	281	329	409	230	537	833	665	812	793	920	921	761
26	66	154	101	282	110	410	391	538	804	666	484	794	382	922	877
27	512	155	147	283	117	411	313	539	712	667	430	795	822	923	952
28	11	156	176	284	212	412	450	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	542	541	661	669	667	797	730	925	703
30	68	158	530	286	776	414	334	542	808	670	488	798	498	926	935
31	130	159	321	287	330	415	233	543	779	671	239	799	880	927	978
32	19	160	31	288	226	416	555	544	617	672	378	800	742	928	883
33	13	161	200	289	549	417	774	545	604	673	459	801	445	929	762
34	48	162	90	290	538	418	175	546	433	674	622	802	471	930	503
35	14	163	545	291	387	419	123	547	720	675	627	803	635	931	925
36	72	164	292	292	308	420	658	548	816	676	437	804	932	932	878
37	257	165	322	293	216	421	612	549	836	677	380	805	687	933	735
38	21	166	532	294	416	422	341	550	347	678	818	806	903	934	993
39	132	167	263	295	271	423	777	551	897	679	461	807	825	935	885
40	35	168	149	296	279	424	220	552	243	680	496	808	500	936	939
41	258	169	102	297	158	425	314	553	662	681	669	809	846	937	994
42	26	170	105	298	337	426	424	554	454	682	679	810	745	938	980
43	513	171	304	299	550	427	395	555	318	683	724	811	826	939	926

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44	80	172	296	300	672	428	673	556	675	684	841	812	732	940	764
45	37	173	163	301	118	429	583	557	618	685	629	813	446	941	941
46	25	174	92	302	332	430	355	558	898	686	351	814	962	942	967
47	22	175	47	303	579	431	287	559	781	687	467	815	936	943	886
48	136	176	267	304	540	432	183	560	376	688	438	816	475	944	831
49	260	177	385	305	389	433	234	561	428	689	737	817	853	945	947
50	264	178	546	306	173	434	125	562	665	690	251	818	867	946	507
51	38	179	324	307	121	435	557	563	736	691	462	819	637	947	889
52	514	180	208	308	553	436	660	564	567	692	442	820	907	948	984
53	96	181	386	309	199	437	616	565	840	693	441	821	487	949	751
54	67	182	150	310	784	438	342	566	625	694	469	822	695	950	942
55	41	183	153	311	179	439	316	567	238	695	247	823	746	951	996
56	144	184	165	312	228	440	241	568	359	696	683	824	828	952	971
57	28	185	106	313	338	441	778	569	457	697	842	825	753	953	890
58	69	186	55	314	312	442	563	570	399	698	738	826	854	954	509
59	42	187	328	315	704	443	345	571	787	699	899	827	857	955	949
60	516	188	536	316	390	444	452	572	591	700	670	828	504	956	973
61	49	189	577	317	174	445	397	573	678	701	783	829	799	957	1000
62	74	190	548	318	554	446	403	574	434	702	849	830	255	958	892
63	272	191	113	319	581	447	207	575	677	703	820	831	964	959	950
64	160	192	154	320	393	448	674	576	349	704	728	832	909	960	863
65	520	193	79	321	283	449	558	577	245	705	928	833	719	961	759
66	288	194	269	322	122	450	785	578	458	706	791	834	477	962	1008
67	528	195	108	323	448	451	432	579	666	707	367	835	915	963	510
68	192	196	578	324	353	452	357	580	620	708	901	836	638	964	979
69	544	197	224	325	561	453	187	581	363	709	630	837	748	965	953
70	70	198	166	326	203	454	236	582	127	710	685	838	944	966	763
71	44	199	519	327	63	455	664	583	191	711	844	839	869	967	974
72	131	200	552	328	340	456	624	584	782	712	633	840	491	968	954
73	81	201	195	329	394	457	587	585	407	713	711	841	699	969	879
74	50	202	270	330	527	458	780	586	436	714	253	842	754	970	981
75	73	203	641	331	582	459	705	587	626	715	691	843	858	971	982
76	15	204	523	332	556	460	126	588	571	716	824	844	478	972	927
77	320	205	275	333	181	461	242	589	465	717	902	845	968	973	995
78	133	206	580	334	295	462	565	590	681	718	686	846	383	974	765
79	52	207	291	335	285	463	398	591	246	719	740	847	910	975	956
80	23	208	59	336	232	464	346	592	707	720	850	848	815	976	887
81	134	209	169	337	124	465	456	593	350	721	375	849	976	977	985

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82	384	210	560	338	205	466	358	594	599	722	444	850	870	978	997
83	76	211	114	339	182	467	405	595	668	723	470	851	917	979	986
84	137	212	277	340	643	468	303	596	790	724	483	852	727	980	943
85	82	213	156	341	562	469	569	597	460	725	415	853	493	981	891
86	56	214	87	342	286	470	244	598	249	726	485	854	873	982	998
87	27	215	197	343	585	471	595	599	682	727	905	855	701	983	766
88	97	216	116	344	299	472	189	600	573	728	795	856	931	984	511
89	39	217	170	345	354	473	566	601	411	729	473	857	756	985	988
90	259	218	61	346	211	474	676	602	803	730	634	858	860	986	1001
91	84	219	531	347	401	475	361	603	789	731	744	859	499	987	951
92	138	220	525	348	185	476	706	604	709	732	852	860	731	988	1002
93	145	221	642	349	396	477	589	605	365	733	960	861	823	989	893
94	261	222	281	350	344	478	215	606	440	734	865	862	922	990	975
95	29	223	278	351	586	479	786	607	628	735	693	863	874	991	894
96	43	224	526	352	645	480	647	608	689	736	797	864	918	992	1009
97	98	225	177	353	593	481	348	609	374	737	906	865	502	993	955
98	515	226	293	354	535	482	419	610	423	738	715	866	933	994	1004
99	88	227	388	355	240	483	406	611	466	739	807	867	743	995	1010
100	140	228	91	356	206	484	464	612	793	740	474	868	760	996	957
101	30	229	584	357	95	485	680	613	250	741	636	869	881	997	983
102	146	230	769	358	327	486	801	614	371	742	694	870	494	998	958
103	71	231	198	359	564	487	362	615	481	743	254	871	702	999	987
104	262	232	172	360	800	488	590	616	574	744	717	872	921	1000	1012
105	265	233	120	361	402	489	409	617	413	745	575	873	501	1001	999
106	161	234	201	362	356	490	570	618	603	746	913	874	876	1002	1016
107	576	235	336	363	307	491	788	619	366	747	798	875	847	1003	767
108	45	236	62	364	301	492	597	620	468	748	811	876	992	1004	989
109	100	237	282	365	417	493	572	621	655	749	379	877	447	1005	1003
110	640	238	143	366	213	494	219	622	900	750	697	878	733	1006	990
111	51	239	103	367	568	495	311	623	805	751	431	879	827	1007	1005
112	148	240	178	368	832	496	708	624	615	752	607	880	934	1008	959
113	46	241	294	369	588	497	598	625	684	753	489	881	882	1009	1011
114	75	242	93	370	186	498	601	626	710	754	866	882	937	1010	1013
115	266	243	644	371	646	499	651	627	429	755	723	883	963	1011	895
116	273	244	202	372	404	500	421	628	794	756	486	884	747	1012	1006
117	517	245	592	373	227	501	792	629	252	757	908	885	505	1013	1014
118	104	246	323	374	896	502	802	630	373	758	718	886	855	1014	1017
119	162	247	392	375	594	503	611	631	605	759	813	887	924	1015	1018

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120	53	248	297	376	418	504	602	632	848	760	476	888	734	1016	991
121	193	249	770	377	302	505	410	633	690	761	856	889	829	1017	1020
122	152	250	107	378	649	506	231	634	713	762	839	890	965	1018	1007
123	77	251	180	379	771	507	688	635	632	763	725	891	938	1019	1015
124	164	252	151	380	360	508	653	636	482	764	698	892	884	1020	1019
125	768	253	209	381	539	509	248	637	806	765	914	893	506	1021	1021
126	268	254	284	382	111	510	369	638	427	766	752	894	749	1022	1022
127	274	255	648	383	331	511	190	639	904	767	868	895	945	1023	1023

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15. An encoding apparatus, comprising:

an obtaining unit, configured to obtain a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

a selection unit, configured to select K bit indexes from the first sequence based on a reliability; and

an encoding unit, configured to place the to-be-encoded bits based on the selected K bit indexes, and perform polar code encoding on the to-be-encoded bits;

wherein, N = 512, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	64	44	128	139	192	388	256	338	320	450	384	343	448	461
1	1	65	131	129	99	193	91	257	312	321	334	385	372	449	496
2	2	66	81	130	86	194	198	258	390	322	233	386	317	450	351
3	4	67	50	131	60	195	172	259	174	323	175	387	222	451	467
4	8	68	73	132	280	196	120	260	393	324	123	388	426	452	438
5	16	69	15	133	89	197	201	261	283	325	341	389	453	453	251
6	32	70	320	134	290	198	336	262	122	326	220	390	237	454	462
7	3	71	133	135	196	199	62	263	448	327	314	391	433	455	442
8	5	72	52	136	141	200	282	264	353	328	424	392	347	456	441
9	64	73	23	137	101	201	143	265	203	329	395	393	243	457	469

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10	9	74	134	138	147	202	103	266	63	330	355	394	454	458	247
11	6	75	384	139	176	203	178	267	340	331	287	395	318	459	367
12	17	76	76	140	142	204	294	268	394	332	183	396	376	460	253
13	10	77	137	141	321	205	93	269	181	333	234	397	428	461	375
14	18	78	82	142	31	206	202	270	295	334	125	398	238	462	444
15	128	79	56	143	200	207	323	271	285	335	342	399	359	463	470
16	12	80	27	144	90	208	392	272	232	336	316	400	457	464	483
17	33	81	97	145	292	209	297	273	124	337	241	401	399	465	415
18	65	82	39	146	322	210	107	274	205	338	345	402	434	466	485
19	20	83	259	147	263	211	180	275	182	339	452	403	349	467	473
20	256	84	84	148	149	212	151	276	286	340	397	404	245	468	474
21	34	85	138	149	102	213	209	277	299	341	403	405	458	469	254
22	24	86	145	150	105	214	284	278	354	342	207	406	363	470	379
23	36	87	261	151	304	215	94	279	211	343	432	407	127	471	431
24	7	88	29	152	296	216	204	280	401	344	357	408	191	472	489
25	129	89	43	153	163	217	298	281	185	345	187	409	407	473	486
26	66	90	98	154	92	218	400	282	396	346	236	410	436	474	476
27	11	91	88	155	47	219	352	283	344	347	126	411	465	475	439
28	40	92	140	156	267	220	325	284	240	348	242	412	246	476	490
29	68	93	30	157	385	221	155	285	206	349	398	413	350	477	463
30	130	94	146	158	324	222	210	286	95	350	346	414	460	478	381
31	19	95	71	159	208	223	305	287	327	351	456	415	249	479	497
32	13	96	262	160	386	224	300	288	402	352	358	416	411	480	492
33	48	97	265	161	150	225	109	289	356	353	405	417	365	481	443
34	14	98	161	162	153	226	184	290	307	354	303	418	440	482	382
35	72	99	45	163	165	227	115	291	301	355	244	419	374	483	498
36	257	100	100	164	106	228	167	292	417	356	189	420	423	484	445
37	21	101	51	165	55	229	225	293	213	357	361	421	466	485	471
38	132	102	148	166	328	230	326	294	186	358	215	422	250	486	500
39	35	103	46	167	113	231	306	295	404	359	348	423	371	487	446
40	258	104	75	168	154	232	157	296	227	360	419	424	481	488	475
41	26	105	266	169	79	233	329	297	418	361	406	425	413	489	487
42	80	106	273	170	269	234	110	298	302	362	464	426	366	490	504
43	37	107	104	171	108	235	117	299	360	363	362	427	468	491	255
44	25	108	162	172	224	236	212	300	111	364	409	428	429	492	477
45	22	109	53	173	166	237	171	301	331	365	219	429	252	493	491
46	136	110	193	174	195	238	330	302	214	366	311	430	373	494	478
47	260	111	152	175	270	239	226	303	309	367	421	431	482	495	383

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48	264	112	77	176	275	240	387	304	188	368	410	432	427	496	493
49	38	113	164	177	291	241	308	305	449	369	231	433	414	497	499
50	96	114	268	178	59	242	216	306	217	370	248	434	223	498	502
51	67	115	274	179	169	243	416	307	408	371	369	435	472	499	494
52	41	116	54	180	114	244	271	308	229	372	190	436	455	500	501
53	144	117	83	181	277	245	279	309	159	373	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	374	335	438	435	502	505
55	69	119	112	183	87	247	337	311	310	375	480	439	319	503	506
56	42	120	135	184	197	248	118	312	333	376	315	440	484	504	479
57	49	121	78	185	116	249	332	313	119	377	221	441	430	505	508
58	74	122	289	186	170	250	389	314	339	378	370	442	488	506	495
59	272	123	194	187	61	251	173	315	218	379	422	443	239	507	503
60	160	124	85	188	281	252	121	316	368	380	425	444	378	508	507
61	288	125	276	189	278	253	199	317	230	381	451	445	459	509	509
62	192	126	58	190	177	254	179	318	391	382	235	446	437	510	510
63	70	127	168	191	293	255	228	319	313	383	412	447	380	511	511

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16. An encoding apparatus, comprising:

an obtaining unit, configured to obtain a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

a selection unit, configured to select K bit indexes from the first sequence based on a reliability; and

an encoding unit, configured to place the to-be-encoded bits based on the selected K bit indexes, and perform polar code encoding on the to-be-encoded bits;

wherein, N = 256, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	32	48	64	52	96	152	128	47	160	178	192	203	224	207
1	1	33	14	65	23	97	77	129	208	161	93	193	63	225	187

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2	2	34	72	66	134	98	164	130	150	162	202	194	181	226	236
3	4	35	21	67	76	99	54	131	153	163	107	195	232	227	126
4	8	36	132	68	137	100	83	132	165	164	180	196	124	228	242
5	16	37	35	69	82	101	57	133	106	165	151	197	205	229	244
6	32	38	26	70	56	102	112	134	55	166	209	198	182	230	189
7	3	39	80	71	27	103	135	135	113	167	94	199	211	231	215
8	5	40	37	72	97	104	78	136	154	168	204	200	185	232	219
9	64	41	25	73	39	105	194	137	79	169	155	201	240	233	231
10	9	42	22	74	84	106	85	138	108	170	210	202	206	234	248
11	6	43	136	75	138	107	58	139	224	171	109	203	95	235	190
12	17	44	38	76	145	108	168	140	166	172	184	204	213	236	221
13	10	45	96	77	29	109	139	141	195	173	115	205	186	237	235
14	18	46	67	78	43	110	99	142	59	174	167	206	227	238	222
15	128	47	41	79	98	111	86	143	169	175	225	207	111	239	237
16	12	48	144	80	88	112	60	144	114	176	157	208	214	240	243
17	33	49	28	81	140	113	89	145	156	177	110	209	188	241	238
18	65	50	69	82	30	114	196	146	87	178	117	210	217	242	245
19	20	51	42	83	146	115	141	147	197	179	212	211	229	243	127
20	34	52	49	84	71	116	101	148	116	180	171	212	159	244	191
21	24	53	74	85	161	117	147	149	170	181	226	213	119	245	246
22	36	54	160	86	45	118	176	150	61	182	216	214	218	246	249
23	7	55	192	87	100	119	142	151	177	183	158	215	230	247	250
24	129	56	70	88	51	120	31	152	91	184	118	216	233	248	252
25	66	57	44	89	148	121	200	153	198	185	173	217	175	249	223
26	11	58	131	90	46	122	90	154	172	186	121	218	123	250	239
27	40	59	81	91	75	123	149	155	120	187	199	219	220	251	251
28	68	60	50	92	104	124	102	156	201	188	179	220	183	252	247
29	130	61	73	93	162	125	105	157	62	189	228	221	234	253	253
30	19	62	15	94	53	126	163	158	143	190	174	222	125	254	254
31	13	63	133	95	193	127	92	159	103	191	122	223	241	255	255

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17. An encoding apparatus, comprising:

an obtaining unit, configured to obtain a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

a selection unit, configured to select K bit indexes from the first sequence based on a reliability;

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and

an encoding unit, configured to place the to-be-encoded bits based on the selected K bit indexes, and perform polar code encoding on the to-be-encoded bits;

wherein, N=128, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	16	33	32	21	48	70	64	43	80	112	96	55	112	109
1	1	17	65	33	35	49	44	65	98	81	78	97	113	113	115
2	2	18	20	34	26	50	81	66	88	82	85	98	79	114	110
3	4	19	34	35	80	51	50	67	30	83	58	99	108	115	117
4	8	20	24	36	37	52	73	68	71	84	99	100	59	116	118
5	16	21	36	37	25	53	15	69	45	85	86	101	114	117	121
6	32	22	7	38	22	54	52	70	100	86	60	102	87	118	122
7	3	23	66	39	38	55	23	71	51	87	89	103	116	119	63
8	5	24	11	40	96	56	76	72	46	88	101	104	61	120	124
9	64	25	40	41	67	57	82	73	75	89	31	105	91	121	95
10	9	26	68	42	41	58	56	74	104	90	90	106	120	122	111
11	6	27	19	43	28	59	27	75	53	91	102	107	62	123	119
12	17	28	13	44	69	60	97	76	77	92	105	108	103	124	123
13	10	29	48	45	42	61	39	77	54	93	92	109	93	125	125
14	18	30	14	46	49	62	84	78	83	94	47	110	107	126	126
15	12	31	72	47	74	63	29	79	57	95	106	111	94	127	127

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18. An encoding apparatus, comprising:

an obtaining unit, configured to obtain a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

a selection unit, configured to select K bit indexes from the first sequence based on a reliability; and

an encoding unit, configured to place the to-be-encoded bits based on the selected K bit indexes, and perform polar code encoding on the to-be-encoded bits;

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wherein, N=64, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	8	5	16	20	24	13	32	22	40	15	48	30	56	60
1	1	9	9	17	34	25	48	33	38	41	52	49	45	57	31
2	2	10	6	18	24	26	14	34	41	42	23	50	51	58	47
3	4	11	17	19	36	27	21	35	28	43	56	51	46	59	55
4	8	12	10	20	7	28	35	36	42	44	27	52	53	60	59
5	16	13	18	21	11	29	26	37	49	45	39	53	54	61	61
6	32	14	12	22	40	30	37	38	44	46	29	54	57	62	62
7	3	15	33	23	19	31	25	39	50	47	43	55	58	63	63

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19. The apparatus according to claim 12 or 13, wherein the second sequence is prestored.

20. The apparatus according to any one of claims 12 to 19, wherein the K to-be-encoded bits comprise a cyclic redundancy check bit.

21. The apparatus according to any one of claims 12 to 20, wherein the K to-be-encoded bits comprise a parity check bit.

22. The apparatus according to any one of claims 12 to 21, wherein after performing the polar code encoding on the to-be-encoded bits, the encoding apparatus performs, based on a target code length, rate matching on a sequence obtained after the polar code encoding.

23. An encoding apparatus, comprising:

a processor, configured to perform the following steps:

obtaining a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$; wherein, the first sequence is a subset of the second sequence, the second sequence comprises N_{max} bit indexes, the N_{max} bit indexes are arranged in the second sequence based on reliability of the N_{max} bit indexes, $N \geq 64$, N_{max} is a positive integer, $N \leq N_{max}$;

selecting K bit indexes from the first sequence based on a reliability order;

placing the to-be-encoded bits based on the selected sequence numbers of the K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

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wherein, N_{max}=1024, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Rcliability or scquencc number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	128	518	256	94	384	214	512	364	640	414	768	819	896	966
1	1	129	54	257	204	385	309	513	654	641	223	769	814	897	755
2	2	130	83	258	298	386	188	514	659	642	663	770	439	898	859
3	4	131	57	259	400	387	449	515	335	643	692	771	929	899	940
4	8	132	521	260	608	388	217	516	480	644	835	772	490	900	830
5	16	133	112	261	352	389	408	517	315	645	619	773	623	901	911
6	32	134	135	262	325	390	609	518	221	646	472	774	671	902	871
7	3	135	78	263	533	391	596	519	370	647	455	775	739	903	639
8	5	136	289	264	155	392	551	520	613	648	796	776	916	904	888
9	64	137	194	265	210	393	650	521	422	649	809	777	463	905	479
10	9	138	85	266	305	394	229	522	425	650	714	778	843	906	946
11	6	139	276	267	547	395	159	523	451	651	721	779	381	907	750
12	17	140	522	268	300	396	420	524	614	652	837	780	497	908	969
13	10	141	58	269	109	397	310	525	543	653	716	781	930	909	508
14	18	142	168	270	184	398	541	526	235	654	864	782	821	910	861
15	128	143	139	271	534	399	773	527	412	655	810	783	726	911	757
16	12	144	99	272	537	400	610	528	343	656	606	784	961	912	970
17	33	145	86	273	115	401	657	529	372	657	912	785	872	913	919
18	65	146	60	274	167	402	333	530	775	658	722	786	492	914	875
19	20	147	280	275	225	403	119	531	317	659	696	787	631	915	862
20	256	148	89	276	326	404	600	532	222	660	377	788	729	916	758
21	34	149	290	277	306	405	339	533	426	661	435	789	700	917	948
22	24	150	529	278	772	406	218	534	453	662	817	790	443	918	977
23	36	151	524	279	157	407	368	535	237	663	319	791	741	919	923
24	7	152	196	280	656	408	652	536	559	664	621	792	845	920	972
25	129	153	141	281	329	409	230	537	833	665	812	793	920	921	761
26	66	154	101	282	110	410	391	538	804	666	484	794	382	922	877
27	512	155	147	283	117	411	313	539	712	667	430	795	822	923	952
28	11	156	176	284	212	412	450	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	542	541	661	669	667	797	730	925	703

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30	68	158	530	286	776	414	334	542	808	670	488	798	498	926	935
31	130	159	321	287	330	415	233	543	779	671	239	799	880	927	978
32	19	160	31	288	226	416	555	544	617	672	378	800	742	928	883
33	13	161	200	289	549	417	774	545	604	673	459	801	445	929	762
34	48	162	90	290	538	418	175	546	433	674	622	802	471	930	503
35	14	163	545	291	387	419	123	547	720	675	627	803	635	931	925
36	72	164	292	292	308	420	658	548	816	676	437	804	932	932	878
37	257	165	322	293	216	421	612	549	836	677	380	805	687	933	735
38	21	166	532	294	416	422	341	550	347	678	818	806	903	934	993
39	132	167	263	295	271	423	777	551	897	679	461	807	825	935	885
40	35	168	149	296	279	424	220	552	243	680	496	808	500	936	939
41	258	169	102	297	158	425	314	553	662	681	669	809	846	937	994
42	26	170	105	298	337	426	424	554	454	682	679	810	745	938	980
43	513	171	304	299	550	427	395	555	318	683	724	811	826	939	926
44	80	172	296	300	672	428	673	556	675	684	841	812	732	940	764
45	37	173	163	301	118	429	583	557	618	685	629	813	446	941	941
46	25	174	92	302	332	430	355	558	898	686	351	814	962	942	967
47	22	175	47	303	579	431	287	559	781	687	467	815	936	943	886
48	136	176	267	304	540	432	183	560	376	688	438	816	475	944	831
49	260	177	385	305	389	433	234	561	428	689	737	817	853	945	947
50	264	178	546	306	173	434	125	562	665	690	251	818	867	946	507
51	38	179	324	307	121	435	557	563	736	691	462	819	637	947	889
52	514	180	208	308	553	436	660	564	567	692	442	820	907	948	984
53	96	181	386	309	199	437	616	565	840	693	441	821	487	949	751
54	67	182	150	310	784	438	342	566	625	694	469	822	695	950	942
55	41	183	153	311	179	439	316	567	238	695	247	823	746	951	996
56	144	184	165	312	228	440	241	568	359	696	683	824	828	952	971
57	28	185	106	313	338	441	778	569	457	697	842	825	753	953	890
58	69	186	55	314	312	442	563	570	399	698	738	826	854	954	509
59	42	187	328	315	704	443	345	571	787	699	899	827	857	955	949
60	516	188	536	316	390	444	452	572	591	700	670	828	504	956	973
61	49	189	577	317	174	445	397	573	678	701	783	829	799	957	1000
62	74	190	548	318	554	446	403	574	434	702	849	830	255	958	892
63	272	191	113	319	581	447	207	575	677	703	820	831	964	959	950
64	160	192	154	320	393	448	674	576	349	704	728	832	909	960	863
65	520	193	79	321	283	449	558	577	245	705	928	833	719	961	759
66	288	194	269	322	122	450	785	578	458	706	791	834	477	962	1008
67	528	195	108	323	448	451	432	579	666	707	367	835	915	963	510

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68	192	196	578	324	353	452	357	580	620	708	901	836	638	964	979
69	544	197	224	325	561	453	187	581	363	709	630	837	748	965	953
70	70	198	166	326	203	454	236	582	127	710	685	838	944	966	763
71	44	199	519	327	63	455	664	583	191	711	844	839	869	967	974
72	131	200	552	328	340	456	624	584	782	712	633	840	491	968	954
73	81	201	195	329	394	457	587	585	407	713	711	841	699	969	879
74	50	202	270	330	527	458	780	586	436	714	253	842	754	970	981
75	73	203	641	331	582	459	705	587	626	715	691	843	858	971	982
76	15	204	523	332	556	460	126	588	571	716	824	844	478	972	927
77	320	205	275	333	181	461	242	589	465	717	902	845	968	973	995
78	133	206	580	334	295	462	565	590	681	718	686	846	383	974	765
79	52	207	291	335	285	463	398	591	246	719	740	847	910	975	956
80	23	208	59	336	232	464	346	592	707	720	850	848	815	976	887
81	134	209	169	337	124	465	456	593	350	721	375	849	976	977	985
82	384	210	560	338	205	466	358	594	599	722	444	850	870	978	997
83	76	211	114	339	182	467	405	595	668	723	470	851	917	979	986
84	137	212	277	340	643	468	303	596	790	724	483	852	727	980	943
85	82	213	156	341	562	469	569	597	460	725	415	853	493	981	891
86	56	214	87	342	286	470	244	598	249	726	485	854	873	982	998
87	27	215	197	343	585	471	595	599	682	727	905	855	701	983	766
88	97	216	116	344	299	472	189	600	573	728	795	856	931	984	511
89	39	217	170	345	354	473	566	601	411	729	473	857	756	985	988
90	259	218	61	346	211	474	676	602	803	730	634	858	860	986	1001
91	84	219	531	347	401	475	361	603	789	731	744	859	499	987	951
92	138	220	525	348	185	476	706	604	709	732	852	860	731	988	1002
93	145	221	642	349	396	477	589	605	365	733	960	861	823	989	893
94	261	222	281	350	344	478	215	606	440	734	865	862	922	990	975
95	29	223	278	351	586	479	786	607	628	735	693	863	874	991	894
96	43	224	526	352	645	480	647	608	689	736	797	864	918	992	1009
97	98	225	177	353	593	481	348	609	374	737	906	865	502	993	955
98	515	226	293	354	535	482	419	610	423	738	715	866	933	994	1004
99	88	227	388	355	240	483	406	611	466	739	807	867	743	995	1010
100	140	228	91	356	206	484	464	612	793	740	474	868	760	996	957
101	30	229	584	357	95	485	680	613	250	741	636	869	881	997	983
102	146	230	769	358	327	486	801	614	371	742	694	870	494	998	958
103	71	231	198	359	564	487	362	615	481	743	254	871	702	999	987
104	262	232	172	360	800	488	590	616	574	744	717	872	921	1000	1012
105	265	233	120	361	402	489	409	617	413	745	575	873	501	1001	999

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106	161	234	201	362	356	490	570	618	603	746	913	874	876	1002	1016
107	576	235	336	363	307	491	788	619	366	747	798	875	847	1003	767
108	45	236	62	364	301	492	597	620	468	748	811	876	992	1004	989
109	100	237	282	365	417	493	572	621	655	749	379	877	447	1005	1003
110	640	238	143	366	213	494	219	622	900	750	697	878	733	1006	990
111	51	239	103	367	568	495	311	623	805	751	431	879	827	1007	1005
112	148	240	178	368	832	496	708	624	615	752	607	880	934	1008	959
113	46	241	294	369	588	497	598	625	684	753	489	881	882	1009	1011
114	75	242	93	370	186	498	601	626	710	754	866	882	937	1010	1013
115	266	243	644	371	646	499	651	627	429	755	723	883	963	1011	895
116	273	244	202	372	404	500	421	628	794	756	486	884	747	1012	1006
117	517	245	592	373	227	501	792	629	252	757	908	885	505	1013	1014
118	104	246	323	374	896	502	802	630	373	758	718	886	855	1014	1017
119	162	247	392	375	594	503	611	631	605	759	813	887	924	1015	1018
120	53	248	297	376	418	504	602	632	848	760	476	888	734	1016	991
121	193	249	770	377	302	505	410	633	690	761	856	889	829	1017	1020
122	152	250	107	378	649	506	231	634	713	762	839	890	965	1018	1007
123	77	251	180	379	771	507	688	635	632	763	725	891	938	1019	1015
124	164	252	151	380	360	508	653	636	482	764	698	892	884	1020	1019
125	768	253	209	381	539	509	248	637	806	765	914	893	506	1021	1021
126	268	254	284	382	111	510	369	638	427	766	752	894	749	1022	1022
127	274	255	648	383	331	511	190	639	904	767	868	895	945	1023	1023

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24. An encoding apparatus, comprising:

a processor, configured to perform the following steps:

obtaining a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$; wherein, the first sequence is a subset of the second sequence, the second sequence comprises N_{max} bit indexes, the N_{max} bit indexes are arranged in the second sequence based on reliability of the N_{max} bit indexes, $N \geq 64$, N_{max} is a positive integer, $N \leq N_{max}$;

selecting K bit indexes from the first sequence based on a reliability order;

placing the to-be-encoded bits based on the selected sequence numbers of the K bit indexes; and performing polar code encoding on the to-be-encoded bits;

wherein, $N_{max}=512$, the second sequence is the sequence shown in the following table:

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Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	64	44	128	139	192	388	256	338	320	450	384	343	448	461
1	1	65	131	129	99	193	91	257	312	321	334	385	372	449	496
2	2	66	81	130	86	194	198	258	390	322	233	386	317	450	351
3	4	67	50	131	60	195	172	259	174	323	175	387	222	451	467
4	8	68	73	132	280	196	120	260	393	324	123	388	426	452	438
5	16	69	15	133	89	197	201	261	283	325	341	389	453	453	251
6	32	70	320	134	290	198	336	262	122	326	220	390	237	454	462
7	3	71	133	135	196	199	62	263	448	327	314	391	433	455	442
8	5	72	52	136	141	200	282	264	353	328	424	392	347	456	441
9	64	73	23	137	101	201	143	265	203	329	395	393	243	457	469
10	9	74	134	138	147	202	103	266	63	330	355	394	454	458	247
11	6	75	384	139	176	203	178	267	340	331	287	395	318	459	367
12	17	76	76	140	142	204	294	268	394	332	183	396	376	460	253
13	10	77	137	141	321	205	93	269	181	333	234	397	428	461	375
14	18	78	82	142	31	206	202	270	295	334	125	398	238	462	444
15	128	79	56	143	200	207	323	271	285	335	342	399	359	463	470
16	12	80	27	144	90	208	392	272	232	336	316	400	457	464	483
17	33	81	97	145	292	209	297	273	124	337	241	401	399	465	415
18	65	82	39	146	322	210	107	274	205	338	345	402	434	466	485
19	20	83	259	147	263	211	180	275	182	339	452	403	349	467	473
20	256	84	84	148	149	212	151	276	286	340	397	404	245	468	474
21	34	85	138	149	102	213	209	277	299	341	403	405	458	469	254
22	24	86	145	150	105	214	284	278	354	342	207	406	363	470	379
23	36	87	261	151	304	215	94	279	211	343	432	407	127	471	431
24	7	88	29	152	296	216	204	280	401	344	357	408	191	472	489
25	129	89	43	153	163	217	298	281	185	345	187	409	407	473	486
26	66	90	98	154	92	218	400	282	396	346	236	410	436	474	476
27	11	91	88	155	47	219	352	283	344	347	126	411	465	475	439
28	40	92	140	156	267	220	325	284	240	348	242	412	246	476	490
29	68	93	30	157	385	221	155	285	206	349	398	413	350	477	463
30	130	94	146	158	324	222	210	286	95	350	346	414	460	478	381
31	19	95	71	159	208	223	305	287	327	351	456	415	249	479	497

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32	13	96	262	160	386	224	300	288	402	352	358	416	411	480	492
33	48	97	265	161	150	225	109	289	356	353	405	417	365	481	443
34	14	98	161	162	153	226	184	290	307	354	303	418	440	482	382
35	72	99	45	163	165	227	115	291	301	355	244	419	374	483	498
36	257	100	100	164	106	228	167	292	417	356	189	420	423	484	445
37	21	101	51	165	55	229	225	293	213	357	361	421	466	485	471
38	132	102	148	166	328	230	326	294	186	358	215	422	250	486	500
39	35	103	46	167	113	231	306	295	404	359	348	423	371	487	446
40	258	104	75	168	154	232	157	296	227	360	419	424	481	488	475
41	26	105	266	169	79	233	329	297	418	361	406	425	413	489	487
42	80	106	273	170	269	234	110	298	302	362	464	426	366	490	504
43	37	107	104	171	108	235	117	299	360	363	362	427	468	491	255
44	25	108	162	172	224	236	212	300	111	364	409	428	429	492	477
45	22	109	53	173	166	237	171	301	331	365	219	429	252	493	491
46	136	110	193	174	195	238	330	302	214	366	311	430	373	494	478
47	260	111	152	175	270	239	226	303	309	367	421	431	482	495	383
48	264	112	77	176	275	240	387	304	188	368	410	432	427	496	493
49	38	113	164	177	291	241	308	305	449	369	231	433	414	497	499
50	96	114	268	178	59	242	216	306	217	370	248	434	223	498	502
51	67	115	274	179	169	243	416	307	408	371	369	435	472	499	494
52	41	116	54	180	114	244	271	308	229	372	190	436	455	500	501
53	144	117	83	181	277	245	279	309	159	373	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	374	335	438	435	502	505
55	69	119	112	183	87	247	337	311	310	375	480	439	319	503	506
56	42	120	135	184	197	248	118	312	333	376	315	440	484	504	479
57	49	121	78	185	116	249	332	313	119	377	221	441	430	505	508
58	74	122	289	186	170	250	389	314	339	378	370	442	488	506	495
59	272	123	194	187	61	251	173	315	218	379	422	443	239	507	503
60	160	124	85	188	281	252	121	316	368	380	425	444	378	508	507
61	288	125	276	189	278	253	199	317	230	381	451	445	459	509	509
62	192	126	58	190	177	254	179	318	391	382	235	446	437	510	510
63	70	127	168	191	293	255	228	319	313	383	412	447	380	511	511

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25. An encoding apparatus, comprising:

a processor, configured to perform the following steps:

obtaining a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein

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the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability order;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein, N=1024, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	128	518	256	94	384	214	512	364	640	414	768	819	896	966
1	1	129	54	257	204	385	309	513	654	641	223	769	814	897	755
2	2	130	83	258	298	386	188	514	659	642	663	770	439	898	859
3	4	131	57	259	400	387	449	515	335	643	692	771	929	899	940
4	8	132	521	260	608	388	217	516	480	644	835	772	490	900	830
5	16	133	112	261	352	389	408	517	315	645	619	773	623	901	911
6	32	134	135	262	325	390	609	518	221	646	472	774	671	902	871
7	3	135	78	263	533	391	596	519	370	647	455	775	739	903	639
8	5	136	289	264	155	392	551	520	613	648	796	776	916	904	888
9	64	137	194	265	210	393	650	521	422	649	809	777	463	905	479
10	9	138	85	266	305	394	229	522	425	650	714	778	843	906	946
11	6	139	276	267	547	395	159	523	451	651	721	779	381	907	750
12	17	140	522	268	300	396	420	524	614	652	837	780	497	908	969
13	10	141	58	269	109	397	310	525	543	653	716	781	930	909	508
14	18	142	168	270	184	398	541	526	235	654	864	782	821	910	861
15	128	143	139	271	534	399	773	527	412	655	810	783	726	911	757
16	12	144	99	272	537	400	610	528	343	656	606	784	961	912	970
17	33	145	86	273	115	401	657	529	372	657	912	785	872	913	919
18	65	146	60	274	167	402	333	530	775	658	722	786	492	914	875
19	20	147	280	275	225	403	119	531	317	659	696	787	631	915	862
20	256	148	89	276	326	404	600	532	222	660	377	788	729	916	758
21	34	149	290	277	306	405	339	533	426	661	435	789	700	917	948
22	24	150	529	278	772	406	218	534	453	662	817	790	443	918	977
23	36	151	524	279	157	407	368	535	237	663	319	791	741	919	923

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24	7	152	196	280	656	408	652	536	559	664	621	792	845	920	972
25	129	153	141	281	329	409	230	537	833	665	812	793	920	921	761
26	66	154	101	282	110	410	391	538	804	666	484	794	382	922	877
27	512	155	147	283	117	411	313	539	712	667	430	795	822	923	952
28	11	156	176	284	212	412	450	540	834	668	838	796	851	924	495
29	40	157	142	285	171	413	542	541	661	669	667	797	730	925	703
30	68	158	530	286	776	414	334	542	808	670	488	798	498	926	935
31	130	159	321	287	330	415	233	543	779	671	239	799	880	927	978
32	19	160	31	288	226	416	555	544	617	672	378	800	742	928	883
33	13	161	200	289	549	417	774	545	604	673	459	801	445	929	762
34	48	162	90	290	538	418	175	546	433	674	622	802	471	930	503
35	14	163	545	291	387	419	123	547	720	675	627	803	635	931	925
36	72	164	292	292	308	420	658	548	816	676	437	804	932	932	878
37	257	165	322	293	216	421	612	549	836	677	380	805	687	933	735
38	21	166	532	294	416	422	341	550	347	678	818	806	903	934	993
39	132	167	263	295	271	423	777	551	897	679	461	807	825	935	885
40	35	168	149	296	279	424	220	552	243	680	496	808	500	936	939
41	258	169	102	297	158	425	314	553	662	681	669	809	846	937	994
42	26	170	105	298	337	426	424	554	454	682	679	810	745	938	980
43	513	171	304	299	550	427	395	555	318	683	724	811	826	939	926
44	80	172	296	300	672	428	673	556	675	684	841	812	732	940	764
45	37	173	163	301	118	429	583	557	618	685	629	813	446	941	941
46	25	174	92	302	332	430	355	558	898	686	351	814	962	942	967
47	22	175	47	303	579	431	287	559	781	687	467	815	936	943	886
48	136	176	267	304	540	432	183	560	376	688	438	816	475	944	831
49	260	177	385	305	389	433	234	561	428	689	737	817	853	945	947
50	264	178	546	306	173	434	125	562	665	690	251	818	867	946	507
51	38	179	324	307	121	435	557	563	736	691	462	819	637	947	889
52	514	180	208	308	553	436	660	564	567	692	442	820	907	948	984
53	96	181	386	309	199	437	616	565	840	693	441	821	487	949	751
54	67	182	150	310	784	438	342	566	625	694	469	822	695	950	942
55	41	183	153	311	179	439	316	567	238	695	247	823	746	951	996
56	144	184	165	312	228	440	241	568	359	696	683	824	828	952	971
57	28	185	106	313	338	441	778	569	457	697	842	825	753	953	890
58	69	186	55	314	312	442	563	570	399	698	738	826	854	954	509
59	42	187	328	315	704	443	345	571	787	699	899	827	857	955	949
60	516	188	536	316	390	444	452	572	591	700	670	828	504	956	973
61	49	189	577	317	174	445	397	573	678	701	783	829	799	957	1000

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62	74	190	548	318	554	446	403	574	434	702	849	830	255	958	892
63	272	191	113	319	581	447	207	575	677	703	820	831	964	959	950
64	160	192	154	320	393	448	674	576	349	704	728	832	909	960	863
65	520	193	79	321	283	449	558	577	245	705	928	833	719	961	759
66	288	194	269	322	122	450	785	578	458	706	791	834	477	962	1008
67	528	195	108	323	448	451	432	579	666	707	367	835	915	963	510
68	192	196	578	324	353	452	357	580	620	708	901	836	638	964	979
69	544	197	224	325	561	453	187	581	363	709	630	837	748	965	953
70	70	198	166	326	203	454	236	582	127	710	685	838	944	966	763
71	44	199	519	327	63	455	664	583	191	711	844	839	869	967	974
72	131	200	552	328	340	456	624	584	782	712	633	840	491	968	954
73	81	201	195	329	394	457	587	585	407	713	711	841	699	969	879
74	50	202	270	330	527	458	780	586	436	714	253	842	754	970	981
75	73	203	641	331	582	459	705	587	626	715	691	843	858	971	982
76	15	204	523	332	556	460	126	588	571	716	824	844	478	972	927
77	320	205	275	333	181	461	242	589	465	717	902	845	968	973	995
78	133	206	580	334	295	462	565	590	681	718	686	846	383	974	765
79	52	207	291	335	285	463	398	591	246	719	740	847	910	975	956
80	23	208	59	336	232	464	346	592	707	720	850	848	815	976	887
81	134	209	169	337	124	465	456	593	350	721	375	849	976	977	985
82	384	210	560	338	205	466	358	594	599	722	444	850	870	978	997
83	76	211	114	339	182	467	405	595	668	723	470	851	917	979	986
84	137	212	277	340	643	468	303	596	790	724	483	852	727	980	943
85	82	213	156	341	562	469	569	597	460	725	415	853	493	981	891
86	56	214	87	342	286	470	244	598	249	726	485	854	873	982	998
87	27	215	197	343	585	471	595	599	682	727	905	855	701	983	766
88	97	216	116	344	299	472	189	600	573	728	795	856	931	984	511
89	39	217	170	345	354	473	566	601	411	729	473	857	756	985	988
90	259	218	61	346	211	474	676	602	803	730	634	858	860	986	1001
91	84	219	531	347	401	475	361	603	789	731	744	859	499	987	951
92	138	220	525	348	185	476	706	604	709	732	852	860	731	988	1002
93	145	221	642	349	396	477	589	605	365	733	960	861	823	989	893
94	261	222	281	350	344	478	215	606	440	734	865	862	922	990	975
95	29	223	278	351	586	479	786	607	628	735	693	863	874	991	894
96	43	224	526	352	645	480	647	608	689	736	797	864	918	992	1009
97	98	225	177	353	593	481	348	609	374	737	906	865	502	993	955
98	515	226	293	354	535	482	419	610	423	738	715	866	933	994	1004
99	88	227	388	355	240	483	406	611	466	739	807	867	743	995	1010

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100	140	228	91	356	206	484	464	612	793	740	474	868	760	996	957
101	30	229	584	357	95	485	680	613	250	741	636	869	881	997	983
102	146	230	769	358	327	486	801	614	371	742	694	870	494	998	958
103	71	231	198	359	564	487	362	615	481	743	254	871	702	999	987
104	262	232	172	360	800	488	590	616	574	744	717	872	921	1000	1012
105	265	233	120	361	402	489	409	617	413	745	575	873	501	1001	999
106	161	234	201	362	356	490	570	618	603	746	913	874	876	1002	1016
107	576	235	336	363	307	491	788	619	366	747	798	875	847	1003	767
108	45	236	62	364	301	492	597	620	468	748	811	876	992	1004	989
109	100	237	282	365	417	493	572	621	655	749	379	877	447	1005	1003
110	640	238	143	366	213	494	219	622	900	750	697	878	733	1006	990
111	51	239	103	367	568	495	311	623	805	751	431	879	827	1007	1005
112	148	240	178	368	832	496	708	624	615	752	607	880	934	1008	959
113	46	241	294	369	588	497	598	625	684	753	489	881	882	1009	1011
114	75	242	93	370	186	498	601	626	710	754	866	882	937	1010	1013
115	266	243	644	371	646	499	651	627	429	755	723	883	963	1011	895
116	273	244	202	372	404	500	421	628	794	756	486	884	747	1012	1006
117	517	245	592	373	227	501	792	629	252	757	908	885	505	1013	1014
118	104	246	323	374	896	502	802	630	373	758	718	886	855	1014	1017
119	162	247	392	375	594	503	611	631	605	759	813	887	924	1015	1018
120	53	248	297	376	418	504	602	632	848	760	476	888	734	1016	991
121	193	249	770	377	302	505	410	633	690	761	856	889	829	1017	1020
122	152	250	107	378	649	506	231	634	713	762	839	890	965	1018	1007
123	77	251	180	379	771	507	688	635	632	763	725	891	938	1019	1015
124	164	252	151	380	360	508	653	636	482	764	698	892	884	1020	1019
125	768	253	209	381	539	509	248	637	806	765	914	893	506	1021	1021
126	268	254	284	382	111	510	369	638	427	766	752	894	749	1022	1022
127	274	255	648	383	331	511	190	639	904	767	868	895	945	1023	1023

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26. An encoding apparatus, comprising:

a processor, configured to perform the following steps:

obtaining a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability order;

placing the to-be-encoded bits based on the selected K bit indexes; and

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performing polar code encoding on the to-be-encoded bits;

wherein, N=512, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	64	44	128	139	192	388	256	338	320	450	384	343	448	461
1	1	65	131	129	99	193	91	257	312	321	334	385	372	449	496
2	2	66	81	130	86	194	198	258	390	322	233	386	317	450	351
3	4	67	50	131	60	195	172	259	174	323	175	387	222	451	467
4	8	68	73	132	280	196	120	260	393	324	123	388	426	452	438
5	16	69	15	133	89	197	201	261	283	325	341	389	453	453	251
6	32	70	320	134	290	198	336	262	122	326	220	390	237	454	462
7	3	71	133	135	196	199	62	263	448	327	314	391	433	455	442
8	5	72	52	136	141	200	282	264	353	328	424	392	347	456	441
9	64	73	23	137	101	201	143	265	203	329	395	393	243	457	469
10	9	74	134	138	147	202	103	266	63	330	355	394	454	458	247
11	6	75	384	139	176	203	178	267	340	331	287	395	318	459	367
12	17	76	76	140	142	204	294	268	394	332	183	396	376	460	253
13	10	77	137	141	321	205	93	269	181	333	234	397	428	461	375
14	18	78	82	142	31	206	202	270	295	334	125	398	238	462	444
15	128	79	56	143	200	207	323	271	285	335	342	399	359	463	470
16	12	80	27	144	90	208	392	272	232	336	316	400	457	464	483
17	33	81	97	145	292	209	297	273	124	337	241	401	399	465	415
18	65	82	39	146	322	210	107	274	205	338	345	402	434	466	485
19	20	83	259	147	263	211	180	275	182	339	452	403	349	467	473
20	256	84	84	148	149	212	151	276	286	340	397	404	245	468	474
21	34	85	138	149	102	213	209	277	299	341	403	405	458	469	254
22	24	86	145	150	105	214	284	278	354	342	207	406	363	470	379
23	36	87	261	151	304	215	94	279	211	343	432	407	127	471	431
24	7	88	29	152	296	216	204	280	401	344	357	408	191	472	489
25	129	89	43	153	163	217	298	281	185	345	187	409	407	473	486
26	66	90	98	154	92	218	400	282	396	346	236	410	436	474	476
27	11	91	88	155	47	219	352	283	344	347	126	411	465	475	439
28	40	92	140	156	267	220	325	284	240	348	242	412	246	476	490

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29	68	93	30	157	385	221	155	285	206	349	398	413	350	477	463
30	130	94	146	158	324	222	210	286	95	350	346	414	460	478	381
31	19	95	71	159	208	223	305	287	327	351	456	415	249	479	497
32	13	96	262	160	386	224	300	288	402	352	358	416	411	480	492
33	48	97	265	161	150	225	109	289	356	353	405	417	365	481	443
34	14	98	161	162	153	226	184	290	307	354	303	418	440	482	382
35	72	99	45	163	165	227	115	291	301	355	244	419	374	483	498
36	257	100	100	164	106	228	167	292	417	356	189	420	423	484	445
37	21	101	51	165	55	229	225	293	213	357	361	421	466	485	471
38	132	102	148	166	328	230	326	294	186	358	215	422	250	486	500
39	35	103	46	167	113	231	306	295	404	359	348	423	371	487	446
40	258	104	75	168	154	232	157	296	227	360	419	424	481	488	475
41	26	105	266	169	79	233	329	297	418	361	406	425	413	489	487
42	80	106	273	170	269	234	110	298	302	362	464	426	366	490	504
43	37	107	104	171	108	235	117	299	360	363	362	427	468	491	255
44	25	108	162	172	224	236	212	300	111	364	409	428	429	492	477
45	22	109	53	173	166	237	171	301	331	365	219	429	252	493	491
46	136	110	193	174	195	238	330	302	214	366	311	430	373	494	478
47	260	111	152	175	270	239	226	303	309	367	421	431	482	495	383
48	264	112	77	176	275	240	387	304	188	368	410	432	427	496	493
49	38	113	164	177	291	241	308	305	449	369	231	433	414	497	499
50	96	114	268	178	59	242	216	306	217	370	248	434	223	498	502
51	67	115	274	179	169	243	416	307	408	371	369	435	472	499	494
52	41	116	54	180	114	244	271	308	229	372	190	436	455	500	501
53	144	117	83	181	277	245	279	309	159	373	364	437	377	501	447
54	28	118	57	182	156	246	158	310	420	374	335	438	435	502	505
55	69	119	112	183	87	247	337	311	310	375	480	439	319	503	506
56	42	120	135	184	197	248	118	312	333	376	315	440	484	504	479
57	49	121	78	185	116	249	332	313	119	377	221	441	430	505	508
58	74	122	289	186	170	250	389	314	339	378	370	442	488	506	495
59	272	123	194	187	61	251	173	315	218	379	422	443	239	507	503
60	160	124	85	188	281	252	121	316	368	380	425	444	378	508	507
61	288	125	276	189	278	253	199	317	230	381	451	445	459	509	509
62	192	126	58	190	177	254	179	318	391	382	235	446	437	510	510
63	70	127	168	191	293	255	228	319	313	383	412	447	380	511	511

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27. An encoding apparatus, comprising:

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a processor, configured to perform the following steps:

obtaining a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability order;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein, N = 256, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	32	48	64	52	96	152	128	47	160	178	192	203	224	207
1	1	33	14	65	23	97	77	129	208	161	93	193	63	225	187
2	2	34	72	66	134	98	164	130	150	162	202	194	181	226	236
3	4	35	21	67	76	99	54	131	153	163	107	195	232	227	126
4	8	36	132	68	137	100	83	132	165	164	180	196	124	228	242
5	16	37	35	69	82	101	57	133	106	165	151	197	205	229	244
6	32	38	26	70	56	102	112	134	55	166	209	198	182	230	189
7	3	39	80	71	27	103	135	135	113	167	94	199	211	231	215
8	5	40	37	72	97	104	78	136	154	168	204	200	185	232	219
9	64	41	25	73	39	105	194	137	79	169	155	201	240	233	231
10	9	42	22	74	84	106	85	138	108	170	210	202	206	234	248
11	6	43	136	75	138	107	58	139	224	171	109	203	95	235	190
12	17	44	38	76	145	108	168	140	166	172	184	204	213	236	221
13	10	45	96	77	29	109	139	141	195	173	115	205	186	237	235
14	18	46	67	78	43	110	99	142	59	174	167	206	227	238	222
15	128	47	41	79	98	111	86	143	169	175	225	207	111	239	237
16	12	48	144	80	88	112	60	144	114	176	157	208	214	240	243
17	33	49	28	81	140	113	89	145	156	177	110	209	188	241	238
18	65	50	69	82	30	114	196	146	87	178	117	210	217	242	245
19	20	51	42	83	146	115	141	147	197	179	212	211	229	243	127
20	34	52	49	84	71	116	101	148	116	180	171	212	159	244	191
21	24	53	74	85	161	117	147	149	170	181	226	213	119	245	246

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22	36	54	160	86	45	118	176	150	61	182	216	214	218	246	249
23	7	55	192	87	100	119	142	151	177	183	158	215	230	247	250
24	129	56	70	88	51	120	31	152	91	184	118	216	233	248	252
25	66	57	44	89	148	121	200	153	198	185	173	217	175	249	223
26	11	58	131	90	46	122	90	154	172	186	121	218	123	250	239
27	40	59	81	91	75	123	149	155	120	187	199	219	220	251	251
28	68	60	50	92	104	124	102	156	201	188	179	220	183	252	247
29	130	61	73	93	162	125	105	157	62	189	228	221	234	253	253
30	19	62	15	94	53	126	163	158	143	190	174	222	125	254	254
31	13	63	133	95	193	127	92	159	103	191	122	223	241	255	255

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28. An encoding apparatus, comprising:

a processor, configured to perform the following steps:

obtaining a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability order;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein, N = 128, the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	16	33	32	21	48	70	64	43	80	112	96	55	112	109
1	1	17	65	33	35	49	44	65	98	81	78	97	113	113	115
2	2	18	20	34	26	50	81	66	88	82	85	98	79	114	110
3	4	19	34	35	80	51	50	67	30	83	58	99	108	115	117
4	8	20	24	36	37	52	73	68	71	84	99	100	59	116	118
5	16	21	36	37	25	53	15	69	45	85	86	101	114	117	121
6	32	22	7	38	22	54	52	70	100	86	60	102	87	118	122
7	3	23	66	39	38	55	23	71	51	87	89	103	116	119	63
8	5	24	11	40	96	56	76	72	46	88	101	104	61	120	124
9	64	25	40	41	67	57	82	73	75	89	31	105	91	121	95

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10	9	26	68	42	41	58	56	74	104	90	90	106	120	122	111
11	6	27	19	43	28	59	27	75	53	91	102	107	62	123	119
12	17	28	13	44	69	60	97	76	77	92	105	108	103	124	123
13	10	29	48	45	42	61	39	77	54	93	92	109	93	125	125
14	18	30	14	46	49	62	84	78	83	94	47	110	107	126	126
15	12	31	72	47	74	63	29	79	57	95	106	111	94	127	127

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29. An encoding apparatus, comprising:

a processor, configured to perform the following steps:

obtaining a first sequence used to encode K to-be-encoded bits, K is a positive integer; wherein the first sequence comprises N bit indexes, the N bit indexes are arranged in the first sequence based on reliability of the N bit indexes, $N = 2^n$, n is a positive integer, and $K \leq N$;

selecting K bit indexes from the first sequence based on a reliability order;

placing the to-be-encoded bits based on the selected K bit indexes; and

performing polar code encoding on the to-be-encoded bits;

wherein, N = 64 the second sequence is the sequence shown in the following table:

Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index	Reliability or sequence number of reliability	bit index
0	0	8	5	16	20	24	13	32	22	40	15	48	30	56	60
1	1	9	9	17	34	25	48	33	38	41	52	49	45	57	31
2	2	10	6	18	24	26	14	34	41	42	23	50	51	58	47
3	4	11	17	19	36	27	21	35	28	43	56	51	46	59	55
4	8	12	10	20	7	28	35	36	42	44	27	52	53	60	59
5	16	13	18	21	11	29	26	37	49	45	39	53	54	61	61
6	32	14	12	22	40	30	37	38	44	46	29	54	57	62	62
7	3	15	33	23	19	31	25	39	50	47	43	55	58	63	63

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30. The apparatus according to any one of claims 25 to 29, wherein the apparatus further comprises:

a memory, configured to store a program, wherein the steps are implemented when the program is executed by the processor.

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31. The apparatus according to claim 25 or 26, wherein the second sequence is prestored.

32. The apparatus according to any one of claims 25 to 31, wherein the K to-be-encoded bits comprise a cyclic redundancy check bit.

33. The apparatus according to any one of claims 25 to 32, wherein the K to-be-encoded bits comprise a parity check bit.

34. The apparatus according to any one of claims 25 to 33, wherein after performing the polar code encoding on the to-be-encoded bits, the processor is further configured to perform, based on a target code length, rate matching on a sequence obtained after the polar code encoding.

35. An encoding apparatus, comprising:

an input interface circuit, configured to obtain to-be-encoded bits;

a logic circuit, configured to perform the method according to any one of claims 1 to 11 based on the obtained to-be-encoded bits, to obtain a bit sequence; and

an output interface circuit, configured to output the bit sequence.

36. A wireless device, comprising the encoding apparatus according to any one of claims 12 to 22, a modulator, and a transceiver, wherein

the modulator is configured to modulate the bit sequence obtained after polar polar encoding, to obtain a modulated sequence; and

the transceiver is configured to send the modulated sequence.

37. The device according to claim 36, wherein the wireless device is a terminal or a network device.

38. A computer storage medium storing instructions thereon, that when executed by a computer processor, the method according to any one of claims 1 to 11 is performed.

39. A computer program product comprising a computer readable memory storing computer executable instructions thereon, that when executed by a computer processor, the method according to any one of claims 1 to 11 is performed.

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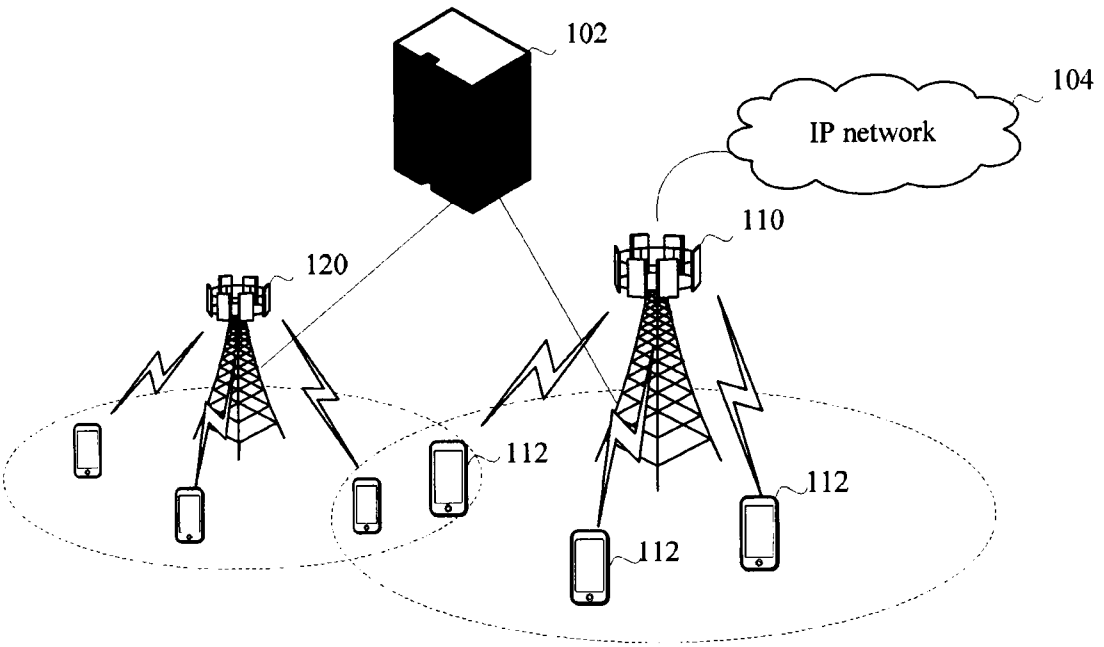

FIG. 1

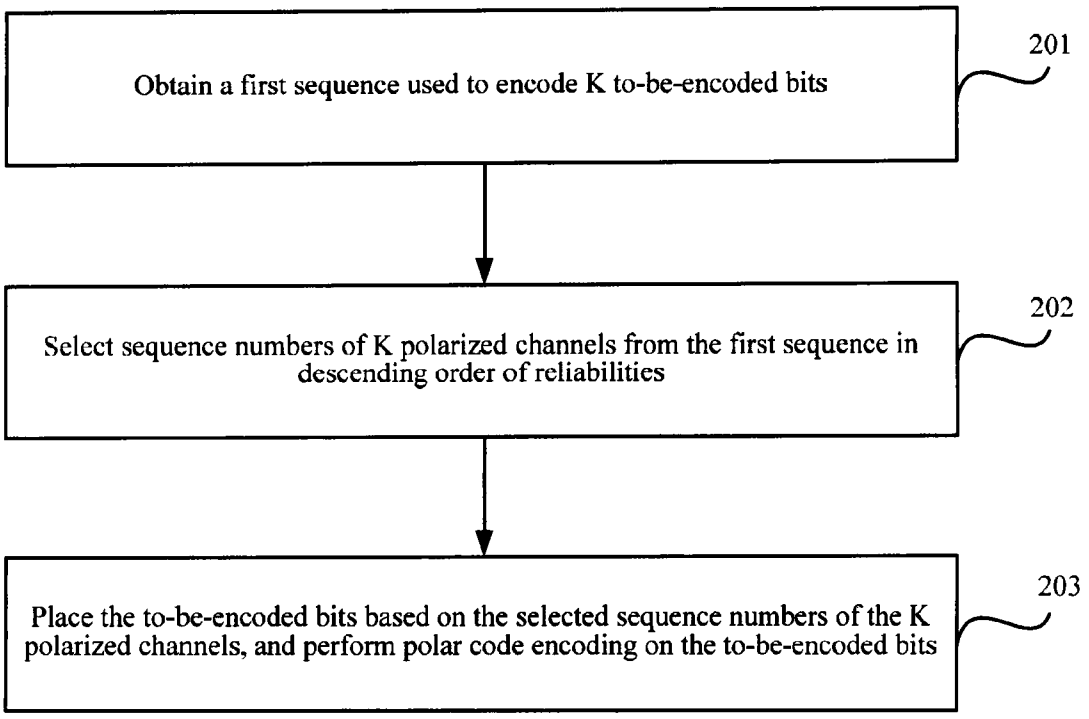

FIG. 2

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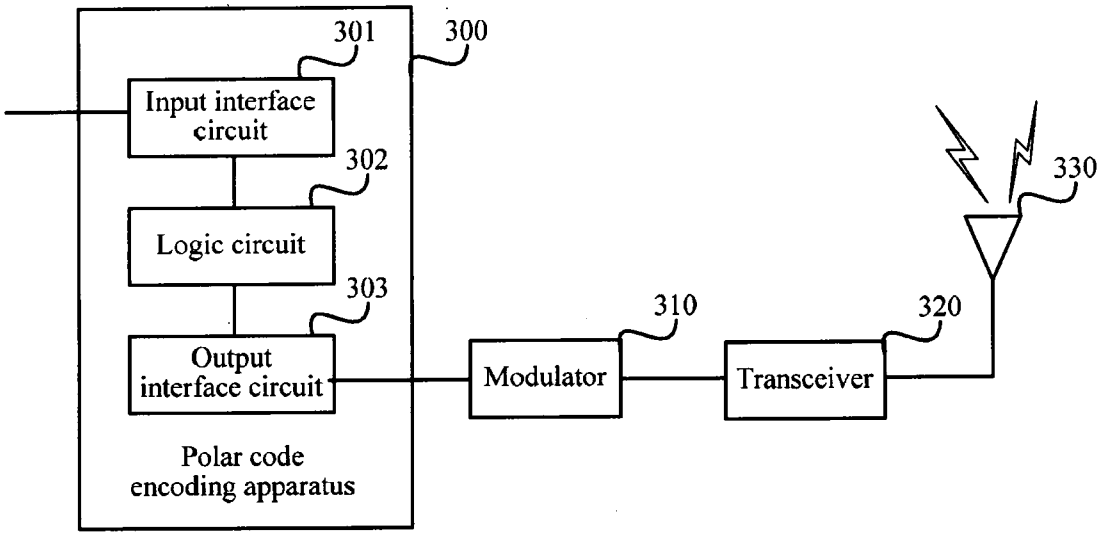

FIG. 3

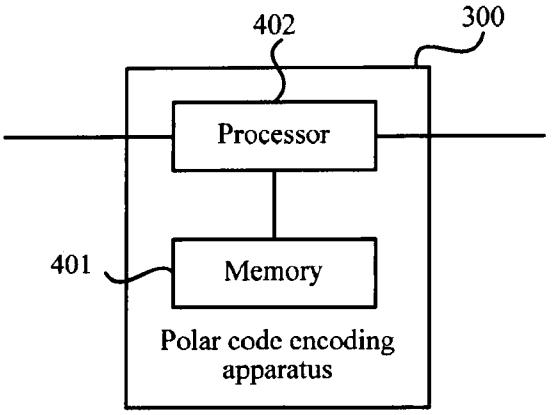

FIG. 4

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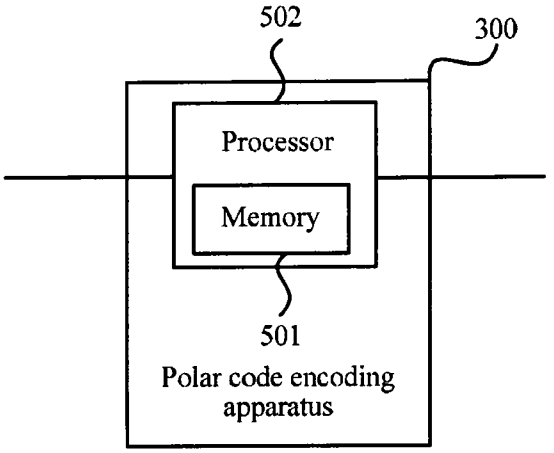

FIG. 5

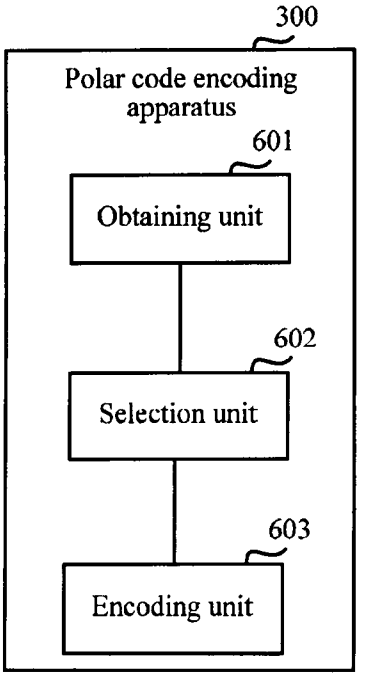

FIG. 6

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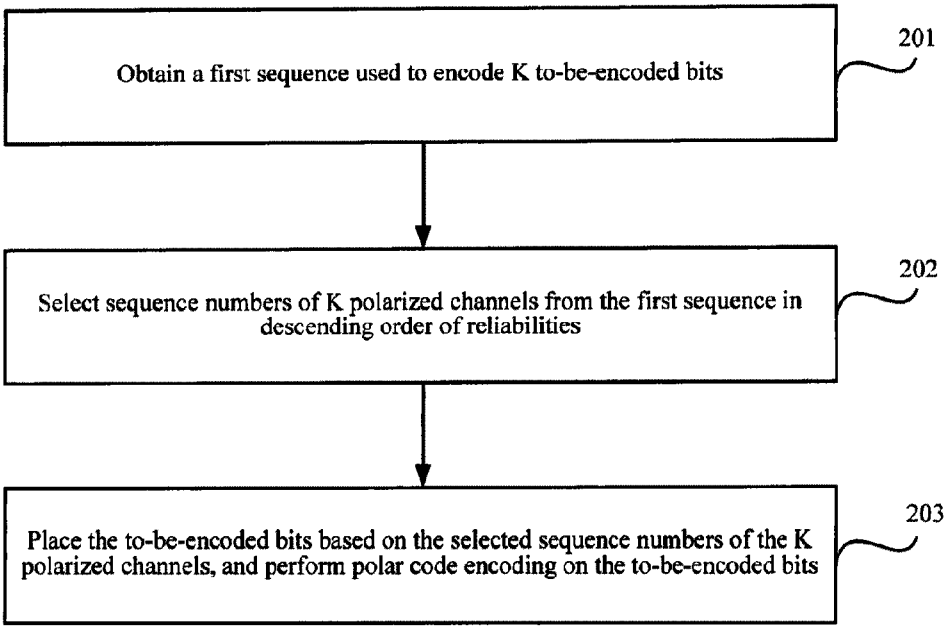
Obtain a first sequence used to encode K to-be-encoded bits
201
Select sequence numbers of K polarized channels from the first sequence in descending order of reliabilities
202
Place the to-be-encoded bits based on the selected sequence numbers of the K polarized channels, and perform polar code encoding on the to-be-encoded bits
203