一种 Polar 码编解码方法及装置

技术领域

本申请实施例涉及通信技术领域，尤其涉及一种 Polar 码编码方法及装置。

背景技术

信道编码作为最基本的无线接入技术，在保证数据的可靠性传输方面起到至关重要的作用。在现有的无线通信系统中，一般采用 Turbo 码、低密度奇偶校验码（low density parity check，LDPC）和极化（Polar）码进行信道编码。Turbo 码不能够支持过低或过高码率的信息传输。而对于中短包传输，Turbo 码和 LDPC 码也由于自身编译码的特点，在有限码长下很难达到理想的性能。在实现方面，Turbo 码和 LDPC 码在编译码实现过程中具有较高的计算复杂度。Polar 码是理论上证明可以取得香农容量，且具有相对简单的编译码复杂度的好码，因而得到了越来越广泛的应用。

在第五代（5th generation，5G）通信系统中，将 Polar 码确定为控制信道的编码方式。由于控制信道包括的数据量一般不大，因此编码块都不大，在 3GPP 标准中，仅规定了母码长度为 N_{max}=1024 的可靠度排序序列，用于对 1024 个子信道的可靠度进行排序从而用于选择信息比特的位置，对于母码长度 N 小于 1024 的其他情形，可以采用 N_{max}=1024 的可靠度排序序列的子序列作为相应的可靠度排序序列。采用这种序列嵌套的特点可以简化系统设计。

但在数据信道编码中，很多情况下需采用长码块进行编码，这时候仍然采用 N_{max}=1024 的可靠度排序序列就显得不够用了。因此如何设计更长的可靠度排序序列以便适应数据信道的要求就成为一个需要解决的问题。

发明内容

本申请实施例提供一种应用于无线通信的 Polar 码编码的编码方法及装置，可以支持大数据块的 Polar 码编码，同时后向兼容现有 NR 系统支持的可靠度排序序列，最大限度的复用了现有技术。

本申请实施例提供的具体技术方案如下：

第一方面，提供一种 Polar 码编码方法，包括：

编码装置获取 K 个待编码比特、母码长度 N 和第一序列，所述第一序列中包含 N 个极化子信道的序号，所述 N 个极化子信道的序号在所述第一序列中是按照所述 N 个极化子信道的可靠度进行排列的，$N=2^n$，$K \leq N$，N 大于或等于 32，K、n 和 N 为正整数；

根据所述第一序列确定用于放置所述 K 个待编码比特的 K 个极化子信道并进行极化编码，得到编码后的比特序列；

对所述编码后的序列进行速率匹配，得到速率匹配后的序列；以及

输出所述速率匹配后的序列；

其中所述第一序列为附录中长度为 N 的任一个 Q 序列。

这种设计切合了大数据块的特点，而且可以后向兼容现有 NR 系统支持的可靠度排序序列，减小了实现难度。

在一个可能的设计中，所述第一序列为第二序列的子序列，所述第二序列中包含 N_{max} 个极化子信道的序号，所述 N_{max} 个极化子信道的序号在所述第二序列中是按照所述 N_{max} 个极化子信道的可靠度进行排列的，N 小于或等于 N_{max}，$N_{max} = 2^{n_{max}}$，其中 n_{max} 为正整数，n 小于或等于 n_{max}，所述第二序列为附录中的任一个长度为 N_{max} 的 Q 序列

在一个可能的设计中，所述 K 个待编码比特中，包括循环冗余校验比特。

在一个可能的设计中，所述 K 个待编码比特中，包括奇偶校验比特。

在一个可能的设计中，所述 Polar 编码方法由网络设备或终端执行。

在一个可能的设计中，所述根据所述第一序列确定用于放置所述 K 个待编码比特的 K 个极化子信道为：当 M 小于或等于 N 时，所述 K 个待编码比特映射到 M-P 个非打孔的极化子信道中可靠度较高的 K 个极化子信道，使得 K 个待编码比特所在的极化子信道的可靠度高于其余 M-P-K 个极化子信道的可靠度，M 为目标码长，P 为预冻结的极化子信道的数目，P 大于或等于 0。

在一个可能的设计中，所述第一序列是预先存储的。

在一个可能的设计中，所述 N 个极化子信道的序号为 0~（N-1）或 1~N。

第二方面，提供一种 Polar 码解码方法，包括：

解码装置获取待解码信息序列，其中包括 K 个待解码比特；

确定母码长度 N 和和第一序列，所述第一序列中包含 N 个极化子信道的序号，所述N个极化子信道的序号在所述第一序列中是按照所述N个极化子信道的可靠度进行排列的，$N=2^n$，$K\leq N$，N 大于或等于 32，K、n 和 N 为正整数；

根据所述第一序列确定用于放置所述K个待解码比特的K个极化子信道并对所述待解码信息序列进行解码，获取解码结果；

输出所述解码结果；

其中所述第一序列为附录中长度为 N 的任一个 Q 序列或者为附录中长度大于 N 的任一个 Q 序列的子序列。

这种设计与第一方面的编码方法完全对应，因此同样切合了大数据块的特点，也可以后向兼容现有 NR 系统支持的可靠度排序序列，减小了实现难度。

在一个可能的设计中，所述第一序列为第二序列的子序列，所述第二序列中包含 N_{max} 个极化子信道的序号，所述 N_{max} 个极化子信道的序号在所述第二序列中是按照所述 N_{max} 个极化子信道的可靠度进行排列的，N 小于或等于 N_{max}，$N_{max}=2^{n_{max}}$，其中 n_{max} 为正整数，n 小于或等于 n_{max}，所述第二序列为附录中的任一个长度为 N_{max} 的 Q 序列

在一个可能的设计中，所述 K 个待编码比特中，包括循环冗余校验比特。

在一个可能的设计中，所述 K 个待编码比特中，包括奇偶校验比特。

在一个可能的设计中，所述 Polar 编码方法由网络设备或终端执行。

在一个可能的设计中，所述根据所述第一序列确定用于放置所述 K 个待编码比特的 K 个极化子信道为：当 M 小于或等于 N 时，所述 K 个待编码比特映射到 M-P 个非打孔的极化子信道中可靠度较高的 K 个极化子信道，使得 K 个待编码比特所在的极化子信道的可靠度高于其余 M-P-K 个极化子信道的可靠度，M 为目标码长，P 为预冻结的极化子信道的数目，P 大于或等于 0。

在一个可能的设计中，所述第一序列是预先存储的。

在一个可能的设计中，所述 N 个极化子信道的序号为 0~（N-1）或 1~N。

第三方面，提供一种 Polar 码编码装置，该装置具有实现上述第一方面和第一方面的任一种可能的设计中所述的方法的功能。所述功能可以通过硬件实现，也可以通过硬件执行相应的软件实现。所述硬件或软件包括一个或多个与上述功能相对应的模块。

在一个可能的设计中，当所述功能的部分或全部通过硬件实现时，所述 Polar 码编码装置包括：输入接口电路，用于获取待编码比特；逻辑电路，用于执行上述第一方面和第一方面的任一种可能的设计中所述的操作；输出接口电路，用于输出速率匹配后的序列。

可选的，所述 Polar 码编码装置可以是芯片或者集成电路。

在一个可能的设计中，当所述功能的部分或全部通过软件实现时，所述 Polar 码编码装置包括：存储器，用于存储程序；处理器，用于执行所述存储器存储的所述程序，当所述

程序被执行时，所述 Polar 码编码装置可以实现如上述第一方面和第一方面的任一种可能的设计中所述的方法。

可选的，上述存储器可以是物理上独立的单元，也可以与处理器集成在一起。

在一个可能的设计中，当所述功能的部分或全部通过软件实现时，所述 Polar 码编码装置包括处理器。用于存储程序的存储器位于所述 Polar 码编码装置之外，处理器通过电路/电线与存储器连接，用于读取并执行所述存储器中存储的程序。

在一个可能的设计中，所述装置为网络设备或终端。

第四方面，提供一种 Polar 码解码装置，该装置具有实现上述第二方面和第二方面的任一种可能的设计中所述的方法的功能。所述功能可以通过硬件实现，也可以通过硬件执行相应的软件实现。所述硬件或软件包括一个或多个与上述功能相对应的模块。

在一个可能的设计中，当所述功能的部分或全部通过硬件实现时，所述 Polar 码解码装置包括：输入接口电路，用于获取待解码信息序列；逻辑电路，用于执行上述第二方面和第二方面的任一种可能的设计中所述的操作；输出接口电路，用于输出解码结果。

可选的，所述 Polar 码解码装置可以是芯片或者集成电路。

在一个可能的设计中，当所述功能的部分或全部通过软件实现时，所述 Polar 码解码装置包括：存储器，用于存储程序；处理器，用于执行所述存储器存储的所述程序，当所述程序被执行时，所述 Polar 码解码装置可以实现如上述第一方面和第一方面的任一种可能的设计中所述的方法。

可选的，上述存储器可以是物理上独立的单元，也可以与处理器集成在一起。

在一个可能的设计中，当所述功能的部分或全部通过软件实现时，所述 Polar 码解码装置包括处理器。用于存储程序的存储器位于所述 Polar 码解码装置之外，处理器通过电路/电线与存储器连接，用于读取并执行所述存储器中存储的程序。

在一个可能的设计中，所述装置为网络设备或终端。

第五方面，提供了一种通信系统，该通信系统包网络设备和终端，所述网络设备执行如上述第一方面及其可能的设计所述的方法而所述终端执行执行如上述第二方面及其可能的设计所述的方法，或者所述终端网络设备执行如上述第一方面及其可能的设计所述的方法而所述网络设备执行执行如上述第二方面及其可能的设计所述的方法，。

第六方面，提供了一种计算机存储介质，存储有计算机程序，该计算机程序包括用于执行第一方面和第一方面的任一可能设计中任一种所述的方法的指令。

第七方面，提供了一种计算机存储介质，存储有计算机程序，该计算机程序包括用于执行第二方面和第二方面的任一可能设计中任一种所述的方法的指令。

第八方面，本申请实施例提供了一种包含指令的计算机程序产品，当其在计算机上运行时，使得计算机执行上述各方面所述的方法。

第九方面，提供了一种无线设备，包括用于实施第一方面和第一方面的任一可能设计的编码装置和收发器，

所述收发器用于接收或发送信号。

在一个可能的设计中，所述无线设备为终端或者网络设备。

第十方面，提供了一种无线设备，包括用于实施第二方面和第二方面的任一可能设计的编码装置和收发器，

所述收发器用于接收或发送信号。

在一个可能的设计中，所述无线设备为终端或者网络设备。

附图说明

图 1 为本申请实施例中应用的通信系统架构示意图；

图 2 为本申请实施例中 Polar 码编码方法的流程示意图；

图 3 为本申请实施例中 Polar 码编码装置结构示意图之一；

图 4 为本申请实施例中 Polar 码编码装置结构示意图之二；
图 5 为本申请实施例中 Polar 码装置结构示意图之三；
图 6 为本申请实施例中 Polar 码编码装置结构示意图之四；
图 7 为本申请实施例中 Polar 码解码装置结构示意图之一；
图 8 为本申请实施例中 Polar 码解码装置结构示意图之二；
图 9 为本申请实施例中 Polar 码解码装置结构示意图之三；
图 10 为本申请实施例中 Polar 码解码装置结构示意图之四。

具体实施方式

下面将结合附图，对本申请实施例进行详细描述。

如果不考虑数据信道的特点，直接将现有 5G NR 标准中用于控制信道的 Polar 码编码方式照搬到数据中，由于目前的 5G NR 标准中，Polar 码的母码长度最长为 1024，所以能支持的数据包长度有限。因此有必要重新设计 Polar 码的编码方式，以便更适应于数据信道，同时最好能兼顾适用于控制信道。

本申请实施例提供一种 Polar 码编码方法及装置，根据预先存储的可靠度排序序列或者其子序列，按照可靠度排序选择用于发送信息比特的极化子信道的序号，按照所选择的信息极化子信道序号进行 Polar 码编码，然后对编码后的序列进行速率匹配操作，并输出速率匹配后的序列，其中速率匹配操作包括重复或者打孔或者缩短。本申请实施例更适用于数据信道。下面结合附图详细说明本发明实施例提供的 Polar 码编码方法和装置。

为方便对本申请实施例的理解，下面对 Polar 码作简单介绍。

Polar 码的编码策略利用无噪信道传输用户有用的信息，全噪信道传输约定的信息或者不传信息。Polar 码也是一种线性块码，其编码矩阵为 G_N，编码过程为 $x_1^N = u_1^N G_N$，其中 $u_1^N = (u_1, u_2, \ldots, u_N)$ 是一个二进制的行矢量，长度为 N（即码长，可以看到，编码前后的序列 x 和 u 的长度均为 N，N 也称为母码码长）；G_N 是一个 $N \times N$ 的矩阵，且 $G_N = F_2^{\otimes(\log_2(N))}$。$F_2^{\otimes(\log_2(N))}$ 定义为 $\log_2 N$ 个矩阵 F_2 的克罗内克（Kronecker）乘积。上述矩阵 $F_2 = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$。在有些实现方式中，在 u_1^N 和 G_N 还可以有个转置矩阵，由于本质上不影响 Polar 码的性能，因此本申请不再赘述。

Polar 码的编码过程中，u_1^N 中的一部分比特用来携带信息，称为信息比特集合，这些比特的索引的集合记作 A；另外的一部分比特设置为接收端和发送端预先约定的固定值，称之为冻结比特集合或冻结比特集合（frozen bits），其索引的集合用 A 的补集 A^c 表示。Polar 码的编码过程相当于：$x_1^N = u_A G_N(A) \oplus u_{A^C} G_N(A^C)$，这里，$G_N(A)$是 G_N 中由集合 A 中的索引对应的那些行得到的子矩阵，$G_N(A^C)$是 G_N 中由集合 A^c 中的索引对应的那些行得到的子矩阵。u_A 为 u_1^N 中的信息比特集合，数量为 K，一般地，包括但不限于循环冗余校验（Cyclic Redundancy Check，简称 CRC）比特和奇偶校验（Parity Check，简称 PC）比特在内的各类校验比特也可以都包括在信息比特集合中；u_{A^C} 为 u_1^N 中的冻结比特集合，其数量为(N-K)，是已知比特。这些冻结比特通常被设置为 0，但是只要接收端和发送端预先约定，冻结比特的值可以被任意设置。从而，Polar 码的编码输出可简化为：$x_1^N = u_A G_N(A)$，这里 u_A 为 u_1^N 中的信息比特集合，u_A 为长度 K 的行矢量，即 $|A| = K$，$|\cdot|$ 表示集合中元素的个数，K 为

信息块大小，$G_N(\mathrm{A})$是矩阵G_N中由集合A中的索引对应的那些行得到的子矩阵，$G_N(\mathrm{A})$是一个$K\times N$的矩阵。

在确定母码码长N后，Polar码的构造过程即集合A的选取过程，决定了Polar码的性能。Polar码的构造过程通常是，根据母码码长N确定共存在N个极化子信道，分别对应编码矩阵的N个行。

在不考虑速率匹配的情况下，将可靠度较高的前K个极化子信道的索引作为集合A的元素，剩余（N-K）个极化子信道对应的索引作为冻结比特的索引集合A^c的元素。集合A决定了信息比特的位置，集合A^c决定了冻结比特的位置。极化子信道的序号即为信息比特或者冻结比特的位置索引，也即在u_1^N中的位置索引。

当考虑速率匹配的时候，主要是考虑打孔(puncture)或缩短(shorten)的时候，一般是先确定需要打孔或缩短（即删除）的N-M个极化子信道，这里M是目标码长，即速率匹配后的比特序列长度，这里选出的N-M个极化子信道用于放置冻结比特。在5G NR标准中，针对打孔的情形，还额外确定了一些称为预冻结的极化子信道，也用于放置冻结比特，这里不妨将预冻结的极化子信道数量定义为P，P大于或者等于0（5G NR中，对于缩短的情形，P为0，这时候是可以不需要考虑P的，本申请对此则不予限制），然后在剩下的M-P个极化子信道中按照可靠度挑选其中可靠度较高的K个极化子信道用于放置K个信息比特。当然，也可以先选择可靠度较低的M-P-K个子信道用于放置冻结比特，而余下的K个子信道则用于放置信息比特。放置K个信息比特的K个极化子信道中的任意一个极化子信道的可靠度都高于用于放置冻结比特的M-P-K个子信道中的任意一个子信道的可靠度。在本申请中，对P的取值不做限制，即使对于打孔的情形，P也可以为0，即使对于缩短的情形，P也可以取为大于0，并不影响本申请技术方案的实施，无论是编码端还是解码端，确认K个子信道用于放置K个信息比特的原则和方法是一致的。5G NR标准中，对于N-M个极化子信道的选取，其方案是将子块交织（分成32个子块）后的序列放到循环缓存（英文为circular buffer，相当于速率匹配序列）上，如果是打孔，则在循环缓存上从第N-M个位置开始读取，丢弃从0到N-M-1位置上的比特，如果是缩短，则在循环缓存上从第0个位置开始读取直至第M-1个位置，而丢弃从第M到N-1位置上的比特。一般地，采用长度为母码长度N的可靠度排序序列用来表征不同极化子信道之间的可靠度相对关系，该可靠度排序序列包括N个极化子信道的序号（从0开始到N-1），可以按照可靠度从高到低或者从低到高的方式进行排列，不失一般性，本申请均以可靠度从低到高的方式举例。

需要说明的是，这里说的可靠度的相对关系是基于一个给定的可靠度的计算方式，不同的可靠度计算方式可能会导致极化子信道的可靠度相对关系发生变化，但选择放置信息比特的极化子信道的方法是一样的。在5G NR标准之外，信息比特也可以考虑放置于最后被打孔或者缩短的极化子信道。本申请并不限制必须按照5G NR的标准选择放置信息比特的极化子信道。

在5G NR标准中，不同母码长度对应的可靠度排序序列之间满足嵌套特性，即母码长度N小于或等于母码长度N’时，N对应的可靠度排序序列中的各极化子信道（极化子信道0，…，N-1）的可靠度的相对关系与这些极化子信道（极化子信道0，…，N-1）在N’对应的可靠度排序序列中的可靠度相对关系一致，换言之，在N’对应的可靠度排序序列中，只保留小于N的极化子信道号且不改变该N个极化子信道号位置的前后相对关系，就可以得到N对应的可靠度排序序列了，因此可以称长度为N的可靠度排序序列为长度为N’的可靠度排序序列的子序列，N小于或等于N’。例如N’=8，可靠度排序序列1为[0, 4, 6, 2, 3, 1, 7, 5]，相应地，若N=4，可靠度排序序列2为[0,2,3,1]，则序列2为序列1的子序列。因此具体实现中，既可以把不同母码长度的可靠度排序序列都预先存储下来，也可以只预先存储长度等于最大母码长度N_{max}的可靠度排序序列，然后其他母码长度N对应的可靠度

排序序列就从最大母码长度对应的可靠度排序序列中只保留小于 N 的极化子信道的序号而得到，这样可以节省存储开销。特别地，一个序列也可以是其自身的子序列，因此 N 最大也可以等于 N_{max}。

图 1 为本发明实施例无线通信网络的结构示意图。图 1 只是一种示例，其它能用到本发明实施例的编码方法或装置的无线网络也都在本发明的保护范围内。

如图 1 所示，无线通信网络 100 包括网络设备 110，和终端 112。当无线通信网络 100 包括核心网 102 时，该网络设备 110 还可以与核心网 102 相连。网络设备 110 还可以与 IP 网络 104 进行通信，例如，因特网（internet），私有的 IP 网，或其它数据网等。网络设备为覆盖范围内的终端提供服务。例如，参见图 1 所示，网络设备 110 为网络设备 110 覆盖范围内的一个或多个终端 112 提供无线接入。除此之外，网络设备之间的覆盖范围可以存在重叠的区域，例如网络设备 110 和 120。网络设备之间还可以可以互相通信，例如，网络设备 110 可以与网络设备 120 之间进行通信。

上述网络设备可以是用于与终端设备进行通信的设备。例如，可以是 LTE 系统中的演进型基站（Evolved Node B，eNB 或 eNodeB），还可以是 5G 网络中的 gNB，还可以是卫星通信中的卫星，或者未来通信系统中的网络侧设备等。或者该网络设备还可以是中继站、接入点、车载设备等。在设备对设备（Device to Device，D2D）通信系统、机器对机器（Machine to Machine，M2M）通信系统和车联网系统中，该网络设备还可以是担任基站功能的终端。

上述终端可以指用户设备（User Equipment，UE）、接入终端、用户单元、移动站、远方站、远程终端、移动设备、用户终端、无线通信设备、用户代理或用户装置。接入终端可以是蜂窝电话、无绳电话、会话启动协议（Session Initiation Protocol，SIP）电话、无线本地环路（Wireless Local Loop，WLL）站、个人数字处理（Personal Digital Assistant，PDA）、具有无线通信功能的手持设备、计算设备或连接到无线调制解调器的其它处理设备、车载设备、可穿戴设备，未来通信网络中的终端设备等。

基于图 1 所示的通信系统架构，本申请实施例中，执行 Polar 码编码方法的执行主体可以为上述网络设备或终端，当网络设备或终端作为发送端发送数据或信息时，均可以采用此 Polar 码编码方法。相应的，当网络设备或终端作为接收端接收数据或信息时，也需要根据本发明所述的方法确认可靠度排序序列然后进行解码。下面将对本申请实施例提供的 Polar 码编码方法做详细介绍。

基于图 1 所示的通信系统架构，如图 2 所示，本申请实施例提供的 Polar 码编码方法具体流程如下所述。

操作 210：获取 K 个待编码比特、目标码长 M、母码长度 N 和第一序列，该第一序列为可靠度排序序列，包含 N 个极化子信道的序号，该 N 个极化子信道的序号在第一序列中是按照所述 N 个极化子信道的可靠度进行排列的，$N=2^n$，$K \leq N$，考虑到 Polar 码的应用场景，N 可以取为大于或等于 32 的值，M、K、n 和 N 为正整数；

这里的 K 个待编码比特中，可以只包括载荷比特，也可以在除了载荷比特外还包括 CRC 比特、PC 比特等等其他各种类型的非冻结比特中的一类或者多类。

在 5G NR 系统中规定了如何由目标码长 M 和码率等因素获取母码长度 N，由于这并非是本申请要解决的技术问题，因此直接沿用，但并非标明本申请的方案只能采用 5G NR 的方式获取母码长度 N。

确定 N 后，就可以确定长度为 N 的第一序列。如前所述，该第一序列可以是预先存储的，也可以是第二序列中取出的长度为 N 的子序列，其中第二序列是长度为最大母码长度 N_{max} 的可靠度排序序列。具体地，第一序列可以是附录中长度为 N 的任一个 Q 序列或者是附录中长度大于 N 的任一个 Q 序列的子序列，第二序列可以是附录中长度为 N_{max} 的任一个 Q 序列，第一序列为第二序列的子序列，N 小于或等于 N_{max}。N_{max} 可以为 2048、4096、8192

和 16384 中的任一个。

本申请基于译码实现、速率匹配、码块重传等考量，在附录中提供了八组适用于长码块编码的 Polar 码可靠度排序序列，每组序列均按可靠度包括长度分别为 2048、4096、8192 和 16384 的按可靠度从小到大排列的可靠度排序序列（Qx_y 序列，x 为 1 到 8 中任意一个整数，y 为 2048、4096、8192 和 16384 中任意一个值，在不影响理解的情况下，通称 Q 序列，下同）以及对应的可靠度位置序列（Zx_y 序列，x 为 1 到 8 中任意一个整数，y 为 2048、4096、8192 和 16384 中任意一个值，在不影响理解的情况下，通称 Z 序列，下同）。对于 Q 序列，序列中的每个值是极化子信道的序号，它在序列中的位置就是可靠度排序，位置越是在前，则可靠度越小。对于 Z 序列，序列中的每个值是这个值所在位置（即所在的极化子信道）的可靠度在所有极化子信道的可靠度中的排序。Q 序列和 Z 序列是一一对应的，一个简单的例子，若 Q 序列为[0, 4, 6, 2, 3, 1, 7, 5]，则对应的 Z 序列为[0,5,3,4,1,7,2,6]，他们都表示极化子信道 5 的可靠度最高，其次是极化子信道 7，再次是极化子信道 1，以此类推，可靠度最小的是极化子信道 0。注意附录中只给出了长度大于 1024 的可靠度排序序列，这是因为这些序列都是后向兼容的，即 5G NR 协议中规定的长度为 N_{max}=1024 的可靠度排序序列是附录中任意一个 Qx_y 序列的子序列，也即 5G NR 协议中采用的长度分别为 32、64、128、256、512 或 1024 的可靠度排序序列是附录中任意一个 Qx_y 序列的子序列。在实际实施的时候一般采用 Q 序列来选取 K 个极化子信道，但也可以用 Z 序列来选取。

序列组一（即 Q1_y 和 Z1_y）：设计该序列的准则是能够在保证译码性能的同时还可以为 Polar 译码提供更高的并行度，从而进一步降低译码时延；

序列组二（即 Q2_y 和 Z2_y）：目前 NR 中，除了重复的速率匹配方案之外，基于码率分为打孔和缩短两种速率匹配方式；设计该序列的准则是偏重于优化考虑打孔的速率匹配方式下的性能；

序列组三（即 Q3_y 和 Z3_y）：目前 NR 中，除了重复的速率匹配方案之外，基于码率分为打孔和缩短两种速率匹配方式；设计该序列的准则是偏重于优化考虑缩短的速率匹配方式下的性能；

序列组四（即 Q4_y 和 Z4_y）：数据信道中需要支持 HARQ，目前业界通常采用的的 Polar 码 HARQ 方案主要包括 IR 和 IF 两种，设计该序列的准则是兼顾 IR（Incremental Redundancy，增量冗余）和 IF(Incremental Frozen，增量冻结)的 HARQ 的性能；

在数据信道的高吞吐通信场景下，系统会定义若干固定的 MCS 格式，相应的所需母码长度预计包括 2048/4096/8192/16384 等，在不同的细分场景下，母码长度出现的几率会有所不同，因此本发明针对不同的母码长度以及调制方式，有针对性设计了一些可靠度排序序列。

序列组五（即 Q5_y 和 Z5_y）：优先考虑 16QAM 调制方式时的性能，但也能保证其他调制方式下的性能可以满足要求；

序列组六（即 Q6_y 和 Z6_y）：优先考虑 64QAM 调制方式时的性能，但也能保证其他调制方式下的性能可以满足要求；

序列组七（即 Q7_y 和 Z7_y）：优先考虑母码长度为 2048 时的性能，但也能保证其他母码长度下的性能可以满足要求；

序列组八（即 Q8_y 和 Z8_y）：优先考虑母码长度为 4096 时的性能，但也能保证其他母码长度下的性能可以满足要求。

需要注意的几点：

1、5G NR 协议中给定的长度为 1024 的可靠度排序序列为附录中任一 Q 序列的子序列，这样在满足数据信道编码需求的同时，又保证了对现有协议的兼容，相应的，5G NR 协议中采用的长度分别为 32、64、128、256、512 或 1024 的可靠度排序序列是附录中任一 Q 序列的子序列。

2、序列中少数元素之间的位置互换。例如，序号位置可以在设定幅度内调整，例如，

设定幅度为 5，将序号为 10 的元素位置在左右 5 个位置内调整均可；

3、序列中的部分元素进行调整，但是根据该序列选择出用于传输 T 比特信息的信道集合是一致或相似的。

4、序列中包含从 0 开始到 N-1 结束的 N 个元素，从 0 开始到 N-1 结束的 N 个元素代表 N 个极化子信道的序号。实际上，N 个极化子信道的序号也可以从 1 开始到 N 结束，将上述序列中各序号均加 1 即可，这也是上述各计算方式中的序号形式。当然，也可以采取其他方式表示上述极化子信道的序号或者标识，该具体表达方式不影响序列中所表示的极化子信道的具体位置。

操作 220：根据所述第一序列确定用于放置所述 K 个待编码比特的 K 个极化子信道并对 K 个待编码比特进行极化编码，得到编码后的比特序列；

具体的编码操作可以参见前述的描述。可以先确定速率匹配的具体模式，对于打孔或缩短的情形，先确定到底打孔或者缩短掉（即删除掉）哪些极化子信道以及可能的 P 个预冻结极化子信道（P 大于或等于 0），然后在剩下的 M-P 个极化子信道中按照可靠度挑选其中可靠度较高的 K 个极化子信道用于放置 K 个信息比特。对于重复的情形，则直接在 N 个极化子信道中按照可靠度挑选其中可靠度较高的 K 个极化子信道用于放置 K 个信息比特。解码侧也可以通过同样的方式确定 K 个信息比特的位置。

操作 230：对所述编码后的比特序列进行速率匹配操作获取长度为 M 的速率匹配后的比特序列。

具体的速率匹配操作，可以参照 5G NR 中先进行块交织然后在循环缓存上依次取位的方式，也可以采用预设的速率匹配序列来进行，在此不做限定。

操作 240：输出速率匹配后的序列。

注意如果考虑调制操作，这里输出的就应是基于速率匹配后的比特序列进行调制后的序列，该序列为符号序列，此时序列的长度也就不一定还是 M 了。如果不考虑调制，则速率匹配后的序列即为速率匹配后的比特序列。在不影响理解的情况下，在本申请中对“速率匹配后的序列”和“速率匹配后的比特序列”这两个术语并不加以严格区分。

上述图 2 所示的实施例是发送端的操作，接收端的操作也是类似的，接收机（或者接收装置）在接收到待解码信息序列后，也需要根据类似的方法，具体而言，获取包括 K 个待解码比特的待解码信息序列、目标码长 M 和母码长度 N，确定第一序列从而根据所述第一序列确定用于放置所述 K 个待解码比特的 K 个极化子信道，并对待解码信息序列进行解码操作，从而得到并输出解码结果，详细的解码算法这里不做限定。

如图 3 所示，本申请实施例中还提供一种 Polar 码编码装置 300。图 3 所示的 Polar 码编码方法中的部分或全部可以通过硬件来实现也可以通过软件来实现。

对于 Polar 码编码装置 300，基于图 2 所示的 Polar 码编码方法的同一发明构思，该 Polar 码编码装置 300 用于执行图 2 所示的 Polar 码编码方法。当通过硬件实现时，Polar 码编码装置 300 包括：输入接口电路 301，用于获取待编码比特；逻辑电路 302，用于执行上述图 2 所示的 Polar 码编码方法，具体请见前面方法实施例中的描述，此处不再赘述；输出接口电路 303，用于输出速率匹配后的序列。进一步地，速率匹配后的序列还是经过调制的序列，这个序列是调制后的符号序列，它们输出给收发器 320，收发器 320 对调制后的序列进行相应处理（包括但不限于数模变换和/或变频等处理）后通过天线 330 发送出去。可选的，Polar 码编码装置 300 在具体实现时可以是芯片或者集成电路。

可选的，当上述实施例的 Polar 码编码方法中的部分或全部通过软件来实现时，如图 4 所示，Polar 码编码装置 400 包括：存储器 401，用于存储程序；处理器 402，用于执行存储器 401 存储的程序，当程序被执行时，使得 Polar 码编码装置 400 可以实现上述实施例提供的 Polar 码编码方法。

可选的，上述存储器 401 可以是物理上独立的单元，也可以如图 5 所示，存储器 501 与处理器 502 集成在一起。

可选的，当上述实施例的编码方法中的部分或全部通过软件实现时，Polar 码编码装置 400 也可以只包括处理器 402。用于存储程序的存储器 401 位于 Polar 码编码装置 400 之外，处理器 402 通过电路/电线与存储器 401 连接，用于读取并执行存储器 401 中存储的程序。

基于图 2 所示的 Polar 码编码方法，如图 6 所示，本申请实施例还提供了一种 Polar 码编码装置 600，Polar 码编码装置 600 用于执行图 2 所示的 Polar 码编码方法，Polar 码编码装置 600 包括：

获取单元 601，用于获取 K 个待编码比特；

编码单元 602，用于确定母码长度 N 和第一序列（长度为 N 的可靠度排序序列），根据母码长度 N 对该 K 个待编码比特进行极化编码，得到编码后的比特序列，具体编码过程可参见前述实施例的操作 220；

速率匹配单元 603，用于对编码后的比特序列进行速率匹配操作获取长度为 M 的速率匹配后的比特序列 （或者是对该比特序列进一步通过调制的序列，也称为速率匹配后的序列），具体的速率匹配方法可参见前述实施例的操作 230。

与发送端相对应，接收端的装置也可以进行类似的设计。

如图 7 所示，Polar 码解码装置 700 包括：输入接口电路 701 用于获取待解码信息序列，逻辑电路 702 用于执行前述的 Polar 码解码的方法，以获取解码后的信息比特；输出接口电路 703 用于输出解码后的信息。Polar 码解码装置 700 还可以包括收发器 720 通过天线 730 获取待解码信息序列。在具体实现时可以是芯片或者集成电路。

可选的，当上述实施例的 Polar 码解码方法中的部分或全部通过软件来实现时，如图 8 所示，Polar 码解码 800 包括：存储器 801，用于存储程序；处理器 802，用于执行存储器 801 存储的程序，当程序被执行时，使得 Polar 码解码装置 800 可以实现上述实施例提供的 Polar 码解码方法。

可选的，上述存储器 801 可以是物理上独立的单元，也可以如图 9 所示，存储器 901 与处理器 902 集成在一起。

可选的，当上述实施例的解码方法中的部分或全部通过软件实现时，Polar 码解码装置 800 也可以只包括处理器 802。用于存储程序的存储器 801 位于 Polar 码解码装置 800 之外，处理器 802 通过电路/电线与存储器 801 连接，用于读取并执行存储器 801 中存储的程序。

处理器 402 和/或处理器 802 可以是中央处理器（central processing unit， CPU），网络处理器（network processor，NP）或者 CPU 和 NP 的组合。

处理器 402 和/或处理器 802 还可以进一步包括硬件芯片。上述硬件芯片可以是专用集成电路（application-specific integrated circuit，ASIC），可编程逻辑器件（programmable logic device，PLD）或其组合。上述 PLD 可以是复杂可编程逻辑器件（complex programmable logic device，CPLD），现场可编程逻辑门阵列（field-programmable gate array，FPGA），通用阵列逻辑（generic array logic，GAL）或其任意组合。

上述实施例中的存储器可以包括易失性存储器（volatile memory），例如随机存取存储器（random-access memory，RAM）；存储器也可以包括非易失性存储器（non-volatile memory），例如快闪存储器（flash memory），硬盘（hard disk drive，HDD）或固态硬盘（solid-state drive，SSD）；存储器还可以包括上述种类的存储器的组合。

基于上述的 Polar 码解码方法，如图 10 所示，本申请实施例还提供了一种 Polar 码解码装置 1000，Polar 码解码装置 1000 用于执行前述的 Polar 码解码方法，Polar 码解码装置 1000 包括：

获取单元 1001，用于获取待解码信息序列；

处理单元 1002，用于确定母码长度 N 的第一序列（长度为 N 的可靠度排序序列），对待解码信息序列序列进行解码的操作，从而得到并输出解码结果；

本申请实施例还提供了一种计算机存储介质，存储有计算机程序指令，该计算机程序指令由计算机执行时，使得前述的 Polar 码编码方法或者 Polar 码解码方法被执行。

本申请实施例还提供了一种包含指令的计算机程序产品，当其在计算机上运行时，使得前述的 Polar 码编码方法或者 Polar 码解码方法被执行。

本领域内的技术人员应明白，本申请的实施例可提供为方法、系统、或计算机程序产品。因此，本申请可采用完全硬件实施例、完全软件实施例、或结合软件和硬件方面的实施例的形式。而且，本申请可采用在一个或多个其中包含有计算机可用程序代码的计算机可用存储介质（包括但不限于磁盘存储器、CD-ROM、光学存储器等）上实施的计算机程序产品的形式。

本申请是参照根据本申请实施例的方法、设备（系统）、和计算机程序产品的流程图和/或方框图来描述的。应理解可由计算机程序指令实现流程图和/或方框图中的每一流程和/或方框、以及流程图和/或方框图中的流程和/或方框的结合。可提供这些计算机程序指令到通用计算机、专用计算机、嵌入式处理机或其他可编程数据处理设备的处理器以产生一个机器，使得通过计算机或其他可编程数据处理设备的处理器执行的指令产生用于实现在流程图一个流程或多个流程和/或方框图一个方框或多个方框中指定的功能的装置。

这些计算机程序指令也可存储在能引导计算机或其他可编程数据处理设备以特定方式工作的计算机可读存储器中，使得存储在该计算机可读存储器中的指令产生包括指令装置的制造品，该指令装置实现在流程图一个流程或多个流程和/或方框图一个方框或多个方框中指定的功能。

这些计算机程序指令也可装载到计算机或其他可编程数据处理设备上，使得在计算机或其他可编程设备上执行一系列操作步骤以产生计算机实现的处理，从而在计算机或其他可编程设备上执行的指令提供用于实现在流程图一个流程或多个流程和/或方框图一个方框或多个方框中指定的功能的步骤。

尽管已描述了本申请的优选实施例，但本领域内的技术人员一旦得知了基本创造性概念，则可对这些实施例作出另外的变更和修改。所以，所附权利要求意欲解释为包括优选实施例以及落入本申请范围的所有变更和修改。

显然，本领域的技术人员可以对本申请实施例进行各种改动和变型而不脱离本申请实施例的精神和范围。这样，倘若本申请实施例的这些修改和变型属于本申请权利要求及其等同技术的范围之内，则本申请也意图包含这些改动和变型在内。

附录：

序列组一：Q1_2048

[0,1,2,4,8,16,32,3,5,64,9,6,17,10,18,128,12,33,65,20,256,34,24,36,7,129,66,512,11,40,68,130,19,13,48,14,72,257,21,132,35,258,26,513,80,37,25,22,136,260,264,38,514,96,1024,1025,67,41,144,28,69,42,516,49,74,272,160,520,288,528,192,544,70,44,131,81,50,73,15,320,133,52,23,134,384,76,1026,1028,137,82,56,27,97,39,259,84,138,145,261,29,43,98,515,88,1032,1040,140,30,146,71,262,265,161,576,45,100,640,51,148,46,1056,1027,75,266,273,517,104,162,53,193,1029,1088,152,77,1033,1030,164,768,1041,1034,268,274,518,54,83,57,521,112,135,78,289,194,85,276,522,58,168,139,99,86,60,280,89,290,529,524,196,141,101,147,176,142,530,321,31,200,90,545,292,322,532,263,149,102,105,304,296,163,92,47,267,385,546,324,208,386,1042,1152,150,153,165,106,55,328,536,577,548,113,154,79,269,108,578,224,1036,1057,166,519,552,195,1089,1044,270,641,523,275,580,291,59,169,560,114,277,156,1280,1058,87,197,116,170,61,531,525,642,281,278,526,177,293,388,1048,1060,91,584,769,198,1031,1153,172,120,201,336,62,282,1090,1536,143,103,178,294,93,644,202,592,323,392,297,770,107,180,1035,1064,151,209,284,648,94,204,298,400,608,352,325,533,155,210,305,547,300,109,1092,1154,1043,1037,184,534,537,115,167,225,326,306,772,157,656,329,1072,1038,110,117,212,171,776,330,226,549,1096,1281,538,387,308,216,1045,1156,416,271,279,158,337,550,672,118,332,579,540,389,173,121,553,199,784,179,228,338,312,704,1059,1282,390,174,554,581,393,283,122,448,353,561,203,63,340,394,527,582,556,181,1050,1537,1104,1061,1049,1046,295,285,232,124,205,182,643,562,286,585,1160,1284,299,354,211,401,1288,1062,1538,1120,185,396,344,586,1091,1065,1168,1052,645,593,1093,1066,535,240,206,95,327,564,1540,1073,800,402,356,307,301,417,213,568,832,588,186,646,404,227,896,594,1098,1296,1184,1544,1312,1552,418,302,649,771,1216,1568,360,539,111,331,214,309,188,449,1094,1068,1155,1105,217,408,609,596,551,650,229,159,420,310,541,773,610,657,333,119,600,339,218,368,652,230,391,313,1074,1097,450,542,1039,1344,334,233,555,774,175,123,1157,1076,658,612,341,777,220,314,424,395,673,583,1047,1158,355,287,183,234,125,557,660,616

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序列组一：Z1_2048

[0,1,2,7,3,8,11,24,4,10,13,28,16,33,35,78,5,12,14,32,19,38,47,82,22,46,42,91,59,99,107,174,6,17,21,40,23,45,51,93,2
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,183,267,126,184,201,278,211,299,318,452,147,207,231,307,238,319,341,477,259,347,364,497,385,516,552,728,15,
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27,1593,1268,1619,5168,5134,4206,4213,4308,4267,4872,4426,3588,3121,2848,2450,2404,2355,2349,2465,2261,26
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,3302,3680,3468,3862,3874,4441,2334,2753,2864,3248,2966,3250,3464,3685,2982,3453,3514,3870,3558,3917,4134,4618,3060,3548,3614,4075,3632,4141,4125,4664,3800,4235,4277,4842,4491,4906,4959,5364,301,433,460,706,492,777,840,1139,517,846,908,1158,951,1234,1238,1610,519,950,980,1233,1034,1369,1387,1728,1102,1388,1484,1849,1534,1916,1943,2385,533,991,1054,1383,1112,1473,1529,1904,1154,1538,1562,1970,1612,2021,2057,2460,1192,1585,1669,2028,1741,2126,2163,2538,1803,2133,2248,2594,2251,2624,2754,3349,743,1103,1136,1533,1170,1563,1611,2011,1275,1671,1709,2097,1809,2215,2238,2570,1327,1715,1817,2135,1887,2250,2257,2616,1926,2258,2272,2758,2495,2843,2918,3452,1366,1886,1922,2267,1975,2358,2384,2782,2023,2494,2517,2895,2586,2964,2990,3515,2096,2542,2593,2991,2699,3079,3157,3559,2851,3164,3282,3625,3303,3683,3866,4419,752,1157,1235,1668,1317,1714,1813,2222,1349,1824,1905,2259,1934,2286,2307,2777,1416,1923,1974,2332,2022,2473,2505,2890,2067,2536,2585,2981,2617,3061,3110,3516,1530,2010,2056,2516,2212,2573,2571,3062,2235,2598,2621,3100,2783,3158,3228,3627,2275,2712,2845,3169,2891,3297,3346,3686,2925,3444,3504,3871,3561,3919,4135,4619,1547,2099,2214,2614,2256,2696,2804,3165,2463,2850,2908,3300,2913,3348,3466,3861,2497,2909,2924,3455,3063,3471,3551,3916,3116,3560,3613,4084,3636,4176,4250,4667,2537,3083,3102,3517,3229,3563,3616,4127,3283,3634,3687,4234,3867,4278,4489,4881,3508,3741,3872,4281,4073,4545,4558,4957,4132,4563,4655,5038,4778,5170,5295,5779,811,1278,1341,1825,1414,1917,1971,2390,1458,1989,2027,2475,2098,2529,2590,3111,1542,2058,2221,

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672,118,332,579,540,389,173,121,553,199,784,179,228,338,312,704,1059,1282,390,174,554,581,393,283,2059,2088
,2116,2178,122,448,353,561,4108,4129,4161,4116,4352,4130,4120,4132,203,63,340,394,527,582,556,181,8192,819
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,285,232,124,205,182,643,562,286,585,1160,1284,299,354,2067,2061,2096,2062,211,401,1288,1062,1538,1120,185,
396,2120,2305,2069,2180,344,586,1091,1065,1168,1052,645,593,1093,1066,535,240,4103,4225,4162,4608,4107,41
36,4164,4226,206,95,327,564,1540,1073,800,402,356,307,301,417,2083,2306,2074,2561,213,568,832,588,186,646,4
04,227,896,594,1098,1296,1184,1544,1312,1552,4115,4109,4144,4110,4168,4353,4117,4228,418,302,649,771,1216,
1568,360,539,4131,4354,4122,4609,4176,4133,4121,4118,111,331,214,309,2128,2085,2073,2070,4232,4356,4360,4
134,4610,4192,5120,5121,188,449,1094,1068,1155,1105,217,408,2184,2308,2312,2086,609,596,551,650,229,159,42
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44,334,233,555,774,175,123,1157,1076,658,612,341,777,2115,2089,2192,2076,220,314,424,395,673,583,1047,1158,
355,287,183,234,125,557,660,616,1408,1100,342,316,241,778,1161,1106,563,345,452,397,403,207,1080,1051,674,5
58,785,432,2117,2090,2564,2097,2122,2320,2208,2568,357,187,1121,1063,1283,1108,236,664,8204,8225,8257,821
2,8448,8226,8216,8228,8199,8321,8258,8704,8203,8232,8260,8322,624,587,780,705,126,242,565,398,1162,1169,34
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1112,2118,2092,2179,2129,1164,1054,647,348,419,406,464,680,2098,2121,2063,2368,801,362,590,409,570,788,597
,572,219,311,1170,1095,1286,1289,708,598,601,651,1185,1600,1069,1124,421,792,802,611,602,410,1664,1075,231,
688,1172,1070,653,248,369,190,364,654,659,335,1099,1290,2181,2100,2071,2182,480,315,221,370,1297,1541,1128
,1186,613,422,425,451,4163,4137,4240,4124,4165,4138,4612,4145,614,543,235,412,343,372,1077,1217,8211,8205,
8240,8206,8264,8449,8213,8324,8227,8450,8218,8705,8272,8229,8217,8214,775,317,222,426,453,237,559,833,117
6,1101,1188,1792,1292,1298,804,712,2432,2124,3074,3076,2185,2130,2104,2075,2145,2087,2307,2132,834,661,80
8,779,617,604,433,720,816,836,347,897,1542,1078,1107,1081,243,662,1545,1136,2186,2193,2309,2077,454,318,67
5,618,4170,4368,4256,4616,4384,4624,4288,4640,898,781,376,428,2091,2146,2563,2136,3080,3088,2188,2078,665,
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3,1548,571,465,1220,1165,681,246,707,350,1125,1171,1200,1166,2321,2565,2152,2210,2101,2241,3077,3136,2200,
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2316,2322,2566,2102,2131,2105,2569,2160,793,250,371,481,4234,4241,4357,4125,4139,4194,4611,4184,1316,1346
,1556,1287,1173,1126,1129,1328,574,413,603,366,468,655,900,805,1320,1187,1116,1071,1291,1409,1570,1348,512
8,5136,4236,4126,6144,6145,6146,6148,615,684,710,429,1232,1410,794,252,373,605,848,690,1174,1177,713,632,4
82,806,427,904,2183,2126,2337,2242,414,223,1189,1130,2133,2324,2570,2106,663,692,835,619,1079,1352,1560,16
01,472,455,796,809,2216,2187,2147,2134,1572,1137,1178,1103,714,721,1293,1132,4242,4167,4358,4361,4257,467
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,2195,2224,2190,1083,1193,437,380,818,461,496,669,679,724,841,629,2578,2369,2079,2248,1584,1138,1301,1180,
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,251,462,2138,2593,2340,2370,2580,2311,2197,2150,442,441,1140,1194,1085,1555,1549,1666,1305,1302,1550,120
1,469,247,683,842,1317,1412,738,899,2153,2352,2344,2211,670,783,849,820,2140,2095,2315,2433,728,928,791,36
7,4248,4173,5129,5126,4260,4864,5137,5130,901,630,1115,1608,685,844,1793,1222,633,711,1196,1144,1225,1360,
253,691,2594,2372,2256,2434,1086,1306,1167,1127,824,902,1202,1318,3090,3200,2198,2201,4364,4370,4614,4150
,4179,4153,4617,4208,2213,2154,2103,2376,1117,1668,686,740,850,375,444,470,483,415,1226,1616,4231,4174,438
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084,3105,2214,2567,2600,2243,865,693,1329,1571,1324,1133,1208,1558,1561,1139,797,906,3137,3092,2318,2689,
715,807,1191,1249,2571,2323,2628,2339,1350,1330,474,636,694,254,717,575,913,798,1796,1181,1680,1353,811,37
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6,2142,2252,6161,6154,6162,6272,4155,4265,4656,4210,2346,2448,2656,2400,903,825,500,846,745,826,1235,1425,
1209,1420,732,446,962,936,475,853,1368,1610,867,637,8360,8331,8291,8278,8252,8472,8281,8482,8721,8716,838
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,4389,4484,5144,5156,6151,6273,6210,6656,255,964,1237,1592,2274,2597,3144,3329,1856,1612,909,719,1210,167
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,2331,1565,1797,860,499,731,823,1634,1681,1357,1143,1624,1363,2170,2496,2401,2609,1242,1392,1676,1254,922,
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42,4393,4866,4203,4276,5131,5160,4247,4305,1358,1257,1579,1798,1199,1147,1682,1636,2575,2630,2604,2229,30
98,3585,3152,3109,494,702,921,501,1365,1801,1244,1338,4380,4744,4190,4300,4394,4496,4704,4448,3097,3094,2
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8389,8308,8362,8253,8723,8717,8834,10252,10273,10305,10260,888,479,1213,1590,946,750,969,508,4322,4645,51
92,5377,4634,4483,4404,4312,5141,5252,4512,4367,4375,4254,4433,4646,861,757,970,919,2234,2694,2452,2275,2
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1704,1825,1386,1614,1433,4649,4295,4880,4275,4324,4434,4408,4800,1594,1812,1621,1596,1243,1335,977,923,84
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,8363,8968,8522,8418,8741,9288,9473,8730,8579,8500,8408,9237,9348,8608,8463,8471,8350,8529,8742,2267,2359
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341,777,220,314,1216,1568,2128,2085,2073,2070,424,395,673,583,1094,1068,355,287,183,234,1155,1105,125,557,
660,616,2184,2308,2312,2086,1074,1097,1039,1344,4103,4225,4162,4608,4107,4136,4164,4226,342,316,241,778,5
63,345,452,397,1157,1076,1047,1158,403,207,674,558,785,432,357,187,236,664,624,587,2562,2144,2115,2089,140
8,1100,780,705,126,242,565,398,1161,1106,346,456,358,405,1080,1051,2192,2076,2117,2090,1121,1063,303,569,24
4,595,189,566,4115,4109,4144,4110,4168,4353,4117,4228,676,361,706,589,215,786,647,348,2564,2097,2122,2320,
419,406,464,680,801,362,1283,1108,590,409,1162,1169,1285,1053,570,788,3072,3073,2208,2568,597,572,219,311,
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8,653,248,369,190,364,654,659,335,1286,1289,480,315,221,370,1185,1600,1069,1124,613,422,2118,2092,2179,212
9,425,451,1664,1075,4131,4354,4122,4609,4176,4133,4121,4118,614,543,235,412,2098,2121,2063,2368,343,372,11
72,1070,775,317,222,426,1099,1290,453,237,2181,2100,2071,2182,559,833,804,712,1297,1541,1128,1186,834,661,
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42,1078,2432,2124,2185,2130,4232,4356,4360,4134,4610,4192,4163,4137,898,781,376,428,2104,2075,2145,2087,1
107,1081,665,736,567,840,625,238,2307,2132,2186,2193,1545,1136,1159,1102,359,457,1313,1218,399,787,591,678
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9,374,2310,2313,2209,2624,2093,2148,2688,2099,423,466,793,250,1125,1171,1200,1166,5120,5121,4256,4616,438
4,4624,4288,4640,1554,1345,1055,1224,371,481,574,413,1114,1569,1316,1346,603,366,468,655,2196,2094,2123,23
14,900,805,615,684,1556,1287,710,429,2321,2565,2152,2210,4166,4140,4227,4177,4146,4169,4111,4416,1173,112
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16,472,455,796,809,1174,1177,1189,1130,714,721,837,716,864,810,606,912,2316,2322,2566,2102,1079,1352,722,6
96,377,435,817,319,2131,2105,2569,2160,4152,4123,4193,4135,4355,4180,4234,4241,1560,1601,621,812,1572,113
7,484,430,2183,2126,2337,2242,1178,1103,1293,1132,838,667,488,239,2133,2324,2570,2106,378,459,1602,1248,11
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,437,380,1294,1665,1547,1299,818,461,496,669,679,724,841,629,2137,2338,2577,2572,2244,2189,2149,2195,351,4
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1302,2578,2369,2079,2248,728,928,1550,1201,791,367,901,630,2138,2593,2340,2370,4141,4196,4736,4147,4244,4
142,4171,4362,2580,2311,2197,2150,1317,1412,685,844,633,711,1115,1608,1793,1222,1196,1144,1225,1360,253,69
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,1318,1117,1668,1226,1616,485,905,1347,1416,2153,2352,2344,2211,795,473,1321,1794,2140,2095,2315,2433,308
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174,4385,4290,4181,4372,4618,4154,1680,1353,698,914,2628,2339,3090,3200,752,868,1134,1141,819,814,1236,11
95,5152,5123,4264,4235,4195,4182,4156,4376,1800,1354,1250,1573,2107,2217,2608,2162,1562,1411,1332,1240,43
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,3170,3587,3160,2756,2646,2649,2699,4745,4867,4456,4635,5187,5161,5264,5148,4207,4427,4310,4405,6163,6157,6192,6158,863,759,1008,510,2469,2840,2850,2659,1597,1435,1827,1813,1733,1389,1464,1652,4284,4545,4313,4504,4705,4692,4647,4746,3212,3102,2650,2458,1713,1398,1447,1490,5189,5162,4325,4255,4516,4406,5636,5169,3218,3143,2279,2736,2701,2296,2417,2238,979,953,1817,1274,1395,1505,1598,1437,2412,2702,2707,2383,3334,3337,2528,2363,6216,6401,6165,6276,4637,4869,5194,5392,4706,4753,4429,4215,4696,4435,4314,4464,2269,2418,3233,3648,763,974,1627,1390,3117,3172,2661,2470,1492,1679,954,879,2473,2499,3712,3123,1924,1829,981,982,4748,4326,4487,4409,6179,6402,6170,6657,2662,2591,2283,2460,2391,2420,3220,3118,1639,1708,1734,1453,2823,2365,2270,2474,4546,4638,5280,5640,4430,4329,4651,4870,1818,1276,927,995,1397,1629,1872,1714,1737,1656,1506,1830,3147,3338,2501,2285,1451,1928,1438,1247,2607,2881,2852,2760,4271,4219,4754,4708,5408,5648,4437,4873,4316,4410,5312,5664,6224,6181,6169,6166,3345,3589,3176,3234,1687,1716,1859,1643,4520,4491,4769,4679,5190,5164,4451,4383,1496,1479,1820,1833,2882,2709,2856,2827,3125,3265,2665,2652,3224,3149,2481,2768,4279,4330,5251,5201,4221,4653,4756,4712,765,956,1738,1745,2864,2884,2395,2945,3236,3840,3340,3346,2291,2710,2502,2366,1861,1740,1888,1834,887,985,1630,1936,1746,1720,1401,1459,2723,2666,3590,3126,2946,2829,2424,2476,3155,3129,2713,2784,997,986,1841,1343,1645,1836,1508,1454,6280,6404,6408,6182,5170,5193,5135,5440,4438,4412,4337,4874,4659,4441,4548,4493,1862,1691,943,89

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,183,281,122,184,205,294,217,319,340,488,143,211,235,325,240,341,365,531,273,371,402,553,419,580,632,874,15,
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515,66,110,123,187,134,204,220,326,154,233,241,343,272,370,383,552,170,255,282,375,295,415,421,576,322,438,4
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447,602,633,812,652,869,905,1175,725,916,947,1170,1003,1250,1349,1692,20,37,41,92,49,96,108,181,50,109,119,1
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,416,186,292,308,432,318,458,477,650,185,316,329,457,352,491,517,699,378,539,561,735,601,773,815,1075,79,173
,179,288,195,312,328,450,207,335,347,489,366,530,548,731,275,362,377,533,410,558,600,768,442,605,638,806,671
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,1101,434,579,637,840,683,864,903,1180,703,914,968,1242,1020,1276,1340,1685,479,648,701,902,741,948,1001,12
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452,6544,7247,5097,5598,5737,6455,5888,6564,6702,7354,6024,6733,6872,7528,6957,7708,7891,8676,5291,5850,5
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9,1152,270,3072,641,523,275,580,291,59,1036,169,560,114,277,156,2057,87,197,1057,116,170,4101,61,531,525,64
2,281,1089,278,526,2054,177,293,388,91,1044,584,769,198,172,120,4160,201,2065,336,1280,62,282,143,103,178,2
94,1058,93,644,2058,202,592,323,1048,392,5120,297,770,107,180,151,1060,2066,209,284,648,94,204,298,1031,400
,608,352,2176,6144,325,533,1153,155,210,305,547,300,1090,109,2060,184,534,537,115,167,1536,4105,225,326,306
,772,2081,157,1035,656,329,110,117,212,1064,171,2113,776,4102,330,226,549,1092,538,387,308,216,2068,1154,41
6,271,279,158,337,1043,4113,550,672,2304,118,332,579,1037,540,389,173,121,1072,2082,553,199,784,4106,179,10
38,228,338,312,2072,704,390,1096,174,554,581,393,1281,4114,283,2084,122,448,353,1045,561,203,63,340,2055,11
56,394,527,582,4224,556,181,1059,2177,295,285,232,124,1282,205,182,643,2114,4108,562,1050,286,585,299,1537,
354,211,2560,401,185,1104,396,344,4129,586,645,2059,1061,593,535,240,206,1049,95,2088,327,564,4161,1046,80
0,402,356,307,2116,1160,301,417,213,568,1284,832,4116,2178,588,186,1288,646,404,227,896,2067,1062,594,418,4
352,302,1538,649,771,2061,360,539,1120,111,331,214,1091,2096,4130,309,188,449,1065,217,408,2062,609,596,11
68,551,650,4120,229,1052,2120,159,420,310,1093,541,773,2305,610,4132,1066,657,333,119,1540,3073,600,339,21
8,1073,368,652,4103,230,2069,1098,391,313,450,1296,542,2180,334,233,4225,1184,555,774,175,2083,1544,123,65
8,612,1312,2306,4162,341,777,220,1552,314,424,2074,395,1216,673,583,4608,355,1568,2561,287,183,234,1094,12
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97,674,4164,558,1039,785,432,2184,357,1344,187,236,664,4226,2308,1157,624,587,1076,780,2312,705,126,1047,4
115,242,565,1158,2086,398,346,456,1408,358,2562,4109,405,1100,303,569,244,2144,1161,595,189,4144,1106,566,2
115,676,361,1080,706,589,2089,1051,4110,215,786,647,1121,2192,348,419,1063,406,4168,464,2076,680,1283,801,
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1600,6145,451,614,1069,2592,543,235,1124,412,4609,2118,343,372,1664,775,317,2092,1075,222,4176,426,1172,21
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,4118,604,433,1186,720,2368,816,1077,4232,836,347,2181,1217,897,243,1176,2100,4356,662,454,1101,318,3076,6
75,1188,618,4360,898,2071,1792,781,376,2182,1292,4134,428,1298,665,2432,736,1542,567,840,4610,2124,1078,62
5,238,1107,2185,359,4192,457,1081,399,2130,787,1545,591,1136,4163,2104,678,434,1159,2075,677,349,4137,1102
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65,4368,628,1125,689,2078,374,1171,4256,423,2194,466,1200,793,2119,1166,4616,250,371,1554,2310,481,1345,57
4,4384,2313,413,1055,603,2209,1224,4624,366,468,1114,2624,655,1569,900,4288,2093,805,1316,615,3088,1346,46
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53,875,3100,1243,5131,2207,1335,4752,2468,862,2358,4425,1732,3141,4206,1622,2589,758,4213,1625,2821,4308,1675,2658,948,5160,3114,1445,4267,2705,1816,2381,6209,977,2167,4872,1826,3588,1635,4426,2648,923,4322,2387,1626,2266,4645,1434,972,5188,3121,1255,2416,4634,1712,2700,4483,761,2278,1677,4404,3146,1272,4312,2439,877,6164,2361,1393,2498,5250,1214,3344,4512,1388,2590,952,4367,2382,1678,4375,2281,1683,495,4254,3232,1359,4433,2603,1504,5139,2822,703,2223,4646,1339,3592,4768,1245,2171,935,6400,2706,1394,4214,2660,1637,4428,3360,978,2389,4675,1446,2825,5133,1449,2268,1475,4636,3600,883,4485,2362,1638,4269,2472,1567,2443,4217,762,3264,5168,1259,2721,6178,1436,2631,503,4649,2403,1367,4295,3616,1396,4880,2335,925,2231,4275,1799,2282,5134,1341,3142,4324,1246,2173,878,4434,2605,1450,4408,2708,1477,6168,3116,735,2664,4800,1261,2390,4486,1583,2364,5192,1857,3203,4270,993,2289,1828,4650,2826,1736,4677,3153,885,4489,2611,1858,2393,5377,1685,2500,4379,939,3122,6180,1832,2445,4218,1803,2451,1641,4544,2255,994,4449,3145,1628,5141,2722,1457,4657,2606,980,3087,4299,1744,2833,4159,1840,2480,4436,1860,2405,6151,926,3392,5252,1371,2235,1921,4490,2284,764,4623,2712,1267,4678,3205,1686,4652,2672,1478,2635,4277,941,3124,5155,1342,2828,6273,1699,2753,4391,967,2174,4381,1642,3095,4328,1922,2290,1805,4220,2613,886,5378,1400,1452,4301,3206,831,4278,2446,1689,4739,2394,1760,6210,2504,1591,3456,4658,947,2406,5146,1864,2453,4382,1649,3148,4681,507,2351,4395,1262,2617,5633,1383,2292,4450,1481,3209,889,4307,2643,1423,6656,2237

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1077,4232,836,347,2181,1217,897,243,8211,1176,2100,4356,662,454,1101,318,3076,675,1188,618,4360,898,8205,2
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2817,1605,880,5184,2246,8290,1417,742,2220,4237,1307,445,2168,8707,1146,4197,2249,471,1472,2384,4243,1377
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408,609,596,2116,551,650,229,159,4106,420,2178,310,1168,541,1052,773,610,657,333,1093,119,1066,2067,4114,2
061,600,339,1540,218,2096,368,652,1073,230,391,313,4224,450,542,1098,334,1296,233,555,2062,774,175,123,118
4,658,2120,612,341,2305,777,220,314,2069,1544,424,1312,395,4108,673,4129,583,355,1552,2180,1216,4161,287,1
83,234,1568,125,557,1094,660,616,342,316,2083,1068,241,778,2306,563,2074,1155,345,452,397,2561,4116,403,11
05,207,2128,1074,4352,674,558,785,1097,432,1039,357,187,1344,236,664,1157,624,4130,587,780,1076,2085,1047,
705,2073,126,242,2070,1158,565,398,2184,346,456,2308,4120,358,405,303,569,2312,1408,4132,244,1100,1161,595
,1106,189,4103,566,676,1080,1051,1121,361,2086,706,589,2562,1063,215,786,647,348,2144,2115,419,406,464,680,

4225,801,2089,4162,1283,362,1108,590,409,1162,4608,570,1169,788,1285,2192,1053,4107,2076,597,1067,572,112
2,219,311,2117,708,598,2090,1539,601,651,421,792,4136,802,2564,611,1112,602,1164,410,231,2097,4164,688,653,
1054,248,1170,2122,4226,369,2320,190,364,1095,654,2208,1286,659,1289,335,480,4115,315,4109,221,3072,370,11
85,613,2568,1600,4144,422,425,2336,451,1069,614,543,1124,235,412,2576,343,372,2240,1664,775,317,2592,4110,
2118,1075,222,1172,426,4168,2092,453,4353,237,1070,559,1099,2179,1290,4117,833,804,712,1297,834,661,1541,8
08,779,2129,1128,617,604,2098,1186,433,4228,720,2121,816,1077,2063,1217,836,2368,347,897,2181,1176,4131,24
3,1101,2100,662,4354,2071,1188,4122,454,318,675,1792,618,2182,1292,4609,898,781,1298,1542,376,428,1078,665
,4176,736,567,1107,2432,1081,1545,840,2124,2185,625,238,2130,1136,359,457,2104,399,787,2075,2145,4133,591,
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,4360,363,2132,127,1163,191,2186,1123,782,407,2193,436,626,2309,2077,1110,571,465,681,2091,246,4134,707,21
46,4610,1084,350,1304,599,668,2563,1113,4192,4163,790,1314,1553,460,1548,2136,1220,4137,249,2188,682,1165,
573,1125,411,803,2078,1171,789,2194,1200,709,365,4240,440,628,4124,689,3073,2119,374,1166,423,2310,1554,41
65,466,793,2313,4138,1345,250,371,1055,481,574,1224,2209,4612,413,2624,1114,603,366,2093,1569,4145,2148,13
16,1346,468,1556,655,900,4170,2688,805,4368,615,3074,1287,684,1173,710,2099,1126,4256,429,794,2196,252,112
9,373,605,1328,848,690,2094,5120,2123,713,632,2314,1320,482,4616,806,2321,4384,1187,2565,1116,427,2152,107
1,904,4624,2210,1291,4288,414,1409,2101,223,1570,4640,2241,1348,4166,663,3076,692,835,1232,619,472,2200,14
10,4140,455,796,2125,1174,1177,809,714,2212,1189,721,4227,837,2816,716,1130,2316,1079,1352,864,2322,2566,4
177,810,2102,1560,4146,606,1601,2131,912,4169,2105,2569,1572,4111,722,696,377,4416,1137,435,2160,1178,422
9,1103,817,1293,1132,319,621,4148,1602,812,4119,484,3080,1248,430,1190,2183,1543,2126,1576,4230,838,2337,2
242,667,1219,488,2133,1294,239,378,2324,2570,459,622,2106,2216,1665,4480,627,437,2187,380,4172,4233,2147,1
547,4178,1299,818,1604,1315,461,4152,2134,1083,4123,496,4193,669,1193,1584,679,1138,1301,2108,1180,4135,7
24,2328,841,1111,629,2137,1221,351,467,2338,2577,1140,438,2572,2244,1194,737,251,4355,462,2189,442,4180,44
1,3088,2149,4234,1085,469,2195,1555,4241,247,683,2224,1549,4357,1666,4125,842,1305,1302,738,4139,1550,219
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91,4236,367,3104,2593,1196,901,1144,630,2340,2370,1225,4126,685,844,2580,4242,1360,633,711,1086,253,691,23
11,1306,5121,2197,4167,824,2150,1167,902,4358,686,2153,1127,4361,1202,2352,1318,1117,740,6144,1668,850,375
,4257,2344,1226,4672,444,3075,1616,2211,470,1347,4141,483,2140,1416,4196,415,3077,485,2095,905,1321,795,47
3,2315,1794,4736,634,744,2433,5122,2594,1131,852,960,2372,1204,865,4147,693,2256,4244,1175,2434,1233,1308,
797,2198,2201,1672,4142,4171,2213,1118,1228,4362,906,1322,2154,715,1424,4369,2103,2376,1632,4613,807,3136
,474,636,4200,1376,694,254,2584,1349,4258,1557,717,2625,1179,1234,575,913,4149,2596,1329,798,4289,811,3081
,5124,2161,379,1571,2202,1324,2127,1133,4248,697,2317,2156,4173,1208,431,2626,1558,4260,607,2272,1561,221
4,489,4864,2567,2600,1139,4364,866,723,2243,486,4370,1191,4614,2318,1249,4150,1350,3078,908,1330,1796,718,
813,4179,2689,1181,4153,476,4617,856,3089,1680,1353,839,1134,2571,1141,2323,1236,4208,725,2628,2339,698,1
195,914,2107,1800,752,868,2217,2608,5128,2162,819,2325,2204,1354,4231,814,4174,439,2135,929,4385,4290,308
2,2245,1250,4181,1573,490,2164,1562,4372,1411,623,4618,2218,1332,4154,1240,4264,671,1440,1295,739,1303,42
35,1182,2109,1361,4195,916,3090,2579,1574,463,1696,843,2573,2690,1142,4182,381,2329,2326,1356,1603,497,25
74,2225,1564,930,821,4156,2341,2436,726,4376,961,3200,2139,1413,4185,1197,872,2632,2817,1145,4386,4625,49
2,2246,1577,4620,1223,4292,631,1808,1203,729,4237,2220,1252,5136,2168,1362,4197,700,2249,1336,443,4243,17
28,741,2384,1414,4272,1198,2110,1578,1605,845,2330,6145,1417,920,382,4238,2191,3084,1307,4626,822,3105,21
51,1146,2226,851,1472,4417,730,2342,2141,1377,4127,498,3137,880,2692,4296,1585,742,445,2250,1227,4186,471,
635,2640,1087,5152,2371,1364,4641,932,2440,1418,687,4388,4418,2345,1551,4628,1606,2818,1580,1205,1319,903
,6146,2155,1309,4359,825,4245,2228,1256,1148,4198,500,3092,1229,2199,846,1206,4201,2257,2332,1667,4400,74
5,3328,826,2696,732,1586,446,962,2142,2252,1310,4392,1609,936,2346,5123,2448,1323,475,853,4259,2656,1378,8
67,4188,637,3106,5125,2400,4143,1235,2373,1425,2581,1209,4363,907,2203,2258,1420,4481,1368,4642,2353,1610
,1669,4420,487,6148,1617,2595,695,1559,4304,2348,2157,1264,4482,746,3096,828,2232,753,4246,1230,4249,854,2
582,1119,4261,1351,3108,857,2585,1588,1824,504,799,4202,2163,1426,4151,255,4424,964,3079,5184,2215,1380,9
09,1331,2273,1325,2374,1441,4632,719,2354,2820,4673,1237,477,2205,1592,4644,915,2704,2377,1856,5129,2158,
4209,2165,2260,1612,4250,638,4175,748,2219,944,4365,1210,4204,3201,2824,1670,4674,1428,3138,869,6152,1251
,4320,1920,491,699,4262,2378,1618,4615,1442,4648,754,3584,1326,1673,858,1795,4291,2274,1384,2597,1563,436
6,478,3083,2586,5126,2435,968,1135,383,2356,2264,1355,4737,910,2464,2319,5137,2327,1238,815,2206,2385,133
3,4619,976,4371,2598,2720,870,4676,4387,3112,2166,1212,4155,1473,917,2380,2627,1241,4265,1432,4656,4210,2
588,1633,4373,1620,3140,4252,727,1575,1674,493,1253,4183,2437,1183,5130,2221,1444,4293,873,3202,2169,1334
,701,4212,1565,931,2601,2247,1797,4266,1634,2832,2227,1681,1357,756,2276,6160,2386,1143,860,499,4157,2360,
3091,5138,2752,4627,731,3085,2438,1624,2222,4621,1363,4738,823,2602,2629,1242,4377,4374,3120,922,2441,139
2,4622,1676,4273,874,2331,1254,4389,1415,918,4484,2170,1337,5248,2496,1474,4187,502,2401,1566,933,4680,13
58,4865,2609,1257,4294,1579,3086,2251,1798,1199,1147,743,2111,6176,2388,1682,4268,760,4216,2442,3144,1636
,1365,4297,881,3329,2575,1801,2630,494,1244,4432,2604,2229,2343,1338,4158,702,3093,921,2333,4378,1448,501,
876,2280,2172,1419,4239,5132,847,2253,1697,5153,2230,1607,4199,992,4274,2691,1379,447,4390,4189,3204,5185
,2610,1311,4740,1207,2334,1258,2633,1149,4298,1581,733,6147,2347,1684,4688,1640,4419,2402,1366,1340,4488,
827,3107,6149,1265,2259,934,1802,4393,2449,3330,2233,1587,4866,882,3098,937,2444,2392,963,1369,4203,747,2
634,2693,1476,4276,1421,3585,505,2641,5140,2583,1427,855,924,4247,2288,1231,4305,734,4380,829,3152,5376,2
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997,7780,7509,7025,7945,6638,7388,6072,7482,4026,6846,5615,7065,7592,6645,7020,7563,3951,4053,6991,5823,7841,7751,7136,7523,6591,4054,6055,7455,3999,7351,6098,7402,7293,7725,6877,6003,5882,7828,7784,5623,7510,7484,6971,6045,7409,7078,7946,5998,7731,4067,7026,5855,7081,7107,7513,6891,7620,3837,7565,6649,4028,7571,6999,7068,7375,6878,3959,6973,6113,7842,4057,7726,7953,7600,4069,6005,6059,7525,7355,6114,7404,7832,7109,6100,7792,7755,6046,5884,7948,7082,7028,6061,6650,7873,7294,4058,7410,6893,7733,7566,7089,7110,7514,7624,4015,6899,6087,7526,7003,7573,7471,7737,3963,7084,6006,4070,7412,5951,6974,7763,3838,7055,6067,7357,7734,5627,7844,7015,6009,6783,7529,6104,7874,3583,7757,7032,5871,7383,7954,6623,6062,7815,7516,7090,7587,7574,6894,7632,7848,7969,4060,7113,6116,6652,7530,7005,7758,4073,7577,6091,4023,7738,6901,7956,7114,6010,4074,5629,7765,7740,7063,6069,7387,7479,6093,7876,7766,7019,7769,7819,7006,7589,6120,7960,7970,3965,6902,6012,7779,7092,7770,5119,7578,4047,7399,3966,7856,7821,7121,7416,7067,6070,7537,7116,7358,7532,5983,7822,4081,5879,6905,7827,7021,7503,7648,4027,6128,7483,7389,7096,7538,6639,7781,5630,7590,4076,7593,7619,7782,7711,6847,6099,7403,7580,6073,7511,7540,7079,7943,7122,7485,5883,4082,7027,6094,6906,7390,6647,7594,4029,7069,7621,7405,7022,7727,6879,4055,6074,8001,4030,7972,7880,8002,7829,5999,6101,7976,7947,7785,7772,7137,6102,7601,7888,6047,7984,7029,7083,7138,8004,7515,4059,8065,7124,7411,7070,6908,7830,4084,7085,6115,7622,7486,7843,7786,4071,5885,8066,7949,6076,7544,7596,7111,6007,7833,7904,6105,7735,7030,6117,6975,8008,7793,4088,7406,7091,7527,7625,6651,7567,7955,7033,7759,7128,7846,7602,7845,3839,6895,6106,7517,7086,7413,4061,6063,7626,7834,7788,7140,6011,7531,6118,7295,7359,7115,5886,7950,7575,7604,7794,7034,7739,7633,6653,7849,7414,7875,4075,7093,5631,7117,7518,7767,4062,7836,4077,7958,7144,7628,7036,6108,7417,7850,7741,6121,7579,7971,6071,7957,7094,7877,7533,7608,6122,7796,7857,7007,7542,6903,7591,7634,4031,7961,7418,7539,7152,7649,7742,6013,7581,6654,7771,7534,6095,4083,6014,7123,7636,7097,7823,8068,7973,7783,6907,7852,7118,7878,6129,7597,4085,7962,7420,7541,7773,6075,8016,7858,7881,7800,7098,7650,7974,6124,7023,7125,7595,8072,3967,7126,7582,7071,7391,4078,6130,7831,7860,8003,7787,7640,6077,7623,7964,7977,7882,7139,6103,7889,8005,6078,7884,6909,7100,8032,4086,7978,7031,7774,7129,8080,7141,7890,7864,7545,7603,4089,6107,7985,7487,7789,6132,7980,7652,7598,7130,6119,8006,7835,7656,7087,7407,7546,7627,7790,7035,7795,7142,7605,7548,4090,6910,6136,7986,7629,4063,7664,7837,7847,6655,5887,7892,8009,7797,6109,7519,7635,7606,7132,7905,7419,7630,7610,7609,7145,7095,7637,7415,4092,7851,8010,7146,7906,6123,8067,7838,7951,6110,8017,6125,7988,7037,7896,8096,7959,7535,7119,8069,7038,7798,7853,4079,8012,7801,7879,7421,7859,7992,7153,8070,7854,6079,7099,7908,8018,7543,7612,7148,7638,7651,6131,7583,7653,8073,7963,7641,7802,7912,8020,8128,7154,8033,7861,6133,7101,7965,4087,7127,8074,7102,7883,7975,7642,7804,7862,7422,6015,7885,7743,8081,6126,7966,7979,7547,7131,7865,7599,7156,7775,7657,7143,8034,7891,7654,4091,6134,8076,7886,7981,7644,8024,8007,7160,6137,7893,7866,8082,7920,8036,7987,6911,7982,7607,8097,7133,7658,7791,4093,7839,7907,6138,8084,7631,8011,6111,7549,7665,7147,8098,7989,7894,8129,7134,7149,8040,4094,7660,7799,7897,7868,7611,7909,6140,8013,8088,7550,7990,7103,8019,7898,7666,8048,7910,7613,7639,7803,8100,7155,7855,6127,8071,7993,7668,7157,8014,7913,7994,7900,7614,8130,8104,7643,8021,8035,7805,7039,8075,7150,7655,7863,7914,7996,7921,8022,6135,8025,7672,7967,7423,8132,8077,7158,7887,7645,8083,7161,7806,7916,8112,8037,7659,7867,7922,8026,6139,7646,8136,7551,8078,7983,7162,8144,8038,7135,8085,4095,7895,7661,8041,7869,8099,6141,7924,8028,7667,7899,7164,7991,8090,8042,8086,7670,8101,6142,7911,7928,8049,7151,7662,7870,8089,7669,8044,8015,8160,7615,7901,7995,8102,8050,8105,8131,7915,7673,8023,8092,7902,7997,7159,8133,8106,8052,7674,7917,8113,8134,7923,8027,8108,7998,8079,7163,8039,7807,8056,7647,8114,7918,8137,7676,8029,7925,8138,7165,8087,8043,8030,7926,8116,6143,8145,8091,8140,7166,7929,8045,8120,7663,7871,8103,8146,8051,7930,7671,8093,8046,7903,8161,8053,8107,8162,8148,8094,7932,8109,8135,8054,7999,8115,7675,8057,8152,7919,8110,8164,8139,8058,7677,8117,8141,8168,8060,7167,8118,8031,7927,8176,7678,8147,8121,7931,8142,8122,8047,8149,8150,8095,8163,7933,8124,8055,8153,8165,8154,8111,8059,8166,7934,7679,8156,8169,8119,8170,8061,8143,8062,8177,8123,8172,8178,8125,8151,8126,8155,8180,8167,8184,7935,8157,8171,8158,8173,8127,8179,8181,8063,8174,8182,8185,8186,8159,8188,8175,8183,8187,8189,8190,8191]

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1002,817,977,1086,1358,593,781,844,1069,877,1112,1152,1427,924,1163,1161,1518,1258,1560,1614,1954,382,485,525,734,579,757,804,1029,618,835,857,1105,903,1124,1159,1463,654,883,936,1148,960,1168,1262,1564,1025,1276,1321,1626,1393,1709,1763,2143,719,944,994,1265,1083,1271,1375,1655,1098,1366,1437,1743,1498,1815,1922,2303,1129,1475,1553,1847,1597,1936,1888,2356,1684,2008,2061,2509,2169,2594,2711,3024,27,43,52,99,60,121,133,216,66,137,146,223,157,242,246,394,68,156,166,241,175,298,309,429,203,311,338,471,354,501,526,737,70,172,191,304,205,336,348,492,217,361,374,531,396,564,590,761,229,385,409,575,437,614,635,822,449,624,667,882,677,912,945,1335,110,204,212,353,225,375,395,553,252,411,425,603,453,643,663,842,274,428,464,631,490,675,683,894,513,686,695,952,778,983,1055,1362,293,489,504,693,539,727,736,968,567,777,808,1024,861,1078,1106,1442,601,830,878,1111,925,1144,1216,1504,991,1226,1280,1565,1322,1633,1724,2126,113,221,243,406,271,426,458,648,288,468,493,687,519,702,713,962,322,505,537,716,566,771,799,1019,599,819,859,1096,895,1131,1191,1449,349,551,589,806,636,846,843,1134,655,884,910,1173,971,1221,1241,1575,701,927,986,1230,1021,1292,1325,1659,1065,1353,1409,1744,1515,1828,1930,2320,370,608,642,888,682,921,973,1227,768,990,1035,1312,1042,1331,1387,1704,783,1038,1064,1373,1140,1406,1484,1812,1204,1507,1548,1854,1612,1969,2019,2375,821,1156,1182,1452,1249,1521,1559,1904,1281,1608,1666,2001,1726,2071,2155,2532,1414,1670,1751,2085,1841,2182,2232,2680,1910,2280,2350,2749,2439,2873,2997,3468,130,253,279,469,319,503,533,746,329,542,573,774,604,813,874,1193,363,591,647,838,669,918,900,1208,689,937,978,1275,1030,1299,1340,1685,438,657,691,915,767,966,996,1319,773,1034,1051,1342,1081,1388,1425,1781,785,1074,1121,1420,1201,1480,1540,1862,1236,1591,1610,1980,1668,2021,2105,2491,451,766,770,1022,789,1040,1093,1399,827,1142,1179,1465,1222,1529,1601,1943,985,1197,1252,1545,1286,1627,1674,2013,1395,1680,1755,2090,1846,2171,2223,2675,1047,1290,1372,1631,1415,1738,1790,2122,1492,1824,1875,2218,1937,2285,2370,2800,1555,1917,1993,2348,2059,2416,2486,2890,2136,2518,2589,2981,2630,3134,3154,3775,463,792,812,1188,963,1214,1239,1586,1005,1273,1309,1644,1384,1697,1775,2110,1058,1336,1411,1713,1459,1798,1880,2203,1533,1932,1869,2257,2014,2363,2438,2822,1205,1429,1479,1831,1572,1891,1985,2333,1621,1995,2056,2419,2098,2447,2539,2965,1728,2076,2151,2502,2236,2604,2660,3078,2299,2734,2785,3204,2879,3279,3302,3640,1287,1486,1615,1998,1692,2044,2077,2474,1768,2164,2188,2574,2265,2609,2754,3149,1786,2251,2339,2728,2432,2802,2815,3295,2523,2897,2946,3355,3056,3484,3563,3985,1950,2402,2422,2859,2557,2906,2987,3389,2624,3072,3095,3547,3225,3569,3792,4143,2697,3187,3264,3681,3373,3720,3854,4279,3433,3888,3969,4392,4064,4487,4566,4981,65,104,114,184,126,187,220,313,139,206,234,337,264,371,386,594,160,222,240,369,283,399,450,607,307,448,422,638,502,672,703,943,171,265,295,416,310,446,475,645,350,486,509,676,571,735,760,1004,376,520,587,751,605,786,818,1045,637,825,863,1127,891,1167,1228,1567,202,270,330,482,355,507,565,712,392,592,527,762,629,797,850,1073,432,584,632,823,662,856,881,1143,694,897,951,1195,1001,1248,1306,1676,481,639,678,873,738,913,975,1243,776,981,1043,1285,1076,1351,1400,1769,833,1068,1135,1370,1151,1402,1468,1845,1215,1495,1543,1903,1595,1966,2067,2568,250,328,359,577,408,600,613,848,454,630,665,870,696,911,931,1238,500,668,705,917,753,972,1032,1295,794,1033,1071,1333,1138,1391,1455,1819,536,726,780,999,802,1037,1087,1377,865,1132,1155,1410,1213,1491,1525,1902,920,1186,1245,1506,1289,1584,1602,1962,1357,1642,1730,2038,1795,2113,2268,2571,557,788,853,1097,906,1146,1203,1502,946,1219,1256,1562,1307,1599,1672,2017,1023,1297,1334,1638,1404,1708,1780,2139,1447,1801,1865,2206,1923,2297,2354,2826,1085,1380,1434,1740,1510,1816,1877,2244,1594,1896,1964,2324,2041,2368,2500,2969,1664,1983,2069,2437,2104,2542,2599,3084,2255,2636,2695,3061,2766,3176,3325,3844,287,393,420,660,455,670,715,970,461,717,764,1008,810,1075,1100,1451,529,769,814,1120,860,1136,1181,1453,893,1180,1232,1538,1298,1589,1618,1960,548,852,901,1123,958,1190,1247,1585,993,1274,1310,1625,1349,1700,1753,2094,984,1339,1385,1698,1445,1784,1827,2208,1517,1883,1928,2294,1978,2340,2453,2930,597,940,959,1263,1017,1328,1382,1678,1046,1398,1423,1773,1473,1840,1893,2288,1225,1457,1513,1860,1570,1915,1977,2330,1649,1999,2081,2428,2148,2538,2610,3044,1324,1551,1630,1953,1696,2036,2089,2506,1759,2128,2170,2564,2271,2665,2718,3147,1871,2263,2302,2696,2331,2768,2679,3215,2471,2915,2970,3353,2992,3536,3630,3950,626,1011,1027,1441,1192,1489,1523,1879,1267,1532,1574,1940,1647,2006,2075,2513,1313,1640,1688,2012,1736,2091,2154,2579,1803,2176,2242,2649,2326,2709,2820,3238,1450,1702,1749,2153,1822,2224,2310,2682,1935,2312,2359,2806,2473,2761,2944,3371,2031,2406,2527,2918,2584,2988,3053,3475,2667,3070,3067,3605,3223,3664,3741,4187,1546,1797,1886,2315,2004,2365,2451,2849,2083,2507,2547,2976,2628,3007,3063,3524,2156,2593,2687,3046,2732,3079,3229,3670,2843,3248,3317,3757,3423,3870,3940,4422,2290,2701,2789,3233,2939,3240,3400,3797,2962,3384,3490,3915,3578,4011,4148,4608,3014,3544,3654,4053,3718,4166,4102,4669,3836,4255,4323,4841,4451,4930,5056,5374,333,427,477,685,515,772,815,1089,546,826,862,1118,904,1175,1184,1579,555,902,934,1170,961,1330,1360,1660,1053,1364,1439,1761,1478,1830,1890,2319,562,955,1014,1347,1062,1436,1462,1813,1091,1500,1527,1898,1583,1968,2027,2373,1133,1558,1613,1991,1682,2074,2116,2484,1711,2096,2181,2592,2201,2644,2703,3337,729,1056,1080,1474,1122,1528,1581,1948,1199,1620,1652,2050,1722,2134,2174,2522,1260,1657,1747,2108,1809,2198,2215,2614,1857,2220,2238,2715,2400,2770,2895,3378,1317,1807,1836,2235,1914,2305,2317,2747,1974,2399,2458,2841,2555,2932,2978,3495,2047,2498,2586,2986,2670,3038,3156,3585,2783,3170,3254,3672,3320,3766,3893,4403,745,1109,1177,1606,1251,1653,1734,2146,1302,1754,1814,2222,1873,2250,2276,2737,1397,1839,1908,2283,1972,2389,2443,2834,2042,2477,2550,2959,2616,3017,3113,3505,1464,1945,2025,2456,2120,2530,2524,3022,2159,2595,2641,3086,2752,3162,3194,3685,2249,2673,2777,3178,2836,3271,3323,3803,2912,3362,3446,3917,3599,4026,4157,4625,1520,2063,2132,2602,2213,2663,2756,3171,2385,2782,2858,3306,2871,3332,3415,3861,2409,2863,2910,3396,3030,3440,3558,4006,3137,3590,3648,4062,3739,4204,4268,4689,2480,3060,3099,3510,3208,3608,3663,4124,3256,3733,3813,4247,3895,4334,4435,4863,3456,3819,3926,4350,4045,4469,4524,5022,4133,4581,4661,5094,4762,5224,5345,5787,807,1200,1278,1756,1386,1834,1901,2337,1413,1920,1986,2395,2054,2467,2577,3116,1505,2029,2141,2515,2186,2657,2623,3144,2227,2689,2763,32

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,677,2087,1159,4118,1102,349,1313,1218,245,4232,1109,458,4356,666,1300,620,1546,8212,1082,2307,1192,4360,3
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043,7388,7725,7025,7291,6638,7523,5855,7416,4045,6846,6003,7065,7768,6645,7020,7559,4080,4026,6991,5623,8
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999,7068,7954,6878,3999,6973,5884,7707,3959,7357,7755,7507,4069,6006,6061,7574,7402,6100,7832,7530,7109,5
997,7758,7874,6062,5871,7383,7082,7028,6104,6650,7471,7733,4057,7948,6893,7514,7784,7089,7110,7600,7825,3
838,6899,5627,7410,7003,7571,7737,7532,4074,7084,6067,4023,7358,6046,6974,7953,4060,7055,6005,7765,7726,6
087,7976,7015,6114,6783,7624,5823,7842,4015,7479,7032,6012,7516,7389,6623,5951,7566,7412,7090,7876,7821,6
894,7946,7770,7537,3963,7113,6070,6652,7757,7005,7590,4073,8001,6091,4070,7483,6901,7526,7114,6116,4029,6
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847,5999,7515,7782,6069,7711,7880,7079,7829,7122,7769,6099,4030,7027,5885,6906,7390,6647,7602,4082,7069,7
538,7413,7022,7622,6879,4027,6093,7943,4071,7822,8004,7587,7781,6128,6074,7625,7517,7843,7399,7137,6013,7
735,7972,6106,7596,7029,7083,7138,7544,7888,4061,7800,7124,7833,7070,6908,7414,4084,7085,5615,7772,7511,7
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080,7130,6103,7627,7795,7889,7087,8003,7652,7978,7598,7035,7985,7142,7739,7422,4087,6910,6126,7609,7853,4
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134,7149,8081,4063,7866,7989,7639,7799,7909,8100,6139,7631,7894,8013,7665,7103,8040,7407,8084,7914,8021,7
653,7855,7900,7990,7155,8104,6127,7928,8014,7806,7157,8129,7897,8071,7672,7993,8026,7910,7655,8098,7863,7
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151,8144,7991,8042,7667,8086,8105,8015,7915,7673,8056,7902,8133,8090,7670,8050,8027,7917,8101,7997,8120,7
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930,8103,8146,8057,8093,8161,7678,7932,8054,8109,8148,8045,8110,7919,8152,7675,8115,8094,8053,8135,8162,7
871,8060,7999,8118,8139,8164,8121,7931,8058,8149,8031,7167,8107,8142,7927,8168,8124,8047,8117,8147,7933,8

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696,1053,943,1238,788,1004,1122,1324,1080,1380,1491,1753,515,745,678,975,856,1032,1132,1351,825,1200,1056,1606,1175,1434,1450,1871,906,1118,1274,1489,1225,1528,1647,2288,1347,1683,1579,1902,1773,2027,2104,2768,565,776,881,1097,815,1138,1245,1506,931,1302,1177,1736,1364,1546,1640,1978,984,1215,1382,1594,1464,1676,1860,2054,1278,1803,1696,2201,1914,2141,2354,2936,1037,1413,1500,1819,1310,1747,1886,2400,1558,1966,2038,2222,1769,2513,2305,3648,1613,2004,2089,2477,2148,2368,2443,3124,1928,2579,2636,2858,2709,3396,2992,4430,283,393,427,632,482,726,665,958,502,685,848,1011,764,1071,1123,1402,555,797,738,1091,852,1232,1045,1462,920,1143,1260,1520,1186,1702,1630,2271,600,865,814,1334,993,1133,1192,1532,902,1219,1289,1834,1370,1584,1678,2063,1023,1400,1317,1734,1502,1653,1845,2134,1447,1801,1896,2181,1977,2315,2498,2841,645,1085,891,1251,946,1423,1298,1749,1046,1349,1474,1688,1527,1816,1908,2238,1151,1595,1451,2031,1391,1839,1893,2453,1682,1964,2074,2324,2139,2395,

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,1040,101,147,176,2049,142,530,321,31,200,90,1056,545,292,322,532,2050,263,149,102,105,304,4096,296,1030,16
3,92,1033,47,267,385,546,324,2052,208,386,150,153,165,106,55,328,1088,536,577,548,1034,113,154,79,269,108,57
8,2056,224,166,519,552,195,270,1041,641,1036,523,275,580,291,59,169,560,114,277,156,87,1152,197,116,170,206
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387,308,216,416,271,279,158,337,2066,550,672,1092,118,332,579,540,1072,2176,389,173,1037,121,553,199,784,17
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54,2082,1045,4101,211,401,1104,185,1061,396,344,586,645,1282,593,535,240,8193,2072,1050,206,95,327,2084,56
4,800,402,2055,4160,356,307,301,417,1160,213,1066,568,1120,832,4105,588,1035,8194,1537,186,2177,646,404,21
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,2312,1544,4132,244,1158,1097,595,1283,189,4103,566,676,1169,8195,1054,1108,361,2086,706,8197,589,2562,134
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7,614,543,1298,235,412,2576,343,372,2240,1185,775,317,2592,4110,8202,2118,1539,222,1099,426,4168,2092,453,
4353,237,1124,559,1170,2179,1292,4117,833,8210,804,712,1082,834,661,1053,808,779,2129,1217,617,604,2098,15
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4,423,2310,1556,4165,466,793,2313,4138,1130,250,371,1174,481,574,1348,2209,4612,413,2624,1109,603,366,2093
,1545,4145,8321,2148,1287,1055,8258,468,1570,655,900,4170,2688,805,4368,615,3073,8704,1166,684,1409,710,20
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,2321,4384,1132,8232,2565,1083,427,2152,1177,904,4624,2210,1569,8260,4288,414,1291,2101,223,1126,4640,224
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0,2328,841,1305,8218,629,2137,1584,351,467,2338,2577,1360,8705,438,2572,2244,1115,737,251,4355,462,2189,44
2,4180,441,3088,8272,2149,4234,1666,469,2195,1549,4241,247,683,2224,1196,4357,1226,4125,842,1412,1127,738,
4139,1144,2190,1308,4194,899,2578,1602,670,1318,8229,783,2369,1085,4611,8217,849,2079,1555,1193,8214,820,
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2594,1616,852,960,2372,1322,865,4147,693,8336,2256,4244,1131,8220,2434,1794,1350,797,2198,2201,1225,4142,
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272,1228,2214,489,4864,2567,2600,1324,9218,4364,866,723,2243,486,4370,1573,4614,8712,2318,1181,4150,1234,
3089,8480,908,1793,1561,718,813,4179,2689,1364,4153,476,4617,856,3084,8720,1117,1411,839,1329,8384,2571,1
295,2323,1146,4208,725,8736,2628,2339,698,1472,8262,914,2107,1249,752,868,2217,2608,5120,2162,8236,819,23
25,2204,1349,4231,814,4174,439,2135,929,4385,4290,3200,8323,2245,1197,4181,1578,490,2164,1139,4372,1680,6
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821,4156,2341,8244,2436,726,4376,961,3105,8215,2139,1203,4185,1182,872,2632,2817,1418,4386,4625,8326,492,
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,8576,741,2384,1378,4272,1562,8268,8329,2110,1356,1205,8274,845,2330,6145,1319,920,382,4238,2191,3077,824
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2345,1210,4628,1420,8276,2818,1612,1325,1800,8330,903,6146,2155,1134,4359,8337,825,4245,2228,1235,1361,84
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249,8454,854,2582,1237,4261,1326,3108,8457,857,2585,1368,1209,504,799,4202,2163,10240,1355,4151,255,4424,
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473,8246,756,2276,6160,2386,1334,860,499,4157,2360,3584,8275,5138,2752,8249,4627,731,3202,8713,2438,1648,
2222,4621,1238,4738,823,2602,2629,1575,4377,4374,3094,8304,922,2441,1199,4622,1674,4273,874,2331,1432,438
9,1421,918,4484,2170,1636,5153,2496,1254,9216,4187,502,2401,1795,933,4680,1366,4865,8327,8270,2609,1338,4
294,1682,8481,3144,8386,2251,1587,1211,1488,8277,743,2111,6176,2388,1358,4268,8468,760,4216,2442,3097,871
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2449,3152,8333,2233,1474,9232,4866,882,3109,8293,937,2444,2392,963,1419,4203,8339,747,2634,2693,1265,4276
,1119,3330,8368,505,2641,5376,2583,1381,855,924,4247,2288,10241,1810,4305,734,4380,829,3098,8334,5123,225
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,1533,1744,2091,1299,1879,1577,2161,1673,2018,2336,2829,1103,1633,1717,2270,1859,2544,2204,2779,2016,2411
,2486,3042,2115,3274,2948,4482,1401,1764,1943,2629,2100,2436,2370,3196,1829,2516,2749,2994,2664,3091,3382
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,1881,2866,2612,3221,2314,2637,3025,3351,2743,3449,3693,4255,2047,2913,2805,3481,3063,3758,3559,4210,3254
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1564,4289,5128,4248,4173,431,1142,607,1228,2156,2626,489,1324,2272,2214,866,723,2567,2600,486,1573,1181,1
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231,4174,4385,2164,2218,1413,916,1303,463,1236,843,2109,3090,1135,381,1672,1354,2579,2573,4290,4181,4372,
4618,4154,4264,4235,4195,497,1586,930,821,2690,2329,726,961,1203,1182,2326,2574,872,1418,492,1250,1332,63
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8325,2139,2632,1796,443,2817,2246,1307,741,2220,2168,1378,1562,1356,1205,845,1319,4386,4625,4620,4292,224
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61,4202,4151,4424,5184,857,1368,2582,3108,1209,504,799,1355,2585,2163,255,964,4632,4673,4644,5130,3138,22
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491,699,1253,4209,4250,4175,4365,1351,754,2378,3201,6146,6148,4204,4674,1183,1565,2274,2597,8832,9217,824
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,4324,4434,1729,761,1396,877,3124,2281,2603,2822,2223,2171,3203,2706,1207,1475,2660,2389,8728,8769,8740,9
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,2360,2793,1548,1902,1980,2332,2043,2404,2476,2882,2130,2501,2557,2970,2622,3099,3124,3759,463,787,809,11
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6,1922,1849,2259,2006,2343,2428,2819,1201,1415,1474,1823,1571,1878,1963,2322,1617,1981,2042,2405,2097,243
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67,632,957,171,249,273,395,309,421,481,609,329,509,447,868,547,657,702,1329,353,485,577,671,530,736,825,112
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955,815,1264,896,1160,1324,1634,668,855,1009,1196,931,1441,1250,1707,1065,1376,1515,2020,1351,1749,1822,2
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,3441,1432,1788,1970,2205,1870,2383,2313,2823,2066,2548,2457,2759,2298,2919,2995,3402,1841,2579,2508,2945
,2711,3131,3060,3575,2417,3039,3210,3923,3322,3799,3688,4457,907,1325,1158,1641,1238,1958,1593,2241,1460,
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3098,3537,1570,1933,2128,2396,2191,2674,2532,3174,1951,2492,2802,3066,2614,2983,3295,3643,2242,2762,2669,
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18,783,1085,849,4125,4139,4194,4611,1555,1193,820,1576,728,928,791,367,2578,2369,1376,901,2079,2248,2138,3
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,16236,16284,16153,16231,16219,16301,16255,16353,16292,16365,12811,13155,13414,14001,13598,14077,14205,
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8,16322,16346,16341,16366,16352,16367,16362,16378,16329,16350,16356,16368,16360,16369,16371,16375,16364
,16372,16374,16377,16376,16383,16380,16381]

权 利 要 求 书

1、一种极化码编码方法，其特征在于，包括：

编码装置获取 K 个待编码比特、母码长度 N 和第一序列，所述第一序列中包含 N 个极化子信道的序号，所述 N 个极化子信道的序号在所述第一序列中是按照所述 N 个极化子信道的可靠度进行排列的，$N=2^n$，K≤N，N 大于或等于 32，K、n 和 N 为正整数；

根据所述第一序列确定用于放置所述 K 个待编码比特的 K 个极化子信道并进行极化编码，得到编码后的比特序列；

对所述编码后的序列进行速率匹配，得到速率匹配后的序列；以及

输出所述速率匹配后的序列；

其中所述第一序列为附录中长度为 N 的任一个 Q 序列。

2、一种极化码解码方法，其特征在于，包括：

解码装置获取待解码信息序列，其中包括 K 个待解码比特；

确定母码长度 N 和和第一序列，所述第一序列中包含 N 个极化子信道的序号，所述 N 个极化子信道的序号在所述第一序列中是按照所述 N 个极化子信道的可靠度进行排列的，$N=2^n$，K≤N，N 大于或等于 32，K、n 和 N 为正整数；

根据所述第一序列确定用于放置所述 K 个待解码比特的 K 个极化子信道并对所述待解码信息序列进行解码，获取解码结果；

输出所述解码结果；

其中所述第一序列为附录中长度为 N 的任一个 Q 序列或者为附录中长度大于 N 的任一个 Q 序列的子序列。

3、根据权利要求 1 或 2 所述的方法，所述第一序列为第二序列的子序列，所述第二序列中包含 N_{max} 个极化子信道的序号，所述 N_{max} 个极化子信道的序号在所述第二序列中是按照所述 N_{max} 个极化子信道的可靠度进行排列的，N 小于或等于 N_{max}，$N_{max}=2^{n_{max}}$，其中 n_{max} 为正整数，n 小于或等于 n_{max}，所述第二序列为附录中的任一个长度为 N_{max} 的序列。

4、如权利要求 1-3 中任意一项所述的方法，其特征在于，所述 K 个待编码比特中包括循环冗余校验比特。

5、如权利要求 1-4 中任意一项所述的方法，其特征在于，所述 K 个待编码比特中包括奇偶校验比特。

6、如权利要求 1-5 中任意一项所述的方法，其特征在于，所述根据所述第一序列确定用于放置所述 K 个待编码比特的 K 个极化子信道为：当 M 小于或等于 N 时，所述 K 个待编码比特映射到 M-P 个非打孔的极化子信道中可靠度较高的 K 个极化子信道，使得 K 个待编码比特所在的极化子信道的可靠度高于其余 M-P-K 个极化子信道的可靠度，M 为目标码长，P 为预冻结的极化子信道的数目，P 大于或等于 0。

7、根据权利要求 1-6 中任一项所述的方法，其特征在于，所述第一序列是预先存储的。

8、根据权利要求 1-7 中任一权利要求所述的方法，所述 N 个极化子信道的序号为 0~（N-1）或 1~N。

9、一种极化 Polar 码编码装置，其特征在于，包括：

获取单元，K 个待编码比特，所述 K 为正整数；

编码单元，用于确定母码长度 N 和第一序列，以及根据所述第一序列确定用于放置所述 K 个待编码比特的 K 个极化子信道并进行极化编码，得到编码后的比特序列列，所述第一序列中包含 N 个极化子信道的序号，所述 N 个极化子信道的序号在所述第

一序列中是按照所述 N 个极化子信道的可靠度进行排列的，$N=2^n$，$K\leq N$，N 大于或等于 32，K、n 和 N 为正整数，其中所述第一序列为附录中长度为 N 的任一个 Q 序列或者为附录中长度大于 N 的任一个 Q 序列的子序列；以及

速率匹配单元，用于对所述编码后的比特序列进行速率匹配，获取并输出速率匹配后的比特序列。

10、 一种 Polar 码解码装置，其特征在于，包括：

获取单元，用于获取待解码信息序列，其中包括 K 个待解码比特；

处理单元，用于确定母码长度 N 和和第一序列，所述第一序列中包含 N 个极化子信道的序号，所述 N 个极化子信道的序号在所述第一序列中是按照所述 N 个极化子信道的可靠度进行排列的，$N=2^n$，$K\leq N$，N 大于或等于 32，K、n 和 N 为正整数，其中所述第一序列为附录中长度为 N 的任一个 Q 序列或者为附录中长度大于 N 的任一个 Q 序列的子序列，得到并输出解码结果；

所述处理单元还用于根据所述第一序列确定用于放置所述 K 个待解码比特的 K 个极化子信道并对所述待解码信息序列进行解码，获取并输出解码结果；

11、 根据权利要求 9 或 10 所述的装置，所述第一序列为第二序列的子序列，所述第二序列中包含 N_{max} 个极化子信道的序号，所述 N_{max} 个极化子信道的序号在所述第二序列中是按照所述 N_{max} 个极化子信道的可靠度进行排列的，N 小于或等于 N_{max}，$N_{max}=2^{n_{max}}$，其中 n_{max} 为正整数，n 小于或等于 n_{max}，所述第二序列为附录中的任一个长度为 N_{max} 的 Q 序列。

12、 如权利要求 9-11 中任意一项所述的装置，其特征在于，所述 K 个待编码比特中包括循环冗余校验比特。

13、 如权利要求 9-12 中任意一项所述的装置，其特征在于，所述 K 个待编码比特中包括奇偶校验比特。

14、 如权利要求 9-13 中任意一项所述的装置，其特征在于，所述根据所述第一序列确定用于放置所述 K 个待编码比特的 K 个极化子信道为：当 M 小于或等于 N 时，所述 K 个待编码比特映射到 M-P 个非打孔的极化子信道中可靠度较高的 K 个极化子信道，使得 K 个待编码比特所在的极化子信道的可靠度高于其余 M-P-K 个极化子信道的可靠度，M 为目标码长，P 为预冻结的极化子信道的数目，P 大于或等于 0。

15、 根据权利要求 9-14 中任一项所述的装置，其特征在于，所述第一序列是预先存储的。

16、 根据权利要求 9-15 中任一权利要求所述的装置，所述 N 个极化子信道的序号为 0~（N-1）或 1~N。

17、 一种 Polar 码编码装置，其特征在于，包括：

输入接口电路，用于获取 K 个待编码比特；

逻辑电路，用于基于所述 K 个待编码比特按照如权利要求 1、3~8 中任意一项所述的方法得到速率匹配后的序列；

输出接口电路，用于输出所述速率匹配后的序列。

18、 一种极化 Polar 码编码装置，其特征在于，包括：处理器，用于执行如权利要求 1、3~8 任一项所述的方法。

19、 如权利要求 18 所述的装置，其特征在于，还包括：存储器，用于存储由所述处理器执行如权利要求 1、3~8 中任一项所述的方法时所用的程序指令。

20、 一种 Polar 码解码装置，其特征在于，包括：

输入接口电路，用于获取待解码信息序列；

逻辑电路，用于按照如权利要求 2~8 中任意一项所述的方法对所述待解码信息序列

序列进行解码操作，从而得到解码结果；

输出接口电路，用于输出所述解码结果。

21、 一种极化 Polar 码解码装置，其特征在于，包括：处理器，用于执行如权利要求 2~8 任一项所述的方法。

22、 如权利要求 21 所述的装置，其特征在于，还包括：存储器，用于存储由所述处理器执行如权利要求 2~8 中任一项所述的方法时所用的程序指令。

23、 一种计算机可读介质，其特征在于，存储有计算机程序指令，当所述计算机程序指令由计算机执行时，使得如权利要求 1-8 中任意一项所述的方法被执行。

24、 一种程序产品，其特征在于，所述程序产品包括计算机程序指令，当所述计算机程序指令由计算机执行时，使得如权利要求 1-8 中任意一项所述的方法被执行。