

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z^2 + z, z^4 + z + 1)$$

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ABSTRACT. The continued fraction conjecture claims that the continued fraction defined by the (a, b) -Thue-Morse sequence is algebraic over $\mathbb{F}_2(x)$ for all pairs of distinct elements (a, b) in $\mathbb{F}_2[x] \setminus \mathbb{F}_2$. In this paper we prove the conjecture for $(a, b) = (z^2 + z, z^4 + z + 1)$.

1. INTRODUCTION

Let $\mathbb{F}_2$ be the finite field of cardinality 2. Given a sequence of polynomials $\mathbf{a} = (a_0(z), a_1(z), a_2(z), \dots)$ of elements from $\mathbb{F}_2[z] \setminus \mathbb{F}_2$, we define the infinite continued fraction

$$(1.1) \quad \text{CF}(\mathbf{a}(z)) = \frac{1}{a_0(z) + \frac{1}{a_1(z) + \frac{1}{a_2(z) + \frac{1}{\ddots}}}}$$

as the limit of the finite continued fractions

$$(1.2) \quad \text{CF}_n(\mathbf{a}(z)) = \frac{1}{a_0(z) + \frac{1}{a_1(z) + \frac{1}{\ddots + \frac{1}{a_n(z)}}}} \in \mathbb{F}_2((1/z)).$$

Conversely, each power series in $\mathbb{F}_2[[1/z]]$ without constant term

$$(1.3) \quad c_{-1}z^{-1} + c_{-2}z^{-2} + c_{-3}z^{-3} + \dots$$

admits a continued fraction expansion of form (1.1).

Let a and b be two distinct elements from $\mathbb{F}_2[z] \setminus \mathbb{F}_2$. We consider the continued fraction (1.1) associated with the (a, b) -Thue-Morse sequence

$$\mathbf{t} = (t_0(z), t_1(z), t_2(z), \dots) = (a, b, b, a, b, a, a, b, \dots)$$

that we shall denote

$$(1.4) \quad \text{CF}(a, b) := \text{CF}(\mathbf{t}).$$

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Theorem 1.1. *When $(a, b) = (z^2 + z, z^4 + z + 1)$, the two power series $\text{CF}(a, b)$ and $\text{CF}(b, a)$ are algebraic over $\mathbb{F}_2(z)$, with minimal polynomials of the form*

$$p_4(z)y^4 + p_3(z)y^3 + p_2(z)y^2 + p_1(z)y + p_0(z) = 0$$

where, for $\text{CF}(a, b)$,

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{14} + z^{13} + z^{11} + z^9 + z^8 + z^7 + z^5 + z^4 + z^2 + z + 1, \\ p_1(z) &= z^{22} + z^{21} + z^{19} + z^{18} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^6 + z^3 \\ &\quad + z, \\ p_2(z) &= z^{24} + z^{18} + z^{16} + z^{10} + z^4 + z^2, \\ p_3(z) &= z^{22} + z^{21} + z^{19} + z^{18} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^6 + z^3 \\ &\quad + z, \\ p_4(z) &= z^{20} + z^{17} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^7 + z^5 + z^4 + z, \end{aligned}$$

and for $\text{CF}(b, a)$,

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^9 + z^7 + z^5 + z^4 + z^2 + z, \\ p_1(z) &= z^{22} + z^{21} + z^{19} + z^{18} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^6 + z^3 \\ &\quad + z, \\ p_2(z) &= z^{24} + z^{18} + z^{16} + z^{10} + z^4 + z^2, \\ p_3(z) &= z^{22} + z^{21} + z^{19} + z^{18} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^6 + z^3 \\ &\quad + z, \\ p_4(z) &= z^{20} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^8 + z^7 + z^5 + z^4 \\ &\quad + z + 1. \end{aligned}$$

2. PROOF

Define the sequences of polynomials $(P_n(z))_{n \geq 0}$ and $(Q_n(z))_{n \geq 0}$ by

$$\begin{pmatrix} P_n(z) & Q_n(z) \\ P_{n-1}(z) & Q_{n-1}(z) \end{pmatrix} := \begin{pmatrix} t_n(z) & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} t_{n-1}(z) & 1 \\ 1 & 0 \end{pmatrix} \cdots \begin{pmatrix} t_0(z) & 1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}.$$

By the basic properties of continued fractions, we have

$$(2.1) \quad \text{CF}_n(a, b) = \frac{P_n(z)}{Q_n(z)} \in \mathbb{F}_2((1/z)).$$

As formula (2.1) is not efficient for calculating $\text{CF}_n(a, b)$, a fast method is to be derived and described as follows. Define

$$\begin{aligned} M_n(x) &= x^{\deg(t_{2^n-1})} \begin{pmatrix} t_{2^n-1}(1/x) & 1 \\ 1 & 0 \end{pmatrix} \times x^{\deg(t_{2^n-2})} \begin{pmatrix} t_{2^n-2}(1/x) & 1 \\ 1 & 0 \end{pmatrix} \times \\ &\quad \cdots \times x^{\deg(t_0)} \begin{pmatrix} t_0(1/x) & 1 \\ 1 & 0 \end{pmatrix}, \\ W_n(x) &= x^{\deg(\bar{t}_{2^n-1})} \begin{pmatrix} \bar{t}_{2^n-1}(1/x) & 1 \\ 1 & 0 \end{pmatrix} \times x^{\deg(\bar{t}_{2^n-2})} \begin{pmatrix} \bar{t}_{2^n-2}(1/x) & 1 \\ 1 & 0 \end{pmatrix} \times \\ &\quad \cdots \times x^{\deg(\bar{t}_0)} \begin{pmatrix} \bar{t}_0(1/x) & 1 \\ 1 & 0 \end{pmatrix}, \end{aligned}$$

where $\bar{\mathbf{t}}$ is the (b, a) -Thue-Morse sequence. By the properties of the Thue-Morse sequence, we have for $n \geq 0$

$$\begin{aligned} M_{n+1}(x) &= W_n(x) \cdot M_n(x), \\ W_{n+1}(x) &= M_n(x) \cdot W_n(x). \end{aligned}$$

Let $x := 1/z$. For each non-zero polynomial $P(z)$, define $\tilde{P}(x)$ to be $P(1/x)$. Then,

$$\text{CF}_n(a, b) = \frac{P_n(z)}{Q_n(z)} = \frac{\tilde{P}_n(x)}{\tilde{Q}_n(x)} \in \mathbb{F}_2((x)) = \mathbb{F}_2((1/z)).$$

Comparing the definition of $M_n(x)$ with the definition of $P_n(x)$ and $Q_n(x)$, we see that

$$\begin{aligned} M_n(x)_{0,1} &= x^{d_n} \tilde{P}_{2^n-1}(x), \\ M_n(x)_{0,0} &= x^{d_n} \tilde{Q}_{2^n-1}(x), \end{aligned}$$

for some positive integer d_n . Hence,

$$(2.2) \quad \text{CF}_{2^{2n}-1}(a, b) = \frac{\tilde{P}_{2^{2n}-1}(x)}{\tilde{Q}_{2^{2n}-1}(x)} = \frac{M_{2n}(x)_{0,1}}{M_{2n}(x)_{0,0}}.$$

Therefore, by the convergence theorem of continued fraction, the algebraicity of $\text{CF}(a, b)$ will be established if it is shown that both $M_{2n}(x)_{0,1}$ and $M_{2n}(x)_{0,0}$ converge to algebraic series in $\mathbb{F}_2[[x]]$.

Actually, we will prove that for all $0 \leq i, j \leq 1$ the four sequences $(M_{2n}(x)_{i,j})_n$, $(M_{2n+1}(x)_{i,j})_n$, $(W_{2n}(x)_{i,j})_n$, and $(W_{2n+1}(x)_{i,j})_n$ converge to algebraic series in $\mathbb{F}_2[[x]]$. For this purpose, we define four 2×2 matrices M^e, M^o, W^e, W^o as follows: For each $T \in \{M^e, M^o, W^e, W^o\}$ and $0 \leq i, j \leq 1$, $T_{i,j}$ is defined to be the unique solution in $\mathbb{F}_2[[x]]$ of the polynomial $\phi(T, i, j)$ under certain initial conditions; the polynomials $\phi(T, i, j)$ and initial conditions are given in Section 3. We will prove that these four matrices, whose components are algebraic by definition, are the limits of $(M_{2n}(x))_n$, $(M_{2n+1}(x))_n$, $(W_{2n}(x))_n$, and $(W_{2n+1}(x))_n$.

Let us explain how the polynomials $\phi(T, i, j)$ and initial conditions are found, and why the solutions exist and are unique. For $0 \leq i, j \leq 1$, the coefficients of the polynomial $\phi(M^e, i, j)$ (resp. $\phi(M^o, i, j)$, $\phi(W^e, i, j)$, and $\phi(W^o, i, j)$) are the Padé-Hermite approximants of type

$$(150, 150, 150, 150, 150)$$

of the vector

$$(1, T^3, T^6, T^9, T^{12}),$$

where $T = M_{12,i,j}$ (resp. $M_{11,i,j}$, $W_{12,i,j}$, and $W_{11,i,j}$), found by the Derksen algorithm. We take the first 8 terms of $M_{12,i,j}$ (resp. $M_{11,i,j}$, $W_{12,i,j}$, and $W_{11,i,j}$) as initial conditions for $\phi(M^e, i, j)$ (resp. $\phi(M^o, i, j)$, $\phi(W^e, i, j)$, and $\phi(W^o, i, j)$). The following fact will be used to ensure that the solution exists and is unique: let $P(x, y) \in \mathbb{F}_2[x, y]$ and for each series $f(x) = \sum_{n=0}^{\infty} a_n x^n \in \mathbb{F}_2[[x]]$ denote the partial sum $\sum_{j=0}^{n-1} a_j x^j$ by $f_n(x)$ for $n \geq 0$. If for some $n \geq 0$ and $a_0, a_1, \dots, a_{n-1} \in \mathbb{F}_2$ $P(x, \sum_{j=0}^{n-1} a_j x^j) = O(x^n)$ and $Q(x, y) := P(x, \sum_{j=0}^{n-1} a_j x^j + x^n y)$ can be written as $x^m \sum_{j=0}^{\infty} q_j(x) y^j$ where $q_j(x)$ are polynomials for $j \geq 0$, $q_1(0) = 1$, and $q_j(0) = 0$ for $j > 1$, then there exists a unique solution $f(x) \in \mathbb{F}_2[[x]]$ of $P(x, f(x)) = 0$ that satisfies the initial condition $f_n(x) = \sum_{j=0}^{n-1} a_j x^j$.

We state two lemmas concerning the four matrices M^e, M^o, W^e, W^o . The first one is about relations between them; the second, about the structure of the each matrix.

Lemma 2.1. *We have*

$$(2.3) \quad M^e = W^o \cdot M^o,$$

$$(2.4) \quad M^o = W^e \cdot M^e,$$

$$(2.5) \quad W^e = M^o \cdot W^o,$$

$$(2.6) \quad W^o = M^e \cdot W^e.$$

Proof. We give the proof of the identity

$$M_{0,0}^e = W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o,$$

the proofs of the others being similar.

First, we compute the minimal polynomials of $W_{0,0}^o M_{0,0}^o$ and $W_{0,1}^o M_{1,0}^o$. We know that

$$P(x, y) = \text{Res}_z (\phi(W^o, 0, 0)(x, z), z^{12} \cdot \phi(M^o, 0, 0)(x, y/z))$$

is an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We use Padé-Hermite approximation to find a candidate for the minimal polynomial of $W_{0,0}^o M_{0,0}^o$, that will be called $\phi_0(x, y)$. To prove that $\phi_0(x, y)$ is indeed the minimal polynomial, it suffices to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and that $Q(x, y) := P(x, y)/\phi_0(x, y)^m$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We verify the first point directly. For the second point, we truncate $W_{0,0}^o M_{0,0}^o$ to order 540 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 540, which proves that $Q(x, y)$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o$. We find the minimal polynomial $\phi_1(x, y)$ of $W_{0,1}^o M_{1,0}^o$ in a similar way.

Now we prove that $\phi(M^e, 0, 0)$ is the minimal polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. We know that

$$S(x, y) = \text{Res}_z (\phi_0(x, z), \phi_1(x, y + z))$$

is an annihilating of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. We verify that $\phi(M^e, 0, 0)$ is an irreducible factor of $S(x, y)$ of multiplicity μ , and that $Q(x, y) := S(x, y)/\phi(M^e, 0, 0)^\mu$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$. To see the last point, we truncate $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$ to order 660 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 660, and therefore $Q(x, y)$ is not an annihilating polynomial of $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$.

Finally, the first 16 terms of $M_{0,0}^e$ and $W_{0,0}^o M_{0,0}^o + W_{0,1}^o M_{1,0}^o$ coincide. As these first terms determine a unique solution of $\phi(M^e, 0, 0)$, we know that the two series are one and the same. $\square$

Define

$$R^e = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \quad \text{and} \quad R^o = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}.$$

Lemma 2.2. *For all integers $k \geq 2$ and $u = 2^{2k-1}$, the following identities hold.*

$$\begin{aligned} M^e[:12u] &= M^e[:6u] + x^u M^e[:5u] + x^{3u} M^e[:3u] + x^{4u} M^e[:2u] + x^u M^e[:6u] \\ &\quad + x^{2u} M^e[:5u] + x^{4u} M^e[:3u] + x^{5u} M^e[:2u] + x^{2u} M^e[:6u] \\ &\quad + x^{3u} M^e[:5u] + x^{5u} M^e[:3u] + x^{6u} M^e[:2u] + x^{7u} M^e[:5u] \\ &\quad + x^{10u} M^e[:2u] + x^{11u} M^e[:u] + (x^{6u} + x^{7u} + x^{8u}) R^e, \end{aligned}$$

$$\begin{aligned}
W^e[:12u] &= W^e[:6u] + x^u W^e[:5u] + x^{3u} W^e[:3u] + x^{4u} W^e[:2u] + x^u W^e[:6u] \\
&\quad + x^{2u} W^e[:5u] + x^{4u} W^e[:3u] + x^{5u} W^e[:2u] + x^{2u} W^e[:6u] \\
&\quad + x^{3u} W^e[:5u] + x^{5u} W^e[:3u] + x^{6u} W^e[:2u] + x^{7u} W^e[:5u] \\
&\quad + x^{10u} W^e[:2u] + x^{11u} W^e[:u] + (x^{6u} + x^{7u} + x^{8u}) R^e.
\end{aligned}$$

For all integers $k \geq 2$ and $u = 2^{2k}$, the following identities hold.

$$\begin{aligned}
M^o[:12u] &= M^o[:6u] + x^u M^o[:5u] + x^{3u} M^o[:3u] + x^{4u} M^o[:2u] + x^u M^o[:6u] \\
&\quad + x^{2u} M^o[:5u] + x^{4u} M^o[:3u] + x^{5u} M^o[:2u] + x^{2u} M^o[:6u] \\
&\quad + x^{3u} M^o[:5u] + x^{5u} M^o[:3u] + x^{6u} M^o[:2u] + x^{7u} M^o[:5u] \\
&\quad + x^{10u} M^o[:2u] + x^{11u} M^o[:u] + (x^{6u} + x^{7u} + x^{8u}) R^o, \\
W^o[:12u] &= W^o[:6u] + x^u W^o[:5u] + x^{3u} W^o[:3u] + x^{4u} W^o[:2u] + x^u W^o[:6u] \\
&\quad + x^{2u} W^o[:5u] + x^{4u} W^o[:3u] + x^{5u} W^o[:2u] + x^{2u} W^o[:6u] \\
&\quad + x^{3u} W^o[:5u] + x^{5u} W^o[:3u] + x^{6u} W^o[:2u] + x^{7u} W^o[:5u] \\
&\quad + x^{10u} W^o[:2u] + x^{11u} W^o[:u] + (x^{6u} + x^{7u} + x^{8u}) R^o.
\end{aligned}$$

Proof. To prove Lemma 2.2 we first construct an automaton for each sequence concerned, and then transform the conditions on infinitely many k 's into finitely many conditions on the states of the automaton. In the following, we will prove that for $T = M_{0,0}^o$, for all integer $k \geq 2$ and $u = 2^{2k}$,

$$\begin{aligned}
T[:12u] &= T[:6u] + x^u T[:5u] + x^{3u} T[:3u] + x^{4u} T[:2u] + x^u T[:6u] + x^{2u} T[:5u] \\
&\quad + x^{4u} T[:3u] + x^{5u} T[:2u] + x^{2u} T[:6u] + x^{3u} T[:5u] + x^{5u} T[:3u] \\
&\quad + x^{6u} T[:2u] + x^{7u} T[:5u] + x^{10u} T[:2u] + x^{11u} T[:u].
\end{aligned}$$

The proof of the other 15 cases are similar. We break down the above identity into 6 parts:

$$\begin{aligned}
0 &= x^{6u} T[:u] + x^{4u} T[2u:3u] + x^{3u} T[3u:4u] + x^u T[5u:6u] + T[6u:7u], \\
0 &= x^{7u} T[:u] + x^{6u} T[u:2u] + x^{5u} T[2u:3u] + x^{3u} T[4u:5u] \\
&\quad + x^{2u} T[5u:6u] + T[7u:8u], \\
0 &= x^{7u} T[u:2u] + T[8u:9u], \\
0 &= x^{7u} T[2u:3u] + T[9u:10u], \\
0 &= x^{10u} T[:u] + x^{7u} T[3u:4u] + T[10u:11u], \\
0 &= x^{11u} T[:u] + x^{10u} T[u:2u] + x^{7u} T[4u:5u] + T[11u:12u],
\end{aligned}$$

which can be rewritten as

$$\begin{aligned}
(2.7) \quad 0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[110w]_2], \\
0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] \\
(2.8) \quad &\quad + T[[111w]_2], \\
(2.9) \quad 0 &= T[[1w]_2] + T[[1000w]_2], \\
(2.10) \quad 0 &= T[[10w]_2] + T[[1001w]_2], \\
(2.11) \quad 0 &= T[[w]_2] + T[[11w]_2] + T[[1010w]_2],
\end{aligned}$$

$$(2.12) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[100w]_2] + T[[1011w]_2],$$

for all binary word w of length $2k$ and $w \neq 0^{2k}$, and

$$(2.13) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[110w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2]$$

$$(2.14) \quad + T[[111w]_2],$$

$$(2.15) \quad 0 = T[[1w]_2] + T[[1000w]_2],$$

$$(2.16) \quad 0 = T[[10w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[100w]_2] + T[[1011w]_2],$$

for $w = 0^{2k}$.

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8176 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

$$E_{2k} = \{A(i, w) : |w| = 2k, w \neq 0^{2k}\}.$$

Identities (2.7) through (2.18) can be written as

$$(2.19) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

$$+ \tau(A(s, 110)),$$

$$(2.20) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100))$$

$$+ \tau(A(s, 101)) + \tau(A(s, 111)),$$

$$(2.21) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 1000)),$$

$$(2.22) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 1010)),$$

$$(2.24) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 1011)),$$

for all $s \in E_{2k}$, and

$$(2.25) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

$$+ \tau(A(s, 110)),$$

$$(2.26) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100))$$

$$+ \tau(A(s, 101)) + \tau(A(s, 111)),$$

$$(2.27) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 1000)),$$

$$(2.28) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 1010)),$$

$$(2.30) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 1011)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{34}), E_{34}) = (A(i, 0^{26}), E_{26})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 17$, which turns out to be true. $\square$

In the following lemma, we express M_{2k} , M_{2k+1} , W_{2k} , and W_{2k+1} in terms of M^e , M^o , W^e , and W^o .

Lemma 2.3. *For all integer $k \geq 2$, and $u = 2^{2k-1}$,*

$$\begin{aligned} M_{2k} &= M^e[:6u] + x^u M^e[:5u] + x^{3u} M^e[:3u] + x^{4u} M^e[:2u] + x^{6u} R^e, \\ W_{2k} &= W^e[:6u] + x^u W^e[:5u] + x^{3u} W^e[:3u] + x^{4u} W^e[:2u] + x^{6u} R^e. \end{aligned}$$

For all integer $k \geq 2$, and $u = 2^{2k}$,

$$\begin{aligned} M_{2k+1} &= M^o[:6u] + x^u M^o[:5u] + x^{3u} M^o[:3u] + x^{4u} M^o[:2u] + x^{6u} R^o, \\ W_{2k+1} &= W^o[:6u] + x^u W^o[:5u] + x^{3u} W^o[:3u] + x^{4u} W^o[:2u] + x^{6u} R^o. \end{aligned}$$

Proof. We call the four identities in Lemma 2.3 also by the name M_{2k} , W_{2k} , M_{2k+1} , and W_{2k+1} . For $n = 2$, the identities can be verified directly. For $n \geq 2$, we claim that

$$\begin{aligned} M_{2k} \wedge W_{2k} &\Rightarrow M_{2k+1} \wedge W_{2k+1}, \\ M_{2k+1} \wedge W_{2k+1} &\Rightarrow M_{2k+2} \wedge W_{2k+2}. \end{aligned}$$

We give the proof of

$$M_{2k} \wedge W_{2k} \Rightarrow M_{2k+1},$$

the other ones being similar. Set $u = 2^{2k}$ and $v = 2^{2k-1}$. By definition and induction hypothesis, the left side of identity M_{2k+1} is equal to

$$(2.31) \quad \begin{aligned} W_{2k} M_{2k} &= (W^e[:6v] + x^v W^e[:5v] + x^{3v} W^e[:3v] + x^{4v} W^e[:2v] + x^{6v} R^e) \times (\\ &M^e[:6v] + x^v M^e[:5v] + x^{3v} M^e[:3v] + x^{4v} M^e[:2v] + x^{6v} R^e); \end{aligned}$$

Call this expression *lhs*. Note that both sides of identity M_{2k+1} have the same term of highest degree $x^{12v} R^o$. Therefore we only need to prove that their difference is $O(x^{12v})$. Using Lemma 2.1 it can be seen that the right side of identity M_{2k+1} is congruent, modulo x^{12v} , to

$$\begin{aligned} W^e[:12v] M^e[:12v] &+ x^{2v} W^e[:10v] M^e[:10v] + x^{6v} W^e[:6v] M^e[:6v] \\ &+ x^{8v} W^e[:4v] M^e[:4v]. \end{aligned}$$

For all $n \leq 12$, replace the occurrences of $W^e[:n \cdot v]$ and $M^e[:n \cdot v]$ in the above expression by the reduction modulo $x^{n \cdot v}$ of the right side of the corresponding identity in Lemma 2.2 and get a new expression, which we call *rhs*. Define

$$\begin{aligned} X &:= x^v, \\ a_n &:= W^e[n \cdot v : (n+1) \cdot v] / X^n, \\ b_n &:= M^e[n \cdot v : (n+1) \cdot v] / X^n, \\ c &:= R^e. \end{aligned}$$

Using the notation introduced above, we can represent the expressions *lhs* (2.31) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{12}, b_1, \dots, b_{12}, c][X]$. Note that it is not a problem that a_j commutes with b_k while W^e does not commute with M^e , because in the expressions concerned, the products of W^e -terms and M^e -terms are always in the same order. We let the computer do the simplification and check that the difference between these two polynomials is indeed $O(X^{12})$, which completes the proof. $\square$

Proof of Theorem 1.1. We prove the theorem for $\text{CF}(a, b)$; for $\text{CF}(b, a)$, the proof is similar. By Lemma 2.3, we have For all $0 \leq j, k \leq 1$,

$$\lim_{n \rightarrow \infty} M_{2n, j, k} = M_{j, k}^e,$$

$$\begin{aligned}\lim_{n \rightarrow \infty} M_{2n+1,j,k} &= M_{j,k}^o, \\ \lim_{n \rightarrow \infty} W_{2n,j,k} &= W_{j,k}^e, \\ \lim_{n \rightarrow \infty} W_{2n+1,j,k} &= W_{j,k}^o.\end{aligned}$$

Let $z = 1/x$. By the convergence theorem and identity (2.2),

$$\text{CF}(a, b) = \frac{M_{0,1}^e(x)}{M_{0,0}^e(x)}.$$

By definition, $\phi(M^e, 0, 1)$ and $\phi(M^e, 0, 0)$ are minimal polynomials of $M_{0,1}^e$ and $M_{0,0}^e$. Therefore

$$P(x, y) = \text{Res}_t (\phi(M^e, 0, 1)(x, t), y^{12}\phi(M^e, 0, 1)(x, t/y))$$

is an annihilating polynomial of $f(x) = M_{0,1}^e/M_{0,0}^e$.

Define

$$Q(x, y) = q_4(x)y^4 + q_3(x)y^3 + q_2(x)y^2 + q_1(x)y + q_0(x),$$

where

$$\begin{aligned}q_0(x) &= x^{24} + x^{23} + x^{22} + x^{20} + x^{19} + x^{17} + x^{16} + x^{15} + x^{13} + x^{11} + x^{10} + x^7 \\ &\quad + x^6, \\ q_1(x) &= x^{23} + x^{21} + x^{18} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6 + x^5 \\ &\quad + x^3 + x^2, \\ q_2(x) &= x^{22} + x^{20} + x^{14} + x^8 + x^6 + 1, \\ q_3(x) &= x^{23} + x^{21} + x^{18} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^6 + x^5 \\ &\quad + x^3 + x^2, \\ q_4(x) &= x^{23} + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^7 + x^4.\end{aligned}$$

The polynomial $Q(x, y)$ is the candidate for the minimal polynomial of $f(x)$ found by Padé-Hermite approximation. To prove that it is indeed the minimal polynomial of $f(x)$, we only need to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and $R(x, y) := P(x, y)/Q(x, y)^m$ is not an annihilating polynomial of $f(x)$. We verify the first point directly. For the second point, we find that when we truncate $f(x)$ to order 186, and substitute it for y in $R(z, y)$, we get a series with valuation smaller than 186, which proves that $R(z, y)$ is not an annihilating polynomial of $f(x)$. Finally, $z^{12}Q(1/z, y)$ is the minimal polynomial of $\text{CF}(a, b) = f(1/z)$. $\square$

3. ANNEXE

All 16 polynomials are of the form

$$p_0(x) + p_3(x)y^3 + p_6(x)y^6 + p_9(x)y^9 + p_{12}(x)y^{12}.$$

The coefficients $p_j(x)$ and the 16 initial terms to determine the solutions uniquely are given below.

For $\phi(M^e, 0, 0)$:

$$\begin{aligned}p_0(x) &= x^{132} + x^{130} + x^{126} + x^{124} + x^{118} + x^{116} + x^{110} + x^{108} + x^{106} + x^{104} \\ &\quad + x^{102} + x^{96} + x^{94} + x^{90} + x^{88} + x^{82} + x^{78} + x^{74} + x^{72} + x^{62} + x^{60} \\ &\quad + x^{58} + x^{56} + x^{54} + x^{52} + x^{48} + x^{44} + x^{34} + x^{30} + x^{26} + x^{24},\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{128} + x^{126} + x^{124} + x^{118} + x^{116} + x^{114} + x^{112} + x^{108} + x^{104} + x^{102} \\
&\quad + x^{98} + x^{94} + x^{92} + x^{90} + x^{88} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{66} \\
&\quad + x^{60} + x^{56} + x^{54} + x^{52} + x^{50} + x^{48} + x^{36} + x^{32} + x^{30} + x^{26} + x^{24}, \\
p_6(x) &= x^{122} + x^{120} + x^{114} + x^{112} + x^{110} + x^{108} + x^{104} + x^{102} + x^{98} + x^{96} \\
&\quad + x^{92} + x^{90} + x^{84} + x^{66} + x^{64} + x^{60} + x^{54} + x^{52} + x^{48} + x^{46} + x^{42} \\
&\quad + x^{40} + x^{36} + x^{34} + x^{28} + x^4 + x^2 + 1, \\
p_9(x) &= x^{130} + x^{122} + x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{100} \\
&\quad + x^{96} + x^{92} + x^{86} + x^{82} + x^{74} + x^{72} + x^{68} + x^{62} + x^{60} + x^{54} + x^{48} \\
&\quad + x^{42} + x^{40} + x^{34} + x^{30} + x^{28} + x^{20} + x^{18} + x^{16} + x^4, \\
p_{12}(x) &= x^{130} + x^{128} + x^{122} + x^{120} + x^{114} + x^{112} + x^{106} + x^{104} + x^{90} + x^{88} \\
&\quad + x^{74} + x^{72} + x^{58} + x^{56} + x^{42} + x^{40} + x^{26} + x^{24} + x^{18} + x^{16} + x^2 + 1,
\end{aligned}$$

and the initial terms are $[1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]$.

For $\phi(M^e, 0, 1)$:

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} \\
&\quad + x^{114} + x^{112} + x^{111} + x^{110} + x^{108} + x^{103} + x^{102} + x^{101} + x^{97} + x^{96} \\
&\quad + x^{95} + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{69} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{59} + x^{57} + x^{55} + x^{53} + x^{52} \\
&\quad + x^{49} + x^{48} + x^{45} + x^{43} + x^{37} + x^{36} + x^{30}, \\
p_3(x) &= x^{124} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{100} + x^{98} + x^{96} + x^{94} \\
&\quad + x^{90} + x^{86} + x^{82} + x^{80} + x^{74} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} \\
&\quad + x^{46} + x^{42} + x^{40} + x^{36} + x^{34} + x^{28} + x^{26} + x^{24} + x^{22} + x^{20} + x^{18}, \\
p_6(x) &= x^{123} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} + x^{109} + x^{108} \\
&\quad + x^{105} + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{88} + x^{85} + x^{84} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{75} + x^{73} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} \\
&\quad + x^{55} + x^{53} + x^{51} + x^{50} + x^{47} + x^{42} + x^{40} + x^{39} + x^{36} + x^{35} + x^{33} \\
&\quad + x^{32} + x^{29} + x^{27} + x^{24} + x^{20} + x^{18} + x^{14} + x^{13} + x^{12}, \\
p_9(x) &= x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{106} + x^{100} + x^{98} + x^{94} \\
&\quad + x^{92} + x^{90} + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} + x^{62} + x^{60} + x^{58} + x^{56} \\
&\quad + x^{52} + x^{46} + x^{44} + x^{36} + x^{30} + x^{26} + x^{20} + x^{12} + x^6, \\
p_{12}(x) &= x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{101} + x^{99} \\
&\quad + x^{96} + x^{95} + x^{93} + x^{92} + x^{85} + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{69} \\
&\quad + x^{67} + x^{64} + x^{63} + x^{61} + x^{60} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} + x^{44} \\
&\quad + x^{37} + x^{35} + x^{32} + x^{31} + x^{29} + x^{28} + x^{21} + x^{19} + x^{16} + x^{15} + x^{13} \\
&\quad + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 1, 1, 1, 1, 1, 1, 0, 1, 0, 0, 1, 0, 1, 1]$.

For $\phi(M^e, 1, 0)$:

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} \\
&\quad + x^{114} + x^{112} + x^{111} + x^{110} + x^{108} + x^{103} + x^{102} + x^{101} + x^{97} + x^{96} \\
&\quad + x^{95} + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{69} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{59} + x^{57} + x^{55} + x^{53} + x^{52} \\
&\quad + x^{49} + x^{48} + x^{45} + x^{43} + x^{37} + x^{36} + x^{30}, \\
p_3(x) &= x^{124} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{100} + x^{98} + x^{96} + x^{94} \\
&\quad + x^{90} + x^{86} + x^{82} + x^{80} + x^{74} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} \\
&\quad + x^{46} + x^{42} + x^{40} + x^{36} + x^{34} + x^{28} + x^{26} + x^{24} + x^{22} + x^{20} + x^{18}, \\
p_6(x) &= x^{123} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} + x^{109} + x^{108} \\
&\quad + x^{105} + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{88} + x^{85} + x^{84} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{75} + x^{73} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} \\
&\quad + x^{55} + x^{53} + x^{51} + x^{50} + x^{47} + x^{42} + x^{40} + x^{39} + x^{36} + x^{35} + x^{33} \\
&\quad + x^{32} + x^{29} + x^{27} + x^{24} + x^{20} + x^{18} + x^{14} + x^{13} + x^{12}, \\
p_9(x) &= x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{106} + x^{100} + x^{98} + x^{94} \\
&\quad + x^{92} + x^{90} + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} + x^{62} + x^{60} + x^{58} + x^{56} \\
&\quad + x^{52} + x^{46} + x^{44} + x^{36} + x^{30} + x^{26} + x^{20} + x^{12} + x^6, \\
p_{12}(x) &= x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{101} + x^{99} \\
&\quad + x^{96} + x^{95} + x^{93} + x^{92} + x^{85} + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{69} \\
&\quad + x^{67} + x^{64} + x^{63} + x^{61} + x^{60} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} + x^{44} \\
&\quad + x^{37} + x^{35} + x^{32} + x^{31} + x^{29} + x^{28} + x^{21} + x^{19} + x^{16} + x^{15} + x^{13} \\
&\quad + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 1, 1, 1, 1, 1, 1, 0, 1, 0, 0, 1, 0, 1, 1]$.

For $\phi(M^e, 1, 1)$:

$$\begin{aligned}
p_0(x) &= x^{120} + x^{116} + x^{114} + x^{108} + x^{102} + x^{98} + x^{90} + x^{88} + x^{86} + x^{84} + x^{80} \\
&\quad + x^{74} + x^{70} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{54} + x^{52} + x^{48} \\
&\quad + x^{46} + x^{44} + x^{40} + x^{38} + x^{36}, \\
p_3(x) &= x^{114} + x^{112} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{82} + x^{66} \\
&\quad + x^{64} + x^{62} + x^{60} + x^{54} + x^{52} + x^{50} + x^{34} + x^{32} + x^{30} + x^{28} + x^{24} \\
&\quad + x^{22} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_6(x) &= x^{114} + x^{104} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} + x^{88} + x^{84} + x^{82} + x^{80} \\
&\quad + x^{76} + x^{68} + x^{66} + x^{64} + x^{62} + x^{54} + x^{52} + x^{50} + x^{40} + x^{34} + x^{30} \\
&\quad + x^{22} + x^{18} + x^{16} + x^{14} + x^4 + 1, \\
p_9(x) &= x^{112} + x^{102} + x^{96} + x^{90} + x^{80} + x^{76} + x^{74} + x^{72} + x^{64} + x^{62} + x^{60} \\
&\quad + x^{56} + x^{46} + x^{40} + x^{34} + x^{24} + x^{20} + x^{18} + x^{16} + x^8 + x^6 + x^4,
\end{aligned}$$

$$p_{12}(x) = x^{112} + x^{110} + x^{102} + x^{94} + x^{86} + x^{78} + x^{70} + x^{62} + x^{54} + x^{46} + x^{38} \\ + x^{30} + x^{22} + x^{14} + x^6 + 1,$$

and the initial terms are $[0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0]$.

For $\phi(W^e, 0, 0)$:

$$p_0(x) = x^{120} + x^{110} + x^{108} + x^{104} + x^{102} + x^{96} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} \\ + x^{80} + x^{74} + x^{66} + x^{64} + x^{62} + x^{60} + x^{52} + x^{48} + x^{46} + x^{44} + x^{40} \\ + x^{38} + x^{36} + x^{24},$$

$$p_3(x) = x^{114} + x^{112} + x^{110} + x^{108} + x^{104} + x^{94} + x^{92} + x^{82} + x^{74} + x^{72} + x^{70} \\ + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} + x^{34} \\ + x^{32} + x^{30} + x^{28} + x^{24} + x^{22} + x^{20},$$

$$p_6(x) = x^{114} + x^{110} + x^{106} + x^{104} + x^{100} + x^{96} + x^{94} + x^{90} + x^{86} + x^{82} + x^{80} \\ + x^{78} + x^{72} + x^{68} + x^{66} + x^{62} + x^{52} + x^{46} + x^{42} + x^{36} + x^{32} + x^{28} \\ + x^{20} + x^{18} + x^{14} + x^8 + x^4 + 1,$$

$$p_9(x) = x^{112} + x^{102} + x^{96} + x^{90} + x^{80} + x^{76} + x^{74} + x^{72} + x^{64} + x^{62} + x^{60} \\ + x^{56} + x^{46} + x^{40} + x^{34} + x^{24} + x^{20} + x^{18} + x^{16} + x^8 + x^6 + x^4,$$

$$p_{12}(x) = x^{112} + x^{110} + x^{102} + x^{94} + x^{86} + x^{78} + x^{70} + x^{62} + x^{54} + x^{46} + x^{38} \\ + x^{30} + x^{22} + x^{14} + x^6 + 1,$$

and the initial terms are $[1, 0, 0, 0, 1, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1, 0]$.

For $\phi(W^e, 0, 1)$:

$$p_0(x) = x^{126} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} \\ + x^{109} + x^{108} + x^{107} + x^{106} + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} \\ + x^{94} + x^{88} + x^{85} + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{71} + x^{67} \\ + x^{66} + x^{65} + x^{64} + x^{62} + x^{59} + x^{58} + x^{57} + x^{54} + x^{53} + x^{51} + x^{47} \\ + x^{45} + x^{44} + x^{41} + x^{40} + x^{39} + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30},$$

$$p_3(x) = x^{124} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{100} + x^{98} + x^{96} + x^{94} \\ + x^{90} + x^{86} + x^{82} + x^{80} + x^{74} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} \\ + x^{46} + x^{42} + x^{40} + x^{36} + x^{34} + x^{28} + x^{26} + x^{24} + x^{22} + x^{20} + x^{18},$$

$$p_6(x) = x^{123} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} + x^{109} + x^{108} \\ + x^{105} + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{88} + x^{85} + x^{84} \\ + x^{82} + x^{81} + x^{80} + x^{75} + x^{73} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} \\ + x^{55} + x^{53} + x^{51} + x^{50} + x^{47} + x^{42} + x^{40} + x^{39} + x^{36} + x^{35} + x^{33} \\ + x^{32} + x^{29} + x^{27} + x^{24} + x^{20} + x^{18} + x^{14} + x^{13} + x^{12},$$

$$p_9(x) = x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{106} + x^{100} + x^{98} + x^{94} \\ + x^{92} + x^{90} + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} + x^{62} + x^{60} + x^{58} + x^{56} \\ + x^{52} + x^{46} + x^{44} + x^{36} + x^{30} + x^{26} + x^{20} + x^{12} + x^6,$$

$$\begin{aligned}
p_{12}(x) = & x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{101} + x^{99} \\
& + x^{96} + x^{95} + x^{93} + x^{92} + x^{85} + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{69} \\
& + x^{67} + x^{64} + x^{63} + x^{61} + x^{60} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} + x^{44} \\
& + x^{37} + x^{35} + x^{32} + x^{31} + x^{29} + x^{28} + x^{21} + x^{19} + x^{16} + x^{15} + x^{13} \\
& + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 1, 0, 1, 1, 1, 0]$.

For $\phi(W^e, 1, 0)$:

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} \\
& + x^{109} + x^{108} + x^{107} + x^{106} + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} \\
& + x^{94} + x^{88} + x^{85} + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{71} + x^{67} \\
& + x^{66} + x^{65} + x^{64} + x^{62} + x^{59} + x^{58} + x^{57} + x^{54} + x^{53} + x^{51} + x^{47} \\
& + x^{45} + x^{44} + x^{41} + x^{40} + x^{39} + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30}, \\
p_3(x) = & x^{124} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{100} + x^{98} + x^{96} + x^{94} \\
& + x^{90} + x^{86} + x^{82} + x^{80} + x^{74} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} \\
& + x^{46} + x^{42} + x^{40} + x^{36} + x^{34} + x^{28} + x^{26} + x^{24} + x^{22} + x^{20} + x^{18}, \\
p_6(x) = & x^{123} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} + x^{109} + x^{108} \\
& + x^{105} + x^{103} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{90} + x^{88} + x^{85} + x^{84} \\
& + x^{82} + x^{81} + x^{80} + x^{75} + x^{73} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} \\
& + x^{55} + x^{53} + x^{51} + x^{50} + x^{47} + x^{42} + x^{40} + x^{39} + x^{36} + x^{35} + x^{33} \\
& + x^{32} + x^{29} + x^{27} + x^{24} + x^{20} + x^{18} + x^{14} + x^{13} + x^{12}, \\
p_9(x) = & x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{106} + x^{100} + x^{98} + x^{94} \\
& + x^{92} + x^{90} + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} + x^{62} + x^{60} + x^{58} + x^{56} \\
& + x^{52} + x^{46} + x^{44} + x^{36} + x^{30} + x^{26} + x^{20} + x^{12} + x^6, \\
p_{12}(x) = & x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{101} + x^{99} \\
& + x^{96} + x^{95} + x^{93} + x^{92} + x^{85} + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{69} \\
& + x^{67} + x^{64} + x^{63} + x^{61} + x^{60} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} + x^{44} \\
& + x^{37} + x^{35} + x^{32} + x^{31} + x^{29} + x^{28} + x^{21} + x^{19} + x^{16} + x^{15} + x^{13} \\
& + x^{12} + x^9 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 1, 0, 1, 1, 1, 0]$.

For $\phi(W^e, 1, 1)$:

$$\begin{aligned}
p_0(x) = & x^{132} + x^{126} + x^{118} + x^{114} + x^{112} + x^{110} + x^{102} + x^{96} + x^{92} + x^{90} \\
& + x^{88} + x^{84} + x^{82} + x^{80} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{56} + x^{54} \\
& + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42} + x^{40} + x^{36}, \\
p_3(x) = & x^{124} + x^{112} + x^{110} + x^{108} + x^{106} + x^{102} + x^{96} + x^{90} + x^{84} + x^{82} \\
& + x^{76} + x^{74} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} + x^{40} + x^{34} + x^{28} + x^{26}
\end{aligned}$$

$$\begin{aligned}
& + x^{20} + x^{18} + x^{12}, \\
p_6(x) &= x^{128} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} + x^{110} + x^{104} + x^{102} \\
& + x^{98} + x^{96} + x^{94} + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} + x^{74} + x^{70} \\
& + x^{64} + x^{62} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} + x^{46} + x^{44} + x^{42} + x^{38} \\
& + x^{36} + x^{32} + x^{30} + x^{26} + x^{22} + x^{18} + x^{14} + x^{10} + x^8 + x^4 + x^2 + 1, \\
p_9(x) &= x^{130} + x^{122} + x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{100} \\
& + x^{96} + x^{92} + x^{86} + x^{82} + x^{74} + x^{72} + x^{68} + x^{62} + x^{60} + x^{54} + x^{48} \\
& + x^{42} + x^{40} + x^{34} + x^{30} + x^{28} + x^{20} + x^{18} + x^{16} + x^4, \\
p_{12}(x) &= x^{130} + x^{128} + x^{122} + x^{120} + x^{114} + x^{112} + x^{106} + x^{104} + x^{90} + x^{88} \\
& + x^{74} + x^{72} + x^{58} + x^{56} + x^{42} + x^{40} + x^{26} + x^{24} + x^{18} + x^{16} + x^2 + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0]$.

For $\phi(M^o, 0, 0)$:

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{122} + x^{121} + x^{118} + x^{114} + x^{113} + x^{109} + x^{107} \\
& + x^{106} + x^{105} + x^{103} + x^{101} + x^{100} + x^{94} + x^{93} + x^{92} + x^{91} + x^{89} \\
& + x^{88} + x^{86} + x^{83} + x^{82} + x^{80} + x^{73} + x^{70} + x^{69} + x^{66} + x^{60} + x^{57} \\
& + x^{56} + x^{55} + x^{54} + x^{52} + x^{51} + x^{48} + x^{46} + x^{44} + x^{43} + x^{40} + x^{38} \\
& + x^{37} + x^{34} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24}, \\
p_3(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{116} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{95} + x^{94} + x^{93} \\
& + x^{92} + x^{91} + x^{87} + x^{85} + x^{83} + x^{81} + x^{78} + x^{77} + x^{73} + x^{72} + x^{71} \\
& + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{59} + x^{55} + x^{49} + x^{47} + x^{46} \\
& + x^{42} + x^{38} + x^{28} + x^{25} + x^{23} + x^{22} + x^{20} + x^{19} + x^{17} + x^{16}, \\
p_6(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} \\
& + x^{107} + x^{104} + x^{103} + x^{102} + x^{98} + x^{96} + x^{94} + x^{93} + x^{87} + x^{86} \\
& + x^{85} + x^{81} + x^{80} + x^{74} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} \\
& + x^{63} + x^{60} + x^{58} + x^{57} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} \\
& + x^{44} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{33} + x^{31} + x^{30} + x^{29} \\
& + x^{28} + x^{24} + x^{20} + x^{18} + x^{17} + x^{15} + x^{14} + x^{12} + x^{11} + x^8 + x^7 + x^4 \\
& + x^3 + x + 1, \\
p_9(x) &= x^{125} + x^{123} + x^{121} + x^{120} + x^{117} + x^{115} + x^{113} + x^{112} + x^{101} + x^{99} \\
& + x^{97} + x^{96} + x^{85} + x^{83} + x^{81} + x^{80} + x^{69} + x^{67} + x^{65} + x^{64} + x^{53} \\
& + x^{51} + x^{49} + x^{48} + x^{37} + x^{35} + x^{33} + x^{32} + x^{21} + x^{19} + x^{17} + x^{16} \\
& + x^{13} + x^{11} + x^9 + x^8, \\
p_{12}(x) &= x^{125} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{97} + x^{95} + x^{93} + x^{92} + x^{81} + x^{79} + x^{77} + x^{76} + x^{65} + x^{63} + x^{61}
\end{aligned}$$

$$\begin{aligned}
& + x^{60} + x^{49} + x^{47} + x^{45} + x^{44} + x^{33} + x^{31} + x^{29} + x^{28} + x^{17} + x^{15} \\
& + x^{12} + x^{11} + x^8 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

and the initial terms are $[1, 0, 0, 0, 1, 0, 0, 1, 1, 0, 1, 0, 0, 1, 0, 1]$.

For $\phi(M^o, 0, 1)$:

$$\begin{aligned}
p_0(x) &= x^{128} + x^{125} + x^{124} + x^{118} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} + x^{105} \\
&+ x^{104} + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} \\
&+ x^{91} + x^{87} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{68} \\
&+ x^{62} + x^{61} + x^{60} + x^{59} + x^{55} + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{41} \\
&+ x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30}, \\
p_3(x) &= x^{121} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{108} + x^{104} + x^{103} + x^{102} \\
&+ x^{99} + x^{97} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{85} + x^{84} + x^{82} + x^{80} \\
&+ x^{79} + x^{76} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} \\
&+ x^{63} + x^{62} + x^{59} + x^{57} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{45} + x^{44} \\
&+ x^{42} + x^{40} + x^{39} + x^{36} + x^{32} + x^{31} + x^{30} + x^{27} + x^{25} + x^{22} + x^{21} \\
&+ x^{19} + x^{18}, \\
p_6(x) &= x^{122} + x^{114} + x^{112} + x^{108} + x^{104} + x^{96} + x^{94} + x^{92} + x^{90} + x^{86} + x^{82} \\
&+ x^{80} + x^{74} + x^{64} + x^{62} + x^{60} + x^{54} + x^{50} + x^{46} + x^{44} + x^{42} + x^{32} \\
&+ x^{28} + x^{22} + x^{20} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{123} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{111} + x^{106} + x^{104} + x^{100} \\
&+ x^{99} + x^{98} + x^{95} + x^{90} + x^{88} + x^{84} + x^{83} + x^{82} + x^{79} + x^{74} + x^{72} \\
&+ x^{68} + x^{67} + x^{66} + x^{63} + x^{58} + x^{56} + x^{52} + x^{51} + x^{50} + x^{47} + x^{42} \\
&+ x^{40} + x^{36} + x^{35} + x^{34} + x^{31} + x^{26} + x^{24} + x^{20} + x^{19} + x^{18} + x^{15} \\
&+ x^{11} + x^{10} + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{124} + x^{108} + x^{96} + x^{92} + x^{80} + x^{76} + x^{64} + x^{60} + x^{48} + x^{44} + x^{32} \\
&+ x^{28} + x^{16} + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 0, 0, 0, 0]$.

For $\phi(M^o, 1, 0)$:

$$\begin{aligned}
p_0(x) &= x^{134} + x^{133} + x^{132} + x^{131} + x^{128} + x^{127} + x^{126} + x^{122} + x^{113} + x^{112} \\
&+ x^{110} + x^{104} + x^{103} + x^{99} + x^{96} + x^{95} + x^{94} + x^{93} + x^{90} + x^{89} + x^{88} \\
&+ x^{86} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} + x^{75} + x^{74} + x^{72} + x^{71} + x^{69} \\
&+ x^{67} + x^{66} + x^{65} + x^{61} + x^{60} + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} \\
&+ x^{51} + x^{49} + x^{47} + x^{45} + x^{43} + x^{42} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} \\
&+ x^{31} + x^{30}, \\
p_3(x) &= x^{133} + x^{129} + x^{128} + x^{126} + x^{124} + x^{123} + x^{120} + x^{117} + x^{116} + x^{115} \\
&+ x^{114} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{105} + x^{104} + x^{101}
\end{aligned}$$

$$\begin{aligned}
& + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{88} + x^{84} + x^{83} + x^{82} \\
& + x^{81} + x^{79} + x^{76} + x^{72} + x^{70} + x^{66} + x^{65} + x^{64} + x^{61} + x^{57} + x^{56} \\
& + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{48} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} \\
& + x^{39} + x^{38} + x^{37} + x^{35} + x^{33} + x^{32} + x^{23} + x^{21} + x^{19} + x^{18}, \\
p_6(x) &= x^{134} + x^{126} + x^{124} + x^{120} + x^{118} + x^{116} + x^{114} + x^{106} + x^{104} + x^{102} \\
& + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} \\
& + x^{76} + x^{74} + x^{72} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{44} + x^{42} \\
& + x^{36} + x^{34} + x^{28} + x^{26} + x^{20} + x^{18} + x^{14} + x^{12}, \\
p_9(x) &= x^{135} + x^{131} + x^{130} + x^{128} + x^{127} + x^{126} + x^{123} + x^{119} + x^{118} + x^{116} \\
& + x^{114} + x^{110} + x^{108} + x^{107} + x^{104} + x^{100} + x^{98} + x^{94} + x^{92} + x^{91} \\
& + x^{88} + x^{84} + x^{82} + x^{78} + x^{76} + x^{75} + x^{72} + x^{68} + x^{66} + x^{62} + x^{60} \\
& + x^{59} + x^{56} + x^{52} + x^{50} + x^{46} + x^{44} + x^{43} + x^{40} + x^{36} + x^{34} + x^{30} \\
& + x^{28} + x^{27} + x^{24} + x^{23} + x^{20} + x^{19} + x^{16} + x^{15} + x^{12} + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{136} + x^{116} + x^{112} + x^{104} + x^{88} + x^{72} + x^{56} + x^{40} + x^8 + x^4 + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1, 0]$.

For $\phi(M^o, 1, 1)$:

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{121} + x^{119} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} \\
& + x^{105} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{93} + x^{92} \\
& + x^{88} + x^{86} + x^{84} + x^{83} + x^{82} + x^{78} + x^{77} + x^{76} + x^{75} + x^{70} + x^{69} \\
& + x^{68} + x^{62} + x^{61} + x^{59} + x^{56} + x^{54} + x^{53} + x^{51} + x^{45} + x^{44} + x^{43} \\
& + x^{42} + x^{37} + x^{36}, \\
p_3(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{113} + x^{111} \\
& + x^{109} + x^{104} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{92} + x^{91} + x^{89} \\
& + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{79} + x^{78} + x^{77} + x^{76} + x^{71} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{57} + x^{54} + x^{53} \\
& + x^{48} + x^{47} + x^{45} + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{36} + x^{35} + x^{33} \\
& + x^{32} + x^{28} + x^{27} + x^{21} + x^{20}, \\
p_6(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} + x^{113} \\
& + x^{109} + x^{108} + x^{107} + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} \\
& + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} \\
& + x^{77} + x^{74} + x^{73} + x^{72} + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{61} + x^{58} \\
& + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{41} + x^{39} + x^{38} \\
& + x^{33} + x^{31} + x^{30} + x^{28} + x^{27} + x^{25} + x^{23} + x^{21} + x^{20} + x^{17} + x^{15} \\
& + x^9 + x^7 + x^4 + x^3 + x + 1, \\
p_9(x) &= x^{125} + x^{123} + x^{121} + x^{120} + x^{117} + x^{115} + x^{113} + x^{112} + x^{101} + x^{99}
\end{aligned}$$

$$\begin{aligned}
& + x^{97} + x^{96} + x^{85} + x^{83} + x^{81} + x^{80} + x^{69} + x^{67} + x^{65} + x^{64} + x^{53} \\
& + x^{51} + x^{49} + x^{48} + x^{37} + x^{35} + x^{33} + x^{32} + x^{21} + x^{19} + x^{17} + x^{16} \\
& + x^{13} + x^{11} + x^9 + x^8, \\
p_{12}(x) = & x^{125} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{97} + x^{95} + x^{93} + x^{92} + x^{81} + x^{79} + x^{77} + x^{76} + x^{65} + x^{63} + x^{61} \\
& + x^{60} + x^{49} + x^{47} + x^{45} + x^{44} + x^{33} + x^{31} + x^{29} + x^{28} + x^{17} + x^{15} \\
& + x^{12} + x^{11} + x^8 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 1, 1, 0, 1]$.

For $\phi(W^o, 0, 0)$:

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{123} + x^{122} + x^{121} + x^{118} + x^{114} + x^{113} + x^{109} + x^{107} \\
& + x^{106} + x^{105} + x^{103} + x^{101} + x^{100} + x^{94} + x^{93} + x^{92} + x^{91} + x^{89} \\
& + x^{88} + x^{86} + x^{83} + x^{82} + x^{80} + x^{73} + x^{70} + x^{69} + x^{66} + x^{60} + x^{57} \\
& + x^{56} + x^{55} + x^{54} + x^{52} + x^{51} + x^{48} + x^{46} + x^{44} + x^{43} + x^{40} + x^{38} \\
& + x^{37} + x^{34} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24}, \\
p_3(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{116} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{95} + x^{94} + x^{93} \\
& + x^{92} + x^{91} + x^{87} + x^{85} + x^{83} + x^{81} + x^{78} + x^{77} + x^{73} + x^{72} + x^{71} \\
& + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{59} + x^{55} + x^{49} + x^{47} + x^{46} \\
& + x^{42} + x^{38} + x^{28} + x^{25} + x^{23} + x^{22} + x^{20} + x^{19} + x^{17} + x^{16}, \\
p_6(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} \\
& + x^{107} + x^{104} + x^{103} + x^{102} + x^{98} + x^{96} + x^{94} + x^{93} + x^{87} + x^{86} \\
& + x^{85} + x^{81} + x^{80} + x^{74} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} \\
& + x^{63} + x^{60} + x^{58} + x^{57} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} \\
& + x^{44} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{33} + x^{31} + x^{30} + x^{29} \\
& + x^{28} + x^{24} + x^{20} + x^{18} + x^{17} + x^{15} + x^{14} + x^{12} + x^{11} + x^8 + x^7 + x^4 \\
& + x^3 + x + 1, \\
p_9(x) = & x^{125} + x^{123} + x^{121} + x^{120} + x^{117} + x^{115} + x^{113} + x^{112} + x^{101} + x^{99} \\
& + x^{97} + x^{96} + x^{85} + x^{83} + x^{81} + x^{80} + x^{69} + x^{67} + x^{65} + x^{64} + x^{53} \\
& + x^{51} + x^{49} + x^{48} + x^{37} + x^{35} + x^{33} + x^{32} + x^{21} + x^{19} + x^{17} + x^{16} \\
& + x^{13} + x^{11} + x^9 + x^8, \\
p_{12}(x) = & x^{125} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{97} + x^{95} + x^{93} + x^{92} + x^{81} + x^{79} + x^{77} + x^{76} + x^{65} + x^{63} + x^{61} \\
& + x^{60} + x^{49} + x^{47} + x^{45} + x^{44} + x^{33} + x^{31} + x^{29} + x^{28} + x^{17} + x^{15} \\
& + x^{12} + x^{11} + x^8 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

and the initial terms are $[1, 0, 0, 0, 1, 0, 0, 1, 1, 0, 1, 0, 0, 1, 0, 1]$.

For $\phi(W^o, 0, 1)$:

$$\begin{aligned}
p_0(x) &= x^{134} + x^{133} + x^{132} + x^{131} + x^{128} + x^{127} + x^{126} + x^{122} + x^{113} + x^{112} \\
&\quad + x^{110} + x^{104} + x^{103} + x^{99} + x^{96} + x^{95} + x^{94} + x^{93} + x^{90} + x^{89} + x^{88} \\
&\quad + x^{86} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} + x^{75} + x^{74} + x^{72} + x^{71} + x^{69} \\
&\quad + x^{67} + x^{66} + x^{65} + x^{61} + x^{60} + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} \\
&\quad + x^{51} + x^{49} + x^{47} + x^{45} + x^{43} + x^{42} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} \\
&\quad + x^{31} + x^{30}, \\
p_3(x) &= x^{133} + x^{129} + x^{128} + x^{126} + x^{124} + x^{123} + x^{120} + x^{117} + x^{116} + x^{115} \\
&\quad + x^{114} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{105} + x^{104} + x^{101} \\
&\quad + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{88} + x^{84} + x^{83} + x^{82} \\
&\quad + x^{81} + x^{79} + x^{76} + x^{72} + x^{70} + x^{66} + x^{65} + x^{64} + x^{61} + x^{57} + x^{56} \\
&\quad + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{48} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} \\
&\quad + x^{39} + x^{38} + x^{37} + x^{35} + x^{33} + x^{32} + x^{23} + x^{21} + x^{19} + x^{18}, \\
p_6(x) &= x^{134} + x^{126} + x^{124} + x^{120} + x^{118} + x^{116} + x^{114} + x^{106} + x^{104} + x^{102} \\
&\quad + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} \\
&\quad + x^{76} + x^{74} + x^{72} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{44} + x^{42} \\
&\quad + x^{36} + x^{34} + x^{28} + x^{26} + x^{20} + x^{18} + x^{14} + x^{12}, \\
p_9(x) &= x^{135} + x^{131} + x^{130} + x^{128} + x^{127} + x^{126} + x^{123} + x^{119} + x^{118} + x^{116} \\
&\quad + x^{114} + x^{110} + x^{108} + x^{107} + x^{104} + x^{100} + x^{98} + x^{94} + x^{92} + x^{91} \\
&\quad + x^{88} + x^{84} + x^{82} + x^{78} + x^{76} + x^{75} + x^{72} + x^{68} + x^{66} + x^{62} + x^{60} \\
&\quad + x^{59} + x^{56} + x^{52} + x^{50} + x^{46} + x^{44} + x^{43} + x^{40} + x^{36} + x^{34} + x^{30} \\
&\quad + x^{28} + x^{27} + x^{24} + x^{23} + x^{20} + x^{19} + x^{16} + x^{15} + x^{12} + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{136} + x^{116} + x^{112} + x^{104} + x^{88} + x^{72} + x^{56} + x^{40} + x^8 + x^4 + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1, 0]$.

For $\phi(W^o, 1, 0)$:

$$\begin{aligned}
p_0(x) &= x^{128} + x^{125} + x^{124} + x^{118} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} + x^{105} \\
&\quad + x^{104} + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} \\
&\quad + x^{91} + x^{87} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{68} \\
&\quad + x^{62} + x^{61} + x^{60} + x^{59} + x^{55} + x^{51} + x^{50} + x^{49} + x^{48} + x^{45} + x^{41} \\
&\quad + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30}, \\
p_3(x) &= x^{121} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{108} + x^{104} + x^{103} + x^{102} \\
&\quad + x^{99} + x^{97} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{85} + x^{84} + x^{82} + x^{80} \\
&\quad + x^{79} + x^{76} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} \\
&\quad + x^{63} + x^{62} + x^{59} + x^{57} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{45} + x^{44} \\
&\quad + x^{42} + x^{40} + x^{39} + x^{36} + x^{32} + x^{31} + x^{30} + x^{27} + x^{25} + x^{22} + x^{21}
\end{aligned}$$

$$\begin{aligned}
& + x^{19} + x^{18}, \\
p_6(x) &= x^{122} + x^{114} + x^{112} + x^{108} + x^{104} + x^{96} + x^{94} + x^{92} + x^{90} + x^{86} + x^{82} \\
& + x^{80} + x^{74} + x^{64} + x^{62} + x^{60} + x^{54} + x^{50} + x^{46} + x^{44} + x^{42} + x^{32} \\
& + x^{28} + x^{22} + x^{20} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{123} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{111} + x^{106} + x^{104} + x^{100} \\
& + x^{99} + x^{98} + x^{95} + x^{90} + x^{88} + x^{84} + x^{83} + x^{82} + x^{79} + x^{74} + x^{72} \\
& + x^{68} + x^{67} + x^{66} + x^{63} + x^{58} + x^{56} + x^{52} + x^{51} + x^{50} + x^{47} + x^{42} \\
& + x^{40} + x^{36} + x^{35} + x^{34} + x^{31} + x^{26} + x^{24} + x^{20} + x^{19} + x^{18} + x^{15} \\
& + x^{11} + x^{10} + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{124} + x^{108} + x^{96} + x^{92} + x^{80} + x^{76} + x^{64} + x^{60} + x^{48} + x^{44} + x^{32} \\
& + x^{28} + x^{16} + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 0, 0, 0, 0]$.

For $\phi(W^o, 1, 1)$:

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{121} + x^{119} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} \\
& + x^{105} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{93} + x^{92} \\
& + x^{88} + x^{86} + x^{84} + x^{83} + x^{82} + x^{78} + x^{77} + x^{76} + x^{75} + x^{70} + x^{69} \\
& + x^{68} + x^{62} + x^{61} + x^{59} + x^{56} + x^{54} + x^{53} + x^{51} + x^{45} + x^{44} + x^{43} \\
& + x^{42} + x^{37} + x^{36}, \\
p_3(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{113} + x^{111} \\
& + x^{109} + x^{104} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{92} + x^{91} + x^{89} \\
& + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{79} + x^{78} + x^{77} + x^{76} + x^{71} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{57} + x^{54} + x^{53} \\
& + x^{48} + x^{47} + x^{45} + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{36} + x^{35} + x^{33} \\
& + x^{32} + x^{28} + x^{27} + x^{21} + x^{20}, \\
p_6(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} + x^{113} \\
& + x^{109} + x^{108} + x^{107} + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} \\
& + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} \\
& + x^{77} + x^{74} + x^{73} + x^{72} + x^{69} + x^{67} + x^{64} + x^{63} + x^{62} + x^{61} + x^{58} \\
& + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{41} + x^{39} + x^{38} \\
& + x^{33} + x^{31} + x^{30} + x^{28} + x^{27} + x^{25} + x^{23} + x^{21} + x^{20} + x^{17} + x^{15} \\
& + x^9 + x^7 + x^4 + x^3 + x + 1, \\
p_9(x) &= x^{125} + x^{123} + x^{121} + x^{120} + x^{117} + x^{115} + x^{113} + x^{112} + x^{101} + x^{99} \\
& + x^{97} + x^{96} + x^{85} + x^{83} + x^{81} + x^{80} + x^{69} + x^{67} + x^{65} + x^{64} + x^{53} \\
& + x^{51} + x^{49} + x^{48} + x^{37} + x^{35} + x^{33} + x^{32} + x^{21} + x^{19} + x^{17} + x^{16} \\
& + x^{13} + x^{11} + x^9 + x^8,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{125} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{112} + x^{111} + x^{109} + x^{108} \\
& + x^{97} + x^{95} + x^{93} + x^{92} + x^{81} + x^{79} + x^{77} + x^{76} + x^{65} + x^{63} + x^{61} \\
& + x^{60} + x^{49} + x^{47} + x^{45} + x^{44} + x^{33} + x^{31} + x^{29} + x^{28} + x^{17} + x^{15} \\
& + x^{12} + x^{11} + x^8 + x^7 + x^4 + x^3 + x + 1,
\end{aligned}$$

and the initial terms are $[0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 1, 1, 0, 1]$.

Below is the transition function and output function of an 2-automaton that generates $T = M_{0,0}^0$:

Transition function $(n, j) \mapsto \delta(n, j)$ ($\Lambda(n) := [\delta(n, 0), \delta(n, 1)]$):

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2045	[3296, 2584]	4090	[1502, 5393]	6135	[6993, 4642]
1	[3, 4]	2046	[3297, 1137]	4091	[5410, 3517]	6136	[6882, 1945]
2	[5, 6]	2047	[3298, 3299]	4092	[365, 5411]	6137	[6994, 2157]
3	[7, 8]	2048	[3240, 3300]	4093	[413, 1070]	6138	[6995, 141]
4	[9, 10]	2049	[3301, 1283]	4094	[5412, 1065]	6139	[3925, 6996]
5	[11, 12]	2050	[78, 341]	4095	[3023, 3639]	6140	[6997, 1962]
6	[13, 14]	2051	[918, 3302]	4096	[5413, 2894]	6141	[4842, 2237]
7	[15, 16]	2052	[3303, 3304]	4097	[5414, 3814]	6142	[2155, 4767]
8	[17, 18]	2053	[3305, 3306]	4098	[5415, 2726]	6143	[6998, 1554]
9	[19, 20]	2054	[3307, 3308]	4099	[5416, 3011]	6144	[6999, 4345]
10	[21, 22]	2055	[3309, 3310]	4100	[5417, 3046]	6145	[7000, 2145]
11	[23, 24]	2056	[3311, 3312]	4101	[5418, 2855]	6146	[7001, 4826]
12	[25, 26]	2057	[2975, 3313]	4102	[3667, 1048]	6147	[1757, 4295]
13	[27, 28]	2058	[3271, 3314]	4103	[5419, 5420]	6148	[7002, 3929]
14	[29, 30]	2059	[3315, 2903]	4104	[5421, 5422]	6149	[7003, 5076]
15	[31, 32]	2060	[3316, 3317]	4105	[5423, 1033]	6150	[7004, 6387]
16	[33, 34]	2061	[3318, 3319]	4106	[5424, 424]	6151	[4414, 5128]
17	[35, 36]	2062	[3320, 2566]	4107	[3764, 5425]	6152	[7005, 4667]
18	[37, 38]	2063	[3321, 3322]	4108	[3304, 5342]	6153	[7006, 3970]
19	[39, 40]	2064	[3323, 3324]	4109	[5426, 5427]	6154	[7007, 5032]
20	[41, 42]	2065	[3185, 3325]	4110	[5428, 5243]	6155	[7008, 1625]
21	[43, 44]	2066	[3326, 1221]	4111	[5429, 276]	6156	[3997, 2218]
22	[45, 46]	2067	[3327, 3328]	4112	[5430, 5431]	6157	[2491, 2496]
23	[2, 47]	2068	[3329, 3330]	4113	[857, 5432]	6158	[7009, 1591]
24	[48, 49]	2069	[3331, 2968]	4114	[5433, 5434]	6159	[7010, 2216]
25	[50, 51]	2070	[3332, 3333]	4115	[5435, 1182]	6160	[7011, 746]
26	[52, 53]	2071	[3334, 2858]	4116	[5436, 5437]	6161	[7012, 4947]
27	[47, 54]	2072	[3335, 3336]	4117	[246, 2886]	6162	[6471, 5040]
28	[55, 56]	2073	[3337, 3068]	4118	[1222, 5438]	6163	[4263, 2468]
29	[57, 58]	2074	[3056, 3338]	4119	[5439, 3270]	6164	[2489, 4544]
30	[59, 60]	2075	[3339, 3340]	4120	[3411, 5333]	6165	[2429, 4634]
31	[61, 62]	2076	[3341, 3342]	4121	[5440, 3721]	6166	[2194, 6850]
32	[63, 64]	2077	[3343, 1097]	4122	[3784, 5441]	6167	[787, 4128]
33	[65, 66]	2078	[2833, 3344]	4123	[5442, 3143]	6168	[7013, 6996]

34	[67, 68]	2079	[3345, 2632]	4124	[5226, 376]	6169	[7014, 1941]
35	[69, 70]	2080	[350, 1347]	4125	[5443, 66]	6170	[4817, 5170]
36	[71, 72]	2081	[2821, 3346]	4126	[66, 5444]	6171	[7015, 767]
37	[73, 74]	2082	[2935, 283]	4127	[5445, 1180]	6172	[7016, 4305]
38	[75, 76]	2083	[3347, 3068]	4128	[5446, 5447]	6173	[678, 4605]
39	[77, 78]	2084	[263, 1365]	4129	[2570, 5448]	6174	[2383, 6816]
40	[79, 80]	2085	[3348, 3349]	4130	[3789, 3520]	6175	[7017, 5017]
41	[81, 82]	2086	[394, 3350]	4131	[5449, 5450]	6176	[4251, 2035]
42	[83, 84]	2087	[3351, 3352]	4132	[5451, 3266]	6177	[4907, 4362]
43	[85, 86]	2088	[3276, 291]	4133	[3556, 3052]	6178	[7018, 1744]
44	[87, 88]	2089	[3353, 2684]	4134	[5452, 3366]	6179	[7019, 6674]
45	[89, 90]	2090	[3354, 3355]	4135	[3781, 3499]	6180	[7020, 1741]
46	[91, 92]	2091	[3356, 3357]	4136	[5453, 5454]	6181	[1582, 4837]
47	[93, 94]	2092	[3161, 3358]	4137	[5455, 431]	6182	[7021, 2122]
48	[95, 96]	2093	[3359, 3360]	4138	[5456, 5457]	6183	[7022, 7023]
49	[97, 98]	2094	[3361, 3362]	4139	[5458, 5459]	6184	[4034, 7024]
50	[99, 100]	2095	[2918, 3363]	4140	[5460, 5461]	6185	[7025, 4106]
51	[101, 102]	2096	[3364, 3365]	4141	[3102, 5462]	6186	[7026, 1931]
52	[103, 104]	2097	[3366, 3367]	4142	[2550, 5463]	6187	[4988, 2279]
53	[105, 106]	2098	[2699, 3368]	4143	[5464, 92]	6188	[7027, 2268]
54	[6, 107]	2099	[3369, 2996]	4144	[5465, 5364]	6189	[7028, 7029]
55	[108, 109]	2100	[3370, 3371]	4145	[5466, 2612]	6190	[7030, 796]
56	[110, 111]	2101	[3372, 3373]	4146	[5467, 2747]	6191	[1996, 7031]
57	[112, 113]	2102	[3374, 3375]	4147	[5468, 5433]	6192	[4995, 7032]
58	[114, 115]	2103	[3237, 3376]	4148	[5469, 3456]	6193	[6847, 1692]
59	[116, 117]	2104	[3377, 891]	4149	[3025, 5368]	6194	[7033, 4779]
60	[118, 119]	2105	[3378, 3050]	4150	[5470, 3266]	6195	[228, 4932]
61	[120, 121]	2106	[1268, 3379]	4151	[5438, 3262]	6196	[4764, 751]
62	[122, 123]	2107	[3151, 2591]	4152	[5471, 3688]	6197	[1578, 6901]
63	[124, 125]	2108	[3380, 3381]	4153	[3299, 5472]	6198	[7034, 215]
64	[126, 127]	2109	[3382, 2903]	4154	[5473, 1116]	6199	[7035, 621]
65	[128, 129]	2110	[3177, 2569]	4155	[2684, 5349]	6200	[4120, 5050]
66	[130, 131]	2111	[2653, 2790]	4156	[2961, 2700]	6201	[7036, 1758]
67	[132, 133]	2112	[80, 3383]	4157	[5474, 868]	6202	[7037, 6514]
68	[134, 135]	2113	[3384, 2653]	4158	[3043, 2840]	6203	[1864, 2066]
69	[136, 137]	2114	[3005, 3220]	4159	[5475, 3177]	6204	[7038, 4774]
70	[138, 139]	2115	[3385, 1164]	4160	[432, 91]	6205	[7039, 632]
71	[140, 141]	2116	[3386, 3387]	4161	[2723, 3636]	6206	[7040, 3935]
72	[142, 143]	2117	[3388, 3389]	4162	[5476, 383]	6207	[4482, 494]
73	[144, 145]	2118	[3390, 1485]	4163	[76, 5477]	6208	[7041, 4417]
74	[146, 147]	2119	[3391, 3392]	4164	[5478, 2710]	6209	[4819, 4479]
75	[148, 149]	2120	[3268, 3393]	4165	[5479, 3423]	6210	[7042, 4384]
76	[150, 151]	2121	[3394, 386]	4166	[5480, 1233]	6211	[7043, 4538]
77	[152, 153]	2122	[3395, 1454]	4167	[3703, 5481]	6212	[7044, 6741]

78	[154, 155]	2123	[2779, 1152]	4168	[2669, 5327]	6213	[123, 3911]
79	[156, 157]	2124	[1104, 412]	4169	[5482, 899]	6214	[7045, 7016]
80	[158, 159]	2125	[989, 3396]	4170	[5483, 970]	6215	[7046, 4955]
81	[160, 161]	2126	[3397, 1238]	4171	[5484, 1339]	6216	[7047, 4991]
82	[162, 163]	2127	[3398, 1162]	4172	[5485, 909]	6217	[7048, 2006]
83	[164, 165]	2128	[3399, 306]	4173	[5486, 5487]	6218	[2287, 571]
84	[166, 167]	2129	[3400, 2827]	4174	[5488, 5202]	6219	[7049, 6717]
85	[168, 169]	2130	[3401, 3402]	4175	[1354, 330]	6220	[5090, 5024]
86	[170, 171]	2131	[2888, 3403]	4176	[5489, 5490]	6221	[4275, 5092]
87	[172, 173]	2132	[2680, 2873]	4177	[5491, 2609]	6222	[7050, 6688]
88	[174, 175]	2133	[3404, 3203]	4178	[5492, 5360]	6223	[6556, 6300]
89	[176, 177]	2134	[3405, 426]	4179	[5493, 3762]	6224	[7051, 6961]
90	[178, 179]	2135	[2813, 3406]	4180	[3223, 2614]	6225	[7052, 1655]
91	[180, 181]	2136	[2731, 278]	4181	[5494, 5495]	6226	[7053, 4159]
92	[182, 183]	2137	[1111, 928]	4182	[5496, 3408]	6227	[7054, 2325]
93	[184, 185]	2138	[3407, 1003]	4183	[5497, 992]	6228	[7055, 4100]
94	[186, 187]	2139	[3408, 3409]	4184	[5498, 1361]	6229	[4277, 145]
95	[188, 189]	2140	[3410, 3411]	4185	[5499, 3087]	6230	[7056, 6477]
96	[190, 191]	2141	[377, 3412]	4186	[898, 5500]	6231	[7057, 7058]
97	[192, 193]	2142	[2950, 3413]	4187	[5501, 3139]	6232	[7059, 3989]
98	[194, 195]	2143	[3414, 3239]	4188	[5502, 1111]	6233	[7060, 2071]
99	[196, 197]	2144	[3415, 3416]	4189	[5503, 5472]	6234	[4323, 1584]
100	[198, 193]	2145	[3417, 3318]	4190	[5504, 1094]	6235	[3930, 6730]
101	[199, 200]	2146	[3418, 3419]	4191	[1374, 5505]	6236	[2307, 4831]
102	[201, 202]	2147	[289, 2833]	4192	[2672, 5506]	6237	[7061, 6958]
103	[203, 204]	2148	[3420, 3421]	4193	[5507, 5508]	6238	[7062, 3886]
104	[205, 206]	2149	[3422, 3423]	4194	[5509, 2942]	6239	[7063, 695]
105	[207, 192]	2150	[3424, 3425]	4195	[5510, 5338]	6240	[7064, 1672]
106	[208, 209]	2151	[2705, 2989]	4196	[2982, 3022]	6241	[7065, 4965]
107	[12, 210]	2152	[2542, 3426]	4197	[3793, 1458]	6242	[1734, 4559]
108	[211, 212]	2153	[1189, 3427]	4198	[5381, 5511]	6243	[2013, 6756]
109	[213, 214]	2154	[3428, 2557]	4199	[5512, 1357]	6244	[7066, 2170]
110	[215, 216]	2155	[2752, 1407]	4200	[3014, 5193]	6245	[7067, 4621]
111	[217, 218]	2156	[3413, 3321]	4201	[5513, 5514]	6246	[7068, 5050]
112	[219, 220]	2157	[3429, 3388]	4202	[3061, 2794]	6247	[7069, 4346]
113	[221, 222]	2158	[3430, 3042]	4203	[5515, 5516]	6248	[2177, 7011]
114	[223, 224]	2159	[3313, 3227]	4204	[5517, 3809]	6249	[4021, 4239]
115	[225, 226]	2160	[3431, 972]	4205	[5518, 3291]	6250	[2524, 7070]
116	[227, 228]	2161	[3432, 242]	4206	[5519, 3155]	6251	[6571, 6311]
117	[229, 230]	2162	[3433, 3165]	4207	[5520, 3350]	6252	[2452, 4875]
118	[231, 232]	2163	[3049, 3434]	4208	[5521, 3650]	6253	[7071, 2473]
119	[233, 234]	2164	[3435, 1374]	4209	[62, 3554]	6254	[7072, 2306]
120	[235, 236]	2165	[3436, 1328]	4210	[5522, 1019]	6255	[7073, 4510]
121	[237, 238]	2166	[3437, 1355]	4211	[5523, 2735]	6256	[1726, 1904]

122	[239, 240]	2167	[3438, 3439]	4212	[3280, 1369]	6257	[7074, 3864]
123	[241, 242]	2168	[3440, 3441]	4213	[5524, 5525]	6258	[745, 6825]
124	[243, 244]	2169	[2551, 3442]	4214	[920, 3247]	6259	[4065, 7016]
125	[245, 246]	2170	[1394, 3443]	4215	[5526, 3297]	6260	[7075, 1857]
126	[247, 248]	2171	[3444, 3445]	4216	[5527, 29]	6261	[6730, 5149]
127	[249, 250]	2172	[3446, 3447]	4217	[5528, 5529]	6262	[7076, 5130]
128	[251, 252]	2173	[3448, 3449]	4218	[5530, 5531]	6263	[4618, 7077]
129	[253, 254]	2174	[3450, 1006]	4219	[5532, 5427]	6264	[7078, 656]
130	[255, 256]	2175	[3451, 3150]	4220	[5533, 3598]	6265	[4977, 2075]
131	[257, 258]	2176	[1066, 2549]	4221	[325, 2974]	6266	[7079, 1637]
132	[259, 260]	2177	[3452, 364]	4222	[5394, 3795]	6267	[7080, 1856]
133	[258, 261]	2178	[1203, 2996]	4223	[5534, 5535]	6268	[2357, 4824]
134	[262, 263]	2179	[3453, 362]	4224	[5339, 1470]	6269	[7081, 5158]
135	[264, 265]	2180	[3454, 2672]	4225	[5536, 327]	6270	[5066, 788]
136	[266, 267]	2181	[3387, 3455]	4226	[5537, 3435]	6271	[2366, 7082]
137	[268, 269]	2182	[2609, 3075]	4227	[3637, 2760]	6272	[7083, 751]
138	[270, 271]	2183	[3456, 2693]	4228	[5538, 3176]	6273	[7084, 2385]
139	[272, 273]	2184	[115, 235]	4229	[5539, 2585]	6274	[7085, 6850]
140	[274, 275]	2185	[3457, 2778]	4230	[3426, 5540]	6275	[7086, 4634]
141	[276, 277]	2186	[3458, 2923]	4231	[5541, 2755]	6276	[4448, 2306]
142	[278, 279]	2187	[2987, 3459]	4232	[3828, 3502]	6277	[7087, 2302]
143	[280, 281]	2188	[3460, 2953]	4233	[5542, 5543]	6278	[7088, 1766]
144	[282, 283]	2189	[3461, 2691]	4234	[5544, 5545]	6279	[7089, 2506]
145	[284, 285]	2190	[338, 3386]	4235	[5546, 1246]	6280	[7090, 5193]
146	[286, 287]	2191	[3462, 3463]	4236	[5547, 5548]	6281	[7091, 5593]
147	[288, 289]	2192	[3464, 2941]	4237	[2881, 3726]	6282	[939, 1361]
148	[290, 291]	2193	[1506, 326]	4238	[3618, 1422]	6283	[311, 5252]
149	[292, 293]	2194	[3465, 2595]	4239	[5549, 3577]	6284	[3427, 269]
150	[294, 295]	2195	[3466, 3467]	4240	[3826, 3360]	6285	[7092, 858]
151	[296, 297]	2196	[3468, 3469]	4241	[5550, 876]	6286	[5772, 2828]
152	[298, 299]	2197	[3470, 3471]	4242	[5551, 5552]	6287	[7093, 2616]
153	[300, 301]	2198	[2646, 1416]	4243	[5553, 2555]	6288	[1517, 5961]
154	[302, 303]	2199	[2929, 2610]	4244	[5554, 3102]	6289	[7094, 3375]
155	[304, 305]	2200	[3472, 3473]	4245	[5555, 5556]	6290	[7095, 2869]
156	[306, 307]	2201	[3474, 3475]	4246	[5557, 1338]	6291	[1370, 5257]
157	[308, 309]	2202	[3103, 1302]	4247	[5558, 5559]	6292	[7096, 3727]
158	[310, 311]	2203	[3476, 3301]	4248	[5560, 5561]	6293	[7097, 5979]
159	[312, 241]	2204	[3477, 3478]	4249	[5562, 2757]	6294	[7098, 5892]
160	[313, 314]	2205	[3479, 3480]	4250	[5563, 349]	6295	[7099, 5257]
161	[315, 316]	2206	[3481, 1234]	4251	[5564, 5565]	6296	[1487, 3784]
162	[317, 318]	2207	[3482, 251]	4252	[1071, 411]	6297	[6067, 975]
163	[319, 320]	2208	[2994, 3483]	4253	[5566, 3054]	6298	[7100, 2753]
164	[321, 306]	2209	[3484, 3485]	4254	[2846, 5567]	6299	[7101, 2685]
165	[322, 323]	2210	[3486, 3487]	4255	[5568, 5569]	6300	[7102, 5375]

166	[324, 325]	2211	[3488, 3243]	4256	[5570, 5571]	6301	[7103, 3200]
167	[326, 327]	2212	[3489, 1343]	4257	[5572, 5573]	6302	[7104, 5434]
168	[328, 329]	2213	[1484, 1013]	4258	[5574, 5559]	6303	[7105, 3183]
169	[330, 331]	2214	[3434, 1226]	4259	[5575, 3387]	6304	[7106, 994]
170	[332, 333]	2215	[3490, 1331]	4260	[5576, 5577]	6305	[5383, 1012]
171	[334, 304]	2216	[3491, 3492]	4261	[5578, 1015]	6306	[5984, 2862]
172	[335, 336]	2217	[1090, 3493]	4262	[5579, 5580]	6307	[3194, 7107]
173	[337, 338]	2218	[3494, 3459]	4263	[3830, 5581]	6308	[2965, 1380]
174	[339, 340]	2219	[3495, 3309]	4264	[5582, 1512]	6309	[7108, 1240]
175	[341, 342]	2220	[265, 3496]	4265	[5583, 1225]	6310	[1321, 1081]
176	[343, 344]	2221	[3497, 2607]	4266	[5584, 1200]	6311	[7109, 7110]
177	[345, 346]	2222	[3498, 3499]	4267	[5585, 2890]	6312	[3130, 1244]
178	[347, 348]	2223	[367, 3415]	4268	[1132, 3071]	6313	[7111, 3204]
179	[349, 350]	2224	[2674, 3500]	4269	[5586, 1429]	6314	[7112, 1430]
180	[351, 352]	2225	[1384, 2584]	4270	[3712, 1444]	6315	[5516, 3293]
181	[353, 328]	2226	[3501, 3478]	4271	[5587, 5588]	6316	[7113, 2565]
182	[354, 355]	2227	[3502, 1384]	4272	[3349, 3464]	6317	[7114, 3194]
183	[356, 357]	2228	[3503, 1066]	4273	[5589, 1215]	6318	[5665, 2854]
184	[358, 359]	2229	[3504, 21]	4274	[5590, 5591]	6319	[5749, 3421]
185	[360, 361]	2230	[979, 3505]	4275	[5577, 5592]	6320	[1100, 7115]
186	[362, 363]	2231	[3506, 260]	4276	[273, 5593]	6321	[7116, 3]
187	[364, 365]	2232	[3507, 2906]	4277	[5594, 5595]	6322	[7117, 3845]
188	[366, 367]	2233	[3508, 3509]	4278	[3402, 1438]	6323	[7118, 2767]
189	[368, 369]	2234	[3510, 3511]	4279	[3723, 3004]	6324	[7119, 288]
190	[370, 371]	2235	[82, 2674]	4280	[927, 5596]	6325	[1325, 2778]
191	[372, 373]	2236	[3512, 3513]	4281	[5597, 3129]	6326	[7120, 399]
192	[374, 375]	2237	[3514, 280]	4282	[3771, 2932]	6327	[7121, 7122]
193	[376, 377]	2238	[3515, 2933]	4283	[5598, 5541]	6328	[102, 5595]
194	[378, 379]	2239	[3516, 451]	4284	[3189, 3786]	6329	[7123, 414]
195	[380, 381]	2240	[884, 3517]	4285	[5599, 949]	6330	[7124, 1489]
196	[382, 383]	2241	[3518, 3519]	4286	[5600, 5601]	6331	[5200, 3472]
197	[384, 385]	2242	[3520, 3521]	4287	[5602, 2904]	6332	[7125, 3607]
198	[386, 385]	2243	[3522, 2999]	4288	[5603, 1493]	6333	[7126, 2637]
199	[387, 388]	2244	[2703, 3523]	4289	[5604, 2624]	6334	[7127, 6116]
200	[389, 390]	2245	[3524, 857]	4290	[2861, 909]	6335	[1001, 1357]
201	[391, 392]	2246	[1073, 3525]	4291	[5605, 3637]	6336	[7128, 1139]
202	[393, 394]	2247	[3252, 1446]	4292	[5606, 396]	6337	[7129, 2977]
203	[30, 395]	2248	[3526, 1032]	4293	[5607, 5608]	6338	[383, 3046]
204	[396, 397]	2249	[3527, 3528]	4294	[876, 1208]	6339	[3258, 3118]
205	[398, 399]	2250	[3529, 3530]	4295	[5609, 5389]	6340	[7130, 5793]
206	[400, 401]	2251	[3531, 2676]	4296	[5610, 5506]	6341	[7131, 5784]
207	[402, 403]	2252	[3532, 3533]	4297	[5611, 1324]	6342	[7132, 307]
208	[404, 405]	2253	[3534, 83]	4298	[1498, 5612]	6343	[1316, 29]
209	[406, 407]	2254	[3535, 1506]	4299	[5613, 5614]	6344	[3171, 5401]

210	[24, 27]	2255	[3536, 3314]	4300	[1085, 5615]	6345	[7133, 3443]
211	[408, 409]	2256	[3523, 1075]	4301	[2589, 1084]	6346	[1159, 3621]
212	[410, 411]	2257	[3492, 3537]	4302	[3362, 5613]	6347	[7134, 2693]
213	[412, 413]	2258	[3538, 382]	4303	[1200, 2917]	6348	[6171, 3179]
214	[414, 415]	2259	[3539, 3540]	4304	[3439, 3361]	6349	[7135, 3749]
215	[416, 417]	2260	[3541, 118]	4305	[5616, 1208]	6350	[3638, 3477]
216	[418, 419]	2261	[3542, 3543]	4306	[5617, 2917]	6351	[5657, 5670]
217	[420, 421]	2262	[297, 3544]	4307	[5618, 2982]	6352	[7136, 5921]
218	[422, 423]	2263	[3545, 3546]	4308	[5619, 5473]	6353	[7137, 854]
219	[424, 425]	2264	[3480, 1299]	4309	[1392, 5620]	6354	[5461, 5461]
220	[426, 427]	2265	[397, 100]	4310	[991, 433]	6355	[3007, 7138]
221	[428, 67]	2266	[1291, 3547]	4311	[5621, 3015]	6356	[7139, 3001]
222	[429, 430]	2267	[3548, 3549]	4312	[5622, 860]	6357	[7140, 1247]
223	[431, 432]	2268	[3550, 3551]	4313	[5623, 3785]	6358	[7141, 3376]
224	[433, 434]	2269	[3552, 1040]	4314	[2927, 5624]	6359	[7142, 5526]
225	[435, 436]	2270	[2963, 3553]	4315	[1209, 5353]	6360	[3300, 5968]
226	[381, 437]	2271	[3218, 1027]	4316	[5625, 3062]	6361	[3262, 919]
227	[438, 439]	2272	[3554, 1312]	4317	[5626, 104]	6362	[7143, 2756]
228	[440, 310]	2273	[3555, 3556]	4318	[5627, 2651]	6363	[7144, 1209]
229	[441, 442]	2274	[3557, 30]	4319	[5628, 5629]	6364	[3082, 5288]
230	[443, 444]	2275	[3558, 3559]	4320	[5630, 3844]	6365	[5422, 5705]
231	[445, 446]	2276	[3560, 3561]	4321	[5247, 400]	6366	[7145, 1475]
232	[447, 448]	2277	[3562, 1127]	4322	[5631, 2626]	6367	[5525, 5544]
233	[449, 450]	2278	[3563, 97]	4323	[5581, 5632]	6368	[6010, 5551]
234	[451, 409]	2279	[3564, 3565]	4324	[437, 5633]	6369	[7146, 3729]
235	[1, 452]	2280	[3478, 3566]	4325	[3571, 1258]	6370	[3648, 1413]
236	[226, 453]	2281	[855, 3567]	4326	[5634, 3301]	6371	[7147, 112]
237	[454, 455]	2282	[3568, 1486]	4327	[5635, 3056]	6372	[3260, 2817]
238	[456, 457]	2283	[3569, 893]	4328	[5636, 5635]	6373	[2772, 5891]
239	[458, 459]	2284	[2992, 2601]	4329	[5637, 439]	6374	[7148, 3841]
240	[460, 461]	2285	[3570, 3571]	4330	[2801, 1381]	6375	[1513, 1186]
241	[462, 463]	2286	[3572, 3573]	4331	[5638, 5574]	6376	[117, 2961]
242	[464, 465]	2287	[3574, 1069]	4332	[5639, 5640]	6377	[7149, 979]
243	[466, 467]	2288	[3575, 2652]	4333	[5641, 3578]	6378	[7150, 7151]
244	[468, 469]	2289	[2946, 3576]	4334	[5642, 968]	6379	[2886, 3276]
245	[470, 471]	2290	[1500, 3577]	4335	[5643, 3047]	6380	[299, 3526]
246	[472, 473]	2291	[3578, 3579]	4336	[5644, 3290]	6381	[7152, 957]
247	[474, 475]	2292	[3580, 3523]	4337	[5645, 5187]	6382	[7153, 3647]
248	[476, 477]	2293	[3050, 3538]	4338	[3274, 2759]	6383	[906, 2979]
249	[478, 479]	2294	[3581, 3582]	4339	[3737, 1109]	6384	[7154, 3441]
250	[480, 481]	2295	[2803, 2606]	4340	[5646, 2928]	6385	[6138, 5838]
251	[482, 483]	2296	[3583, 3584]	4341	[1301, 5343]	6386	[439, 5447]
252	[484, 485]	2297	[1236, 2547]	4342	[5647, 5648]	6387	[7155, 2666]
253	[486, 487]	2298	[1182, 3585]	4343	[3190, 2836]	6388	[7156, 5495]

254	[488, 489]	2299	[3543, 288]	4344	[5649, 1468]	6389	[7157, 2866]
255	[490, 491]	2300	[3586, 3587]	4345	[5650, 5651]	6390	[7158, 3228]
256	[492, 493]	2301	[3588, 1082]	4346	[5652, 3805]	6391	[7159, 1301]
257	[494, 495]	2302	[3589, 3590]	4347	[5653, 5591]	6392	[7160, 1386]
258	[496, 497]	2303	[3591, 3592]	4348	[5654, 5276]	6393	[3445, 3058]
259	[498, 499]	2304	[3593, 3239]	4349	[2875, 2892]	6394	[7161, 369]
260	[500, 501]	2305	[3594, 3223]	4350	[5655, 932]	6395	[3409, 428]
261	[502, 503]	2306	[3595, 3596]	4351	[5656, 3736]	6396	[3582, 5984]
262	[504, 505]	2307	[3597, 3598]	4352	[5350, 5657]	6397	[7162, 3639]
263	[506, 507]	2308	[3599, 2745]	4353	[5658, 3529]	6398	[5573, 5847]
264	[508, 509]	2309	[2719, 937]	4354	[5659, 3356]	6399	[3089, 922]
265	[510, 511]	2310	[3600, 3601]	4355	[5660, 1369]	6400	[1003, 6073]
266	[512, 513]	2311	[3227, 2991]	4356	[5661, 1463]	6401	[7163, 1462]
267	[514, 515]	2312	[3499, 3602]	4357	[3592, 5259]	6402	[7164, 5902]
268	[516, 215]	2313	[3603, 3279]	4358	[3002, 1266]	6403	[7165, 3737]
269	[517, 518]	2314	[3604, 3605]	4359	[5662, 5638]	6404	[7166, 3196]
270	[519, 520]	2315	[874, 1445]	4360	[5663, 3603]	6405	[2634, 1261]
271	[521, 522]	2316	[3425, 2956]	4361	[5664, 5665]	6406	[7167, 2856]
272	[523, 524]	2317	[983, 1306]	4362	[5666, 5667]	6407	[1278, 424]
273	[525, 526]	2318	[3606, 2893]	4363	[5668, 5669]	6408	[7168, 2869]
274	[527, 528]	2319	[3521, 3465]	4364	[5487, 5268]	6409	[7169, 3602]
275	[529, 530]	2320	[2690, 2730]	4365	[5670, 5671]	6410	[7170, 1205]
276	[531, 532]	2321	[3367, 3607]	4366	[5672, 5284]	6411	[7171, 5567]
277	[533, 534]	2322	[3608, 2737]	4367	[1474, 5673]	6412	[7172, 5920]
278	[535, 536]	2323	[2682, 3609]	4368	[3222, 2566]	6413	[3373, 1224]
279	[537, 538]	2324	[3610, 2957]	4369	[5674, 1375]	6414	[7173, 3712]
280	[539, 540]	2325	[3611, 3612]	4370	[5362, 2965]	6415	[7174, 5289]
281	[541, 542]	2326	[3613, 3101]	4371	[5444, 3100]	6416	[7175, 5956]
282	[543, 544]	2327	[3614, 107]	4372	[3519, 5675]	6417	[7176, 407]
283	[200, 545]	2328	[2792, 3615]	4373	[5676, 3305]	6418	[5632, 3304]
284	[524, 546]	2329	[3616, 2787]	4374	[5392, 1172]	6419	[7177, 395]
285	[547, 548]	2330	[3617, 3618]	4375	[5677, 918]	6420	[7178, 3511]
286	[549, 550]	2331	[3619, 873]	4376	[5678, 2694]	6421	[5425, 7179]
287	[551, 552]	2332	[1332, 3620]	4377	[5679, 1166]	6422	[7180, 6093]
288	[553, 554]	2333	[3621, 367]	4378	[5680, 5681]	6423	[7181, 6205]
289	[555, 556]	2334	[3622, 27]	4379	[5682, 3318]	6424	[7182, 2995]
290	[557, 558]	2335	[3623, 3624]	4380	[5683, 5684]	6425	[7115, 3331]
291	[559, 560]	2336	[1068, 3625]	4381	[5685, 3659]	6426	[7183, 859]
292	[561, 562]	2337	[3626, 3627]	4382	[2835, 5686]	6427	[5783, 2896]
293	[563, 564]	2338	[3500, 3628]	4383	[5671, 5237]	6428	[5370, 5431]
294	[565, 566]	2339	[2655, 3456]	4384	[5673, 378]	6429	[7184, 7179]
295	[567, 568]	2340	[3629, 3630]	4385	[5687, 1204]	6430	[7185, 5285]
296	[569, 570]	2341	[3505, 1335]	4386	[5688, 3573]	6431	[5543, 1364]
297	[571, 572]	2342	[3473, 3631]	4387	[3567, 1287]	6432	[3627, 5186]

298	[573, 574]	2343	[3632, 3243]	4388	[3181, 3669]	6433	[7107, 3650]
299	[575, 576]	2344	[2587, 3174]	4389	[3652, 3290]	6434	[373, 1488]
300	[577, 578]	2345	[1079, 2986]	4390	[5689, 398]	6435	[7186, 5838]
301	[579, 580]	2346	[3633, 1289]	4391	[2921, 2976]	6436	[7187, 2664]
302	[581, 582]	2347	[3634, 3635]	4392	[910, 1499]	6437	[7188, 5186]
303	[583, 526]	2348	[3636, 3637]	4393	[5690, 3648]	6438	[7189, 3279]
304	[584, 585]	2349	[1323, 3638]	4394	[1401, 5691]	6439	[7190, 2794]
305	[586, 587]	2350	[3639, 3640]	4395	[5692, 3782]	6440	[7191, 3495]
306	[588, 589]	2351	[3641, 353]	4396	[3666, 5693]	6441	[7192, 5632]
307	[590, 591]	2352	[3642, 3306]	4397	[3808, 5386]	6442	[7193, 3004]
308	[592, 593]	2353	[2954, 992]	4398	[2614, 2676]	6443	[7194, 2659]
309	[594, 595]	2354	[3643, 261]	4399	[5694, 2850]	6444	[3019, 1304]
310	[596, 597]	2355	[3644, 3645]	4400	[3469, 5695]	6445	[7195, 1472]
311	[598, 599]	2356	[3646, 249]	4401	[5696, 2826]	6446	[5210, 1105]
312	[600, 601]	2357	[3647, 3648]	4402	[1250, 3176]	6447	[7196, 379]
313	[602, 603]	2358	[3649, 1507]	4403	[5697, 3822]	6448	[7197, 1327]
314	[604, 605]	2359	[242, 3264]	4404	[2924, 114]	6449	[7198, 243]
315	[606, 607]	2360	[3650, 994]	4405	[1303, 2741]	6450	[5432, 6232]
316	[608, 609]	2361	[3651, 3652]	4406	[5698, 3416]	6451	[7199, 2645]
317	[610, 611]	2362	[3653, 3654]	4407	[2797, 3825]	6452	[5326, 1270]
318	[612, 613]	2363	[3655, 967]	4408	[5699, 926]	6453	[7200, 5947]
319	[614, 584]	2364	[3656, 1071]	4409	[244, 3417]	6454	[7201, 3312]
320	[615, 616]	2365	[3657, 1116]	4410	[5700, 5443]	6455	[7202, 1296]
321	[617, 618]	2366	[3658, 3659]	4411	[5701, 1007]	6456	[1472, 1044]
322	[619, 620]	2367	[3660, 3426]	4412	[2612, 398]	6457	[7203, 2608]
323	[621, 622]	2368	[3661, 1286]	4413	[5702, 3252]	6458	[7204, 1187]
324	[623, 624]	2369	[3662, 1222]	4414	[5703, 28]	6459	[7205, 297]
325	[625, 626]	2370	[3246, 3328]	4415	[5704, 5705]	6460	[7206, 5312]
326	[627, 628]	2371	[3663, 952]	4416	[74, 5706]	6461	[1184, 932]
327	[629, 630]	2372	[3664, 3199]	4417	[5707, 3288]	6462	[5255, 1179]
328	[631, 632]	2373	[3665, 3666]	4418	[3577, 934]	6463	[1094, 1273]
329	[633, 634]	2374	[1396, 3156]	4419	[5708, 2577]	6464	[7207, 5473]
330	[635, 636]	2375	[886, 3667]	4420	[5709, 3027]	6465	[7208, 3409]
331	[637, 638]	2376	[1422, 2681]	4421	[5212, 5265]	6466	[7209, 963]
332	[639, 640]	2377	[3668, 2718]	4422	[1042, 2775]	6467	[7210, 1179]
333	[641, 642]	2378	[3669, 3670]	4423	[5710, 5470]	6468	[7211, 917]
334	[643, 644]	2379	[427, 3101]	4424	[2701, 954]	6469	[7212, 5339]
335	[645, 646]	2380	[3671, 3672]	4425	[5711, 3821]	6470	[5651, 238]
336	[647, 648]	2381	[3673, 3007]	4426	[5712, 5713]	6471	[7213, 3621]
337	[649, 605]	2382	[3674, 1016]	4427	[2668, 5714]	6472	[7214, 2975]
338	[485, 650]	2383	[2733, 3164]	4428	[2892, 5715]	6473	[92, 1241]
339	[528, 651]	2384	[3675, 3676]	4429	[5716, 1101]	6474	[2850, 3062]
340	[652, 653]	2385	[3677, 3678]	4430	[5717, 3444]	6475	[3694, 3475]
341	[654, 655]	2386	[3679, 3680]	4431	[5718, 1434]	6476	[7215, 82]

342	[155, 656]	2387	[3681, 3682]	4432	[5719, 3825]	6477	[7216, 1008]
343	[657, 481]	2388	[3134, 109]	4433	[2904, 5720]	6478	[7217, 2639]
344	[658, 607]	2389	[3546, 3683]	4434	[5548, 2818]	6479	[7218, 289]
345	[659, 660]	2390	[3392, 1484]	4435	[5721, 3804]	6480	[5481, 351]
346	[661, 662]	2391	[3684, 3685]	4436	[5722, 3669]	6481	[3389, 7219]
347	[663, 497]	2392	[3686, 1295]	4437	[5723, 2646]	6482	[3338, 3138]
348	[664, 665]	2393	[3687, 3688]	4438	[5724, 3072]	6483	[7220, 6158]
349	[666, 667]	2394	[3689, 3175]	4439	[1400, 5311]	6484	[7221, 5829]
350	[668, 669]	2395	[2997, 3690]	4440	[3496, 5725]	6485	[1175, 2707]
351	[670, 671]	2396	[3691, 3692]	4441	[5289, 3745]	6486	[7222, 3037]
352	[672, 673]	2397	[3693, 3694]	4442	[5726, 5544]	6487	[7223, 1372]
353	[515, 674]	2398	[3695, 3097]	4443	[5720, 5727]	6488	[7224, 71]
354	[675, 676]	2399	[2956, 3696]	4444	[5728, 3075]	6489	[3573, 3398]
355	[677, 678]	2400	[3697, 3398]	4445	[5729, 3103]	6490	[7225, 998]
356	[679, 680]	2401	[3698, 1241]	4446	[5462, 5404]	6491	[7226, 1252]
357	[681, 682]	2402	[2979, 1194]	4447	[5730, 1237]	6492	[7227, 19]
358	[683, 684]	2403	[3291, 2636]	4448	[5731, 3597]	6493	[7228, 3568]
359	[685, 58]	2404	[3699, 3229]	4449	[5732, 2705]	6494	[7229, 68]
360	[686, 687]	2405	[3700, 849]	4450	[64, 1328]	6495	[287, 863]
361	[688, 689]	2406	[3701, 931]	4451	[5733, 3272]	6496	[3790, 5827]
362	[690, 691]	2407	[3702, 3703]	4452	[3553, 3484]	6497	[7230, 5343]
363	[692, 466]	2408	[3696, 3704]	4453	[3537, 3185]	6498	[5427, 1112]
364	[693, 694]	2409	[2727, 3705]	4454	[5734, 2592]	6499	[7231, 3842]
365	[695, 696]	2410	[3706, 3707]	4455	[5735, 5736]	6500	[7232, 5510]
366	[697, 698]	2411	[1176, 1419]	4456	[5737, 3685]	6501	[7233, 5590]
367	[699, 700]	2412	[3708, 1520]	4457	[5738, 5739]	6502	[7234, 2884]
368	[534, 701]	2413	[3709, 2998]	4458	[1458, 2753]	6503	[7235, 3186]
369	[702, 703]	2414	[3710, 1138]	4459	[3745, 3444]	6504	[3170, 2619]
370	[704, 679]	2415	[3711, 3712]	4460	[2809, 5740]	6505	[1368, 3678]
371	[705, 681]	2416	[3713, 3691]	4461	[3231, 1010]	6506	[7236, 3826]
372	[706, 707]	2417	[3714, 3715]	4462	[1518, 3824]	6507	[2618, 5396]
373	[708, 709]	2418	[3716, 2865]	4463	[1044, 5741]	6508	[7237, 874]
374	[710, 711]	2419	[3717, 1308]	4464	[5742, 5743]	6509	[7238, 381]
375	[712, 713]	2420	[3718, 915]	4465	[5744, 2561]	6510	[7239, 1501]
376	[714, 715]	2421	[2984, 3719]	4466	[3319, 912]	6511	[7240, 3005]
377	[716, 717]	2422	[3720, 3446]	4467	[3330, 102]	6512	[5786, 987]
378	[718, 719]	2423	[1048, 3721]	4468	[5745, 5746]	6513	[3742, 5800]
379	[720, 473]	2424	[3722, 3723]	4469	[5747, 5748]	6514	[7241, 1105]
380	[721, 722]	2425	[3724, 3725]	4470	[2650, 5749]	6515	[3009, 3148]
381	[723, 724]	2426	[941, 3086]	4471	[3795, 3820]	6516	[7242, 18]
382	[725, 726]	2427	[3726, 3727]	4472	[5750, 938]	6517	[7243, 2744]
383	[727, 728]	2428	[3728, 951]	4473	[5751, 1276]	6518	[1120, 1049]
384	[729, 730]	2429	[2662, 3729]	4474	[5743, 5269]	6519	[1314, 3139]
385	[731, 732]	2430	[3730, 3412]	4475	[5752, 5753]	6520	[3615, 3411]

386	[733, 734]	2431	[3731, 3402]	4476	[5754, 3365]	6521	[3393, 5541]
387	[735, 736]	2432	[929, 3732]	4477	[1479, 5755]	6522	[7244, 1118]
388	[737, 738]	2433	[3733, 2948]	4478	[2951, 3725]	6523	[2854, 5938]
389	[739, 740]	2434	[2908, 3037]	4479	[5756, 235]	6524	[7245, 1513]
390	[741, 742]	2435	[3734, 3391]	4480	[5612, 1478]	6525	[1050, 2802]
391	[743, 744]	2436	[3443, 3735]	4481	[5757, 2611]	6526	[7246, 7247]
392	[230, 745]	2437	[3736, 3737]	4482	[5199, 926]	6527	[7248, 1034]
393	[746, 747]	2438	[3738, 1026]	4483	[5758, 3804]	6528	[7249, 896]
394	[748, 749]	2439	[3739, 3740]	4484	[5759, 2812]	6529	[7138, 3168]
395	[750, 608]	2440	[3741, 3742]	4485	[5760, 3820]	6530	[7250, 308]
396	[751, 752]	2441	[2606, 3743]	4486	[5761, 3624]	6531	[3721, 7122]
397	[753, 754]	2442	[425, 2665]	4487	[5762, 5195]	6532	[7251, 2710]
398	[755, 756]	2443	[3744, 3745]	4488	[5763, 85]	6533	[7252, 3690]
399	[757, 758]	2444	[3746, 3747]	4489	[5764, 5762]	6534	[7253, 5194]
400	[613, 759]	2445	[3225, 3748]	4490	[3289, 2744]	6535	[7254, 7107]
401	[220, 14]	2446	[888, 1212]	4491	[5686, 3582]	6536	[3441, 5762]
402	[760, 761]	2447	[2999, 3749]	4492	[5765, 2974]	6537	[7255, 5614]
403	[762, 763]	2448	[1256, 1239]	4493	[5766, 5739]	6538	[7256, 3140]
404	[764, 208]	2449	[3750, 3207]	4494	[5767, 3264]	6539	[7257, 5714]
405	[765, 766]	2450	[3751, 1203]	4495	[1102, 5768]	6540	[7258, 1447]
406	[127, 767]	2451	[3752, 3753]	4496	[5753, 1471]	6541	[7259, 259]
407	[768, 604]	2452	[3635, 3754]	4497	[1452, 2931]	6542	[7260, 1341]
408	[769, 770]	2453	[3755, 1027]	4498	[5769, 1259]	6543	[7261, 236]
409	[771, 772]	2454	[3756, 3757]	4499	[5770, 1450]	6544	[7262, 397]
410	[773, 774]	2455	[3509, 3758]	4500	[346, 974]	6545	[7263, 867]
411	[775, 776]	2456	[3328, 3681]	4501	[5771, 5772]	6546	[7264, 2682]
412	[777, 778]	2457	[3759, 2902]	4502	[5773, 901]	6547	[5902, 295]
413	[779, 780]	2458	[3760, 3338]	4503	[5774, 872]	6548	[3748, 3558]
414	[137, 781]	2459	[3761, 3762]	4504	[5775, 922]	6549	[7265, 3786]
415	[782, 783]	2460	[2738, 3529]	4505	[3565, 5389]	6550	[2559, 5942]
416	[784, 785]	2461	[2986, 2972]	4506	[5776, 2851]	6551	[5454, 3107]
417	[786, 787]	2462	[1464, 2908]	4507	[5777, 2941]	6552	[2887, 3635]
418	[788, 789]	2463	[3763, 3764]	4508	[5778, 1006]	6553	[5725, 5901]
419	[790, 791]	2464	[3215, 3765]	4509	[5779, 3670]	6554	[7266, 2932]
420	[792, 793]	2465	[3766, 3386]	4510	[5780, 3321]	6555	[7267, 2746]
421	[794, 795]	2466	[3767, 2728]	4511	[1514, 5516]	6556	[7268, 6133]
422	[796, 168]	2467	[395, 3768]	4512	[5781, 3636]	6557	[3821, 3330]
423	[797, 798]	2468	[3769, 1086]	4513	[5285, 3632]	6558	[7269, 6232]
424	[799, 800]	2469	[3770, 3771]	4514	[5608, 5782]	6559	[7270, 3021]
425	[801, 802]	2470	[1035, 1036]	4515	[3121, 5783]	6560	[7271, 6155]
426	[803, 804]	2471	[3772, 3382]	4516	[5784, 5785]	6561	[1382, 5885]
427	[805, 806]	2472	[3140, 1064]	4517	[3112, 5459]	6562	[7272, 3206]
428	[807, 808]	2473	[3773, 894]	4518	[5684, 5244]	6563	[7273, 993]
429	[809, 810]	2474	[3774, 1315]	4519	[5615, 5786]	6564	[7274, 5848]

430	[811, 812]	2475	[3775, 1441]	4520	[3115, 5585]	6565	[5614, 301]
431	[813, 814]	2476	[3776, 3777]	4521	[1083, 3114]	6566	[267, 2950]
432	[815, 816]	2477	[3778, 3779]	4522	[5787, 5584]	6567	[3765, 2851]
433	[817, 818]	2478	[3780, 3781]	4523	[5356, 3116]	6568	[70, 2658]
434	[819, 820]	2479	[3782, 257]	4524	[5788, 5789]	6569	[5796, 7275]
435	[821, 614]	2480	[3783, 3784]	4525	[5790, 3742]	6570	[7276, 5438]
436	[822, 823]	2481	[1031, 3785]	4526	[301, 3125]	6571	[7277, 6067]
437	[722, 480]	2482	[3232, 1233]	4527	[1335, 5791]	6572	[260, 1228]
438	[824, 825]	2483	[3786, 296]	4528	[3678, 5565]	6573	[3081, 5308]
439	[826, 748]	2484	[3787, 3260]	4529	[5792, 1070]	6574	[5390, 3381]
440	[827, 598]	2485	[3788, 3789]	4530	[5793, 3132]	6575	[7278, 6264]
441	[828, 829]	2486	[860, 3790]	4531	[2817, 1437]	6576	[7279, 942]
442	[830, 533]	2487	[3791, 3142]	4532	[5794, 1442]	6577	[7280, 2550]
443	[831, 832]	2488	[3792, 3793]	4533	[5795, 2980]	6578	[7281, 5429]
444	[833, 834]	2489	[3794, 3795]	4534	[3762, 5796]	6579	[3841, 5926]
445	[835, 836]	2490	[3796, 3797]	4535	[5797, 1025]	6580	[7282, 5327]
446	[165, 837]	2491	[3798, 3799]	4536	[2977, 2597]	6581	[7283, 6012]
447	[838, 48]	2492	[3800, 3801]	4537	[5798, 1387]	6582	[5837, 2743]
448	[461, 839]	2493	[3802, 3403]	4538	[5799, 3484]	6583	[7284, 1325]
449	[840, 841]	2494	[3803, 440]	4539	[5800, 5801]	6584	[7285, 6240]
450	[842, 843]	2495	[3804, 3805]	4540	[5593, 3150]	6585	[7286, 5348]
451	[844, 845]	2496	[3806, 3807]	4541	[3143, 5802]	6586	[7287, 3346]
452	[846, 847]	2497	[2910, 3808]	4542	[5803, 438]	6587	[7288, 2813]
453	[436, 319]	2498	[3809, 2722]	4543	[3105, 998]	6588	[6124, 3596]
454	[848, 849]	2499	[3810, 2807]	4544	[5804, 5750]	6589	[7289, 3300]
455	[850, 95]	2500	[3811, 3799]	4545	[5805, 2770]	6590	[7290, 352]
456	[295, 851]	2501	[3812, 1466]	4546	[3493, 1290]	6591	[7291, 2581]
457	[852, 853]	2502	[3813, 852]	4547	[5806, 3071]	6592	[7292, 351]
458	[854, 855]	2503	[3707, 2592]	4548	[5807, 1521]	6593	[1142, 2576]
459	[856, 857]	2504	[3379, 3814]	4549	[5808, 2830]	6594	[7293, 3038]
460	[858, 859]	2505	[3815, 3190]	4550	[5809, 5715]	6595	[3528, 5454]
461	[415, 860]	2506	[3816, 3817]	4551	[5810, 5811]	6596	[7294, 3116]
462	[861, 862]	2507	[3818, 116]	4552	[5812, 2873]	6597	[3333, 6093]
463	[863, 864]	2508	[3819, 3638]	4553	[5813, 3342]	6598	[5727, 3561]
464	[865, 866]	2509	[3820, 1315]	4554	[5814, 5486]	6599	[7295, 3813]
465	[867, 868]	2510	[1336, 3821]	4555	[3835, 275]	6600	[7296, 2599]
466	[869, 870]	2511	[3346, 2945]	4556	[3067, 5807]	6601	[7297, 7275]
467	[871, 872]	2512	[3822, 3070]	4557	[5815, 338]	6602	[6221, 5590]
468	[873, 874]	2513	[908, 2639]	4558	[5816, 2963]	6603	[3155, 1323]
469	[875, 876]	2514	[3823, 3209]	4559	[5817, 3468]	6604	[7298, 3790]
470	[877, 878]	2515	[3824, 3446]	4560	[5818, 3625]	6605	[7299, 5641]
471	[879, 880]	2516	[3825, 3826]	4561	[5819, 3112]	6606	[7300, 2924]
472	[881, 882]	2517	[3471, 3827]	4562	[2783, 1337]	6607	[7301, 7154]
473	[883, 884]	2518	[1016, 3828]	4563	[5820, 3269]	6608	[7247, 6001]

474	[885, 886]	2519	[3829, 3205]	4564	[5821, 1039]	6609	[2583, 3468]
475	[887, 888]	2520	[2940, 3830]	4565	[5822, 1251]	6610	[2607, 5635]
476	[889, 890]	2521	[3831, 2852]	4566	[5823, 3415]	6611	[7302, 1317]
477	[891, 892]	2522	[3832, 3341]	4567	[5824, 2911]	6612	[7303, 5311]
478	[893, 894]	2523	[3833, 3203]	4568	[5825, 3615]	6613	[5592, 7247]
479	[895, 896]	2524	[904, 3627]	4569	[5826, 5827]	6614	[5459, 5784]
480	[897, 898]	2525	[3834, 2658]	4570	[5828, 2973]	6615	[5591, 5790]
481	[899, 900]	2526	[3598, 907]	4571	[3312, 5829]	6616	[7304, 447]
482	[901, 902]	2527	[2569, 3587]	4572	[1346, 5526]	6617	[5640, 2618]
483	[903, 904]	2528	[98, 3835]	4573	[5830, 2987]	6618	[7305, 1130]
484	[905, 906]	2529	[3836, 1108]	4574	[5831, 2768]	6619	[7306, 3010]
485	[907, 908]	2530	[3837, 3838]	4575	[5832, 1184]	6620	[7307, 2663]
486	[909, 910]	2531	[3839, 2692]	4576	[5833, 5585]	6621	[7308, 6221]
487	[911, 912]	2532	[3840, 3841]	4577	[5834, 5286]	6622	[7309, 1354]
488	[913, 914]	2533	[3842, 3374]	4578	[5835, 2922]	6623	[1272, 1505]
489	[915, 916]	2534	[985, 3716]	4579	[5333, 969]	6624	[7310, 5268]
490	[917, 918]	2535	[3676, 3843]	4580	[5836, 5837]	6625	[7311, 1125]
491	[919, 920]	2536	[2694, 1022]	4581	[5838, 1069]	6626	[7312, 2849]
492	[921, 337]	2537	[3844, 3845]	4582	[5839, 3166]	6627	[2894, 1378]
493	[922, 923]	2538	[3846, 1167]	4583	[1018, 915]	6628	[1350, 3161]
494	[924, 925]	2539	[3847, 3836]	4584	[5840, 5841]	6629	[7313, 3233]
495	[926, 927]	2540	[3848, 3849]	4585	[5842, 3197]	6630	[22, 5510]
496	[928, 929]	2541	[3850, 1786]	4586	[94, 2844]	6631	[5909, 1320]
497	[930, 931]	2542	[3851, 1676]	4587	[5843, 20]	6632	[7314, 3631]
498	[932, 933]	2543	[2272, 716]	4588	[847, 1237]	6633	[7315, 1229]
499	[934, 935]	2544	[3852, 723]	4589	[5844, 1143]	6634	[7316, 3232]
500	[936, 937]	2545	[3853, 708]	4590	[5845, 953]	6635	[7317, 1304]
501	[938, 939]	2546	[2123, 3854]	4591	[5846, 5574]	6636	[7318, 1140]
502	[940, 941]	2547	[3855, 3856]	4592	[5847, 5848]	6637	[7319, 1062]
503	[942, 943]	2548	[3857, 1715]	4593	[5849, 5208]	6638	[7320, 983]
504	[352, 944]	2549	[3858, 3859]	4594	[2647, 5850]	6639	[5317, 3042]
505	[945, 946]	2550	[3860, 2502]	4595	[5851, 5619]	6640	[7321, 976]
506	[947, 948]	2551	[3861, 42]	4596	[3110, 343]	6641	[1386, 5316]
507	[318, 949]	2552	[3862, 3863]	4597	[1477, 5852]	6642	[7322, 3461]
508	[950, 951]	2553	[3864, 620]	4598	[5853, 3485]	6643	[5695, 3546]
509	[952, 953]	2554	[3865, 3866]	4599	[5854, 3554]	6644	[7323, 2802]
510	[954, 955]	2555	[829, 742]	4600	[5855, 5856]	6645	[2604, 5920]
511	[956, 957]	2556	[3867, 3868]	4601	[3322, 2998]	6646	[7324, 5320]
512	[958, 959]	2557	[3869, 543]	4602	[5857, 110]	6647	[7325, 3098]
513	[960, 961]	2558	[1826, 2134]	4603	[5252, 5858]	6648	[111, 1115]
514	[962, 963]	2559	[3870, 2384]	4604	[3403, 5429]	6649	[3758, 5302]
515	[964, 965]	2560	[3871, 1581]	4605	[5859, 1273]	6650	[7326, 3843]
516	[966, 418]	2561	[3872, 616]	4606	[5860, 5386]	6651	[5858, 5811]
517	[90, 967]	2562	[3873, 3874]	4607	[5571, 5712]	6652	[7327, 377]

518	[912, 968]	2563	[3875, 3876]	4608	[5861, 3379]	6653	[933, 90]
519	[969, 970]	2564	[3877, 1737]	4609	[1012, 3001]	6654	[7328, 2598]
520	[971, 972]	2565	[3878, 3879]	4610	[5862, 3455]	6655	[2571, 3813]
521	[973, 974]	2566	[2434, 1972]	4611	[5863, 3500]	6656	[7329, 3521]
522	[975, 976]	2567	[1549, 509]	4612	[3624, 5450]	6657	[7330, 3609]
523	[977, 978]	2568	[3880, 3881]	4613	[5864, 5865]	6658	[7331, 7332]
524	[943, 979]	2569	[3882, 553]	4614	[5292, 913]	6659	[7333, 3023]
525	[980, 981]	2570	[3883, 2246]	4615	[3729, 5866]	6660	[7334, 2594]
526	[982, 983]	2571	[3884, 2482]	4616	[5867, 5444]	6661	[104, 1002]
527	[984, 985]	2572	[3885, 3886]	4617	[5868, 1519]	6662	[7335, 5721]
528	[986, 987]	2573	[3887, 3888]	4618	[900, 1300]	6663	[2567, 6086]
529	[988, 989]	2574	[3889, 2487]	4619	[5869, 1481]	6664	[7336, 2804]
530	[990, 991]	2575	[3890, 3891]	4620	[5870, 5871]	6665	[7337, 3187]
531	[992, 993]	2576	[3892, 2331]	4621	[5872, 2691]	6666	[7338, 1307]
532	[994, 995]	2577	[3893, 38]	4622	[1390, 5873]	6667	[2990, 5640]
533	[996, 997]	2578	[3894, 1848]	4623	[5874, 1197]	6668	[7339, 7219]
534	[998, 999]	2579	[2405, 458]	4624	[5620, 5875]	6669	[7340, 6057]
535	[1000, 1001]	2580	[2370, 3895]	4625	[5876, 1061]	6670	[7341, 5393]
536	[1002, 1003]	2581	[2215, 662]	4626	[2616, 2874]	6671	[1149, 5514]
537	[1004, 1005]	2582	[576, 3896]	4627	[5877, 3110]	6672	[7342, 6010]
538	[1006, 1007]	2583	[3897, 3898]	4628	[3310, 1341]	6673	[7343, 1183]
539	[1008, 1009]	2584	[3899, 191]	4629	[5878, 3347]	6674	[7344, 2806]
540	[1010, 985]	2585	[736, 1663]	4630	[5601, 443]	6675	[7345, 5787]
541	[1011, 1012]	2586	[3900, 3901]	4631	[5879, 1113]	6676	[7346, 1110]
542	[1013, 1014]	2587	[3902, 3903]	4632	[5880, 5633]	6677	[7347, 2688]
543	[1015, 1016]	2588	[3904, 3905]	4633	[1081, 3299]	6678	[7348, 1133]
544	[1017, 1018]	2589	[3906, 1919]	4634	[5881, 895]	6679	[3602, 5841]
545	[1019, 1020]	2590	[161, 3907]	4635	[5882, 1255]	6680	[7349, 2818]
546	[1021, 1022]	2591	[3908, 2426]	4636	[5883, 3367]	6681	[2839, 1387]
547	[1023, 1024]	2592	[3909, 3910]	4637	[3530, 3476]	6682	[3127, 3248]
548	[1025, 1026]	2593	[3911, 2010]	4638	[5884, 5885]	6683	[7350, 5671]
549	[1027, 1028]	2594	[2331, 1908]	4639	[5886, 3682]	6684	[3113, 2589]
550	[1029, 1030]	2595	[841, 824]	4640	[5887, 5439]	6685	[7351, 3063]
551	[944, 1031]	2596	[3912, 826]	4641	[5344, 5324]	6686	[7352, 2857]
552	[1032, 1033]	2597	[3913, 3914]	4642	[5888, 2696]	6687	[7353, 5394]
553	[1034, 1035]	2598	[2248, 551]	4643	[5239, 2957]	6688	[7354, 3108]
554	[1036, 1037]	2599	[3915, 3916]	4644	[5889, 2808]	6689	[7355, 3067]
555	[1038, 292]	2600	[1778, 714]	4645	[5890, 5807]	6690	[7356, 3549]
556	[1039, 1040]	2601	[3917, 3918]	4646	[5891, 2812]	6691	[7357, 3704]
557	[1041, 1042]	2602	[3919, 563]	4647	[419, 5892]	6692	[7358, 2990]
558	[1043, 1044]	2603	[3920, 3921]	4648	[5893, 5368]	6693	[6061, 5641]
559	[878, 1045]	2604	[754, 2272]	4649	[5894, 5895]	6694	[7359, 5692]
560	[880, 1046]	2605	[3922, 3923]	4650	[5896, 5897]	6695	[7360, 2877]
561	[1047, 1048]	2606	[3924, 3925]	4651	[5448, 1460]	6696	[7361, 2865]

562	[1049, 1050]	2607	[3926, 229]	4652	[5898, 3419]	6697	[7362, 882]
563	[1051, 1052]	2608	[3927, 3928]	4653	[5899, 5713]	6698	[3463, 2765]
564	[1053, 1054]	2609	[3929, 3930]	4654	[2916, 5788]	6699	[7363, 3082]
565	[1055, 1056]	2610	[3931, 3932]	4655	[2973, 254]	6700	[7364, 2547]
566	[1057, 1058]	2611	[3933, 1877]	4656	[5900, 5901]	6701	[5956, 2868]
567	[1059, 1060]	2612	[3934, 2029]	4657	[3421, 5902]	6702	[7365, 374]
568	[1061, 1062]	2613	[3935, 2466]	4658	[2598, 2739]	6703	[3157, 5222]
569	[1063, 1064]	2614	[1559, 3936]	4659	[2729, 1462]	6704	[7366, 1499]
570	[1065, 1066]	2615	[3937, 3938]	4660	[5903, 244]	6705	[7367, 1424]
571	[1067, 1068]	2616	[2297, 3939]	4661	[5904, 1320]	6706	[7368, 6124]
572	[1069, 3]	2617	[3940, 3941]	4662	[2864, 5345]	6707	[5529, 5532]
573	[1070, 1071]	2618	[3942, 3943]	4663	[5905, 1083]	6708	[3475, 6133]
574	[1072, 1073]	2619	[3944, 3945]	4664	[5906, 1046]	6709	[7369, 1193]
575	[1074, 1075]	2620	[2233, 3946]	4665	[3047, 5282]	6710	[314, 21]
576	[1076, 1077]	2621	[2440, 3947]	4666	[5907, 2870]	6711	[5232, 5490]
577	[1078, 1079]	2622	[3948, 1997]	4667	[5908, 5909]	6712	[5208, 5543]
578	[1080, 1081]	2623	[2397, 3949]	4668	[3210, 1495]	6713	[3138, 5721]
579	[1082, 1083]	2624	[2399, 1905]	4669	[5910, 5911]	6714	[7370, 3109]
580	[1084, 1085]	2625	[2522, 3950]	4670	[5912, 5913]	6715	[2602, 292]
581	[327, 1086]	2626	[3951, 3952]	4671	[5914, 1293]	6716	[937, 5232]
582	[1087, 1088]	2627	[3953, 3954]	4672	[5915, 3017]	6717	[7371, 3732]
583	[1089, 1090]	2628	[3955, 3936]	4673	[3383, 3105]	6718	[5961, 5979]
584	[1091, 1092]	2629	[780, 2532]	4674	[3308, 3030]	6719	[3719, 355]
585	[1093, 1094]	2630	[3956, 3957]	4675	[5916, 3758]	6720	[2754, 417]
586	[1095, 1096]	2631	[3958, 641]	4676	[5917, 393]	6721	[7372, 3325]
587	[1097, 1098]	2632	[3959, 791]	4677	[5918, 5919]	6722	[3670, 2649]
588	[1099, 1100]	2633	[3960, 3961]	4678	[5920, 3170]	6723	[7373, 2764]
589	[1101, 1102]	2634	[3962, 1977]	4679	[1466, 3623]	6724	[7374, 982]
590	[1103, 1104]	2635	[2301, 3963]	4680	[5921, 249]	6725	[6264, 5403]
591	[1105, 1106]	2636	[3964, 2266]	4681	[3777, 1452]	6726	[6052, 3658]
592	[1107, 1108]	2637	[3965, 1954]	4682	[5922, 2743]	6727	[68, 2728]
593	[1109, 396]	2638	[3966, 3932]	4683	[3704, 5471]	6728	[7375, 2677]
594	[1110, 1111]	2639	[3967, 3968]	4684	[972, 3691]	6729	[5569, 1068]
595	[1112, 1113]	2640	[618, 3969]	4685	[5923, 1213]	6730	[7376, 3705]
596	[1114, 1115]	2641	[3970, 2241]	4686	[5924, 5782]	6731	[6155, 2914]
597	[1116, 1117]	2642	[3968, 3971]	4687	[5925, 5926]	6732	[7377, 3735]
598	[1118, 869]	2643	[3972, 3973]	4688	[5927, 5255]	6733	[7378, 5675]
599	[1119, 1120]	2644	[2506, 3974]	4689	[2770, 3764]	6734	[7379, 3364]
600	[1121, 1122]	2645	[3975, 2396]	4690	[5928, 2630]	6735	[2981, 2749]
601	[1123, 312]	2646	[548, 2529]	4691	[5929, 1291]	6736	[7380, 3117]
602	[1124, 1125]	2647	[452, 3976]	4692	[5930, 5852]	6737	[7381, 3171]
603	[1126, 933]	2648	[455, 838]	4693	[5931, 875]	6738	[7382, 3473]
604	[1127, 1128]	2649	[3977, 2256]	4694	[5932, 1284]	6739	[2826, 3192]
605	[1129, 1130]	2650	[3978, 2492]	4695	[5933, 3675]	6740	[7383, 7138]

606	[1131, 1132]	2651	[3979, 3920]	4696	[5934, 1435]	6741	[7384, 3508]
607	[1133, 1134]	2652	[3980, 3981]	4697	[5935, 5540]	6742	[1338, 6262]
608	[1135, 1136]	2653	[3982, 3983]	4698	[5901, 3490]	6743	[7385, 329]
609	[1137, 1138]	2654	[2333, 475]	4699	[5936, 1362]	6744	[7386, 1045]
610	[1139, 1140]	2655	[3984, 2217]	4700	[5937, 5468]	6745	[3596, 1454]
611	[1141, 1142]	2656	[1596, 1616]	4701	[5938, 3593]	6746	[7387, 5292]
612	[1143, 1144]	2657	[3985, 1985]	4702	[976, 5239]	6747	[5811, 3029]
613	[1145, 267]	2658	[3986, 2479]	4703	[5939, 1112]	6748	[5588, 1474]
614	[1146, 1147]	2659	[3987, 816]	4704	[5940, 1395]	6749	[7388, 1370]
615	[1148, 1149]	2660	[3988, 3989]	4705	[5941, 5942]	6750	[2585, 1142]
616	[1150, 1118]	2661	[3990, 1689]	4706	[5943, 5875]	6751	[7389, 3120]
617	[1151, 1152]	2662	[1611, 3991]	4707	[3342, 5737]	6752	[7390, 5556]
618	[1153, 1154]	2663	[2479, 130]	4708	[5852, 3187]	6753	[3206, 3793]
619	[1155, 350]	2664	[3989, 1687]	4709	[3807, 3597]	6754	[1115, 64]
620	[1156, 1157]	2665	[3992, 228]	4710	[5944, 927]	6755	[3381, 118]
621	[1158, 1159]	2666	[3993, 1694]	4711	[2644, 3189]	6756	[7391, 5938]
622	[1160, 1024]	2667	[3994, 224]	4712	[5945, 2929]	6757	[7392, 2841]
623	[1161, 1162]	2668	[3995, 3996]	4713	[5875, 3513]	6758	[7393, 2669]
624	[1163, 1164]	2669	[2343, 3997]	4714	[5946, 3476]	6759	[7394, 406]
625	[1165, 356]	2670	[767, 2340]	4715	[5947, 5851]	6760	[7395, 3731]
626	[1166, 315]	2671	[2497, 3998]	4716	[5948, 952]	6761	[3125, 3439]
627	[1167, 1168]	2672	[742, 3999]	4717	[5949, 923]	6762	[2896, 5531]
628	[1169, 1170]	2673	[4000, 4001]	4718	[5950, 5279]	6763	[3119, 5577]
629	[1171, 87]	2674	[4002, 2518]	4719	[5951, 1494]	6764	[2663, 5443]
630	[1172, 1173]	2675	[4003, 628]	4720	[5952, 5195]	6765	[7396, 5581]
631	[1174, 1175]	2676	[4004, 2486]	4721	[5953, 995]	6766	[3740, 6240]
632	[1014, 1176]	2677	[4005, 4006]	4722	[5954, 864]	6767	[7397, 437]
633	[1177, 1178]	2678	[171, 4007]	4723	[5955, 3199]	6768	[7398, 3302]
634	[1179, 1180]	2679	[4008, 3923]	4724	[3682, 2780]	6769	[7399, 5397]
635	[1181, 1182]	2680	[4009, 2284]	4725	[1280, 5956]	6770	[6205, 3452]
636	[1183, 1184]	2681	[4010, 2250]	4726	[2866, 5219]	6771	[7400, 3404]
637	[1185, 1186]	2682	[4011, 1648]	4727	[995, 1360]	6772	[7401, 2790]
638	[1026, 1187]	2683	[2401, 2127]	4728	[2747, 1091]	6773	[7402, 1218]
639	[1188, 1189]	2684	[4012, 622]	4729	[5957, 2650]	6774	[2785, 5743]
640	[1190, 1191]	2685	[4013, 2408]	4730	[5958, 3576]	6775	[7403, 3313]
641	[1192, 1193]	2686	[4014, 4015]	4731	[5959, 76]	6776	[96, 3014]
642	[1194, 1195]	2687	[185, 4016]	4732	[5960, 5961]	6777	[7404, 1280]
643	[1196, 418]	2688	[843, 768]	4733	[5962, 5963]	6778	[7405, 2681]
644	[1197, 1198]	2689	[4017, 4018]	4734	[5964, 257]	6779	[7406, 3151]
645	[1199, 1200]	2690	[4019, 2511]	4735	[5965, 3719]	6780	[882, 5375]
646	[1201, 1202]	2691	[4020, 4021]	4736	[5966, 277]	6781	[7407, 2730]
647	[1108, 1203]	2692	[4022, 2357]	4737	[86, 2677]	6782	[7408, 3373]
648	[1204, 1205]	2693	[4023, 1594]	4738	[5253, 5692]	6783	[7409, 3118]
649	[1206, 1207]	2694	[696, 2194]	4739	[5967, 5968]	6784	[7410, 5584]

650	[1208, 1209]	2695	[4024, 2399]	4740	[3705, 3736]	6785	[5768, 862]
651	[1210, 1211]	2696	[4025, 609]	4741	[5969, 5233]	6786	[7411, 5324]
652	[1212, 1213]	2697	[4026, 4027]	4742	[3021, 243]	6787	[7412, 914]
653	[1214, 422]	2698	[4028, 4029]	4743	[3350, 5307]	6788	[7413, 5914]
654	[113, 1215]	2699	[4030, 4031]	4744	[1134, 3388]	6789	[7414, 2845]
655	[399, 1216]	2700	[4032, 4033]	4745	[5970, 3119]	6790	[3077, 1271]
656	[303, 989]	2701	[2169, 4034]	4746	[5971, 3548]	6791	[2768, 2702]
657	[1217, 1218]	2702	[4035, 4036]	4747	[3799, 3404]	6792	[7415, 3214]
658	[1219, 1220]	2703	[4037, 4038]	4748	[5972, 4]	6793	[3095, 2634]
659	[1221, 1222]	2704	[151, 2456]	4749	[5856, 3633]	6794	[1117, 1149]
660	[1223, 1224]	2705	[4039, 4040]	4750	[5973, 2796]	6795	[7416, 2661]
661	[375, 1225]	2706	[4041, 2466]	4751	[3355, 1082]	6796	[7417, 5999]
662	[1226, 1227]	2707	[4042, 4043]	4752	[3132, 3111]	6797	[7418, 1239]
663	[1228, 1229]	2708	[1809, 1739]	4753	[5974, 5688]	6798	[7419, 1417]
664	[1230, 1231]	2709	[4044, 2147]	4754	[5369, 2660]	6799	[3533, 1429]
665	[1187, 1231]	2710	[620, 1672]	4755	[3186, 2953]	6800	[5897, 6138]
666	[1232, 1103]	2711	[4045, 4046]	4756	[3601, 5398]	6801	[5320, 893]
667	[1233, 1234]	2712	[2129, 2021]	4757	[5975, 382]	6802	[7420, 2989]
668	[1235, 1236]	2713	[4047, 158]	4758	[5976, 1378]	6803	[5693, 5392]
669	[1237, 1238]	2714	[4048, 1843]	4759	[3485, 5665]	6804	[7421, 3208]
670	[1239, 1240]	2715	[4049, 4050]	4760	[5785, 5793]	6805	[7422, 323]
671	[1241, 1242]	2716	[4051, 1867]	4761	[5871, 5787]	6806	[3164, 3703]
672	[1243, 1244]	2717	[4052, 2289]	4762	[5977, 80]	6807	[1494, 259]
673	[1245, 1167]	2718	[4053, 3973]	4763	[5978, 3274]	6808	[1259, 5897]
674	[1246, 1060]	2719	[4054, 3909]	4764	[5979, 1375]	6809	[7423, 2729]
675	[1247, 1191]	2720	[4055, 4056]	4765	[5567, 5980]	6810	[5535, 5648]
676	[1248, 1009]	2721	[4057, 2524]	4766	[3585, 2704]	6811	[7424, 5851]
677	[1249, 1250]	2722	[4058, 4059]	4767	[5981, 5283]	6812	[7425, 422]
678	[1251, 1252]	2723	[2270, 2273]	4768	[5982, 1051]	6813	[7426, 1340]
679	[1253, 264]	2724	[4060, 4061]	4769	[5983, 5984]	6814	[7427, 962]
680	[250, 1254]	2725	[4062, 4063]	4770	[5985, 5986]	6815	[2581, 3231]
681	[1255, 1256]	2726	[4064, 4065]	4771	[5987, 3567]	6816	[7428, 7168]
682	[946, 1257]	2727	[1954, 1880]	4772	[1173, 3675]	6817	[7429, 5317]
683	[1258, 1259]	2728	[4066, 2152]	4773	[5988, 3728]	6818	[3607, 956]
684	[1260, 1261]	2729	[550, 4067]	4774	[5989, 3114]	6819	[7430, 5686]
685	[1262, 903]	2730	[4068, 4069]	4775	[3412, 5571]	6820	[7431, 3322]
686	[1263, 1264]	2731	[2511, 4070]	4776	[5990, 2951]	6821	[6001, 3258]
687	[1265, 1266]	2732	[4071, 4072]	4777	[5991, 2760]	6822	[5705, 3787]
688	[1267, 1268]	2733	[4073, 4074]	4778	[2638, 962]	6823	[949, 2795]
689	[252, 1269]	2734	[4075, 4076]	4779	[5992, 3235]	6824	[7432, 1104]
690	[1270, 1166]	2735	[4077, 638]	4780	[5993, 5316]	6825	[7433, 2695]
691	[1271, 1272]	2736	[4078, 4079]	4781	[5994, 2846]	6826	[7434, 6100]
692	[1273, 871]	2737	[4080, 1673]	4782	[5995, 1385]	6827	[7435, 3234]
693	[1274, 1275]	2738	[4081, 4082]	4783	[5996, 5253]	6828	[5411, 1122]

694	[1276, 1169]	2739	[4083, 135]	4784	[5997, 81]	6829	[7436, 3452]
695	[1277, 1278]	2740	[4084, 4085]	4785	[5998, 3472]	6830	[7151, 1103]
696	[1279, 1280]	2741	[4086, 4087]	4786	[5258, 5999]	6831	[6148, 2608]
697	[1281, 997]	2742	[4088, 525]	4787	[6000, 6001]	6832	[1096, 1393]
698	[1282, 348]	2743	[4089, 4090]	4788	[6002, 6003]	6833	[7437, 2775]
699	[1283, 1284]	2744	[4091, 4092]	4789	[6004, 5800]	6834	[5741, 1139]
700	[1285, 1286]	2745	[4093, 461]	4790	[6005, 5768]	6835	[1098, 7101]
701	[1287, 362]	2746	[4094, 2032]	4791	[2573, 2785]	6836	[3336, 3382]
702	[1288, 1289]	2747	[1547, 1852]	4792	[1356, 3017]	6837	[7438, 2671]
703	[1290, 1291]	2748	[4095, 4096]	4793	[2789, 3540]	6838	[5740, 3283]
704	[1292, 250]	2749	[4097, 1743]	4794	[6006, 3477]	6839	[7439, 958]
705	[1293, 946]	2750	[4098, 2440]	4795	[6007, 1168]	6840	[7440, 1136]
706	[1294, 419]	2751	[4099, 4100]	4796	[6008, 6009]	6841	[2541, 3568]
707	[1295, 1296]	2752	[4101, 4102]	4797	[3045, 6010]	6842	[7441, 3121]
708	[1297, 79]	2753	[1787, 4103]	4798	[978, 5298]	6843	[7442, 1257]
709	[1298, 71]	2754	[4104, 1657]	4799	[6011, 965]	6844	[7443, 3123]
710	[1299, 359]	2755	[4105, 514]	4800	[974, 6012]	6845	[344, 5210]
711	[1300, 1301]	2756	[4106, 2244]	4801	[293, 5985]	6846	[5892, 3605]
712	[1302, 1303]	2757	[4107, 1842]	4802	[6013, 1228]	6847	[7444, 3148]
713	[1304, 1305]	2758	[4108, 4109]	4803	[6014, 423]	6848	[1467, 3548]
714	[1306, 1307]	2759	[4110, 4111]	4804	[3757, 3467]	6849	[1431, 5457]
715	[1308, 1309]	2760	[4112, 4113]	4805	[1033, 1051]	6850	[7445, 6061]
716	[1310, 1311]	2761	[3888, 4033]	4806	[2630, 1402]	6851	[7446, 1198]
717	[1312, 885]	2762	[4114, 4115]	4807	[2736, 2901]	6852	[3753, 1056]
718	[1313, 1314]	2763	[4116, 4117]	4808	[6015, 2905]	6853	[7447, 2792]
719	[1315, 1316]	2764	[4118, 612]	4809	[6016, 258]	6854	[7448, 938]
720	[1317, 1318]	2765	[4119, 4120]	4810	[6017, 5403]	6855	[5314, 3286]
721	[1319, 897]	2766	[4121, 4122]	4811	[1455, 6018]	6856	[868, 899]
722	[1320, 1321]	2767	[4123, 4124]	4812	[1408, 5629]	6857	[6057, 334]
723	[1322, 1323]	2768	[2078, 4125]	4813	[6019, 1195]	6858	[7449, 1491]
724	[1324, 1325]	2769	[34, 4126]	4814	[5450, 3770]	6859	[6009, 3308]
725	[1326, 1327]	2770	[4127, 1835]	4815	[6020, 252]	6860	[7450, 3247]
726	[1328, 406]	2771	[4070, 505]	4816	[6021, 3221]	6861	[7451, 1031]
727	[1329, 1330]	2772	[4128, 678]	4817	[6022, 5328]	6862	[7452, 412]
728	[1331, 1332]	2773	[2527, 4129]	4818	[6023, 3372]	6863	[7453, 5873]
729	[1333, 448]	2774	[4130, 491]	4819	[6024, 5612]	6864	[7454, 1226]
730	[1334, 1335]	2775	[1847, 4095]	4820	[6025, 956]	6865	[2959, 3837]
731	[323, 1336]	2776	[499, 1723]	4821	[5561, 2689]	6866	[3375, 2752]
732	[1337, 1338]	2777	[4007, 4131]	4822	[6026, 3157]	6867	[1113, 3159]
733	[1339, 1340]	2778	[4132, 2023]	4823	[5506, 3630]	6868	[3204, 3193]
734	[1341, 1342]	2779	[1712, 4133]	4824	[6027, 3490]	6869	[7455, 3640]
735	[1168, 1343]	2780	[4134, 4087]	4825	[6028, 1337]	6870	[7456, 2601]
736	[1344, 1028]	2781	[4135, 4114]	4826	[6029, 3502]	6871	[7457, 1052]
737	[1345, 1346]	2782	[556, 4136]	4827	[3363, 5871]	6872	[6073, 322]

738	[1347, 1348]	2783	[4137, 572]	4828	[5291, 1175]	6873	[3100, 888]
739	[1349, 1350]	2784	[4138, 4139]	4829	[6030, 5250]	6874	[307, 6145]
740	[1351, 1352]	2785	[4140, 4141]	4830	[6031, 5265]	6875	[7458, 86]
741	[1353, 1354]	2786	[4142, 2002]	4831	[6032, 1465]	6876	[5278, 2733]
742	[1355, 1356]	2787	[2386, 1591]	4832	[6033, 1514]	6877	[1343, 2699]
743	[1357, 1358]	2788	[4143, 4144]	4833	[1215, 2643]	6878	[2761, 2928]
744	[1359, 1360]	2789	[4145, 1710]	4834	[6034, 5248]	6879	[7459, 273]
745	[1361, 1362]	2790	[58, 483]	4835	[6035, 5670]	6880	[7460, 1479]
746	[1363, 1364]	2791	[4146, 4147]	4836	[6036, 902]	6881	[2843, 3555]
747	[1365, 1366]	2792	[4148, 808]	4837	[6037, 3524]	6882	[7461, 67]
748	[1367, 1368]	2793	[4149, 2053]	4838	[5223, 2962]	6883	[7462, 3632]
749	[1369, 1370]	2794	[1796, 4150]	4839	[3027, 3061]	6884	[7463, 1511]
750	[1371, 1372]	2795	[4151, 4152]	4840	[6038, 2797]	6885	[1403, 390]
751	[1373, 1374]	2796	[4153, 4154]	4841	[6039, 5326]	6886	[7464, 5727]
752	[1375, 1376]	2797	[1621, 4155]	4842	[6040, 278]	6887	[7465, 331]
753	[1377, 848]	2798	[4156, 1630]	4843	[2611, 1246]	6888	[411, 403]
754	[1378, 1379]	2799	[4157, 4158]	4844	[6041, 3465]	6889	[7466, 3633]
755	[1380, 846]	2800	[1819, 2461]	4845	[6042, 1302]	6890	[7467, 2829]
756	[1381, 1382]	2801	[4159, 1893]	4846	[6043, 2844]	6891	[7468, 111]
757	[1383, 1384]	2802	[4160, 2102]	4847	[6044, 2773]	6892	[7469, 1331]
758	[1385, 1386]	2803	[1860, 4161]	4848	[6045, 3840]	6893	[7470, 2662]
759	[1387, 1388]	2804	[4162, 226]	4849	[6046, 3316]	6894	[7471, 5783]
760	[1389, 1390]	2805	[4163, 4164]	4850	[6047, 5553]	6895	[1424, 1079]
761	[1391, 1392]	2806	[4165, 4082]	4851	[6048, 1420]	6896	[7472, 276]
762	[1393, 1394]	2807	[1880, 1732]	4852	[5457, 1034]	6897	[7473, 5190]
763	[1395, 1396]	2808	[4166, 2029]	4853	[3419, 5963]	6898	[3467, 1129]
764	[1397, 1398]	2809	[4167, 1570]	4854	[6049, 1490]	6899	[7474, 2947]
765	[1399, 265]	2810	[4168, 4169]	4855	[2933, 3333]	6900	[7475, 3505]
766	[1252, 1400]	2811	[4170, 4171]	4856	[1058, 5921]	6901	[7476, 2825]
767	[248, 1401]	2812	[4172, 4173]	4857	[3358, 2940]	6902	[7477, 3544]
768	[1402, 1403]	2813	[4174, 1544]	4858	[6050, 3297]	6903	[7478, 2717]
769	[1404, 270]	2814	[4175, 4176]	4859	[2622, 1135]	6904	[7479, 3122]
770	[1405, 1406]	2815	[4177, 4178]	4860	[6051, 5222]	6905	[3423, 3246]
771	[1407, 1408]	2816	[2149, 1575]	4861	[3325, 6052]	6906	[7480, 363]
772	[1409, 1410]	2817	[4179, 4180]	4862	[6053, 1521]	6907	[7481, 5200]
773	[1411, 1157]	2818	[4181, 520]	4863	[6054, 378]	6908	[2721, 3142]
774	[1412, 1413]	2819	[4182, 1804]	4864	[6055, 105]	6909	[7482, 2686]
775	[1414, 1415]	2820	[4183, 4184]	4865	[3352, 5428]	6910	[7483, 1290]
776	[1416, 1417]	2821	[4185, 1698]	4866	[26, 5184]	6911	[5531, 5684]
777	[1418, 1419]	2822	[4186, 4187]	4867	[6056, 114]	6912	[2906, 3340]
778	[1420, 270]	2823	[4188, 4189]	4868	[3517, 6057]	6913	[3244, 5914]
779	[1421, 1422]	2824	[4190, 1746]	4869	[6058, 3218]	6914	[7484, 3374]
780	[1423, 1424]	2825	[4191, 4192]	4870	[6059, 5258]	6915	[7485, 1207]
781	[1425, 1426]	2826	[4193, 1883]	4871	[3200, 2849]	6916	[7486, 113]

782	[1427, 1428]	2827	[4194, 1603]	4872	[970, 5330]	6917	[430, 5366]
783	[1429, 1430]	2828	[4195, 4196]	4873	[3033, 5468]	6918	[5926, 2821]
784	[342, 1431]	2829	[1928, 4197]	4874	[1430, 2835]	6919	[7487, 319]
785	[1432, 930]	2830	[4198, 3939]	4875	[6060, 1503]	6920	[7488, 1235]
786	[1433, 1434]	2831	[4199, 4200]	4876	[1358, 5753]	6921	[2937, 3268]
787	[1435, 1251]	2832	[1845, 4201]	4877	[119, 5181]	6922	[7489, 2946]
788	[1436, 1437]	2833	[554, 2470]	4878	[3123, 6061]	6923	[1485, 7332]
789	[1438, 1181]	2834	[4202, 4203]	4879	[6062, 3538]	6924	[7490, 1446]
790	[892, 1439]	2835	[4204, 227]	4880	[6063, 3216]	6925	[1439, 1311]
791	[1440, 1441]	2836	[4205, 2379]	4881	[6064, 5441]	6926	[7491, 5428]
792	[1442, 1278]	2837	[4206, 4148]	4882	[6065, 885]	6927	[3038, 280]
793	[1443, 1444]	2838	[4207, 2010]	4883	[6066, 5390]	6928	[7492, 271]
794	[1445, 1202]	2839	[4208, 2353]	4884	[1311, 6067]	6929	[3640, 3761]
795	[1446, 1447]	2840	[1713, 3876]	4885	[3128, 3482]	6930	[5273, 1490]
796	[1448, 330]	2841	[32, 4209]	4886	[6068, 91]	6931	[7493, 883]
797	[1449, 344]	2842	[603, 4210]	4887	[6069, 3770]	6932	[5736, 2799]
798	[872, 1450]	2843	[4211, 4117]	4888	[6070, 1353]	6933	[7494, 5980]
799	[1451, 1452]	2844	[4212, 748]	4889	[6071, 871]	6934	[7495, 5801]
800	[1453, 966]	2845	[4213, 673]	4890	[5447, 5746]	6935	[7496, 3215]
801	[1454, 1455]	2846	[4214, 1678]	4891	[5371, 5766]	6936	[7497, 1440]
802	[1234, 1456]	2847	[4215, 4216]	4892	[3817, 5437]	6937	[7498, 5338]
803	[1457, 1458]	2848	[4217, 4218]	4893	[6072, 6073]	6938	[5980, 3798]
804	[914, 1214]	2849	[4219, 4214]	4894	[5540, 854]	6939	[7499, 3464]
805	[1459, 1460]	2850	[4220, 4221]	4895	[6074, 1013]	6940	[7500, 5308]
806	[965, 1076]	2851	[4222, 1878]	4896	[2899, 3797]	6941	[7501, 1365]
807	[1461, 1401]	2852	[4223, 4088]	4897	[6075, 5673]	6942	[3576, 285]
808	[1462, 248]	2853	[4224, 2128]	4898	[6076, 2665]	6943	[2934, 2737]
809	[1463, 1464]	2854	[4225, 2159]	4899	[6077, 959]	6944	[3654, 2910]
810	[1465, 1466]	2855	[4226, 4227]	4900	[305, 3316]	6945	[100, 1025]
811	[1366, 1467]	2856	[812, 829]	4901	[6078, 1176]	6946	[7502, 1093]
812	[1468, 1355]	2857	[4228, 4067]	4902	[6079, 1049]	6947	[7503, 1455]
813	[1469, 1470]	2858	[4229, 2163]	4903	[6080, 1402]	6948	[7504, 1283]
814	[1471, 1472]	2859	[4230, 518]	4904	[6081, 1014]	6949	[7505, 1376]
815	[1473, 1474]	2860	[4231, 2231]	4905	[5275, 3011]	6950	[7122, 5688]
816	[1475, 1285]	2861	[4232, 2141]	4906	[1296, 3618]	6951	[7506, 1409]
817	[1476, 1477]	2862	[4233, 4234]	4907	[6082, 251]	6952	[7507, 3447]
818	[1193, 1395]	2863	[1546, 4235]	4908	[6083, 5271]	6953	[7508, 1388]
819	[1478, 1479]	2864	[481, 4186]	4909	[6084, 5500]	6954	[3093, 3324]
820	[1480, 1481]	2865	[4236, 4215]	4910	[6085, 6086]	6955	[7509, 5398]
821	[1482, 1091]	2866	[4237, 1697]	4911	[6087, 2722]	6956	[7510, 3012]
822	[1483, 1484]	2867	[4238, 4239]	4912	[6088, 316]	6957	[3166, 1073]
823	[1410, 1485]	2868	[4240, 749]	4913	[6089, 326]	6958	[7511, 2980]
824	[1486, 1487]	2869	[4241, 155]	4914	[6090, 3680]	6959	[5713, 3233]
825	[1488, 1489]	2870	[4242, 4243]	4915	[6091, 3771]	6960	[7512, 2719]

826	[1490, 1491]	2871	[1782, 4244]	4916	[6092, 1271]	6961	[7513, 3039]
827	[1492, 1119]	2872	[4245, 1571]	4917	[5706, 1061]	6962	[3628, 6171]
828	[1493, 1494]	2873	[4246, 563]	4918	[3551, 1058]	6963	[2948, 299]
829	[1495, 1496]	2874	[4247, 4149]	4919	[2553, 5478]	6964	[870, 2718]
830	[1497, 1498]	2875	[4248, 1701]	4920	[6093, 451]	6965	[7514, 5396]
831	[1499, 1500]	2876	[4249, 1961]	4921	[6094, 1036]	6966	[7515, 96]
832	[1501, 1502]	2877	[1944, 2509]	4922	[6095, 365]	6967	[3725, 1409]
833	[1503, 1504]	2878	[4250, 4251]	4923	[6096, 969]	6968	[7516, 1487]
834	[1505, 1506]	2879	[4252, 2410]	4924	[6097, 98]	6969	[2593, 1143]
835	[1507, 1508]	2880	[2395, 4253]	4925	[6098, 6099]	6970	[1198, 5354]
836	[1509, 1510]	2881	[4254, 552]	4926	[320, 1352]	6971	[7517, 935]
837	[1511, 1512]	2882	[4255, 1533]	4927	[6100, 103]	6972	[7518, 256]
838	[849, 97]	2883	[4256, 2383]	4928	[6101, 881]	6973	[6210, 3807]
839	[859, 1513]	2884	[4257, 4258]	4929	[5330, 5856]	6974	[7519, 2927]
840	[997, 1514]	2885	[4259, 4260]	4930	[6102, 1326]	6975	[1491, 7110]
841	[1515, 1488]	2886	[471, 559]	4931	[1125, 3372]	6976	[7520, 5712]
842	[1516, 1517]	2887	[4261, 2415]	4932	[6103, 5778]	6977	[7521, 892]
843	[340, 1518]	2888	[4262, 4263]	4933	[6104, 3358]	6978	[7522, 2954]
844	[1519, 1520]	2889	[4264, 4265]	4934	[3220, 2560]	6979	[2696, 1480]
845	[1521, 1522]	2890	[4266, 4267]	4935	[5691, 1453]	6980	[7523, 75]
846	[1523, 1524]	2891	[4268, 4269]	4936	[6105, 1270]	6981	[7524, 1154]
847	[1525, 181]	2892	[4270, 2011]	4937	[6106, 2937]	6982	[3459, 996]
848	[1526, 192]	2893	[4271, 1958]	4938	[5490, 5233]	6983	[1240, 964]
849	[1527, 194]	2894	[4272, 2350]	4939	[2829, 3135]	6984	[7525, 5481]
850	[1528, 190]	2895	[3947, 4273]	4940	[6107, 5354]	6985	[7526, 5462]
851	[1529, 1530]	2896	[4274, 4275]	4941	[6108, 5693]	6986	[7527, 3385]
852	[1531, 1532]	2897	[4276, 4277]	4942	[6109, 2623]	6987	[7528, 3716]
853	[1533, 1534]	2898	[4278, 2230]	4943	[446, 2713]	6988	[7529, 3059]
854	[1535, 1536]	2899	[4279, 4280]	4944	[5829, 3800]	6989	[7530, 1256]
855	[1537, 1538]	2900	[4155, 4152]	4945	[6110, 3628]	6990	[7531, 1486]
856	[1539, 1540]	2901	[4281, 2378]	4946	[6111, 863]	6991	[7532, 2600]
857	[1541, 1542]	2902	[4079, 1641]	4947	[6112, 5419]	6992	[390, 5573]
858	[1543, 1544]	2903	[4282, 169]	4948	[851, 3012]	6993	[5866, 866]
859	[1545, 1546]	2904	[4283, 4284]	4949	[5463, 2944]	6994	[1157, 3781]
860	[781, 1547]	2905	[4285, 1631]	4950	[6113, 2838]	6995	[7533, 2919]
861	[1548, 1549]	2906	[4286, 1993]	4951	[6114, 3827]	6996	[7534, 3800]
862	[1550, 1551]	2907	[4287, 4288]	4952	[6115, 17]	6997	[3843, 3435]
863	[1552, 1553]	2908	[4289, 819]	4953	[3029, 6116]	6998	[7535, 1504]
864	[1554, 1555]	2909	[4290, 4291]	4954	[6117, 3566]	6999	[7536, 1314]
865	[1556, 1557]	2910	[4292, 2111]	4955	[6118, 441]	7000	[5194, 3461]
866	[1558, 1559]	2911	[4293, 1600]	4956	[6119, 1478]	7001	[7537, 5477]
867	[1560, 1561]	2912	[4294, 4295]	4957	[6120, 2631]	7002	[7538, 5269]
868	[1562, 1563]	2913	[4296, 4297]	4958	[240, 447]	7003	[7539, 3681]
869	[1564, 1565]	2914	[4298, 1592]	4959	[256, 1475]	7004	[392, 5569]

870	[1566, 1567]	2915	[4299, 4300]	4960	[371, 356]	7005	[7540, 2556]
871	[1568, 1569]	2916	[4301, 4302]	4961	[5303, 3092]	7006	[7541, 2596]
872	[1570, 1571]	2917	[4303, 4304]	4962	[3107, 3089]	7007	[7542, 2603]
873	[806, 1572]	2918	[2095, 4302]	4963	[5624, 3842]	7008	[3805, 5275]
874	[1573, 1574]	2919	[4305, 485]	4964	[3278, 2830]	7009	[1522, 2645]
875	[1575, 1576]	2920	[4306, 4307]	4965	[6121, 5295]	7010	[1216, 981]
876	[1577, 1578]	2921	[4308, 4309]	4966	[6122, 5448]	7011	[7543, 5891]
877	[1579, 1580]	2922	[630, 44]	4967	[6123, 6018]	7012	[5850, 1204]
878	[1581, 1582]	2923	[4310, 223]	4968	[6086, 6124]	7013	[5999, 3040]
879	[1583, 1584]	2924	[4311, 1722]	4969	[6125, 2888]	7014	[7544, 3156]
880	[1585, 1586]	2925	[4312, 2485]	4970	[6126, 342]	7015	[5633, 7168]
881	[1587, 1588]	2926	[4313, 2477]	4971	[2563, 2876]	7016	[7545, 1464]
882	[1589, 710]	2927	[1800, 4090]	4972	[3727, 3091]	7017	[405, 1385]
883	[157, 1590]	2928	[4314, 4315]	4973	[3525, 1211]	7018	[2831, 3221]
884	[1591, 1592]	2929	[4316, 3933]	4974	[6127, 2704]	7019	[7546, 425]
885	[1593, 1594]	2930	[4180, 4317]	4975	[6128, 1002]	7020	[7547, 3743]
886	[1595, 1596]	2931	[4318, 597]	4976	[3732, 450]	7021	[953, 3054]
887	[1597, 1598]	2932	[4319, 1932]	4977	[6129, 5802]	7022	[7548, 434]
888	[1599, 1600]	2933	[4320, 4321]	4978	[2911, 1428]	7023	[7549, 3824]
889	[479, 836]	2934	[4322, 4124]	4979	[6130, 6131]	7024	[7550, 1349]
890	[1601, 1602]	2935	[2468, 4323]	4980	[3306, 308]	7025	[7551, 2703]
891	[1603, 1604]	2936	[4324, 4001]	4981	[6132, 5399]	7026	[7552, 3683]
892	[1605, 1606]	2937	[3921, 4325]	4982	[6133, 2615]	7027	[2688, 26]
893	[1607, 825]	2938	[1816, 1569]	4983	[6134, 373]	7028	[7553, 5911]
894	[1608, 1609]	2939	[4326, 1528]	4984	[6135, 920]	7029	[7554, 3331]
895	[1610, 1611]	2940	[4327, 60]	4985	[6136, 2840]	7030	[7555, 328]
896	[1612, 1613]	2941	[2441, 2133]	4986	[6137, 6138]	7031	[7556, 3149]
897	[1614, 1615]	2942	[4328, 4168]	4987	[5437, 5314]	7032	[7557, 6210]
898	[1616, 710]	2943	[4329, 4211]	4988	[6139, 2899]	7033	[6262, 1371]
899	[1617, 1618]	2944	[4330, 1972]	4989	[6140, 1500]	7034	[1520, 2695]
900	[1563, 1619]	2945	[1850, 4331]	4990	[6141, 2597]	7035	[7558, 1160]
901	[1620, 1621]	2946	[4332, 4333]	4991	[6142, 1381]	7036	[7559, 846]
902	[1622, 1623]	2947	[607, 4268]	4992	[6143, 3726]	7037	[5472, 5795]
903	[1624, 1625]	2948	[4334, 2320]	4993	[6144, 6145]	7038	[7560, 5706]
904	[1626, 1627]	2949	[4335, 4336]	4994	[6146, 2915]	7039	[7561, 3043]
905	[1628, 1629]	2950	[4337, 495]	4995	[6147, 5463]	7040	[7562, 3311]
906	[1630, 1631]	2951	[2262, 2299]	4996	[3031, 6148]	7041	[7563, 1416]
907	[1632, 1633]	2952	[4338, 4286]	4997	[6149, 5749]	7042	[107, 7151]
908	[1634, 618]	2953	[4339, 564]	4998	[361, 5947]	7043	[7564, 1144]
909	[789, 469]	2954	[4340, 1779]	4999	[2787, 3122]	7044	[1056, 848]
910	[1635, 1636]	2955	[4341, 4342]	5000	[6150, 1522]	7045	[3785, 3480]
911	[1637, 1638]	2956	[4343, 2076]	5001	[6151, 5219]	7046	[421, 978]
912	[1639, 1640]	2957	[4344, 811]	5002	[6152, 3270]	7047	[1426, 2881]
913	[1641, 832]	2958	[3849, 4345]	5003	[6153, 1313]	7048	[2970, 263]

914	[1642, 1643]	2959	[2212, 2005]	5004	[6154, 3182]	7049	[88, 5286]
915	[1644, 1645]	2960	[4346, 4347]	5005	[277, 6155]	7050	[3314, 3779]
916	[1646, 1647]	2961	[4348, 2169]	5006	[6156, 3837]	7051	[7565, 2976]
917	[1648, 1649]	2962	[4349, 2328]	5007	[6157, 3280]	7052	[3086, 3542]
918	[1650, 707]	2963	[4092, 725]	5008	[6158, 883]	7053	[28, 19]
919	[1651, 1652]	2964	[4350, 4351]	5009	[1040, 3612]	7054	[7566, 5404]
920	[1653, 1654]	2965	[4352, 2484]	5010	[6159, 3271]	7055	[7567, 3427]
921	[810, 1655]	2966	[4353, 2249]	5011	[6160, 3093]	7056	[2686, 3371]
922	[1656, 1657]	2967	[4354, 4355]	5012	[5755, 858]	7057	[7568, 1396]
923	[1658, 1659]	2968	[4356, 4357]	5013	[6161, 3808]	7058	[7569, 3558]
924	[1660, 1661]	2969	[4358, 4359]	5014	[2942, 3336]	7059	[7570, 1358]
925	[1662, 1663]	2970	[4360, 1791]	5015	[6162, 886]	7060	[6116, 5202]
926	[1664, 1665]	2971	[4109, 4361]	5016	[6163, 2776]	7061	[5595, 405]
927	[1666, 1621]	2972	[4362, 626]	5017	[6164, 3135]	7062	[7571, 5350]
928	[1667, 179]	2973	[4363, 4364]	5018	[6012, 5234]	7063	[3680, 1279]
929	[1668, 1669]	2974	[2247, 4365]	5019	[6165, 5318]	7064	[5791, 2767]
930	[1670, 1671]	2975	[4366, 4367]	5020	[6166, 5910]	7065	[5282, 5199]
931	[1672, 1673]	2976	[1989, 4368]	5021	[6167, 999]	7066	[5401, 6003]
932	[1674, 554]	2977	[4309, 4154]	5022	[6168, 3392]	7067	[7572, 5789]
933	[1675, 1676]	2978	[202, 2085]	5023	[3659, 6169]	7068	[2968, 3789]
934	[1677, 1678]	2979	[4369, 4370]	5024	[6170, 6171]	7069	[7573, 443]
935	[1679, 1680]	2980	[4371, 4372]	5025	[6172, 3835]	7070	[7574, 5847]
936	[1681, 1682]	2981	[4373, 4149]	5026	[6173, 5192]	7071	[3192, 1221]
937	[1683, 1684]	2982	[4374, 4015]	5027	[6174, 1508]	7072	[7575, 2602]
938	[1685, 1686]	2983	[4375, 2241]	5028	[6175, 5259]	7073	[7576, 3128]
939	[1687, 1688]	2984	[4376, 601]	5029	[6176, 929]	7074	[7577, 1156]
940	[1689, 603]	2985	[4377, 4362]	5030	[6177, 6178]	7075	[7578, 990]
941	[1690, 1691]	2986	[2408, 4167]	5031	[6179, 3482]	7076	[7579, 3249]
942	[1692, 1693]	2987	[4378, 1960]	5032	[6180, 5494]	7077	[7580, 3383]
943	[1694, 1695]	2988	[4379, 4380]	5033	[6181, 1336]	7078	[3513, 2838]
944	[1696, 1697]	2989	[2456, 2262]	5034	[5802, 1101]	7079	[1224, 3715]
945	[1698, 1699]	2990	[4381, 4382]	5035	[6182, 3172]	7080	[7581, 955]
946	[1700, 1701]	2991	[795, 4383]	5036	[6183, 3361]	7081	[2713, 79]
947	[1702, 1703]	2992	[3943, 4384]	5037	[6184, 5471]	7082	[7582, 2795]
948	[1704, 1705]	2993	[2529, 4385]	5038	[6185, 2755]	7083	[3511, 386]
949	[1706, 1626]	2994	[4386, 4093]	5039	[3265, 5555]	7084	[1024, 3679]
950	[1707, 1708]	2995	[4387, 534]	5040	[6186, 5741]	7085	[450, 1159]
951	[1709, 1710]	2996	[1958, 4388]	5041	[6187, 2604]	7086	[5873, 1519]
952	[1711, 1712]	2997	[4389, 4325]	5042	[6188, 1350]	7087	[1231, 3672]
953	[770, 1713]	2998	[4390, 4391]	5043	[5235, 3463]	7088	[7583, 1348]
954	[1714, 46]	2999	[2205, 194]	5044	[6189, 5505]	7089	[7584, 1242]
955	[1715, 1716]	3000	[734, 1643]	5045	[6190, 1214]	7090	[7585, 6294]
956	[1717, 1718]	3001	[4392, 2146]	5046	[1428, 3109]	7091	[1740, 1773]
957	[36, 1719]	3002	[4393, 4394]	5047	[6191, 1145]	7092	[1881, 6826]

958	[8, 1720]	3003	[4331, 4257]	5048	[6192, 5786]	7093	[2431, 1540]
959	[1721, 1722]	3004	[4395, 3976]	5049	[6193, 117]	7094	[5025, 637]
960	[1723, 1724]	3005	[4396, 4397]	5050	[6194, 5986]	7095	[7586, 7587]
961	[1725, 1726]	3006	[4398, 4399]	5051	[3814, 1145]	7096	[1684, 4903]
962	[1727, 1728]	3007	[4400, 4186]	5052	[3587, 3065]	7097	[7588, 7062]
963	[1729, 1730]	3008	[1732, 4076]	5053	[3293, 2861]	7098	[6937, 640]
964	[1731, 1732]	3009	[4401, 1886]	5054	[109, 3288]	7099	[2018, 646]
965	[1733, 1734]	3010	[2079, 4402]	5055	[2745, 3352]	7100	[4682, 4104]
966	[1735, 790]	3011	[4403, 4404]	5056	[6195, 3555]	7101	[7589, 4014]
967	[1736, 1737]	3012	[4405, 1547]	5057	[254, 2628]	7102	[7590, 5101]
968	[133, 1738]	3013	[1678, 2324]	5058	[5184, 3673]	7103	[839, 3901]
969	[1739, 1740]	3014	[4406, 4407]	5059	[6196, 1109]	7104	[1665, 1733]
970	[1741, 1742]	3015	[4408, 1934]	5060	[6197, 5619]	7105	[7591, 4305]
971	[1743, 1744]	3016	[4409, 4410]	5061	[6198, 3030]	7106	[7592, 7593]
972	[1745, 1746]	3017	[4411, 4357]	5062	[6199, 322]	7107	[4364, 6712]
973	[1747, 1748]	3018	[4412, 2488]	5063	[6200, 1153]	7108	[676, 4696]
974	[1749, 1750]	3019	[4413, 2246]	5064	[6201, 315]	7109	[1767, 3866]
975	[1751, 465]	3020	[1793, 4414]	5065	[6202, 1098]	7110	[7594, 1641]
976	[1752, 1753]	3021	[4415, 4141]	5066	[6203, 1438]	7111	[740, 154]
977	[1754, 1755]	3022	[38, 4416]	5067	[6204, 3673]	7112	[7595, 5006]
978	[1756, 1604]	3023	[4417, 776]	5068	[3566, 5278]	7113	[2403, 1823]
979	[1693, 1757]	3024	[4418, 4419]	5069	[1470, 6205]	7114	[7596, 487]
980	[1758, 1759]	3025	[4420, 4421]	5070	[6206, 898]	7115	[7597, 4715]
981	[1760, 48]	3026	[4422, 4214]	5071	[6207, 3782]	7116	[7598, 4767]
982	[1761, 1762]	3027	[4423, 1796]	5072	[6208, 3022]	7117	[7599, 7600]
983	[1763, 1764]	3028	[4424, 4425]	5073	[6209, 3344]	7118	[7601, 7602]
984	[713, 1765]	3029	[4426, 4427]	5074	[3487, 6210]	7119	[7603, 555]
985	[1766, 1767]	3030	[2437, 2081]	5075	[2652, 6100]	7120	[7604, 7605]
986	[1768, 1769]	3031	[3950, 2076]	5076	[6211, 3115]	7121	[7606, 2068]
987	[1770, 1771]	3032	[4428, 4429]	5077	[6212, 2805]	7122	[7607, 1884]
988	[1772, 1773]	3033	[4430, 1782]	5078	[1164, 1420]	7123	[4269, 782]
989	[582, 1774]	3034	[1759, 4431]	5079	[6213, 3579]	7124	[7608, 4566]
990	[56, 1775]	3035	[216, 4256]	5080	[6214, 1216]	7125	[7609, 3860]
991	[1776, 819]	3036	[4432, 4202]	5081	[6215, 5511]	7126	[6768, 3966]
992	[1777, 1778]	3037	[4288, 4433]	5082	[1269, 1465]	7127	[7610, 3882]
993	[1779, 1780]	3038	[4434, 4435]	5083	[6216, 3619]	7128	[7611, 2004]
994	[1781, 1782]	3039	[4436, 739]	5084	[2859, 3533]	7129	[3905, 3913]
995	[1783, 1784]	3040	[4437, 4168]	5085	[6217, 1192]	7130	[651, 6844]
996	[1785, 1786]	3041	[1780, 4425]	5086	[1202, 3645]	7131	[7612, 4273]
997	[1538, 1787]	3042	[4438, 1713]	5087	[6218, 296]	7132	[7613, 7614]
998	[1788, 1789]	3043	[4439, 4440]	5088	[5495, 5588]	7133	[7615, 5083]
999	[1790, 1791]	3044	[4441, 4442]	5089	[6219, 3389]	7134	[7616, 7070]
1000	[1792, 1793]	3045	[4443, 2101]	5090	[6220, 3658]	7135	[2227, 4940]
1001	[473, 1794]	3046	[4444, 1887]	5091	[5789, 5356]	7136	[7617, 7618]

1002	[1795, 1796]	3047	[4445, 4446]	5092	[5801, 6221]	7137	[798, 1537]
1003	[206, 655]	3048	[4447, 4448]	5093	[6222, 2809]	7138	[7619, 1764]
1004	[622, 1797]	3049	[4449, 2395]	5094	[1077, 2893]	7139	[7620, 716]
1005	[1798, 532]	3050	[4450, 725]	5095	[3168, 5529]	7140	[6699, 2420]
1006	[1799, 1800]	3051	[3903, 2236]	5096	[434, 3728]	7141	[7621, 5067]
1007	[1801, 1802]	3052	[2533, 2101]	5097	[336, 3571]	7142	[7622, 6960]
1008	[1803, 1804]	3053	[4451, 2027]	5098	[6223, 1037]	7143	[7623, 7031]
1009	[1805, 1778]	3054	[4452, 4453]	5099	[6224, 2828]	7144	[7624, 6424]
1010	[1748, 568]	3055	[4454, 4455]	5100	[6225, 1269]	7145	[1940, 2216]
1011	[1806, 1807]	3056	[4456, 2258]	5101	[6226, 2571]	7146	[6804, 4946]
1012	[1808, 1809]	3057	[834, 4457]	5102	[6227, 1035]	7147	[7587, 577]
1013	[1810, 1811]	3058	[4458, 4459]	5103	[6228, 281]	7148	[2267, 7625]
1014	[1812, 1813]	3059	[4460, 206]	5104	[6229, 2553]	7149	[6665, 4887]
1015	[1814, 1815]	3060	[4461, 4099]	5105	[1052, 5318]	7150	[1659, 2025]
1016	[717, 734]	3061	[4462, 4243]	5106	[6230, 2638]	7151	[7626, 4471]
1017	[60, 1816]	3062	[4463, 4070]	5107	[6231, 5788]	7152	[7627, 6476]
1018	[1817, 1646]	3063	[4464, 1862]	5108	[6232, 2898]	7153	[7628, 5015]
1019	[1818, 1819]	3064	[4465, 2131]	5109	[379, 3074]	7154	[7629, 4474]
1020	[1820, 1726]	3065	[4466, 4230]	5110	[6233, 3393]	7155	[7630, 1692]
1021	[793, 606]	3066	[4467, 4125]	5111	[2781, 5494]	7156	[7631, 6611]
1022	[1821, 1822]	3067	[4468, 1553]	5112	[6234, 3396]	7157	[4678, 1679]
1023	[701, 1598]	3068	[4469, 4470]	5113	[5434, 3565]	7158	[7029, 2068]
1024	[1823, 1824]	3069	[1633, 2410]	5114	[6235, 943]	7159	[1794, 6416]
1025	[1825, 1826]	3070	[4471, 4472]	5115	[1360, 347]	7160	[7632, 6560]
1026	[193, 1827]	3071	[1991, 4180]	5116	[6236, 2551]	7161	[698, 4613]
1027	[1828, 1827]	3072	[4473, 4474]	5117	[5192, 3205]	7162	[2517, 761]
1028	[1829, 1749]	3073	[4475, 4260]	5118	[5714, 3225]	7163	[1663, 476]
1029	[1830, 744]	3074	[4476, 4477]	5119	[6237, 916]	7164	[7633, 4640]
1030	[1831, 467]	3075	[3928, 1551]	5120	[3136, 3822]	7165	[7634, 1863]
1031	[1832, 1833]	3076	[4478, 4320]	5121	[2868, 3408]	7166	[7635, 6423]
1032	[1834, 1835]	3077	[4479, 4480]	5122	[6238, 2997]	7167	[2349, 6629]
1033	[1836, 1837]	3078	[1631, 1956]	5123	[6239, 364]	7168	[7636, 4242]
1034	[1838, 1784]	3079	[1686, 1965]	5124	[2709, 5381]	7169	[7637, 207]
1035	[1839, 1840]	3080	[4481, 4316]	5125	[6240, 930]	7170	[7638, 2064]
1036	[1784, 1660]	3081	[3868, 4482]	5126	[6241, 3543]	7171	[4361, 122]
1037	[1841, 202]	3082	[4483, 2513]	5127	[6242, 5370]	7172	[6741, 4577]
1038	[1842, 1843]	3083	[4484, 4248]	5128	[6243, 6244]	7173	[497, 676]
1039	[1844, 1845]	3084	[4485, 1944]	5129	[6245, 1050]	7174	[4407, 2416]
1040	[1551, 1560]	3085	[4486, 2463]	5130	[3590, 5291]	7175	[7639, 4306]
1041	[1846, 1847]	3086	[4234, 4487]	5131	[5827, 361]	7176	[2188, 4423]
1042	[1848, 499]	3087	[2185, 120]	5132	[6246, 5795]	7177	[6756, 6607]
1043	[1849, 1850]	3088	[4488, 4489]	5133	[6247, 1127]	7178	[5088, 7062]
1044	[1851, 1852]	3089	[4490, 1658]	5134	[1088, 5419]	7179	[7640, 4038]
1045	[1580, 1853]	3090	[4491, 2260]	5135	[6248, 3761]	7180	[7641, 7077]

1046	[1584, 1854]	3091	[4492, 4391]	5136	[6249, 5362]	7181	[7642, 4479]
1047	[1855, 1856]	3092	[3981, 187]	5137	[3074, 1001]	7182	[7643, 6635]
1048	[1857, 530]	3093	[4280, 1609]	5138	[6250, 5411]	7183	[7644, 4353]
1049	[1858, 1859]	3094	[4493, 4494]	5139	[6251, 5371]	7184	[1886, 2259]
1050	[1645, 1860]	3095	[4495, 4496]	5140	[1398, 5178]	7185	[6430, 5004]
1051	[1861, 1862]	3096	[4497, 4498]	5141	[6252, 5737]	7186	[7645, 4255]
1052	[1863, 1864]	3097	[4499, 4500]	5142	[3625, 6009]	7187	[4203, 1664]
1053	[1865, 214]	3098	[4501, 4290]	5143	[6253, 3754]	7188	[2056, 6290]
1054	[1866, 1867]	3099	[562, 4502]	5144	[6254, 5425]	7189	[1655, 2487]
1055	[1868, 121]	3100	[4503, 2036]	5145	[6255, 1453]	7190	[7646, 3894]
1056	[1869, 1870]	3101	[4504, 1940]	5146	[5746, 1096]	7191	[7647, 6426]
1057	[1871, 1872]	3102	[4505, 1753]	5147	[6256, 1076]	7192	[1719, 660]
1058	[1873, 1874]	3103	[4506, 147]	5148	[6257, 2552]	7193	[7648, 7649]
1059	[1875, 1876]	3104	[4507, 1788]	5149	[6258, 6169]	7194	[7650, 6862]
1060	[1877, 1878]	3105	[4508, 2333]	5150	[6259, 3154]	7195	[4675, 6460]
1061	[1879, 1880]	3106	[4509, 4510]	5151	[6260, 3667]	7196	[6824, 4193]
1062	[513, 1881]	3107	[4511, 4459]	5152	[6261, 6262]	7197	[7651, 2042]
1063	[1882, 137]	3108	[4512, 4513]	5153	[5545, 2783]	7198	[1908, 6555]
1064	[1883, 1884]	3109	[1600, 4514]	5154	[6263, 3217]	7199	[4536, 4879]
1065	[1885, 1886]	3110	[234, 1826]	5155	[5441, 6264]	7200	[7652, 4502]
1066	[1887, 1888]	3111	[4515, 4516]	5156	[6265, 343]	7201	[808, 2188]
1067	[1889, 1890]	3112	[4517, 1920]	5157	[6266, 3578]	7202	[7653, 6469]
1068	[1891, 1848]	3113	[4518, 4304]	5158	[6267, 3193]	7203	[7654, 1974]
1069	[1892, 1893]	3114	[4519, 4515]	5159	[6268, 1397]	7204	[7655, 2301]
1070	[778, 1894]	3115	[4520, 4266]	5160	[6131, 5364]	7205	[7656, 6493]
1071	[1895, 714]	3116	[580, 4299]	5161	[2756, 1425]	7206	[7657, 6584]
1072	[1896, 1897]	3117	[4521, 4522]	5162	[6269, 3136]	7207	[7658, 6976]
1073	[1898, 1899]	3118	[4523, 4518]	5163	[6270, 966]	7208	[7659, 4017]
1074	[175, 1900]	3119	[4516, 4524]	5164	[6271, 311]	7209	[7660, 4085]
1075	[1901, 1902]	3120	[4525, 4300]	5165	[6272, 279]	7210	[4453, 2064]
1076	[1903, 163]	3121	[4526, 1919]	5166	[403, 1435]	7211	[7661, 1650]
1077	[1904, 1611]	3122	[4527, 4368]	5167	[6273, 1407]	7212	[7662, 4795]
1078	[1905, 1906]	3123	[4528, 701]	5168	[6274, 3289]	7213	[7663, 6951]
1079	[1907, 1908]	3124	[4529, 2]	5169	[6275, 3530]	7214	[4836, 6935]
1080	[1909, 1910]	3125	[4530, 4522]	5170	[6276, 1347]	7215	[7664, 5020]
1081	[1911, 1912]	3126	[4531, 4532]	5171	[6277, 3838]	7216	[3901, 5038]
1082	[1913, 1914]	3127	[4533, 3969]	5172	[6278, 1010]	7217	[667, 4794]
1083	[1915, 1916]	3128	[4534, 2046]	5173	[5342, 3033]	7218	[4816, 1982]
1084	[1917, 1918]	3129	[4535, 4536]	5174	[6279, 2643]	7219	[4433, 4738]
1085	[1919, 1920]	3130	[2253, 3861]	5175	[5841, 1339]	7220	[5107, 6600]
1086	[1921, 1794]	3131	[4537, 4538]	5176	[5283, 3182]	7221	[4561, 4790]
1087	[1922, 1923]	3132	[1914, 4539]	5177	[6280, 6281]	7222	[7665, 4216]
1088	[1924, 1925]	3133	[4540, 2476]	5178	[6282, 230]	7223	[7666, 6956]
1089	[1926, 1927]	3134	[4541, 2139]	5179	[6283, 5019]	7224	[2137, 2128]

1090	[758, 1928]	3135	[4542, 4543]	5180	[6284, 6285]	7225	[7667, 1790]
1091	[1929, 1930]	3136	[4544, 4471]	5181	[6286, 2273]	7226	[1703, 6426]
1092	[1931, 1932]	3137	[2504, 4545]	5182	[4111, 140]	7227	[7668, 4849]
1093	[1532, 510]	3138	[4546, 4133]	5183	[6287, 1704]	7228	[728, 2210]
1094	[1933, 1934]	3139	[4547, 1883]	5184	[6288, 2397]	7229	[7669, 1638]
1095	[1935, 1936]	3140	[2258, 4453]	5185	[4601, 4977]	7230	[491, 6457]
1096	[1937, 1938]	3141	[4548, 4549]	5186	[6289, 3950]	7231	[7670, 6352]
1097	[1939, 1940]	3142	[4550, 2082]	5187	[6290, 4571]	7232	[2102, 7671]
1098	[1941, 1942]	3143	[4551, 4407]	5188	[6291, 3979]	7233	[6886, 6915]
1099	[1943, 1944]	3144	[744, 4552]	5189	[4687, 3894]	7234	[707, 582]
1100	[1945, 34]	3145	[4553, 516]	5190	[2063, 1542]	7235	[7672, 4820]
1101	[1946, 1947]	3146	[4372, 4554]	5191	[6292, 4723]	7236	[2210, 1855]
1102	[1948, 818]	3147	[4555, 1832]	5192	[6293, 1870]	7237	[1765, 2433]
1103	[1949, 120]	3148	[4556, 1633]	5193	[191, 4960]	7238	[4662, 4769]
1104	[1950, 143]	3149	[4557, 2526]	5194	[6294, 4173]	7239	[650, 5059]
1105	[1951, 1952]	3150	[4558, 2088]	5195	[6295, 4953]	7240	[7673, 4617]
1106	[1953, 1954]	3151	[4559, 4202]	5196	[6296, 4121]	7241	[7674, 1953]
1107	[1955, 1956]	3152	[4560, 4561]	5197	[6297, 2052]	7242	[4069, 6771]
1108	[1957, 1958]	3153	[4489, 4234]	5198	[6298, 1664]	7243	[4336, 4350]
1109	[1959, 1960]	3154	[4562, 4164]	5199	[6299, 1666]	7244	[7675, 6594]
1110	[1961, 1667]	3155	[4563, 2309]	5200	[6300, 4982]	7245	[7676, 1866]
1111	[1962, 501]	3156	[589, 4118]	5201	[6301, 1758]	7246	[6594, 7023]
1112	[1963, 1964]	3157	[4564, 1845]	5202	[6302, 2464]	7247	[7677, 2094]
1113	[1965, 1966]	3158	[40, 4293]	5203	[6303, 3956]	7248	[7678, 1839]
1114	[1912, 723]	3159	[4565, 1555]	5204	[6304, 4347]	7249	[7679, 4913]
1115	[1967, 694]	3160	[1993, 4566]	5205	[6281, 3862]	7250	[4368, 5087]
1116	[1968, 1969]	3161	[4567, 2198]	5206	[6305, 4465]	7251	[7680, 2162]
1117	[1970, 1694]	3162	[509, 2148]	5207	[6306, 1733]	7252	[7681, 4663]
1118	[1971, 1566]	3163	[4568, 4569]	5208	[2424, 6307]	7253	[7593, 4810]
1119	[1972, 756]	3164	[1705, 4315]	5209	[6308, 6309]	7254	[7600, 4703]
1120	[1973, 1645]	3165	[4570, 4571]	5210	[6310, 3949]	7255	[3963, 6796]
1121	[1974, 698]	3166	[738, 4572]	5211	[2319, 793]	7256	[7682, 4447]
1122	[1975, 1976]	3167	[4573, 2249]	5212	[2146, 2061]	7257	[7683, 7011]
1123	[1977, 1978]	3168	[4574, 781]	5213	[4958, 5020]	7258	[3939, 4322]
1124	[1979, 560]	3169	[4575, 4576]	5214	[6311, 6312]	7259	[7684, 4236]
1125	[1980, 814]	3170	[4577, 2233]	5215	[4258, 6313]	7260	[7685, 2296]
1126	[1981, 1982]	3171	[4578, 2084]	5216	[6314, 4458]	7261	[7686, 1759]
1127	[1983, 1984]	3172	[1629, 2411]	5217	[6315, 3877]	7262	[4370, 5122]
1128	[1985, 1986]	3173	[1746, 4468]	5218	[6316, 4600]	7263	[7687, 1797]
1129	[1987, 647]	3174	[2486, 4579]	5219	[6317, 4122]	7264	[7688, 4986]
1130	[1988, 1989]	3175	[4580, 1652]	5220	[6318, 4342]	7265	[7689, 6662]
1131	[1990, 1991]	3176	[1609, 4427]	5221	[6319, 4656]	7266	[7690, 4320]
1132	[1992, 1993]	3177	[4581, 1750]	5222	[6320, 1988]	7267	[7691, 6664]
1133	[1994, 1846]	3178	[4582, 4423]	5223	[4930, 4092]	7268	[7692, 3937]

1134	[1995, 1947]	3179	[4583, 4103]	5224	[6321, 6322]	7269	[2131, 4326]
1135	[1647, 1996]	3180	[2390, 4584]	5225	[6323, 774]	7270	[7693, 6526]
1136	[1997, 1998]	3181	[4585, 2445]	5226	[2454, 1809]	7271	[6904, 5047]
1137	[1999, 2000]	3182	[4586, 195]	5227	[6324, 4506]	7272	[1774, 6906]
1138	[2001, 2002]	3183	[4514, 4242]	5228	[4532, 4714]	7273	[4315, 6585]
1139	[2003, 634]	3184	[1716, 4587]	5229	[6325, 1679]	7274	[7694, 3917]
1140	[2004, 685]	3185	[2117, 4496]	5230	[505, 6326]	7275	[7695, 1627]
1141	[2005, 2006]	3186	[2392, 3952]	5231	[4038, 6327]	7276	[7696, 4484]
1142	[2007, 2008]	3187	[4588, 668]	5232	[6328, 2083]	7277	[7697, 4128]
1143	[2009, 8]	3188	[1964, 4589]	5233	[6329, 213]	7278	[7698, 4506]
1144	[2010, 2011]	3189	[4590, 4050]	5234	[6330, 6331]	7279	[7699, 2018]
1145	[2012, 2013]	3190	[4591, 216]	5235	[4724, 668]	7280	[1835, 50]
1146	[2014, 2015]	3191	[591, 4447]	5236	[4317, 541]	7281	[4184, 6592]
1147	[2016, 1587]	3192	[4592, 4440]	5237	[4754, 636]	7282	[6633, 5030]
1148	[2017, 2018]	3193	[4593, 4364]	5238	[6332, 6333]	7283	[7614, 3881]
1149	[2019, 747]	3194	[4594, 4111]	5239	[6334, 1779]	7284	[7700, 4577]
1150	[2020, 1564]	3195	[4595, 4385]	5240	[6335, 4716]	7285	[520, 2471]
1151	[2021, 2022]	3196	[4596, 4388]	5241	[4043, 6336]	7286	[1802, 5056]
1152	[2023, 2024]	3197	[4597, 763]	5242	[6337, 4535]	7287	[7701, 1850]
1153	[2025, 2026]	3198	[4598, 1623]	5243	[6338, 2429]	7288	[7702, 6813]
1154	[2027, 2028]	3199	[4599, 754]	5244	[6339, 4526]	7289	[1900, 4739]
1155	[2029, 2030]	3200	[4600, 4601]	5245	[6340, 577]	7290	[7703, 4836]
1156	[1636, 490]	3201	[4602, 2186]	5246	[6341, 6342]	7291	[4435, 4072]
1157	[2031, 2032]	3202	[2515, 684]	5247	[6343, 220]	7292	[564, 3851]
1158	[2033, 1900]	3203	[4603, 3983]	5248	[6344, 2527]	7293	[1764, 6717]
1159	[2034, 699]	3204	[4604, 4594]	5249	[6345, 4351]	7294	[7704, 7705]
1160	[2035, 2036]	3205	[4605, 766]	5250	[6346, 2332]	7295	[7706, 1531]
1161	[2037, 2038]	3206	[2347, 800]	5251	[6347, 5001]	7296	[7707, 6585]
1162	[2039, 2040]	3207	[4606, 54]	5252	[6348, 700]	7297	[7708, 4898]
1163	[2041, 2042]	3208	[4607, 599]	5253	[3954, 1525]	7298	[6285, 6664]
1164	[2043, 519]	3209	[2520, 1976]	5254	[6349, 4784]	7299	[7709, 4957]
1165	[2044, 2045]	3210	[4608, 2503]	5255	[4758, 196]	7300	[7710, 5149]
1166	[2046, 608]	3211	[4227, 1668]	5256	[2473, 1866]	7301	[7711, 3907]
1167	[636, 1602]	3212	[4609, 4096]	5257	[6350, 1860]	7302	[7712, 2263]
1168	[2047, 1706]	3213	[2325, 4610]	5258	[2335, 1984]	7303	[7058, 4780]
1169	[2002, 2048]	3214	[4611, 2319]	5259	[3971, 1646]	7304	[7713, 4748]
1170	[159, 2049]	3215	[4612, 551]	5260	[5017, 758]	7305	[7714, 6788]
1171	[2050, 174]	3216	[4613, 1800]	5261	[4144, 4037]	7306	[7715, 6293]
1172	[2051, 2028]	3217	[4614, 2350]	5262	[5156, 3956]	7307	[7716, 182]
1173	[2052, 522]	3218	[4615, 479]	5263	[6351, 2247]	7308	[4027, 4653]
1174	[2053, 2054]	3219	[4616, 4451]	5264	[6352, 3970]	7309	[469, 6409]
1175	[2055, 2056]	3220	[4617, 4618]	5265	[2338, 1977]	7310	[6508, 2314]
1176	[1811, 2057]	3221	[4619, 2434]	5266	[2061, 4853]	7311	[7717, 5171]
1177	[2058, 2059]	3222	[4200, 743]	5267	[6353, 2405]	7312	[1542, 555]

1178	[2060, 2061]	3223	[4192, 2056]	5268	[6327, 2503]	7313	[7718, 4629]
1179	[2062, 2063]	3224	[4620, 4621]	5269	[4141, 6354]	7314	[2284, 7618]
1180	[2064, 2065]	3225	[4622, 648]	5270	[6355, 2412]	7315	[7719, 4623]
1181	[2066, 570]	3226	[153, 1755]	5271	[6356, 4614]	7316	[4566, 2015]
1182	[2067, 151]	3227	[4367, 3943]	5272	[6357, 6358]	7317	[7720, 5081]
1183	[2068, 2069]	3228	[1657, 139]	5273	[6359, 4678]	7318	[7721, 3850]
1184	[2070, 739]	3229	[4623, 4624]	5274	[6360, 2077]	7319	[7722, 7723]
1185	[2071, 2072]	3230	[4625, 1748]	5275	[6361, 490]	7320	[7724, 1936]
1186	[2073, 2074]	3231	[4626, 2107]	5276	[3907, 3848]	7321	[7725, 4660]
1187	[2075, 641]	3232	[4061, 2145]	5277	[6362, 2090]	7322	[1640, 6813]
1188	[2076, 2077]	3233	[4627, 4628]	5278	[6363, 1705]	7323	[6996, 5126]
1189	[46, 2078]	3234	[4629, 2082]	5279	[6364, 2534]	7324	[7726, 7727]
1190	[1867, 2079]	3235	[4630, 229]	5280	[4790, 5090]	7325	[7728, 6440]
1191	[2080, 2081]	3236	[4631, 2237]	5281	[6365, 6366]	7326	[6419, 1685]
1192	[2082, 2083]	3237	[4632, 4633]	5282	[6367, 1689]	7327	[2420, 6584]
1193	[2006, 2084]	3238	[4634, 4615]	5283	[6368, 4514]	7328	[2461, 4986]
1194	[2085, 2086]	3239	[4635, 2315]	5284	[6369, 4618]	7329	[7729, 4854]
1195	[2087, 2088]	3240	[3859, 784]	5285	[6370, 2178]	7330	[7730, 5044]
1196	[2089, 2090]	3241	[2244, 4636]	5286	[6371, 2123]	7331	[4812, 615]
1197	[2091, 1989]	3242	[4637, 1999]	5287	[6372, 5059]	7332	[7731, 806]
1198	[2092, 1997]	3243	[4638, 1752]	5288	[6373, 2370]	7333	[487, 1807]
1199	[646, 2093]	3244	[4359, 4421]	5289	[5150, 5120]	7334	[7732, 6554]
1200	[2094, 2095]	3245	[4639, 4640]	5290	[6374, 4026]	7335	[7733, 2022]
1201	[2096, 565]	3246	[4641, 4487]	5291	[4649, 2023]	7336	[7734, 6626]
1202	[2097, 820]	3247	[4642, 1990]	5292	[2378, 1925]	7337	[2482, 666]
1203	[2098, 771]	3248	[4643, 4078]	5293	[6375, 3851]	7338	[3999, 4950]
1204	[2099, 196]	3249	[4644, 1849]	5294	[6376, 502]	7339	[6816, 679]
1205	[2100, 1819]	3250	[4645, 4106]	5295	[6377, 587]	7340	[489, 4504]
1206	[2101, 2102]	3251	[4646, 4268]	5296	[4672, 6378]	7341	[4072, 6358]
1207	[2103, 1619]	3252	[4351, 2436]	5297	[6379, 2087]	7342	[7735, 4027]
1208	[2104, 1854]	3253	[4647, 4291]	5298	[6380, 3999]	7343	[7024, 2070]
1209	[2105, 2106]	3254	[4648, 4649]	5299	[6381, 6382]	7344	[6960, 4563]
1210	[2107, 2108]	3255	[785, 4650]	5300	[6383, 4645]	7345	[7736, 4750]
1211	[2109, 2110]	3256	[4651, 1765]	5301	[6384, 3857]	7346	[4472, 1962]
1212	[1598, 2111]	3257	[4652, 4653]	5302	[6385, 1534]	7347	[3973, 7737]
1213	[2112, 720]	3258	[4654, 4516]	5303	[752, 4280]	7348	[7738, 1995]
1214	[2113, 2114]	3259	[4655, 2105]	5304	[6386, 2079]	7349	[7739, 4182]
1215	[2115, 1998]	3260	[4656, 4657]	5305	[1586, 6387]	7350	[7740, 6336]
1216	[756, 452]	3261	[42, 2162]	5306	[6388, 4171]	7351	[7741, 537]
1217	[2116, 2117]	3262	[4658, 1653]	5307	[6389, 594]	7352	[774, 4378]
1218	[2118, 2119]	3263	[4117, 4642]	5308	[6390, 4062]	7353	[167, 4464]
1219	[2120, 2121]	3264	[4659, 1942]	5309	[6391, 4902]	7354	[4883, 796]
1220	[2122, 2123]	3265	[4660, 3929]	5310	[6392, 2489]	7355	[7742, 4037]
1221	[2124, 2125]	3266	[4661, 4662]	5311	[2172, 6393]	7356	[7743, 2303]

1222	[2126, 2127]	3267	[2286, 4663]	5312	[6394, 2000]	7357	[1730, 4046]
1223	[2128, 2129]	3268	[4664, 1763]	5313	[2446, 2385]	7358	[6460, 7698]
1224	[2130, 2131]	3269	[4665, 2335]	5314	[6395, 2135]	7359	[1590, 6980]
1225	[2132, 2133]	3270	[4666, 493]	5315	[49, 3850]	7360	[7744, 2287]
1226	[2134, 219]	3271	[4667, 1536]	5316	[6396, 2517]	7361	[4991, 6487]
1227	[2135, 1624]	3272	[4668, 812]	5317	[2220, 4439]	7362	[2391, 1882]
1228	[2136, 2137]	3273	[4669, 1658]	5318	[6397, 4614]	7363	[7745, 6863]
1229	[2138, 503]	3274	[4670, 4671]	5319	[204, 830]	7364	[4050, 207]
1230	[2139, 2140]	3275	[4063, 4672]	5320	[6398, 3991]	7365	[7746, 4788]
1231	[1827, 2141]	3276	[4673, 2234]	5321	[6399, 492]	7366	[732, 7747]
1232	[2142, 2143]	3277	[4674, 4675]	5322	[6400, 4203]	7367	[2040, 7073]
1233	[2015, 2144]	3278	[4676, 2065]	5323	[6401, 4148]	7368	[7748, 6935]
1234	[2145, 2146]	3279	[4677, 4678]	5324	[6402, 4200]	7369	[4429, 2369]
1235	[1728, 2147]	3280	[4679, 457]	5325	[6403, 737]	7370	[7749, 6442]
1236	[2148, 2149]	3281	[4680, 2218]	5326	[4859, 2046]	7371	[2026, 4390]
1237	[2150, 2151]	3282	[4681, 4682]	5327	[6404, 4633]	7372	[4260, 3961]
1238	[181, 2152]	3283	[4683, 4155]	5328	[6405, 3887]	7373	[7750, 4932]
1239	[2153, 1836]	3284	[4684, 4685]	5329	[2133, 695]	7374	[2110, 2071]
1240	[2154, 2155]	3285	[4686, 4687]	5330	[6406, 722]	7375	[7751, 7073]
1241	[2156, 1738]	3286	[4688, 4367]	5331	[6407, 2134]	7376	[4076, 7723]
1242	[1876, 161]	3287	[4689, 4115]	5332	[6408, 1739]	7377	[6558, 4732]
1243	[1837, 2157]	3288	[4690, 167]	5333	[4728, 4114]	7378	[7752, 4448]
1244	[2158, 2159]	3289	[214, 4093]	5334	[6409, 4052]	7379	[4036, 2121]
1245	[2160, 1849]	3290	[4691, 3964]	5335	[6410, 4378]	7380	[4748, 7705]
1246	[2161, 183]	3291	[4129, 3898]	5336	[1699, 6411]	7381	[7753, 3883]
1247	[2162, 2163]	3292	[4692, 1703]	5337	[2106, 6412]	7382	[1576, 4907]
1248	[2164, 2165]	3293	[4693, 789]	5338	[6413, 1667]	7383	[7754, 2478]
1249	[2166, 2167]	3294	[4694, 1745]	5339	[6414, 4095]	7384	[218, 4893]
1250	[2168, 2169]	3295	[4695, 4696]	5340	[4158, 1872]	7385	[3938, 693]
1251	[763, 2170]	3296	[791, 736]	5341	[6415, 1715]	7386	[574, 3883]
1252	[2171, 2172]	3297	[1720, 2001]	5342	[4569, 4147]	7387	[4139, 4746]
1253	[2173, 2174]	3298	[4697, 2364]	5343	[6416, 4478]	7388	[7755, 6824]
1254	[2175, 2176]	3299	[1910, 4543]	5344	[2242, 4372]	7389	[1755, 6769]
1255	[640, 2153]	3300	[2315, 681]	5345	[2176, 1938]	7390	[44, 6353]
1256	[1890, 2177]	3301	[4698, 2214]	5346	[6417, 4644]	7391	[7756, 4831]
1257	[1899, 10]	3302	[4699, 4624]	5347	[6418, 6419]	7392	[7757, 7758]
1258	[648, 2178]	3303	[4700, 4569]	5348	[6420, 709]	7393	[578, 6404]
1259	[2179, 2114]	3304	[4701, 4034]	5349	[2127, 671]	7394	[7759, 51]
1260	[2180, 1556]	3305	[4702, 2024]	5350	[6421, 4572]	7395	[7760, 4187]
1261	[2181, 2182]	3306	[4703, 594]	5351	[6422, 6423]	7396	[7761, 6751]
1262	[2183, 1626]	3307	[4704, 4705]	5352	[689, 174]	7397	[4628, 6926]
1263	[2184, 2185]	3308	[4706, 4707]	5353	[6424, 1586]	7398	[3952, 6356]
1264	[2186, 56]	3309	[4708, 1606]	5354	[6425, 2048]	7399	[7762, 4780]
1265	[2187, 2188]	3310	[4709, 1567]	5355	[6426, 2]	7400	[3914, 6965]

1266	[2189, 1624]	3311	[2340, 4394]	5356	[6427, 4299]	7401	[7763, 154]
1267	[2190, 2191]	3312	[682, 2448]	5357	[6428, 6429]	7402	[6697, 6546]
1268	[2192, 787]	3313	[4365, 795]	5358	[4029, 6430]	7403	[816, 2059]
1269	[483, 1691]	3314	[4710, 752]	5359	[6431, 6388]	7404	[7764, 4415]
1270	[2193, 2194]	3315	[4711, 4283]	5360	[6432, 726]	7405	[7765, 7766]
1271	[2195, 2196]	3316	[4712, 1532]	5361	[6433, 2054]	7406	[7767, 3908]
1272	[2197, 2198]	3317	[4713, 4063]	5362	[4325, 2041]	7407	[4820, 6578]
1273	[2199, 1570]	3318	[4714, 4715]	5363	[6434, 6435]	7408	[7768, 666]
1274	[2200, 2201]	3319	[2418, 133]	5364	[6436, 3974]	7409	[7769, 6787]
1275	[2202, 837]	3320	[4716, 1549]	5365	[4399, 6437]	7410	[5037, 6910]
1276	[2203, 159]	3321	[4717, 1669]	5366	[6438, 4470]	7411	[7625, 4753]
1277	[2204, 2205]	3322	[4718, 2431]	5367	[4090, 4068]	7412	[6511, 2113]
1278	[2206, 801]	3323	[4719, 2167]	5368	[463, 2428]	7413	[3879, 2229]
1279	[2207, 691]	3324	[4720, 3862]	5369	[6439, 3990]	7414	[6457, 6692]
1280	[2208, 1761]	3325	[4382, 833]	5370	[6440, 4500]	7415	[7770, 7771]
1281	[2209, 2210]	3326	[4721, 1945]	5371	[6441, 4402]	7416	[4487, 4277]
1282	[2211, 2212]	3327	[4722, 4723]	5372	[2240, 6442]	7417	[4750, 4057]
1283	[2213, 53]	3328	[4640, 4724]	5373	[4946, 462]	7418	[3910, 2039]
1284	[2214, 2215]	3329	[4725, 4201]	5374	[6443, 4576]	7419	[7772, 4774]
1285	[2216, 2217]	3330	[4726, 1723]	5375	[6444, 712]	7420	[845, 4979]
1286	[2218, 127]	3331	[4727, 4728]	5376	[6445, 4650]	7421	[7773, 6939]
1287	[2219, 2220]	3332	[2426, 4729]	5377	[6446, 3849]	7422	[7774, 7775]
1288	[2221, 2222]	3333	[4730, 4615]	5378	[2165, 5139]	7423	[7776, 4563]
1289	[2223, 2224]	3334	[4731, 4732]	5379	[6447, 4311]	7424	[4161, 1957]
1290	[2225, 834]	3335	[4427, 2185]	5380	[6448, 3855]	7425	[467, 797]
1291	[2226, 2227]	3336	[4733, 3868]	5381	[6449, 4331]	7426	[7777, 7737]
1292	[2228, 2175]	3337	[4734, 4735]	5382	[6313, 4262]	7427	[2028, 1729]
1293	[2229, 1899]	3338	[4455, 1559]	5383	[6450, 4416]	7428	[5079, 4363]
1294	[2230, 2231]	3339	[1669, 4473]	5384	[6451, 4915]	7429	[7778, 629]
1295	[2232, 2233]	3340	[4736, 4662]	5385	[6452, 4916]	7430	[7779, 6904]
1296	[628, 2234]	3341	[4737, 4738]	5386	[2111, 204]	7431	[7780, 4390]
1297	[2235, 2236]	3342	[4739, 516]	5387	[6453, 4714]	7432	[7781, 1776]
1298	[2237, 142]	3343	[4740, 4741]	5388	[6307, 2453]	7433	[7782, 4620]
1299	[2238, 690]	3344	[4201, 4742]	5389	[6454, 218]	7434	[2275, 7783]
1300	[2239, 2240]	3345	[4743, 2140]	5390	[6455, 4323]	7435	[7784, 6290]
1301	[2241, 2242]	3346	[4579, 4674]	5391	[6456, 6457]	7436	[7785, 693]
1302	[2243, 2244]	3347	[4744, 2116]	5392	[6458, 798]	7437	[4419, 4889]
1303	[147, 1728]	3348	[4745, 4746]	5393	[4345, 3891]	7438	[2167, 3904]
1304	[2245, 1780]	3349	[4747, 2441]	5394	[671, 1964]	7439	[7786, 4469]
1305	[2246, 2247]	3350	[747, 1952]	5395	[6459, 6460]	7440	[4431, 1788]
1306	[1936, 2248]	3351	[4663, 4748]	5396	[6461, 2374]	7441	[7787, 4431]
1307	[2249, 2250]	3352	[4749, 453]	5397	[6462, 49]	7442	[7788, 4269]
1308	[2251, 811]	3353	[1565, 4484]	5398	[4979, 5046]	7443	[7789, 3913]
1309	[1804, 2139]	3354	[3941, 4750]	5399	[1588, 157]	7444	[7790, 3858]

1310	[2252, 2253]	3355	[4751, 4752]	5400	[6463, 6464]	7445	[7791, 4613]
1311	[2254, 1789]	3356	[4753, 4754]	5401	[6465, 3968]	7446	[7792, 4307]
1312	[2255, 699]	3357	[4755, 4461]	5402	[6466, 6467]	7447	[7793, 4429]
1313	[1902, 2256]	3358	[2311, 4756]	5403	[6468, 1636]	7448	[7794, 4552]
1314	[2257, 2258]	3359	[4757, 4758]	5404	[6333, 2513]	7449	[7795, 6592]
1315	[2259, 801]	3360	[4759, 2049]	5405	[3916, 6469]	7450	[6658, 687]
1316	[2260, 59]	3361	[4522, 4752]	5406	[1673, 6285]	7451	[7796, 5128]
1317	[2261, 2262]	3362	[4760, 4761]	5407	[6470, 6471]	7452	[7797, 779]
1318	[2263, 2119]	3363	[4304, 1771]	5408	[6472, 2400]	7453	[7798, 7799]
1319	[2264, 1616]	3364	[4762, 2411]	5409	[6473, 4835]	7454	[4850, 4687]
1320	[2265, 2266]	3365	[2121, 4370]	5410	[4915, 3867]	7455	[4732, 6626]
1321	[1561, 2267]	3366	[4763, 4764]	5411	[694, 4003]	7456	[4768, 3919]
1322	[1643, 2268]	3367	[4765, 1888]	5412	[6474, 1724]	7457	[7800, 2310]
1323	[2269, 2270]	3368	[2299, 4766]	5413	[6475, 5099]	7458	[4176, 6625]
1324	[2271, 2272]	3369	[4767, 4768]	5414	[6476, 5027]	7459	[4742, 6295]
1325	[2273, 1712]	3370	[4769, 4417]	5415	[2345, 6477]	7460	[5078, 6740]
1326	[2274, 2275]	3371	[4770, 2360]	5416	[6478, 2391]	7461	[7801, 134]
1327	[2276, 1887]	3372	[4771, 4681]	5417	[662, 1885]	7462	[7802, 4638]
1328	[2277, 768]	3373	[814, 496]	5418	[6479, 6437]	7463	[4221, 2488]
1329	[2278, 2279]	3374	[4284, 2317]	5419	[6480, 6481]	7464	[6712, 6292]
1330	[2280, 2281]	3375	[4772, 540]	5420	[1925, 4885]	7465	[7803, 6378]
1331	[711, 2282]	3376	[4773, 463]	5421	[6482, 6483]	7466	[7804, 7069]
1332	[2283, 2284]	3377	[4576, 3941]	5422	[6484, 3848]	7467	[7805, 2356]
1333	[2285, 2286]	3378	[4774, 1927]	5423	[1710, 5110]	7468	[644, 3979]
1334	[1606, 2287]	3379	[530, 2125]	5424	[6485, 3854]	7469	[7806, 2283]
1335	[2288, 2289]	3380	[4775, 544]	5425	[5110, 5137]	7470	[601, 7799]
1336	[2290, 595]	3381	[4776, 4333]	5426	[6486, 6487]	7471	[6752, 4178]
1337	[2291, 486]	3382	[4777, 2026]	5427	[6488, 4069]	7472	[7807, 6847]
1338	[572, 223]	3383	[4778, 1996]	5428	[6489, 1565]	7473	[1960, 4199]
1339	[2292, 1902]	3384	[4779, 2505]	5429	[6490, 533]	7474	[7605, 2485]
1340	[2293, 2257]	3385	[4780, 2275]	5430	[665, 6440]	7475	[6933, 32]
1341	[2294, 2295]	3386	[4781, 3933]	5431	[6491, 1774]	7476	[7808, 4193]
1342	[2296, 2297]	3387	[4782, 4065]	5432	[1540, 4062]	7477	[1750, 6933]
1343	[2298, 2299]	3388	[4783, 4433]	5433	[6492, 2155]	7478	[7809, 7747]
1344	[2300, 2301]	3389	[1947, 4461]	5434	[4126, 4120]	7479	[6506, 7639]
1345	[2302, 2303]	3390	[4784, 2186]	5435	[2032, 6493]	7480	[4244, 4415]
1346	[2304, 1720]	3391	[4785, 209]	5436	[6494, 4941]	7481	[2065, 4860]
1347	[2305, 1966]	3392	[4391, 1810]	5437	[5152, 4102]	7482	[7810, 1906]
1348	[2306, 2307]	3393	[4786, 1695]	5438	[5027, 5117]	7483	[4826, 2226]
1349	[2308, 2309]	3394	[4787, 4788]	5439	[6495, 1649]	7484	[7811, 6353]
1350	[2310, 2311]	3395	[4789, 4790]	5440	[10, 2191]	7485	[6915, 3924]
1351	[1932, 1580]	3396	[1773, 173]	5441	[2492, 3945]	7486	[7737, 7036]
1352	[2312, 2313]	3397	[4791, 4253]	5442	[6496, 1661]	7487	[7812, 615]
1353	[2314, 2315]	3398	[4792, 4107]	5443	[6497, 1730]	7488	[7813, 2148]

1354	[2316, 2317]	3399	[4793, 4794]	5444	[129, 689]	7489	[4421, 4955]
1355	[2318, 2319]	3400	[4795, 4796]	5445	[6498, 6499]	7490	[2374, 6875]
1356	[2320, 1648]	3401	[1697, 4741]	5446	[6500, 6501]	7491	[7814, 7655]
1357	[2321, 650]	3402	[4187, 4797]	5447	[6502, 1693]	7492	[6737, 2251]
1358	[2322, 2323]	3403	[2360, 531]	5448	[1853, 3916]	7493	[7815, 7639]
1359	[2324, 2325]	3404	[4798, 4756]	5449	[4115, 2038]	7494	[7816, 1904]
1360	[2326, 2040]	3405	[4799, 805]	5450	[6503, 1840]	7495	[3961, 6564]
1361	[2327, 838]	3406	[4173, 486]	5451	[6504, 1575]	7496	[7817, 4554]
1362	[1688, 2328]	3407	[4800, 4099]	5452	[552, 4335]	7497	[7818, 4639]
1363	[632, 1629]	3408	[4801, 1905]	5453	[6505, 6506]	7498	[7819, 4068]
1364	[2329, 175]	3409	[4802, 1783]	5454	[6507, 1735]	7499	[7820, 6500]
1365	[1791, 2313]	3410	[1661, 4355]	5455	[6366, 815]	7500	[4965, 4060]
1366	[2330, 2331]	3411	[4803, 4804]	5456	[2535, 6508]	7501	[7821, 2330]
1367	[532, 222]	3412	[715, 1564]	5457	[6509, 4209]	7502	[6387, 1933]
1368	[2332, 2333]	3413	[4805, 1842]	5458	[6510, 6511]	7503	[7822, 2017]
1369	[2334, 2092]	3414	[4806, 50]	5459	[6512, 6513]	7504	[7823, 5170]
1370	[457, 2335]	3415	[4807, 1761]	5460	[1930, 6483]	7505	[5099, 4845]
1371	[2336, 682]	3416	[4808, 1763]	5461	[6483, 2472]	7506	[6644, 2017]
1372	[2337, 2338]	3417	[4809, 2418]	5462	[6514, 2512]	7507	[655, 4815]
1373	[2339, 2340]	3418	[4810, 4446]	5463	[6515, 3930]	7508	[7824, 4262]
1374	[2341, 2001]	3419	[587, 2230]	5464	[6516, 6517]	7509	[7825, 1882]
1375	[2342, 2343]	3420	[820, 1793]	5465	[6518, 4815]	7510	[7826, 4322]
1376	[2344, 2345]	3421	[4811, 4812]	5466	[6309, 624]	7511	[7827, 4373]
1377	[2346, 2347]	3422	[4813, 630]	5467	[6519, 1929]	7512	[7828, 1683]
1378	[2348, 2349]	3423	[772, 4812]	5468	[6520, 4126]	7513	[7829, 7625]
1379	[2350, 2192]	3424	[4814, 4589]	5469	[6521, 5025]	7514	[7830, 6443]
1380	[2351, 1525]	3425	[4815, 562]	5470	[6522, 4657]	7515	[7831, 2392]
1381	[2352, 2353]	3426	[595, 2137]	5471	[6523, 1719]	7516	[3896, 4455]
1382	[1893, 2110]	3427	[2077, 4707]	5472	[6524, 2027]	7517	[7832, 122]
1383	[2354, 2355]	3428	[2470, 4816]	5473	[6525, 1970]	7518	[6358, 708]
1384	[2356, 2357]	3429	[2163, 4817]	5474	[6526, 4537]	7519	[3856, 4182]
1385	[2358, 59]	3430	[4818, 4026]	5475	[6527, 3882]	7520	[7833, 4845]
1386	[766, 2220]	3431	[4545, 4819]	5476	[5139, 2522]	7521	[6939, 6792]
1387	[2359, 2053]	3432	[1649, 4419]	5477	[149, 4021]	7522	[7834, 1777]
1388	[2353, 2360]	3433	[2081, 4820]	5478	[6528, 5117]	7523	[5087, 150]
1389	[2361, 2098]	3434	[4821, 2135]	5479	[6529, 1707]	7524	[2309, 4283]
1390	[2362, 1613]	3435	[4822, 680]	5480	[4410, 4144]	7525	[7835, 6737]
1391	[2363, 2364]	3436	[4823, 4824]	5481	[5060, 593]	7526	[7836, 6333]
1392	[2365, 2366]	3437	[1625, 574]	5482	[4879, 6530]	7527	[6423, 4629]
1393	[2367, 2069]	3438	[4825, 4826]	5483	[4571, 2004]	7528	[4572, 4236]
1394	[2368, 610]	3439	[4827, 4760]	5484	[6531, 6412]	7529	[4442, 4489]
1395	[2369, 589]	3440	[4828, 4829]	5485	[6532, 1635]	7530	[4196, 7766]
1396	[2084, 2370]	3441	[4830, 524]	5486	[6533, 1684]	7531	[7837, 3922]
1397	[2217, 2257]	3442	[4831, 2526]	5487	[4998, 2008]	7532	[7838, 2454]

1398	[2371, 1969]	3443	[2069, 4230]	5488	[6429, 1766]	7533	[7649, 7587]
1399	[2372, 2373]	3444	[2443, 4458]	5489	[6534, 2369]	7534	[4824, 1702]
1400	[2170, 2374]	3445	[4321, 4460]	5490	[6535, 1853]	7535	[7839, 1820]
1401	[475, 2375]	3446	[4832, 4833]	5491	[6536, 6292]	7536	[4636, 6734]
1402	[2376, 1560]	3447	[4834, 3909]	5492	[4653, 4328]	7537	[2484, 6388]
1403	[2377, 2378]	3448	[4835, 4836]	5493	[6537, 3947]	7538	[7840, 813]
1404	[2379, 2380]	3449	[4837, 4221]	5494	[6538, 1930]	7539	[2388, 7841]
1405	[2381, 1577]	3450	[4838, 1801]	5495	[6539, 4480]	7540	[7842, 3869]
1406	[2382, 2383]	3451	[4839, 4559]	5496	[6540, 4802]	7541	[4833, 6506]
1407	[540, 2384]	3452	[4840, 1742]	5497	[4357, 4988]	7542	[7843, 197]
1408	[2385, 2386]	3453	[4841, 4842]	5498	[4355, 6541]	7543	[1555, 1995]
1409	[2387, 2388]	3454	[4169, 4098]	5499	[1852, 4849]	7544	[6906, 4564]
1410	[2389, 2390]	3455	[4843, 515]	5500	[1615, 2344]	7545	[7844, 6740]
1411	[1843, 2391]	3456	[4844, 696]	5501	[6530, 5107]	7546	[7845, 5133]
1412	[1762, 2392]	3457	[4845, 4787]	5502	[4589, 4795]	7547	[605, 1801]
1413	[2393, 738]	3458	[4846, 4311]	5503	[2234, 5158]	7548	[7846, 6401]
1414	[2394, 2072]	3459	[4847, 1538]	5504	[4425, 2174]	7549	[4273, 4832]
1415	[212, 2395]	3460	[538, 4340]	5505	[6542, 717]	7550	[2159, 2310]
1416	[2396, 2397]	3461	[4848, 780]	5506	[3998, 4397]	7551	[7847, 4903]
1417	[2398, 2399]	3462	[4849, 4850]	5507	[5137, 2087]	7552	[7848, 1885]
1418	[2400, 2401]	3463	[4851, 1881]	5508	[6543, 2106]	7553	[7849, 4610]
1419	[1813, 2402]	3464	[4852, 4853]	5509	[2222, 614]	7554	[7850, 4356]
1420	[2042, 2403]	3465	[4854, 3912]	5510	[6544, 4018]	7555	[6467, 633]
1421	[2404, 2405]	3466	[4855, 2377]	5511	[6545, 545]	7556	[7851, 3967]
1422	[2406, 2153]	3467	[1744, 1988]	5512	[6546, 2322]	7557	[7852, 6404]
1423	[2380, 171]	3468	[4856, 1563]	5513	[6547, 3895]	7558	[7853, 1823]
1424	[2407, 2408]	3469	[3898, 2388]	5514	[6548, 2041]	7559	[7854, 6980]
1425	[2409, 1877]	3470	[4857, 4457]	5515	[6549, 2398]	7560	[7855, 6940]
1426	[2410, 2151]	3471	[4858, 4859]	5516	[6550, 2215]	7561	[7856, 6590]
1427	[2411, 2412]	3472	[4860, 4861]	5517	[6551, 2494]	7562	[6326, 6956]
1428	[2413, 234]	3473	[4862, 1874]	5518	[6552, 4682]	7563	[1797, 2398]
1429	[2414, 2415]	3474	[51, 4834]	5519	[6553, 4910]	7564	[7857, 1943]
1430	[2416, 2196]	3475	[4863, 2227]	5520	[6541, 4802]	7565	[7858, 4818]
1431	[2417, 2418]	3476	[4864, 2213]	5521	[6554, 1781]	7566	[4404, 4779]
1432	[2419, 2420]	3477	[4865, 4669]	5522	[4243, 1820]	7567	[6642, 7602]
1433	[1571, 2182]	3478	[4866, 2200]	5523	[6555, 6556]	7568	[3863, 7614]
1434	[2421, 2282]	3479	[14, 3980]	5524	[6557, 6558]	7569	[7023, 4936]
1435	[2422, 2171]	3480	[4867, 685]	5525	[6559, 4478]	7570	[7859, 4782]
1436	[2423, 2424]	3481	[2224, 2449]	5526	[2303, 5130]	7571	[4982, 6662]
1437	[2425, 2426]	3482	[597, 1596]	5527	[2295, 6560]	7572	[7860, 6601]
1438	[2427, 2428]	3483	[4385, 647]	5528	[6561, 6332]	7573	[7861, 4560]
1439	[1604, 2429]	3484	[4868, 1978]	5529	[6562, 458]	7574	[7862, 4138]
1440	[836, 1603]	3485	[4869, 2240]	5530	[6563, 6564]	7575	[749, 4957]
1441	[1602, 1605]	3486	[4870, 2286]	5531	[6565, 6339]	7576	[7863, 7082]

1442	[2430, 2431]	3487	[4871, 2345]	5532	[6566, 4237]	7577	[2313, 2031]
1443	[163, 2330]	3488	[3945, 4359]	5533	[6567, 4084]	7578	[4480, 1776]
1444	[2432, 1582]	3489	[4872, 611]	5534	[6568, 4235]	7579	[7864, 6556]
1445	[2433, 2434]	3490	[4873, 4428]	5535	[6569, 2057]	7580	[7799, 7761]
1446	[2435, 1530]	3491	[4874, 4875]	5536	[6570, 5048]	7581	[7865, 7671]
1447	[2436, 2437]	3492	[4876, 2117]	5537	[2231, 6571]	7582	[6976, 6778]
1448	[2438, 637]	3493	[4164, 732]	5538	[1534, 4410]	7583	[7866, 4293]
1449	[2439, 2440]	3494	[2178, 753]	5539	[6572, 2324]	7584	[7867, 6311]
1450	[1569, 2441]	3495	[4877, 3998]	5540	[177, 665]	7585	[3620, 5486]
1451	[2442, 2443]	3496	[2373, 1971]	5541	[6573, 2402]	7586	[7868, 2689]
1452	[2444, 2445]	3497	[4878, 4879]	5542	[4122, 4656]	7587	[7869, 5790]
1453	[2375, 2446]	3498	[4880, 4332]	5543	[4829, 4158]	7588	[1092, 3181]
1454	[2447, 2389]	3499	[4881, 2149]	5544	[6574, 4482]	7589	[7870, 5345]
1455	[2448, 1618]	3500	[4001, 1968]	5545	[6575, 149]	7590	[5511, 895]
1456	[2449, 2338]	3501	[4882, 4883]	5546	[1724, 6322]	7591	[7871, 907]
1457	[2450, 2451]	3502	[4884, 4885]	5547	[669, 4835]	7592	[3357, 371]
1458	[800, 2452]	3503	[634, 3858]	5548	[6576, 1802]	7593	[7872, 7101]
1459	[2453, 2454]	3504	[4886, 45]	5549	[6577, 6578]	7594	[5986, 3127]
1460	[2455, 2456]	3505	[4887, 1961]	5550	[4082, 1630]	7595	[1213, 94]
1461	[1854, 2302]	3506	[4888, 4889]	5551	[6579, 5096]	7596	[3672, 74]
1462	[2457, 538]	3507	[4890, 2085]	5552	[653, 1912]	7597	[7873, 3238]
1463	[2458, 2459]	3508	[4891, 4892]	5553	[6580, 2497]	7598	[281, 3652]
1464	[2460, 2461]	3509	[4893, 3990]	5554	[5120, 6514]	7599	[7874, 2648]
1465	[2462, 2096]	3510	[2201, 2342]	5555	[6581, 4772]	7600	[7875, 5791]
1466	[2463, 2464]	3511	[837, 712]	5556	[6582, 784]	7601	[7876, 3418]
1467	[2465, 1718]	3512	[4624, 586]	5557	[6583, 4226]	7602	[7877, 1129]
1468	[2466, 2320]	3513	[4894, 1846]	5558	[6584, 3954]	7603	[862, 1039]
1469	[2467, 2468]	3514	[4895, 541]	5559	[4671, 4043]	7604	[7878, 1137]
1470	[2469, 2470]	3515	[4896, 4584]	5560	[6585, 4017]	7605	[7879, 5532]
1471	[2323, 1653]	3516	[4897, 4768]	5561	[6586, 4019]	7606	[7880, 2769]
1472	[2471, 1698]	3517	[4898, 804]	5562	[776, 3877]	7607	[20, 321]
1473	[2472, 2473]	3518	[1872, 4899]	5563	[6587, 4850]	7608	[417, 2563]
1474	[2474, 718]	3519	[4900, 4821]	5564	[6588, 2158]	7609	[7881, 2801]
1475	[2475, 2005]	3520	[4901, 1990]	5565	[6589, 168]	7610	[7882, 3319]
1476	[2476, 2477]	3521	[4902, 4341]	5566	[1894, 6590]	7611	[1266, 1262]
1477	[2478, 2479]	3522	[173, 4846]	5567	[6591, 1734]	7612	[7883, 3676]
1478	[2480, 2459]	3523	[4903, 843]	5568	[6592, 813]	7613	[3036, 7154]
1479	[2481, 2482]	3524	[4904, 3938]	5569	[6593, 642]	7614	[7884, 5766]
1480	[2483, 2484]	3525	[1897, 1743]	5570	[4218, 6594]	7615	[6099, 2763]
1481	[2485, 2486]	3526	[4905, 1836]	5571	[6595, 2343]	7616	[2914, 3207]
1482	[2487, 1931]	3527	[4906, 4907]	5572	[6596, 3904]	7617	[5848, 3666]
1483	[2488, 2489]	3528	[4908, 824]	5573	[6597, 2172]	7618	[7885, 5551]
1484	[209, 2200]	3529	[4909, 1864]	5574	[4103, 489]	7619	[1154, 1008]
1485	[2490, 823]	3530	[4910, 598]	5575	[6598, 6599]	7620	[5739, 3528]

1486	[1786, 2491]	3531	[2108, 4911]	5576	[6600, 6601]	7621	[2827, 3095]
1487	[802, 2492]	3532	[1807, 217]	5577	[6602, 4526]	7622	[7886, 2542]
1488	[2493, 2311]	3533	[4912, 4088]	5578	[6603, 5079]	7623	[5302, 6099]
1489	[2494, 227]	3534	[4913, 166]	5579	[6604, 6605]	7624	[3324, 1030]
1490	[2495, 531]	3535	[4914, 4915]	5580	[6606, 4040]	7625	[7887, 5369]
1491	[2496, 2497]	3536	[1978, 4916]	5581	[6607, 1749]	7626	[7888, 2642]
1492	[2498, 1973]	3537	[4875, 4382]	5582	[2125, 2476]	7627	[2884, 3036]
1493	[2499, 2436]	3538	[4917, 713]	5583	[4265, 727]	7628	[7889, 368]
1494	[2500, 1767]	3539	[4918, 4598]	5584	[4267, 6339]	7629	[7890, 3562]
1495	[2501, 2502]	3540	[4919, 4163]	5585	[6608, 2095]	7630	[7891, 2800]
1496	[2503, 2504]	3541	[4920, 233]	5586	[6609, 2416]	7631	[5399, 6158]
1497	[2505, 2506]	3542	[4921, 553]	5587	[6610, 2197]	7632	[1207, 2984]
1498	[2507, 2295]	3543	[4922, 4601]	5588	[6611, 5008]	7633	[7892, 5235]
1499	[2508, 2509]	3544	[570, 1546]	5589	[6612, 3972]	7634	[7893, 2625]
1500	[2510, 2511]	3545	[4923, 4056]	5590	[6613, 6614]	7635	[7894, 3445]
1501	[2512, 591]	3546	[4924, 728]	5591	[6615, 4761]	7636	[2856, 5553]
1502	[2513, 1587]	3547	[4925, 2481]	5592	[4524, 4760]	7637	[5500, 3723]
1503	[2514, 2515]	3548	[4926, 4007]	5593	[6616, 4290]	7638	[1218, 5681]
1504	[2355, 2063]	3549	[1718, 2116]	5594	[6617, 4860]	7639	[7895, 7115]
1505	[2516, 2208]	3550	[4927, 1901]	5595	[6618, 3856]	7640	[7896, 5725]
1506	[2198, 2517]	3551	[4928, 3912]	5596	[4498, 2171]	7641	[6018, 2680]
1507	[544, 2518]	3552	[4929, 4930]	5597	[6619, 2253]	7642	[7897, 2644]
1508	[2519, 2520]	3553	[2328, 4428]	5598	[6620, 4887]	7643	[7898, 2918]
1509	[2521, 2522]	3554	[121, 1593]	5599	[5048, 6342]	7644	[3396, 2905]
1510	[2523, 2524]	3555	[4931, 2533]	5600	[6621, 6622]	7645	[5565, 5525]
1511	[2525, 213]	3556	[4932, 158]	5601	[6623, 833]	7646	[7899, 3026]
1512	[2526, 810]	3557	[4933, 2505]	5602	[6624, 6625]	7647	[7900, 3363]
1513	[1544, 2527]	3558	[4934, 4935]	5603	[1906, 2318]	7648	[7901, 1206]
1514	[2528, 2529]	3559	[4936, 2515]	5604	[6626, 1953]	7649	[7902, 428]
1515	[1619, 2494]	3560	[4937, 4677]	5605	[459, 4112]	7650	[1144, 83]
1516	[2530, 2531]	3561	[4938, 4597]	5606	[6627, 753]	7651	[2938, 6244]
1517	[2532, 2533]	3562	[2000, 1985]	5607	[6628, 6629]	7652	[916, 2622]
1518	[2534, 2535]	3563	[4939, 4940]	5608	[6630, 1688]	7653	[5559, 1493]
1519	[2536, 2446]	3564	[4941, 4261]	5609	[6631, 721]	7654	[3249, 1275]
1520	[2537, 1811]	3565	[4942, 1833]	5610	[1769, 5015]	7655	[7903, 5234]
1521	[2538, 1824]	3566	[4943, 790]	5611	[6632, 6633]	7656	[2575, 1317]
1522	[2539, 548]	3567	[4916, 690]	5612	[6634, 2481]	7657	[7904, 2938]
1523	[2540, 2541]	3568	[4944, 802]	5613	[4752, 4266]	7658	[3801, 2692]
1524	[864, 1389]	3569	[4945, 4946]	5614	[4761, 4530]	7659	[7905, 2959]
1525	[309, 2542]	3570	[4947, 4217]	5615	[1918, 1918]	7660	[7906, 1467]
1526	[2543, 376]	3571	[4948, 2535]	5616	[1833, 2105]	7661	[2675, 1295]
1527	[2544, 380]	3572	[4949, 4950]	5617	[6635, 4265]	7662	[7907, 1102]
1528	[2545, 372]	3573	[4951, 2177]	5618	[3876, 6554]	7663	[401, 5284]
1529	[2546, 1316]	3574	[4952, 7]	5619	[6636, 1968]	7664	[1362, 5772]

1530	[2547, 105]	3575	[4953, 4954]	5620	[2364, 1581]	7665	[959, 901]
1531	[2548, 954]	3576	[4955, 3926]	5621	[6637, 4414]	7666	[7908, 5740]
1532	[2549, 2550]	3577	[4956, 4215]	5622	[1775, 5132]	7667	[7909, 2945]
1533	[1244, 2551]	3578	[4957, 4958]	5623	[141, 721]	7668	[963, 5439]
1534	[2552, 2553]	3579	[4959, 4960]	5624	[6638, 4284]	7669	[7910, 5555]
1535	[2554, 2555]	3580	[4961, 1901]	5625	[6639, 4464]	7670	[3145, 3492]
1536	[2556, 2557]	3581	[4685, 2363]	5626	[6640, 4670]	7671	[7911, 3593]
1537	[2558, 2559]	3582	[4962, 2452]	5627	[6641, 3980]	7672	[3175, 2774]
1538	[1450, 1433]	3583	[4954, 3934]	5628	[3932, 6435]	7673	[7912, 900]
1539	[2560, 2561]	3584	[4963, 2532]	5629	[2384, 2534]	7674	[7913, 3174]
1540	[2562, 2563]	3585	[4964, 1894]	5630	[691, 4366]	7675	[7914, 5785]
1541	[2564, 2565]	3586	[4853, 4965]	5631	[2147, 6642]	7676	[7915, 5866]
1542	[2566, 2567]	3587	[3881, 3903]	5632	[1822, 4074]	7677	[2890, 3355]
1543	[2568, 2569]	3588	[4966, 4967]	5633	[724, 2349]	7678	[2944, 3015]
1544	[1045, 2570]	3589	[4494, 4649]	5634	[6643, 6644]	7679	[5514, 3251]
1545	[961, 2571]	3590	[4968, 4439]	5635	[6645, 2491]	7680	[5715, 3049]
1546	[1064, 414]	3591	[2140, 4941]	5636	[6646, 4055]	7681	[7916, 415]
1547	[269, 110]	3592	[4969, 542]	5637	[6435, 2168]	7682	[2624, 5561]
1548	[2572, 2573]	3593	[4970, 3859]	5638	[6647, 4671]	7683	[329, 3664]
1549	[2574, 2575]	3594	[4971, 4545]	5639	[6648, 4587]	7684	[3549, 5919]
1550	[2576, 2577]	3595	[4972, 4636]	5640	[6649, 1605]	7685	[7917, 1236]
1551	[2578, 2579]	3596	[4973, 2448]	5641	[6650, 4998]	7686	[7918, 1085]
1552	[2580, 394]	3597	[4974, 1632]	5642	[6651, 4223]	7687	[2565, 3836]
1553	[948, 2581]	3598	[4975, 4764]	5643	[673, 6451]	7688	[6178, 3757]
1554	[2582, 2583]	3599	[4976, 4977]	5644	[6652, 5033]	7689	[3547, 3366]
1555	[2584, 2585]	3600	[4978, 4979]	5645	[6653, 6642]	7690	[5681, 5247]
1556	[2586, 2587]	3601	[4980, 1588]	5646	[4610, 4316]	7691	[7919, 852]
1557	[2588, 2589]	3602	[4981, 4982]	5647	[6654, 2401]	7692	[5312, 5279]
1558	[2590, 2591]	3603	[2502, 4679]	5648	[6655, 1757]	7693	[7920, 2579]
1559	[2592, 2593]	3604	[4983, 815]	5649	[6656, 2318]	7694	[7921, 1368]
1560	[2577, 2594]	3605	[4984, 4422]	5650	[6657, 6658]	7695	[3559, 1019]
1561	[2579, 1042]	3606	[2086, 4913]	5651	[6659, 4263]	7696	[993, 3584]
1562	[2595, 2596]	3607	[4985, 36]	5652	[4152, 1896]	7697	[3198, 2583]
1563	[2597, 1298]	3608	[3891, 4081]	5653	[6660, 1909]	7698	[7922, 3065]
1564	[1307, 2598]	3609	[4986, 4804]	5654	[503, 523]	7699	[7923, 3623]
1565	[2599, 2600]	3610	[4987, 4988]	5655	[143, 4213]	7700	[7924, 3031]
1566	[2601, 2602]	3611	[4889, 4989]	5656	[6661, 2030]	7701	[3179, 5638]
1567	[2603, 2604]	3612	[4990, 1562]	5657	[6662, 1574]	7702	[84, 5910]
1568	[2605, 2606]	3613	[674, 4991]	5658	[616, 4910]	7703	[7925, 3525]
1569	[285, 2607]	3614	[4992, 4993]	5659	[6663, 6347]	7704	[7926, 1382]
1570	[2608, 2609]	3615	[4147, 4728]	5660	[6664, 6665]	7705	[7927, 5695]
1571	[2610, 2611]	3616	[4994, 4995]	5661	[1654, 4084]	7706	[7928, 2549]
1572	[1305, 2612]	3617	[4796, 558]	5662	[6666, 4218]	7707	[5895, 3097]
1573	[2613, 2614]	3618	[4996, 4150]	5663	[6412, 4677]	7708	[7929, 5420]

1574	[2615, 2616]	3619	[4997, 4797]	5664	[6667, 6416]	7709	[2648, 240]
1575	[2617, 2618]	3620	[4016, 4998]	5665	[6668, 142]	7710	[7930, 3064]
1576	[2619, 2620]	3621	[4999, 4003]	5666	[6469, 6669]	7711	[3768, 5535]
1577	[2621, 2622]	3622	[2279, 805]	5667	[6670, 1686]	7712	[3091, 3391]
1578	[2623, 2624]	3623	[566, 576]	5668	[6671, 523]	7713	[7931, 5613]
1579	[2625, 2626]	3624	[2464, 4107]	5669	[6672, 2472]	7714	[279, 2655]
1580	[2627, 2628]	3625	[5000, 783]	5670	[6673, 4754]	7715	[7932, 3053]
1581	[967, 1160]	3626	[5001, 2276]	5671	[1574, 4435]	7716	[7219, 5667]
1582	[2629, 2630]	3627	[4297, 4628]	5672	[6674, 4993]	7717	[7933, 1092]
1583	[2631, 2632]	3628	[2518, 2214]	5673	[5008, 720]	7718	[7934, 2935]
1584	[2633, 2634]	3629	[5002, 4451]	5674	[6675, 4825]	7719	[7935, 5620]
1585	[2635, 2636]	3630	[5003, 210]	5675	[4899, 2074]	7720	[3172, 1132]
1586	[1030, 2552]	3631	[4861, 3887]	5676	[6676, 4703]	7721	[3749, 1330]
1587	[2637, 2638]	3632	[5004, 4513]	5677	[6669, 4667]	7722	[7936, 2570]
1588	[2639, 2640]	3633	[5005, 826]	5678	[6677, 5040]	7723	[7937, 3002]
1589	[2641, 1300]	3634	[4397, 5006]	5679	[6678, 606]	7724	[7938, 3526]
1590	[2640, 2642]	3635	[5007, 5008]	5680	[6679, 6680]	7725	[1504, 5837]
1591	[2643, 2644]	3636	[4059, 2281]	5681	[6681, 613]	7726	[444, 6131]
1592	[2645, 2646]	3637	[5009, 3888]	5682	[6682, 6508]	7727	[7939, 3693]
1593	[236, 2647]	3638	[2268, 718]	5683	[6683, 2093]	7728	[1028, 346]
1594	[238, 2648]	3639	[4416, 4163]	5684	[6684, 4530]	7729	[1005, 5250]
1595	[2649, 2650]	3640	[761, 3996]	5685	[6685, 4544]	7730	[7940, 5720]
1596	[2651, 2652]	3641	[542, 631]	5686	[2196, 2396]	7731	[7941, 1305]
1597	[359, 2653]	3642	[5010, 3966]	5687	[6686, 2100]	7732	[1437, 5669]
1598	[2654, 2655]	3643	[4650, 2212]	5688	[6687, 2248]	7733	[7942, 5349]
1599	[2656, 1217]	3644	[5011, 1709]	5689	[2281, 6688]	7734	[7943, 3692]
1600	[2657, 1206]	3645	[5012, 4679]	5690	[6689, 2100]	7735	[7944, 5592]
1601	[2658, 2659]	3646	[5013, 5002]	5691	[477, 1735]	7736	[7945, 853]
1602	[2660, 2661]	3647	[5014, 4324]	5692	[4911, 6331]	7737	[7946, 5796]
1603	[896, 2662]	3648	[5015, 189]	5693	[6690, 2242]	7738	[388, 3165]
1604	[1510, 2625]	3649	[1627, 1612]	5694	[6691, 6692]	7739	[3234, 925]
1605	[2659, 2663]	3650	[5016, 1783]	5695	[6693, 1986]	7740	[5431, 880]
1606	[2661, 2664]	3651	[53, 5017]	5696	[6694, 1557]	7741	[7947, 3620]
1607	[2665, 2666]	3652	[5018, 4129]	5697	[1878, 2143]	7742	[7948, 3547]
1608	[2667, 2668]	3653	[4885, 5019]	5698	[6695, 4306]	7743	[7949, 5858]
1609	[1376, 2669]	3654	[5020, 232]	5699	[6696, 6571]	7744	[2898, 3817]
1610	[2670, 357]	3655	[5021, 2035]	5700	[2157, 6697]	7745	[1415, 2559]
1611	[2671, 2672]	3656	[2412, 4039]	5701	[6698, 6699]	7746	[7950, 3362]
1612	[2673, 2674]	3657	[5022, 4784]	5702	[6700, 2435]	7747	[7951, 5624]
1613	[1122, 2675]	3658	[5023, 4197]	5703	[609, 3869]	7748	[7952, 115]
1614	[2676, 2587]	3659	[5024, 2366]	5704	[6701, 525]	7749	[7275, 1326]
1615	[2677, 2678]	3660	[638, 177]	5705	[6702, 6307]	7750	[5271, 5216]
1616	[2679, 2680]	3661	[526, 5025]	5706	[145, 2013]	7751	[1054, 890]
1617	[2681, 2682]	3662	[5026, 5027]	5707	[4235, 6467]	7752	[7953, 2780]

1618	[1211, 971]	3663	[1874, 845]	5708	[6703, 6422]	7753	[7954, 3509]
1619	[2596, 438]	3664	[5028, 3920]	5709	[6704, 4380]	7754	[7955, 847]
1620	[2683, 2684]	3665	[5029, 5030]	5710	[4067, 4661]	7755	[7179, 3551]
1621	[2685, 2686]	3666	[5031, 3914]	5711	[6705, 6706]	7756	[3216, 3524]
1622	[2687, 1332]	3667	[1594, 4594]	5712	[6707, 839]	7757	[1309, 5248]
1623	[1075, 2688]	3668	[5032, 2296]	5713	[6708, 6393]	7758	[7956, 2576]
1624	[2689, 2690]	3669	[4584, 2213]	5714	[224, 1859]	7759	[7957, 5303]
1625	[2691, 2629]	3670	[2445, 1970]	5715	[1701, 4821]	7760	[3685, 3045]
1626	[2692, 388]	3671	[5033, 1635]	5716	[6709, 1948]	7761	[7958, 2610]
1627	[2693, 2694]	3672	[5034, 3863]	5717	[6710, 4729]	7762	[7959, 1258]
1628	[2695, 2696]	3673	[5035, 1813]	5718	[4178, 600]	7763	[7960, 304]
1629	[2697, 2657]	3674	[5036, 5037]	5719	[2090, 6635]	7764	[7961, 873]
1630	[2698, 2699]	3675	[5038, 5039]	5720	[6625, 3928]	7765	[2594, 6178]
1631	[2700, 2701]	3676	[522, 4108]	5721	[6711, 6712]	7766	[7962, 6148]
1632	[2702, 2703]	3677	[5040, 1790]	5722	[6713, 4317]	7767	[3153, 941]
1633	[2704, 2705]	3678	[5041, 4536]	5723	[6714, 2363]	7768	[1147, 5273]
1634	[2706, 2707]	3679	[5042, 4603]	5724	[1966, 2424]	7769	[7963, 2640]
1635	[2708, 2709]	3680	[1824, 2208]	5725	[511, 1815]	7770	[3317, 1147]
1636	[2710, 1247]	3681	[4723, 1524]	5726	[6715, 6575]	7771	[7964, 3210]
1637	[2711, 2685]	3682	[5043, 130]	5727	[6716, 2504]	7772	[7965, 5478]
1638	[2712, 2713]	3683	[4056, 519]	5728	[125, 4211]	7773	[5360, 1510]
1639	[2714, 2715]	3684	[5044, 3935]	5729	[6717, 621]	7774	[5288, 5865]
1640	[2716, 446]	3685	[5045, 5046]	5730	[2143, 6517]	7775	[7966, 5985]
1641	[2717, 1156]	3686	[5047, 5048]	5731	[6718, 4975]	7776	[7967, 1342]
1642	[2718, 2719]	3687	[5049, 4899]	5732	[3895, 6658]	7777	[5397, 426]
1643	[1340, 1313]	3688	[4006, 165]	5733	[4291, 4226]	7778	[7968, 5344]
1644	[2720, 2721]	3689	[5050, 4184]	5734	[6719, 3911]	7779	[1136, 1498]
1645	[2722, 2723]	3690	[3886, 4352]	5735	[6720, 4257]	7780	[1130, 2921]
1646	[2724, 2725]	3691	[5051, 612]	5736	[6721, 1576]	7781	[1342, 5548]
1647	[2726, 2727]	3692	[2531, 1706]	5737	[4738, 1615]	7782	[7969, 432]
1648	[2728, 2729]	3693	[5052, 4766]	5738	[6722, 2255]	7783	[7970, 3309]
1649	[2730, 2731]	3694	[2266, 4961]	5739	[6723, 4861]	7784	[1372, 421]
1650	[2732, 2733]	3695	[5053, 4501]	5740	[6688, 3964]	7785	[1138, 1276]
1651	[2734, 1020]	3696	[4342, 4014]	5741	[6724, 1740]	7786	[7971, 1117]
1652	[2735, 2736]	3697	[5054, 2039]	5742	[6725, 6555]	7787	[7972, 2725]
1653	[2737, 2738]	3698	[626, 1876]	5743	[6726, 745]	7788	[3365, 5508]
1654	[2739, 287]	3699	[5055, 5056]	5744	[6727, 6728]	7789	[7973, 5850]
1655	[2740, 2741]	3700	[5057, 2453]	5745	[6729, 6730]	7790	[1205, 3009]
1656	[2742, 272]	3701	[5058, 4468]	5746	[6731, 1762]	7791	[7974, 2564]
1657	[2743, 1423]	3702	[5059, 5060]	5747	[6732, 1708]	7792	[7975, 5244]
1658	[448, 24]	3703	[5061, 2323]	5748	[6733, 2144]	7793	[1257, 3347]
1659	[2744, 2745]	3704	[5062, 4006]	5749	[6734, 4477]	7794	[7976, 5433]
1660	[2746, 2747]	3705	[5063, 667]	5750	[6735, 1687]	7795	[7977, 442]
1661	[2748, 2749]	3706	[4125, 1682]	5751	[6736, 4995]	7796	[7978, 427]

1662	[2750, 1254]	3707	[5064, 4958]	5752	[1618, 6737]	7797	[7979, 1423]
1663	[1441, 891]	3708	[5065, 788]	5753	[6738, 5088]	7798	[1434, 5778]
1664	[2751, 2752]	3709	[4384, 2205]	5754	[6739, 1991]	7799	[7980, 5298]
1665	[2753, 2754]	3710	[4715, 5066]	5755	[6740, 778]	7800	[1178, 5601]
1666	[2755, 2756]	3711	[5030, 1994]	5756	[4209, 6741]	7801	[5865, 264]
1667	[2757, 2564]	3712	[5067, 507]	5757	[6742, 1729]	7802	[7981, 2766]
1668	[2758, 2759]	3713	[700, 2531]	5758	[6743, 1781]	7803	[7982, 3765]
1669	[2760, 2761]	3714	[5068, 631]	5759	[6744, 4174]	7804	[2796, 3237]
1670	[2762, 320]	3715	[5069, 1660]	5760	[6745, 2259]	7805	[7983, 1439]
1671	[2763, 2764]	3716	[568, 4237]	5761	[1572, 1834]	7806	[7984, 2992]
1672	[2765, 2766]	3717	[495, 2165]	5762	[6746, 4258]	7807	[3229, 440]
1673	[2767, 2768]	3718	[5070, 5071]	5763	[2036, 2052]	7808	[7985, 3070]
1674	[2769, 2770]	3719	[5072, 1994]	5764	[6747, 6295]	7809	[3544, 1053]
1675	[2771, 2772]	3720	[5073, 4834]	5765	[6748, 4366]	7810	[1195, 5913]
1676	[1186, 2773]	3721	[5074, 1659]	5766	[6749, 123]	7811	[5353, 5470]
1677	[2774, 372]	3722	[1557, 4825]	5767	[545, 4660]	7812	[5942, 1150]
1678	[2775, 2776]	3723	[5075, 1566]	5768	[6750, 743]	7813	[409, 3422]
1679	[2777, 341]	3724	[5076, 4029]	5769	[2451, 4638]	7814	[7986, 375]
1680	[2778, 2779]	3725	[2119, 2389]	5770	[6751, 1923]	7815	[7987, 2900]
1681	[2780, 2781]	3726	[4253, 4036]	5771	[6501, 6752]	7816	[7110, 3349]
1682	[2782, 2783]	3727	[5077, 5078]	5772	[6753, 1928]	7817	[3688, 2716]
1683	[2784, 2785]	3728	[818, 4597]	5773	[6754, 225]	7818	[7988, 1408]
1684	[2786, 2787]	3729	[1613, 2224]	5774	[6755, 6756]	7819	[6145, 2789]
1685	[2788, 2789]	3730	[2250, 5079]	5775	[6757, 6736]	7820	[7989, 1367]
1686	[2790, 78]	3731	[4993, 1941]	5776	[2144, 4223]	7821	[7332, 3619]
1687	[2791, 2792]	3732	[5080, 4341]	5777	[6758, 4328]	7822	[7990, 3748]
1688	[2749, 2793]	3733	[5081, 2435]	5778	[6759, 3925]	7823	[7991, 5691]
1689	[2794, 2578]	3734	[5082, 4846]	5779	[823, 6644]	7824	[7992, 3830]
1690	[2795, 2796]	3735	[5083, 1671]	5780	[6760, 4718]	7825	[7993, 3537]
1691	[902, 2797]	3736	[5084, 1837]	5781	[4136, 6633]	7826	[1460, 5651]
1692	[2798, 2799]	3737	[2030, 536]	5782	[6629, 2092]	7827	[3376, 3025]
1693	[2800, 2801]	3738	[5085, 2075]	5783	[4300, 6513]	7828	[3845, 2786]
1694	[2802, 2803]	3739	[5086, 5087]	5784	[1920, 6614]	7829	[957, 3519]
1695	[2804, 2805]	3740	[4171, 5088]	5785	[6513, 1914]	7830	[7994, 3368]
1696	[1238, 2806]	3741	[5089, 5090]	5786	[6761, 4518]	7831	[5911, 1005]
1697	[1062, 2807]	3742	[5091, 5092]	5787	[1771, 2094]	7832	[7995, 241]
1698	[2808, 2809]	3743	[3923, 1632]	5788	[6762, 4524]	7833	[7996, 3553]
1699	[2810, 1505]	3744	[4197, 2443]	5789	[4302, 580]	7834	[7997, 2819]
1700	[2811, 1106]	3745	[5093, 4321]	5790	[6763, 4539]	7835	[2793, 5383]
1701	[2812, 2813]	3746	[5094, 2449]	5791	[6764, 2078]	7836	[7998, 908]
1702	[2814, 1394]	3747	[5095, 715]	5792	[139, 6316]	7837	[7999, 2723]
1703	[2815, 1084]	3748	[1859, 5096]	5793	[6614, 4515]	7838	[8000, 1379]
1704	[2816, 2817]	3749	[5097, 3921]	5794	[465, 4854]	7839	[442, 5909]
1705	[2818, 2819]	3750	[5098, 3867]	5795	[6765, 543]	7840	[8001, 1471]

1706	[1286, 1397]	3751	[4513, 5099]	5796	[6766, 1590]	7841	[8002, 321]
1707	[2820, 2821]	3752	[2072, 1903]	5797	[6767, 6686]	7842	[5505, 1015]
1708	[2822, 2560]	3753	[5100, 1680]	5798	[4150, 6768]	7843	[1225, 436]
1709	[2823, 2824]	3754	[5006, 4059]	5799	[6769, 2283]	7844	[1327, 961]
1710	[2825, 2826]	3755	[5101, 2175]	5800	[4539, 4275]	7845	[3000, 3108]
1711	[2764, 2827]	3756	[5102, 4819]	5801	[5092, 4523]	7846	[5508, 87]
1712	[2828, 2829]	3757	[5103, 3957]	5802	[6770, 3910]	7847	[5629, 340]
1713	[2830, 2831]	3758	[5104, 4061]	5803	[6771, 2222]	7848	[3286, 1178]
1714	[2832, 2833]	3759	[5105, 740]	5804	[6772, 1685]	7849	[8003, 5223]
1715	[2834, 2835]	3760	[5106, 5107]	5805	[1682, 6773]	7850	[2642, 3592]
1716	[2836, 2651]	3761	[5108, 1647]	5806	[6774, 4473]	7851	[8004, 2981]
1717	[2837, 22]	3762	[3996, 4309]	5807	[6775, 2307]	7852	[8005, 3694]
1718	[2838, 2839]	3763	[5109, 5110]	5808	[6776, 4199]	7853	[3283, 2995]
1719	[2840, 1100]	3764	[5111, 669]	5809	[6777, 166]	7854	[6003, 5750]
1720	[16, 2841]	3765	[4554, 1640]	5810	[6778, 6526]	7855	[5477, 5263]
1721	[2842, 2843]	3766	[4295, 4782]	5811	[6779, 4113]	7856	[5648, 16]
1722	[2844, 393]	3767	[680, 550]	5812	[6780, 4049]	7857	[3340, 1406]
1723	[2845, 2846]	3768	[5112, 2176]	5813	[6781, 6669]	7858	[8006, 1400]
1724	[2847, 433]	3769	[4015, 1707]	5814	[131, 1637]	7859	[8007, 2887]
1725	[2848, 2754]	3770	[5113, 674]	5815	[6782, 45]	7860	[8008, 1309]
1726	[2555, 2671]	3771	[5114, 4742]	5816	[6783, 6752]	7861	[8009, 400]
1727	[2849, 2850]	3772	[5115, 4816]	5817	[6784, 3963]	7862	[8010, 6052]
1728	[2851, 2852]	3773	[5116, 2168]	5818	[6785, 6786]	7863	[5420, 1503]
1729	[2853, 2854]	3774	[1998, 2260]	5819	[6342, 6787]	7864	[8011, 2934]
1730	[2855, 2856]	3775	[5117, 4494]	5820	[593, 6788]	7865	[5556, 3341]
1731	[931, 2857]	3776	[5118, 2444]	5821	[6789, 4210]	7866	[3052, 2657]
1732	[2858, 2859]	3777	[5119, 5120]	5822	[6790, 4244]	7867	[8012, 3130]
1733	[2860, 2861]	3778	[5121, 5122]	5823	[2059, 4808]	7868	[8013, 1896]
1734	[2862, 314]	3779	[5123, 3981]	5824	[1567, 2539]	7869	[8014, 8015]
1735	[890, 1440]	3780	[4470, 1929]	5825	[1942, 134]	7870	[5071, 2478]
1736	[2863, 2864]	3781	[5124, 4674]	5826	[4040, 492]	7871	[1870, 1634]
1737	[1417, 2623]	3782	[5125, 496]	5827	[6791, 1654]	7872	[6875, 6581]
1738	[2865, 2866]	3783	[5126, 5076]	5828	[6792, 528]	7873	[8016, 6313]
1739	[2867, 2868]	3784	[5127, 559]	5829	[4394, 4031]	7874	[8017, 6665]
1740	[2869, 2870]	3785	[5128, 2379]	5830	[6793, 476]	7875	[8018, 2031]
1741	[2871, 2872]	3786	[3974, 4892]	5831	[6794, 4081]	7876	[8019, 6646]
1742	[2873, 2715]	3787	[5129, 1578]	5832	[2048, 4176]	7877	[1982, 7724]
1743	[2874, 2875]	3788	[5130, 1650]	5833	[6795, 6796]	7878	[6517, 7029]
1744	[2876, 2877]	3789	[5131, 131]	5834	[1680, 2122]	7879	[8020, 1847]
1745	[2878, 2763]	3790	[5132, 4404]	5835	[6797, 2322]	7880	[1888, 1839]
1746	[1284, 948]	3791	[1691, 4551]	5836	[1738, 6499]	7881	[6477, 4288]
1747	[2879, 1303]	3792	[703, 5133]	5837	[6798, 2403]	7882	[2008, 4356]
1748	[2880, 2881]	3793	[5134, 1787]	5838	[6799, 1775]	7883	[2024, 4532]
1749	[72, 2882]	3794	[624, 5135]	5839	[6800, 4893]	7884	[8021, 4605]

1750	[2883, 2884]	3795	[5136, 5137]	5840	[6801, 4862]	7885	[7727, 7772]
1751	[2885, 2886]	3796	[5138, 5139]	5841	[6802, 1593]	7886	[6499, 6706]
1752	[2766, 2887]	3797	[5140, 719]	5842	[2256, 4598]	7887	[6786, 3988]
1753	[1388, 2888]	3798	[5141, 3926]	5843	[6803, 35]	7888	[3854, 4644]
1754	[2889, 2890]	3799	[5019, 4603]	5844	[183, 6804]	7889	[6910, 702]
1755	[2891, 2892]	3800	[5142, 2267]	5845	[6805, 4787]	7890	[8022, 651]
1756	[2893, 2894]	3801	[4031, 4935]	5846	[6806, 4109]	7891	[1536, 4159]
1757	[2799, 906]	3802	[1976, 455]	5847	[6807, 4383]	7892	[8023, 494]
1758	[2895, 2896]	3803	[4154, 596]	5848	[6808, 3997]	7893	[8024, 4551]
1759	[2897, 2898]	3804	[2022, 4019]	5849	[1862, 4829]	7894	[804, 7727]
1760	[106, 2899]	3805	[5143, 1716]	5850	[453, 4324]	7895	[222, 7758]
1761	[2900, 368]	3806	[5144, 3919]	5851	[4502, 4859]	7896	[1524, 4549]
1762	[2901, 2902]	3807	[5145, 703]	5852	[2477, 4681]	7897	[4440, 1683]
1763	[2903, 2904]	3808	[232, 4669]	5853	[6809, 462]	7898	[8025, 3905]
1764	[2905, 2906]	3809	[5056, 2270]	5854	[2049, 2255]	7899	[8026, 4213]
1765	[2907, 2908]	3810	[2074, 4121]	5855	[6810, 4769]	7900	[4788, 7058]
1766	[2909, 2910]	3811	[5146, 546]	5856	[6811, 2375]	7901	[8027, 4346]
1767	[1348, 2911]	3812	[5147, 566]	5857	[6812, 217]	7902	[4383, 7593]
1768	[2912, 1496]	3813	[5148, 1533]	5858	[599, 466]	7903	[8028, 7841]
1769	[2913, 2914]	3814	[3874, 514]	5859	[825, 1973]	7904	[7723, 5033]
1770	[2915, 2916]	3815	[5149, 5150]	5860	[6813, 4883]	7905	[8029, 1537]
1771	[2917, 2918]	3816	[5151, 5152]	5861	[6814, 3874]	7906	[1671, 6422]
1772	[2919, 337]	3817	[5153, 3971]	5862	[1753, 4465]	7907	[8030, 4817]
1773	[2920, 2921]	3818	[5154, 4055]	5863	[6815, 6816]	7908	[6692, 4700]
1774	[1086, 2922]	3819	[5155, 5156]	5864	[6817, 4564]	7909	[6605, 4332]
1775	[2923, 2924]	3820	[5135, 5078]	5865	[6818, 510]	7910	[1652, 1974]
1776	[2925, 1480]	3821	[5157, 556]	5866	[3991, 4192]	7911	[8031, 37]
1777	[2926, 1393]	3822	[5158, 40]	5867	[4735, 4902]	7912	[8032, 2239]
1778	[2819, 1308]	3823	[5159, 5001]	5868	[6819, 6411]	7913	[8033, 4580]
1779	[1007, 2927]	3824	[5160, 4961]	5869	[6820, 4600]	7914	[4746, 1909]
1780	[2928, 2929]	3825	[1623, 2332]	5870	[4307, 6382]	7915	[2236, 471]
1781	[2930, 2931]	3826	[5161, 759]	5871	[6821, 4267]	7916	[759, 6332]
1782	[2932, 2933]	3827	[4457, 2520]	5872	[6822, 6316]	7917	[6437, 3855]
1783	[1447, 2934]	3828	[1815, 4196]	5873	[6823, 4460]	7918	[8034, 7032]
1784	[2776, 2935]	3829	[4935, 2347]	5874	[2509, 6824]	7919	[8035, 6451]
1785	[2936, 1077]	3830	[4756, 1822]	5875	[6825, 644]	7920	[5096, 6786]
1786	[1330, 2937]	3831	[5162, 5150]	5876	[2083, 513]	7921	[6564, 3972]
1787	[2773, 2938]	3832	[5163, 4739]	5877	[6826, 5032]	7922	[4892, 4580]
1788	[2939, 2940]	3833	[5164, 1528]	5878	[4729, 4469]	7923	[1984, 7771]
1789	[2941, 2942]	3834	[5165, 2070]	5879	[6827, 5135]	7924	[8036, 4340]
1790	[2943, 2944]	3835	[5166, 2192]	5880	[4046, 5002]	7925	[8037, 1699]
1791	[2945, 2946]	3836	[5167, 2098]	5881	[6828, 1612]	7926	[8038, 6768]
1792	[2947, 2948]	3837	[5168, 477]	5882	[6829, 1890]	7927	[4967, 2490]
1793	[2949, 2950]	3838	[5169, 724]	5883	[6830, 1634]	7928	[6599, 3860]

1794	[1318, 2951]	3839	[5170, 737]	5884	[1956, 1745]	7929	[8039, 5024]
1795	[2952, 88]	3840	[558, 4422]	5885	[6831, 4167]	7930	[8040, 4336]
1796	[2953, 2954]	3841	[5171, 610]	5886	[2428, 4134]	7931	[4621, 8015]
1797	[2955, 2956]	3842	[5172, 4772]	5887	[4102, 129]	7932	[8041, 2025]
1798	[2957, 429]	3843	[5039, 1666]	5888	[6832, 6323]	7933	[4797, 6611]
1799	[2958, 1502]	3844	[5173, 511]	5889	[6833, 4361]	7934	[4210, 200]
1800	[348, 2959]	3845	[5174, 2386]	5890	[507, 2361]	7935	[8042, 6825]
1801	[2960, 2961]	3846	[5175, 2201]	5891	[6834, 585]	7936	[4124, 6889]
1802	[2962, 2963]	3847	[5176, 1957]	5892	[6835, 6354]	7937	[8043, 4886]
1803	[2964, 2965]	3848	[316, 2947]	5893	[6836, 2229]	7938	[8044, 1834]
1804	[925, 1192]	3849	[5177, 5178]	5894	[4402, 6424]	7939	[5133, 6704]
1805	[2966, 1306]	3850	[5179, 3798]	5895	[6837, 2086]	7940	[501, 6352]
1806	[2967, 2968]	3851	[5180, 975]	5896	[6838, 797]	7941	[8045, 3934]
1807	[2969, 2970]	3852	[5181, 1324]	5897	[6839, 3861]	7942	[8046, 4837]
1808	[2971, 2972]	3853	[5182, 1298]	5898	[6354, 6366]	7943	[8047, 4796]
1809	[1379, 2973]	3854	[5183, 5184]	5899	[6840, 47]	7944	[8048, 6769]
1810	[2974, 2975]	3855	[5185, 2962]	5900	[1856, 5037]	7945	[1938, 6429]
1811	[2976, 2977]	3856	[5186, 5187]	5901	[6841, 711]	7946	[7783, 4818]
1812	[2978, 2979]	3857	[5188, 2836]	5902	[4477, 2096]	7947	[4074, 4049]
1813	[2980, 2981]	3858	[5189, 1124]	5903	[4989, 3864]	7948	[2141, 3937]
1814	[18, 2982]	3859	[1180, 5190]	5904	[6842, 4537]	7949	[8049, 4808]
1815	[955, 1189]	3860	[5191, 3542]	5905	[6843, 6844]	7950	[1927, 4967]
1816	[2983, 2984]	3861	[3010, 5192]	5906	[6845, 4661]	7951	[7775, 2407]
1817	[1106, 2726]	3862	[5193, 5194]	5907	[6846, 4131]	7952	[6322, 2400]
1818	[2985, 2986]	3863	[5195, 2883]	5908	[4018, 6847]	7953	[8050, 6697]
1819	[2857, 2987]	3864	[5196, 2765]	5909	[6848, 1561]	7954	[8051, 571]
1820	[2988, 2862]	3865	[3159, 3471]	5910	[6849, 4079]	7955	[8052, 4134]
1821	[2989, 2990]	3866	[5197, 1172]	5911	[6850, 1562]	7956	[8053, 2314]
1822	[2991, 2992]	3867	[5198, 5199]	5912	[536, 3908]	7957	[8054, 7783]
1823	[2993, 2994]	3868	[1037, 5200]	5913	[6851, 4953]	7958	[2182, 6599]
1824	[2995, 2900]	3869	[5201, 3768]	5914	[6852, 1572]	7959	[8055, 4832]
1825	[2996, 2997]	3870	[5202, 3214]	5915	[6728, 5044]	7960	[8056, 586]
1826	[2998, 2999]	3871	[5203, 2629]	5916	[4804, 4685]	7961	[8057, 2066]
1827	[385, 3000]	3872	[5204, 5205]	5917	[6853, 6501]	7962	[7671, 5062]
1828	[3001, 3002]	3873	[5206, 2727]	5918	[2191, 4735]	7963	[2402, 6829]
1829	[3003, 2883]	3874	[5207, 964]	5919	[6854, 4227]	7964	[8058, 2465]
1830	[2922, 2791]	3875	[5190, 75]	5920	[6855, 772]	7965	[832, 7775]
1831	[3004, 3005]	3876	[3072, 5208]	5921	[6856, 480]	7966	[7747, 1777]
1832	[3006, 3007]	3877	[5209, 5210]	5922	[6857, 2380]	7967	[1695, 2480]
1833	[275, 1268]	3878	[5211, 5212]	5923	[2114, 4947]	7968	[4333, 6575]
1834	[3008, 3009]	3879	[1264, 3087]	5924	[6858, 6541]	7969	[6481, 6928]
1835	[2824, 1517]	3880	[5213, 5214]	5925	[585, 5083]	7970	[8059, 4098]
1836	[1191, 3010]	3881	[5215, 5216]	5926	[6859, 4579]	7971	[611, 6281]
1837	[3011, 255]	3882	[5217, 347]	5927	[6860, 190]	7972	[3936, 3857]

1838	[3012, 2746]	3883	[5218, 1380]	5928	[4239, 4189]	7973	[7705, 4617]
1839	[3013, 3014]	3884	[5219, 3777]	5929	[6861, 4925]	7974	[6378, 4718]
1840	[3015, 1119]	3885	[5220, 293]	5930	[3976, 6862]	7975	[8060, 578]
1841	[3016, 2700]	3886	[5221, 3787]	5931	[1737, 1577]	7976	[8061, 6773]
1842	[3017, 917]	3887	[5222, 5223]	5932	[6680, 1704]	7977	[8062, 6527]
1843	[3018, 3019]	3888	[1261, 1123]	5933	[1676, 6863]	7978	[8063, 4504]
1844	[3020, 2567]	3889	[5224, 1426]	5934	[6864, 4625]	7979	[8064, 2407]
1845	[363, 3021]	3890	[5225, 5226]	5935	[4189, 4623]	7980	[8065, 6792]
1846	[3022, 3023]	3891	[5178, 5205]	5936	[6865, 459]	7981	[8066, 4261]
1847	[3024, 3025]	3892	[5227, 2620]	5937	[6866, 6492]	7982	[8067, 6326]
1848	[3026, 2845]	3893	[5228, 910]	5938	[6867, 4472]	7983	[6796, 2294]
1849	[407, 3027]	3894	[5229, 934]	5939	[6868, 1965]	7984	[2093, 3917]
1850	[3028, 3029]	3895	[5230, 2739]	5940	[135, 6464]	7985	[709, 35]
1851	[3030, 81]	3896	[5231, 5232]	5941	[6869, 6814]	7986	[7077, 4475]
1852	[2741, 1235]	3897	[5233, 3134]	5942	[6870, 1971]	7987	[8068, 5047]
1853	[2626, 3031]	3898	[5234, 5235]	5943	[518, 6728]	7988	[4696, 6814]
1854	[2632, 333]	3899	[5236, 5237]	5944	[4459, 4498]	7989	[8069, 1855]
1855	[3032, 3033]	3900	[3406, 3272]	5945	[6871, 5060]	7990	[8070, 4217]
1856	[3034, 2916]	3901	[5238, 5239]	5946	[4657, 4716]	7991	[189, 7069]
1857	[3035, 3036]	3902	[5240, 310]	5947	[687, 3879]	7992	[8071, 6607]
1858	[3037, 3038]	3903	[5214, 3654]	5948	[4549, 770]	7993	[8072, 6546]
1859	[3039, 3026]	3904	[5241, 3357]	5949	[6872, 785]	7994	[8073, 1702]
1860	[3040, 1264]	3905	[5242, 5243]	5950	[6873, 5066]	7995	[4033, 464]
1861	[3041, 2761]	3906	[5244, 3120]	5951	[6874, 6875]	7996	[6442, 4719]
1862	[3042, 3043]	3907	[5245, 1262]	5952	[6876, 4256]	7997	[8074, 2251]
1863	[3044, 3045]	3908	[5246, 5247]	5953	[169, 6492]	7998	[6940, 3967]
1864	[3046, 1065]	3909	[3344, 3077]	5954	[6877, 2361]	7999	[8075, 2285]
1865	[2882, 3047]	3910	[5248, 1415]	5955	[6878, 4954]	8000	[8076, 4363]
1866	[3048, 3049]	3911	[5249, 3251]	5956	[6879, 4352]	8001	[8077, 2471]
1867	[894, 1250]	3912	[5250, 1367]	5957	[6880, 6734]	8002	[8078, 2525]
1868	[2805, 3050]	3913	[5251, 5252]	5958	[1986, 233]	8003	[8079, 7724]
1869	[3051, 3052]	3914	[5243, 3129]	5959	[6881, 4136]	8004	[8080, 4753]
1870	[3053, 1153]	3915	[5187, 3508]	5960	[6706, 6882]	8005	[8081, 5004]
1871	[3054, 70]	3916	[2628, 5253]	5961	[6883, 2342]	8006	[684, 4138]
1872	[3055, 3056]	3917	[5254, 2649]	5962	[546, 5152]	8007	[2459, 2444]
1873	[3057, 1389]	3918	[3360, 5255]	5963	[4446, 4078]	8008	[1952, 4645]
1874	[3058, 3059]	3919	[5256, 1053]	5964	[6884, 2129]	8009	[8082, 7036]
1875	[1022, 2631]	3920	[5257, 5258]	5965	[6885, 464]	8010	[7082, 4560]
1876	[3060, 3061]	3921	[5259, 5260]	5966	[4347, 6886]	8011	[4741, 4705]
1877	[3062, 3063]	3922	[5261, 2702]	5967	[4131, 2045]	8012	[2057, 2158]
1878	[3064, 353]	3923	[5262, 5263]	5968	[6887, 1665]	8013	[2678, 1346]
1879	[3065, 2858]	3924	[5264, 1398]	5969	[6888, 6889]	8014	[8083, 3406]
1880	[3066, 3067]	3925	[1128, 2721]	5970	[6622, 1769]	8015	[8084, 3310]
1881	[3068, 1217]	3926	[5265, 5266]	5971	[656, 6476]	8016	[2759, 3305]

1882	[3069, 1425]	3927	[5267, 2578]	5972	[1884, 1943]	8017	[8085, 3198]
1883	[3070, 17]	3928	[5268, 1353]	5973	[6890, 702]	8018	[3561, 5748]
1884	[3071, 3072]	3929	[1020, 2800]	5974	[6891, 782]	8019	[5667, 441]
1885	[3073, 3074]	3930	[5269, 431]	5975	[6892, 727]	8020	[3371, 5580]
1886	[1227, 112]	3931	[5270, 1212]	5976	[6893, 2252]	8021	[2872, 1088]
1887	[935, 62]	3932	[3302, 5271]	5977	[6894, 6600]	8022	[8086, 5615]
1888	[3075, 2843]	3933	[3455, 3064]	5978	[730, 6736]	8023	[2664, 3145]
1889	[3076, 3077]	3934	[5272, 5273]	5979	[6895, 2344]	8024	[5596, 2872]
1890	[3078, 1390]	3935	[5274, 5275]	5980	[6896, 6312]	8025	[8087, 3222]
1891	[3079, 2731]	3936	[2591, 5276]	5981	[54, 2285]	8026	[5237, 1245]
1892	[3080, 2701]	3937	[5277, 5278]	5982	[4100, 1863]	8027	[8088, 5266]
1893	[2557, 3081]	3938	[5279, 3562]	5983	[6897, 4104]	8028	[1512, 2923]
1894	[1419, 2683]	3939	[2600, 5226]	5984	[6898, 604]	8029	[6244, 3495]
1895	[271, 3082]	3940	[5280, 3111]	5985	[6899, 2512]	8030	[5675, 1018]
1896	[3083, 2874]	3941	[5281, 5282]	5986	[6900, 5039]	8031	[8089, 2831]
1897	[3084, 2876]	3942	[3754, 5283]	5987	[4500, 6419]	8032	[8090, 884]
1898	[3085, 3086]	3943	[5284, 3731]	5988	[6901, 1709]	8033	[5963, 2735]
1899	[3087, 990]	3944	[3368, 5285]	5989	[6902, 6430]	8034	[8091, 3240]
1900	[3088, 3089]	3945	[1456, 5212]	5990	[1530, 6680]	8035	[331, 2994]
1901	[3090, 3091]	3946	[5286, 1220]	5991	[6903, 4139]	8036	[3743, 1463]
1902	[3092, 3093]	3947	[5287, 5288]	5992	[4543, 6904]	8037	[2972, 3844]
1903	[3094, 3095]	3948	[1489, 3235]	5993	[6464, 4842]	8038	[1046, 5895]
1904	[3096, 2667]	3949	[3692, 318]	5994	[3957, 1832]	8039	[8092, 444]
1905	[3097, 3098]	3950	[2852, 5289]	5995	[6905, 6906]	8040	[8093, 413]
1906	[3099, 3100]	3951	[5290, 5291]	5996	[6907, 4911]	8041	[3483, 3269]
1907	[3101, 3102]	3952	[2902, 5292]	5997	[1708, 6293]	8042	[5782, 1197]
1908	[2620, 3103]	3953	[5293, 309]	5998	[6393, 4862]	8043	[8094, 1403]
1909	[3104, 3105]	3954	[5294, 3413]	5999	[6908, 2390]	8044	[3584, 2824]
1910	[3106, 3107]	3955	[3579, 5295]	6000	[6909, 6910]	8045	[8095, 3273]
1911	[3108, 2970]	3956	[5296, 1245]	6001	[6911, 4523]	8046	[5263, 325]
1912	[3109, 3110]	3957	[3183, 2919]	6002	[6912, 6829]	8047	[8096, 3510]
1913	[3111, 3112]	3958	[5297, 1194]	6003	[6913, 4108]	8048	[8097, 2793]
1914	[987, 3113]	3959	[5298, 3647]	6004	[6914, 6915]	8049	[8098, 3081]
1915	[3114, 3115]	3960	[5299, 3113]	6005	[642, 6401]	8050	[8099, 2839]
1916	[1916, 1916]	3961	[5300, 429]	6006	[210, 6916]	8051	[8100, 2882]
1917	[3116, 3117]	3962	[1508, 3208]	6007	[2038, 4639]	8052	[3645, 2575]
1918	[3117, 2915]	3963	[5301, 5302]	6008	[6917, 5132]	8053	[8101, 1181]
1919	[3118, 3119]	3964	[3779, 5303]	6009	[6918, 2437]	8054	[5552, 1392]
1920	[3120, 3121]	3965	[5304, 2859]	6010	[5046, 653]	8055	[8102, 401]
1921	[3122, 3123]	3966	[5305, 3679]	6011	[6919, 1903]	8056	[6169, 1097]
1922	[3124, 3125]	3967	[5306, 5307]	6012	[6920, 4724]	8057	[3683, 3278]
1923	[3126, 3127]	3968	[5308, 2724]	6013	[6921, 1668]	8058	[8103, 305]
1924	[2931, 3128]	3969	[2707, 1468]	6014	[2152, 6558]	8059	[8104, 1321]
1925	[3129, 3130]	3970	[5309, 3520]	6015	[493, 4286]	8060	[8105, 2678]

1926	[3131, 3132]	3971	[5307, 3740]	6016	[1934, 502]	8061	[8106, 2724]
1927	[3133, 3134]	3972	[5310, 103]	6017	[6922, 4052]	8062	[8107, 5596]
1928	[3135, 3136]	3973	[5311, 3385]	6018	[6923, 4161]	8063	[5260, 3154]
1929	[3137, 3138]	3974	[1242, 5214]	6019	[1553, 4501]	8064	[8108, 3696]
1930	[3139, 3140]	3975	[2636, 3693]	6020	[6924, 153]	8065	[8109, 913]
1931	[3141, 1150]	3976	[4, 958]	6021	[1840, 6347]	8066	[8110, 3711]
1932	[3142, 3143]	3977	[3797, 2825]	6022	[6925, 6926]	8067	[8111, 1445]
1933	[3144, 3145]	3978	[3747, 5312]	6023	[6927, 6928]	8068	[8112, 1169]
1934	[2666, 942]	3979	[5313, 5314]	6024	[6929, 2480]	8069	[8113, 2647]
1935	[3146, 1356]	3980	[5315, 3664]	6025	[6930, 6771]	8070	[8114, 1433]
1936	[3147, 944]	3981	[5316, 5317]	6026	[660, 4251]	8071	[8115, 72]
1937	[3148, 3149]	3982	[3209, 3590]	6027	[6931, 4475]	8072	[8116, 1318]
1938	[3150, 3151]	3983	[5318, 3238]	6028	[6932, 6933]	8073	[8117, 3828]
1939	[3152, 3153]	3984	[5319, 939]	6029	[6382, 2356]	8074	[8118, 1366]
1940	[3154, 1090]	3985	[5216, 5320]	6030	[6934, 6886]	8075	[1170, 95]
1941	[2806, 3155]	3986	[5321, 255]	6031	[4380, 6622]	8076	[8119, 5487]
1942	[3156, 3157]	3987	[5322, 1272]	6032	[6935, 2463]	8077	[5885, 2808]
1943	[3158, 3159]	3988	[5323, 2791]	6033	[6863, 2451]	8078	[8120, 991]
1944	[3160, 3161]	3989	[5324, 3356]	6034	[5122, 212]	8079	[8121, 3483]
1945	[3162, 2781]	3990	[423, 85]	6035	[4087, 6349]	8080	[8122, 1293]
1946	[3163, 3164]	3991	[357, 3311]	6036	[6936, 6937]	8081	[8123, 3801]
1947	[3165, 3166]	3992	[1289, 246]	6037	[179, 6699]	8082	[8124, 1135]
1948	[3167, 3168]	3993	[3540, 2804]	6038	[6938, 3896]	8083	[560, 4353]
1949	[3169, 3170]	3994	[3605, 3039]	6039	[1789, 6939]	8084	[8125, 2294]
1950	[3063, 1349]	3995	[5325, 3559]	6040	[2174, 537]	8085	[4705, 4625]
1951	[1444, 3171]	3996	[3827, 5326]	6041	[2282, 841]	8086	[1923, 6511]
1952	[1364, 3172]	3997	[3631, 3663]	6042	[4766, 6940]	8087	[8126, 565]
1953	[3173, 3066]	3998	[5327, 3711]	6043	[6941, 746]	8088	[7070, 1556]
1954	[3174, 3175]	3999	[1496, 3603]	6044	[6942, 1816]	8089	[8127, 4248]
1955	[3176, 3177]	4000	[5328, 3196]	6045	[6336, 5171]	8090	[6787, 4898]
1956	[3178, 3179]	4001	[5329, 5330]	6046	[4707, 6646]	8091	[8128, 6409]
1957	[3180, 3181]	4002	[5331, 3434]	6047	[4085, 6527]	8092	[8129, 2113]
1958	[3182, 3183]	4003	[1275, 3510]	6048	[6943, 4675]	8093	[8130, 6826]
1959	[3184, 3185]	4004	[5332, 5333]	6049	[6944, 2496]	8094	[8131, 4989]
1960	[1413, 3186]	4005	[5334, 1431]	6050	[3983, 1999]	8095	[6788, 4670]
1961	[3187, 349]	4006	[3442, 1511]	6051	[187, 4930]	8096	[8132, 2021]
1962	[3188, 3189]	4007	[333, 1255]	6052	[4496, 6481]	8097	[8133, 2108]
1963	[1060, 3190]	4008	[5335, 2738]	6053	[6945, 2539]	8098	[2415, 4373]
1964	[1162, 2757]	4009	[5336, 3058]	6054	[6493, 185]	8099	[8134, 6804]
1965	[3191, 3192]	4010	[5337, 1312]	6055	[726, 208]	8100	[6928, 779]
1966	[3193, 3194]	4011	[5338, 5339]	6056	[195, 225]	8101	[8135, 3988]
1967	[3195, 2736]	4012	[5340, 2595]	6057	[6946, 584]	8102	[4538, 4758]
1968	[3196, 2573]	4013	[5341, 5342]	6058	[4096, 2252]	8103	[7771, 4174]
1969	[1140, 2541]	4014	[5343, 5344]	6059	[6947, 5126]	8104	[8136, 6704]

1970	[3197, 3198]	4015	[5345, 1477]	6060	[4510, 2355]	8105	[8137, 7024]
1971	[3199, 2603]	4016	[5346, 3248]	6061	[6948, 3918]	8106	[8138, 4326]
1972	[1481, 3200]	4017	[5347, 996]	6062	[6949, 4719]	8107	[1638, 6937]
1973	[3201, 3040]	4018	[5348, 3809]	6063	[4133, 4975]	8108	[8139, 5062]
1974	[3202, 1287]	4019	[5349, 3449]	6064	[6950, 4672]	8109	[6965, 2089]
1975	[3203, 3204]	4020	[2715, 5350]	6065	[3918, 6951]	8110	[3949, 5067]
1976	[3205, 3206]	4021	[291, 3840]	6066	[6952, 6300]	8111	[8140, 6349]
1977	[3207, 2556]	4022	[5351, 3663]	6067	[6953, 1752]	8112	[8141, 7761]
1978	[3208, 3209]	4023	[981, 3487]	6068	[4960, 182]	8113	[197, 7655]
1979	[1352, 3210]	4024	[5352, 5353]	6069	[6954, 1841]	8114	[6560, 6500]
1980	[3211, 928]	4025	[5354, 6]	6070	[2151, 6471]	8115	[6312, 4255]
1981	[3212, 2875]	4026	[5355, 5356]	6071	[6955, 4700]	8116	[8142, 7698]
1982	[3213, 2901]	4027	[5357, 3317]	6072	[6956, 2417]	8117	[6926, 730]
1983	[3214, 3215]	4028	[5358, 1916]	6073	[6957, 3946]	8118	[4950, 2465]
1984	[853, 1093]	4029	[5359, 3585]	6074	[6958, 1812]	8119	[8143, 6327]
1985	[369, 3216]	4030	[3838, 5328]	6075	[6959, 6916]	8120	[7841, 7]
1986	[3217, 3218]	4031	[3630, 3053]	6076	[4794, 3922]	8121	[8144, 4350]
1987	[3219, 3220]	4032	[5266, 5360]	6077	[6590, 6960]	8122	[8145, 2433]
1988	[3221, 3222]	4033	[3612, 867]	6078	[3969, 4399]	8123	[8146, 1910]
1989	[2877, 1110]	4034	[5276, 272]	6079	[6331, 6958]	8124	[8147, 152]
1990	[866, 3223]	4035	[5361, 2779]	6080	[4388, 2377]	8125	[8148, 2803]
1991	[3224, 3225]	4036	[3690, 5362]	6081	[6961, 4620]	8126	[1220, 3364]
1992	[3226, 3227]	4037	[5363, 2786]	6082	[4587, 1857]	8127	[8149, 1134]
1993	[923, 3228]	4038	[5364, 3425]	6083	[6962, 596]	8128	[1406, 303]
1994	[1229, 3229]	4039	[5365, 5366]	6084	[2289, 5101]	8129	[8150, 870]
1995	[3230, 3231]	4040	[3059, 3153]	6085	[1969, 2373]	8130	[5919, 5608]
1996	[2725, 3232]	4041	[5367, 2690]	6086	[6963, 4365]	8131	[8151, 1120]
1997	[3233, 3234]	4042	[5368, 5369]	6087	[2088, 5156]	8132	[8152, 3556]
1998	[3235, 116]	4043	[3098, 5370]	6088	[2011, 6309]	8133	[5913, 5736]
1999	[3236, 3237]	4044	[968, 5371]	6089	[3866, 629]	8134	[5968, 2667]
2000	[3238, 3217]	4045	[5366, 897]	6090	[6964, 6965]	8135	[8153, 5545]
2001	[3239, 3240]	4046	[5372, 5181]	6091	[6966, 633]	8136	[8154, 1518]
2002	[2841, 2769]	4047	[5373, 312]	6092	[1592, 2197]	8137	[5669, 5422]
2003	[3241, 1227]	4048	[3609, 2709]	6093	[6967, 771]	8138	[5580, 3601]
2004	[3242, 1371]	4049	[5374, 3422]	6094	[1722, 1841]	8139	[8155, 3442]
2005	[3243, 3244]	4050	[5375, 374]	6095	[4474, 125]	8140	[5748, 3747]
2006	[3245, 3246]	4051	[5376, 84]	6096	[4552, 1741]	8141	[8156, 2991]
2007	[3247, 1442]	4052	[5377, 1299]	6097	[6889, 6686]	8142	[8157, 1456]
2008	[3248, 3249]	4053	[5378, 3092]	6098	[6968, 1933]	8143	[3447, 3707]
2009	[3250, 2683]	4054	[5379, 430]	6099	[6969, 4118]	8144	[8158, 5260]
2010	[355, 1133]	4055	[5380, 5381]	6100	[6970, 1810]	8145	[8159, 5755]
2011	[3251, 3252]	4056	[5382, 5383]	6101	[719, 2263]	8146	[8160, 1170]
2012	[3253, 119]	4057	[5384, 1279]	6102	[6971, 2276]	8147	[8161, 903]
2013	[283, 1507]	4058	[5385, 855]	6103	[6972, 4016]	8148	[8162, 3924]

2014	[3254, 2675]	4059	[5386, 3273]	6104	[6973, 4169]	8149	[7766, 4208]
2015	[3255, 2716]	4060	[5387, 3417]	6105	[4216, 6674]	8150	[6601, 4535]
2016	[3149, 3019]	4061	[5295, 3418]	6106	[6974, 4112]	8151	[6487, 7605]
2017	[3256, 851]	4062	[2561, 878]	6107	[6916, 152]	8152	[8163, 6882]
2018	[3257, 3258]	4063	[3228, 1183]	6108	[6975, 140]	8153	[8164, 4060]
2019	[3259, 3260]	4064	[5388, 106]	6109	[2317, 6323]	8154	[8165, 7772]
2020	[1009, 2599]	4065	[5389, 380]	6110	[4633, 6976]	8155	[6862, 2525]
2021	[3261, 3262]	4066	[3715, 5390]	6111	[2045, 1554]	8156	[6951, 6443]
2022	[3263, 2774]	4067	[1254, 2864]	6112	[6977, 2089]	8157	[7602, 4886]
2023	[3264, 3265]	4068	[5391, 5392]	6113	[6978, 4208]	8158	[6773, 5071]
2024	[3266, 875]	4069	[5393, 881]	6114	[6979, 6901]	8159	[7031, 1531]
2025	[3267, 3268]	4070	[3449, 5394]	6115	[6980, 37]	8160	[7032, 12]
2026	[3269, 336]	4071	[1152, 2637]	6116	[4113, 2107]	8161	[8166, 6778]
2027	[3270, 3271]	4072	[5395, 919]	6117	[6981, 1812]	8162	[8167, 1128]
2028	[3272, 2855]	4073	[5396, 5397]	6118	[6982, 830]	8163	[8168, 3496]
2029	[3273, 3274]	4074	[5398, 5399]	6119	[6983, 4335]	8164	[8169, 2593]
2030	[3275, 3276]	4075	[3735, 3066]	6120	[6984, 6751]	8165	[8170, 3469]
2031	[3277, 3278]	4076	[5400, 5401]	6121	[6985, 4810]	8166	[8171, 869]
2032	[3279, 3280]	4077	[5402, 1054]	6122	[3946, 5081]	8167	[8172, 4057]
2033	[2870, 1124]	4078	[5403, 2717]	6123	[6844, 2239]	8168	[6578, 7600]
2034	[3281, 1285]	4079	[5404, 1501]	6124	[6986, 219]	8169	[7758, 1948]
2035	[3282, 3283]	4080	[2807, 3753]	6125	[2054, 6605]	8170	[8173, 6530]
2036	[999, 2772]	4081	[5405, 2619]	6126	[6987, 2417]	8171	[7618, 7649]
2037	[3284, 2660]	4082	[5205, 392]	6127	[6988, 4039]	8172	[8174, 904]
2038	[3285, 3286]	4083	[5406, 3244]	6128	[6989, 4561]	8173	[8175, 3493]
2039	[3287, 334]	4084	[5407, 1495]	6129	[1742, 6294]	8174	[8015, 4297]
2040	[3288, 3289]	4085	[5408, 2668]	6130	[6411, 4925]	8175	[4940, 6961]
2041	[3290, 3291]	4086	[5409, 2615]	6131	[6990, 4833]		
2042	[3292, 3293]	4087	[951, 3197]	6132	[783, 4442]		
2043	[3294, 971]	4088	[3416, 982]	6133	[6991, 2297]		
2044	[3295, 1032]	4089	[261, 5348]	6134	[6992, 6356]		

Output function $n \mapsto \tau(n)$:

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1363	0	2726	0	4089	1	5452	0
1	0	1364	0	2727	1	4090	0	5453	0
2	0	1365	1	2728	0	4091	1	5454	1
3	0	1366	1	2729	1	4092	1	5455	0
4	0	1367	0	2730	0	4093	1	5456	0
5	0	1368	0	2731	1	4094	1	5457	1
6	0	1369	1	2732	1	4095	1	5458	1
7	0	1370	0	2733	0	4096	0	5459	0
8	1	1371	1	2734	1	4097	1	5460	0
9	0	1372	1	2735	0	4098	1	5461	1

10	0	1373	1	2736	0	4099	1	5462	0	6825	0
11	0	1374	1	2737	0	4100	0	5463	0	6826	0
12	0	1375	0	2738	1	4101	1	5464	0	6827	1
13	0	1376	1	2739	0	4102	1	5465	0	6828	0
14	1	1377	1	2740	1	4103	0	5466	0	6829	0
15	0	1378	1	2741	1	4104	1	5467	0	6830	1
16	0	1379	1	2742	0	4105	1	5468	0	6831	0
17	1	1380	0	2743	1	4106	1	5469	0	6832	0
18	0	1381	1	2744	1	4107	0	5470	1	6833	1
19	0	1382	0	2745	1	4108	0	5471	0	6834	1
20	0	1383	1	2746	1	4109	0	5472	1	6835	0
21	0	1384	1	2747	1	4110	1	5473	0	6836	1
22	1	1385	1	2748	1	4111	0	5474	0	6837	1
23	0	1386	0	2749	1	4112	1	5475	0	6838	1
24	0	1387	1	2750	1	4113	0	5476	1	6839	1
25	0	1388	0	2751	1	4114	0	5477	0	6840	1
26	0	1389	1	2752	1	4115	0	5478	1	6841	0
27	0	1390	1	2753	1	4116	0	5479	0	6842	1
28	1	1391	0	2754	1	4117	1	5480	1	6843	0
29	1	1392	1	2755	1	4118	1	5481	0	6844	1
30	0	1393	0	2756	1	4119	1	5482	1	6845	1
31	0	1394	1	2757	0	4120	1	5483	1	6846	0
32	0	1395	0	2758	0	4121	0	5484	0	6847	1
33	0	1396	1	2759	1	4122	1	5485	0	6848	0
34	1	1397	1	2760	1	4123	0	5486	1	6849	1
35	1	1398	1	2761	1	4124	1	5487	1	6850	1
36	1	1399	0	2762	0	4125	1	5488	1	6851	0
37	0	1400	1	2763	0	4126	0	5489	1	6852	0
38	0	1401	0	2764	1	4127	1	5490	1	6853	1
39	0	1402	1	2765	1	4128	0	5491	1	6854	1
40	1	1403	1	2766	0	4129	1	5492	1	6855	1
41	0	1404	1	2767	0	4130	1	5493	0	6856	0
42	1	1405	1	2768	1	4131	0	5494	1	6857	0
43	0	1406	1	2769	1	4132	0	5495	0	6858	0
44	0	1407	0	2770	1	4133	1	5496	0	6859	0
45	1	1408	1	2771	0	4134	0	5497	1	6860	1
46	1	1409	1	2772	0	4135	0	5498	1	6861	0
47	0	1410	0	2773	1	4136	0	5499	1	6862	0
48	0	1411	0	2774	1	4137	0	5500	1	6863	0
49	1	1412	0	2775	1	4138	0	5501	1	6864	1
50	0	1413	1	2776	1	4139	1	5502	1	6865	0
51	1	1414	0	2777	1	4140	0	5503	1	6866	0
52	0	1415	0	2778	0	4141	1	5504	0	6867	0
53	1	1416	0	2779	0	4142	1	5505	0	6868	0

54	0	1417	0	2780	0	4143	0	5506	1	6869	0
55	1	1418	0	2781	0	4144	0	5507	1	6870	0
56	0	1419	0	2782	0	4145	0	5508	1	6871	1
57	1	1420	0	2783	0	4146	0	5509	1	6872	1
58	1	1421	1	2784	0	4147	0	5510	0	6873	1
59	0	1422	1	2785	0	4148	0	5511	1	6874	0
60	1	1423	1	2786	1	4149	0	5512	0	6875	1
61	0	1424	0	2787	1	4150	1	5513	0	6876	0
62	1	1425	1	2788	0	4151	0	5514	1	6877	0
63	0	1426	1	2789	0	4152	0	5515	1	6878	1
64	0	1427	1	2790	1	4153	0	5516	1	6879	1
65	0	1428	0	2791	0	4154	0	5517	1	6880	0
66	0	1429	0	2792	0	4155	1	5518	1	6881	1
67	1	1430	0	2793	0	4156	0	5519	1	6882	0
68	1	1431	1	2794	1	4157	0	5520	1	6883	0
69	1	1432	1	2795	0	4158	1	5521	0	6884	1
70	0	1433	0	2796	0	4159	0	5522	0	6885	1
71	1	1434	0	2797	1	4160	1	5523	1	6886	0
72	0	1435	0	2798	0	4161	1	5524	0	6887	0
73	0	1436	1	2799	0	4162	1	5525	1	6888	0
74	1	1437	0	2800	0	4163	1	5526	1	6889	0
75	0	1438	0	2801	0	4164	1	5527	1	6890	1
76	1	1439	0	2802	1	4165	0	5528	0	6891	1
77	0	1440	0	2803	1	4166	1	5529	0	6892	0
78	0	1441	0	2804	1	4167	1	5530	0	6893	1
79	1	1442	0	2805	1	4168	1	5531	0	6894	0
80	1	1443	1	2806	0	4169	1	5532	1	6895	0
81	0	1444	0	2807	0	4170	1	5533	1	6896	1
82	1	1445	1	2808	1	4171	0	5534	0	6897	1
83	1	1446	1	2809	1	4172	0	5535	0	6898	0
84	1	1447	1	2810	1	4173	1	5536	0	6899	1
85	0	1448	0	2811	1	4174	1	5537	0	6900	1
86	0	1449	0	2812	0	4175	1	5538	0	6901	0
87	0	1450	1	2813	1	4176	1	5539	0	6902	0
88	1	1451	1	2814	1	4177	1	5540	1	6903	1
89	1	1452	1	2815	1	4178	1	5541	1	6904	0
90	1	1453	1	2816	1	4179	0	5542	1	6905	1
91	1	1454	1	2817	0	4180	0	5543	1	6906	0
92	1	1455	0	2818	1	4181	1	5544	0	6907	0
93	0	1456	0	2819	0	4182	0	5545	1	6908	1
94	1	1457	1	2820	1	4183	1	5546	1	6909	0
95	0	1458	1	2821	1	4184	1	5547	0	6910	0
96	0	1459	1	2822	1	4185	1	5548	1	6911	0
97	1	1460	1	2823	1	4186	1	5549	0	6912	0

98	0	1461	1	2824	0	4187	1	5550	1	6913	1
99	0	1462	1	2825	1	4188	1	5551	0	6914	1
100	0	1463	0	2826	1	4189	1	5552	1	6915	1
101	1	1464	1	2827	1	4190	0	5553	0	6916	0
102	0	1465	1	2828	0	4191	1	5554	0	6917	1
103	0	1466	0	2829	1	4192	0	5555	1	6918	0
104	0	1467	0	2830	0	4193	1	5556	1	6919	0
105	1	1468	0	2831	0	4194	1	5557	1	6920	0
106	1	1469	1	2832	0	4195	0	5558	1	6921	1
107	0	1470	0	2833	1	4196	1	5559	0	6922	0
108	1	1471	1	2834	1	4197	0	5560	0	6923	0
109	0	1472	0	2835	1	4198	0	5561	0	6924	1
110	0	1473	1	2836	1	4199	0	5562	0	6925	0
111	0	1474	0	2837	1	4200	1	5563	1	6926	0
112	1	1475	1	2838	1	4201	0	5564	1	6927	1
113	1	1476	0	2839	0	4202	1	5565	1	6928	1
114	1	1477	1	2840	0	4203	1	5566	0	6929	0
115	0	1478	1	2841	0	4204	1	5567	0	6930	1
116	0	1479	0	2842	0	4205	1	5568	1	6931	1
117	1	1480	1	2843	1	4206	1	5569	0	6932	1
118	1	1481	1	2844	0	4207	1	5570	0	6933	1
119	1	1482	0	2845	0	4208	0	5571	1	6934	1
120	0	1483	1	2846	0	4209	1	5572	0	6935	0
121	0	1484	1	2847	1	4210	0	5573	1	6936	1
122	1	1485	0	2848	0	4211	1	5574	0	6937	1
123	1	1486	0	2849	1	4212	0	5575	0	6938	1
124	0	1487	0	2850	1	4213	0	5576	1	6939	1
125	0	1488	1	2851	1	4214	0	5577	1	6940	0
126	0	1489	0	2852	0	4215	1	5578	1	6941	0
127	1	1490	1	2853	0	4216	1	5579	0	6942	0
128	0	1491	1	2854	0	4217	0	5580	1	6943	1
129	0	1492	0	2855	0	4218	0	5581	1	6944	0
130	0	1493	1	2856	0	4219	1	5582	0	6945	0
131	1	1494	0	2857	0	4220	1	5583	1	6946	0
132	1	1495	0	2858	0	4221	1	5584	1	6947	0
133	0	1496	1	2859	0	4222	1	5585	1	6948	1
134	1	1497	1	2860	1	4223	0	5586	0	6949	1
135	1	1498	1	2861	1	4224	0	5587	1	6950	0
136	1	1499	0	2862	1	4225	0	5588	0	6951	1
137	0	1500	1	2863	1	4226	0	5589	0	6952	1
138	0	1501	1	2864	1	4227	0	5590	1	6953	0
139	0	1502	0	2865	0	4228	0	5591	1	6954	1
140	1	1503	0	2866	0	4229	0	5592	1	6955	1
141	1	1504	1	2867	0	4230	0	5593	1	6956	1

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144	0	1507	1	2870	0	4233	1	5596	1	6959	1
145	1	1508	0	2871	0	4234	0	5597	0	6960	0
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147	0	1510	0	2873	1	4236	0	5599	0	6962	1
148	0	1511	1	2874	1	4237	0	5600	0	6963	1
149	0	1512	1	2875	0	4238	0	5601	0	6964	0
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152	0	1515	0	2878	1	4241	1	5604	1	6967	0
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154	0	1517	1	2880	0	4243	0	5606	0	6969	0
155	0	1518	1	2881	0	4244	0	5607	0	6970	1
156	1	1519	0	2882	1	4245	1	5608	1	6971	0
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158	1	1521	1	2884	0	4247	1	5610	1	6973	0
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167	1	1530	1	2893	1	4256	0	5619	0	6982	0
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175	1	1538	1	2901	0	4264	0	5627	0	6990	1
176	1	1539	0	2902	0	4265	1	5628	0	6991	0
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178	1	1541	0	2904	1	4267	1	5630	1	6993	0
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182	1	1545	0	2908	1	4271	1	5634	1	6997	1
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193	0	1556	1	2919	0	4282	1	5645	0	7008	0
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196	0	1559	0	2922	1	4285	0	5648	1	7011	1
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198	0	1561	1	2924	1	4287	0	5650	0	7013	1
199	1	1562	0	2925	0	4288	1	5651	1	7014	0
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202	0	1565	1	2928	0	4291	0	5654	0	7017	0
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206	0	1569	1	2932	0	4295	0	5658	0	7021	1
207	1	1570	0	2933	1	4296	1	5659	0	7022	1
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212	0	1575	0	2938	1	4301	0	5664	1	7027	1
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217	0	1580	0	2943	1	4306	1	5669	0	7032	1
218	0	1581	1	2944	0	4307	1	5670	0	7033	0
219	1	1582	1	2945	1	4308	0	5671	0	7034	1
220	1	1583	0	2946	0	4309	1	5672	0	7035	0
221	1	1584	0	2947	0	4310	0	5673	0	7036	1
222	0	1585	0	2948	1	4311	1	5674	1	7037	1
223	1	1586	1	2949	0	4312	0	5675	0	7038	0
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225	0	1588	0	2951	1	4314	0	5677	1	7040	1
226	0	1589	0	2952	1	4315	0	5678	0	7041	0
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230	0	1593	0	2956	1	4319	0	5682	1	7045	0
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232	0	1595	1	2958	0	4321	0	5684	1	7047	1
233	1	1596	1	2959	0	4322	1	5685	1	7048	0
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235	0	1598	1	2961	0	4324	1	5687	0	7050	0
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237	0	1600	1	2963	1	4326	1	5689	1	7052	0
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239	1	1602	0	2965	0	4328	0	5691	0	7054	1
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243	0	1606	0	2969	1	4332	0	5695	1	7058	0
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245	0	1608	0	2971	0	4334	1	5697	1	7060	0
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248	0	1611	0	2974	0	4337	0	5700	1	7063	0
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251	0	1614	0	2977	1	4340	0	5703	1	7066	1
252	1	1615	1	2978	0	4341	0	5704	1	7067	0
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255	0	1618	1	2981	0	4344	0	5707	1	7070	0
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257	1	1620	0	2983	1	4346	0	5709	0	7072	1
258	0	1621	1	2984	0	4347	0	5710	0	7073	1
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261	1	1624	1	2987	0	4350	1	5713	1	7076	0
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283	0	1646	0	3009	0	4372	1	5735	1	7098	1
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285	1	1648	0	3011	1	4374	1	5737	1	7100	0
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287	1	1650	1	3013	1	4376	0	5739	1	7102	1
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293	0	1656	0	3019	0	4382	1	5745	0	7108	0
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307	0	1670	0	3033	1	4396	0	5759	0	7122	0
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313	0	1676	1	3039	1	4402	1	5765	0	7128	0
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316	0	1679	1	3042	0	4405	0	5768	0	7131	1
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325	1	1688	1	3051	0	4414	1	5777	0	7140	0
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397	1	1760	1	3123	0	4486	1	5849	0	7212	0
398	0	1761	1	3124	0	4487	1	5850	1	7213	1
399	1	1762	0	3125	0	4488	1	5851	1	7214	1
400	0	1763	1	3126	0	4489	0	5852	1	7215	1
401	1	1764	0	3127	1	4490	0	5853	1	7216	1
402	1	1765	0	3128	1	4491	1	5854	0	7217	1
403	0	1766	1	3129	1	4492	0	5855	0	7218	1
404	1	1767	0	3130	0	4493	0	5856	1	7219	1
405	0	1768	1	3131	1	4494	0	5857	0	7220	1

406	1	1769	1	3132	1	4495	1	5858	1	7221	0
407	1	1770	1	3133	1	4496	1	5859	1	7222	0
408	1	1771	0	3134	0	4497	1	5860	1	7223	0
409	0	1772	0	3135	1	4498	1	5861	0	7224	1
410	0	1773	1	3136	0	4499	1	5862	0	7225	0
411	0	1774	0	3137	0	4500	0	5863	1	7226	1
412	0	1775	0	3138	1	4501	0	5864	1	7227	0
413	1	1776	0	3139	0	4502	1	5865	0	7228	1
414	0	1777	1	3140	1	4503	1	5866	0	7229	0
415	1	1778	0	3141	1	4504	1	5867	1	7230	1
416	0	1779	0	3142	1	4505	1	5868	0	7231	1
417	0	1780	0	3143	0	4506	0	5869	0	7232	0
418	1	1781	0	3144	0	4507	0	5870	1	7233	0
419	0	1782	0	3145	1	4508	1	5871	0	7234	1
420	0	1783	1	3146	1	4509	0	5872	1	7235	0
421	1	1784	1	3147	0	4510	0	5873	1	7236	0
422	0	1785	1	3148	0	4511	0	5874	1	7237	0
423	0	1786	0	3149	1	4512	0	5875	0	7238	1
424	1	1787	1	3150	1	4513	1	5876	0	7239	1
425	1	1788	1	3151	1	4514	1	5877	0	7240	0
426	1	1789	0	3152	0	4515	1	5878	0	7241	0
427	1	1790	1	3153	0	4516	0	5879	1	7242	0
428	1	1791	1	3154	0	4517	0	5880	0	7243	1
429	0	1792	0	3155	1	4518	1	5881	0	7244	1
430	1	1793	0	3156	1	4519	1	5882	0	7245	1
431	1	1794	0	3157	1	4520	0	5883	1	7246	0
432	1	1795	1	3158	1	4521	1	5884	1	7247	1
433	0	1796	1	3159	1	4522	0	5885	0	7248	0
434	1	1797	0	3160	1	4523	1	5886	0	7249	1
435	0	1798	0	3161	1	4524	1	5887	1	7250	1
436	1	1799	0	3162	1	4525	0	5888	0	7251	0
437	1	1800	0	3163	1	4526	1	5889	1	7252	1
438	0	1801	0	3164	1	4527	0	5890	1	7253	1
439	1	1802	0	3165	0	4528	0	5891	1	7254	1
440	0	1803	1	3166	1	4529	0	5892	0	7255	0
441	1	1804	1	3167	1	4530	0	5893	1	7256	1
442	1	1805	0	3168	1	4531	0	5894	1	7257	0
443	0	1806	0	3169	0	4532	1	5895	1	7258	0
444	0	1807	1	3170	0	4533	1	5896	1	7259	1
445	1	1808	0	3171	1	4534	1	5897	1	7260	0
446	1	1809	1	3172	1	4535	1	5898	1	7261	1
447	0	1810	0	3173	0	4536	1	5899	1	7262	0
448	1	1811	1	3174	1	4537	1	5900	0	7263	1
449	1	1812	0	3175	0	4538	1	5901	0	7264	0

450	1	1813	0	3176	1	4539	0	5902	0	7265	1
451	0	1814	0	3177	1	4540	1	5903	1	7266	0
452	0	1815	1	3178	1	4541	0	5904	1	7267	1
453	1	1816	1	3179	0	4542	1	5905	0	7268	0
454	0	1817	0	3180	0	4543	1	5906	1	7269	0
455	0	1818	0	3181	0	4544	0	5907	0	7270	1
456	1	1819	0	3182	1	4545	0	5908	0	7271	0
457	0	1820	1	3183	1	4546	1	5909	0	7272	0
458	1	1821	1	3184	1	4547	0	5910	1	7273	0
459	0	1822	1	3185	0	4548	1	5911	1	7274	1
460	0	1823	0	3186	1	4549	0	5912	1	7275	1
461	1	1824	0	3187	0	4550	1	5913	0	7276	0
462	1	1825	1	3188	1	4551	0	5914	0	7277	1
463	1	1826	1	3189	0	4552	0	5915	1	7278	1
464	1	1827	0	3190	1	4553	1	5916	0	7279	1
465	1	1828	1	3191	0	4554	1	5917	1	7280	0
466	0	1829	0	3192	0	4555	0	5918	0	7281	1
467	0	1830	1	3193	0	4556	0	5919	1	7282	0
468	1	1831	1	3194	0	4557	1	5920	1	7283	1
469	0	1832	0	3195	1	4558	1	5921	0	7284	1
470	0	1833	0	3196	0	4559	1	5922	0	7285	1
471	0	1834	0	3197	1	4560	0	5923	0	7286	0
472	1	1835	0	3198	1	4561	0	5924	0	7287	0
473	1	1836	1	3199	0	4562	0	5925	1	7288	1
474	0	1837	1	3200	0	4563	1	5926	0	7289	1
475	0	1838	0	3201	0	4564	1	5927	1	7290	0
476	0	1839	1	3202	1	4565	1	5928	0	7291	0
477	0	1840	1	3203	0	4566	0	5929	0	7292	1
478	1	1841	1	3204	0	4567	1	5930	0	7293	0
479	0	1842	1	3205	1	4568	1	5931	0	7294	0
480	0	1843	0	3206	0	4569	1	5932	0	7295	0
481	1	1844	0	3207	1	4570	0	5933	1	7296	1
482	0	1845	0	3208	1	4571	1	5934	1	7297	1
483	1	1846	0	3209	1	4572	0	5935	1	7298	0
484	1	1847	1	3210	0	4573	1	5936	0	7299	0
485	1	1848	0	3211	0	4574	1	5937	0	7300	1
486	0	1849	1	3212	0	4575	0	5938	0	7301	1
487	1	1850	1	3213	1	4576	1	5939	0	7302	0
488	1	1851	0	3214	1	4577	0	5940	1	7303	0
489	1	1852	1	3215	1	4578	1	5941	0	7304	1
490	0	1853	0	3216	1	4579	1	5942	0	7305	0
491	1	1854	1	3217	1	4580	0	5943	0	7306	0
492	1	1855	0	3218	0	4581	1	5944	0	7307	1
493	0	1856	0	3219	1	4582	1	5945	1	7308	0

494	1	1857	1	3220	0	4583	0	5946	0	7309	0
495	1	1858	1	3221	0	4584	1	5947	0	7310	0
496	0	1859	1	3222	1	4585	0	5948	0	7311	1
497	0	1860	1	3223	0	4586	1	5949	1	7312	1
498	1	1861	0	3224	1	4587	1	5950	1	7313	0
499	1	1862	0	3225	1	4588	0	5951	0	7314	1
500	0	1863	1	3226	1	4589	1	5952	0	7315	0
501	0	1864	0	3227	0	4590	0	5953	1	7316	0
502	1	1865	1	3228	1	4591	1	5954	0	7317	1
503	0	1866	1	3229	1	4592	0	5955	1	7318	0
504	1	1867	0	3230	0	4593	0	5956	1	7319	1
505	1	1868	1	3231	1	4594	0	5957	0	7320	0
506	1	1869	0	3232	0	4595	1	5958	1	7321	1
507	1	1870	0	3233	0	4596	0	5959	1	7322	0
508	1	1871	0	3234	0	4597	1	5960	0	7323	1
509	1	1872	0	3235	0	4598	1	5961	0	7324	0
510	0	1873	1	3236	1	4599	0	5962	1	7325	0
511	1	1874	1	3237	0	4600	0	5963	0	7326	1
512	1	1875	1	3238	0	4601	1	5964	1	7327	1
513	0	1876	1	3239	0	4602	0	5965	1	7328	1
514	1	1877	0	3240	0	4603	0	5966	0	7329	0
515	1	1878	1	3241	1	4604	0	5967	0	7330	0
516	0	1879	0	3242	1	4605	1	5968	0	7331	1
517	1	1880	0	3243	1	4606	1	5969	0	7332	0
518	0	1881	0	3244	1	4607	1	5970	0	7333	1
519	0	1882	0	3245	0	4608	0	5971	1	7334	0
520	1	1883	1	3246	1	4609	0	5972	1	7335	0
521	1	1884	1	3247	0	4610	0	5973	1	7336	1
522	0	1885	1	3248	1	4611	1	5974	1	7337	0
523	0	1886	1	3249	1	4612	1	5975	0	7338	1
524	1	1887	1	3250	1	4613	1	5976	1	7339	1
525	0	1888	1	3251	1	4614	1	5977	0	7340	1
526	1	1889	1	3252	0	4615	0	5978	0	7341	1
527	1	1890	0	3253	0	4616	1	5979	0	7342	0
528	1	1891	1	3254	1	4617	0	5980	1	7343	0
529	0	1892	1	3255	1	4618	1	5981	0	7344	0
530	0	1893	0	3256	0	4619	0	5982	0	7345	1
531	1	1894	0	3257	1	4620	1	5983	1	7346	0
532	0	1895	1	3258	0	4621	1	5984	0	7347	0
533	1	1896	0	3259	1	4622	1	5985	1	7348	0
534	1	1897	0	3260	0	4623	1	5986	1	7349	0
535	0	1898	1	3261	1	4624	1	5987	0	7350	1
536	1	1899	1	3262	0	4625	0	5988	0	7351	1
537	0	1900	1	3263	1	4626	1	5989	0	7352	0

538	0	1901	1	3264	1	4627	0	5990	1	7353	1
539	1	1902	0	3265	1	4628	1	5991	1	7354	1
540	0	1903	0	3266	1	4629	0	5992	1	7355	1
541	0	1904	1	3267	0	4630	0	5993	1	7356	1
542	0	1905	1	3268	1	4631	1	5994	1	7357	0
543	0	1906	1	3269	1	4632	0	5995	1	7358	0
544	1	1907	1	3270	0	4633	0	5996	0	7359	0
545	0	1908	0	3271	0	4634	0	5997	1	7360	1
546	1	1909	0	3272	0	4635	0	5998	0	7361	1
547	1	1910	0	3273	1	4636	1	5999	1	7362	0
548	1	1911	0	3274	1	4637	1	6000	0	7363	0
549	1	1912	1	3275	1	4638	1	6001	0	7364	0
550	1	1913	1	3276	1	4639	0	6002	0	7365	1
551	1	1914	1	3277	0	4640	1	6003	1	7366	0
552	0	1915	1	3278	1	4641	1	6004	1	7367	0
553	0	1916	0	3279	0	4642	0	6005	0	7368	0
554	1	1917	0	3280	0	4643	1	6006	0	7369	0
555	1	1918	1	3281	0	4644	1	6007	0	7370	1
556	0	1919	1	3282	0	4645	1	6008	1	7371	1
557	0	1920	0	3283	0	4646	1	6009	0	7372	1
558	1	1921	0	3284	1	4647	0	6010	0	7373	1
559	1	1922	0	3285	0	4648	1	6011	0	7374	1
560	0	1923	0	3286	1	4649	1	6012	0	7375	1
561	0	1924	0	3287	1	4650	1	6013	1	7376	0
562	1	1925	1	3288	0	4651	0	6014	1	7377	0
563	0	1926	1	3289	0	4652	1	6015	0	7378	0
564	1	1927	1	3290	0	4653	1	6016	0	7379	0
565	1	1928	1	3291	1	4654	0	6017	0	7380	1
566	0	1929	0	3292	0	4655	1	6018	0	7381	1
567	1	1930	0	3293	0	4656	0	6019	1	7382	1
568	0	1931	1	3294	0	4657	0	6020	1	7383	1
569	0	1932	1	3295	1	4658	0	6021	1	7384	0
570	1	1933	0	3296	0	4659	1	6022	0	7385	1
571	1	1934	0	3297	0	4660	1	6023	1	7386	0
572	1	1935	1	3298	1	4661	1	6024	0	7387	1
573	0	1936	0	3299	0	4662	1	6025	1	7388	0
574	0	1937	0	3300	1	4663	0	6026	0	7389	1
575	1	1938	1	3301	0	4664	1	6027	1	7390	0
576	0	1939	0	3302	0	4665	1	6028	1	7391	1
577	1	1940	0	3303	0	4666	0	6029	0	7392	1
578	0	1941	0	3304	0	4667	0	6030	1	7393	0
579	1	1942	1	3305	0	4668	0	6031	1	7394	1
580	0	1943	1	3306	0	4669	1	6032	0	7395	0
581	0	1944	1	3307	1	4670	1	6033	0	7396	1

582	0	1945	1	3308	0	4671	0	6034	0	7397	1
583	1	1946	1	3309	1	4672	1	6035	1	7398	0
584	0	1947	0	3310	1	4673	1	6036	1	7399	1
585	1	1948	1	3311	0	4674	0	6037	0	7400	1
586	1	1949	0	3312	1	4675	0	6038	1	7401	0
587	0	1950	1	3313	0	4676	1	6039	0	7402	0
588	1	1951	0	3314	0	4677	0	6040	0	7403	1
589	1	1952	0	3315	0	4678	1	6041	0	7404	1
590	0	1953	0	3316	1	4679	0	6042	1	7405	0
591	0	1954	1	3317	0	4680	0	6043	0	7406	0
592	1	1955	1	3318	0	4681	0	6044	0	7407	1
593	1	1956	1	3319	0	4682	0	6045	0	7408	1
594	0	1957	0	3320	0	4683	0	6046	0	7409	1
595	0	1958	1	3321	1	4684	1	6047	1	7410	1
596	1	1959	1	3322	1	4685	0	6048	1	7411	0
597	0	1960	1	3323	0	4686	0	6049	0	7412	0
598	0	1961	0	3324	0	4687	1	6050	0	7413	0
599	1	1962	1	3325	1	4688	1	6051	0	7414	1
600	1	1963	0	3326	1	4689	1	6052	1	7415	0
601	1	1964	1	3327	0	4690	0	6053	0	7416	1
602	0	1965	0	3328	1	4691	0	6054	1	7417	1
603	0	1966	0	3329	1	4692	0	6055	0	7418	1
604	1	1967	1	3330	0	4693	0	6056	0	7419	1
605	1	1968	0	3331	1	4694	0	6057	0	7420	1
606	0	1969	1	3332	0	4695	1	6058	0	7421	1
607	0	1970	1	3333	1	4696	1	6059	0	7422	0
608	0	1971	0	3334	1	4697	1	6060	0	7423	1
609	1	1972	1	3335	1	4698	0	6061	1	7424	1
610	1	1973	0	3336	1	4699	0	6062	1	7425	0
611	1	1974	1	3337	1	4700	0	6063	1	7426	1
612	1	1975	0	3338	1	4701	0	6064	0	7427	0
613	0	1976	1	3339	1	4702	0	6065	0	7428	1
614	1	1977	1	3340	0	4703	0	6066	1	7429	1
615	0	1978	1	3341	0	4704	1	6067	0	7430	0
616	0	1979	0	3342	0	4705	0	6068	0	7431	0
617	1	1980	0	3343	1	4706	0	6069	1	7432	1
618	0	1981	0	3344	0	4707	0	6070	0	7433	0
619	1	1982	1	3345	1	4708	1	6071	1	7434	0
620	1	1983	1	3346	1	4709	1	6072	1	7435	1
621	0	1984	1	3347	0	4710	0	6073	1	7436	0
622	0	1985	0	3348	0	4711	0	6074	0	7437	1
623	1	1986	1	3349	0	4712	1	6075	1	7438	1
624	0	1987	1	3350	1	4713	0	6076	0	7439	1
625	1	1988	0	3351	0	4714	0	6077	0	7440	1

626	0	1989	1	3352	1	4715	0	6078	1	7441	1
627	1	1990	0	3353	1	4716	0	6079	1	7442	0
628	0	1991	1	3354	0	4717	1	6080	0	7443	1
629	0	1992	1	3355	1	4718	1	6081	1	7444	1
630	1	1993	1	3356	1	4719	0	6082	1	7445	1
631	0	1994	0	3357	1	4720	0	6083	1	7446	0
632	0	1995	0	3358	0	4721	1	6084	0	7447	1
633	0	1996	1	3359	0	4722	0	6085	1	7448	1
634	0	1997	0	3360	0	4723	1	6086	1	7449	0
635	1	1998	0	3361	0	4724	1	6087	1	7450	1
636	1	1999	1	3362	0	4725	1	6088	1	7451	0
637	1	2000	0	3363	0	4726	0	6089	0	7452	0
638	0	2001	0	3364	0	4727	1	6090	0	7453	0
639	0	2002	0	3365	0	4728	1	6091	1	7454	1
640	0	2003	1	3366	0	4729	0	6092	0	7455	0
641	1	2004	1	3367	0	4730	1	6093	0	7456	0
642	0	2005	1	3368	1	4731	1	6094	0	7457	1
643	1	2006	0	3369	0	4732	0	6095	1	7458	1
644	1	2007	0	3370	1	4733	1	6096	0	7459	1
645	0	2008	1	3371	1	4734	1	6097	0	7460	0
646	0	2009	1	3372	0	4735	1	6098	1	7461	0
647	0	2010	1	3373	1	4736	0	6099	0	7462	0
648	0	2011	1	3374	0	4737	0	6100	1	7463	1
649	0	2012	0	3375	0	4738	1	6101	1	7464	0
650	1	2013	0	3376	0	4739	0	6102	0	7465	0
651	1	2014	1	3377	1	4740	1	6103	1	7466	0
652	1	2015	1	3378	0	4741	0	6104	0	7467	1
653	1	2016	1	3379	0	4742	1	6105	1	7468	1
654	1	2017	0	3380	1	4743	1	6106	1	7469	0
655	1	2018	1	3381	1	4744	0	6107	0	7470	1
656	1	2019	1	3382	1	4745	0	6108	1	7471	0
657	1	2020	0	3383	1	4746	1	6109	1	7472	1
658	1	2021	1	3384	1	4747	0	6110	0	7473	1
659	1	2022	1	3385	1	4748	1	6111	0	7474	1
660	0	2023	1	3386	1	4749	1	6112	1	7475	1
661	0	2024	1	3387	1	4750	1	6113	0	7476	0
662	0	2025	0	3388	0	4751	1	6114	1	7477	0
663	1	2026	1	3389	0	4752	1	6115	0	7478	1
664	0	2027	0	3390	1	4753	1	6116	0	7479	0
665	1	2028	0	3391	0	4754	0	6117	1	7480	0
666	0	2029	1	3392	0	4755	1	6118	0	7481	0
667	1	2030	1	3393	0	4756	0	6119	1	7482	0
668	1	2031	0	3394	0	4757	0	6120	0	7483	0
669	0	2032	0	3395	1	4758	1	6121	0	7484	1

670	1	2033	0	3396	1	4759	0	6122	0	7485	1
671	1	2034	0	3397	1	4760	0	6123	1	7486	0
672	1	2035	0	3398	0	4761	0	6124	1	7487	0
673	0	2036	1	3399	0	4762	0	6125	1	7488	0
674	0	2037	1	3400	0	4763	0	6126	0	7489	0
675	1	2038	0	3401	0	4764	0	6127	0	7490	1
676	0	2039	1	3402	1	4765	0	6128	1	7491	0
677	1	2040	0	3403	0	4766	1	6129	1	7492	1
678	0	2041	0	3404	1	4767	0	6130	1	7493	1
679	1	2042	0	3405	0	4768	0	6131	1	7494	1
680	0	2043	0	3406	1	4769	1	6132	0	7495	1
681	0	2044	1	3407	0	4770	1	6133	0	7496	0
682	1	2045	0	3408	0	4771	0	6134	1	7497	1
683	0	2046	0	3409	1	4772	0	6135	0	7498	1
684	1	2047	1	3410	1	4773	0	6136	0	7499	1
685	0	2048	0	3411	1	4774	0	6137	0	7500	0
686	0	2049	0	3412	1	4775	1	6138	0	7501	0
687	0	2050	0	3413	1	4776	1	6139	0	7502	0
688	1	2051	1	3414	1	4777	1	6140	1	7503	0
689	1	2052	0	3415	0	4778	1	6141	0	7504	1
690	1	2053	0	3416	0	4779	1	6142	1	7505	1
691	1	2054	1	3417	0	4780	1	6143	1	7506	1
692	0	2055	1	3418	0	4781	1	6144	1	7507	1
693	0	2056	0	3419	0	4782	1	6145	1	7508	0
694	0	2057	0	3420	1	4783	0	6146	0	7509	1
695	1	2058	0	3421	0	4784	1	6147	0	7510	1
696	0	2059	0	3422	1	4785	0	6148	0	7511	0
697	0	2060	1	3423	1	4786	0	6149	0	7512	0
698	0	2061	0	3424	0	4787	0	6150	0	7513	1
699	1	2062	0	3425	1	4788	0	6151	1	7514	0
700	0	2063	1	3426	0	4789	1	6152	0	7515	1
701	1	2064	0	3427	1	4790	0	6153	1	7516	1
702	0	2065	0	3428	1	4791	1	6154	1	7517	0
703	1	2066	1	3429	1	4792	0	6155	0	7518	1
704	0	2067	0	3430	1	4793	0	6156	1	7519	1
705	0	2068	1	3431	0	4794	0	6157	1	7520	0
706	0	2069	1	3432	0	4795	0	6158	0	7521	1
707	1	2070	0	3433	1	4796	1	6159	1	7522	0
708	1	2071	1	3434	0	4797	1	6160	1	7523	0
709	0	2072	1	3435	0	4798	1	6161	1	7524	1
710	1	2073	1	3436	1	4799	0	6162	1	7525	0
711	1	2074	1	3437	1	4800	0	6163	0	7526	0
712	0	2075	1	3438	1	4801	0	6164	0	7527	1
713	1	2076	0	3439	0	4802	1	6165	0	7528	0

714	0	2077	1	3440	1	4803	1	6166	0	7529	0
715	1	2078	1	3441	1	4804	0	6167	0	7530	1
716	1	2079	1	3442	0	4805	1	6168	1	7531	1
717	1	2080	1	3443	1	4806	1	6169	0	7532	0
718	0	2081	1	3444	0	4807	0	6170	0	7533	0
719	1	2082	1	3445	0	4808	0	6171	0	7534	1
720	0	2083	0	3446	0	4809	0	6172	1	7535	1
721	0	2084	1	3447	0	4810	0	6173	0	7536	1
722	1	2085	0	3448	1	4811	0	6174	0	7537	0
723	0	2086	0	3449	0	4812	1	6175	0	7538	0
724	0	2087	0	3450	0	4813	1	6176	1	7539	0
725	0	2088	1	3451	0	4814	0	6177	1	7540	0
726	0	2089	1	3452	1	4815	1	6178	0	7541	1
727	1	2090	0	3453	0	4816	1	6179	0	7542	1
728	1	2091	1	3454	1	4817	0	6180	1	7543	1
729	1	2092	1	3455	0	4818	1	6181	1	7544	0
730	0	2093	0	3456	0	4819	0	6182	1	7545	1
731	0	2094	0	3457	1	4820	1	6183	1	7546	0
732	0	2095	1	3458	0	4821	0	6184	1	7547	1
733	0	2096	0	3459	0	4822	0	6185	0	7548	1
734	0	2097	0	3460	0	4823	1	6186	1	7549	0
735	1	2098	1	3461	0	4824	1	6187	0	7550	0
736	0	2099	0	3462	0	4825	1	6188	1	7551	0
737	0	2100	1	3463	1	4826	0	6189	0	7552	1
738	1	2101	0	3464	1	4827	0	6190	0	7553	0
739	0	2102	0	3465	0	4828	1	6191	1	7554	0
740	1	2103	0	3466	1	4829	1	6192	0	7555	0
741	1	2104	1	3467	0	4830	1	6193	1	7556	1
742	0	2105	0	3468	1	4831	0	6194	0	7557	1
743	0	2106	1	3469	0	4832	0	6195	0	7558	0
744	0	2107	1	3470	0	4833	1	6196	0	7559	1
745	1	2108	1	3471	0	4834	0	6197	0	7560	0
746	0	2109	1	3472	0	4835	1	6198	1	7561	1
747	1	2110	1	3473	0	4836	1	6199	0	7562	1
748	0	2111	1	3474	1	4837	0	6200	1	7563	0
749	1	2112	1	3475	1	4838	0	6201	1	7564	0
750	1	2113	1	3476	0	4839	0	6202	1	7565	1
751	1	2114	0	3477	1	4840	1	6203	0	7566	1
752	0	2115	1	3478	0	4841	0	6204	0	7567	0
753	1	2116	1	3479	1	4842	0	6205	1	7568	1
754	1	2117	0	3480	0	4843	0	6206	1	7569	0
755	0	2118	1	3481	0	4844	0	6207	0	7570	1
756	1	2119	0	3482	0	4845	1	6208	0	7571	0
757	1	2120	1	3483	0	4846	0	6209	0	7572	0

758	1	2121	0	3484	0	4847	0	6210	0	7573	1
759	1	2122	1	3485	0	4848	0	6211	0	7574	0
760	1	2123	0	3486	0	4849	0	6212	0	7575	1
761	0	2124	1	3487	0	4850	1	6213	1	7576	1
762	0	2125	0	3488	0	4851	1	6214	0	7577	0
763	0	2126	1	3489	0	4852	1	6215	1	7578	0
764	1	2127	0	3490	1	4853	0	6216	1	7579	0
765	0	2128	0	3491	0	4854	0	6217	0	7580	0
766	0	2129	0	3492	0	4855	1	6218	0	7581	1
767	0	2130	0	3493	1	4856	1	6219	1	7582	0
768	1	2131	0	3494	1	4857	0	6220	0	7583	0
769	1	2132	1	3495	1	4858	0	6221	1	7584	0
770	1	2133	1	3496	1	4859	0	6222	0	7585	0
771	0	2134	0	3497	0	4860	0	6223	0	7586	1
772	1	2135	1	3498	1	4861	1	6224	1	7587	0
773	0	2136	1	3499	0	4862	0	6225	0	7588	1
774	0	2137	1	3500	1	4863	1	6226	1	7589	0
775	0	2138	0	3501	0	4864	0	6227	1	7590	1
776	0	2139	0	3502	0	4865	1	6228	0	7591	0
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778	0	2141	1	3504	0	4867	0	6230	0	7593	1
779	1	2142	0	3505	1	4868	0	6231	1	7594	1
780	1	2143	1	3506	0	4869	0	6232	1	7595	1
781	1	2144	0	3507	1	4870	0	6233	0	7596	1
782	1	2145	0	3508	0	4871	0	6234	1	7597	1
783	0	2146	0	3509	1	4872	0	6235	1	7598	0
784	0	2147	1	3510	1	4873	1	6236	0	7599	0
785	1	2148	1	3511	1	4874	0	6237	0	7600	1
786	0	2149	1	3512	1	4875	0	6238	0	7601	1
787	0	2150	0	3513	1	4876	0	6239	0	7602	1
788	1	2151	0	3514	0	4877	1	6240	0	7603	0
789	0	2152	1	3515	1	4878	0	6241	1	7604	1
790	0	2153	1	3516	1	4879	1	6242	1	7605	1
791	0	2154	1	3517	0	4880	1	6243	0	7606	1
792	0	2155	1	3518	0	4881	0	6244	1	7607	0
793	1	2156	1	3519	1	4882	0	6245	0	7608	0
794	1	2157	1	3520	1	4883	1	6246	0	7609	1
795	1	2158	1	3521	1	4884	0	6247	1	7610	1
796	0	2159	0	3522	0	4885	1	6248	1	7611	0
797	0	2160	0	3523	0	4886	0	6249	1	7612	1
798	0	2161	0	3524	1	4887	1	6250	0	7613	0
799	1	2162	1	3525	0	4888	0	6251	1	7614	1
800	1	2163	1	3526	0	4889	1	6252	1	7615	0
801	1	2164	0	3527	0	4890	1	6253	0	7616	1

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803	1	2166	1	3529	0	4892	1	6255	1	7618	1
804	1	2167	1	3530	1	4893	1	6256	0	7619	0
805	1	2168	1	3531	1	4894	1	6257	0	7620	1
806	1	2169	1	3532	1	4895	0	6258	1	7621	1
807	1	2170	1	3533	1	4896	1	6259	1	7622	1
808	1	2171	0	3534	0	4897	1	6260	0	7623	0
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810	1	2173	1	3536	1	4899	0	6262	0	7625	0
811	1	2174	0	3537	0	4900	1	6263	1	7626	1
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813	1	2176	1	3539	1	4902	1	6265	1	7628	0
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815	1	2178	1	3541	0	4904	1	6267	1	7630	0
816	1	2179	0	3542	0	4905	0	6268	0	7631	0
817	0	2180	1	3543	1	4906	0	6269	0	7632	0
818	0	2181	1	3544	1	4907	1	6270	0	7633	1
819	1	2182	1	3545	0	4908	1	6271	0	7634	1
820	1	2183	0	3546	0	4909	0	6272	1	7635	1
821	0	2184	0	3547	1	4910	1	6273	0	7636	0
822	1	2185	1	3548	0	4911	1	6274	1	7637	1
823	0	2186	0	3549	1	4912	1	6275	1	7638	1
824	0	2187	0	3550	1	4913	0	6276	0	7639	0
825	1	2188	0	3551	1	4914	0	6277	0	7640	0
826	1	2189	0	3552	1	4915	1	6278	0	7641	0
827	0	2190	1	3553	0	4916	0	6279	0	7642	1
828	1	2191	0	3554	0	4917	1	6280	0	7643	1
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830	1	2193	1	3556	1	4919	0	6282	0	7645	1
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832	1	2195	1	3558	0	4921	0	6284	1	7647	0
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834	1	2197	0	3560	1	4923	0	6286	0	7649	0
835	1	2198	1	3561	1	4924	0	6287	1	7650	1
836	0	2199	0	3562	0	4925	1	6288	1	7651	1
837	1	2200	0	3563	1	4926	0	6289	1	7652	0
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839	0	2202	0	3565	1	4928	1	6291	0	7654	1
840	1	2203	0	3566	1	4929	1	6292	1	7655	1
841	0	2204	1	3567	0	4930	0	6293	1	7656	1
842	1	2205	1	3568	0	4931	0	6294	1	7657	0
843	1	2206	0	3569	0	4932	1	6295	1	7658	1
844	0	2207	0	3570	1	4933	0	6296	0	7659	1
845	1	2208	1	3571	0	4934	0	6297	0	7660	0

846	0	2209	0	3572	0	4935	0	6298	0	7661	0
847	0	2210	0	3573	1	4936	1	6299	0	7662	0
848	0	2211	0	3574	0	4937	1	6300	1	7663	1
849	0	2212	0	3575	0	4938	1	6301	0	7664	1
850	0	2213	1	3576	0	4939	1	6302	1	7665	0
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852	0	2215	1	3578	0	4941	1	6304	1	7667	0
853	1	2216	0	3579	1	4942	1	6305	1	7668	0
854	1	2217	1	3580	0	4943	1	6306	0	7669	0
855	1	2218	1	3581	0	4944	0	6307	0	7670	1
856	0	2219	1	3582	0	4945	0	6308	0	7671	1
857	0	2220	0	3583	1	4946	0	6309	0	7672	0
858	0	2221	0	3584	0	4947	1	6310	1	7673	0
859	0	2222	1	3585	1	4948	0	6311	0	7674	0
860	1	2223	1	3586	0	4949	0	6312	0	7675	1
861	1	2224	0	3587	0	4950	0	6313	1	7676	1
862	0	2225	1	3588	0	4951	1	6314	1	7677	1
863	1	2226	0	3589	0	4952	0	6315	1	7678	0
864	0	2227	0	3590	1	4953	0	6316	1	7679	1
865	1	2228	0	3591	1	4954	1	6317	1	7680	0
866	0	2229	0	3592	1	4955	0	6318	1	7681	1
867	1	2230	0	3593	0	4956	1	6319	0	7682	1
868	0	2231	0	3594	1	4957	0	6320	1	7683	0
869	0	2232	1	3595	0	4958	0	6321	0	7684	1
870	0	2233	0	3596	0	4959	1	6322	0	7685	0
871	0	2234	1	3597	0	4960	0	6323	1	7686	1
872	0	2235	1	3598	1	4961	0	6324	0	7687	1
873	1	2236	1	3599	0	4962	0	6325	0	7688	0
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875	0	2238	1	3601	0	4964	1	6327	1	7690	0
876	1	2239	1	3602	0	4965	0	6328	0	7691	1
877	0	2240	0	3603	0	4966	0	6329	0	7692	0
878	1	2241	0	3604	1	4967	1	6330	0	7693	1
879	0	2242	1	3605	0	4968	1	6331	1	7694	1
880	0	2243	0	3606	0	4969	1	6332	1	7695	1
881	1	2244	1	3607	0	4970	0	6333	0	7696	0
882	0	2245	1	3608	0	4971	1	6334	1	7697	1
883	1	2246	1	3609	0	4972	0	6335	1	7698	1
884	0	2247	0	3610	0	4973	0	6336	0	7699	1
885	0	2248	0	3611	1	4974	0	6337	0	7700	1
886	1	2249	0	3612	0	4975	1	6338	1	7701	0
887	0	2250	0	3613	0	4976	0	6339	0	7702	1
888	1	2251	1	3614	1	4977	1	6340	1	7703	0
889	0	2252	1	3615	0	4978	0	6341	1	7704	0

890	0	2253	0	3616	0	4979	1	6342	0	7705	1
891	0	2254	0	3617	1	4980	0	6343	0	7706	0
892	0	2255	1	3618	0	4981	0	6344	1	7707	1
893	1	2256	0	3619	0	4982	0	6345	0	7708	1
894	0	2257	0	3620	0	4983	1	6346	0	7709	0
895	0	2258	1	3621	1	4984	0	6347	1	7710	1
896	0	2259	1	3622	1	4985	0	6348	0	7711	1
897	0	2260	0	3623	0	4986	0	6349	0	7712	0
898	1	2261	0	3624	1	4987	0	6350	1	7713	1
899	1	2262	1	3625	0	4988	0	6351	0	7714	0
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906	1	2269	1	3632	1	4995	0	6358	1	7721	0
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913	1	2276	1	3639	1	5002	0	6365	0	7728	0
914	1	2277	0	3640	0	5003	1	6366	0	7729	0
915	1	2278	1	3641	0	5004	1	6367	1	7730	0
916	0	2279	1	3642	1	5005	1	6368	0	7731	0
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922	0	2285	1	3648	1	5011	1	6374	0	7737	0
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926	1	2289	0	3652	0	5015	1	6378	1	7741	1
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929	0	2292	0	3655	0	5018	0	6381	0	7744	1
930	0	2293	0	3656	1	5019	0	6382	0	7745	0
931	1	2294	0	3657	1	5020	0	6383	1	7746	1
932	1	2295	1	3658	0	5021	0	6384	0	7747	1
933	0	2296	1	3659	0	5022	1	6385	0	7748	0

934	1	2297	1	3660	0	5023	0	6386	1	7749	1
935	1	2298	0	3661	1	5024	0	6387	0	7750	1
936	0	2299	1	3662	0	5025	1	6388	0	7751	1
937	0	2300	0	3663	1	5026	0	6389	1	7752	0
938	0	2301	0	3664	0	5027	0	6390	0	7753	1
939	0	2302	0	3665	1	5028	0	6391	0	7754	1
940	1	2303	1	3666	0	5029	1	6392	0	7755	0
941	0	2304	0	3667	1	5030	1	6393	0	7756	1
942	0	2305	1	3668	1	5031	0	6394	0	7757	1
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946	1	2309	1	3672	1	5035	1	6398	1	7761	1
947	1	2310	0	3673	1	5036	1	6399	0	7762	1
948	1	2311	0	3674	1	5037	1	6400	0	7763	0
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950	1	2313	0	3676	0	5039	1	6402	1	7765	0
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954	0	2317	1	3680	0	5043	1	6406	1	7769	1
955	1	2318	0	3681	1	5044	0	6407	0	7770	0
956	1	2319	1	3682	1	5045	0	6408	0	7771	1
957	1	2320	0	3683	1	5046	0	6409	1	7772	1
958	1	2321	0	3684	0	5047	1	6410	1	7773	1
959	0	2322	0	3685	0	5048	0	6411	1	7774	0
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961	0	2324	0	3687	1	5050	0	6413	1	7776	1
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963	0	2326	0	3689	0	5052	0	6415	1	7778	1
964	1	2327	1	3690	0	5053	0	6416	0	7779	0
965	1	2328	0	3691	0	5054	0	6417	0	7780	0
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967	1	2330	1	3693	0	5056	0	6419	1	7782	0
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975	0	2338	1	3701	1	5064	1	6427	1	7790	1
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1215	1	2578	0	3941	0	5304	1	6667	1	8030	0
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1217	1	2580	1	3943	1	5306	0	6669	1	8032	0
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1228	1	2591	1	3954	1	5317	0	6680	0	8043	0
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1234	0	2597	1	3960	0	5323	0	6686	0	8049	1
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