

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

GUO-NIU HAN* AND YINING HU*

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

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 $(a, b) = (z^2 + z + 1, z^4 + z^2 + z + 1)$, 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 $\text{CF}(a, b)$,

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{15} + z^{13} + z^{12} + z^9 + z^5 + z^4 + z^2 + 1, \\ p_1(z) &= z^{22} + z^{21} + z^{20} + z^{19} + z^{17} + z^{14} + z^{13} + z^{12} + z^9 + z^8 + z^6 + z^4, \\ p_2(z) &= z^{24} + z^{18} + z^{12} + 1, \\ p_3(z) &= z^{22} + z^{21} + z^{20} + z^{19} + z^{17} + z^{14} + z^{13} + z^{12} + z^9 + z^8 + z^6 + z^4, \\ p_4(z) &= z^{20} + z^{17} + z^{16} + z^{15} + z^{13} + z^9 + z^8 + z^5 + z^4 + z^2 + 1, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{16} + z^{15} + z^{13} + z^{12} + z^9 + z^5 + z^4 + z^2 + 1, \\ p_1(z) &= z^{22} + z^{21} + z^{20} + z^{19} + z^{17} + z^{14} + z^{13} + z^{12} + z^9 + z^8 + z^6 + z^4, \\ p_2(z) &= z^{24} + z^{18} + z^{12} + 1, \\ p_3(z) &= z^{22} + z^{21} + z^{20} + z^{19} + z^{17} + z^{14} + z^{13} + z^{12} + z^9 + z^8 + z^6 + z^4, \\ p_4(z) &= z^{20} + z^{17} + z^{15} + z^{13} + z^9 + z^8 + z^5 + z^4 + z^2 + 1. \end{aligned}$$

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 $\bar{t}$ 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,

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

Therefore, by the convergence theorem of continued fraction, the algebraicity of $\text{CF}(a, b)$ will be established if it is shown that both $M_{2^n}(x)_{0,1}$ and $M_{2^n}(x)_{0,0}$ 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 $(M_{2^n}(x)_{i,j})_n$, $(M_{2^{n+1}}(x)_{i,j})_n$, $(W_{2^n}(x)_{i,j})_n$, and $(W_{2^{n+1}}(x)_{i,j})_n$ 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 $(M_{2^n}(x))_n$, $(M_{2^{n+1}}(x))_n$, $(W_{2^n}(x))_n$, and $(W_{2^{n+1}}(x))_n$.

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

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

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

$$\begin{aligned} M^e[:12u] &= M^e[:6u] + x^u M^e[:5u] + x^{5u} M^e[:u] + x^u M^e[:6u] + x^{2u} M^e[:5u] \\ &\quad + x^{6u} M^e[:u] + x^{2u} M^e[:6u] + x^{3u} M^e[:5u] + x^{7u} M^e[:u] \\ &\quad + x^{3u} M^e[:6u] + x^{4u} M^e[:5u] + x^{8u} M^e[:u] + x^{4u} M^e[:6u] \\ &\quad + x^{5u} M^e[:5u] + x^{9u} M^e[:u] + x^{6u} M^e[:6u] + x^{8u} M^e[:4u] \\ &\quad + x^{9u} M^e[:3u] + x^{10u} M^e[:2u] \\ &\quad + (x^{6u} + x^{7u} + x^{8u} + x^{9u} + x^{10u}) R^e, \end{aligned}$$

$$\begin{aligned}
W^e[:12u] &= W^e[:6u] + x^u W^e[:5u] + x^{5u} W^e[:u] + x^u W^e[:6u] + x^{2u} W^e[:5u] \\
&\quad + x^{6u} W^e[:u] + x^{2u} W^e[:6u] + x^{3u} W^e[:5u] + x^{7u} W^e[:u] \\
&\quad + x^{3u} W^e[:6u] + x^{4u} W^e[:5u] + x^{8u} W^e[:u] + x^{4u} W^e[:6u] \\
&\quad + x^{5u} W^e[:5u] + x^{9u} W^e[:u] + x^{6u} W^e[:6u] + x^{8u} W^e[:4u] \\
&\quad + x^{9u} W^e[:3u] + x^{10u} W^e[:2u] \\
&\quad + (x^{6u} + x^{7u} + x^{8u} + x^{9u} + x^{10u}) R^e.
\end{aligned}$$

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

$$\begin{aligned}
M^o[:12u] &= M^o[:6u] + x^u M^o[:5u] + x^{5u} M^o[:u] + x^u M^o[:6u] + x^{2u} M^o[:5u] \\
&\quad + x^{6u} M^o[:u] + x^{2u} M^o[:6u] + x^{3u} M^o[:5u] + x^{7u} M^o[:u] \\
&\quad + x^{3u} M^o[:6u] + x^{4u} M^o[:5u] + x^{8u} M^o[:u] + x^{4u} M^o[:6u] \\
&\quad + x^{5u} M^o[:5u] + x^{9u} M^o[:u] + x^{6u} M^o[:6u] + x^{8u} M^o[:4u] \\
&\quad + x^{9u} M^o[:3u] + x^{10u} M^o[:2u] \\
&\quad + (x^{6u} + x^{7u} + x^{8u} + x^{9u} + x^{10u}) R^o, \\
W^o[:12u] &= W^o[:6u] + x^u W^o[:5u] + x^{5u} W^o[:u] + x^u W^o[:6u] + x^{2u} W^o[:5u] \\
&\quad + x^{6u} W^o[:u] + x^{2u} W^o[:6u] + x^{3u} W^o[:5u] + x^{7u} W^o[:u] \\
&\quad + x^{3u} W^o[:6u] + x^{4u} W^o[:5u] + x^{8u} W^o[:u] + x^{4u} W^o[:6u] \\
&\quad + x^{5u} W^o[:5u] + x^{9u} W^o[:u] + x^{6u} W^o[:6u] + x^{8u} W^o[:4u] \\
&\quad + x^{9u} W^o[:3u] + x^{10u} W^o[:2u] \\
&\quad + (x^{6u} + x^{7u} + x^{8u} + x^{9u} + x^{10u}) R^o.
\end{aligned}$$

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 $u = 2^{2k}$,

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

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

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

$$\begin{aligned}
x^1 0u &= x^{10u}T[:u] + x^{9u}T[u:2u] + x^{8u}T[2u:3u] + x^{6u}T[4u:5u] \\
&\quad + T[10u:11u], \\
0 &= x^{10u}T[u:2u] + x^{9u}T[2u:3u] + x^{8u}T[3u:4u] + x^{6u}T[5u:6u] \\
&\quad + T[11u:12u],
\end{aligned}$$

which can be rewritten as

$$\begin{aligned}
(2.7) \quad 0 &= T[[1w]_2] + T[[101w]_2] + T[[110w]_2], \\
(2.8) \quad 0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[101w]_2] + T[[111w]_2], \\
(2.9) \quad 0 &= T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1000w]_2], \\
(2.10) \quad 0 &= T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2], \\
(2.11) \quad 0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[1010w]_2], \\
(2.12) \quad 0 &= T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1011w]_2],
\end{aligned}$$

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

$$\begin{aligned}
(2.13) \quad 1 &= T[[1w]_2] + T[[101w]_2] + T[[110w]_2], \\
(2.14) \quad 1 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[101w]_2] + T[[111w]_2], \\
(2.15) \quad 1 &= T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1000w]_2], \\
(2.16) \quad 1 &= T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2], \\
(2.17) \quad 1 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[1010w]_2], \\
(2.18) \quad 0 &= T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1011w]_2],
\end{aligned}$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8085 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

$$\begin{aligned}
(2.19) \quad 0 &= \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 110)), \\
&\quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 101)) \\
(2.20) \quad &\quad + \tau(A(s, 111)), \\
(2.21) \quad 0 &= \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1000)), \\
&\quad 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\
(2.22) \quad &\quad + \tau(A(s, 1001)), \\
&\quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\
(2.23) \quad &\quad + \tau(A(s, 1010)), \\
&\quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\
(2.24) \quad &\quad + \tau(A(s, 1011)),
\end{aligned}$$

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

$$(2.25) \quad 1 = \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 110)),$$

$$\begin{aligned}
(2.26) \quad & 1 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 101)) \\
& \quad + \tau(A(s, 111)), \\
(2.27) \quad & 1 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1000)), \\
& 1 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\
(2.28) \quad & \quad + \tau(A(s, 1001)), \\
(2.29) \quad & 1 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\
& \quad + \tau(A(s, 1010)), \\
(2.30) \quad & 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\
& \quad + \tau(A(s, 1011)),
\end{aligned}$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{36}), E_{36}) = (A(i, 0^{16}), E_{16})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 18$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

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

$$W^e[:12v] M^e[:12v] + x^{2v} W^e[:10v] M^e[:10v] + x^{10v} W^e[:2v] M^e[:2v].$$

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 $0 \leq j, k \leq 1$,

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

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

$$\begin{aligned} q_0(x) &= x^{24} + x^{22} + x^{20} + x^{19} + x^{15} + x^{12} + x^{11} + x^9 + x^7 + x^6, \\ q_1(x) &= x^{20} + x^{18} + x^{16} + x^{15} + x^{12} + x^{11} + x^{10} + x^7 + x^5 + x^4 + x^3 + x^2, \\ q_2(x) &= x^{24} + x^{12} + x^6 + 1, \\ q_3(x) &= x^{20} + x^{18} + x^{16} + x^{15} + x^{12} + x^{11} + x^{10} + x^7 + x^5 + x^4 + x^3 + x^2, \\ q_4(x) &= x^{24} + x^{22} + x^{20} + x^{19} + x^{16} + x^{15} + x^{11} + x^9 + x^8 + x^7 + x^4. \end{aligned}$$

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

$$\begin{aligned} p_0(x) &= x^{132} + x^{130} + x^{126} + x^{118} + x^{116} + x^{112} + x^{102} + x^{100} + x^{94} + x^{90} \\ &\quad + x^{86} + x^{80} + x^{76} + x^{72} + x^{58} + x^{54} + x^{48} + x^{46} + x^{44} + x^{40} + x^{32} \\ &\quad + x^{30} + x^{28} + x^{26} + x^{24}, \\ p_3(x) &= x^{124} + x^{122} + x^{120} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} \\ &\quad + x^{90} + x^{86} + x^{78} + x^{76} + x^{66} + x^{60} + x^{56} + x^{54} + x^{50} + x^{48} + x^{46} \\ &\quad + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} + x^{20}, \\ p_6(x) &= x^{128} + x^{126} + x^{118} + x^{116} + x^{112} + x^{108} + x^{102} + x^{98} + x^{92} + x^{90} \\ &\quad + x^{88} + x^{84} + x^{82} + x^{80} + x^{76} + x^{68} + x^{66} + x^{62} + x^{52} + x^{50} + x^{48} \\ &\quad + x^{44} + x^{42} + x^{38} + x^{36} + x^{28} + x^{24} + x^{22} + x^{14} + x^{12} + x^2 + 1, \\ p_9(x) &= x^{124} + x^{122} + x^{118} + x^{112} + x^{108} + x^{104} + x^{102} + x^{100} + x^{96} + x^{86} \\ &\quad + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{64} + x^{62} + x^{60} + x^{50} + x^{46} \\ &\quad + x^{40} + x^{36} + x^{32} + x^{30} + x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^4, \\ p_{12}(x) &= x^{132} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{116} + x^{114} + x^{112} + x^{92} \\ &\quad + x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{60} + x^{58} + x^{56} + x^{44} + x^{42} + x^{40} \\ &\quad + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^4 + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} \\ &\quad + x^{106} + x^{105} + x^{104} + x^{101} + x^{99} + x^{98} + x^{96} + x^{94} + x^{92} + x^{91} \\ &\quad + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{72} \\ &\quad + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{62} + x^{57} + x^{56} + x^{52} + x^{48} \\ &\quad + x^{47} + x^{41} + x^{40} + x^{39} + x^{38} + x^{34} + x^{30}, \\ p_3(x) &= x^{90} + x^{78} + x^{74} + x^{72} + x^{66} + x^{62} + x^{58} + x^{56} + x^{46} + x^{42} + x^{40} \\ &\quad + x^{38} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24} + x^{18}, \\ p_6(x) &= x^{102} + x^{100} + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} \\ &\quad + x^{86} + x^{84} + x^{82} + x^{79} + x^{76} + x^{73} + x^{68} + x^{67} + x^{65} + x^{61} + x^{60} \\ &\quad + x^{58} + x^{54} + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{39} + x^{37} \\ &\quad + x^{35} + x^{32} + x^{31} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{21} + x^{20} + x^{19} \end{aligned}$$

$$\begin{aligned}
& + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12}, \\
p_9(x) &= x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} + x^{94} + x^{88} + x^{80} + x^{78} + x^{72} \\
& + x^{68} + x^{66} + x^{62} + x^{52} + x^{48} + x^{38} + x^{36} + x^{32} + x^{28} + x^{24} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{10} + x^8 + x^6, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{81} \\
& + x^{80} + x^{74} + x^{72} + x^{70} + x^{69} + x^{65} + x^{64} + x^{62} + x^{60} + x^{57} + x^{56} \\
& + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{41} + x^{37} + x^{36} + x^{30} \\
& + x^{28} + x^{26} + x^{25} + x^{21} + x^{20} + x^{10} + x^8 + x^6 + x^5 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} \\
& + x^{106} + x^{105} + x^{104} + x^{101} + x^{99} + x^{98} + x^{96} + x^{94} + x^{92} + x^{91} \\
& + x^{87} + x^{84} + x^{83} + x^{82} + x^{81} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{72} \\
& + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{62} + x^{57} + x^{56} + x^{52} + x^{48} \\
& + x^{47} + x^{41} + x^{40} + x^{39} + x^{38} + x^{34} + x^{30}, \\
p_3(x) &= x^{90} + x^{78} + x^{74} + x^{72} + x^{66} + x^{62} + x^{58} + x^{56} + x^{46} + x^{42} + x^{40} \\
& + x^{38} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24} + x^{18}, \\
p_6(x) &= x^{102} + x^{100} + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{76} + x^{73} + x^{68} + x^{67} + x^{65} + x^{61} + x^{60} \\
& + x^{58} + x^{54} + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{39} + x^{37} \\
& + x^{35} + x^{32} + x^{31} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{21} + x^{20} + x^{19} \\
& + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12}, \\
p_9(x) &= x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} + x^{94} + x^{88} + x^{80} + x^{78} + x^{72} \\
& + x^{68} + x^{66} + x^{62} + x^{52} + x^{48} + x^{38} + x^{36} + x^{32} + x^{28} + x^{24} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{10} + x^8 + x^6, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{81} \\
& + x^{80} + x^{74} + x^{72} + x^{70} + x^{69} + x^{65} + x^{64} + x^{62} + x^{60} + x^{57} + x^{56} \\
& + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{41} + x^{37} + x^{36} + x^{30} \\
& + x^{28} + x^{26} + x^{25} + x^{21} + x^{20} + x^{10} + x^8 + x^6 + x^5 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{104} + x^{96} + x^{90} + x^{84} \\
& + x^{82} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{54} + x^{48} + x^{44}
\end{aligned}$$

$$\begin{aligned}
& + x^{38} + x^{36}, \\
p_3(x) &= x^{112} + x^{110} + x^{108} + x^{104} + x^{88} + x^{86} + x^{74} + x^{72} + x^{70} + x^{68} + x^{62} \\
& + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} + x^{46} + x^{42} + x^{40} + x^{34} + x^{28} + x^{26} \\
& + x^{20} + x^{16} + x^{14} + x^{12}, \\
p_6(x) &= x^{116} + x^{114} + x^{108} + x^{106} + x^{104} + x^{92} + x^{88} + x^{86} + x^{84} + x^{74} + x^{72} \\
& + x^{70} + x^{68} + x^{66} + x^{60} + x^{54} + x^{52} + x^{46} + x^{40} + x^{38} + x^{26} + x^{18} \\
& + x^{16} + x^{12} + x^{10} + 1, \\
p_9(x) &= x^{112} + x^{110} + x^{106} + x^{104} + x^{94} + x^{90} + x^{88} + x^{80} + x^{78} + x^{76} + x^{74} \\
& + x^{66} + x^{62} + x^{60} + x^{56} + x^{52} + x^{44} + x^{42} + x^{32} + x^{30} + x^{28} + x^{26} \\
& + x^{24} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^8 + x^6 + x^4, \\
p_{12}(x) &= x^{120} + x^{118} + x^{116} + x^{110} + x^{108} + x^{102} + x^{100} + x^{96} + x^{88} + x^{86} \\
& + x^{84} + x^{78} + x^{76} + x^{70} + x^{68} + x^{64} + x^{56} + x^{54} + x^{52} + x^{46} + x^{44} \\
& + x^{40} + x^{32} + x^{30} + x^{28} + x^{24} + x^{16} + x^{14} + x^{12} + x^6 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{102} + x^{100} + x^{96} + x^{94} \\
& + x^{92} + x^{90} + x^{86} + x^{84} + x^{78} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} + x^{60} \\
& + x^{48} + x^{40} + x^{38} + x^{32} + x^{28} + x^{24}, \\
p_3(x) &= x^{112} + x^{110} + x^{108} + x^{104} + x^{96} + x^{94} + x^{90} + x^{86} + x^{84} + x^{82} + x^{80} \\
& + x^{74} + x^{72} + x^{70} + x^{66} + x^{58} + x^{48} + x^{40} + x^{38} + x^{36} + x^{34} + x^{22}, \\
p_6(x) &= x^{116} + x^{114} + x^{108} + x^{106} + x^{102} + x^{100} + x^{94} + x^{92} + x^{90} + x^{88} \\
& + x^{80} + x^{70} + x^{68} + x^{62} + x^{60} + x^{58} + x^{52} + x^{46} + x^{44} + x^{42} + x^{40} \\
& + x^{38} + x^{36} + x^{34} + x^{22} + x^{10} + x^8 + 1, \\
p_9(x) &= x^{112} + x^{110} + x^{106} + x^{104} + x^{94} + x^{90} + x^{88} + x^{80} + x^{78} + x^{76} + x^{74} \\
& + x^{66} + x^{62} + x^{60} + x^{56} + x^{52} + x^{44} + x^{42} + x^{32} + x^{30} + x^{28} + x^{26} \\
& + x^{24} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^8 + x^6 + x^4, \\
p_{12}(x) &= x^{120} + x^{118} + x^{116} + x^{110} + x^{108} + x^{102} + x^{100} + x^{96} + x^{88} + x^{86} \\
& + x^{84} + x^{78} + x^{76} + x^{70} + x^{68} + x^{64} + x^{56} + x^{54} + x^{52} + x^{46} + x^{44} \\
& + x^{40} + x^{32} + x^{30} + x^{28} + x^{24} + x^{16} + x^{14} + x^{12} + x^6 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} \\
& + x^{106} + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} + x^{94} \\
& + x^{93} + x^{92} + x^{91} + x^{88} + x^{86} + x^{85} + x^{83} + x^{81} + x^{80} + x^{70} + x^{69} \\
& + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52}
\end{aligned}$$

$$\begin{aligned}
& + x^{50} + x^{49} + x^{46} + x^{45} + x^{43} + x^{42} + x^{37} + x^{36} + x^{33} + x^{32} + x^{30}, \\
p_3(x) &= x^{90} + x^{78} + x^{74} + x^{72} + x^{66} + x^{62} + x^{58} + x^{56} + x^{46} + x^{42} + x^{40} \\
& + x^{38} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24} + x^{18}, \\
p_6(x) &= x^{102} + x^{100} + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{76} + x^{73} + x^{68} + x^{67} + x^{65} + x^{61} + x^{60} \\
& + x^{58} + x^{54} + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{39} + x^{37} \\
& + x^{35} + x^{32} + x^{31} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{21} + x^{20} + x^{19} \\
& + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12}, \\
p_9(x) &= x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} + x^{94} + x^{88} + x^{80} + x^{78} + x^{72} \\
& + x^{68} + x^{66} + x^{62} + x^{52} + x^{48} + x^{38} + x^{36} + x^{32} + x^{28} + x^{24} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{10} + x^8 + x^6, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{81} \\
& + x^{80} + x^{74} + x^{72} + x^{70} + x^{69} + x^{65} + x^{64} + x^{62} + x^{60} + x^{57} + x^{56} \\
& + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{41} + x^{37} + x^{36} + x^{30} \\
& + x^{28} + x^{26} + x^{25} + x^{21} + x^{20} + x^{10} + x^8 + x^6 + x^5 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} \\
& + x^{106} + x^{105} + x^{104} + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} + x^{94} \\
& + x^{93} + x^{92} + x^{91} + x^{88} + x^{86} + x^{85} + x^{83} + x^{81} + x^{80} + x^{70} + x^{69} \\
& + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} \\
& + x^{50} + x^{49} + x^{46} + x^{45} + x^{43} + x^{42} + x^{37} + x^{36} + x^{33} + x^{32} + x^{30}, \\
p_3(x) &= x^{90} + x^{78} + x^{74} + x^{72} + x^{66} + x^{62} + x^{58} + x^{56} + x^{46} + x^{42} + x^{40} \\
& + x^{38} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24} + x^{18}, \\
p_6(x) &= x^{102} + x^{100} + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} \\
& + x^{86} + x^{84} + x^{82} + x^{79} + x^{76} + x^{73} + x^{68} + x^{67} + x^{65} + x^{61} + x^{60} \\
& + x^{58} + x^{54} + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{39} + x^{37} \\
& + x^{35} + x^{32} + x^{31} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{21} + x^{20} + x^{19} \\
& + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12}, \\
p_9(x) &= x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} + x^{94} + x^{88} + x^{80} + x^{78} + x^{72} \\
& + x^{68} + x^{66} + x^{62} + x^{52} + x^{48} + x^{38} + x^{36} + x^{32} + x^{28} + x^{24} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{10} + x^8 + x^6, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{81}
\end{aligned}$$

$$\begin{aligned}
& + x^{80} + x^{74} + x^{72} + x^{70} + x^{69} + x^{65} + x^{64} + x^{62} + x^{60} + x^{57} + x^{56} \\
& + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{41} + x^{37} + x^{36} + x^{30} \\
& + x^{28} + x^{26} + x^{25} + x^{21} + x^{20} + x^{10} + x^8 + x^6 + x^5 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{132} + x^{130} + x^{126} + x^{118} + x^{114} + x^{108} + x^{106} + x^{104} + x^{102} + x^{98} \\
&+ x^{90} + x^{88} + x^{86} + x^{82} + x^{80} + x^{78} + x^{76} + x^{72} + x^{66} + x^{60} + x^{58} \\
&+ x^{56} + x^{54} + x^{46} + x^{44} + x^{42} + x^{36}, \\
p_3(x) &= x^{124} + x^{122} + x^{120} + x^{100} + x^{98} + x^{92} + x^{86} + x^{82} + x^{76} + x^{70} + x^{56} \\
&+ x^{54} + x^{50} + x^{48} + x^{46} + x^{42} + x^{40} + x^{38} + x^{32} + x^{28} + x^{26} + x^{20} \\
&+ x^{18} + x^{12}, \\
p_6(x) &= x^{128} + x^{126} + x^{118} + x^{114} + x^{106} + x^{100} + x^{86} + x^{84} + x^{82} + x^{78} \\
&+ x^{74} + x^{68} + x^{66} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{40} + x^{38} \\
&+ x^{34} + x^{30} + x^{26} + x^{24} + x^{22} + x^{10} + x^8 + x^2 + 1, \\
p_9(x) &= x^{124} + x^{122} + x^{118} + x^{112} + x^{108} + x^{104} + x^{102} + x^{100} + x^{96} + x^{86} \\
&+ x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{64} + x^{62} + x^{60} + x^{50} + x^{46} \\
&+ x^{40} + x^{36} + x^{32} + x^{30} + x^{26} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^4, \\
p_{12}(x) &= x^{132} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{116} + x^{114} + x^{112} + x^{92} \\
&+ x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{60} + x^{58} + x^{56} + x^{44} + x^{42} + x^{40} \\
&+ x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} \\
&+ x^{111} + x^{108} + x^{104} + x^{103} + x^{101} + x^{100} + x^{97} + x^{95} + x^{94} + x^{91} \\
&+ x^{87} + x^{84} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{71} + x^{69} + x^{68} \\
&+ x^{63} + x^{62} + x^{56} + x^{54} + x^{51} + x^{50} + x^{49} + x^{46} + x^{45} + x^{44} + x^{43} \\
&+ x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{28} + x^{25} + x^{24}, \\
p_3(x) &= x^{110} + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} \\
&+ x^{95} + x^{92} + x^{88} + x^{87} + x^{85} + x^{84} + x^{81} + x^{79} + x^{78} + x^{75} + x^{71} \\
&+ x^{70} + x^{66} + x^{65} + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} \\
&+ x^{54} + x^{52} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{37} \\
&+ x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} + x^{21} \\
&+ x^{17} + x^{16}, \\
p_6(x) &= x^{122} + x^{120} + x^{118} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{98} \\
&+ x^{97} + x^{95} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{85} + x^{82} + x^{77} + x^{75}
\end{aligned}$$

$$\begin{aligned}
& + x^{73} + x^{72} + x^{67} + x^{64} + x^{62} + x^{60} + x^{59} + x^{58} + x^{56} + x^{55} + x^{53} \\
& + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} \\
& + x^{36} + x^{34} + x^{33} + x^{30} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{19} + x^{17} \\
& + x^{16} + x^{12} + x^{10} + x^9 + x^6 + x^5 + x + 1, \\
p_9(x) &= x^{110} + x^{108} + x^{105} + x^{104} + x^{78} + x^{76} + x^{73} + x^{72} + x^{46} + x^{44} + x^{41} \\
& + x^{40} + x^{30} + x^{28} + x^{25} + x^{24} + x^{14} + x^{12} + x^9 + x^8, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{105} + x^{102} + x^{101} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{81} + x^{80} + x^{78} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{65} \\
& + x^{64} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{48} + x^{42} + x^{40} \\
& + x^{37} + x^{36} + x^{26} + x^{24} + x^{21} + x^{20} + x^{14} + x^{12} + x^{10} + x^9 + x^6 + x^5 \\
& + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{128} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} \\
& + x^{103} + x^{102} + x^{99} + x^{98} + x^{97} + x^{96} + x^{93} + x^{92} + x^{91} + x^{88} + x^{87} \\
& + x^{85} + x^{83} + x^{80} + x^{77} + x^{76} + x^{73} + x^{71} + x^{68} + x^{67} + x^{64} + x^{61} \\
& + x^{58} + x^{57} + x^{55} + x^{54} + x^{50} + x^{47} + x^{45} + x^{43} + x^{41} + x^{39} + x^{37} \\
& + x^{34} + x^{33} + x^{32} + x^{31} + x^{30}, \\
p_3(x) &= x^{92} + x^{90} + x^{87} + x^{86} + x^{82} + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} \\
& + x^{70} + x^{69} + x^{68} + x^{67} + x^{64} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{54} \\
& + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} + x^{45} + x^{41} + x^{35} + x^{33} + x^{31} + x^{30} \\
& + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{104} + x^{96} + x^{94} + x^{90} + x^{88} + x^{82} + x^{80} + x^{78} + x^{76} + x^{74} + x^{70} \\
& + x^{66} + x^{58} + x^{56} + x^{48} + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{24} + x^{20} \\
& + x^{14} + x^{12}, \\
p_9(x) &= x^{116} + x^{114} + x^{112} + x^{111} + x^{108} + x^{107} + x^{103} + x^{102} + x^{84} + x^{82} \\
& + x^{80} + x^{79} + x^{76} + x^{75} + x^{71} + x^{70} + x^{52} + x^{50} + x^{48} + x^{47} + x^{44} \\
& + x^{43} + x^{39} + x^{38} + x^{36} + x^{34} + x^{32} + x^{31} + x^{28} + x^{27} + x^{23} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{15} + x^{12} + x^{11} + x^7 + x^6, \\
p_{12}(x) &= x^{128} + x^{124} + x^{116} + x^{104} + x^{92} + x^{84} + x^{72} + x^{60} + x^{52} + x^{48} + x^{44} \\
& + x^{40} + x^{36} + x^{28} + x^{24} + x^{20} + x^{16} + x^8 + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{136} + x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{115} + x^{114} + x^{112} + x^{111}$$

$$\begin{aligned}
& + x^{110} + x^{105} + x^{104} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} \\
& + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{80} + x^{79} + x^{76} + x^{75} + x^{74} + x^{73} \\
& + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{57} + x^{53} + x^{52} + x^{50} \\
& + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30}, \\
p_3(x) &= x^{100} + x^{98} + x^{95} + x^{94} + x^{90} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{79} \\
& + x^{78} + x^{77} + x^{76} + x^{72} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{58} \\
& + x^{56} + x^{55} + x^{54} + x^{51} + x^{49} + x^{48} + x^{47} + x^{44} + x^{42} + x^{41} + x^{40} \\
& + x^{37} + x^{35} + x^{34} + x^{33} + x^{30} + x^{27} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{112} + x^{104} + x^{102} + x^{98} + x^{92} + x^{90} + x^{84} + x^{82} + x^{74} + x^{72} + x^{60} \\
& + x^{56} + x^{52} + x^{50} + x^{48} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} \\
& + x^{28} + x^{26} + x^{24} + x^{22} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{124} + x^{122} + x^{120} + x^{119} + x^{116} + x^{115} + x^{111} + x^{110} + x^{108} + x^{106} \\
& + x^{103} + x^{102} + x^{92} + x^{90} + x^{88} + x^{87} + x^{84} + x^{83} + x^{79} + x^{78} + x^{76} \\
& + x^{74} + x^{71} + x^{70} + x^{60} + x^{58} + x^{56} + x^{55} + x^{52} + x^{51} + x^{47} + x^{46} \\
& + x^{40} + x^{38} + x^{36} + x^{35} + x^{31} + x^{30} + x^{24} + x^{22} + x^{20} + x^{19} + x^{15} \\
& + x^{14} + x^{12} + x^{10} + x^7 + x^6, \\
p_{12}(x) &= x^{136} + x^{132} + x^{124} + x^{120} + x^{104} + x^{96} + x^{92} + x^{88} + x^{72} + x^{64} + x^{60} \\
& + x^{52} + x^{44} + x^{32} + x^{28} + x^{24} + x^{20} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{105} + x^{103} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{91} + x^{88} + x^{85} + x^{82} + x^{81} + x^{78} + x^{75} + x^{73} + x^{72} \\
& + x^{68} + x^{62} + x^{58} + x^{56} + x^{55} + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} + x^{44} \\
& + x^{43} + x^{40} + x^{39} + x^{37} + x^{36}, \\
p_3(x) &= x^{110} + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{94} + x^{89} + x^{87} + x^{85} + x^{84} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{68} + x^{64} + x^{63} + x^{62} + x^{59} \\
& + x^{55} + x^{52} + x^{49} + x^{48} + x^{45} + x^{43} + x^{40} + x^{35} + x^{34} + x^{32} + x^{31} \\
& + x^{30} + x^{27} + x^{26} + x^{24} + x^{23} + x^{21} + x^{20}, \\
p_6(x) &= x^{122} + x^{120} + x^{118} + x^{117} + x^{116} + x^{113} + x^{111} + x^{110} + x^{109} + x^{105} \\
& + x^{104} + x^{102} + x^{100} + x^{95} + x^{92} + x^{89} + x^{87} + x^{86} + x^{85} + x^{81} + x^{80} \\
& + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{69} + x^{65} + x^{64} + x^{62} \\
& + x^{61} + x^{59} + x^{58} + x^{55} + x^{53} + x^{50} + x^{48} + x^{44} + x^{43} + x^{42} + x^{41} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27}
\end{aligned}$$

$$\begin{aligned}
& + x^{25} + x^{23} + x^{20} + x^{18} + x^{17} + x^{15} + x^{13} + x^{12} + x^{10} + x^8 + x^6 + x^5 \\
& + x + 1, \\
p_9(x) &= x^{110} + x^{108} + x^{105} + x^{104} + x^{78} + x^{76} + x^{73} + x^{72} + x^{46} + x^{44} + x^{41} \\
& + x^{40} + x^{30} + x^{28} + x^{25} + x^{24} + x^{14} + x^{12} + x^9 + x^8, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{105} + x^{102} + x^{101} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{81} + x^{80} + x^{78} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{65} \\
& + x^{64} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{48} + x^{42} + x^{40} \\
& + x^{37} + x^{36} + x^{26} + x^{24} + x^{21} + x^{20} + x^{14} + x^{12} + x^{10} + x^9 + x^6 + x^5 \\
& + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{108} + x^{104} + x^{103} + x^{101} + x^{100} + x^{97} + x^{95} + x^{94} + x^{91} \\
& + x^{87} + x^{84} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{71} + x^{69} + x^{68} \\
& + x^{63} + x^{62} + x^{56} + x^{54} + x^{51} + x^{50} + x^{49} + x^{46} + x^{45} + x^{44} + x^{43} \\
& + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{28} + x^{25} + x^{24}, \\
p_3(x) &= x^{110} + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{92} + x^{88} + x^{87} + x^{85} + x^{84} + x^{81} + x^{79} + x^{78} + x^{75} + x^{71} \\
& + x^{70} + x^{66} + x^{65} + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} \\
& + x^{54} + x^{52} + x^{50} + x^{49} + x^{46} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{37} \\
& + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} + x^{21} \\
& + x^{17} + x^{16}, \\
p_6(x) &= x^{122} + x^{120} + x^{118} + x^{117} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{98} \\
& + x^{97} + x^{95} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{85} + x^{82} + x^{77} + x^{75} \\
& + x^{73} + x^{72} + x^{67} + x^{64} + x^{62} + x^{60} + x^{59} + x^{58} + x^{56} + x^{55} + x^{53} \\
& + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} \\
& + x^{36} + x^{34} + x^{33} + x^{30} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{19} + x^{17} \\
& + x^{16} + x^{12} + x^{10} + x^9 + x^6 + x^5 + x + 1, \\
p_9(x) &= x^{110} + x^{108} + x^{105} + x^{104} + x^{78} + x^{76} + x^{73} + x^{72} + x^{46} + x^{44} + x^{41} \\
& + x^{40} + x^{30} + x^{28} + x^{25} + x^{24} + x^{14} + x^{12} + x^9 + x^8, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{105} + x^{102} + x^{101} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{81} + x^{80} + x^{78} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{65} \\
& + x^{64} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{48} + x^{42} + x^{40}
\end{aligned}$$

$$\begin{aligned}
& + x^{37} + x^{36} + x^{26} + x^{24} + x^{21} + x^{20} + x^{14} + x^{12} + x^{10} + x^9 + x^6 + x^5 \\
& + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{136} + x^{124} + x^{123} + x^{122} + x^{119} + x^{118} + x^{115} + x^{114} + x^{112} + x^{111} \\
&+ x^{110} + x^{105} + x^{104} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} \\
&+ x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{80} + x^{79} + x^{76} + x^{75} + x^{74} + x^{73} \\
&+ x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{57} + x^{53} + x^{52} + x^{50} \\
&+ x^{48} + x^{47} + x^{46} + x^{43} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30}, \\
p_3(x) &= x^{100} + x^{98} + x^{95} + x^{94} + x^{90} + x^{88} + x^{86} + x^{85} + x^{84} + x^{81} + x^{79} \\
&+ x^{78} + x^{77} + x^{76} + x^{72} + x^{67} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} + x^{58} \\
&+ x^{56} + x^{55} + x^{54} + x^{51} + x^{49} + x^{48} + x^{47} + x^{44} + x^{42} + x^{41} + x^{40} \\
&+ x^{37} + x^{35} + x^{34} + x^{33} + x^{30} + x^{27} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{112} + x^{104} + x^{102} + x^{98} + x^{92} + x^{90} + x^{84} + x^{82} + x^{74} + x^{72} + x^{60} \\
&+ x^{56} + x^{52} + x^{50} + x^{48} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} \\
&+ x^{28} + x^{26} + x^{24} + x^{22} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{124} + x^{122} + x^{120} + x^{119} + x^{116} + x^{115} + x^{111} + x^{110} + x^{108} + x^{106} \\
&+ x^{103} + x^{102} + x^{92} + x^{90} + x^{88} + x^{87} + x^{84} + x^{83} + x^{79} + x^{78} + x^{76} \\
&+ x^{74} + x^{71} + x^{70} + x^{60} + x^{58} + x^{56} + x^{55} + x^{52} + x^{51} + x^{47} + x^{46} \\
&+ x^{40} + x^{38} + x^{36} + x^{35} + x^{31} + x^{30} + x^{24} + x^{22} + x^{20} + x^{19} + x^{15} \\
&+ x^{14} + x^{12} + x^{10} + x^7 + x^6, \\
p_{12}(x) &= x^{136} + x^{132} + x^{124} + x^{120} + x^{104} + x^{96} + x^{92} + x^{88} + x^{72} + x^{64} + x^{60} \\
&+ x^{52} + x^{44} + x^{32} + x^{28} + x^{24} + x^{20} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{128} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} \\
&+ x^{103} + x^{102} + x^{99} + x^{98} + x^{97} + x^{96} + x^{93} + x^{92} + x^{91} + x^{88} + x^{87} \\
&+ x^{85} + x^{83} + x^{80} + x^{77} + x^{76} + x^{73} + x^{71} + x^{68} + x^{67} + x^{64} + x^{61} \\
&+ x^{58} + x^{57} + x^{55} + x^{54} + x^{50} + x^{47} + x^{45} + x^{43} + x^{41} + x^{39} + x^{37} \\
&+ x^{34} + x^{33} + x^{32} + x^{31} + x^{30}, \\
p_3(x) &= x^{92} + x^{90} + x^{87} + x^{86} + x^{82} + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} \\
&+ x^{70} + x^{69} + x^{68} + x^{67} + x^{64} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{54} \\
&+ x^{53} + x^{51} + x^{50} + x^{48} + x^{47} + x^{45} + x^{41} + x^{35} + x^{33} + x^{31} + x^{30} \\
&+ x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{104} + x^{96} + x^{94} + x^{90} + x^{88} + x^{82} + x^{80} + x^{78} + x^{76} + x^{74} + x^{70}
\end{aligned}$$

$$\begin{aligned}
& + x^{66} + x^{58} + x^{56} + x^{48} + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{24} + x^{20} \\
& + x^{14} + x^{12}, \\
p_9(x) &= x^{116} + x^{114} + x^{112} + x^{111} + x^{108} + x^{107} + x^{103} + x^{102} + x^{84} + x^{82} \\
& + x^{80} + x^{79} + x^{76} + x^{75} + x^{71} + x^{70} + x^{52} + x^{50} + x^{48} + x^{47} + x^{44} \\
& + x^{43} + x^{39} + x^{38} + x^{36} + x^{34} + x^{32} + x^{31} + x^{28} + x^{27} + x^{23} + x^{22} \\
& + x^{20} + x^{18} + x^{16} + x^{15} + x^{12} + x^{11} + x^7 + x^6, \\
p_{12}(x) &= x^{128} + x^{124} + x^{116} + x^{104} + x^{92} + x^{84} + x^{72} + x^{60} + x^{52} + x^{48} + x^{44} \\
& + x^{40} + x^{36} + x^{28} + x^{24} + x^{20} + x^{16} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{105} + x^{103} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{91} + x^{88} + x^{85} + x^{82} + x^{81} + x^{78} + x^{75} + x^{73} + x^{72} \\
& + x^{68} + x^{62} + x^{58} + x^{56} + x^{55} + x^{51} + x^{49} + x^{48} + x^{47} + x^{46} + x^{44} \\
& + x^{43} + x^{40} + x^{39} + x^{37} + x^{36}, \\
p_3(x) &= x^{110} + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{94} + x^{89} + x^{87} + x^{85} + x^{84} + x^{82} + x^{81} + x^{80} + x^{79} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{68} + x^{64} + x^{63} + x^{62} + x^{59} \\
& + x^{55} + x^{52} + x^{49} + x^{48} + x^{45} + x^{43} + x^{40} + x^{35} + x^{34} + x^{32} + x^{31} \\
& + x^{30} + x^{27} + x^{26} + x^{24} + x^{23} + x^{21} + x^{20}, \\
p_6(x) &= x^{122} + x^{120} + x^{118} + x^{117} + x^{116} + x^{113} + x^{111} + x^{110} + x^{109} + x^{105} \\
& + x^{104} + x^{102} + x^{100} + x^{95} + x^{92} + x^{89} + x^{87} + x^{86} + x^{85} + x^{81} + x^{80} \\
& + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{69} + x^{65} + x^{64} + x^{62} \\
& + x^{61} + x^{59} + x^{58} + x^{55} + x^{53} + x^{50} + x^{48} + x^{44} + x^{43} + x^{42} + x^{41} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} \\
& + x^{25} + x^{23} + x^{20} + x^{18} + x^{17} + x^{15} + x^{13} + x^{12} + x^{10} + x^8 + x^6 + x^5 \\
& + x + 1, \\
p_9(x) &= x^{110} + x^{108} + x^{105} + x^{104} + x^{78} + x^{76} + x^{73} + x^{72} + x^{46} + x^{44} + x^{41} \\
& + x^{40} + x^{30} + x^{28} + x^{25} + x^{24} + x^{14} + x^{12} + x^9 + x^8, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{105} + x^{102} + x^{101} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{81} + x^{80} + x^{78} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{65} \\
& + x^{64} + x^{62} + x^{60} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{48} + x^{42} + x^{40} \\
& + x^{37} + x^{36} + x^{26} + x^{24} + x^{21} + x^{20} + x^{14} + x^{12} + x^{10} + x^9 + x^6 + x^5 \\
& + x + 1,
\end{aligned}$$

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

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

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]	2022	[3527, 3528]	4044	[2428, 245]	6066	[1234, 3729]
1	[3, 4]	2023	[3529, 1775]	4045	[136, 5621]	6067	[4148, 7532]
2	[5, 6]	2024	[3530, 3531]	4046	[5658, 6079]	6068	[3469, 4812]
3	[7, 8]	2025	[304, 3532]	4047	[6080, 6081]	6069	[3882, 4358]
4	[9, 10]	2026	[3533, 3534]	4048	[6079, 5284]	6070	[6852, 7422]
5	[11, 12]	2027	[3535, 3536]	4049	[6082, 6083]	6071	[7592, 3253]
6	[13, 14]	2028	[3537, 3538]	4050	[6084, 6085]	6072	[7394, 7254]
7	[15, 16]	2029	[3539, 3540]	4051	[5875, 2558]	6073	[7211, 4133]
8	[17, 18]	2030	[3541, 3542]	4052	[1864, 2853]	6074	[7593, 4372]
9	[19, 20]	2031	[3543, 3544]	4053	[6086, 6087]	6075	[378, 7594]
10	[21, 22]	2032	[3545, 3546]	4054	[730, 6088]	6076	[451, 7595]
11	[23, 24]	2033	[3547, 3548]	4055	[6089, 6090]	6077	[4724, 7596]
12	[25, 26]	2034	[3549, 3550]	4056	[6091, 6092]	6078	[4736, 7372]
13	[27, 28]	2035	[3551, 3552]	4057	[6093, 6094]	6079	[22, 6964]
14	[29, 30]	2036	[3553, 3554]	4058	[6095, 769]	6080	[1704, 4829]
15	[31, 32]	2037	[3555, 3556]	4059	[5887, 6096]	6081	[1706, 7597]
16	[33, 34]	2038	[3557, 3558]	4060	[1813, 6097]	6082	[1612, 7317]
17	[35, 36]	2039	[346, 3559]	4061	[6098, 5248]	6083	[487, 7108]
18	[37, 38]	2040	[3560, 17]	4062	[6099, 6100]	6084	[7598, 7599]
19	[39, 40]	2041	[3211, 3561]	4063	[6101, 2623]	6085	[7482, 7600]
20	[41, 42]	2042	[3213, 3562]	4064	[6102, 6103]	6086	[7293, 4423]
21	[43, 44]	2043	[3563, 3456]	4065	[5649, 2970]	6087	[7195, 3989]
22	[45, 46]	2044	[3564, 3458]	4066	[5467, 6104]	6088	[7601, 7250]
23	[47, 48]	2045	[3565, 3454]	4067	[5208, 6105]	6089	[4946, 4621]
24	[49, 50]	2046	[3566, 3567]	4068	[5185, 5333]	6090	[7602, 7159]
25	[51, 52]	2047	[3568, 3569]	4069	[619, 6106]	6091	[4286, 4047]
26	[53, 54]	2048	[3570, 3171]	4070	[6107, 6108]	6092	[4317, 7001]
27	[55, 56]	2049	[3571, 3268]	4071	[6109, 6110]	6093	[7603, 3605]
28	[57, 58]	2050	[3572, 3326]	4072	[6111, 506]	6094	[3623, 1005]
29	[59, 60]	2051	[3573, 3574]	4073	[5297, 2974]	6095	[7604, 3680]
30	[61, 62]	2052	[3575, 3576]	4074	[5247, 6112]	6096	[4327, 7173]
31	[63, 64]	2053	[3577, 3578]	4075	[1944, 1994]	6097	[114, 1644]
32	[65, 66]	2054	[3513, 3579]	4076	[6113, 3074]	6098	[7527, 7184]
33	[67, 68]	2055	[3580, 3581]	4077	[6114, 6115]	6099	[1148, 7516]
34	[69, 70]	2056	[3582, 3583]	4078	[2778, 672]	6100	[1691, 7146]
35	[71, 72]	2057	[3584, 3585]	4079	[6116, 6117]	6101	[7605, 7444]
36	[73, 74]	2058	[3586, 1405]	4080	[6118, 2164]	6102	[4585, 1378]
37	[75, 76]	2059	[3587, 3588]	4081	[6119, 6120]	6103	[7606, 7607]
38	[77, 78]	2060	[3589, 428]	4082	[5832, 212]	6104	[1081, 6865]

39	[79, 80]	2061	[1302, 3590]	4083	[5577, 233]	6105	[1717, 1714]
40	[81, 82]	2062	[3591, 3592]	4084	[6121, 5330]	6106	[3898, 4207]
41	[83, 84]	2063	[3593, 3594]	4085	[2696, 6122]	6107	[4963, 3205]
42	[85, 86]	2064	[3595, 3521]	4086	[812, 2895]	6108	[7296, 7608]
43	[87, 88]	2065	[3596, 3597]	4087	[6123, 1811]	6109	[7609, 4054]
44	[89, 90]	2066	[3598, 3599]	4088	[6124, 2406]	6110	[7111, 3221]
45	[91, 92]	2067	[3600, 1439]	4089	[2322, 6125]	6111	[7412, 977]
46	[93, 94]	2068	[3601, 3602]	4090	[1842, 6126]	6112	[7582, 7610]
47	[95, 96]	2069	[3603, 3604]	4091	[2565, 6127]	6113	[4976, 7611]
48	[97, 98]	2070	[3605, 1092]	4092	[6128, 2075]	6114	[6981, 7347]
49	[99, 100]	2071	[3606, 3607]	4093	[6046, 5614]	6115	[7375, 4907]
50	[101, 102]	2072	[3608, 3609]	4094	[6053, 6129]	6116	[7262, 1056]
51	[103, 104]	2073	[3610, 3611]	4095	[5078, 3089]	6117	[7612, 4527]
52	[105, 106]	2074	[3612, 3613]	4096	[6130, 6131]	6118	[6942, 7613]
53	[107, 108]	2075	[3614, 3615]	4097	[6132, 6133]	6119	[4974, 3812]
54	[109, 110]	2076	[3616, 3617]	4098	[5187, 922]	6120	[7614, 4643]
55	[111, 112]	2077	[1095, 3618]	4099	[927, 5219]	6121	[4263, 7125]
56	[113, 114]	2078	[3619, 3620]	4100	[2512, 552]	6122	[7496, 7073]
57	[115, 116]	2079	[3621, 3622]	4101	[2855, 6134]	6123	[6993, 3381]
58	[117, 118]	2080	[3524, 3623]	4102	[2520, 3047]	6124	[7325, 4111]
59	[119, 120]	2081	[3624, 1743]	4103	[6135, 5851]	6125	[3453, 3566]
60	[121, 122]	2082	[1618, 77]	4104	[6136, 2105]	6126	[3544, 71]
61	[123, 124]	2083	[3625, 3626]	4105	[939, 6137]	6127	[4055, 7615]
62	[125, 126]	2084	[3627, 3628]	4106	[5748, 5220]	6128	[3455, 4908]
63	[127, 128]	2085	[1387, 3629]	4107	[5458, 6138]	6129	[1513, 1123]
64	[129, 130]	2086	[3630, 3631]	4108	[2838, 6139]	6130	[1187, 7163]
65	[131, 132]	2087	[3632, 3633]	4109	[6140, 2287]	6131	[7414, 7355]
66	[133, 134]	2088	[3634, 3635]	4110	[6141, 6142]	6132	[3602, 7616]
67	[135, 136]	2089	[3636, 1064]	4111	[6143, 632]	6133	[7339, 4978]
68	[137, 138]	2090	[3637, 3638]	4112	[5362, 5590]	6134	[7617, 1096]
69	[139, 135]	2091	[3639, 3640]	4113	[5408, 6144]	6135	[7126, 3951]
70	[140, 141]	2092	[3641, 377]	4114	[207, 6145]	6136	[7618, 3873]
71	[142, 143]	2093	[3642, 3643]	4115	[1795, 6146]	6137	[7549, 4437]
72	[144, 145]	2094	[3644, 3645]	4116	[6147, 6148]	6138	[6935, 4732]
73	[146, 147]	2095	[3646, 3647]	4117	[6149, 2991]	6139	[7619, 7022]
74	[148, 149]	2096	[3648, 3649]	4118	[5361, 5695]	6140	[4800, 7620]
75	[150, 151]	2097	[3650, 3651]	4119	[6150, 5985]	6141	[7096, 7621]
76	[152, 153]	2098	[3652, 3653]	4120	[6151, 2414]	6142	[1497, 4720]
77	[154, 155]	2099	[1110, 1166]	4121	[6152, 798]	6143	[4429, 7622]
78	[156, 157]	2100	[3654, 1170]	4122	[3132, 6153]	6144	[7623, 4370]
79	[158, 159]	2101	[3655, 1241]	4123	[2159, 6154]	6145	[7624, 4399]
80	[160, 161]	2102	[3656, 3280]	4124	[6155, 5730]	6146	[7625, 7626]
81	[162, 163]	2103	[3657, 3658]	4125	[6156, 6157]	6147	[6908, 7627]
82	[164, 165]	2104	[3152, 1613]	4126	[5578, 5769]	6148	[7628, 7119]

83	[166, 167]	2105	[3659, 1553]	4127	[6158, 2858]	6149	[7629, 7630]
84	[168, 169]	2106	[3660, 3315]	4128	[6159, 6160]	6150	[7368, 4558]
85	[170, 171]	2107	[3661, 3313]	4129	[5842, 6161]	6151	[7371, 7631]
86	[172, 173]	2108	[3472, 3662]	4130	[6162, 5354]	6152	[1711, 7338]
87	[174, 175]	2109	[3663, 3664]	4131	[2395, 2675]	6153	[7562, 3953]
88	[176, 177]	2110	[1762, 3665]	4132	[5793, 6163]	6154	[7632, 7633]
89	[178, 179]	2111	[3666, 3667]	4133	[6164, 190]	6155	[7634, 5005]
90	[180, 181]	2112	[3457, 3668]	4134	[6165, 6166]	6156	[4313, 7175]
91	[182, 183]	2113	[3669, 3670]	4135	[5833, 5034]	6157	[7451, 4099]
92	[184, 185]	2114	[3671, 1583]	4136	[6167, 2683]	6158	[7635, 7636]
93	[186, 187]	2115	[3672, 3673]	4137	[6168, 6169]	6159	[4721, 7545]
94	[188, 189]	2116	[3674, 3675]	4138	[6170, 6171]	6160	[4153, 7379]
95	[190, 191]	2117	[3676, 1266]	4139	[6172, 2806]	6161	[7099, 7637]
96	[192, 193]	2118	[3677, 3678]	4140	[6173, 6174]	6162	[4658, 7517]
97	[194, 195]	2119	[3679, 3636]	4141	[2017, 6044]	6163	[4208, 4669]
98	[196, 197]	2120	[3680, 3681]	4142	[2551, 6175]	6164	[7408, 4087]
99	[198, 199]	2121	[3682, 3683]	4143	[6131, 5418]	6165	[3823, 7638]
100	[200, 201]	2122	[3684, 3685]	4144	[2330, 5209]	6166	[6971, 1341]
101	[202, 203]	2123	[1772, 3686]	4145	[6176, 6177]	6167	[1298, 1421]
102	[204, 205]	2124	[3687, 3688]	4146	[2732, 2115]	6168	[7639, 4584]
103	[206, 207]	2125	[1662, 3478]	4147	[2706, 2037]	6169	[7640, 7390]
104	[208, 209]	2126	[1666, 3689]	4148	[683, 6178]	6170	[7641, 3766]
105	[210, 211]	2127	[3690, 3691]	4149	[209, 6179]	6171	[7642, 1036]
106	[212, 213]	2128	[3231, 3692]	4150	[786, 6180]	6172	[7643, 4958]
107	[214, 215]	2129	[3550, 3693]	4151	[6181, 5978]	6173	[7644, 7645]
108	[216, 217]	2130	[3694, 3695]	4152	[6182, 6183]	6174	[4997, 391]
109	[218, 219]	2131	[3696, 3697]	4153	[5166, 6184]	6175	[4307, 450]
110	[220, 221]	2132	[3698, 3699]	4154	[6185, 5459]	6176	[7646, 7647]
111	[222, 131]	2133	[3700, 3701]	4155	[1899, 5035]	6177	[4174, 4723]
112	[223, 224]	2134	[3702, 3703]	4156	[6186, 848]	6178	[7648, 7634]
113	[225, 226]	2135	[3704, 1409]	4157	[2702, 5396]	6179	[5006, 4511]
114	[227, 228]	2136	[3705, 3706]	4158	[541, 6187]	6180	[1499, 6874]
115	[229, 230]	2137	[324, 3466]	4159	[2022, 5107]	6181	[4412, 7649]
116	[231, 232]	2138	[3296, 3468]	4160	[167, 6188]	6182	[4679, 3663]
117	[233, 234]	2139	[3707, 3624]	4161	[5546, 5067]	6183	[3958, 6957]
118	[235, 236]	2140	[3708, 1596]	4162	[2624, 5872]	6184	[6980, 7650]
119	[237, 238]	2141	[3709, 1214]	4163	[2645, 6189]	6185	[7417, 3895]
120	[239, 240]	2142	[3710, 3711]	4164	[6190, 6191]	6186	[4076, 7651]
121	[241, 242]	2143	[3712, 3713]	4165	[6192, 6193]	6187	[1040, 7117]
122	[243, 244]	2144	[3714, 3715]	4166	[2375, 6194]	6188	[3938, 4805]
123	[245, 246]	2145	[3716, 3210]	4167	[2377, 2695]	6189	[7455, 7652]
124	[247, 248]	2146	[1746, 3717]	4168	[2909, 6195]	6190	[1155, 7236]
125	[249, 162]	2147	[3718, 3719]	4169	[2364, 5135]	6191	[7653, 7278]
126	[250, 251]	2148	[978, 3720]	4170	[6196, 5951]	6192	[7229, 7030]

127	[252, 253]	2149	[3721, 3722]	4171	[6197, 5702]	6193	[7276, 4495]
128	[254, 255]	2150	[3723, 3724]	4172	[6032, 5752]	6194	[4065, 7219]
129	[256, 257]	2151	[3725, 3726]	4173	[5977, 6198]	6195	[4760, 4851]
130	[258, 259]	2152	[1091, 3173]	4174	[1913, 6199]	6196	[7420, 109]
131	[260, 261]	2153	[3727, 3728]	4175	[5394, 5398]	6197	[7654, 4710]
132	[262, 263]	2154	[3729, 3730]	4176	[2288, 5979]	6198	[7655, 4192]
133	[264, 265]	2155	[3731, 3732]	4177	[2052, 2068]	6199	[3347, 1778]
134	[266, 267]	2156	[3423, 3733]	4178	[6200, 6201]	6200	[7656, 7036]
135	[268, 269]	2157	[3734, 3735]	4179	[3087, 2809]	6201	[3986, 7172]
136	[270, 271]	2158	[3283, 3736]	4180	[5743, 5069]	6202	[7585, 7483]
137	[272, 273]	2159	[3737, 3738]	4181	[6202, 6203]	6203	[7657, 3677]
138	[274, 275]	2160	[3739, 1773]	4182	[2219, 3094]	6204	[7615, 7542]
139	[276, 270]	2161	[3740, 3741]	4183	[6204, 6205]	6205	[6894, 7584]
140	[277, 278]	2162	[3742, 3743]	4184	[6206, 6207]	6206	[7354, 4611]
141	[279, 280]	2163	[3744, 3745]	4185	[6208, 6209]	6207	[7658, 4202]
142	[281, 282]	2164	[3745, 64]	4186	[6210, 6211]	6208	[3281, 7366]
143	[283, 284]	2165	[3746, 3747]	4187	[6212, 6213]	6209	[6988, 7401]
144	[285, 286]	2166	[3748, 3749]	4188	[5605, 6214]	6210	[7116, 999]
145	[287, 288]	2167	[3750, 3751]	4189	[6215, 2811]	6211	[1316, 4995]
146	[289, 290]	2168	[1482, 3752]	4190	[6022, 6216]	6212	[7620, 4755]
147	[291, 292]	2169	[3753, 3754]	4191	[6217, 6218]	6213	[7659, 1638]
148	[293, 294]	2170	[3755, 3756]	4192	[6219, 6220]	6214	[7322, 1677]
149	[295, 296]	2171	[3757, 3758]	4193	[5956, 6221]	6215	[3692, 4645]
150	[297, 298]	2172	[3759, 3601]	4194	[2135, 5280]	6216	[7660, 7006]
151	[299, 300]	2173	[3760, 3761]	4195	[6222, 5676]	6217	[7191, 7661]
152	[301, 302]	2174	[3762, 3763]	4196	[2668, 6223]	6218	[3695, 7612]
153	[303, 304]	2175	[3764, 3765]	4197	[5613, 5954]	6219	[1345, 6901]
154	[305, 306]	2176	[3766, 3767]	4198	[681, 5665]	6220	[7301, 3227]
155	[307, 308]	2177	[3768, 3769]	4199	[5244, 6224]	6221	[4990, 4916]
156	[309, 310]	2178	[3620, 3770]	4200	[5152, 6225]	6222	[4999, 3375]
157	[311, 312]	2179	[3771, 3772]	4201	[6226, 6227]	6223	[7423, 7662]
158	[313, 314]	2180	[3773, 3774]	4202	[6228, 6229]	6224	[1667, 7655]
159	[315, 316]	2181	[3775, 3186]	4203	[5309, 6230]	6225	[3552, 349]
160	[317, 318]	2182	[3776, 3777]	4204	[6231, 6232]	6226	[4715, 4578]
161	[319, 320]	2183	[3778, 496]	4205	[5724, 5433]	6227	[7663, 7664]
162	[321, 322]	2184	[3779, 3780]	4206	[5747, 6233]	6228	[7484, 7665]
163	[323, 324]	2185	[3781, 3782]	4207	[6234, 6235]	6229	[4440, 7666]
164	[325, 326]	2186	[3783, 3784]	4208	[5595, 1919]	6230	[7667, 7668]
165	[327, 328]	2187	[3785, 3786]	4209	[2116, 6236]	6231	[7477, 7194]
166	[329, 330]	2188	[3787, 3788]	4210	[6237, 5920]	6232	[4367, 3523]
167	[331, 332]	2189	[3789, 3790]	4211	[6238, 6239]	6233	[6931, 16]
168	[333, 334]	2190	[3791, 3792]	4212	[6240, 6241]	6234	[421, 7669]
169	[335, 336]	2191	[3793, 3794]	4213	[6242, 6243]	6235	[4002, 4295]
170	[337, 338]	2192	[1510, 3795]	4214	[5311, 5543]	6236	[3673, 1449]

171	[339, 340]	2193	[76, 3796]	4215	[6244, 6245]	6237	[4537, 7670]
172	[341, 342]	2194	[3797, 3798]	4216	[6246, 1902]	6238	[286, 3251]
173	[343, 344]	2195	[3799, 3800]	4217	[6247, 3101]	6239	[3877, 1764]
174	[345, 346]	2196	[3801, 3802]	4218	[6248, 5784]	6240	[7671, 3451]
175	[347, 348]	2197	[3803, 3804]	4219	[6249, 5980]	6241	[4586, 3639]
176	[349, 350]	2198	[3805, 3806]	4220	[6250, 1849]	6242	[4433, 7672]
177	[351, 352]	2199	[3807, 3808]	4221	[5275, 2339]	6243	[7673, 7499]
178	[353, 354]	2200	[1389, 3809]	4222	[6251, 6252]	6244	[7608, 7674]
179	[355, 356]	2201	[3810, 3811]	4223	[232, 6253]	6245	[7675, 1384]
180	[357, 358]	2202	[3812, 3813]	4224	[6254, 5032]	6246	[7676, 3332]
181	[359, 360]	2203	[3732, 3814]	4225	[5100, 5866]	6247	[4184, 7110]
182	[361, 362]	2204	[3815, 3816]	4226	[5816, 6255]	6248	[3769, 7453]
183	[363, 364]	2205	[1584, 3817]	4227	[1983, 6256]	6249	[3998, 7677]
184	[365, 366]	2206	[3818, 3365]	4228	[6255, 500]	6250	[1118, 7589]
185	[367, 368]	2207	[3819, 1418]	4229	[6257, 6258]	6251	[7529, 4759]
186	[369, 370]	2208	[3820, 1396]	4230	[6259, 5068]	6252	[3780, 4761]
187	[371, 372]	2209	[3649, 3821]	4231	[6260, 6206]	6253	[459, 7678]
188	[373, 374]	2210	[3822, 3823]	4232	[2496, 706]	6254	[7122, 1013]
189	[375, 376]	2211	[3824, 434]	4233	[6261, 6262]	6255	[7679, 965]
190	[377, 378]	2212	[3825, 3826]	4234	[5910, 5647]	6256	[4746, 4252]
191	[379, 380]	2213	[3827, 3828]	4235	[2638, 5416]	6257	[3691, 1218]
192	[381, 382]	2214	[3816, 3829]	4236	[2973, 6263]	6258	[410, 1386]
193	[383, 384]	2215	[3576, 1011]	4237	[6264, 6265]	6259	[7144, 3460]
194	[385, 386]	2216	[3830, 3614]	4238	[6266, 6267]	6260	[4574, 7658]
195	[387, 388]	2217	[3831, 3832]	4239	[6268, 814]	6261	[3414, 3525]
196	[389, 390]	2218	[3833, 3834]	4240	[6269, 6270]	6262	[4633, 3778]
197	[391, 392]	2219	[3835, 3836]	4241	[2873, 6271]	6263	[3594, 6888]
198	[393, 394]	2220	[3151, 3448]	4242	[2407, 6272]	6264	[3444, 4676]
199	[395, 396]	2221	[3837, 1109]	4243	[794, 712]	6265	[4556, 7421]
200	[397, 398]	2222	[3540, 3838]	4244	[6273, 6274]	6266	[7077, 3373]
201	[399, 400]	2223	[3839, 1514]	4245	[6275, 3133]	6267	[3292, 7680]
202	[401, 402]	2224	[3840, 3841]	4246	[6276, 6277]	6268	[7330, 1547]
203	[403, 404]	2225	[3842, 3610]	4247	[6278, 2370]	6269	[7681, 7682]
204	[405, 406]	2226	[3843, 3844]	4248	[6015, 2888]	6270	[7683, 7456]
205	[407, 408]	2227	[3845, 3846]	4249	[6279, 2316]	6271	[6938, 4049]
206	[409, 410]	2228	[3847, 3848]	4250	[5916, 6280]	6272	[4110, 3577]
207	[411, 412]	2229	[3849, 3850]	4251	[5029, 6281]	6273	[4362, 7574]
208	[413, 414]	2230	[3767, 3851]	4252	[5932, 616]	6274	[7669, 4931]
209	[415, 416]	2231	[3852, 3853]	4253	[6282, 520]	6275	[3428, 7684]
210	[90, 417]	2232	[3854, 3855]	4254	[815, 6283]	6276	[7087, 7685]
211	[418, 419]	2233	[3856, 3857]	4255	[5466, 6284]	6277	[7252, 4989]
212	[420, 421]	2234	[3858, 3859]	4256	[6074, 2425]	6278	[7686, 7207]
213	[422, 423]	2235	[3860, 3861]	4257	[6285, 6247]	6279	[4497, 1220]
214	[424, 425]	2236	[3862, 3863]	4258	[6286, 926]	6280	[7230, 7331]

215	[426, 427]	2237	[3864, 3865]	4259	[6287, 5019]	6281	[4150, 7176]
216	[428, 429]	2238	[3866, 1021]	4260	[6288, 6289]	6282	[7687, 7618]
217	[430, 431]	2239	[3867, 3868]	4261	[6290, 3059]	6283	[4967, 4815]
218	[432, 433]	2240	[1246, 3869]	4262	[6291, 6128]	6284	[4213, 7051]
219	[434, 435]	2241	[3870, 3871]	4263	[6292, 6293]	6285	[4182, 7625]
220	[436, 437]	2242	[3872, 1712]	4264	[48, 6294]	6286	[7344, 4619]
221	[438, 439]	2243	[3873, 3874]	4265	[6295, 6296]	6287	[6974, 3539]
222	[440, 441]	2244	[3875, 3876]	4266	[5199, 6297]	6288	[7543, 7397]
223	[442, 443]	2245	[1042, 3877]	4267	[6142, 2870]	6289	[7688, 3225]
224	[444, 445]	2246	[469, 3878]	4268	[5130, 1900]	6290	[3406, 4945]
225	[446, 447]	2247	[3879, 331]	4269	[6298, 2284]	6291	[6857, 7427]
226	[448, 449]	2248	[3880, 1606]	4270	[6299, 2803]	6292	[3790, 7689]
227	[450, 451]	2249	[3881, 3882]	4271	[6300, 3096]	6293	[4685, 3503]
228	[452, 453]	2250	[3883, 3884]	4272	[6301, 6302]	6294	[96, 7690]
229	[454, 455]	2251	[3885, 1047]	4273	[6303, 6173]	6295	[7691, 4809]
230	[456, 457]	2252	[3886, 3781]	4274	[2813, 5779]	6296	[3400, 6926]
231	[458, 459]	2253	[3340, 3887]	4275	[6157, 5390]	6297	[3302, 1645]
232	[460, 461]	2254	[3888, 3889]	4276	[5965, 6135]	6298	[4479, 7114]
233	[462, 463]	2255	[3640, 3890]	4277	[720, 2495]	6299	[7383, 7174]
234	[464, 465]	2256	[3891, 3396]	4278	[6304, 6305]	6300	[7692, 3661]
235	[466, 467]	2257	[3892, 3744]	4279	[6306, 589]	6301	[6939, 7693]
236	[468, 469]	2258	[3893, 3894]	4280	[6199, 6307]	6302	[7611, 7548]
237	[100, 470]	2259	[3895, 3896]	4281	[5593, 6308]	6303	[7600, 4260]
238	[471, 472]	2260	[3897, 3898]	4282	[6309, 6310]	6304	[7694, 3750]
239	[473, 474]	2261	[3804, 3899]	4283	[6311, 5717]	6305	[3175, 7657]
240	[475, 476]	2262	[3900, 1780]	4284	[2242, 5548]	6306	[7312, 3833]
241	[477, 478]	2263	[1575, 3564]	4285	[908, 6080]	6307	[7695, 4462]
242	[479, 480]	2264	[3901, 3902]	4286	[2790, 6312]	6308	[7267, 7228]
243	[481, 482]	2265	[1538, 3903]	4287	[3124, 5470]	6309	[7696, 3714]
244	[483, 484]	2266	[3904, 3905]	4288	[6313, 6314]	6310	[3635, 4842]
245	[461, 485]	2267	[3906, 3907]	4289	[6315, 698]	6311	[7165, 7697]
246	[486, 487]	2268	[3908, 3909]	4290	[6243, 2012]	6312	[4128, 6990]
247	[488, 489]	2269	[3910, 3191]	4291	[6316, 5266]	6313	[7208, 3203]
248	[490, 491]	2270	[3808, 3911]	4292	[2980, 2775]	6314	[7227, 7222]
249	[492, 493]	2271	[3912, 3913]	4293	[5305, 6317]	6315	[7698, 1470]
250	[494, 495]	2272	[3914, 3915]	4294	[6180, 1789]	6316	[3167, 262]
251	[496, 497]	2273	[3916, 3880]	4295	[6318, 5615]	6317	[382, 7003]
252	[498, 499]	2274	[3917, 3918]	4296	[5499, 2594]	6318	[4994, 7334]
253	[500, 501]	2275	[3814, 3919]	4297	[5510, 6319]	6319	[7699, 4988]
254	[502, 503]	2276	[3920, 3921]	4298	[6077, 6320]	6320	[7581, 279]
255	[504, 505]	2277	[3922, 295]	4299	[2718, 6321]	6321	[4533, 7643]
256	[506, 507]	2278	[3923, 3924]	4300	[6322, 6323]	6322	[1101, 7700]
257	[508, 509]	2279	[3925, 3926]	4301	[910, 6324]	6323	[7701, 3940]
258	[510, 511]	2280	[3927, 1019]	4302	[2915, 6325]	6324	[4677, 7587]

259	[512, 513]	2281	[3928, 3565]	4303	[6144, 5800]	6325	[4083, 7702]
260	[514, 515]	2282	[3929, 3930]	4304	[5989, 5188]	6326	[4882, 7508]
261	[516, 517]	2283	[3931, 3932]	4305	[5749, 2955]	6327	[3968, 7318]
262	[518, 519]	2284	[1472, 3933]	4306	[945, 870]	6328	[7101, 6855]
263	[520, 521]	2285	[3934, 3892]	4307	[5774, 2216]	6329	[7102, 7703]
264	[522, 523]	2286	[3935, 3936]	4308	[6326, 6327]	6330	[4520, 7704]
265	[524, 525]	2287	[3937, 3938]	4309	[6328, 6329]	6331	[3494, 7433]
266	[526, 527]	2288	[3939, 1413]	4310	[2223, 5027]	6332	[3337, 1129]
267	[528, 529]	2289	[3940, 3941]	4311	[3092, 2312]	6333	[84, 4239]
268	[530, 531]	2290	[3942, 466]	4312	[923, 6330]	6334	[6985, 3603]
269	[532, 533]	2291	[1140, 1017]	4313	[2003, 6331]	6335	[7511, 7635]
270	[534, 535]	2292	[3943, 1043]	4314	[6332, 587]	6336	[3907, 7681]
271	[536, 537]	2293	[3944, 1222]	4315	[6333, 2499]	6337	[7666, 4625]
272	[538, 539]	2294	[3857, 3945]	4316	[6334, 2306]	6338	[3441, 7705]
273	[540, 541]	2295	[3946, 3947]	4317	[6335, 6336]	6339	[3613, 7307]
274	[542, 543]	2296	[3948, 990]	4318	[6337, 2661]	6340	[7112, 7177]
275	[544, 545]	2297	[3949, 3950]	4319	[6338, 582]	6341	[7706, 3852]
276	[546, 536]	2298	[3951, 3952]	4320	[6339, 6340]	6342	[4559, 7010]
277	[547, 548]	2299	[3526, 268]	4321	[6341, 2355]	6343	[4900, 7305]
278	[549, 550]	2300	[3953, 3954]	4322	[3126, 2002]	6344	[7418, 7707]
279	[165, 551]	2301	[3955, 3956]	4323	[6342, 5374]	6345	[7031, 7708]
280	[552, 553]	2302	[3378, 415]	4324	[5607, 6343]	6346	[7094, 454]
281	[554, 555]	2303	[3957, 3958]	4325	[6344, 5513]	6347	[3670, 4353]
282	[556, 557]	2304	[3959, 3960]	4326	[2699, 6033]	6348	[1312, 7411]
283	[558, 559]	2305	[3961, 3962]	4327	[5994, 6259]	6349	[7544, 7362]
284	[560, 561]	2306	[3963, 3964]	4328	[6345, 6346]	6350	[4925, 4147]
285	[562, 563]	2307	[476, 3934]	4329	[5515, 1937]	6351	[7709, 7710]
286	[564, 518]	2308	[3965, 3966]	4330	[742, 6347]	6352	[7711, 7350]
287	[565, 566]	2309	[3967, 3968]	4331	[5221, 5126]	6353	[3941, 4037]
288	[138, 567]	2310	[3969, 3970]	4332	[6178, 6348]	6354	[3178, 4637]
289	[568, 569]	2311	[3869, 3376]	4333	[6349, 5937]	6355	[4547, 7598]
290	[570, 571]	2312	[1434, 3971]	4334	[929, 5946]	6356	[3758, 6943]
291	[572, 573]	2313	[3972, 3973]	4335	[6350, 6351]	6357	[4704, 1437]
292	[574, 575]	2314	[3974, 3975]	4336	[5010, 1840]	6358	[7569, 4821]
293	[576, 577]	2315	[3976, 3977]	4337	[6352, 5645]	6359	[3954, 3723]
294	[578, 579]	2316	[3978, 3979]	4338	[6353, 2894]	6360	[465, 1602]
295	[580, 581]	2317	[3980, 3981]	4339	[605, 530]	6361	[4808, 7712]
296	[582, 583]	2318	[3982, 3983]	4340	[2085, 6350]	6362	[4689, 7609]
297	[584, 585]	2319	[3675, 3179]	4341	[5810, 6354]	6363	[7038, 3471]
298	[34, 586]	2320	[3984, 3985]	4342	[6355, 6356]	6364	[987, 4557]
299	[587, 588]	2321	[3838, 3986]	4343	[5711, 5073]	6365	[989, 3992]
300	[589, 590]	2322	[3987, 3988]	4344	[2252, 6357]	6366	[4205, 7713]
301	[591, 592]	2323	[3989, 3862]	4345	[6010, 6358]	6367	[7505, 4033]
302	[593, 247]	2324	[3990, 3991]	4346	[5984, 6359]	6368	[7556, 4818]

303	[594, 595]	2325	[3992, 1530]	4347	[2096, 8]	6369	[7714, 3608]
304	[596, 597]	2326	[3993, 3994]	4348	[213, 2856]	6370	[3474, 7593]
305	[598, 599]	2327	[18, 3995]	4349	[1938, 5407]	6371	[3970, 4828]
306	[600, 601]	2328	[3996, 1117]	4350	[6360, 6361]	6372	[7715, 272]
307	[602, 603]	2329	[1074, 3997]	4351	[6362, 6363]	6373	[447, 1127]
308	[604, 605]	2330	[1279, 3998]	4352	[6364, 6365]	6374	[7716, 468]
309	[606, 607]	2331	[3999, 4000]	4353	[6366, 5598]	6375	[7495, 7717]
310	[608, 609]	2332	[4001, 4002]	4354	[5882, 6367]	6376	[6910, 1716]
311	[610, 611]	2333	[4003, 4004]	4355	[6368, 6369]	6377	[4748, 1718]
312	[612, 613]	2334	[1501, 1776]	4356	[6370, 6309]	6378	[7448, 3266]
313	[614, 615]	2335	[4005, 1274]	4357	[6371, 6372]	6379	[6923, 7644]
314	[616, 617]	2336	[4006, 4007]	4358	[2534, 6373]	6380	[4203, 7311]
315	[618, 619]	2337	[4008, 4009]	4359	[5289, 6374]	6381	[4347, 7718]
316	[620, 621]	2338	[4010, 4011]	4360	[5439, 6375]	6382	[3574, 7601]
317	[622, 222]	2339	[4012, 4013]	4361	[5117, 5295]	6383	[4309, 7196]
318	[623, 624]	2340	[4014, 4015]	4362	[6376, 6377]	6384	[4253, 7047]
319	[625, 626]	2341	[3964, 4016]	4363	[5507, 6073]	6385	[3145, 1094]
320	[627, 628]	2342	[4017, 4018]	4364	[5840, 6378]	6386	[3915, 6914]
321	[226, 629]	2343	[4019, 4020]	4365	[2967, 6379]	6387	[7093, 1366]
322	[630, 631]	2344	[4021, 4022]	4366	[6380, 6366]	6388	[4914, 1520]
323	[632, 633]	2345	[4023, 4024]	4367	[2818, 6119]	6389	[6904, 1600]
324	[634, 635]	2346	[4025, 3282]	4368	[2581, 6381]	6390	[7719, 3993]
325	[636, 637]	2347	[4026, 4027]	4369	[2893, 2318]	6391	[1505, 7266]
326	[638, 164]	2348	[4028, 3990]	4370	[6382, 2579]	6392	[4771, 7720]
327	[639, 640]	2349	[419, 4029]	4371	[6383, 6384]	6393	[7289, 7721]
328	[641, 642]	2350	[4030, 379]	4372	[6385, 6386]	6394	[3368, 4906]
329	[643, 644]	2351	[3756, 1670]	4373	[205, 6143]	6395	[4620, 7722]
330	[645, 646]	2352	[4031, 4032]	4374	[1818, 1790]	6396	[4193, 7376]
331	[647, 648]	2353	[4033, 4034]	4375	[5038, 6072]	6397	[7723, 7385]
332	[649, 650]	2354	[4035, 1549]	4376	[2814, 6387]	6398	[3410, 7724]
333	[651, 652]	2355	[3688, 4036]	4377	[6365, 6388]	6399	[4542, 1453]
334	[653, 654]	2356	[4037, 4038]	4378	[2850, 2791]	6400	[4490, 7085]
335	[655, 656]	2357	[1355, 4039]	4379	[6389, 5936]	6401	[7724, 6899]
336	[657, 658]	2358	[4040, 4041]	4380	[2157, 5939]	6402	[3235, 7377]
337	[659, 660]	2359	[3796, 4042]	4381	[6390, 6391]	6403	[3438, 7725]
338	[661, 243]	2360	[3798, 4043]	4382	[6392, 6393]	6404	[7280, 4874]
339	[662, 663]	2361	[1713, 4044]	4383	[6394, 6395]	6405	[6895, 4517]
340	[664, 665]	2362	[4045, 4046]	4384	[6396, 6397]	6406	[1404, 452]
341	[666, 667]	2363	[4047, 4048]	4385	[6398, 6399]	6407	[4656, 1683]
342	[668, 669]	2364	[4049, 4050]	4386	[5794, 6400]	6408	[3216, 7617]
343	[670, 671]	2365	[4051, 3432]	4387	[6401, 544]	6409	[4300, 7726]
344	[672, 673]	2366	[4052, 3708]	4388	[5952, 948]	6410	[7476, 4896]
345	[674, 675]	2367	[3508, 4053]	4389	[5344, 6210]	6411	[1008, 1498]
346	[676, 677]	2368	[4054, 4055]	4390	[5848, 2390]	6412	[7636, 7210]

347	[678, 679]	2369	[4056, 4057]	4391	[5405, 6402]	6413	[3747, 7082]
348	[680, 681]	2370	[4058, 4059]	4392	[6403, 5853]	6414	[1004, 7269]
349	[682, 683]	2371	[3736, 4060]	4393	[5588, 6404]	6415	[7597, 4482]
350	[684, 685]	2372	[4061, 4062]	4394	[5388, 5834]	6416	[7727, 4428]
351	[686, 687]	2373	[4063, 4064]	4395	[6405, 6406]	6417	[1651, 7654]
352	[688, 689]	2374	[3633, 4065]	4396	[759, 1982]	6418	[7728, 7729]
353	[690, 691]	2375	[4066, 3746]	4397	[2948, 6136]	6419	[7730, 7466]
354	[692, 693]	2376	[4067, 4068]	4398	[2824, 6407]	6420	[1779, 1646]
355	[694, 695]	2377	[4069, 4070]	4399	[5015, 6408]	6421	[7731, 3937]
356	[696, 697]	2378	[4071, 4072]	4400	[5986, 1972]	6422	[3590, 7083]
357	[698, 699]	2379	[4073, 4074]	4401	[2800, 6409]	6423	[7570, 4478]
358	[700, 701]	2380	[4075, 4076]	4402	[6410, 2867]	6424	[976, 6891]
359	[702, 703]	2381	[4077, 1307]	4403	[6411, 1858]	6425	[3538, 1557]
360	[704, 705]	2382	[4078, 4079]	4404	[2926, 5293]	6426	[3777, 6977]
361	[706, 707]	2383	[4080, 4081]	4405	[2958, 6412]	6427	[3947, 991]
362	[708, 709]	2384	[4082, 1423]	4406	[6413, 783]	6428	[7630, 4837]
363	[710, 711]	2385	[3558, 4083]	4407	[6357, 2644]	6429	[3792, 1679]
364	[712, 713]	2386	[4084, 3371]	4408	[6414, 2070]	6430	[6952, 4888]
365	[714, 715]	2387	[4085, 73]	4409	[2088, 2374]	6431	[4201, 4326]
366	[505, 716]	2388	[4029, 4086]	4410	[6415, 6416]	6432	[1588, 7033]
367	[717, 718]	2389	[4087, 4088]	4411	[5094, 5133]	6433	[6996, 1627]
368	[719, 720]	2390	[4089, 1705]	4412	[6417, 6418]	6434	[1225, 7732]
369	[721, 722]	2391	[4090, 1560]	4413	[10, 51]	6435	[7700, 7733]
370	[723, 724]	2392	[1422, 4091]	4414	[6419, 5121]	6436	[6906, 7628]
371	[725, 668]	2393	[3597, 3262]	4415	[2755, 6420]	6437	[4646, 7271]
372	[726, 727]	2394	[4092, 4093]	4416	[5258, 5477]	6438	[6945, 7734]
373	[728, 614]	2395	[1334, 4094]	4417	[6421, 3030]	6439	[7182, 4441]
374	[729, 730]	2396	[1048, 4095]	4418	[2302, 6422]	6440	[7735, 4768]
375	[731, 732]	2397	[104, 1297]	4419	[1911, 6423]	6441	[7472, 3318]
376	[733, 734]	2398	[3788, 4096]	4420	[6412, 2476]	6442	[7501, 4406]
377	[735, 736]	2399	[4097, 4098]	4421	[827, 2005]	6443	[7387, 7048]
378	[737, 738]	2400	[4099, 4100]	4422	[6424, 5071]	6444	[998, 1344]
379	[739, 740]	2401	[4101, 4102]	4423	[6425, 5628]	6445	[1614, 3288]
380	[741, 742]	2402	[4103, 4104]	4424	[5481, 6426]	6446	[7736, 7246]
381	[743, 728]	2403	[4105, 4106]	4425	[2296, 6427]	6447	[7518, 1257]
382	[744, 745]	2404	[4107, 4108]	4426	[845, 558]	6448	[7200, 3484]
383	[746, 747]	2405	[3681, 4109]	4427	[6428, 574]	6449	[3772, 7554]
384	[748, 749]	2406	[1676, 4110]	4428	[6429, 5518]	6450	[7718, 3789]
385	[750, 751]	2407	[4111, 3910]	4429	[727, 6430]	6451	[1217, 4283]
386	[752, 753]	2408	[4112, 4113]	4430	[6431, 6432]	6452	[7737, 7081]
387	[754, 755]	2409	[3449, 4114]	4431	[6351, 6433]	6453	[1635, 3573]
388	[756, 757]	2410	[4115, 4116]	4432	[6125, 6434]	6454	[1077, 7052]
389	[758, 759]	2411	[4117, 1084]	4433	[6435, 5900]	6455	[4269, 3762]
390	[760, 761]	2412	[1238, 3510]	4434	[5091, 6376]	6456	[7725, 1154]

391	[579, 762]	2413	[4118, 1212]	4435	[6436, 6147]	6457	[7738, 7268]
392	[763, 764]	2414	[4119, 4120]	4436	[2125, 6437]	6458	[7684, 7142]
393	[765, 766]	2415	[4121, 3306]	4437	[6270, 6438]	6459	[3932, 7739]
394	[767, 768]	2416	[1065, 4122]	4438	[2472, 5051]	6460	[6933, 7534]
395	[769, 659]	2417	[4123, 4124]	4439	[5402, 6439]	6461	[7428, 7646]
396	[770, 771]	2418	[4125, 4126]	4440	[6160, 6440]	6462	[7740, 7297]
397	[772, 591]	2419	[4127, 4128]	4441	[5843, 5944]	6463	[4784, 1574]
398	[773, 774]	2420	[1230, 4129]	4442	[6441, 6442]	6464	[7434, 7675]
399	[775, 776]	2421	[3724, 4130]	4443	[6443, 787]	6465	[1487, 7741]
400	[777, 778]	2422	[3853, 4131]	4444	[519, 6444]	6466	[4773, 6958]
401	[779, 780]	2423	[3350, 4132]	4445	[6445, 6446]	6467	[3408, 4901]
402	[781, 782]	2424	[16, 1479]	4446	[6189, 6447]	6468	[4938, 7742]
403	[783, 784]	2425	[4133, 4134]	4447	[6448, 5764]	6469	[4170, 7577]
404	[785, 786]	2426	[78, 4135]	4448	[6449, 6355]	6470	[4595, 3963]
405	[787, 788]	2427	[4136, 4137]	4449	[5878, 2892]	6471	[7743, 1394]
406	[789, 790]	2428	[4138, 3479]	4450	[6387, 5589]	6472	[7744, 7560]
407	[791, 792]	2429	[4139, 4140]	4451	[6450, 6204]	6473	[1402, 7745]
408	[793, 794]	2430	[4141, 4142]	4452	[6451, 6452]	6474	[1641, 7294]
409	[771, 795]	2431	[4143, 1629]	4453	[130, 6453]	6475	[3699, 4551]
410	[796, 797]	2432	[1275, 4144]	4454	[6027, 6454]	6476	[7746, 7731]
411	[798, 799]	2433	[4145, 4146]	4455	[6455, 6456]	6477	[4531, 7747]
412	[800, 801]	2434	[4147, 4148]	4456	[6457, 5393]	6478	[7537, 3916]
413	[722, 802]	2435	[4149, 4150]	4457	[6458, 5714]	6479	[7680, 4716]
414	[803, 804]	2436	[4151, 4152]	4458	[6263, 5391]	6480	[7748, 7023]
415	[805, 560]	2437	[1462, 1160]	4459	[6459, 5556]	6481	[4500, 983]
416	[806, 807]	2438	[3248, 4153]	4460	[5566, 6460]	6482	[4614, 254]
417	[697, 808]	2439	[982, 3215]	4461	[6305, 6353]	6483	[4487, 7749]
418	[809, 810]	2440	[4154, 4155]	4462	[2710, 5222]	6484	[3208, 6920]
419	[811, 812]	2441	[4156, 4157]	4463	[6461, 6462]	6485	[3308, 7605]
420	[169, 813]	2442	[1089, 4158]	4464	[6463, 5771]	6486	[7750, 7440]
421	[814, 815]	2443	[4159, 4160]	4465	[6464, 6244]	6487	[1103, 1448]
422	[816, 817]	2444	[4161, 4162]	4466	[5517, 6465]	6488	[7734, 7300]
423	[818, 819]	2445	[4163, 4164]	4467	[2426, 3040]	6489	[1228, 7751]
424	[820, 821]	2446	[4165, 1632]	4468	[5180, 6341]	6490	[4070, 1350]
425	[822, 823]	2447	[4166, 4167]	4469	[2217, 6458]	6491	[4, 1335]
426	[824, 825]	2448	[4168, 4169]	4470	[2506, 6466]	6492	[7579, 4454]
427	[826, 827]	2449	[3693, 4170]	4471	[543, 5084]	6493	[7752, 4492]
428	[828, 829]	2450	[4171, 4172]	4472	[1951, 5823]	6494	[7019, 3801]
429	[830, 831]	2451	[4173, 4174]	4473	[6467, 6398]	6495	[4850, 7753]
430	[832, 833]	2452	[4175, 260]	4474	[6161, 6468]	6496	[3531, 4965]
431	[834, 835]	2453	[3170, 4176]	4475	[6469, 6470]	6497	[412, 3259]
432	[836, 837]	2454	[4177, 4061]	4476	[6471, 5995]	6498	[1680, 7447]
433	[838, 839]	2455	[4178, 4179]	4477	[2422, 723]	6499	[4400, 6922]
434	[840, 841]	2456	[4180, 3182]	4478	[6472, 5681]	6500	[7754, 111]

435	[842, 843]	2457	[4181, 4182]	4479	[6473, 830]	6501	[1124, 4318]
436	[844, 845]	2458	[4183, 4184]	4480	[5119, 6474]	6502	[4022, 4682]
437	[846, 847]	2459	[3717, 1195]	4481	[2133, 6475]	6503	[7755, 7756]
438	[848, 849]	2460	[4185, 4186]	4482	[2879, 811]	6504	[7512, 7757]
439	[850, 851]	2461	[4187, 3634]	4483	[6476, 6477]	6505	[1213, 6868]
440	[852, 853]	2462	[1486, 1168]	4484	[6426, 5883]	6506	[7758, 4021]
441	[854, 580]	2463	[88, 1625]	4485	[6361, 6478]	6507	[4229, 253]
442	[855, 856]	2464	[3581, 3549]	4486	[6479, 5904]	6508	[7759, 4939]
443	[857, 729]	2465	[350, 1294]	4487	[6466, 6480]	6509	[445, 7760]
444	[858, 859]	2466	[4188, 4189]	4488	[6310, 6481]	6510	[122, 7730]
445	[860, 861]	2467	[4190, 4191]	4489	[5087, 6482]	6511	[275, 7761]
446	[862, 863]	2468	[4192, 4193]	4490	[6483, 5081]	6512	[7555, 7290]
447	[864, 865]	2469	[1157, 4194]	4491	[6484, 5558]	6513	[7674, 7762]
448	[866, 867]	2470	[4195, 3505]	4492	[6485, 6486]	6514	[7405, 3411]
449	[868, 869]	2471	[4132, 3490]	4493	[575, 6487]	6515	[7763, 1589]
450	[870, 871]	2472	[4196, 4197]	4494	[6488, 1856]	6516	[7697, 3429]
451	[872, 873]	2473	[4198, 1771]	4495	[6489, 6490]	6517	[3312, 7346]
452	[874, 875]	2474	[348, 4199]	4496	[2747, 6491]	6518	[7764, 7765]
453	[876, 877]	2475	[4200, 4201]	4497	[5666, 6492]	6519	[7491, 7766]
454	[878, 879]	2476	[4202, 4203]	4498	[6493, 924]	6520	[3859, 4937]
455	[880, 881]	2477	[4204, 4205]	4499	[6454, 5241]	6521	[7753, 1682]
456	[882, 883]	2478	[4206, 3563]	4500	[6105, 6494]	6522	[7610, 444]
457	[884, 885]	2479	[4207, 4208]	4501	[1826, 6251]	6523	[7767, 7714]
458	[886, 887]	2480	[1146, 4209]	4502	[6495, 6496]	6524	[1044, 7768]
459	[888, 889]	2481	[3536, 4210]	4503	[2698, 2381]	6525	[1649, 7671]
460	[890, 891]	2482	[3431, 4211]	4504	[6218, 6116]	6526	[3556, 7002]
461	[892, 893]	2483	[4212, 4213]	4505	[6497, 6498]	6527	[7214, 4948]
462	[894, 895]	2484	[3358, 4214]	4506	[617, 6499]	6528	[3988, 4887]
463	[896, 897]	2485	[4215, 4216]	4507	[2632, 5736]	6529	[3482, 6849]
464	[898, 229]	2486	[4217, 4218]	4508	[6500, 5120]	6530	[328, 4750]
465	[899, 900]	2487	[4219, 4220]	4509	[2516, 53]	6531	[5001, 4752]
466	[901, 902]	2488	[4221, 4222]	4510	[2204, 6501]	6532	[3919, 4387]
467	[903, 904]	2489	[4223, 4224]	4511	[2944, 6502]	6533	[4079, 333]
468	[905, 857]	2490	[4225, 4040]	4512	[6503, 5949]	6534	[4644, 3533]
469	[906, 717]	2491	[4226, 4227]	4513	[6504, 6505]	6535	[7286, 7769]
470	[907, 908]	2492	[4228, 4229]	4514	[6506, 6507]	6536	[3273, 7663]
471	[909, 910]	2493	[4230, 4180]	4515	[6508, 6509]	6537	[1130, 7692]
472	[911, 912]	2494	[4231, 4183]	4516	[6510, 6511]	6538	[7770, 1260]
473	[913, 682]	2495	[1379, 1354]	4517	[5646, 3128]	6539	[4797, 7640]
474	[914, 915]	2496	[1381, 4232]	4518	[6272, 5898]	6540	[7771, 7078]
475	[916, 917]	2497	[4233, 4234]	4519	[5287, 6483]	6541	[7446, 7333]
476	[918, 919]	2498	[4235, 4236]	4520	[5286, 2486]	6542	[1727, 99]
477	[920, 921]	2499	[4237, 4238]	4521	[2877, 5336]	6543	[7257, 7772]
478	[922, 923]	2500	[4239, 420]	4522	[5018, 6311]	6544	[7302, 6967]

479	[924, 925]	2501	[3592, 4240]	4523	[6512, 5552]	6545	[4728, 3642]
480	[926, 927]	2502	[4241, 4242]	4524	[6513, 6514]	6546	[1022, 7719]
481	[928, 929]	2503	[1300, 4243]	4525	[6515, 884]	6547	[7458, 1038]
482	[930, 931]	2504	[4244, 4245]	4526	[6516, 5511]	6548	[7773, 7592]
483	[932, 933]	2505	[4246, 1481]	4527	[5720, 6510]	6549	[7774, 7127]
484	[934, 860]	2506	[3683, 4247]	4528	[6517, 6518]	6550	[7742, 7566]
485	[935, 899]	2507	[4220, 4248]	4529	[2891, 2259]	6551	[4431, 7232]
486	[936, 937]	2508	[4249, 3612]	4530	[5850, 6519]	6552	[7756, 7775]
487	[938, 939]	2509	[3889, 4250]	4531	[6520, 5200]	6553	[7140, 7776]
488	[940, 941]	2510	[4046, 4251]	4532	[1816, 6521]	6554	[7672, 4926]
489	[942, 943]	2511	[4252, 4253]	4533	[6522, 952]	6555	[7751, 1045]
490	[944, 945]	2512	[4254, 4255]	4534	[6523, 6070]	6556	[4562, 7764]
491	[946, 947]	2513	[4256, 4257]	4535	[6083, 5618]	6557	[1708, 7701]
492	[948, 949]	2514	[1194, 1237]	4536	[5929, 680]	6558	[6937, 4597]
493	[950, 951]	2515	[4258, 4259]	4537	[889, 172]	6559	[4902, 7777]
494	[952, 953]	2516	[4260, 4261]	4538	[6220, 6524]	6560	[7539, 1342]
495	[954, 955]	2517	[4262, 4263]	4539	[2402, 5296]	6561	[1754, 4178]
496	[956, 957]	2518	[3981, 3716]	4540	[5320, 6254]	6562	[7607, 3650]
497	[958, 959]	2519	[4264, 4265]	4541	[6525, 6113]	6563	[1563, 7699]
498	[960, 961]	2520	[4266, 3917]	4542	[2038, 6526]	6564	[1099, 4541]
499	[86, 962]	2521	[3701, 4267]	4543	[2167, 2108]	6565	[3459, 4543]
500	[963, 964]	2522	[4268, 4269]	4544	[5449, 6527]	6566	[3198, 4488]
501	[965, 966]	2523	[4270, 3740]	4545	[5737, 6528]	6567	[7778, 4472]
502	[967, 968]	2524	[4271, 4272]	4546	[5413, 6529]	6568	[7745, 7550]
503	[969, 970]	2525	[4273, 3596]	4547	[6530, 6531]	6569	[7342, 3827]
504	[971, 972]	2526	[92, 4274]	4548	[947, 2357]	6570	[7779, 4175]
505	[973, 974]	2527	[4275, 4276]	4549	[2875, 5259]	6571	[4044, 3920]
506	[975, 976]	2528	[4277, 4278]	4550	[6532, 5696]	6572	[3890, 4772]
507	[977, 978]	2529	[4072, 4279]	4551	[5723, 2254]	6573	[7565, 7780]
508	[979, 980]	2530	[4280, 4281]	4552	[2946, 6533]	6574	[7359, 7452]
509	[981, 982]	2531	[470, 4282]	4553	[6534, 5457]	6575	[7360, 3446]
510	[983, 984]	2532	[4283, 4284]	4554	[6262, 2021]	6576	[7678, 7285]
511	[985, 101]	2533	[4285, 4286]	4555	[6535, 6536]	6577	[7707, 119]
512	[986, 987]	2534	[4287, 4288]	4556	[6386, 570]	6578	[4719, 1464]
513	[988, 989]	2535	[4289, 4290]	4557	[1835, 2041]	6579	[7256, 7306]
514	[990, 97]	2536	[4291, 4292]	4558	[6482, 6389]	6580	[1287, 7735]
515	[991, 992]	2537	[4265, 4293]	4559	[6498, 6537]	6581	[7722, 1471]
516	[993, 994]	2538	[4294, 1276]	4560	[1846, 6538]	6582	[3561, 1685]
517	[995, 996]	2539	[4295, 3598]	4561	[2941, 6539]	6583	[3706, 7754]
518	[997, 998]	2540	[4296, 3600]	4562	[6540, 6541]	6584	[7638, 4530]
519	[999, 1000]	2541	[3945, 1231]	4563	[6542, 6543]	6585	[4849, 7152]
520	[1001, 1002]	2542	[414, 389]	4564	[6544, 6545]	6586	[7492, 6983]
521	[1003, 1004]	2543	[3502, 4297]	4565	[6546, 6547]	6587	[7647, 1348]
522	[1005, 1006]	2544	[4298, 4299]	4566	[6548, 6549]	6588	[7457, 7781]

523	[1007, 1008]	2545	[1144, 4300]	4567	[5831, 2681]	6589	[7712, 7782]
524	[1009, 1010]	2546	[3811, 4301]	4568	[2274, 6550]	6590	[7463, 1564]
525	[1011, 1012]	2547	[4302, 4303]	4569	[2820, 5097]	6591	[7783, 1620]
526	[1013, 1014]	2548	[4304, 4014]	4570	[5789, 6551]	6592	[4348, 6976]
527	[1015, 1016]	2549	[3726, 4305]	4571	[6452, 2532]	6593	[7637, 4680]
528	[1017, 1018]	2550	[4306, 4307]	4572	[6453, 5966]	6594	[429, 7535]
529	[1019, 1020]	2551	[4308, 4309]	4573	[40, 6552]	6595	[3983, 3437]
530	[1021, 1022]	2552	[356, 1009]	4574	[2647, 6228]	6596	[6999, 3141]
531	[1023, 1024]	2553	[4310, 4311]	4575	[6018, 2947]	6597	[7392, 3177]
532	[1025, 1026]	2554	[4312, 4313]	4576	[6188, 2949]	6598	[6930, 3646]
533	[1027, 1028]	2555	[3485, 4314]	4577	[6553, 6368]	6599	[4393, 3687]
534	[402, 1029]	2556	[3548, 4315]	4578	[6554, 6000]	6600	[4267, 1608]
535	[1030, 1031]	2557	[4316, 4317]	4579	[6490, 6555]	6601	[4094, 7060]
536	[1032, 1033]	2558	[4318, 4319]	4580	[6491, 6556]	6602	[1153, 7277]
537	[1034, 1035]	2559	[4320, 4321]	4581	[6139, 6557]	6603	[4278, 1380]
538	[1036, 1037]	2560	[3250, 4322]	4582	[6558, 5063]	6604	[4279, 256]
539	[1038, 301]	2561	[4323, 4324]	4583	[6559, 6560]	6605	[4281, 7571]
540	[1039, 1040]	2562	[4325, 1062]	4584	[6561, 2493]	6606	[7153, 7283]
541	[1041, 1042]	2563	[4326, 4327]	4585	[2930, 2494]	6607	[1703, 3582]
542	[1043, 1044]	2564	[30, 4328]	4586	[44, 903]	6608	[7400, 1001]
543	[1045, 1046]	2565	[4053, 4329]	4587	[6562, 6563]	6609	[7784, 293]
544	[1047, 1048]	2566	[1495, 4330]	4588	[6564, 6565]	6610	[7320, 7603]
545	[1049, 1050]	2567	[4331, 65]	4589	[6004, 6566]	6611	[4250, 3299]
546	[1051, 1034]	2568	[4332, 4333]	4590	[6567, 5795]	6612	[3850, 4354]
547	[1052, 1053]	2569	[4334, 3875]	4591	[5327, 6568]	6613	[495, 6847]
548	[1054, 1055]	2570	[4335, 1528]	4592	[6569, 824]	6614	[7785, 371]
549	[1056, 1057]	2571	[1181, 3820]	4593	[2987, 2748]	6615	[1442, 7763]
550	[1058, 1059]	2572	[4336, 988]	4594	[6570, 2451]	6616	[3202, 1786]
551	[1060, 1061]	2573	[4337, 4338]	4595	[6571, 6572]	6617	[3868, 7382]
552	[1062, 1063]	2574	[4339, 3571]	4596	[959, 6573]	6618	[4604, 985]
553	[1064, 1065]	2575	[4340, 4341]	4597	[6574, 6248]	6619	[7500, 7004]
554	[1066, 1067]	2576	[4342, 4343]	4598	[2194, 2359]	6620	[1240, 7673]
555	[1068, 1069]	2577	[1169, 4344]	4599	[6575, 1970]	6621	[7786, 7528]
556	[1070, 1071]	2578	[4345, 1469]	4600	[6576, 2199]	6622	[1697, 7746]
557	[1072, 492]	2579	[3784, 4339]	4601	[5410, 6577]	6623	[4596, 7481]
558	[1073, 1074]	2580	[4346, 4347]	4602	[6578, 5562]	6624	[1639, 7552]
559	[1075, 1076]	2581	[4272, 4348]	4603	[5901, 6579]	6625	[1277, 4501]
560	[497, 1077]	2582	[4349, 4350]	4604	[6580, 6581]	6626	[7364, 7374]
561	[1078, 1079]	2583	[4351, 4352]	4605	[5183, 6582]	6627	[4738, 7648]
562	[1080, 1081]	2584	[4353, 3139]	4606	[5240, 3067]	6628	[7787, 7641]
563	[1082, 1083]	2585	[4354, 4355]	4607	[2600, 6583]	6629	[1242, 3568]
564	[1084, 1085]	2586	[4356, 4357]	4608	[6584, 2269]	6630	[72, 981]
565	[1086, 1087]	2587	[4358, 4359]	4609	[6585, 1927]	6631	[1548, 7748]
566	[257, 1088]	2588	[3447, 4360]	4610	[3079, 5975]	6632	[3899, 4082]

567	[273, 1089]	2589	[3218, 4361]	4611	[5623, 1912]	6633	[7788, 7752]
568	[1090, 1091]	2590	[964, 4362]	4612	[5867, 2859]	6634	[7762, 6998]
569	[1092, 1093]	2591	[3504, 4363]	4613	[5172, 502]	6635	[7662, 7709]
570	[1094, 1095]	2592	[3653, 3893]	4614	[6586, 6257]	6636	[4986, 3201]
571	[1096, 1097]	2593	[4364, 4365]	4615	[6177, 6587]	6637	[7536, 7789]
572	[1098, 1099]	2594	[4366, 4367]	4616	[6213, 5514]	6638	[7402, 1783]
573	[1100, 1101]	2595	[4368, 4369]	4617	[50, 5103]	6639	[7020, 7790]
574	[1102, 1103]	2596	[4370, 4371]	4618	[6588, 2132]	6640	[4470, 4457]
575	[1104, 1105]	2597	[4372, 4373]	4619	[6589, 5337]	6641	[7766, 7558]
576	[1106, 436]	2598	[4374, 4125]	4620	[6137, 2642]	6642	[4355, 3959]
577	[1107, 1108]	2599	[4375, 4376]	4621	[6590, 6091]	6643	[7567, 7353]
578	[1109, 1110]	2600	[4377, 4378]	4622	[6591, 6464]	6644	[3933, 6861]
579	[1111, 1112]	2601	[1787, 1121]	4623	[1869, 6425]	6645	[7717, 3854]
580	[1113, 1114]	2602	[4379, 3906]	4624	[5446, 864]	6646	[4794, 7365]
581	[1115, 1116]	2603	[4380, 3908]	4625	[1897, 2929]	6647	[6972, 7128]
582	[1117, 1118]	2604	[4381, 4382]	4626	[6381, 6592]	6648	[7564, 4836]
583	[1119, 1120]	2605	[4383, 4384]	4627	[6358, 3024]	6649	[4959, 460]
584	[1121, 1122]	2606	[3567, 1441]	4628	[6593, 6594]	6650	[7791, 7438]
585	[1123, 1124]	2607	[1347, 4385]	4629	[5811, 6595]	6651	[82, 3671]
586	[1125, 1126]	2608	[4386, 305]	4630	[2617, 6596]	6652	[7792, 430]
587	[1127, 1128]	2609	[4387, 4388]	4631	[5634, 6569]	6653	[491, 4306]
588	[1129, 1130]	2610	[4389, 4390]	4632	[6597, 5664]	6654	[1059, 7793]
589	[1131, 1132]	2611	[3386, 1080]	4633	[2871, 6578]	6655	[4642, 7436]
590	[1133, 1134]	2612	[4391, 373]	4634	[2389, 5174]	6656	[1330, 7639]
591	[1135, 1136]	2613	[4392, 4393]	4635	[2904, 5306]	6657	[7510, 7788]
592	[1137, 1138]	2614	[4394, 4395]	4636	[6598, 2213]	6658	[358, 7442]
593	[1139, 1140]	2615	[4396, 1206]	4637	[5766, 6599]	6659	[6986, 1090]
594	[1141, 1142]	2616	[4397, 4103]	4638	[6600, 6601]	6660	[7794, 7691]
595	[1143, 1144]	2617	[1580, 4398]	4639	[6602, 2341]	6661	[4301, 7795]
596	[1145, 1146]	2618	[4399, 4400]	4640	[3056, 5963]	6662	[961, 3570]
597	[1147, 1148]	2619	[3973, 4401]	4641	[6603, 6604]	6663	[66, 3586]
598	[1149, 1149]	2620	[4243, 363]	4642	[6605, 6013]	6664	[4494, 7551]
599	[1150, 1151]	2621	[4402, 4403]	4643	[6606, 5544]	6665	[3534, 4915]
600	[1152, 1153]	2622	[4404, 3344]	4644	[6607, 6567]	6666	[7796, 4862]
601	[1154, 1155]	2623	[1748, 4405]	4645	[5116, 2783]	6667	[314, 7632]
602	[1156, 1157]	2624	[4406, 3584]	4646	[5716, 6608]	6668	[4944, 7388]
603	[1158, 1159]	2625	[4407, 4408]	4647	[551, 6530]	6669	[4754, 4465]
604	[1160, 1161]	2626	[4409, 4410]	4648	[2350, 2388]	6670	[1371, 7623]
605	[1162, 1163]	2627	[4411, 4412]	4649	[597, 2480]	6671	[7559, 3473]
606	[1164, 1165]	2628	[4413, 4414]	4650	[6011, 6609]	6672	[7443, 4118]
607	[1166, 1167]	2629	[1760, 4415]	4651	[6610, 196]	6673	[7797, 3284]
608	[1168, 1169]	2630	[4416, 4417]	4652	[6501, 6611]	6674	[4867, 4177]
609	[1170, 1171]	2631	[1273, 4418]	4653	[6612, 6344]	6675	[1536, 7380]
610	[1172, 1173]	2632	[4419, 4420]	4654	[6613, 6614]	6676	[4496, 4579]

611	[1174, 1175]	2633	[4421, 4422]	4655	[2724, 2985]	6677	[6900, 3463]
612	[1176, 1177]	2634	[4423, 4424]	4656	[6615, 6616]	6678	[3162, 7738]
613	[1178, 1179]	2635	[4425, 4426]	4657	[6617, 2342]	6679	[4546, 1515]
614	[1180, 1181]	2636	[4427, 3543]	4658	[6618, 6619]	6680	[7798, 4919]
615	[1182, 1183]	2637	[4428, 4429]	4659	[5494, 2977]	6681	[7186, 7391]
616	[1184, 1185]	2638	[4430, 4431]	4660	[6620, 6621]	6682	[4523, 6845]
617	[1186, 1187]	2639	[4194, 3334]	4661	[6252, 2908]	6683	[7622, 1398]
618	[1188, 355]	2640	[4432, 4433]	4662	[6622, 6192]	6684	[6870, 1058]
619	[1189, 1190]	2641	[4434, 4435]	4663	[2477, 6380]	6685	[7012, 7799]
620	[1191, 1192]	2642	[4436, 3731]	4664	[2784, 5447]	6686	[7063, 3799]
621	[1193, 1194]	2643	[4437, 963]	4665	[5050, 2841]	6687	[7649, 7800]
622	[1195, 1196]	2644	[3224, 3338]	4666	[6623, 2621]	6688	[7768, 3257]
623	[433, 1197]	2645	[1201, 1559]	4667	[5042, 2423]	6689	[4599, 4325]
624	[1198, 1199]	2646	[1367, 4438]	4668	[6624, 5167]	6690	[3585, 4198]
625	[1200, 1201]	2647	[4439, 4440]	4669	[6625, 1836]	6691	[1484, 1696]
626	[1202, 1203]	2648	[4441, 4375]	4670	[6397, 5692]	6692	[3196, 7785]
627	[1204, 1205]	2649	[1281, 4231]	4671	[5226, 6421]	6693	[4426, 7779]
628	[1206, 1207]	2650	[4442, 1282]	4672	[2865, 2130]	6694	[4209, 7326]
629	[1208, 1209]	2651	[4443, 341]	4673	[6626, 754]	6695	[1556, 7181]
630	[1210, 1211]	2652	[4444, 1494]	4674	[6627, 6628]	6696	[1460, 4392]
631	[1212, 1213]	2653	[4445, 4446]	4675	[6629, 6630]	6697	[3246, 7097]
632	[1214, 1215]	2654	[437, 4447]	4676	[5950, 2975]	6698	[1450, 3705]
633	[1216, 1217]	2655	[4448, 4449]	4677	[6631, 3111]	6699	[7323, 7727]
634	[1218, 1219]	2656	[4450, 4451]	4678	[2262, 6632]	6700	[3356, 7345]
635	[1220, 1221]	2657	[64, 3481]	4679	[6207, 5375]	6701	[7668, 440]
636	[1222, 1223]	2658	[4452, 4453]	4680	[5705, 6633]	6702	[7547, 7801]
637	[1224, 1225]	2659	[4454, 4455]	4681	[6117, 2713]	6703	[7664, 3676]
638	[1028, 1226]	2660	[1577, 4456]	4682	[6094, 5298]	6704	[269, 1251]
639	[1227, 1228]	2661	[4457, 3690]	4683	[3088, 5409]	6705	[7596, 6909]
640	[1229, 1230]	2662	[3546, 4458]	4684	[3112, 2107]	6706	[7273, 7723]
641	[1231, 1232]	2663	[3287, 4459]	4685	[6634, 1825]	6707	[4238, 345]
642	[1233, 1234]	2664	[4460, 4461]	4686	[5053, 2833]	6708	[7802, 7679]
643	[1235, 1236]	2665	[300, 3320]	4687	[6635, 6636]	6709	[7803, 4892]
644	[1237, 1238]	2666	[4172, 3727]	4688	[6637, 6638]	6710	[3220, 7758]
645	[1239, 1240]	2667	[4462, 353]	4689	[6639, 2964]	6711	[4639, 7437]
646	[1241, 1242]	2668	[4463, 4464]	4690	[6214, 6564]	6712	[7169, 7572]
647	[1243, 1244]	2669	[4465, 4466]	4691	[236, 5324]	6713	[7389, 3700]
648	[1245, 1246]	2670	[4467, 4468]	4692	[2672, 6640]	6714	[7304, 7804]
649	[1247, 1248]	2671	[4469, 4470]	4693	[6641, 6642]	6715	[3977, 7711]
650	[1249, 1250]	2672	[4096, 4471]	4694	[6643, 6644]	6716	[4898, 7805]
651	[1251, 1252]	2673	[4472, 4473]	4695	[2140, 6645]	6717	[7123, 4331]
652	[1253, 1254]	2674	[3569, 4474]	4696	[6646, 6149]	6718	[7626, 3787]
653	[1255, 1256]	2675	[4475, 4476]	4697	[669, 6647]	6719	[3631, 7806]
654	[1257, 1258]	2676	[4477, 1369]	4698	[5055, 5423]	6720	[7561, 4602]

655	[1259, 481]	2677	[4478, 4479]	4699	[6001, 6648]	6721	[1244, 7407]
656	[1260, 1261]	2678	[4480, 1591]	4700	[6235, 6649]	6722	[263, 4444]
657	[1262, 1263]	2679	[4481, 347]	4701	[5052, 6650]	6723	[6880, 7807]
658	[1264, 1265]	2680	[4482, 418]	4702	[6183, 2761]	6724	[4687, 3530]
659	[1266, 1267]	2681	[4471, 4483]	4703	[6651, 2212]	6725	[7103, 7808]
660	[1268, 1269]	2682	[4484, 3361]	4704	[6652, 2273]	6726	[7524, 7441]
661	[1270, 1271]	2683	[4485, 4486]	4705	[5708, 6653]	6727	[4519, 4953]
662	[1272, 1273]	2684	[400, 4487]	4706	[3127, 6012]	6728	[1328, 7088]
663	[1274, 1275]	2685	[4488, 4489]	4707	[6654, 2773]	6729	[7720, 7480]
664	[1276, 1277]	2686	[1236, 4490]	4708	[6655, 6656]	6730	[7809, 4969]
665	[1278, 1279]	2687	[1444, 4491]	4709	[6657, 6335]	6731	[7810, 4780]
666	[1280, 1281]	2688	[4492, 3656]	4710	[2120, 5538]	6732	[6984, 7811]
667	[1282, 1283]	2689	[4493, 4494]	4711	[6658, 6659]	6733	[4095, 1755]
668	[1284, 1285]	2690	[1173, 311]	4712	[2678, 6039]	6734	[3480, 1068]
669	[1286, 1287]	2691	[4495, 4496]	4713	[6179, 5437]	6735	[7812, 7132]
670	[1288, 1289]	2692	[3855, 4497]	4714	[5115, 6219]	6736	[994, 4112]
671	[1290, 1291]	2693	[4498, 3418]	4715	[2348, 2768]	6737	[4509, 7813]
672	[1292, 1293]	2694	[1767, 4499]	4716	[5891, 6660]	6738	[1609, 4632]
673	[1294, 1295]	2695	[4068, 4500]	4717	[6661, 2293]	6739	[1532, 7406]
674	[489, 1296]	2696	[4501, 4502]	4718	[499, 6662]	6740	[7814, 1111]
675	[1297, 1298]	2697	[4503, 4077]	4719	[801, 5660]	6741	[968, 7378]
676	[1299, 1300]	2698	[4504, 4078]	4720	[925, 6663]	6742	[7034, 4881]
677	[1301, 1145]	2699	[4505, 4506]	4721	[2690, 6664]	6743	[7747, 3271]
678	[1203, 1302]	2700	[4507, 1576]	4722	[5892, 2285]	6744	[7682, 7815]
679	[1303, 1304]	2701	[4508, 4509]	4723	[5818, 5654]	6745	[7497, 1654]
680	[1305, 1306]	2702	[1338, 4510]	4724	[5880, 6665]	6746	[7445, 359]
681	[1307, 1308]	2703	[4511, 4512]	4725	[2207, 2033]	6747	[7292, 4200]
682	[1309, 1310]	2704	[4513, 4514]	4726	[5763, 6666]	6748	[1678, 7070]
683	[1311, 1312]	2705	[4515, 4516]	4727	[6667, 5074]	6749	[7588, 7686]
684	[1313, 1314]	2706	[4517, 4518]	4728	[5231, 5662]	6750	[7690, 1766]
685	[1315, 1316]	2707	[3342, 4519]	4729	[6668, 6089]	6751	[3950, 7513]
686	[1263, 1317]	2708	[3887, 4520]	4730	[3119, 6669]	6752	[1050, 7778]
687	[1318, 1319]	2709	[4521, 3931]	4731	[5635, 176]	6753	[7799, 1566]
688	[1320, 1321]	2710	[3971, 4522]	4732	[177, 2729]	6754	[7800, 3236]
689	[1322, 1323]	2711	[4473, 4523]	4733	[6670, 3072]	6755	[3385, 1488]
690	[1324, 1325]	2712	[4524, 4525]	4734	[6271, 6671]	6756	[4401, 1152]
691	[1326, 1327]	2713	[4526, 3652]	4735	[6672, 6673]	6757	[4830, 7413]
692	[338, 1328]	2714	[4527, 4528]	4736	[5671, 6150]	6758	[4935, 317]
693	[1329, 1330]	2715	[4529, 1229]	4737	[6674, 2453]	6759	[4447, 7242]
694	[1331, 1332]	2716	[4530, 4531]	4738	[6106, 6675]	6760	[1269, 6842]
695	[1333, 1334]	2717	[4532, 4533]	4739	[6676, 2759]	6761	[7776, 7816]
696	[1335, 1336]	2718	[320, 4534]	4740	[3043, 6677]	6762	[4758, 397]
697	[1337, 1338]	2719	[1365, 3805]	4741	[3039, 5058]	6763	[1527, 7817]
698	[1339, 1340]	2720	[3426, 4535]	4742	[5299, 5926]	6764	[3147, 7803]

699	[1341, 1318]	2721	[4536, 4537]	4743	[6678, 5805]	6765	[1628, 3946]
700	[1342, 1343]	2722	[4538, 3195]	4744	[6679, 6162]	6766	[3878, 3759]
701	[1344, 1345]	2723	[1321, 4539]	4745	[2665, 5272]	6767	[7818, 7039]
702	[1346, 1347]	2724	[116, 4540]	4746	[6608, 6282]	6768	[7018, 3835]
703	[1348, 1349]	2725	[4541, 4542]	4747	[5153, 2924]	6769	[3774, 7614]
704	[1350, 1351]	2726	[4543, 4544]	4748	[6680, 3038]	6770	[992, 3860]
705	[1352, 1353]	2727	[4545, 4546]	4749	[5420, 5456]	6771	[1128, 7053]
706	[1354, 1355]	2728	[3713, 4547]	4750	[640, 6489]	6772	[80, 7819]
707	[1356, 1357]	2729	[4548, 4549]	4751	[642, 6065]	6773	[6844, 7356]
708	[1358, 1359]	2730	[352, 3572]	4752	[6681, 6479]	6774	[7263, 1738]
709	[1360, 1361]	2731	[4550, 3672]	4753	[6682, 6287]	6775	[1758, 7820]
710	[1362, 1363]	2732	[4551, 4552]	4754	[2013, 6683]	6776	[4293, 3244]
711	[1364, 1365]	2733	[4466, 4215]	4755	[5591, 547]	6777	[7486, 7656]
712	[1366, 1367]	2734	[4468, 1720]	4756	[6684, 549]	6778	[7821, 7786]
713	[1368, 327]	2735	[3979, 4553]	4757	[644, 5642]	6779	[7193, 4573]
714	[1369, 1370]	2736	[1619, 3987]	4758	[1895, 773]	6780	[4245, 7660]
715	[1046, 1371]	2737	[4234, 4554]	4759	[6685, 6686]	6781	[4806, 4001]
716	[1372, 1373]	2738	[1637, 3891]	4760	[6687, 6688]	6782	[439, 7553]
717	[1374, 1375]	2739	[3629, 3591]	4761	[2435, 6689]	6783	[6960, 3476]
718	[1376, 1377]	2740	[4555, 1227]	4762	[5814, 5636]	6784	[7822, 3520]
719	[1378, 1379]	2741	[4373, 4556]	4763	[6133, 6396]	6785	[7403, 4729]
720	[1380, 1381]	2742	[4557, 1100]	4764	[5553, 6690]	6786	[7381, 3168]
721	[1382, 1383]	2743	[425, 1604]	4765	[795, 5041]	6787	[6858, 7774]
722	[1384, 1385]	2744	[4558, 4559]	4766	[6691, 2462]	6788	[7789, 7823]
723	[1386, 1387]	2745	[4560, 4498]	4767	[5925, 6692]	6789	[7005, 7698]
724	[1388, 1389]	2746	[1653, 4561]	4768	[5734, 237]	6790	[4767, 7011]
725	[1390, 1391]	2747	[4385, 4562]	4769	[2636, 6693]	6791	[7616, 7568]
726	[1392, 1393]	2748	[4563, 4564]	4770	[2185, 6410]	6792	[7703, 3712]
727	[1394, 1395]	2749	[4565, 4101]	4771	[6694, 6695]	6793	[7772, 3830]
728	[1396, 1397]	2750	[3228, 3625]	4772	[6696, 6697]	6794	[6994, 7526]
729	[1398, 1399]	2751	[4566, 4567]	4773	[6481, 3019]	6795	[4248, 7783]
730	[1400, 1401]	2752	[4568, 4569]	4774	[847, 6698]	6796	[7138, 7773]
731	[1151, 1402]	2753	[3470, 4570]	4775	[573, 6699]	6797	[7708, 7395]
732	[1403, 1404]	2754	[4571, 4572]	4776	[5622, 826]	6798	[7613, 7064]
733	[1405, 1406]	2755	[4573, 4574]	4777	[2538, 5652]	6799	[7661, 4249]
734	[1407, 1408]	2756	[4575, 4576]	4778	[6340, 6295]	6800	[7741, 7822]
735	[1409, 1410]	2757	[4236, 4577]	4779	[1918, 6700]	6801	[3192, 7715]
736	[1411, 1412]	2758	[1323, 4241]	4780	[6701, 6702]	6802	[7704, 1374]
737	[1413, 1414]	2759	[4578, 3176]	4781	[6703, 5617]	6803	[7765, 1392]
738	[1415, 1416]	2760	[4579, 4580]	4782	[6329, 6704]	6804	[7732, 7467]
739	[1132, 1417]	2761	[3751, 4581]	4783	[2437, 6071]	6805	[4638, 7812]
740	[1418, 1360]	2762	[4050, 4391]	4784	[6320, 6705]	6806	[7651, 7478]
741	[1419, 1420]	2763	[1546, 3847]	4785	[6265, 6706]	6807	[70, 67]
742	[1421, 1422]	2764	[4582, 4583]	4786	[6707, 2931]	6808	[7578, 7332]

743	[1423, 1424]	2765	[4584, 4585]	4787	[6708, 6709]	6809	[7721, 3161]
744	[1425, 1426]	2766	[1375, 4586]	4788	[6710, 2777]	6810	[7241, 7509]
745	[1427, 1428]	2767	[1252, 1025]	4789	[5270, 6038]	6811	[3417, 4266]
746	[1248, 1429]	2768	[4587, 4588]	4790	[5669, 6711]	6812	[7824, 4430]
747	[1430, 1431]	2769	[4589, 4590]	4791	[6695, 6471]	6813	[7591, 7471]
748	[1432, 1313]	2770	[4591, 4592]	4792	[6712, 5667]	6814	[4624, 4493]
749	[1433, 1434]	2771	[4593, 4594]	4793	[3031, 2383]	6815	[7781, 3189]
750	[1435, 1436]	2772	[3421, 4595]	4794	[5098, 6713]	6816	[26, 7809]
751	[1437, 1438]	2773	[1582, 1741]	4795	[588, 5604]	6817	[4570, 4899]
752	[1439, 1440]	2774	[1643, 4596]	4796	[6714, 6715]	6818	[4120, 7520]
753	[1441, 1442]	2775	[340, 3330]	4797	[6716, 6717]	6819	[3956, 264]
754	[1443, 1444]	2776	[4597, 4217]	4798	[2416, 1996]	6820	[4652, 4622]
755	[1445, 1446]	2777	[4598, 1292]	4799	[5242, 6718]	6821	[4811, 7825]
756	[1105, 1447]	2778	[3770, 4599]	4800	[6446, 1878]	6822	[4162, 3181]
757	[1448, 1066]	2779	[4600, 4601]	4801	[6719, 2404]	6823	[7621, 7203]
758	[1449, 1450]	2780	[4602, 3819]	4802	[6494, 6286]	6824	[4114, 7740]
759	[1451, 1452]	2781	[4603, 4604]	4803	[6720, 2779]	6825	[1179, 3142]
760	[1453, 1454]	2782	[4605, 4606]	4804	[648, 6721]	6826	[4259, 3144]
761	[1455, 1456]	2783	[4607, 4608]	4805	[2463, 6101]	6827	[7594, 1728]
762	[1457, 1458]	2784	[4609, 4610]	4806	[2772, 6722]	6828	[7826, 7827]
763	[1459, 1460]	2785	[4459, 291]	4807	[753, 6723]	6829	[7828, 7683]
764	[1461, 1462]	2786	[4611, 1233]	4808	[6724, 6725]	6830	[4438, 3169]
765	[1258, 1463]	2787	[3343, 4612]	4809	[2816, 6045]	6831	[7769, 4310]
766	[1464, 1465]	2788	[4613, 4614]	4810	[2382, 5482]	6832	[7525, 7059]
767	[435, 1466]	2789	[4146, 4615]	4811	[5921, 6726]	6833	[4859, 7328]
768	[1467, 1468]	2790	[4616, 4617]	4812	[5462, 618]	6834	[7829, 7830]
769	[1469, 1268]	2791	[4618, 4262]	4813	[937, 6727]	6835	[2244, 5334]
770	[1470, 1326]	2792	[4619, 4620]	4814	[5967, 5250]	6836	[5033, 6520]
771	[1471, 1472]	2793	[4621, 3944]	4815	[6728, 6246]	6837	[7831, 5128]
772	[1473, 1474]	2794	[4622, 4623]	4816	[6729, 6730]	6838	[5340, 6600]
773	[1475, 1476]	2795	[292, 4624]	4817	[6731, 6732]	6839	[2808, 785]
774	[1477, 1478]	2796	[4625, 4605]	4818	[6733, 6734]	6840	[825, 7832]
775	[1479, 1480]	2797	[4626, 4627]	4819	[6735, 5625]	6841	[2076, 2801]
776	[1481, 1482]	2798	[4007, 4628]	4820	[2605, 6736]	6842	[6616, 6634]
777	[1483, 1484]	2799	[4525, 4629]	4821	[6737, 1838]	6843	[7833, 2243]
778	[1485, 1486]	2800	[4630, 1585]	4822	[1961, 6123]	6844	[957, 7834]
779	[1393, 1487]	2801	[3615, 4631]	4823	[6738, 6299]	6845	[2442, 5554]
780	[1488, 1489]	2802	[4458, 3791]	4824	[6538, 6641]	6846	[6348, 6155]
781	[1490, 1491]	2803	[4632, 4633]	4825	[6739, 2921]	6847	[2952, 6360]
782	[1492, 1493]	2804	[4634, 4635]	4826	[6740, 596]	6848	[2471, 2325]
783	[1494, 1495]	2805	[4636, 4080]	4827	[2309, 5192]	6849	[5727, 6764]
784	[1496, 1497]	2806	[4422, 3184]	4828	[6003, 5902]	6850	[5479, 2679]
785	[1498, 1499]	2807	[4637, 4638]	4829	[613, 5300]	6851	[6649, 231]
786	[1500, 1501]	2808	[4506, 4639]	4830	[3001, 2023]	6852	[2180, 6037]

787	[1502, 1503]	2809	[4640, 1015]	4831	[6741, 938]	6853	[6163, 7835]
788	[1504, 1505]	2810	[4641, 4642]	4832	[6742, 6743]	6854	[3075, 6269]
789	[1491, 1506]	2811	[4643, 4644]	4833	[6314, 1830]	6855	[7836, 6315]
790	[1507, 1508]	2812	[4645, 4646]	4834	[6744, 1865]	6856	[2034, 5633]
791	[1509, 1510]	2813	[280, 4647]	4835	[2192, 905]	6857	[6103, 719]
792	[1511, 339]	2814	[1289, 4648]	4836	[6745, 2353]	6858	[7837, 7838]
793	[1512, 1513]	2815	[3532, 4649]	4837	[6746, 180]	6859	[2738, 2890]
794	[1514, 1368]	2816	[4650, 4651]	4838	[5155, 1948]	6860	[155, 7839]
795	[1515, 1516]	2817	[3995, 3739]	4839	[535, 6747]	6861	[1824, 1962]
796	[1517, 1518]	2818	[4062, 411]	4840	[5619, 158]	6862	[6154, 7840]
797	[1519, 1208]	2819	[3903, 3324]	4841	[6748, 6749]	6863	[7841, 2881]
798	[1520, 1521]	2820	[3158, 4652]	4842	[5761, 5914]	6864	[6035, 2271]
799	[1053, 1522]	2821	[4653, 4654]	4843	[5547, 2727]	6865	[2165, 5249]
800	[1523, 1524]	2822	[3303, 1435]	4844	[6732, 6750]	6866	[6330, 6801]
801	[1525, 1526]	2823	[4655, 4656]	4845	[5697, 3005]	6867	[3041, 1803]
802	[1383, 1527]	2824	[112, 4657]	4846	[2298, 6751]	6868	[6153, 5838]
803	[1528, 1529]	2825	[3863, 4658]	4847	[6543, 49]	6869	[7842, 6279]
804	[1530, 1531]	2826	[1540, 4659]	4848	[745, 920]	6870	[6239, 1965]
805	[1463, 1532]	2827	[4660, 4661]	4849	[2403, 6752]	6871	[5874, 7843]
806	[1533, 1534]	2828	[3667, 4662]	4850	[2311, 6371]	6872	[7844, 7845]
807	[1535, 1536]	2829	[4663, 4664]	4851	[6686, 6753]	6873	[6223, 5123]
808	[1537, 1538]	2830	[1429, 4665]	4852	[6688, 6754]	6874	[2692, 6676]
809	[1539, 1540]	2831	[4666, 4667]	4853	[5430, 6570]	6875	[5861, 7846]
810	[1142, 1541]	2832	[4668, 3928]	4854	[6754, 5881]	6876	[6319, 6755]
811	[1542, 1543]	2833	[4669, 4670]	4855	[3090, 6339]	6877	[6480, 5680]
812	[1544, 1523]	2834	[4671, 4416]	4856	[3107, 5228]	6878	[6789, 7836]
813	[334, 1545]	2835	[3991, 4672]	4857	[5364, 6132]	6879	[1806, 6678]
814	[1069, 1546]	2836	[3404, 4673]	4858	[6755, 6756]	6880	[2918, 5909]
815	[1547, 1548]	2837	[4674, 4675]	4859	[6757, 5427]	6881	[6066, 7847]
816	[1549, 1550]	2838	[4676, 4677]	4860	[6758, 5876]	6882	[7848, 7849]
817	[1551, 1552]	2839	[4678, 3637]	4861	[5490, 6111]	6883	[7850, 5849]
818	[1553, 1554]	2840	[1087, 4679]	4862	[5451, 5826]	6884	[2209, 6624]
819	[1555, 1556]	2841	[4680, 4154]	4863	[6759, 5990]	6885	[7851, 6394]
820	[1557, 1558]	2842	[1120, 4681]	4864	[6666, 3081]	6886	[7852, 5475]
821	[1559, 1198]	2843	[4682, 4683]	4865	[5783, 6130]	6887	[3013, 2693]
822	[1560, 1561]	2844	[4684, 4685]	4866	[6718, 6760]	6888	[5609, 7853]
823	[1562, 1563]	2845	[4686, 4630]	4867	[230, 6098]	6889	[6148, 7854]
824	[1564, 1565]	2846	[28, 4687]	4868	[6761, 5674]	6890	[5469, 7855]
825	[1566, 1567]	2847	[4688, 4689]	4869	[2518, 6762]	6891	[5782, 6156]
826	[1568, 1569]	2848	[4690, 4691]	4870	[2714, 5315]	6892	[2934, 731]
827	[1570, 1571]	2849	[4692, 1041]	4871	[5008, 5917]	6893	[895, 6739]
828	[1126, 1572]	2850	[4693, 3900]	4872	[2258, 6052]	6894	[5182, 2310]
829	[427, 1172]	2851	[4694, 4695]	4873	[6763, 2878]	6895	[2545, 7856]
830	[344, 1573]	2852	[4696, 4697]	4874	[2544, 6707]	6896	[6704, 6792]

831	[1574, 1575]	2853	[4698, 3440]	4875	[6764, 6708]	6897	[6604, 2459]
832	[1576, 1577]	2854	[4699, 4700]	4876	[6611, 5056]	6898	[5791, 6002]
833	[1578, 321]	2855	[4701, 4702]	4877	[628, 6268]	6899	[5383, 2338]
834	[1579, 1580]	2856	[4703, 4704]	4878	[6765, 6766]	6900	[7857, 6441]
835	[1581, 1582]	2857	[423, 3939]	4879	[2812, 6534]	6901	[7858, 2344]
836	[1583, 1584]	2858	[3685, 4705]	4880	[2489, 6767]	6902	[3131, 7859]
837	[1585, 1586]	2859	[3749, 3247]	4881	[5740, 6610]	6903	[5775, 3086]
838	[1587, 1588]	2860	[4706, 3976]	4882	[6579, 674]	6904	[5291, 2861]
839	[1589, 1590]	2861	[4707, 1419]	4883	[5328, 5443]	6905	[5062, 7860]
840	[1591, 1592]	2862	[4708, 4709]	4884	[5488, 6768]	6906	[6594, 7861]
841	[1593, 1403]	2863	[4710, 4711]	4885	[5703, 6769]	6907	[5934, 7862]
842	[1594, 1595]	2864	[4712, 4289]	4886	[6770, 6771]	6908	[224, 6508]
843	[1596, 1597]	2865	[4713, 4052]	4887	[5040, 6772]	6909	[6665, 3034]
844	[1598, 1599]	2866	[1447, 4714]	4888	[6024, 5597]	6910	[6221, 3036]
845	[124, 1193]	2867	[3711, 4715]	4889	[2276, 6773]	6911	[2897, 6535]
846	[1600, 1601]	2868	[4716, 4717]	4890	[6583, 2421]	6912	[7863, 7848]
847	[1602, 1603]	2869	[253, 4718]	4891	[5505, 6337]	6913	[6650, 5767]
848	[1604, 1605]	2870	[1709, 4719]	4892	[5022, 2719]	6914	[7864, 5454]
849	[1606, 1607]	2871	[4720, 4721]	4893	[5651, 208]	6915	[6776, 7865]
850	[1608, 1609]	2872	[3865, 4722]	4894	[5579, 800]	6916	[6692, 6613]
851	[1610, 1611]	2873	[4723, 4724]	4895	[762, 5894]	6917	[5195, 1998]
852	[455, 1612]	2874	[4725, 4726]	4896	[6662, 6774]	6918	[5962, 1807]
853	[1613, 1614]	2875	[4727, 4728]	4897	[6775, 6776]	6919	[1866, 6457]
854	[1615, 1115]	2876	[4104, 3776]	4898	[6777, 6778]	6920	[6408, 5079]
855	[1616, 1617]	2877	[4729, 4730]	4899	[5464, 6525]	6921	[7866, 6428]
856	[1134, 1618]	2878	[4581, 4731]	4900	[3004, 6779]	6922	[5102, 5896]
857	[1531, 1619]	2879	[4732, 1544]	4901	[5379, 6780]	6923	[2449, 7867]
858	[1620, 1621]	2880	[4363, 3644]	4902	[46, 5310]	6924	[5176, 6208]
859	[1431, 1622]	2881	[3828, 1652]	4903	[6645, 5436]	6925	[5524, 7868]
860	[1623, 1624]	2882	[4683, 4733]	4904	[6781, 6782]	6926	[3102, 2835]
861	[1625, 1626]	2883	[4734, 4666]	4905	[6747, 6783]	6927	[6126, 7869]
862	[1627, 1628]	2884	[4735, 4105]	4906	[2246, 6784]	6928	[2020, 152]
863	[1629, 1630]	2885	[3651, 4736]	4907	[6395, 6580]	6929	[6596, 3115]
864	[463, 1631]	2886	[4594, 4737]	4908	[6785, 6063]	6930	[7869, 35]
865	[1632, 1633]	2887	[4211, 4738]	4909	[601, 6786]	6931	[6407, 239]
866	[1634, 1635]	2888	[4739, 1539]	4910	[6054, 5338]	6932	[6722, 7870]
867	[1636, 1637]	2889	[4740, 4741]	4911	[6787, 6548]	6933	[7871, 7872]
868	[318, 393]	2890	[3209, 1249]	4912	[6068, 5927]	6934	[7873, 2898]
869	[1638, 1639]	2891	[4742, 3897]	4913	[6563, 2097]	6935	[2956, 844]
870	[1640, 1641]	2892	[1399, 3982]	4914	[6565, 2725]	6936	[6609, 5503]
871	[1642, 1643]	2893	[4662, 4743]	4915	[749, 6403]	6937	[6511, 6419]
872	[1644, 1262]	2894	[1327, 4448]	4916	[6486, 6463]	6938	[6734, 940]
873	[1645, 315]	2895	[1543, 1210]	4917	[6788, 6789]	6939	[7874, 6445]
874	[1646, 1647]	2896	[1769, 4744]	4918	[6675, 6790]	6940	[7875, 2613]

875	[1648, 1649]	2897	[4745, 4746]	4919	[5066, 6008]	6941	[1862, 6597]
876	[1650, 1651]	2898	[3241, 4747]	4920	[5602, 6791]	6942	[6462, 6176]
877	[1652, 1653]	2899	[4552, 4748]	4921	[3082, 6237]	6943	[2990, 6316]
878	[1654, 274]	2900	[1055, 1390]	4922	[5675, 6574]	6944	[2843, 1888]
879	[1655, 1656]	2901	[1599, 4419]	4923	[6792, 651]	6945	[5453, 5173]
880	[1657, 1658]	2902	[330, 4749]	4924	[6519, 5302]	6946	[2393, 7876]
881	[1659, 1660]	2903	[4750, 4751]	4925	[2963, 2361]	6947	[7877, 5023]
882	[1661, 1662]	2904	[4752, 4753]	4926	[5237, 6240]	6948	[7878, 5526]
883	[1663, 1664]	2905	[1261, 4754]	4927	[6793, 6794]	6949	[12, 5573]
884	[1665, 1666]	2906	[4755, 4756]	4928	[6713, 6795]	6950	[3045, 2998]
885	[1199, 1667]	2907	[4757, 4758]	4929	[6354, 6622]	6951	[7840, 5825]
886	[1668, 1669]	2908	[4759, 4760]	4930	[675, 6796]	6952	[5537, 5583]
887	[1670, 1671]	2909	[4761, 4762]	4931	[6797, 5610]	6953	[1848, 6681]
888	[1672, 1517]	2910	[4763, 4764]	4932	[6798, 6680]	6954	[6677, 6197]
889	[1673, 1674]	2911	[1271, 4505]	4933	[2857, 6186]	6955	[5947, 7850]
890	[1675, 1676]	2912	[336, 4765]	4934	[6730, 5837]	6956	[52, 6390]
891	[1677, 1678]	2913	[4766, 4767]	4935	[6799, 6800]	6957	[2294, 2731]
892	[1679, 1680]	2914	[4768, 395]	4936	[5229, 13]	6958	[6323, 7879]
893	[1545, 1681]	2915	[1438, 4228]	4937	[6430, 6672]	6959	[6465, 6799]
894	[1682, 1078]	2916	[1506, 1425]	4938	[5890, 2616]	6960	[5415, 5385]
895	[1683, 1684]	2917	[4718, 4480]	4939	[6363, 6023]	6961	[5412, 7880]
896	[1685, 961]	2918	[1468, 4769]	4940	[2657, 5786]	6962	[6727, 7881]
897	[1686, 1687]	2919	[4770, 4377]	4941	[6801, 6802]	6963	[5915, 7882]
898	[308, 1364]	2920	[3321, 4771]	4942	[6803, 6804]	6964	[2487, 6777]
899	[1688, 1689]	2921	[4772, 4773]	4943	[6805, 6806]	6965	[7883, 6589]
900	[1690, 1691]	2922	[4486, 4774]	4944	[2232, 6500]	6966	[2585, 5746]
901	[1692, 1693]	2923	[4775, 1119]	4945	[2533, 6590]	6967	[6372, 6172]
902	[1694, 1695]	2924	[3604, 4776]	4946	[5378, 5976]	6968	[6284, 2979]
903	[1696, 1697]	2925	[4777, 4778]	4947	[503, 5550]	6969	[3080, 7884]
904	[1698, 1699]	2926	[1033, 4779]	4948	[6807, 828]	6970	[6283, 2957]
905	[1700, 1701]	2927	[4780, 4781]	4949	[5768, 6424]	6971	[2656, 6658]
906	[1702, 1703]	2928	[4782, 4783]	4950	[6808, 6809]	6972	[1891, 6485]
907	[312, 1704]	2929	[4535, 3595]	4951	[6768, 2439]	6973	[2842, 5380]
908	[1705, 1706]	2930	[1205, 4181]	4952	[5255, 6516]	6974	[2902, 5551]
909	[1707, 1708]	2931	[4299, 4784]	4953	[5908, 41]	6975	[2943, 3083]
910	[296, 1709]	2932	[4785, 4107]	4954	[2268, 6810]	6976	[6302, 7885]
911	[1710, 1711]	2933	[4786, 4787]	4955	[6343, 5569]	6977	[6514, 6515]
912	[1712, 1182]	2934	[1138, 4788]	4956	[5532, 2837]	6978	[7886, 6651]
913	[1196, 1713]	2935	[4789, 4790]	4957	[5691, 6811]	6979	[6277, 3109]
914	[396, 337]	2936	[4791, 4411]	4958	[5863, 6812]	6980	[1920, 7887]
915	[1714, 1715]	2937	[4792, 3560]	4959	[813, 892]	6981	[14, 227]
916	[1716, 1717]	2938	[4793, 4794]	4960	[5348, 6813]	6982	[2040, 7837]
917	[1718, 1719]	2939	[326, 4795]	4961	[2136, 5254]	6983	[7888, 2846]
918	[1720, 1721]	2940	[4796, 4797]	4962	[3037, 2667]	6984	[6388, 6152]

919	[1722, 1723]	2941	[1221, 4798]	4963	[6814, 6047]	6985	[1877, 2735]
920	[1561, 1724]	2942	[4799, 3627]	4964	[2999, 5781]	6986	[6062, 7889]
921	[1428, 1725]	2943	[4623, 3864]	4965	[6267, 6304]	6987	[7890, 7891]
922	[1726, 1727]	2944	[4446, 4800]	4966	[6795, 6815]	6988	[6402, 5360]
923	[1728, 1729]	2945	[4801, 971]	4967	[6816, 6729]	6989	[6796, 6167]
924	[1730, 1731]	2946	[3300, 3872]	4968	[1905, 5085]	6990	[7885, 5455]
925	[1732, 1358]	2947	[4802, 4485]	4969	[54, 1886]	6991	[5758, 7831]
926	[1733, 1734]	2948	[4803, 3659]	4970	[2531, 6605]	6992	[6404, 6740]
927	[1735, 1736]	2949	[332, 4804]	4971	[2913, 2478]	6993	[7892, 6775]
928	[1093, 1737]	2950	[4805, 1467]	4972	[5973, 5835]	6994	[5359, 880]
929	[1738, 1245]	2951	[1550, 4806]	4973	[6817, 5715]	6995	[5884, 2573]
930	[1739, 1740]	2952	[4807, 4808]	4974	[6818, 5819]	6996	[2405, 2599]
931	[1741, 1742]	2953	[4809, 4010]	4975	[6031, 2247]	6997	[6762, 3050]
932	[1743, 1744]	2954	[4810, 4811]	4976	[5129, 6114]	6998	[6258, 5434]
933	[1745, 1746]	2955	[3333, 1301]	4977	[5862, 3054]	6999	[5616, 5489]
934	[1747, 1748]	2956	[4812, 4813]	4978	[2492, 6506]	7000	[5599, 7893]
935	[1749, 1690]	2957	[4814, 289]	4979	[6819, 6820]	7001	[7894, 5150]
936	[1750, 1346]	2958	[4815, 4816]	4980	[5959, 901]	7002	[5572, 2569]
937	[1751, 1752]	2959	[4516, 4817]	4981	[6444, 6821]	7003	[6085, 5421]
938	[1753, 1754]	2960	[4818, 4819]	4982	[6822, 5028]	7004	[5561, 6107]
939	[372, 405]	2961	[4741, 4820]	4983	[513, 6364]	7005	[7895, 2640]
940	[1755, 1756]	2962	[4821, 1311]	4984	[6779, 3117]	7006	[5092, 5983]
941	[1757, 1758]	2963	[4822, 4030]	4985	[5341, 5372]	7007	[6442, 5567]
942	[1759, 1760]	2964	[4823, 4824]	4986	[185, 5698]	7008	[5365, 748]
943	[1761, 1762]	2965	[3643, 4825]	4987	[6823, 6757]	7009	[6820, 133]
944	[1763, 1640]	2966	[4826, 4230]	4988	[6007, 2822]	7010	[2982, 5347]
945	[271, 1642]	2967	[4788, 4827]	4989	[2369, 5211]	7011	[5845, 5960]
946	[1764, 1765]	2968	[4828, 3914]	4990	[6824, 6461]	7012	[7896, 2804]
947	[1766, 1767]	2969	[4829, 4830]	4991	[6825, 6826]	7013	[6632, 7897]
948	[1768, 1769]	2970	[4831, 4832]	4992	[6549, 5885]	7014	[2753, 7898]
949	[1770, 1733]	2971	[4833, 4834]	4993	[1833, 5773]	7015	[5919, 7899]
950	[1771, 1772]	2972	[4835, 4190]	4994	[6821, 6827]	7016	[6127, 6450]
951	[1773, 1774]	2973	[1408, 4713]	4995	[6800, 6238]	7017	[7900, 6185]
952	[1775, 1443]	2974	[4836, 4187]	4996	[5854, 6828]	7018	[6041, 6076]
953	[1776, 1777]	2975	[4731, 87]	4997	[6829, 5972]	7019	[2147, 6338]
954	[1778, 1779]	2976	[4837, 89]	4998	[6830, 1809]	7020	[1993, 5722]
955	[1780, 1781]	2977	[4838, 4839]	4999	[6356, 6084]	7021	[6760, 2177]
956	[1782, 299]	2978	[4840, 4841]	5000	[6831, 5363]	7022	[7901, 5958]
957	[1783, 1784]	2979	[4842, 3193]	5001	[5157, 6682]	7023	[5753, 878]
958	[284, 1785]	2980	[4843, 4844]	5002	[585, 5031]	7024	[7902, 6417]
959	[1786, 1787]	2981	[4583, 4845]	5003	[586, 6807]	7025	[7903, 6095]
960	[1788, 1789]	2982	[1256, 4846]	5004	[6832, 5707]	7026	[7904, 6816]
961	[1790, 1791]	2983	[4564, 4847]	5005	[6833, 6231]	7027	[5701, 7905]
962	[1792, 1793]	2984	[1061, 4848]	5006	[6432, 5523]	7028	[3060, 6668]

963	[1794, 1795]	2985	[4539, 4849]	5007	[6834, 3194]	7029	[6529, 7877]
964	[1796, 1797]	2986	[4540, 4223]	5008	[1219, 6835]	7030	[3110, 6661]
965	[1798, 1799]	2987	[4554, 1623]	5009	[3715, 6836]	7031	[2418, 7906]
966	[1800, 1801]	2988	[1317, 4850]	5010	[6837, 3223]	7032	[5596, 6746]
967	[1802, 726]	2989	[4851, 4852]	5011	[4730, 4917]	7033	[6706, 6300]
968	[1803, 1804]	2990	[4629, 4853]	5012	[6838, 6839]	7034	[7907, 1832]
969	[1805, 1806]	2991	[1063, 4854]	5013	[6840, 4346]	7035	[2726, 5292]
970	[1807, 1808]	2992	[4855, 4856]	5014	[6841, 4316]	7036	[7908, 57]
971	[1809, 1810]	2993	[4857, 4067]	5015	[6842, 4524]	7037	[2249, 2235]
972	[1811, 645]	2994	[4858, 4859]	5016	[4567, 1492]	7038	[6547, 5776]
973	[1812, 1813]	2995	[4860, 3148]	5017	[6843, 6844]	7039	[1853, 6322]
974	[183, 1814]	2996	[3952, 4861]	5018	[1024, 3725]	7040	[7909, 2337]
975	[1815, 1816]	2997	[4862, 4863]	5019	[6845, 3541]	7041	[7910, 7903]
976	[1817, 1818]	2998	[4864, 4865]	5020	[4333, 6846]	7042	[6166, 6584]
977	[1819, 760]	2999	[4866, 4867]	5021	[6847, 4349]	7043	[5991, 6448]
978	[1820, 594]	3000	[4695, 4868]	5022	[6848, 4025]	7044	[5076, 7911]
979	[1821, 1822]	3001	[4869, 4870]	5023	[6849, 6850]	7045	[6438, 7912]
980	[1823, 1824]	3002	[4871, 4045]	5024	[1522, 6851]	7046	[6533, 3046]
981	[1825, 1826]	3003	[4872, 4873]	5025	[4242, 6852]	7047	[6393, 6830]
982	[1827, 767]	3004	[4874, 4875]	5026	[6853, 79]	7048	[7859, 6652]
983	[1828, 1829]	3005	[4876, 4877]	5027	[4020, 4477]	7049	[861, 7913]
984	[1830, 1831]	3006	[4878, 4879]	5028	[6854, 4323]	7050	[2662, 2127]
985	[1832, 1833]	3007	[1669, 3957]	5029	[6855, 4712]	7051	[5145, 6273]
986	[1834, 1835]	3008	[3445, 3512]	5030	[4856, 1107]	7052	[2925, 918]
987	[1836, 1837]	3009	[4880, 4757]	5031	[1122, 6841]	7053	[6699, 6415]
988	[1838, 1839]	3010	[4881, 4882]	5032	[6856, 6857]	7054	[646, 6620]
989	[1840, 1841]	3011	[1765, 3537]	5033	[310, 3278]	7055	[6683, 6831]
990	[147, 1842]	3012	[4883, 4884]	5034	[4388, 1072]	7056	[2460, 622]
991	[1843, 1844]	3013	[4885, 4886]	5035	[4966, 6858]	7057	[511, 7914]
992	[1845, 1846]	3014	[4887, 3831]	5036	[6859, 1003]	7058	[5314, 733]
993	[1847, 1848]	3015	[4888, 4889]	5037	[3806, 6860]	7059	[5570, 6714]
994	[1849, 1850]	3016	[4890, 1457]	5038	[6861, 4903]	7060	[2805, 6553]
995	[1851, 1852]	3017	[3506, 4891]	5039	[6862, 4618]	7061	[7915, 6606]
996	[1810, 1853]	3018	[4892, 4443]	5040	[4395, 6848]	7062	[5974, 6701]
997	[1854, 1855]	3019	[4893, 4894]	5041	[6863, 6864]	7063	[2760, 2763]
998	[1856, 1857]	3020	[4895, 3867]	5042	[4861, 4071]	7064	[2730, 2049]
999	[1858, 1859]	3021	[4896, 4897]	5043	[6865, 6866]	7065	[2385, 2766]
1000	[1860, 1861]	3022	[3464, 4898]	5044	[3930, 4686]	7066	[2630, 5855]
1001	[1861, 1862]	3023	[4899, 4900]	5045	[6867, 967]	7067	[2553, 832]
1002	[1863, 1864]	3024	[4901, 4902]	5046	[6868, 1253]	7068	[7865, 6635]
1003	[1865, 1866]	3025	[4903, 3336]	5047	[6869, 285]	7069	[6169, 6345]
1004	[1867, 1868]	3026	[4904, 4905]	5048	[3800, 6870]	7070	[2978, 7916]
1005	[557, 1869]	3027	[4906, 1309]	5049	[6871, 6872]	7071	[1797, 2279]
1006	[1870, 1871]	3028	[4907, 4603]	5050	[4691, 3969]	7072	[6406, 7917]

1007	[1872, 1873]	3029	[4908, 1659]	5051	[1171, 4380]	7073	[6100, 6679]
1008	[1874, 1875]	3030	[4909, 1455]	5052	[4197, 6873]	7074	[2466, 944]
1009	[1876, 174]	3031	[4910, 4735]	5053	[3314, 4671]	7075	[6545, 5075]
1010	[179, 1877]	3032	[4911, 4912]	5054	[6874, 6875]	7076	[7918, 5332]
1011	[1878, 1879]	3033	[4222, 4660]	5055	[4950, 6876]	7077	[5500, 1828]
1012	[1880, 1881]	3034	[4913, 4914]	5056	[3761, 6877]	7078	[6092, 6019]
1013	[1882, 1883]	3035	[4915, 4161]	5057	[4553, 3948]	7079	[7919, 2602]
1014	[1884, 1885]	3036	[3795, 3389]	5058	[4918, 6878]	7080	[2433, 6043]
1015	[1886, 1887]	3037	[4916, 4463]	5059	[6879, 6880]	7081	[7920, 6102]
1016	[1888, 1889]	3038	[4917, 4918]	5060	[1351, 1156]	7082	[6568, 2900]
1017	[1890, 1891]	3039	[4919, 3972]	5061	[4949, 4206]	7083	[6120, 6215]
1018	[1892, 1893]	3040	[4224, 3157]	5062	[6881, 6882]	7084	[7921, 5670]
1019	[1894, 1895]	3041	[4135, 3159]	5063	[1163, 6883]	7085	[2314, 5815]
1020	[1896, 1897]	3042	[4920, 4383]	5064	[4328, 6884]	7086	[6184, 5049]
1021	[1898, 1899]	3043	[4921, 4922]	5065	[368, 6885]	7087	[5540, 6435]
1022	[1900, 1901]	3044	[4923, 343]	5066	[6846, 4123]	7088	[5114, 6250]
1023	[1902, 1903]	3045	[4924, 4925]	5067	[6886, 4138]	7089	[7922, 7923]
1024	[1904, 1905]	3046	[4926, 4835]	5068	[3911, 75]	7090	[2720, 7924]
1025	[1906, 636]	3047	[4927, 4928]	5069	[1436, 6887]	7091	[6689, 2561]
1026	[1907, 638]	3048	[4338, 3630]	5070	[6888, 1264]	7092	[5897, 6657]
1027	[1908, 1909]	3049	[4929, 4930]	5071	[6889, 6890]	7093	[6400, 59]
1028	[1910, 1911]	3050	[1744, 399]	5072	[6891, 4374]	7094	[2111, 7925]
1029	[1912, 1913]	3051	[4931, 4932]	5073	[4756, 277]	7095	[6134, 5093]
1030	[819, 1914]	3052	[1226, 4933]	5074	[3500, 3748]	7096	[677, 2365]
1031	[1915, 1916]	3053	[4934, 4935]	5075	[6892, 3527]	7097	[7926, 7927]
1032	[1917, 1918]	3054	[3294, 4936]	5076	[6893, 6894]	7098	[5999, 5262]
1033	[1919, 1920]	3055	[4937, 4938]	5077	[1410, 6895]	7099	[6502, 6140]
1034	[1921, 1922]	3056	[4939, 3648]	5078	[6896, 4972]	7100	[6505, 7928]
1035	[1923, 1924]	3057	[4940, 4941]	5079	[6897, 6898]	7101	[6138, 2571]
1036	[1925, 1926]	3058	[4942, 1445]	5080	[4714, 4924]	7102	[7929, 5735]
1037	[1927, 772]	3059	[4943, 4944]	5081	[3222, 4668]	7103	[6233, 2208]
1038	[1928, 593]	3060	[4945, 4946]	5082	[6899, 1280]	7104	[2379, 6540]
1039	[1929, 1930]	3061	[4176, 4947]	5083	[4610, 6900]	7105	[6566, 5982]
1040	[1931, 1932]	3062	[4948, 123]	5084	[6901, 1284]	7106	[2969, 935]
1041	[1933, 1934]	3063	[4744, 4949]	5085	[4544, 6902]	7107	[187, 5913]
1042	[1935, 1936]	3064	[3638, 4012]	5086	[3450, 6903]	7108	[5463, 6710]
1043	[1937, 1938]	3065	[4870, 4950]	5087	[4612, 6904]	7109	[7930, 694]
1044	[1939, 1940]	3066	[4951, 4003]	5088	[6905, 6906]	7110	[6205, 5955]
1045	[1941, 1942]	3067	[322, 4952]	5089	[6907, 6908]	7111	[2015, 5969]
1046	[1943, 1944]	3068	[4953, 4954]	5090	[6909, 6910]	7112	[5943, 7931]
1047	[1945, 538]	3069	[4955, 3553]	5091	[6911, 3593]	7113	[7932, 7933]
1048	[1946, 1947]	3070	[996, 4956]	5092	[6912, 4532]	7114	[2612, 7934]
1049	[1948, 1949]	3071	[4930, 4957]	5093	[4702, 6913]	7115	[523, 5987]
1050	[1950, 1951]	3072	[1493, 4955]	5094	[6914, 25]	7116	[2700, 6738]

1051	[1952, 1923]	3073	[4958, 4959]	5095	[6915, 6916]	7117	[1930, 156]
1052	[1953, 1954]	3074	[3765, 4960]	5096	[3609, 5000]	7118	[2396, 7935]
1053	[1955, 1956]	3075	[120, 4961]	5097	[1353, 6917]	7119	[7861, 5933]
1054	[1957, 1943]	3076	[4962, 1485]	5098	[3172, 6918]	7120	[2126, 5620]
1055	[1958, 1959]	3077	[3730, 3815]	5099	[6919, 4568]	7121	[6331, 47]
1056	[1960, 1961]	3078	[3861, 4963]	5100	[6920, 6921]	7122	[5762, 1884]
1057	[1962, 746]	3079	[1693, 4964]	5101	[6850, 4991]	7123	[2056, 6617]
1058	[1963, 1964]	3080	[4965, 4920]	5102	[394, 3702]	7124	[7936, 684]
1059	[1965, 946]	3081	[118, 4690]	5103	[3562, 4885]	7125	[7937, 6021]
1060	[1966, 1967]	3082	[3380, 4793]	5104	[6922, 3507]	7126	[6293, 7938]
1061	[1968, 1969]	3083	[1592, 4966]	5105	[4491, 6923]	7127	[7838, 2940]
1062	[1970, 1971]	3084	[1607, 4967]	5106	[1674, 4235]	7128	[5331, 6562]
1063	[1972, 1973]	3085	[4968, 3779]	5107	[6924, 6925]	7129	[7939, 6674]
1064	[1974, 1975]	3086	[4969, 4640]	5108	[6926, 6927]	7130	[6081, 2112]
1065	[217, 540]	3087	[4970, 4641]	5109	[4365, 3475]	7131	[5587, 7940]
1066	[1976, 1977]	3088	[4722, 4694]	5110	[3960, 4]	7132	[6601, 850]
1067	[1978, 1979]	3089	[4451, 4971]	5111	[4158, 6928]	7133	[590, 855]
1068	[1980, 1981]	3090	[4972, 4923]	5112	[6929, 6930]	7134	[751, 5903]
1069	[1982, 1983]	3091	[4973, 4974]	5113	[4100, 6931]	7135	[6786, 6808]
1070	[1984, 1985]	3092	[4232, 4975]	5114	[267, 3238]	7136	[6437, 818]
1071	[1986, 1987]	3093	[417, 4976]	5115	[6932, 6933]	7137	[3058, 6222]
1072	[1988, 1989]	3094	[3834, 4977]	5116	[6934, 6935]	7138	[5804, 6306]
1073	[1990, 1991]	3095	[4041, 1430]	5117	[6936, 4090]	7139	[7941, 5357]
1074	[1992, 1993]	3096	[4978, 4513]	5118	[4817, 6937]	7140	[6753, 7942]
1075	[1994, 1995]	3097	[4979, 4980]	5119	[4819, 6938]	7141	[6391, 2000]
1076	[1996, 1997]	3098	[4981, 4982]	5120	[4059, 6939]	7142	[7943, 6585]
1077	[1998, 1999]	3099	[4983, 4351]	5121	[6940, 4407]	7143	[6087, 5687]
1078	[2000, 2001]	3100	[3668, 4775]	5122	[3622, 6941]	7144	[6194, 5452]
1079	[2002, 2003]	3101	[4984, 3492]	5123	[4464, 6942]	7145	[7944, 6170]
1080	[2004, 894]	3102	[4528, 4688]	5124	[6943, 6944]	7146	[6528, 3014]
1081	[2005, 2006]	3103	[3382, 4985]	5125	[3515, 6945]	7147	[7945, 5317]
1082	[1887, 2007]	3104	[3383, 4789]	5126	[6946, 6947]	7148	[2920, 7946]
1083	[2008, 2009]	3105	[4274, 4986]	5127	[6948, 3516]	7149	[6375, 5756]
1084	[2010, 2011]	3106	[4987, 4858]	5128	[6949, 6950]	7150	[7933, 5808]
1085	[2012, 2013]	3107	[1223, 4869]	5129	[6951, 3961]	7151	[7947, 6383]
1086	[2014, 2015]	3108	[4988, 4244]	5130	[3163, 6952]	7152	[6743, 6030]
1087	[2016, 2017]	3109	[3226, 3771]	5131	[4129, 3999]	7153	[5807, 6352]
1088	[2018, 2019]	3110	[4989, 4990]	5132	[6953, 3394]	7154	[2907, 7948]
1089	[539, 2020]	3111	[1656, 4204]	5133	[3154, 6954]	7155	[7949, 6631]
1090	[2021, 2022]	3112	[4247, 3291]	5134	[6955, 4246]	7156	[7950, 2586]
1091	[871, 702]	3113	[4257, 4413]	5135	[6956, 3328]	7157	[7951, 6026]
1092	[2023, 2024]	3114	[4991, 4992]	5136	[6957, 1272]	7158	[1942, 5349]
1093	[2025, 2026]	3115	[3233, 4381]	5137	[6958, 4432]	7159	[6280, 6598]
1094	[2027, 2028]	3116	[4993, 4994]	5138	[6959, 4934]	7160	[5643, 5169]

1095	[2029, 2030]	3117	[4875, 4786]	5139	[3435, 6960]	7161	[6671, 5641]
1096	[2031, 2032]	3118	[3836, 1702]	5140	[6961, 1320]	7162	[5086, 5911]
1097	[2033, 2034]	3119	[4995, 1388]	5141	[4449, 1158]	7163	[7952, 2166]
1098	[2035, 2036]	3120	[4753, 4258]	5142	[1518, 3757]	7164	[2163, 6118]
1099	[2037, 2038]	3121	[4996, 4997]	5143	[6962, 3274]	7165	[6769, 7915]
1100	[2039, 2040]	3122	[4615, 3696]	5144	[1684, 6963]	7166	[2074, 7890]
1101	[2041, 2042]	3123	[484, 4998]	5145	[6964, 3422]	7167	[7953, 6242]
1102	[2043, 2044]	3124	[4343, 4999]	5146	[6965, 6966]	7168	[7954, 7955]
1103	[2045, 1976]	3125	[5000, 5001]	5147	[6967, 4987]	7169	[5210, 6639]
1104	[2046, 2047]	3126	[5002, 5003]	5148	[6968, 4674]	7170	[6195, 5877]
1105	[665, 2048]	3127	[5004, 3682]	5149	[1503, 6969]	7171	[6418, 7956]
1106	[2049, 2050]	3128	[5005, 5006]	5150	[3738, 6970]	7172	[7957, 5889]
1107	[2051, 2052]	3129	[4670, 3666]	5151	[3374, 6971]	7173	[36, 6803]
1108	[2053, 2054]	3130	[4769, 1372]	5152	[1018, 6972]	7174	[2622, 1910]
1109	[2055, 2056]	3131	[4711, 4394]	5153	[3419, 283]	7175	[2006, 6667]
1110	[1793, 2057]	3132	[4627, 4404]	5154	[6973, 3407]	7176	[2542, 7958]
1111	[747, 2058]	3133	[4405, 4085]	5155	[1660, 3409]	7177	[5770, 2086]
1112	[2059, 2060]	3134	[4113, 4302]	5156	[6875, 3698]	7178	[6507, 5726]
1113	[599, 2061]	3135	[5007, 650]	5157	[4947, 6974]	7179	[6790, 6082]
1114	[2062, 2063]	3136	[635, 5008]	5158	[4329, 6975]	7180	[6174, 7959]
1115	[2064, 2065]	3137	[5009, 5010]	5159	[6976, 1598]	7181	[2479, 6733]
1116	[2066, 2067]	3138	[766, 5011]	5160	[6977, 4684]	7182	[7960, 7961]
1117	[2068, 2069]	3139	[5012, 5013]	5161	[278, 367]	7183	[1799, 7866]
1118	[2070, 2071]	3140	[5014, 5015]	5162	[3239, 6978]	7184	[626, 2942]
1119	[2072, 653]	3141	[5016, 781]	5163	[4319, 6979]	7185	[879, 6288]
1120	[2073, 2074]	3142	[5017, 2188]	5164	[316, 3929]	7186	[2615, 950]
1121	[2075, 2076]	3143	[2174, 5018]	5165	[4779, 6980]	7187	[5368, 6670]
1122	[2077, 2078]	3144	[3011, 2027]	5166	[1723, 6981]	7188	[2007, 7902]
1123	[2079, 2080]	3145	[5019, 2029]	5167	[3402, 6982]	7189	[2845, 2799]
1124	[2081, 2082]	3146	[5020, 5021]	5168	[4160, 4575]	7190	[6794, 5906]
1125	[141, 2083]	3147	[711, 5022]	5169	[6983, 6984]	7191	[6227, 564]
1126	[2084, 2085]	3148	[5023, 5024]	5170	[4518, 3207]	7192	[5879, 7962]
1127	[2086, 2073]	3149	[807, 2717]	5171	[3363, 4866]	7193	[5856, 5321]
1128	[2087, 2088]	3150	[5025, 5026]	5172	[6918, 969]	7194	[6191, 5478]
1129	[2089, 2090]	3151	[5027, 5016]	5173	[3153, 6985]	7195	[5536, 6694]
1130	[2091, 2092]	3152	[2643, 2577]	5174	[4086, 6986]	7196	[5193, 2376]
1131	[2093, 2094]	3153	[5028, 5029]	5175	[4276, 4397]	7197	[2187, 3026]
1132	[2095, 2096]	3154	[2603, 2267]	5176	[6987, 6988]	7198	[6224, 2626]
1133	[2097, 2098]	3155	[732, 204]	5177	[6989, 1500]	7199	[7963, 7964]
1134	[1991, 154]	3156	[5030, 2663]	5178	[6990, 6991]	7200	[5938, 7965]
1135	[2099, 606]	3157	[5031, 2275]	5179	[3391, 3803]	7201	[6809, 5612]
1136	[2100, 608]	3158	[5032, 526]	5180	[406, 6992]	7202	[6468, 2883]
1137	[2101, 2102]	3159	[157, 5033]	5181	[1521, 4655]	7203	[941, 166]
1138	[2103, 2104]	3160	[5034, 556]	5182	[6864, 6993]	7204	[7966, 7844]

1139	[2105, 2106]	3161	[5035, 5036]	5183	[3393, 6994]	7205	[5164, 2281]
1140	[2107, 1892]	3162	[5037, 5038]	5184	[6995, 3199]	7206	[6811, 5996]
1141	[2108, 2109]	3163	[5039, 5040]	5185	[1611, 6996]	7207	[2106, 5095]
1142	[2110, 2111]	3164	[5041, 5042]	5186	[6997, 1726]	7208	[7967, 5096]
1143	[2112, 2113]	3165	[790, 5043]	5187	[6998, 6999]	7209	[5682, 5560]
1144	[2114, 140]	3166	[5044, 5045]	5188	[4199, 7000]	7210	[2092, 6164]
1145	[2115, 2116]	3167	[5046, 2419]	5189	[7001, 3881]	7211	[5151, 6165]
1146	[2117, 2118]	3168	[5047, 5048]	5190	[3366, 19]	7212	[2458, 6285]
1147	[2119, 2120]	3169	[5049, 5050]	5191	[7002, 105]	7213	[6660, 7968]
1148	[2121, 2122]	3170	[5051, 5052]	5192	[7003, 1164]	7214	[6253, 5953]
1149	[2123, 2124]	3171	[2866, 5053]	5193	[7004, 4069]	7215	[2485, 5796]
1150	[883, 2125]	3172	[5054, 5055]	5194	[3325, 7005]	7216	[701, 3069]
1151	[885, 2126]	3173	[5056, 5057]	5195	[7006, 3984]	7217	[6373, 5847]
1152	[2127, 2128]	3174	[5058, 2313]	5196	[1088, 3377]	7218	[201, 741]
1153	[1995, 2129]	3175	[5024, 5059]	5197	[7007, 7008]	7219	[5650, 666]
1154	[2130, 2131]	3176	[1981, 534]	5198	[4980, 7009]	7220	[2704, 5304]
1155	[2132, 2133]	3177	[2771, 5060]	5199	[1569, 4225]	7221	[6628, 7944]
1156	[2134, 2135]	3178	[5061, 5062]	5200	[4352, 6871]	7222	[6336, 5606]
1157	[1914, 2136]	3179	[5063, 5064]	5201	[3364, 6962]	7223	[2054, 5992]
1158	[2137, 1984]	3180	[5065, 5066]	5202	[7010, 3384]	7224	[5638, 2535]
1159	[2138, 1986]	3181	[5067, 2427]	5203	[7011, 3317]	7225	[629, 805]
1160	[2139, 2140]	3182	[5068, 1980]	5204	[4303, 7012]	7226	[3121, 2515]
1161	[2141, 2142]	3183	[5069, 2055]	5205	[7013, 7014]	7227	[658, 6202]
1162	[2143, 2144]	3184	[5070, 5012]	5206	[7015, 7016]	7228	[5668, 7969]
1163	[2145, 2146]	3185	[5071, 5072]	5207	[7017, 7018]	7229	[5060, 6561]
1164	[1967, 2147]	3186	[5073, 2114]	5208	[1165, 7019]	7230	[1954, 5184]
1165	[2148, 2149]	3187	[5074, 2371]	5209	[3997, 7020]	7231	[1969, 911]
1166	[2150, 2151]	3188	[5075, 2093]	5210	[3896, 3355]	7232	[7970, 6819]
1167	[2057, 202]	3189	[865, 5076]	5211	[1108, 7021]	7233	[6433, 7858]
1168	[2152, 2153]	3190	[221, 1796]	5212	[7022, 3660]	7234	[6108, 7971]
1169	[2154, 2155]	3191	[792, 3012]	5213	[7023, 3518]	7235	[2230, 6612]
1170	[2156, 2157]	3192	[5077, 5078]	5214	[7024, 4475]	7236	[5417, 678]
1171	[2158, 2159]	3193	[5079, 5080]	5215	[7025, 7026]	7237	[6726, 6832]
1172	[2160, 2161]	3194	[5081, 5082]	5216	[1397, 7027]	7238	[2564, 6217]
1173	[2162, 2163]	3195	[5083, 2604]	5217	[1742, 125]	7239	[6499, 7972]
1174	[2164, 2165]	3196	[5084, 725]	5218	[4124, 4051]	7240	[5629, 936]
1175	[2166, 2167]	3197	[5085, 5086]	5219	[1734, 7028]	7241	[6783, 2475]
1176	[2168, 2169]	3198	[2788, 5087]	5220	[7029, 6946]	7242	[6478, 5846]
1177	[2170, 2171]	3199	[5088, 5089]	5221	[7030, 7031]	7243	[7973, 866]
1178	[2172, 2173]	3200	[5090, 5091]	5222	[1016, 3557]	7244	[6573, 2627]
1179	[531, 2174]	3201	[2660, 5092]	5223	[4886, 7032]	7245	[2011, 2233]
1180	[2175, 2176]	3202	[5093, 5094]	5224	[3936, 4814]	7246	[6060, 6748]
1181	[2177, 2178]	3203	[5095, 1894]	5225	[7033, 7034]	7247	[7974, 5230]
1182	[2179, 2180]	3204	[5096, 565]	5226	[431, 4909]	7248	[2889, 809]

1183	[2181, 2182]	3205	[5097, 5098]	5227	[7035, 3442]	7249	[2529, 6603]
1184	[2183, 2184]	3206	[5099, 5100]	5228	[7036, 27]	7250	[7975, 2658]
1185	[829, 2185]	3207	[5101, 5102]	5229	[7037, 7038]	7251	[6146, 6385]
1186	[2186, 2187]	3208	[5103, 5104]	5230	[7039, 7040]	7252	[5744, 6824]
1187	[2188, 612]	3209	[5105, 5106]	5231	[7041, 7042]	7253	[5964, 7976]
1188	[1893, 2189]	3210	[5107, 5108]	5232	[1254, 7043]	7254	[5626, 909]
1189	[2161, 2190]	3211	[5109, 5110]	5233	[7044, 7045]	7255	[7977, 7936]
1190	[2191, 2192]	3212	[5111, 5112]	5234	[360, 7046]	7256	[2828, 5090]
1191	[2193, 2194]	3213	[5113, 1874]	5235	[7047, 1331]	7257	[6690, 2519]
1192	[2195, 2196]	3214	[2882, 5114]	5236	[970, 6879]	7258	[5942, 5352]
1193	[2197, 2198]	3215	[2333, 5115]	5237	[7048, 3885]	7259	[6642, 6554]
1194	[2199, 2200]	3216	[624, 5116]	5238	[380, 7049]	7260	[2328, 2817]
1195	[2201, 2202]	3217	[810, 5117]	5239	[7050, 1329]	7261	[6423, 7978]
1196	[2203, 2204]	3218	[5118, 5119]	5240	[7051, 4005]	7262	[6096, 5281]
1197	[837, 2205]	3219	[5120, 198]	5241	[106, 1759]	7263	[171, 6455]
1198	[2206, 2207]	3220	[5121, 5122]	5242	[7052, 3575]	7264	[7872, 2614]
1199	[2208, 2209]	3221	[5123, 5124]	5243	[4305, 4725]	7265	[7979, 2697]
1200	[2210, 2211]	3222	[5125, 2653]	5244	[7053, 4409]	7266	[6225, 576]
1201	[2212, 842]	3223	[5126, 5127]	5245	[1014, 1542]	7267	[6698, 7980]
1202	[2213, 2123]	3224	[5128, 5129]	5246	[7054, 4442]	7268	[7961, 6522]
1203	[2214, 2215]	3225	[802, 5130]	5247	[3511, 7055]	7269	[7981, 6763]
1204	[2216, 2217]	3226	[5131, 5132]	5248	[457, 1150]	7270	[6736, 5146]
1205	[2218, 2219]	3227	[5133, 5134]	5249	[7056, 3807]	7271	[839, 803]
1206	[2220, 2221]	3228	[5135, 5136]	5250	[7057, 4983]	7272	[567, 2441]
1207	[2222, 2223]	3229	[718, 743]	5251	[7058, 375]	7273	[6772, 5037]
1208	[2224, 2225]	3230	[5137, 5138]	5252	[7059, 3839]	7274	[561, 6532]
1209	[2226, 1950]	3231	[5139, 2031]	5253	[7060, 3434]	7275	[2796, 6814]
1210	[2227, 2228]	3232	[5140, 5141]	5254	[4733, 7061]	7276	[2608, 7982]
1211	[2229, 2230]	3233	[5142, 5143]	5255	[4376, 7062]	7277	[6599, 7983]
1212	[2231, 2232]	3234	[5144, 5145]	5256	[1067, 7063]	7278	[6281, 2864]
1213	[2233, 2234]	3235	[5146, 2709]	5257	[7064, 7065]	7279	[134, 5204]
1214	[2235, 2236]	3236	[5147, 2162]	5258	[7066, 4507]	7280	[5640, 6825]
1215	[2237, 2238]	3237	[5148, 5149]	5259	[4414, 6955]	7281	[6749, 6291]
1216	[2239, 2240]	3238	[5150, 5151]	5260	[7067, 7068]	7282	[1822, 5993]
1217	[2241, 2242]	3239	[529, 5152]	5261	[7069, 3694]	7283	[1901, 5083]
1218	[2243, 2244]	3240	[2069, 5153]	5262	[7016, 4450]	7284	[6539, 6168]
1219	[2245, 2246]	3241	[5154, 5155]	5263	[1452, 3657]	7285	[5931, 5521]
1220	[2247, 2248]	3242	[5156, 5157]	5264	[4853, 4593]	7286	[7984, 6017]
1221	[1973, 1792]	3243	[5158, 5159]	5265	[7070, 4006]	7287	[5343, 7985]
1222	[195, 2249]	3244	[5160, 5161]	5266	[4905, 7071]	7288	[6527, 2175]
1223	[2250, 2079]	3245	[5162, 5163]	5267	[3252, 7072]	7289	[7843, 7986]
1224	[181, 148]	3246	[3022, 5164]	5268	[7073, 1511]	7290	[2749, 2983]
1225	[2251, 2252]	3247	[5165, 5166]	5269	[6890, 7074]	7291	[3093, 7987]
1226	[1909, 2253]	3248	[5167, 5168]	5270	[3316, 7075]	7292	[6536, 6226]

1227	[2254, 2255]	3249	[3118, 2933]	5271	[4576, 1657]	7293	[7988, 6332]
1228	[2256, 1941]	3250	[5169, 2764]	5272	[4098, 471]	7294	[2536, 2335]
1229	[2257, 2258]	3251	[5170, 5171]	5273	[7076, 7077]	7295	[5940, 7950]
1230	[2259, 2260]	3252	[5045, 5172]	5274	[7078, 7079]	7296	[5339, 6182]
1231	[2261, 2262]	3253	[5173, 2077]	5275	[1314, 3234]	7297	[6145, 6497]
1232	[782, 2263]	3254	[5174, 5175]	5276	[7080, 4008]	7298	[6709, 3017]
1233	[2264, 2265]	3255	[1873, 5176]	5277	[7081, 4063]	7299	[3129, 2110]
1234	[780, 2266]	3256	[5177, 5178]	5278	[7082, 4548]	7300	[7989, 7990]
1235	[2267, 2268]	3257	[1940, 5179]	5279	[7083, 4188]	7301	[6711, 5760]
1236	[851, 241]	3258	[2840, 5180]	5280	[3703, 1411]	7302	[6324, 6124]
1237	[2269, 1870]	3259	[799, 5181]	5281	[1729, 1239]	7303	[581, 7991]
1238	[2200, 2270]	3260	[583, 5182]	5282	[7084, 1496]	7304	[7893, 5495]
1239	[2271, 2272]	3261	[5179, 5183]	5283	[3335, 3641]	7305	[2036, 6028]
1240	[2273, 2274]	3262	[5184, 5185]	5284	[7085, 3886]	7306	[5809, 2575]
1241	[2275, 2276]	3263	[5186, 5187]	5285	[7086, 7087]	7307	[5858, 2807]
1242	[2277, 2278]	3264	[5188, 5189]	5286	[7088, 4219]	7308	[2676, 6181]
1243	[2279, 2280]	3265	[5190, 5191]	5287	[7089, 4910]	7309	[6187, 2245]
1244	[2281, 2282]	3266	[5192, 5193]	5288	[7090, 5004]	7310	[7992, 7979]
1245	[2283, 2095]	3267	[5194, 5195]	5289	[1416, 4031]	7311	[6229, 7993]
1246	[2284, 2103]	3268	[5196, 5197]	5290	[7091, 4707]	7312	[6725, 3065]
1247	[2285, 2286]	3269	[2625, 2289]	5291	[7092, 4708]	7313	[1879, 7994]
1248	[2287, 2288]	3270	[5198, 5199]	5292	[3439, 4880]	7314	[7993, 7995]
1249	[2289, 2290]	3271	[5200, 3055]	5293	[4144, 7093]	7315	[2362, 6571]
1250	[2291, 2292]	3272	[5201, 5142]	5294	[298, 5002]	7316	[2911, 6061]
1251	[2293, 1906]	3273	[2860, 5202]	5295	[1541, 7094]	7317	[5528, 6040]
1252	[533, 1907]	3274	[5203, 3032]	5296	[4102, 7095]	7318	[6774, 6625]
1253	[2234, 2294]	3275	[5204, 5205]	5297	[3230, 7096]	7319	[5653, 7996]
1254	[2295, 2296]	3276	[1989, 686]	5298	[7097, 4742]	7320	[2559, 7926]
1255	[2297, 2298]	3277	[5206, 5207]	5299	[4897, 7098]	7321	[7997, 5998]
1256	[2299, 139]	3278	[607, 5208]	5300	[1177, 3545]	7322	[1977, 6629]
1257	[2300, 868]	3279	[5209, 5210]	5301	[6866, 4940]	7323	[2836, 6429]
1258	[2301, 2302]	3280	[5211, 5212]	5302	[1161, 1247]	7324	[831, 7998]
1259	[2303, 2304]	3281	[5213, 5214]	5303	[1752, 3904]	7325	[5138, 5941]
1260	[2305, 627]	3282	[5215, 5216]	5304	[4512, 7099]	7326	[5688, 2916]
1261	[2306, 2307]	3283	[5217, 5218]	5305	[4514, 7100]	7327	[757, 5738]
1262	[2308, 2309]	3284	[5219, 2150]	5306	[6878, 7101]	7328	[5801, 6643]
1263	[2310, 2311]	3285	[5220, 5221]	5307	[4013, 7102]	7329	[2562, 7999]
1264	[2312, 655]	3286	[5222, 562]	5308	[4884, 7103]	7330	[5264, 2770]
1265	[2313, 2314]	3287	[2742, 572]	5309	[7104, 7105]	7331	[6750, 8000]
1266	[2315, 1935]	3288	[3020, 5223]	5310	[3809, 7106]	7332	[6440, 2053]
1267	[2316, 2317]	3289	[2880, 5224]	5311	[94, 7107]	7333	[7986, 822]
1268	[2318, 2319]	3290	[5225, 5226]	5312	[7108, 3379]	7334	[6104, 8001]
1269	[2320, 1904]	3291	[5181, 5148]	5313	[7109, 1188]	7335	[6827, 8002]
1270	[2321, 2322]	3292	[897, 5227]	5314	[4015, 1407]	7336	[2852, 649]

1271	[2323, 2324]	3293	[5228, 5229]	5315	[3489, 4560]	7337	[5059, 8003]
1272	[2325, 2326]	3294	[5230, 5231]	5316	[7110, 7111]	7338	[7976, 5690]
1273	[2327, 2328]	3295	[1947, 2959]	5317	[4954, 103]	7339	[5905, 820]
1274	[2329, 2330]	3296	[5232, 5233]	5318	[3913, 7112]	7340	[2596, 6720]
1275	[2331, 600]	3297	[3106, 5234]	5319	[3876, 7113]	7341	[6773, 8004]
1276	[2332, 2333]	3298	[159, 5235]	5320	[4064, 6856]	7342	[7942, 5712]
1277	[2334, 223]	3299	[5236, 5237]	5321	[4034, 4911]	7343	[6171, 3062]
1278	[2335, 2336]	3300	[5224, 5238]	5322	[7114, 1039]	7344	[3035, 2528]
1279	[873, 750]	3301	[5239, 5240]	5323	[7115, 7116]	7345	[5307, 6328]
1280	[2337, 834]	3302	[5241, 5242]	5324	[467, 1747]	7346	[7956, 6472]
1281	[2338, 721]	3303	[215, 2743]	5325	[7117, 7118]	7347	[5948, 6559]
1282	[2339, 2340]	3304	[5243, 5244]	5326	[7119, 7120]	7348	[7994, 8005]
1283	[2341, 2089]	3305	[5245, 5047]	5327	[7121, 4727]	7349	[7995, 8006]
1284	[2342, 2343]	3306	[5246, 5247]	5328	[4255, 7122]	7350	[8002, 6503]
1285	[2344, 2345]	3307	[5248, 598]	5329	[3285, 7123]	7351	[6477, 6742]
1286	[1959, 2346]	3308	[5249, 5105]	5330	[7124, 3212]	7352	[6378, 6744]
1287	[2347, 2348]	3309	[5250, 5065]	5331	[7125, 7126]	7353	[5124, 2937]
1288	[2349, 2350]	3310	[5251, 188]	5332	[7127, 266]	7354	[5772, 8007]
1289	[2351, 2352]	3311	[5252, 5253]	5333	[404, 4149]	7355	[8008, 5156]
1290	[2353, 2354]	3312	[5254, 5255]	5334	[3874, 1761]	7356	[5713, 6009]
1291	[2355, 2356]	3313	[5256, 2064]	5335	[453, 6973]	7357	[7834, 5729]
1292	[2357, 2358]	3314	[5257, 5258]	5336	[7128, 1732]	7358	[6492, 6761]
1293	[2359, 2360]	3315	[5259, 11]	5337	[4384, 1032]	7359	[6029, 6121]
1294	[2361, 2362]	3316	[5260, 5261]	5338	[7129, 1533]	7360	[5444, 882]
1295	[2363, 2364]	3317	[5262, 2655]	5339	[7130, 4340]	7361	[199, 2557]
1296	[2365, 2366]	3318	[5263, 872]	5340	[7131, 4508]	7362	[6780, 907]
1297	[2367, 2368]	3319	[3027, 5264]	5341	[7132, 4860]	7363	[6659, 6484]
1298	[784, 2369]	3320	[637, 5265]	5342	[7133, 7134]	7364	[2525, 6685]
1299	[2370, 634]	3321	[5266, 5267]	5343	[7135, 7136]	7365	[6115, 546]
1300	[2371, 249]	3322	[5268, 5039]	5344	[4091, 7137]	7366	[5212, 7833]
1301	[2372, 2373]	3323	[5269, 5270]	5345	[4654, 7138]	7367	[2995, 6781]
1302	[2124, 2241]	3324	[2757, 5271]	5346	[7139, 3390]	7368	[5918, 6602]
1303	[2374, 2375]	3325	[5272, 568]	5347	[4186, 7140]	7369	[6705, 5377]
1304	[2376, 2377]	3326	[689, 2723]	5348	[4846, 69]	7370	[6236, 8009]
1305	[2378, 2379]	3327	[5110, 5273]	5349	[374, 7141]	7371	[8010, 6731]
1306	[2380, 1819]	3328	[5274, 1805]	5350	[7142, 6934]	7372	[5673, 6151]
1307	[2381, 2382]	3329	[5141, 2148]	5351	[4804, 3413]	7373	[2592, 2257]
1308	[2383, 625]	3330	[3064, 5275]	5352	[7143, 7144]	7374	[5912, 6741]
1309	[2384, 2385]	3331	[5207, 5276]	5353	[7145, 6886]	7375	[6064, 7932]
1310	[2386, 1925]	3332	[5277, 2372]	5354	[7146, 3348]	7376	[6460, 8011]
1311	[2202, 2387]	3333	[5278, 5279]	5355	[4424, 7147]	7377	[6241, 6493]
1312	[2388, 2389]	3334	[238, 2631]	5356	[3528, 6940]	7378	[8012, 2141]
1313	[2390, 2391]	3335	[5280, 735]	5357	[3329, 4698]	7379	[5168, 5719]
1314	[2392, 2393]	3336	[5281, 5282]	5358	[7148, 7149]	7380	[6051, 8013]

1315	[219, 623]	3337	[5283, 2091]	5359	[7150, 7151]	7381	[6409, 5162]
1316	[2394, 2395]	3338	[5284, 2251]	5360	[7152, 7153]	7382	[6766, 184]
1317	[2104, 2396]	3339	[2981, 5285]	5361	[4210, 4921]	7383	[695, 7918]
1318	[2397, 2398]	3340	[2776, 5286]	5362	[3188, 7154]	7384	[6697, 6414]
1319	[2399, 2400]	3341	[2684, 5287]	5363	[1701, 479]	7385	[8014, 7930]
1320	[2401, 2402]	3342	[5288, 5289]	5364	[7155, 1707]	7386	[8015, 2715]
1321	[545, 2403]	3343	[5290, 5291]	5365	[7156, 1433]	7387	[715, 6034]
1322	[2404, 2405]	3344	[5292, 5283]	5366	[1296, 3486]	7388	[6806, 6735]
1323	[2406, 2407]	3345	[5293, 5165]	5367	[7157, 7158]	7389	[3048, 862]
1324	[2408, 2409]	3346	[2576, 3123]	5368	[1478, 1655]	7390	[6717, 7943]
1325	[2410, 2411]	3347	[5294, 3125]	5369	[4787, 4287]	7391	[7969, 6588]
1326	[2412, 2413]	3348	[5295, 2521]	5370	[7159, 1174]	7392	[685, 7997]
1327	[2414, 700]	3349	[5296, 5297]	5371	[4649, 7157]	7393	[611, 2633]
1328	[2260, 178]	3350	[5298, 779]	5372	[4933, 3369]	7394	[6702, 7977]
1329	[2415, 2416]	3351	[5235, 5299]	5373	[7046, 1290]	7395	[7906, 8016]
1330	[2417, 2418]	3352	[5300, 5301]	5374	[7160, 3249]	7396	[5197, 6459]
1331	[2419, 2420]	3353	[5302, 5303]	5375	[4461, 4538]	7397	[7964, 5741]
1332	[933, 2145]	3354	[5304, 5305]	5376	[4816, 6959]	7398	[2173, 6382]
1333	[2421, 2422]	3355	[5306, 5307]	5377	[3165, 7161]	7399	[5860, 2754]
1334	[2423, 2378]	3356	[5308, 5309]	5378	[7162, 3883]	7400	[6005, 1863]
1335	[8, 2424]	3357	[5310, 5311]	5379	[7163, 7164]	7401	[7891, 5484]
1336	[2425, 2426]	3358	[5312, 5313]	5380	[3583, 7165]	7402	[8017, 6278]
1337	[2427, 2428]	3359	[2058, 5314]	5381	[4681, 7166]	7403	[5732, 2601]
1338	[2352, 2429]	3360	[5315, 5316]	5382	[1630, 7167]	7404	[7948, 6190]
1339	[2430, 2431]	3361	[5317, 647]	5383	[4315, 1382]	7405	[5371, 5472]
1340	[2432, 2433]	3362	[5318, 5319]	5384	[3966, 29]	7406	[808, 2572]
1341	[2434, 2435]	3363	[707, 5320]	5385	[7168, 7169]	7407	[2280, 8018]
1342	[2436, 2437]	3364	[5321, 5203]	5386	[7170, 7171]	7408	[5970, 6823]
1343	[764, 2436]	3365	[5322, 5323]	5387	[7172, 4212]	7409	[6560, 7984]
1344	[1855, 2438]	3366	[1889, 206]	5388	[7173, 4233]	7410	[2578, 7904]
1345	[2439, 2440]	3367	[5324, 5325]	5389	[7174, 1027]	7411	[2387, 7953]
1346	[2441, 2442]	3368	[5326, 5327]	5390	[7175, 7121]	7412	[5563, 1820]
1347	[2443, 2444]	3369	[2253, 2707]	5391	[7176, 1073]	7413	[6653, 5496]
1348	[2445, 2446]	3370	[2745, 5328]	5392	[7177, 7178]	7414	[8019, 5425]
1349	[2447, 1812]	3371	[2832, 5329]	5393	[3664, 7135]	7415	[693, 2331]
1350	[2448, 2449]	3372	[5330, 5331]	5394	[4108, 7179]	7416	[7879, 7957]
1351	[2228, 2450]	3373	[5332, 2945]	5395	[1209, 4904]	7417	[2825, 690]
1352	[2451, 2452]	3374	[5333, 2434]	5396	[7180, 3399]	7418	[5476, 770]
1353	[2453, 2454]	3375	[5334, 942]	5397	[4510, 3655]	7419	[7832, 6290]
1354	[2455, 2456]	3376	[5335, 2752]	5398	[1456, 3709]	7420	[577, 6141]
1355	[2457, 2458]	3377	[5336, 2687]	5399	[7181, 3405]	7421	[6813, 8020]
1356	[2146, 1834]	3378	[5337, 2201]	5400	[7032, 3240]	7422	[7856, 5160]
1357	[1814, 2299]	3379	[5338, 5339]	5401	[3817, 7182]	7423	[2336, 2666]
1358	[2459, 2460]	3380	[2102, 5340]	5402	[4330, 7183]	7424	[7931, 5699]

1359	[2461, 670]	3381	[3052, 5341]	5403	[7184, 7185]	7425	[7928, 5046]
1360	[2462, 2463]	3382	[5342, 5343]	5404	[3433, 7186]	7426	[6327, 5594]
1361	[2464, 739]	3383	[555, 5344]	5405	[7187, 3349]	7427	[8021, 8022]
1362	[2465, 2466]	3384	[5345, 5346]	5406	[7188, 7189]	7428	[550, 8023]
1363	[2467, 2468]	3385	[5347, 5348]	5407	[4977, 494]	7429	[5104, 6411]
1364	[603, 2469]	3386	[5349, 5070]	5408	[1083, 7190]	7430	[2583, 5700]
1365	[2470, 2471]	3387	[5350, 5351]	5409	[3962, 7191]	7431	[6595, 6626]
1366	[609, 2472]	3388	[5352, 5353]	5410	[7192, 7193]	7432	[7882, 5725]
1367	[2473, 2474]	3389	[5354, 840]	5411	[7194, 4452]	7433	[5493, 8024]
1368	[2475, 2025]	3390	[5355, 5356]	5412	[4140, 432]	7434	[2758, 2501]
1369	[2476, 2477]	3391	[5357, 5358]	5413	[4580, 1537]	7435	[2446, 2386]
1370	[2478, 2479]	3392	[5271, 5359]	5414	[3279, 7168]	7436	[7911, 696]
1371	[2480, 2481]	3393	[5360, 5361]	5415	[4169, 3734]	7437	[2634, 2043]
1372	[2482, 2483]	3394	[1831, 5362]	5416	[4016, 7195]	7438	[7914, 6793]
1373	[2484, 2485]	3395	[5363, 5364]	5417	[7196, 1303]	7439	[6256, 2650]
1374	[2486, 2487]	3396	[1808, 5365]	5418	[7197, 3443]	7440	[8011, 8025]
1375	[2488, 2489]	3397	[5366, 1939]	5419	[4863, 81]	7441	[6321, 5403]
1376	[2490, 2491]	3398	[5367, 5368]	5420	[7000, 7198]	7442	[7924, 8026]
1377	[2178, 2492]	3399	[2061, 5369]	5421	[3894, 7199]	7443	[2184, 7988]
1378	[2493, 2455]	3400	[2032, 2795]	5422	[4827, 4807]	7444	[667, 5025]
1379	[2494, 2457]	3401	[1885, 5370]	5423	[1785, 7200]	7445	[6025, 704]
1380	[2495, 2496]	3402	[2984, 5371]	5424	[6876, 7201]	7446	[633, 6504]
1381	[915, 2303]	3403	[5372, 5373]	5425	[7105, 3949]	7447	[7934, 6724]
1382	[2497, 2498]	3404	[5374, 1854]	5426	[7202, 4600]	7448	[6216, 5194]
1383	[2499, 2500]	3405	[5375, 5376]	5427	[7203, 7204]	7449	[8027, 8028]
1384	[2501, 2502]	3406	[5377, 5378]	5428	[3352, 7205]	7450	[5136, 522]
1385	[2503, 2408]	3407	[2504, 5379]	5429	[3924, 107]	7451	[2688, 6413]
1386	[656, 2504]	3408	[5380, 5381]	5430	[1029, 4173]	7452	[6644, 7960]
1387	[2505, 2506]	3409	[953, 5382]	5431	[1283, 7206]	7453	[6756, 7945]
1388	[2507, 2295]	3410	[2953, 5383]	5432	[1774, 7160]	7454	[7959, 6093]
1389	[2508, 934]	3411	[2847, 5384]	5433	[7141, 1668]	7455	[5127, 2014]
1390	[2509, 2510]	3412	[5385, 5386]	5434	[7207, 7208]	7456	[7968, 5576]
1391	[2511, 2512]	3413	[5387, 5388]	5435	[4765, 7209]	7457	[5373, 2087]
1392	[2513, 2514]	3414	[2767, 5389]	5436	[3826, 4968]	7458	[2198, 5678]
1393	[2515, 2516]	3415	[5390, 5326]	5437	[4321, 1722]	7459	[5706, 8029]
1394	[2517, 2518]	3416	[5391, 5177]	5438	[7210, 7211]	7460	[6245, 6513]
1395	[2519, 2520]	3417	[5392, 250]	5439	[4039, 7212]	7461	[2028, 6099]
1396	[2521, 1872]	3418	[5393, 5394]	5440	[4749, 7054]	7462	[2009, 2591]
1397	[2522, 2523]	3419	[3009, 5395]	5441	[4941, 7090]	7463	[6656, 5765]
1398	[2524, 2525]	3420	[5396, 5397]	5442	[4074, 3245]	7464	[7946, 6392]
1399	[2526, 2527]	3421	[5398, 5399]	5443	[4122, 4943]	7465	[8030, 8010]
1400	[2528, 2529]	3422	[5381, 5400]	5444	[6970, 1663]	7466	[244, 5571]
1401	[2530, 2531]	3423	[5401, 5402]	5445	[7213, 3840]	7467	[2153, 6264]
1402	[2532, 2533]	3424	[5403, 2968]	5446	[6969, 4503]	7468	[5997, 1798]

1403	[797, 2534]	3425	[5404, 5405]	5447	[7026, 361]	7469	[709, 8031]
1404	[2535, 2536]	3426	[5406, 1933]	5448	[5003, 7214]	7470	[6557, 6696]
1405	[2537, 2538]	3427	[5407, 5408]	5449	[7215, 3764]	7471	[1971, 2195]
1406	[2539, 2540]	3428	[2740, 2062]	5450	[1185, 7216]	7472	[6647, 2181]
1407	[2541, 2542]	3429	[5409, 5410]	5451	[4608, 7217]	7473	[5384, 6362]
1408	[2543, 2544]	3430	[145, 2508]	5452	[4357, 7218]	7474	[6721, 5935]
1409	[2, 2545]	3431	[1791, 2448]	5453	[7219, 1672]	7475	[5057, 2844]
1410	[2546, 2547]	3432	[5411, 5412]	5454	[7220, 3353]	7476	[5611, 5342]
1411	[2548, 2549]	3433	[2094, 5413]	5455	[1695, 7221]	7477	[8032, 6451]
1412	[2550, 2551]	3434	[5414, 5415]	5456	[7222, 4469]	7478	[5731, 2927]
1413	[2552, 2553]	3435	[5416, 5417]	5457	[1664, 4609]	7479	[6551, 7852]
1414	[2554, 890]	3436	[5234, 2994]	5458	[7223, 7224]	7480	[569, 8033]
1415	[2555, 2556]	3437	[5418, 664]	5459	[7225, 7084]	7481	[6592, 5158]
1416	[2557, 914]	3438	[193, 5419]	5460	[1777, 7226]	7482	[5787, 6829]
1417	[2558, 2559]	3439	[5189, 5420]	5461	[4635, 4810]	7483	[6317, 5251]
1418	[2560, 913]	3440	[5421, 5422]	5462	[3658, 7227]	7484	[8034, 8035]
1419	[2561, 2562]	3441	[5423, 5424]	5463	[7043, 4425]	7485	[5945, 5529]
1420	[2563, 2564]	3442	[5425, 3025]	5464	[4322, 3401]	7486	[8036, 7908]
1421	[2368, 2565]	3443	[5426, 1921]	5465	[7228, 4545]	7487	[7897, 2384]
1422	[2566, 2461]	3444	[5238, 3023]	5466	[3743, 7229]	7488	[7898, 6817]
1423	[2567, 2568]	3445	[5427, 5428]	5467	[4371, 1184]	7489	[5329, 6716]
1424	[2569, 2570]	3446	[5429, 5430]	5468	[4534, 1594]	7490	[863, 6488]
1425	[2571, 2261]	3447	[5431, 5432]	5469	[1304, 4166]	7491	[2782, 8037]
1426	[2572, 512]	3448	[5433, 2367]	5470	[1332, 1162]	7492	[6198, 7878]
1427	[2573, 2574]	3449	[5434, 5435]	5471	[4844, 7230]	7493	[7876, 516]
1428	[2575, 2576]	3450	[5436, 3084]	5472	[4848, 7231]	7494	[5759, 6770]
1429	[2577, 2578]	3451	[5437, 5438]	5473	[1476, 1286]	7495	[7962, 6449]
1430	[2579, 2138]	3452	[2358, 5439]	5474	[3256, 6924]	7496	[6810, 3113]
1431	[2580, 2581]	3453	[5440, 2179]	5475	[7232, 7233]	7497	[8018, 3002]
1432	[2582, 2583]	3454	[5441, 2170]	5476	[7234, 7235]	7498	[7996, 1968]
1433	[2584, 2585]	3455	[5442, 2554]	5477	[7065, 1106]	7499	[8038, 6333]
1434	[2586, 2004]	3456	[5443, 5444]	5478	[7236, 4481]	7500	[6664, 5961]
1435	[2587, 2588]	3457	[5445, 5446]	5479	[398, 3654]	7501	[6572, 5014]
1436	[2589, 2590]	3458	[5447, 896]	5480	[7237, 7238]	7502	[7987, 1945]
1437	[2591, 2592]	3459	[5448, 5449]	5481	[3197, 7239]	7503	[7912, 6765]
1438	[2593, 504]	3460	[5450, 5451]	5482	[4982, 1483]	7504	[2113, 6575]
1439	[2594, 2595]	3461	[5452, 5453]	5483	[7201, 4139]	7505	[1987, 6067]
1440	[2373, 2596]	3462	[5454, 1915]	5484	[7240, 3398]	7506	[5026, 8039]
1441	[2597, 2598]	3463	[5455, 5401]	5485	[1529, 3427]	7507	[3066, 5186]
1442	[2599, 2600]	3464	[5456, 5345]	5486	[7071, 7241]	7508	[2570, 6431]
1443	[563, 2555]	3465	[5457, 5458]	5487	[7072, 4613]	7509	[5301, 8040]
1444	[2601, 2134]	3466	[5459, 5387]	5488	[1605, 3430]	7510	[5871, 5924]
1445	[2602, 2603]	3467	[5460, 5461]	5489	[7242, 4693]	7511	[6581, 5288]
1446	[2604, 2605]	3468	[5313, 5462]	5490	[3645, 975]	7512	[2122, 6158]

1447	[2047, 2606]	3469	[5233, 5463]	5491	[974, 3822]	7513	[5981, 6822]
1448	[2044, 1978]	3470	[875, 5464]	5492	[7243, 7244]	7514	[8041, 7951]
1449	[2607, 2608]	3471	[2619, 5450]	5493	[7245, 4550]	7515	[2708, 6558]
1450	[2609, 2610]	3472	[5465, 5466]	5494	[7246, 4840]	7516	[2939, 1896]
1451	[2611, 2612]	3473	[1997, 5467]	5495	[7008, 383]	7517	[5227, 5627]
1452	[2613, 1946]	3474	[5468, 5469]	5496	[3260, 3311]	7518	[6552, 852]
1453	[2614, 2615]	3475	[5470, 604]	5497	[7247, 3293]	7519	[1868, 5088]
1454	[2616, 2401]	3476	[2131, 5471]	5498	[1621, 7248]	7520	[7938, 5290]
1455	[835, 2617]	3477	[5472, 5473]	5499	[1622, 4368]	7521	[2641, 7921]
1456	[2618, 2619]	3478	[2954, 5474]	5500	[4932, 4555]	7522	[2502, 7888]
1457	[2620, 182]	3479	[5475, 5476]	5501	[1401, 7249]	7523	[2026, 2815]
1458	[2621, 2622]	3480	[5477, 2222]	5502	[7250, 297]	7524	[7849, 838]
1459	[2623, 2624]	3481	[128, 2869]	5503	[7251, 6889]	7525	[7958, 5870]
1460	[197, 2625]	3482	[5478, 5479]	5504	[3720, 303]	7526	[8026, 6523]
1461	[2366, 2139]	3483	[5480, 5335]	5505	[3722, 7252]	7527	[7925, 2876]
1462	[2626, 1898]	3484	[1975, 5481]	5506	[7185, 4996]	7528	[8016, 6261]
1463	[2627, 2628]	3485	[5482, 5483]	5507	[4778, 4616]	7529	[6524, 6687]
1464	[2629, 2630]	3486	[5484, 1957]	5508	[4214, 1665]	7530	[6308, 5140]
1465	[2631, 2632]	3487	[5485, 1958]	5509	[7253, 1052]	7531	[7854, 2839]
1466	[2633, 2634]	3488	[5486, 5487]	5510	[7254, 7255]	7532	[3071, 6349]
1467	[2635, 2636]	3489	[2798, 5488]	5511	[4038, 4195]	7533	[740, 5404]
1468	[2637, 2638]	3490	[5489, 2160]	5512	[7061, 7256]	7534	[6470, 2186]
1469	[2639, 2320]	3491	[2129, 5490]	5513	[384, 7257]	7535	[6384, 5485]
1470	[2640, 2641]	3492	[5491, 5263]	5514	[7258, 3387]	7536	[663, 8042]
1471	[2642, 2643]	3493	[5492, 5493]	5515	[354, 7259]	7537	[8043, 2210]
1472	[2644, 2645]	3494	[58, 5494]	5516	[7260, 7261]	7538	[6621, 5245]
1473	[2646, 2647]	3495	[5495, 192]	5517	[4952, 7262]	7539	[6416, 2100]
1474	[2648, 2649]	3496	[5496, 5497]	5518	[4673, 997]	7540	[5778, 6818]
1475	[2650, 2511]	3497	[5498, 5499]	5519	[4798, 7263]	7541	[521, 7875]
1476	[2651, 2652]	3498	[203, 5500]	5520	[126, 3793]	7542	[6090, 2793]
1477	[2653, 2654]	3499	[5501, 5502]	5521	[7264, 4075]	7543	[7830, 5017]
1478	[2655, 2656]	3500	[5503, 5465]	5522	[4657, 7265]	7544	[1852, 6405]
1479	[32, 2657]	3501	[5504, 5505]	5523	[7266, 7267]	7545	[2346, 8027]
1480	[2658, 2659]	3502	[5506, 816]	5524	[7268, 6881]	7546	[2278, 5555]
1481	[2144, 2660]	3503	[5438, 5507]	5525	[1357, 1255]	7547	[6379, 6303]
1482	[2661, 2662]	3504	[143, 5508]	5526	[3628, 4777]	7548	[7884, 8044]
1483	[2663, 2664]	3505	[5509, 5510]	5527	[4889, 4017]	7549	[6826, 1794]
1484	[867, 2665]	3506	[5511, 5512]	5528	[7269, 7192]	7550	[5376, 5137]
1485	[2666, 2152]	3507	[5513, 578]	5529	[3149, 7270]	7551	[6487, 756]
1486	[2667, 2668]	3508	[5514, 5515]	5530	[7271, 7272]	7552	[5432, 6342]
1487	[2669, 2670]	3509	[228, 2191]	5531	[4717, 1178]	7553	[559, 928]
1488	[2671, 2672]	3510	[5516, 5517]	5532	[1377, 7273]	7554	[2721, 2886]
1489	[2673, 2674]	3511	[5518, 5519]	5533	[3909, 7274]	7555	[7982, 6370]
1490	[2675, 2676]	3512	[5520, 39]	5534	[4474, 3773]	7556	[7978, 2677]

1491	[2677, 2678]	3513	[5521, 5392]	5535	[1724, 7275]	7557	[7983, 5895]
1492	[2679, 2680]	3514	[5522, 5020]	5536	[1071, 7276]	7558	[6434, 7941]
1493	[2681, 2682]	3515	[5523, 5524]	5537	[3370, 1509]	7559	[679, 5468]
1494	[2683, 2684]	3516	[2211, 5525]	5538	[7277, 6853]	7560	[7881, 7900]
1495	[2685, 2686]	3517	[5526, 142]	5539	[7278, 7279]	7561	[6058, 5844]
1496	[2687, 2688]	3518	[5527, 2218]	5540	[1002, 7280]	7562	[5907, 2919]
1497	[2689, 2690]	3519	[2762, 5528]	5541	[4928, 7188]	7563	[6367, 6745]
1498	[2691, 2692]	3520	[5529, 5530]	5542	[4191, 3339]	7564	[2849, 5256]
1499	[2693, 2694]	3521	[5531, 5532]	5543	[7106, 4026]	7565	[2694, 1882]
1500	[2340, 858]	3522	[5533, 5534]	5544	[7281, 7282]	7566	[6526, 5190]
1501	[2695, 2143]	3523	[5535, 5536]	5545	[7283, 4337]	7567	[6346, 6797]
1502	[2440, 2696]	3524	[1926, 5537]	5546	[7284, 4136]	7568	[8007, 6737]
1503	[2697, 2698]	3525	[5538, 5196]	5547	[7285, 7286]	7569	[8045, 3028]
1504	[716, 2699]	3526	[5389, 532]	5548	[3871, 7092]	7570	[173, 6473]
1505	[2030, 2700]	3527	[5539, 5540]	5549	[4985, 7287]	7571	[6307, 954]
1506	[2701, 2702]	3528	[5316, 3078]	5550	[7288, 1504]	7572	[7955, 7895]
1507	[2703, 2704]	3529	[5541, 5170]	5551	[472, 4364]	7573	[6518, 8017]
1508	[2705, 2706]	3530	[5159, 676]	5552	[6887, 7289]	7574	[6782, 8008]
1509	[2707, 2708]	3531	[149, 5542]	5553	[7290, 4356]	7575	[6377, 916]
1510	[2709, 2710]	3532	[5543, 2651]	5554	[6927, 6929]	7576	[6347, 2392]
1511	[2711, 2712]	3533	[5544, 5545]	5555	[7291, 7292]	7577	[5718, 6785]
1512	[2713, 2714]	3534	[5353, 5546]	5556	[68, 287]	7578	[6767, 7974]
1513	[856, 2081]	3535	[2483, 5547]	5557	[3752, 7050]	7579	[8028, 2283]
1514	[2715, 639]	3536	[5548, 2443]	5558	[1624, 7293]	7580	[7855, 2447]
1515	[2716, 2580]	3537	[5369, 2237]	5559	[102, 3425]	7581	[7916, 33]
1516	[2717, 2718]	3538	[3104, 5549]	5560	[7294, 7295]	7582	[7971, 3120]
1517	[2719, 2720]	3539	[5550, 5236]	5561	[1715, 7296]	7583	[2450, 661]
1518	[1804, 2721]	3540	[5551, 5440]	5562	[7297, 7298]	7584	[5661, 791]
1519	[2722, 958]	3541	[5552, 5553]	5563	[7299, 1141]	7585	[2928, 8034]
1520	[2723, 2724]	3542	[5554, 5111]	5564	[7098, 6915]	7586	[6325, 8036]
1521	[2725, 2726]	3543	[5555, 5429]	5565	[7300, 7301]	7587	[5048, 8046]
1522	[2727, 2728]	3544	[5556, 144]	5566	[1647, 7302]	7588	[6289, 1890]
1523	[2729, 2730]	3545	[2169, 5557]	5567	[3678, 1007]	7589	[6771, 5243]
1524	[2731, 2732]	3546	[5558, 5559]	5568	[302, 3589]	7590	[8047, 6298]
1525	[2733, 2734]	3547	[5560, 5561]	5569	[7303, 7304]	7591	[6209, 7949]
1526	[2735, 2736]	3548	[5106, 2497]	5570	[7305, 4984]	7592	[6110, 6318]
1527	[2498, 2737]	3549	[5562, 5563]	5571	[482, 4334]	7593	[1922, 5406]
1528	[2400, 2738]	3550	[5564, 2059]	5572	[4341, 3587]	7594	[736, 5077]
1529	[2739, 2740]	3551	[5565, 5566]	5573	[24, 4264]	7595	[7889, 2291]
1530	[2741, 2742]	3552	[5567, 5113]	5574	[4975, 4058]	7596	[7845, 6542]
1531	[2743, 2744]	3553	[5568, 1992]	5575	[7306, 1427]	7597	[3018, 8041]
1532	[2326, 2745]	3554	[5569, 5570]	5576	[7307, 7308]	7598	[7980, 6476]
1533	[2746, 2747]	3555	[5571, 5572]	5577	[485, 464]	7599	[6531, 2903]
1534	[2748, 2749]	3556	[2680, 210]	5578	[6925, 4185]	7600	[6369, 218]

1535	[2750, 2751]	3557	[5573, 37]	5579	[6928, 7309]	7601	[6129, 584]
1536	[2752, 2753]	3558	[5574, 2620]	5580	[4590, 7215]	7602	[5223, 2239]
1537	[2754, 2755]	3559	[5575, 744]	5581	[1079, 4312]	7603	[6828, 8019]
1538	[2756, 2757]	3560	[5576, 5577]	5582	[7310, 6907]	7604	[2065, 2018]
1539	[734, 2758]	3561	[5108, 5578]	5583	[7311, 7312]	7605	[2659, 5859]
1540	[2759, 2760]	3562	[5112, 5579]	5584	[376, 4237]	7606	[8048, 2689]
1541	[2761, 2762]	3563	[5149, 5445]	5585	[7313, 7314]	7607	[6078, 5672]
1542	[2763, 2227]	3564	[5580, 5448]	5586	[1424, 4650]	7608	[3033, 8049]
1543	[2764, 2765]	3565	[5581, 5442]	5587	[3136, 3927]	7609	[6638, 6788]
1544	[2766, 2327]	3566	[5072, 2597]	5588	[390, 6965]	7610	[6812, 6719]
1545	[652, 2767]	3567	[5582, 2901]	5589	[7315, 7316]	7611	[2628, 7901]
1546	[2768, 2769]	3568	[5583, 5584]	5590	[7317, 4291]	7612	[6556, 6517]
1547	[881, 2351]	3569	[5585, 5586]	5591	[3487, 1054]	7613	[1924, 8050]
1548	[2770, 2771]	3570	[1789, 5587]	5592	[3310, 93]	7614	[6752, 6607]
1549	[132, 2772]	3571	[5122, 5588]	5593	[1454, 6961]	7615	[6088, 5501]
1550	[2773, 2774]	3572	[687, 2988]	5594	[1112, 422]	7616	[8051, 6758]
1551	[2775, 2776]	3573	[5589, 5414]	5595	[7318, 4699]	7617	[2048, 2972]
1552	[2777, 2778]	3574	[5590, 2503]	5596	[4290, 1686]	7618	[6614, 8052]
1553	[2779, 2780]	3575	[1999, 5591]	5597	[6921, 7319]	7619	[6201, 7929]
1554	[2781, 2782]	3576	[5497, 1880]	5598	[3372, 7109]	7620	[6447, 7967]
1555	[2783, 2784]	3577	[2976, 43]	5599	[3397, 1102]	7621	[5797, 7966]
1556	[2785, 2786]	3578	[5592, 45]	5600	[7045, 6897]	7622	[2270, 5232]
1557	[2787, 2788]	3579	[5323, 5593]	5601	[4781, 4296]	7623	[8053, 6576]
1558	[2789, 2790]	3580	[2452, 2560]	5602	[294, 7320]	7624	[7999, 6109]
1559	[2791, 2792]	3581	[5594, 5595]	5603	[7321, 4927]	7625	[6203, 5841]
1560	[2793, 2794]	3582	[2588, 5596]	5604	[4659, 7322]	7626	[211, 6627]
1561	[2795, 2796]	3583	[5597, 1823]	5605	[7198, 7323]	7627	[7862, 6637]
1562	[2797, 2798]	3584	[5598, 5599]	5606	[7324, 1461]	7628	[7860, 8054]
1563	[2799, 2800]	3585	[5600, 2711]	5607	[4960, 7325]	7629	[6056, 5154]
1564	[2801, 2802]	3586	[5601, 2539]	5608	[7326, 7327]	7630	[5742, 6249]
1565	[2803, 2526]	3587	[2468, 5602]	5609	[7328, 7329]	7631	[8009, 758]
1566	[2804, 2805]	3588	[5603, 2039]	5610	[3519, 7330]	7632	[7935, 137]
1567	[2806, 2380]	3589	[592, 1929]	5611	[7331, 993]	7633	[2324, 6069]
1568	[2807, 2808]	3590	[5604, 5605]	5612	[7332, 7247]	7634	[6669, 7970]
1569	[2809, 2810]	3591	[5606, 5607]	5613	[7333, 424]	7635	[5011, 5686]
1570	[234, 2224]	3592	[5608, 2746]	5614	[7075, 3187]	7636	[7913, 7886]
1571	[2811, 2812]	3593	[2595, 5609]	5615	[6836, 4271]	7637	[6297, 5864]
1572	[2083, 2813]	3594	[5610, 5611]	5616	[7334, 7335]	7638	[2424, 6301]
1573	[671, 2814]	3595	[2674, 5533]	5617	[7336, 7337]	7639	[2248, 620]
1574	[2815, 2816]	3596	[893, 1847]	5618	[3206, 6838]	7640	[6715, 8055]
1575	[2817, 2818]	3597	[5612, 5613]	5619	[4813, 4799]	7641	[8025, 6334]
1576	[2819, 2820]	3598	[5614, 2826]	5620	[7338, 986]	7642	[8050, 7857]
1577	[2821, 1860]	3599	[5615, 5616]	5621	[4179, 1568]	7643	[6521, 8056]
1578	[2822, 2415]	3600	[5617, 2117]	5622	[4189, 1570]	7644	[2171, 7937]

1579	[2823, 2824]	3601	[5618, 5619]	5623	[3237, 4421]	7645	[7867, 6469]
1580	[2142, 2825]	3602	[5620, 2264]	5624	[4675, 1288]	7646	[8022, 2445]
1581	[2826, 1821]	3603	[5621, 5622]	5625	[7337, 7339]	7647	[8023, 6654]
1582	[2827, 2828]	3604	[5530, 5623]	5626	[3461, 7340]	7648	[5829, 6833]
1583	[2829, 2830]	3605	[5163, 641]	5627	[1085, 319]	7649	[7990, 5147]
1584	[2831, 2832]	3606	[5624, 1908]	5628	[7272, 1750]	7650	[6700, 2484]
1585	[2833, 2834]	3607	[5625, 5626]	5629	[1215, 1751]	7651	[6582, 6275]
1586	[2835, 2836]	3608	[2868, 2914]	5630	[4873, 7341]	7652	[6784, 2016]
1587	[2837, 2838]	3609	[5627, 5492]	5631	[4000, 4320]	7653	[6312, 2537]
1588	[2839, 2840]	3610	[5628, 5629]	5632	[4648, 4336]	7654	[7846, 2397]
1589	[2841, 2842]	3611	[774, 5367]	5633	[1250, 7342]	7655	[62, 216]
1590	[1841, 2843]	3612	[5630, 5631]	5634	[7343, 7344]	7656	[8057, 5803]
1591	[2844, 2845]	3613	[5632, 2701]	5635	[4018, 351]	7657	[7853, 5751]
1592	[2846, 2847]	3614	[5633, 5634]	5636	[1597, 1060]	7658	[6619, 6326]
1593	[2848, 2849]	3615	[5631, 5635]	5637	[7345, 4308]	7659	[6294, 225]
1594	[1871, 2850]	3616	[5636, 2119]	5638	[3395, 6953]	7660	[6274, 6020]
1595	[2851, 2852]	3617	[2734, 5637]	5639	[4057, 7089]	7661	[6577, 6546]
1596	[2853, 1966]	3618	[189, 5638]	5640	[1508, 7220]	7662	[6296, 5355]
1597	[2854, 2855]	3619	[869, 55]	5641	[3607, 7076]	7663	[8005, 5044]
1598	[2856, 2857]	3620	[5639, 3100]	5642	[7346, 7225]	7664	[5202, 2315]
1599	[2858, 146]	3621	[5043, 5640]	5643	[7347, 4582]	7665	[8020, 8058]
1600	[2859, 2860]	3622	[5641, 1990]	5644	[6954, 1235]	7666	[6439, 7947]
1601	[2861, 2862]	3623	[5642, 5516]	5645	[7348, 7349]	7667	[5923, 2301]
1602	[2728, 2863]	3624	[42, 5643]	5646	[7350, 3514]	7668	[5519, 6703]
1603	[2864, 2865]	3625	[5134, 5644]	5647	[1265, 3214]	7669	[8056, 6798]
1604	[821, 1827]	3626	[2354, 2829]	5648	[7351, 4831]	7670	[6475, 6049]
1605	[917, 2866]	3627	[2649, 5225]	5649	[7352, 4833]	7671	[2935, 5812]
1606	[246, 708]	3628	[5319, 3044]	5650	[7353, 4254]	7672	[8037, 5322]
1607	[2867, 2868]	3629	[877, 5608]	5651	[4592, 7354]	7673	[2272, 5318]
1608	[2869, 2332]	3630	[5645, 5646]	5652	[3254, 7245]	7674	[8044, 499]
1609	[2870, 2871]	3631	[5647, 168]	5653	[7355, 7243]	7675	[7887, 7975]
1610	[2872, 2873]	3632	[5648, 5649]	5654	[3269, 4696]	7676	[6422, 5278]
1611	[2874, 2875]	3633	[5082, 5650]	5655	[3156, 4993]	7677	[6550, 6593]
1612	[2876, 2877]	3634	[705, 5651]	5656	[7356, 7357]	7678	[887, 3007]
1613	[2878, 2879]	3635	[5652, 5653]	5657	[6916, 4653]	7679	[755, 1800]
1614	[2286, 2880]	3636	[5654, 2587]	5658	[7358, 7359]	7680	[8059, 8060]
1615	[2540, 2066]	3637	[5655, 5099]	5659	[3517, 7360]	7681	[6587, 6586]
1616	[2881, 2882]	3638	[5656, 5657]	5660	[7361, 1415]	7682	[2050, 7981]
1617	[2883, 2884]	3639	[5191, 5658]	5661	[7362, 7363]	7683	[6193, 5061]
1618	[2098, 2885]	3640	[5659, 5639]	5662	[4762, 490]	7684	[1850, 7873]
1619	[2886, 2887]	3641	[5660, 737]	5663	[7042, 7025]	7685	[2474, 8061]
1620	[2888, 2889]	3642	[5261, 5661]	5664	[7079, 7364]	7686	[8046, 6684]
1621	[2890, 2891]	3643	[5662, 5663]	5665	[265, 3879]	7687	[2686, 6655]
1622	[2892, 2893]	3644	[5664, 5213]	5666	[7365, 3967]	7688	[6509, 7963]

1623	[2894, 2231]	3645	[2456, 1817]	5667	[7171, 3845]	7689	[6097, 7922]
1624	[2895, 2896]	3646	[5665, 5666]	5668	[7366, 7367]	7690	[191, 6075]
1625	[904, 2897]	3647	[5667, 5668]	5669	[7226, 6956]	7691	[833, 8043]
1626	[2898, 2899]	3648	[2182, 1928]	5670	[4489, 7368]	7692	[5461, 6212]
1627	[2900, 714]	3649	[2744, 5669]	5671	[7261, 7369]	7693	[631, 8032]
1628	[2901, 2902]	3650	[5670, 5671]	5672	[7370, 7371]	7694	[6778, 6200]
1629	[2903, 2904]	3651	[5672, 5673]	5673	[7372, 4119]	7695	[6673, 5922]
1630	[2905, 2906]	3652	[5674, 5675]	5674	[4672, 3849]	7696	[8062, 5777]
1631	[240, 2907]	3653	[5676, 5677]	5675	[4227, 7373]	7697	[951, 7892]
1632	[2908, 2909]	3654	[5678, 2158]	5676	[7374, 7351]	7698	[5968, 6618]
1633	[2910, 2911]	3655	[2429, 5679]	5677	[4288, 7352]	7699	[8033, 2329]
1634	[2912, 2913]	3656	[5680, 1815]	5678	[1626, 3737]	7700	[5370, 5246]
1635	[2914, 2915]	3657	[5681, 5682]	5679	[4032, 7375]	7701	[6112, 7863]
1636	[2916, 2671]	3658	[5683, 5684]	5680	[7376, 4563]	7702	[6374, 235]
1637	[2917, 2918]	3659	[713, 2646]	5681	[7377, 4883]	7703	[6048, 2821]
1638	[2919, 2920]	3660	[5685, 5260]	5682	[3275, 4962]	7704	[2986, 2488]
1639	[2921, 775]	3661	[5686, 5257]	5683	[7378, 3866]	7705	[5422, 7992]
1640	[2090, 876]	3662	[5687, 5688]	5684	[4410, 4782]	7706	[7985, 8063]
1641	[2922, 2923]	3663	[2549, 2618]	5685	[7379, 7069]	7707	[8031, 32]
1642	[2924, 2925]	3664	[2786, 5689]	5686	[1465, 7066]	7708	[8060, 6646]
1643	[537, 2926]	3665	[3098, 5198]	5687	[1175, 462]	7709	[5205, 6057]
1644	[2927, 2928]	3666	[5690, 5691]	5688	[7380, 7139]	7710	[8013, 6059]
1645	[2929, 2930]	3667	[5692, 5693]	5689	[4705, 3351]	7711	[2568, 5522]
1646	[2931, 2932]	3668	[5525, 2072]	5690	[1076, 7381]	7712	[6723, 6615]
1647	[2933, 2934]	3669	[921, 5535]	5691	[7382, 7383]	7713	[6232, 5411]
1648	[2862, 2935]	3670	[2001, 5431]	5692	[7384, 1451]	7714	[6211, 2300]
1649	[2682, 2936]	3671	[2190, 5694]	5693	[7385, 7386]	7715	[5865, 6805]
1650	[2937, 2938]	3672	[5695, 2607]	5694	[1565, 3295]	7716	[6802, 906]
1651	[2118, 2939]	3673	[5696, 2609]	5695	[3307, 4386]	7717	[8039, 6016]
1652	[2940, 2941]	3674	[2794, 5697]	5696	[3821, 4389]	7718	[6359, 6512]
1653	[2942, 2943]	3675	[5698, 186]	5697	[1571, 4878]	7719	[6633, 1974]
1654	[2236, 1988]	3676	[5699, 5632]	5698	[366, 7387]	7720	[5267, 5486]
1655	[2654, 2944]	3677	[5700, 5701]	5699	[7388, 1490]	7721	[1875, 8014]
1656	[2945, 2946]	3678	[5702, 5703]	5700	[7349, 7389]	7722	[2019, 7841]
1657	[2947, 2948]	3679	[2590, 5704]	5701	[7390, 1113]	7723	[8003, 8015]
1658	[2949, 2950]	3680	[2067, 5705]	5702	[4408, 6863]	7724	[5382, 5460]
1659	[2951, 2952]	3681	[507, 5706]	5703	[7391, 3276]	7725	[2712, 6292]
1660	[2556, 2953]	3682	[699, 3130]	5704	[4009, 4822]	7726	[6751, 8048]
1661	[1859, 2954]	3683	[5707, 5252]	5705	[3599, 1581]	7727	[7998, 789]
1662	[2240, 2464]	3684	[248, 5708]	5706	[1412, 4141]	7728	[8024, 7896]
1663	[2955, 2956]	3685	[5709, 5710]	5707	[7120, 1610]	7729	[6693, 7864]
1664	[2957, 2958]	3686	[2906, 5711]	5708	[3728, 7392]	7730	[242, 7939]
1665	[2959, 2960]	3687	[5712, 2851]	5709	[3794, 7393]	7731	[6420, 5201]
1666	[595, 2961]	3688	[788, 5585]	5710	[3498, 7394]	7732	[6122, 61]

1667	[2962, 2963]	3689	[2960, 5118]	5711	[1190, 3818]	7733	[6175, 2648]
1668	[2964, 2965]	3690	[776, 5713]	5712	[7395, 7396]	7734	[5178, 7871]
1669	[2966, 2967]	3691	[5714, 5350]	5713	[7397, 7398]	7735	[6663, 7874]
1670	[2968, 2323]	3692	[5715, 5716]	5714	[3832, 7399]	7736	[5424, 8051]
1671	[1979, 2969]	3693	[5717, 5718]	5715	[1000, 7400]	7737	[2932, 2637]
1672	[2970, 2971]	3694	[5719, 2756]	5716	[7401, 7402]	7738	[5036, 6787]
1673	[2972, 2482]	3695	[60, 5720]	5717	[7028, 7403]	7739	[5694, 1953]
1674	[2063, 2973]	3696	[5279, 2465]	5718	[980, 7404]	7740	[5435, 6313]
1675	[2974, 220]	3697	[5721, 5217]	5719	[6982, 7405]	7741	[7940, 8057]
1676	[2975, 2976]	3698	[5722, 5723]	5720	[7406, 4156]	7742	[7923, 6050]
1677	[2977, 2978]	3699	[2938, 5724]	5721	[7407, 3943]	7743	[5830, 5857]
1678	[2979, 2980]	3700	[5725, 5592]	5722	[3477, 3888]	7744	[900, 7952]
1679	[2884, 1931]	3701	[5726, 5727]	5723	[1361, 7408]	7745	[8054, 7851]
1680	[2391, 2981]	3702	[2151, 2548]	5724	[4617, 3870]	7746	[2205, 5125]
1681	[654, 2982]	3703	[5637, 2550]	5725	[7409, 1698]	7747	[2606, 5971]
1682	[2983, 2984]	3704	[3134, 2546]	5726	[4549, 3925]	7748	[6630, 8064]
1683	[2985, 2986]	3705	[1985, 5728]	5727	[7410, 4607]	7749	[778, 6691]
1684	[2319, 2987]	3706	[5729, 765]	5728	[7136, 6997]	7750	[7880, 5928]
1685	[2988, 2334]	3707	[5730, 5731]	5729	[1784, 7299]	7751	[2255, 2509]
1686	[2989, 2990]	3708	[2936, 5732]	5730	[7411, 4634]	7752	[7927, 2722]
1687	[2991, 2992]	3709	[5733, 2787]	5731	[4042, 1648]	7753	[1932, 2966]
1688	[2993, 2099]	3710	[1916, 5734]	5732	[4284, 7412]	7754	[8063, 6495]
1689	[2994, 2995]	3711	[553, 2010]	5733	[1192, 4598]	7755	[738, 8047]
1690	[2996, 2716]	3712	[5735, 2410]	5734	[7413, 7414]	7756	[7835, 7830]
1691	[2997, 2848]	3713	[5736, 5737]	5735	[4697, 7415]	7757	[2438, 6159]
1692	[2998, 2999]	3714	[5738, 554]	5736	[4418, 7260]	7758	[3049, 5312]
1693	[3000, 3001]	3715	[5739, 5740]	5737	[7416, 7417]	7759	[8064, 6623]
1694	[3002, 2349]	3716	[2304, 5109]	5738	[3183, 7418]	7760	[859, 5498]
1695	[3003, 3004]	3717	[3077, 2203]	5739	[7419, 7420]	7761	[5821, 6544]
1696	[2664, 2785]	3718	[5741, 5742]	5740	[7421, 3309]	7762	[8049, 2827]
1697	[566, 2705]	3719	[2481, 5239]	5741	[7422, 7423]	7763	[2598, 2741]
1698	[3005, 3006]	3720	[804, 5743]	5742	[7424, 7425]	7764	[6399, 6401]
1699	[3007, 3008]	3721	[2409, 5744]	5743	[7426, 3580]	7765	[6541, 5274]
1700	[251, 3009]	3722	[5745, 2566]	5744	[7427, 7428]	7766	[8004, 5656]
1701	[3010, 3011]	3723	[5746, 5747]	5745	[6947, 438]	7767	[5303, 6728]
1702	[3012, 3013]	3724	[5013, 5748]	5746	[7396, 6869]	7768	[955, 7907]
1703	[3014, 3015]	3725	[1903, 5749]	5747	[6966, 1735]	7769	[5428, 8065]
1704	[3016, 2993]	3726	[5750, 2962]	5748	[7429, 7430]	7770	[5557, 7894]
1705	[3017, 3018]	3727	[5751, 2363]	5749	[3331, 4221]	7771	[5824, 7919]
1706	[3019, 3020]	3728	[5752, 5753]	5750	[1057, 3551]	7772	[5545, 8021]
1707	[3021, 3022]	3729	[2265, 5754]	5751	[1671, 483]	7773	[1801, 7989]
1708	[3023, 763]	3730	[2266, 5755]	5752	[4004, 4035]	7774	[6815, 6591]
1709	[2834, 2629]	3731	[5756, 5757]	5753	[7431, 7432]	7775	[2071, 2910]
1710	[3024, 1955]	3732	[5689, 2168]	5754	[3902, 4536]	7776	[7905, 2172]

1711	[3025, 2297]	3733	[5400, 5758]	5755	[1489, 4692]	7777	[5534, 6055]
1712	[3026, 3027]	3734	[515, 5759]	5756	[7212, 4256]	7778	[1949, 6467]
1713	[3028, 3029]	3735	[5760, 5761]	5757	[4601, 3684]	7779	[6427, 514]
1714	[3030, 3031]	3736	[853, 5506]	5758	[7166, 1512]	7780	[6555, 5820]
1715	[3032, 3033]	3737	[2343, 5762]	5759	[7433, 7434]	7781	[8006, 2394]
1716	[3034, 3035]	3738	[2899, 5763]	5760	[4048, 7435]	7782	[6230, 7973]
1717	[3036, 3037]	3739	[38, 2193]	5761	[3662, 1650]	7783	[8000, 1867]
1718	[703, 1802]	3740	[5764, 5308]	5762	[4499, 3301]	7784	[5886, 6086]
1719	[3038, 3039]	3741	[5765, 2912]	5763	[4747, 4838]	7785	[6804, 8012]
1720	[3040, 3041]	3742	[2109, 5766]	5764	[1306, 3535]	7786	[5679, 2584]
1721	[3042, 3043]	3743	[5767, 5768]	5765	[7436, 3978]	7787	[5957, 5798]
1722	[3044, 3045]	3744	[5769, 129]	5766	[7437, 7007]	7788	[8040, 3057]
1723	[3046, 1952]	3745	[2431, 5770]	5767	[6873, 3923]	7789	[8029, 2430]
1724	[3047, 2308]	3746	[5771, 5772]	5768	[7438, 4792]	7790	[6036, 6266]
1725	[2574, 3048]	3747	[5773, 5774]	5769	[1426, 258]	7791	[5386, 6712]
1726	[2060, 3049]	3748	[5502, 5775]	5770	[7248, 7439]	7792	[5282, 6260]
1727	[3050, 200]	3749	[5776, 5581]	5771	[7440, 3901]	7793	[1964, 5139]
1728	[3051, 3052]	3750	[5777, 5624]	5772	[7441, 7180]	7794	[8055, 5580]
1729	[3053, 2593]	3751	[3085, 5778]	5773	[7442, 7443]	7795	[2765, 7920]
1730	[3054, 542]	3752	[5779, 630]	5774	[7444, 7445]	7796	[2345, 6759]
1731	[3055, 3056]	3753	[5710, 5780]	5775	[7249, 4970]	7797	[8061, 2530]
1732	[3057, 3058]	3754	[5781, 5782]	5776	[4155, 7446]	7798	[5064, 6006]
1733	[3059, 3060]	3755	[1936, 5783]	5777	[7447, 7448]	7799	[6648, 836]
1734	[3061, 2854]	3756	[5784, 5785]	5778	[362, 7449]	7800	[517, 8059]
1735	[3062, 2823]	3757	[5786, 5787]	5779	[7450, 1700]	7801	[7839, 898]
1736	[3063, 3064]	3758	[5788, 5789]	5780	[7055, 1634]	7802	[2792, 5030]
1737	[3065, 3066]	3759	[548, 2874]	5781	[4865, 1749]	7803	[8052, 6443]
1738	[3067, 3068]	3760	[2454, 5790]	5782	[480, 7451]	7804	[7991, 7910]
1739	[3069, 2035]	3761	[2225, 5791]	5783	[7255, 4763]	7805	[6537, 5739]
1740	[3070, 3071]	3762	[5792, 5793]	5784	[7452, 4084]	7806	[2547, 2522]
1741	[949, 710]	3763	[3068, 5794]	5785	[7453, 3842]	7807	[5693, 7883]
1742	[3072, 3073]	3764	[5795, 2673]	5786	[1731, 1694]	7808	[5827, 8030]
1743	[3074, 3075]	3765	[5796, 5797]	5787	[7454, 1459]	7809	[3122, 3003]
1744	[3076, 777]	3766	[5798, 3091]	5788	[3267, 7426]	7810	[7899, 854]
1745	[2155, 3077]	3767	[2078, 5799]	5789	[7435, 7455]	7811	[6474, 5480]
1746	[3078, 806]	3768	[5800, 5801]	5790	[4790, 6932]	7812	[2128, 8045]
1747	[902, 3079]	3769	[1956, 5802]	5791	[7456, 7321]	7813	[2317, 2552]
1748	[175, 3080]	3770	[5803, 5804]	5792	[4417, 7343]	7814	[6791, 6196]
1749	[3081, 2997]	3771	[5805, 5788]	5793	[7432, 7457]	7815	[7917, 8038]
1750	[724, 3082]	3772	[5806, 692]	5794	[7217, 7458]	7816	[2290, 5009]
1751	[3083, 2669]	3773	[5586, 5807]	5795	[1736, 7459]	7817	[5358, 5852]
1752	[2238, 2872]	3774	[5808, 5809]	5796	[3261, 7150]	7818	[5276, 7909]
1753	[3084, 3085]	3775	[5325, 5810]	5797	[4216, 7460]	7819	[6456, 5630]
1754	[3086, 3087]	3776	[2737, 5811]	5798	[3802, 3501]	7820	[8065, 2256]

1755	[2802, 3088]	3777	[5812, 3061]	5799	[7461, 3996]	7821	[8058, 7842]
1756	[3089, 3090]	3778	[5508, 2226]	5800	[7190, 7462]	7822	[2670, 2733]
1757	[3091, 3092]	3779	[5813, 2399]	5801	[3719, 4855]	7823	[8042, 2432]
1758	[525, 3093]	3780	[843, 5814]	5802	[261, 7170]	7824	[6636, 2739]
1759	[3094, 3095]	3781	[5815, 5816]	5803	[3588, 3810]	7825	[7965, 5520]
1760	[3096, 2703]	3782	[5132, 3000]	5804	[7154, 7281]	7826	[8001, 8062]
1761	[3097, 3098]	3783	[5512, 2470]	5805	[1385, 3710]	7827	[768, 2917]
1762	[3099, 2582]	3784	[2080, 5817]	5806	[3994, 1259]	7828	[5080, 5873]
1763	[3100, 2922]	3785	[5399, 5818]	5807	[7314, 7348]	7829	[8066, 6843]
1764	[3101, 3102]	3786	[2652, 796]	5808	[1572, 973]	7830	[4700, 3768]
1765	[3103, 3104]	3787	[5819, 2996]	5809	[3686, 4342]	7831	[7282, 6951]
1766	[3105, 3106]	3788	[5820, 5821]	5810	[288, 4745]	7832	[4522, 1661]
1767	[2810, 3107]	3789	[5822, 2517]	5811	[4011, 7024]	7833	[7021, 7223]
1768	[3108, 662]	3790	[5823, 5824]	5812	[4709, 7463]	7834	[4390, 8067]
1769	[3109, 3110]	3791	[5825, 657]	5813	[7149, 7464]	7835	[7367, 3760]
1770	[3111, 3112]	3792	[5799, 5144]	5814	[4628, 403]	7836	[7823, 1339]
1771	[3113, 3114]	3793	[5826, 3016]	5815	[388, 7465]	7837	[7489, 4796]
1772	[3115, 2137]	3794	[2356, 5827]	5816	[3975, 4345]	7838	[4854, 7358]
1773	[3116, 3076]	3795	[5663, 2008]	5817	[7466, 3403]	7839	[1291, 7450]
1774	[3117, 3118]	3796	[151, 5294]	5818	[7467, 7468]	7840	[7275, 3509]
1775	[161, 3119]	3797	[2885, 5828]	5819	[7449, 7469]	7841	[1756, 7629]
1776	[3120, 3121]	3798	[615, 2611]	5820	[1010, 7470]	7842	[8068, 4766]
1777	[2420, 3122]	3799	[5785, 5829]	5821	[4936, 23]	7843	[7541, 7086]
1778	[3123, 3124]	3800	[1883, 1963]	5822	[7471, 7472]	7844	[7460, 1023]
1779	[3125, 3126]	3801	[2149, 5504]	5823	[3412, 7473]	7845	[3617, 7826]
1780	[691, 3127]	3802	[2082, 5830]	5824	[7474, 4379]	7846	[7816, 7213]
1781	[3128, 2541]	3803	[5356, 5831]	5825	[7475, 7476]	7847	[7464, 3935]
1782	[2774, 508]	3804	[2500, 5832]	5826	[1395, 7037]	7848	[8069, 8070]
1783	[943, 3129]	3805	[2469, 5833]	5827	[1595, 4402]	7849	[7808, 7802]
1784	[3130, 3131]	3806	[5834, 602]	5828	[7465, 7370]	7850	[6835, 3775]
1785	[849, 3132]	3807	[5835, 5836]	5829	[4164, 7477]	7851	[4106, 1400]
1786	[3133, 3134]	3808	[5837, 2639]	5830	[7478, 1578]	7852	[1211, 7234]
1787	[571, 888]	3809	[5838, 5839]	5831	[7147, 4484]	7853	[4369, 4626]
1788	[3135, 3136]	3810	[5542, 5840]	5832	[4297, 3359]	7854	[7627, 4515]
1789	[1319, 1587]	3811	[1837, 2229]	5833	[1159, 1070]	7855	[4877, 4159]
1790	[3137, 1337]	3812	[2736, 2321]	5834	[1781, 3721]	7856	[6, 6949]
1791	[1167, 3138]	3813	[5841, 932]	5835	[7221, 7479]	7857	[8071, 7507]
1792	[3139, 3140]	3814	[5757, 2513]	5836	[1631, 1299]	7858	[7710, 4023]
1793	[3141, 401]	3815	[5754, 2819]	5837	[7480, 3488]	7859	[972, 7310]
1794	[3142, 3143]	3816	[5755, 5842]	5838	[7481, 3242]	7860	[4130, 7695]
1795	[3144, 3145]	3817	[2830, 5843]	5839	[1687, 7482]	7861	[4109, 1579]
1796	[3146, 3147]	3818	[163, 5574]	5840	[7340, 3146]	7862	[966, 7687]
1797	[3148, 3149]	3819	[5844, 5845]	5841	[7483, 7484]	7863	[7393, 4951]
1798	[3150, 3151]	3820	[5846, 3070]	5842	[3905, 329]	7864	[3436, 3753]

1799	[1554, 3152]	3821	[5847, 5848]	5843	[4664, 4366]	7865	[7820, 7291]
1800	[449, 3153]	3822	[5218, 5268]	5844	[7485, 7486]	7866	[7633, 1125]
1801	[1446, 3154]	3823	[5849, 5850]	5845	[7487, 7488]	7867	[7316, 8072]
1802	[3155, 3156]	3824	[3006, 2206]	5846	[7386, 7489]	7868	[1207, 3980]
1803	[3157, 3158]	3825	[5851, 5750]	5847	[7298, 4089]	7869	[7685, 7416]
1804	[3159, 3160]	3826	[5852, 5813]	5848	[7490, 446]	7870	[8072, 7264]
1805	[3161, 3162]	3827	[2292, 528]	5849	[7341, 7491]	7871	[7206, 7792]
1806	[282, 3163]	3828	[5853, 5854]	5850	[3786, 7492]	7872	[4764, 7814]
1807	[3164, 3165]	3829	[5855, 5856]	5851	[7493, 3420]	7873	[7095, 3674]
1808	[3166, 3167]	3830	[5857, 5858]	5852	[3263, 4097]	7874	[4027, 7736]
1809	[3168, 1675]	3831	[5859, 5860]	5853	[7335, 1147]	7875	[7287, 7129]
1810	[3169, 3170]	3832	[2491, 5861]	5854	[7319, 3529]	7876	[7650, 7728]
1811	[3171, 3172]	3833	[1881, 5862]	5855	[4415, 1507]	7877	[7780, 6968]
1812	[3173, 3150]	3834	[2024, 5863]	5856	[4832, 7187]	7878	[3160, 281]
1813	[3174, 3175]	3835	[5864, 5865]	5857	[7494, 4893]	7879	[7279, 7744]
1814	[3176, 276]	3836	[5866, 2490]	5858	[4311, 7475]	7880	[7760, 7533]
1815	[3177, 3178]	3837	[2863, 5867]	5859	[4453, 4571]	7881	[4398, 7797]
1816	[3179, 3180]	3838	[5868, 5869]	5860	[20, 7495]	7882	[7761, 7750]
1817	[3181, 3137]	3839	[5870, 5871]	5861	[4894, 7496]	7883	[8073, 4396]
1818	[3182, 3183]	3840	[5872, 5527]	5862	[6975, 7497]	7884	[7670, 7624]
1819	[3184, 3185]	3841	[5873, 5874]	5863	[7498, 4565]	7885	[7693, 4445]
1820	[3186, 1143]	3842	[5802, 2156]	5864	[6839, 6905]	7886	[7817, 3825]
1821	[3187, 3188]	3843	[5395, 5875]	5865	[4606, 1075]	7887	[3360, 7058]
1822	[3189, 3190]	3844	[5876, 5206]	5866	[7499, 7500]	7888	[4324, 3555]
1823	[3191, 3192]	3845	[5877, 2989]	5867	[1325, 4706]	7889	[4820, 3174]
1824	[3193, 3194]	3846	[5253, 5878]	5868	[7231, 477]	7890	[3611, 7240]
1825	[3195, 3196]	3847	[3008, 5879]	5869	[1391, 7501]	7891	[1267, 8074]
1826	[1466, 3197]	3848	[2769, 5880]	5870	[290, 4791]	7892	[8075, 7659]
1827	[1558, 3198]	3849	[5881, 5882]	5871	[7502, 4703]	7893	[3559, 381]
1828	[3199, 3200]	3850	[5419, 2305]	5872	[3327, 1133]	7894	[1689, 4895]
1829	[3201, 3202]	3851	[5883, 5884]	5873	[7503, 1519]	7895	[8076, 4434]
1830	[3203, 3204]	3852	[5885, 2507]	5874	[7113, 4467]	7896	[7164, 4636]
1831	[3205, 3206]	3853	[5728, 5054]	5875	[474, 4460]	7897	[7259, 4117]
1832	[3207, 3208]	3854	[2413, 5886]	5876	[7295, 3164]	7898	[4456, 4823]
1833	[342, 3209]	3855	[2221, 5887]	5877	[7040, 7504]	7899	[306, 7794]
1834	[3210, 3211]	3856	[3114, 5888]	5878	[1285, 6911]	7900	[4359, 4890]
1835	[3212, 3213]	3857	[5889, 510]	5879	[4647, 1324]	7901	[4476, 8077]
1836	[3214, 121]	3858	[2923, 2524]	5880	[4588, 4913]	7902	[7705, 995]
1837	[3215, 3216]	3859	[5175, 5890]	5881	[4751, 7505]	7903	[7813, 3462]
1838	[3217, 3218]	3860	[1844, 2750]	5882	[3204, 4871]	7904	[4344, 1745]
1839	[3219, 3220]	3861	[5487, 752]	5883	[7239, 7162]	7905	[6917, 6843]
1840	[3221, 3222]	3862	[5265, 2412]	5884	[7504, 3467]	7906	[4167, 7284]
1841	[3223, 3224]	3863	[5161, 5891]	5885	[4152, 365]	7907	[4572, 4436]
1842	[3225, 3226]	3864	[2307, 5892]	5886	[1006, 4876]	7908	[7702, 117]

1843	[3227, 3228]	3865	[2896, 170]	5887	[7506, 3707]	7909	[4036, 7546]
1844	[3229, 3230]	3866	[2971, 5792]	5888	[1336, 3322]	7910	[1116, 7604]
1845	[1526, 3231]	3867	[5214, 5893]	5889	[1373, 7104]	7911	[1633, 4168]
1846	[3232, 3233]	3868	[5894, 1876]	5890	[3243, 3493]	7912	[3841, 7759]
1847	[3234, 3235]	3869	[5895, 610]	5891	[6877, 7503]	7913	[4795, 3955]
1848	[3236, 3237]	3870	[5896, 5897]	5892	[7507, 4196]	7914	[984, 8078]
1849	[3238, 3239]	3871	[5898, 5899]	5893	[443, 6987]	7915	[493, 979]
1850	[3240, 3241]	3872	[5900, 5582]	5894	[7508, 4785]	7916	[4839, 1049]
1851	[3242, 3243]	3873	[5899, 3097]	5895	[4081, 1216]	7917	[7806, 1739]
1852	[3244, 407]	3874	[5021, 3099]	5896	[7509, 7510]	7918	[4998, 4801]
1853	[3245, 3246]	3875	[931, 5901]	5897	[3138, 7511]	7919	[7473, 7791]
1854	[3247, 3248]	3876	[5902, 5269]	5898	[7233, 7512]	7920	[4043, 7606]
1855	[3249, 3250]	3877	[1934, 3103]	5899	[7513, 4981]	7921	[4420, 7676]
1856	[3251, 3252]	3878	[5903, 5531]	5900	[6941, 4294]	7922	[7270, 7029]
1857	[3253, 458]	3879	[5904, 5905]	5901	[1740, 1098]	7923	[4060, 7743]
1858	[1308, 3254]	3880	[5906, 5907]	5902	[7514, 1475]	7924	[3354, 8075]
1859	[3255, 3256]	3881	[5684, 874]	5903	[7515, 113]	7925	[3665, 1432]
1860	[3257, 3258]	3882	[527, 5908]	5904	[7516, 4979]	7926	[7726, 7384]
1861	[3259, 3260]	3883	[5909, 5910]	5905	[7517, 7518]	7927	[416, 3843]
1862	[3258, 3261]	3884	[5911, 5912]	5906	[7216, 83]	7928	[7757, 4127]
1863	[3262, 3263]	3885	[5913, 5683]	5907	[4292, 7133]	7929	[4435, 4115]
1864	[3264, 3265]	3886	[5914, 5806]	5908	[3848, 7519]	7930	[4667, 1333]
1865	[3266, 3267]	3887	[5285, 5915]	5909	[7520, 7521]	7931	[1295, 7315]
1866	[3268, 3269]	3888	[5471, 5916]	5910	[1658, 3415]	7932	[7590, 3304]
1867	[3270, 3255]	3889	[5473, 5868]	5911	[6902, 7288]	7933	[7167, 3856]
1868	[3271, 3272]	3890	[5917, 5918]	5912	[6903, 1753]	7934	[3741, 7667]
1869	[1725, 3273]	3891	[5346, 5366]	5913	[370, 413]	7935	[7775, 7828]
1870	[3274, 3275]	3892	[919, 5919]	5914	[7522, 409]	7936	[7801, 4273]
1871	[3276, 3277]	3893	[5920, 5131]	5915	[4845, 7409]	7937	[1340, 7015]
1872	[3278, 3279]	3894	[5677, 5648]	5916	[3697, 1362]	7938	[7689, 7771]
1873	[3280, 3281]	3895	[5869, 5921]	5917	[3579, 6995]	7939	[478, 3669]
1874	[3282, 3283]	3896	[5922, 5923]	5918	[7523, 7524]	7940	[8070, 4929]
1875	[3284, 3285]	3897	[5924, 5925]	5919	[1721, 6867]	7941	[4360, 7148]
1876	[1458, 91]	3898	[5926, 5564]	5920	[6944, 4521]	7942	[7329, 85]
1877	[3286, 3287]	3899	[5927, 2567]	5921	[3554, 7525]	7943	[7805, 7694]
1878	[3288, 3289]	3900	[2176, 5101]	5922	[7526, 7527]	7944	[1310, 7642]
1879	[1406, 3290]	3901	[5928, 5929]	5923	[7528, 4826]	7945	[7205, 1243]
1880	[3291, 3292]	3902	[5930, 5931]	5924	[4483, 7529]	7946	[6872, 3679]
1881	[3293, 3294]	3903	[3095, 5932]	5925	[7530, 1730]	7947	[7183, 7576]
1882	[3295, 3296]	3904	[2514, 643]	5926	[7531, 4335]	7948	[4251, 7653]
1883	[3297, 3298]	3905	[5933, 5934]	5927	[7532, 4332]	7949	[7631, 7688]
1884	[3299, 3300]	3906	[5935, 5721]	5928	[1567, 1305]	7950	[7575, 3496]
1885	[3301, 3302]	3907	[5936, 846]	5929	[7533, 3497]	7951	[7107, 7461]
1886	[108, 3303]	3908	[5937, 5938]	5930	[7534, 4028]	7952	[3754, 6912]

1887	[110, 1315]	3909	[5939, 5940]	5931	[1097, 7454]	7953	[3813, 1270]
1888	[3304, 3305]	3910	[5941, 3053]	5932	[3388, 4589]	7954	[3200, 8076]
1889	[3306, 3307]	3911	[5836, 5942]	5933	[7535, 7324]	7955	[4743, 7538]
1890	[1480, 3308]	3912	[673, 5943]	5934	[7459, 7536]	7956	[4922, 4843]
1891	[3309, 3310]	3913	[5944, 128]	5935	[3763, 4073]	7957	[392, 1135]
1892	[3311, 3312]	3914	[5351, 5945]	5936	[4142, 7537]	7958	[6978, 7502]
1893	[3313, 3314]	3915	[5946, 5947]	5937	[4957, 6989]	7959	[1031, 7583]
1894	[3315, 3316]	3916	[2042, 2197]	5938	[7068, 3965]	7960	[4956, 8069]
1895	[3317, 1477]	3917	[3073, 5948]	5939	[3733, 4439]	7961	[7819, 7498]
1896	[3318, 3319]	3918	[5949, 5950]	5940	[3735, 7494]	7962	[7238, 7716]
1897	[3320, 3321]	3919	[5951, 5952]	5941	[7538, 4268]	7963	[6950, 1082]
1898	[3322, 3323]	3920	[3029, 2781]	5942	[7479, 7145]	7964	[7100, 7424]
1899	[3324, 3325]	3921	[5953, 2101]	5943	[1293, 3452]	7965	[7713, 7506]
1900	[3326, 3327]	3922	[5216, 3108]	5944	[4665, 7410]	7966	[4577, 7770]
1901	[3328, 3329]	3923	[5954, 214]	5945	[1197, 1555]	7967	[7652, 1086]
1902	[3330, 3331]	3924	[5955, 5956]	5946	[1737, 7523]	7968	[6898, 4587]
1903	[3332, 3333]	3925	[2196, 5957]	5947	[4455, 3297]	7969	[7790, 4739]
1904	[3334, 3335]	3926	[5958, 5930]	5948	[1343, 7539]	7970	[4131, 7131]
1905	[3336, 3337]	3927	[650, 5959]	5949	[4631, 7540]	7971	[386, 1551]
1906	[3338, 1224]	3928	[5960, 5441]	5950	[3277, 1104]	7972	[7224, 7563]
1907	[1026, 325]	3929	[5961, 5962]	5951	[6979, 1768]	7973	[7827, 1636]
1908	[3339, 3340]	3930	[621, 5733]	5952	[4261, 1770]	7974	[4134, 7041]
1909	[3341, 3342]	3931	[5963, 2831]	5953	[4137, 7541]	7975	[3851, 3416]
1910	[962, 3343]	3932	[509, 1960]	5954	[4776, 426]	7976	[4879, 4019]
1911	[3344, 3345]	3933	[2780, 5964]	5955	[7542, 3499]	7977	[8067, 3270]
1912	[3346, 3347]	3934	[823, 5965]	5956	[4825, 7515]	7978	[4361, 8079]
1913	[3348, 1376]	3935	[5966, 5967]	5957	[7540, 4973]	7979	[1552, 4504]
1914	[3349, 3350]	3936	[5143, 5968]	5958	[4726, 1673]	7980	[7729, 7586]
1915	[3351, 3352]	3937	[5969, 5970]	5959	[3194, 7543]	7981	[7815, 6919]
1916	[3353, 3354]	3938	[5971, 2635]	5960	[4218, 3755]	7982	[7327, 7696]
1917	[3355, 3356]	3939	[817, 2951]	5961	[7209, 1278]	7983	[3491, 6840]
1918	[3357, 3358]	3940	[5972, 5973]	5962	[7425, 3166]	7984	[7777, 3357]
1919	[3359, 3360]	3941	[5780, 5974]	5963	[3522, 7544]	7985	[7134, 442]
1920	[3361, 1757]	3942	[5975, 5659]	5964	[1617, 335]	7986	[7189, 1562]
1921	[3362, 3363]	3943	[2282, 2045]	5965	[4157, 7493]	7987	[1012, 7313]
1922	[1474, 3364]	3944	[5976, 2250]	5966	[259, 7057]	7988	[7178, 7490]
1923	[3365, 3366]	3945	[5888, 5977]	5967	[4971, 369]	7989	[7218, 6892]
1924	[3367, 3368]	3946	[5978, 1843]	5968	[7545, 3362]	7990	[6913, 3742]
1925	[3369, 3370]	3947	[5979, 1845]	5969	[1586, 7303]	7991	[8074, 3219]
1926	[3371, 3372]	3948	[5980, 194]	5970	[4964, 1688]	7992	[7199, 3632]
1927	[3373, 3374]	3949	[2444, 5981]	5971	[7546, 4427]	7993	[7665, 8080]
1928	[3375, 488]	3950	[5982, 2685]	5972	[7049, 3341]	7994	[3289, 7602]
1929	[1136, 309]	3951	[5983, 5984]	5973	[4961, 6893]	7995	[3884, 4942]
1930	[3376, 1189]	3952	[5985, 5986]	5974	[6860, 7547]	7996	[7677, 7017]

1931	[3377, 3378]	3953	[5987, 3063]	5975	[7548, 4151]	7997	[7430, 7336]
1932	[3379, 3380]	3954	[5988, 5989]	5976	[7161, 3621]	7998	[1573, 3912]
1933	[3381, 3382]	3955	[5990, 3010]	5977	[4992, 7549]	7999	[4240, 7706]
1934	[3323, 3383]	3956	[2215, 524]	5978	[7550, 3229]	8000	[7811, 4121]
1935	[3384, 3385]	3957	[2965, 5991]	5979	[3272, 3232]	8001	[1417, 7419]
1936	[3143, 3386]	3958	[912, 5215]	5980	[7551, 387]	8002	[7825, 7237]
1937	[3387, 3388]	3959	[5992, 9]	5981	[7552, 6854]	8003	[7373, 4529]
1938	[3389, 1692]	3960	[2992, 5822]	5982	[7553, 4171]	8004	[4502, 7818]
1939	[3390, 3391]	3961	[5993, 5994]	5983	[7554, 3286]	8005	[3290, 1615]
1940	[3392, 3393]	3962	[5559, 5709]	5984	[1534, 7555]	8006	[8080, 7821]
1941	[3394, 3395]	3963	[5995, 5655]	5985	[7369, 7556]	8007	[3689, 3217]
1942	[3396, 3397]	3964	[2510, 2214]	5986	[4841, 7557]	8008	[255, 4701]
1943	[3398, 486]	3965	[5996, 2473]	5987	[7558, 7013]	8009	[7807, 8073]
1944	[3399, 3400]	3966	[56, 5997]	5988	[3305, 7559]	8010	[4378, 6948]
1945	[3401, 3402]	3967	[5998, 5999]	5989	[7560, 7197]	8011	[7470, 3619]
1946	[3403, 3404]	3968	[6000, 6001]	5990	[4024, 7561]	8012	[1349, 7130]
1947	[3405, 3406]	3969	[6002, 6003]	5991	[4824, 4270]	8013	[4314, 1782]
1948	[3407, 3408]	3970	[2950, 6004]	5992	[3578, 21]	8014	[1363, 7531]
1949	[3409, 3410]	3971	[761, 6005]	5993	[1681, 7474]	8015	[1440, 7796]
1950	[3411, 3412]	3972	[6006, 6007]	5994	[3190, 7044]	8016	[4126, 4275]
1951	[3413, 3414]	3973	[6008, 2417]	5995	[7179, 3606]	8017	[3846, 357]
1952	[3415, 3367]	3974	[6009, 6010]	5996	[3829, 4872]	8018	[3926, 7787]
1953	[3416, 3417]	3975	[2610, 150]	5997	[3921, 1473]	8019	[4868, 7253]
1954	[3418, 3419]	3976	[2411, 6011]	5998	[7137, 7080]	8020	[7749, 8068]
1955	[3420, 3421]	3977	[6012, 2121]	5999	[4403, 7562]	8021	[7404, 4163]
1956	[3422, 3423]	3978	[6013, 6014]	6000	[7563, 7564]	8022	[4661, 4165]
1957	[1114, 3424]	3979	[2189, 6015]	6001	[6992, 7156]	8023	[3985, 7755]
1958	[3425, 3426]	3980	[6016, 930]	6002	[7439, 7514]	8024	[7244, 448]
1959	[3427, 3428]	3981	[6017, 6018]	6003	[7118, 3797]	8025	[8077, 3785]
1960	[3429, 1616]	3982	[6019, 2905]	6004	[7399, 7565]	8026	[1183, 4734]
1961	[3430, 3431]	3983	[2527, 3105]	6005	[7566, 3264]	8027	[7204, 4770]
1962	[3432, 3433]	3984	[6020, 3051]	6006	[6883, 1356]	8028	[7027, 7767]
1963	[3434, 3435]	3985	[6021, 160]	6007	[6884, 7567]	8029	[7599, 4143]
1964	[3298, 3436]	3986	[2360, 6022]	6008	[6885, 4277]	8030	[7062, 7810]
1965	[3437, 3438]	3987	[6023, 6024]	6009	[7568, 7569]	8031	[1359, 7056]
1966	[3265, 3439]	3988	[2887, 6025]	6010	[7398, 3718]	8032	[7795, 7737]
1967	[3440, 3441]	3989	[2751, 793]	6011	[4116, 7251]	8033	[7595, 3547]
1968	[3442, 1710]	3990	[6026, 6027]	6012	[7521, 7570]	8034	[441, 3922]
1969	[3443, 3444]	3991	[6028, 6029]	6013	[4282, 4285]	8035	[4783, 6896]
1970	[1420, 3445]	3992	[1839, 2589]	6014	[7571, 7530]	8036	[6851, 115]
1971	[3446, 456]	3993	[6030, 6031]	6015	[1719, 4740]	8037	[7469, 3837]
1972	[3185, 3447]	3994	[5704, 6032]	6016	[7557, 1131]	8038	[7468, 3155]
1973	[3448, 3449]	3995	[6033, 2220]	6017	[7572, 7573]	8039	[3918, 1051]
1974	[3345, 3450]	3996	[6034, 6035]	6018	[364, 4803]	8040	[7645, 4092]

1975	[3451, 1139]	3997	[5273, 6036]	6019	[7309, 7258]	8041	[4891, 3783]
1976	[3452, 3453]	3998	[6037, 5426]	6020	[7574, 7575]	8042	[1524, 4145]
1977	[3454, 3455]	3999	[660, 2051]	6021	[4569, 385]	8043	[1699, 4226]
1978	[3456, 3457]	4000	[5584, 3042]	6022	[4350, 6859]	8044	[7782, 7035]
1979	[3458, 3459]	4001	[5483, 886]	6023	[7576, 7429]	8045	[7793, 3616]
1980	[3460, 3461]	4002	[6038, 2]	6024	[408, 323]	8046	[7739, 4526]
1981	[3462, 1030]	4003	[841, 2084]	6025	[4737, 1352]	8047	[7151, 7202]
1982	[1601, 3346]	4004	[1857, 5601]	6026	[7577, 1176]	8048	[8079, 1593]
1983	[3463, 3464]	4005	[6039, 3021]	6027	[3618, 1180]	8049	[4912, 4566]
1984	[74, 3465]	4006	[6040, 6041]	6028	[1020, 7578]	8050	[7415, 7155]
1985	[3466, 3136]	4007	[5644, 5600]	6029	[3542, 7124]	8051	[7274, 3858]
1986	[3467, 1763]	4008	[6042, 5565]	6030	[4774, 7115]	8052	[7265, 1502]
1987	[3468, 3469]	4009	[6043, 2789]	6031	[7462, 1200]	8053	[3424, 4864]
1988	[1590, 3470]	4010	[6044, 2797]	6032	[6963, 7431]	8054	[6882, 8071]
1989	[3471, 3472]	4011	[6045, 6046]	6033	[1603, 7579]	8055	[7804, 3495]
1990	[3473, 3474]	4012	[6047, 5685]	6034	[1370, 4663]	8056	[3180, 7798]
1991	[3475, 307]	4013	[5657, 6048]	6035	[7158, 1186]	8057	[3844, 6862]
1992	[3476, 3477]	4014	[6049, 5745]	6036	[4561, 7143]	8058	[3647, 7784]
1993	[3478, 473]	4015	[6050, 2543]	6037	[3782, 3824]	8059	[4382, 313]
1994	[3479, 3480]	4016	[2263, 6051]	6038	[7074, 7580]	8060	[7733, 3483]
1995	[3481, 3482]	4017	[3015, 2046]	6039	[7235, 7067]	8061	[7363, 7361]
1996	[3483, 1137]	4018	[6052, 688]	6040	[3319, 1204]	8062	[7308, 7619]
1997	[3484, 3485]	4019	[5893, 6053]	6041	[7519, 4280]	8063	[3465, 7824]
1998	[3486, 3487]	4020	[6014, 5277]	6042	[7488, 4591]	8064	[3140, 4304]
1999	[3488, 3489]	4021	[5817, 6054]	6043	[1035, 4066]	8065	[8078, 4857]
2000	[3490, 3491]	4022	[6055, 6056]	6044	[3626, 7581]	8066	[8081, 957]
2001	[3492, 1191]	4023	[6057, 6058]	6045	[4847, 5]	8067	[7868, 2691]
2002	[3493, 3494]	4024	[6059, 956]	6046	[4651, 6936]	8068	[5790, 6234]
2003	[3495, 95]	4025	[5171, 2467]	6047	[1414, 7582]	8069	[6496, 5603]
2004	[3496, 475]	4026	[5839, 1851]	6048	[7357, 3974]	8070	[2398, 5575]
2005	[3497, 3498]	4027	[891, 6060]	6049	[98, 4056]	8071	[7847, 2154]
2006	[3499, 3500]	4028	[6061, 5491]	6050	[1516, 4298]	8072	[5397, 8053]
2007	[3501, 3502]	4029	[2961, 6062]	6051	[4834, 4802]	8073	[7972, 3116]
2008	[3503, 3504]	4030	[5549, 5539]	6052	[4088, 1322]	8074	[6640, 6276]
2009	[3505, 3506]	4031	[6063, 6064]	6053	[4093, 3704]	8075	[2523, 5988]
2010	[3507, 3508]	4032	[5474, 1917]	6054	[7583, 7522]	8076	[5089, 6436]
2011	[3509, 1535]	4033	[6065, 6066]	6055	[7584, 7585]	8077	[7870, 2347]
2012	[3510, 3511]	4034	[6067, 6068]	6056	[7009, 6837]	8078	[1829, 7954]
2013	[3512, 3513]	4035	[6069, 2563]	6057	[7586, 7485]	8079	[501, 2505]
2014	[3514, 3515]	4036	[6070, 5541]	6058	[7014, 7487]	8080	[8035, 2277]
2015	[3516, 3517]	4037	[6071, 6042]	6059	[7573, 3392]	8081	[8082, 4390]
2016	[3518, 3519]	4038	[6072, 5509]	6060	[7587, 7588]	8082	[8083, 7868]
2017	[3520, 1525]	4039	[6073, 6074]	6061	[6991, 3942]	8083	[8084, 4495]
2018	[3521, 3522]	4040	[6075, 2183]	6062	[7580, 7091]	8084	[1, 2747]

2019	[3523, 1202]	4041	[6076, 6077]	6063	[7589, 7590]
2020	[1037, 3524]	4042	[153, 5568]	6064	[4852, 7591]
2021	[3525, 3526]	4043	[5828, 6078]	6065	[1232, 4678]

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

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1348	1	2696	0	4044	1	5392	1	6740	0
1	0	1349	0	2697	0	4045	1	5393	0	6741	1
2	0	1350	1	2698	0	4046	0	5394	1	6742	1
3	0	1351	1	2699	1	4047	1	5395	1	6743	1
4	0	1352	0	2700	0	4048	0	5396	1	6744	1
5	0	1353	1	2701	1	4049	1	5397	1	6745	1
6	0	1354	0	2702	0	4050	0	5398	1	6746	0
7	0	1355	0	2703	0	4051	1	5399	0	6747	0
8	1	1356	0	2704	0	4052	0	5400	0	6748	1
9	0	1357	0	2705	1	4053	1	5401	0	6749	1
10	1	1358	0	2706	1	4054	0	5402	0	6750	1
11	0	1359	1	2707	0	4055	0	5403	1	6751	1
12	0	1360	1	2708	1	4056	0	5404	1	6752	0
13	0	1361	1	2709	1	4057	1	5405	1	6753	0
14	1	1362	1	2710	1	4058	0	5406	0	6754	1
15	0	1363	1	2711	0	4059	0	5407	0	6755	0
16	1	1364	0	2712	1	4060	1	5408	0	6756	1
17	1	1365	0	2713	0	4061	0	5409	0	6757	1
18	0	1366	0	2714	1	4062	1	5410	0	6758	1
19	0	1367	1	2715	0	4063	1	5411	0	6759	0
20	0	1368	1	2716	1	4064	0	5412	0	6760	1
21	1	1369	0	2717	0	4065	0	5413	0	6761	1
22	0	1370	1	2718	1	4066	0	5414	0	6762	0
23	0	1371	1	2719	0	4067	0	5415	1	6763	1
24	0	1372	1	2720	0	4068	1	5416	0	6764	0
25	0	1373	0	2721	0	4069	1	5417	0	6765	1
26	0	1374	1	2722	1	4070	0	5418	0	6766	1
27	0	1375	0	2723	0	4071	1	5419	0	6767	0
28	0	1376	0	2724	0	4072	0	5420	1	6768	0
29	1	1377	1	2725	1	4073	1	5421	0	6769	0
30	1	1378	0	2726	1	4074	1	5422	1	6770	1
31	0	1379	0	2727	0	4075	1	5423	1	6771	0
32	1	1380	0	2728	0	4076	0	5424	1	6772	1
33	1	1381	0	2729	1	4077	1	5425	0	6773	0
34	0	1382	0	2730	0	4078	0	5426	0	6774	0
35	1	1383	1	2731	0	4079	1	5427	1	6775	0
36	0	1384	1	2732	1	4080	1	5428	1	6776	0
37	0	1385	1	2733	1	4081	1	5429	1	6777	0

38	1	1386	1	2734	0	4082	1	5430	0	6778	1
39	0	1387	1	2735	1	4083	0	5431	0	6779	1
40	1	1388	1	2736	0	4084	0	5432	0	6780	0
41	0	1389	1	2737	1	4085	0	5433	0	6781	1
42	0	1390	1	2738	0	4086	0	5434	0	6782	1
43	1	1391	0	2739	0	4087	1	5435	1	6783	1
44	1	1392	0	2740	0	4088	0	5436	0	6784	0
45	0	1393	0	2741	0	4089	1	5437	1	6785	1
46	0	1394	0	2742	0	4090	1	5438	0	6786	1
47	0	1395	1	2743	1	4091	1	5439	0	6787	0
48	1	1396	1	2744	1	4092	1	5440	1	6788	0
49	0	1397	1	2745	0	4093	1	5441	0	6789	0
50	0	1398	0	2746	1	4094	1	5442	1	6790	0
51	0	1399	0	2747	0	4095	0	5443	1	6791	0
52	0	1400	0	2748	0	4096	0	5444	0	6792	0
53	0	1401	0	2749	1	4097	1	5445	1	6793	0
54	0	1402	0	2750	0	4098	0	5446	0	6794	0
55	0	1403	1	2751	1	4099	1	5447	1	6795	0
56	1	1404	0	2752	1	4100	1	5448	0	6796	1
57	0	1405	0	2753	0	4101	0	5449	0	6797	1
58	1	1406	0	2754	1	4102	1	5450	1	6798	1
59	1	1407	1	2755	1	4103	1	5451	1	6799	1
60	0	1408	1	2756	0	4104	1	5452	1	6800	1
61	1	1409	0	2757	1	4105	0	5453	1	6801	0
62	1	1410	0	2758	0	4106	0	5454	0	6802	0
63	0	1411	1	2759	1	4107	1	5455	1	6803	1
64	0	1412	0	2760	0	4108	1	5456	1	6804	1
65	1	1413	1	2761	0	4109	1	5457	1	6805	0
66	0	1414	1	2762	0	4110	0	5458	1	6806	1
67	1	1415	1	2763	0	4111	0	5459	1	6807	1
68	0	1416	0	2764	0	4112	1	5460	0	6808	0
69	0	1417	1	2765	0	4113	0	5461	0	6809	1
70	1	1418	0	2766	0	4114	0	5462	0	6810	1
71	1	1419	1	2767	0	4115	0	5463	0	6811	1
72	1	1420	1	2768	0	4116	0	5464	1	6812	1
73	0	1421	0	2769	0	4117	0	5465	1	6813	0
74	1	1422	0	2770	1	4118	1	5466	1	6814	0
75	0	1423	0	2771	0	4119	1	5467	0	6815	0
76	0	1424	0	2772	1	4120	1	5468	1	6816	0
77	1	1425	0	2773	1	4121	0	5469	0	6817	1
78	0	1426	0	2774	1	4122	1	5470	0	6818	1
79	0	1427	0	2775	1	4123	1	5471	0	6819	0
80	1	1428	1	2776	0	4124	1	5472	0	6820	0
81	1	1429	0	2777	0	4125	0	5473	1	6821	0

82	0	1430	1	2778	0	4126	1	5474	1	6822	1
83	0	1431	0	2779	0	4127	1	5475	1	6823	0
84	0	1432	1	2780	1	4128	0	5476	1	6824	0
85	0	1433	0	2781	1	4129	1	5477	0	6825	0
86	0	1434	1	2782	1	4130	1	5478	0	6826	0
87	1	1435	1	2783	1	4131	1	5479	1	6827	1
88	1	1436	1	2784	0	4132	1	5480	0	6828	1
89	1	1437	1	2785	1	4133	1	5481	0	6829	1
90	0	1438	1	2786	0	4134	0	5482	1	6830	0
91	0	1439	1	2787	0	4135	0	5483	1	6831	1
92	0	1440	1	2788	0	4136	1	5484	0	6832	0
93	0	1441	0	2789	1	4137	1	5485	0	6833	1
94	1	1442	1	2790	0	4138	1	5486	1	6834	0
95	0	1443	0	2791	1	4139	0	5487	0	6835	1
96	0	1444	1	2792	1	4140	0	5488	1	6836	1
97	1	1445	0	2793	1	4141	0	5489	0	6837	0
98	1	1446	1	2794	0	4142	1	5490	0	6838	0
99	0	1447	1	2795	0	4143	1	5491	1	6839	0
100	1	1448	0	2796	0	4144	1	5492	0	6840	1
101	0	1449	1	2797	1	4145	0	5493	1	6841	1
102	0	1450	0	2798	1	4146	1	5494	0	6842	1
103	0	1451	0	2799	1	4147	1	5495	0	6843	1
104	1	1452	1	2800	1	4148	0	5496	1	6844	0
105	0	1453	0	2801	0	4149	1	5497	0	6845	0
106	0	1454	0	2802	0	4150	1	5498	1	6846	0
107	0	1455	1	2803	1	4151	1	5499	0	6847	0
108	0	1456	1	2804	1	4152	1	5500	1	6848	1
109	0	1457	0	2805	1	4153	1	5501	0	6849	1
110	0	1458	1	2806	0	4154	0	5502	1	6850	1
111	0	1459	0	2807	1	4155	1	5503	1	6851	0
112	1	1460	1	2808	0	4156	0	5504	0	6852	0
113	1	1461	0	2809	1	4157	0	5505	1	6853	0
114	0	1462	0	2810	1	4158	0	5506	1	6854	1
115	0	1463	1	2811	0	4159	1	5507	0	6855	0
116	0	1464	0	2812	1	4160	0	5508	1	6856	0
117	1	1465	0	2813	1	4161	0	5509	0	6857	0
118	0	1466	0	2814	1	4162	1	5510	1	6858	0
119	1	1467	0	2815	1	4163	1	5511	0	6859	0
120	1	1468	1	2816	0	4164	0	5512	0	6860	0
121	0	1469	0	2817	0	4165	1	5513	1	6861	1
122	0	1470	1	2818	1	4166	0	5514	0	6862	1
123	1	1471	0	2819	1	4167	1	5515	0	6863	0
124	0	1472	0	2820	0	4168	1	5516	1	6864	1
125	1	1473	1	2821	0	4169	1	5517	1	6865	1

126	1	1474	0	2822	0	4170	1	5518	1	6866	0
127	0	1475	1	2823	0	4171	1	5519	1	6867	0
128	1	1476	1	2824	1	4172	0	5520	1	6868	1
129	0	1477	0	2825	0	4173	0	5521	1	6869	1
130	0	1478	1	2826	1	4174	0	5522	1	6870	0
131	1	1479	1	2827	1	4175	1	5523	1	6871	1
132	0	1480	0	2828	1	4176	1	5524	1	6872	1
133	0	1481	1	2829	0	4177	1	5525	0	6873	1
134	0	1482	0	2830	0	4178	0	5526	1	6874	0
135	1	1483	0	2831	1	4179	0	5527	1	6875	1
136	1	1484	1	2832	1	4180	0	5528	1	6876	1
137	0	1485	0	2833	1	4181	0	5529	0	6877	1
138	1	1486	1	2834	0	4182	0	5530	1	6878	0
139	0	1487	0	2835	1	4183	0	5531	1	6879	1
140	1	1488	0	2836	0	4184	1	5532	1	6880	1
141	0	1489	0	2837	1	4185	0	5533	0	6881	0
142	1	1490	1	2838	1	4186	0	5534	0	6882	1
143	1	1491	0	2839	1	4187	1	5535	0	6883	1
144	1	1492	0	2840	1	4188	1	5536	0	6884	1
145	1	1493	1	2841	1	4189	0	5537	0	6885	0
146	0	1494	1	2842	0	4190	1	5538	0	6886	0
147	1	1495	0	2843	1	4191	1	5539	1	6887	0
148	1	1496	1	2844	1	4192	1	5540	1	6888	1
149	1	1497	0	2845	0	4193	0	5541	1	6889	1
150	0	1498	0	2846	0	4194	0	5542	1	6890	0
151	0	1499	1	2847	0	4195	0	5543	1	6891	0
152	0	1500	1	2848	0	4196	0	5544	1	6892	1
153	1	1501	1	2849	0	4197	0	5545	0	6893	1
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155	0	1503	0	2851	0	4199	0	5547	1	6895	0
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167	0	1515	1	2863	0	4211	1	5559	0	6907	0
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172	0	1520	0	2868	1	4216	0	5564	0	6912	1
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178	1	1526	1	2874	1	4222	0	5570	1	6918	0
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245	1	1593	0	2941	0	4289	0	5637	0	6985	0
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272	0	1620	0	2968	0	4316	0	5664	1	7012	0
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423	0	1771	0	3119	1	4467	0	5815	0	7163	0
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425	1	1773	0	3121	1	4469	0	5817	1	7165	0
426	0	1774	0	3122	0	4470	1	5818	1	7166	1
427	1	1775	1	3123	1	4471	1	5819	0	7167	0
428	0	1776	0	3124	1	4472	0	5820	1	7168	0
429	0	1777	0	3125	1	4473	0	5821	1	7169	1
430	1	1778	1	3126	1	4474	0	5822	1	7170	0
431	0	1779	1	3127	0	4475	1	5823	0	7171	1
432	0	1780	1	3128	1	4476	1	5824	0	7172	0
433	1	1781	1	3129	0	4477	1	5825	0	7173	0

434	1	1782	1	3130	1	4478	0	5826	1	7174	0
435	0	1783	0	3131	1	4479	0	5827	0	7175	0
436	0	1784	1	3132	1	4480	0	5828	0	7176	1
437	1	1785	1	3133	1	4481	0	5829	0	7177	1
438	1	1786	1	3134	0	4482	0	5830	1	7178	1
439	1	1787	1	3135	0	4483	1	5831	0	7179	0
440	0	1788	0	3136	0	4484	1	5832	1	7180	1
441	0	1789	1	3137	1	4485	1	5833	0	7181	0
442	1	1790	1	3138	0	4486	0	5834	1	7182	1
443	1	1791	1	3139	0	4487	1	5835	0	7183	1
444	0	1792	0	3140	1	4488	0	5836	1	7184	1
445	1	1793	0	3141	0	4489	0	5837	1	7185	1
446	1	1794	1	3142	1	4490	1	5838	0	7186	0
447	1	1795	0	3143	1	4491	1	5839	1	7187	1
448	1	1796	1	3144	0	4492	0	5840	1	7188	0
449	1	1797	1	3145	0	4493	0	5841	0	7189	0
450	0	1798	0	3146	1	4494	1	5842	1	7190	0
451	1	1799	1	3147	0	4495	0	5843	0	7191	1
452	1	1800	1	3148	1	4496	0	5844	1	7192	0
453	1	1801	1	3149	0	4497	1	5845	1	7193	1
454	0	1802	1	3150	0	4498	1	5846	1	7194	0
455	0	1803	1	3151	0	4499	0	5847	0	7195	0
456	0	1804	1	3152	1	4500	1	5848	0	7196	0
457	0	1805	0	3153	1	4501	0	5849	0	7197	0
458	0	1806	1	3154	0	4502	1	5850	1	7198	1
459	1	1807	0	3155	1	4503	0	5851	1	7199	1
460	1	1808	1	3156	0	4504	0	5852	0	7200	0
461	1	1809	1	3157	1	4505	1	5853	1	7201	1
462	1	1810	1	3158	0	4506	0	5854	1	7202	0
463	1	1811	1	3159	1	4507	0	5855	1	7203	1
464	0	1812	1	3160	0	4508	1	5856	1	7204	0
465	1	1813	1	3161	0	4509	1	5857	1	7205	0
466	0	1814	0	3162	1	4510	1	5858	0	7206	1
467	1	1815	0	3163	1	4511	0	5859	0	7207	0
468	1	1816	0	3164	0	4512	1	5860	0	7208	0
469	1	1817	0	3165	0	4513	0	5861	1	7209	1
470	0	1818	1	3166	1	4514	0	5862	0	7210	0
471	1	1819	1	3167	1	4515	1	5863	1	7211	0
472	0	1820	0	3168	1	4516	0	5864	0	7212	0
473	1	1821	1	3169	1	4517	1	5865	1	7213	1
474	1	1822	0	3170	1	4518	0	5866	1	7214	1
475	1	1823	0	3171	1	4519	0	5867	0	7215	0
476	0	1824	1	3172	0	4520	0	5868	0	7216	1
477	0	1825	1	3173	1	4521	1	5869	0	7217	1

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479	1	1827	1	3175	0	4523	0	5871	1	7219	1
480	0	1828	0	3176	0	4524	1	5872	1	7220	0
481	0	1829	0	3177	0	4525	1	5873	0	7221	0
482	0	1830	0	3178	0	4526	0	5874	1	7222	1
483	1	1831	1	3179	0	4527	1	5875	1	7223	1
484	1	1832	1	3180	0	4528	1	5876	0	7224	0
485	0	1833	0	3181	0	4529	0	5877	0	7225	1
486	1	1834	0	3182	1	4530	1	5878	1	7226	1
487	1	1835	0	3183	1	4531	0	5879	0	7227	1
488	0	1836	0	3184	1	4532	0	5880	0	7228	1
489	1	1837	0	3185	1	4533	1	5881	0	7229	1
490	0	1838	0	3186	0	4534	1	5882	1	7230	0
491	1	1839	0	3187	1	4535	1	5883	1	7231	0
492	1	1840	1	3188	1	4536	0	5884	1	7232	1
493	0	1841	0	3189	0	4537	1	5885	1	7233	1
494	1	1842	1	3190	1	4538	1	5886	1	7234	1
495	1	1843	0	3191	0	4539	1	5887	0	7235	0
496	1	1844	0	3192	0	4540	0	5888	1	7236	0
497	1	1845	1	3193	1	4541	1	5889	0	7237	0
498	0	1846	0	3194	1	4542	0	5890	0	7238	1
499	0	1847	1	3195	1	4543	1	5891	1	7239	1
500	1	1848	1	3196	0	4544	0	5892	0	7240	0
501	0	1849	0	3197	0	4545	0	5893	1	7241	1
502	1	1850	0	3198	0	4546	0	5894	1	7242	0
503	0	1851	1	3199	0	4547	0	5895	1	7243	0
504	1	1852	1	3200	0	4548	1	5896	0	7244	1
505	1	1853	1	3201	0	4549	1	5897	0	7245	1
506	0	1854	0	3202	1	4550	0	5898	1	7246	0
507	1	1855	1	3203	0	4551	1	5899	0	7247	0
508	1	1856	0	3204	1	4552	0	5900	1	7248	1
509	1	1857	1	3205	1	4553	0	5901	1	7249	0
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511	1	1859	0	3207	1	4555	0	5903	1	7251	1
512	0	1860	0	3208	1	4556	1	5904	0	7252	0
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515	0	1863	1	3211	1	4559	1	5907	1	7255	0
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517	1	1865	1	3213	1	4561	0	5909	0	7257	1
518	0	1866	1	3214	0	4562	0	5910	1	7258	0
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520	1	1868	0	3216	0	4564	1	5912	0	7260	1
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522	0	1870	1	3218	1	4566	1	5914	1	7262	1
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524	1	1872	0	3220	1	4568	1	5916	0	7264	1
525	0	1873	0	3221	1	4569	0	5917	0	7265	0
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527	0	1875	1	3223	0	4571	1	5919	1	7267	0
528	0	1876	1	3224	0	4572	1	5920	1	7268	1
529	1	1877	0	3225	1	4573	1	5921	0	7269	1
530	1	1878	0	3226	1	4574	0	5922	1	7270	0
531	0	1879	0	3227	0	4575	0	5923	1	7271	1
532	0	1880	1	3228	0	4576	0	5924	1	7272	0
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534	1	1882	0	3230	1	4578	1	5926	1	7274	0
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536	0	1884	0	3232	0	4580	0	5928	0	7276	1
537	1	1885	0	3233	1	4581	1	5929	0	7277	0
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539	0	1887	0	3235	0	4583	0	5931	1	7279	0
540	0	1888	0	3236	1	4584	0	5932	0	7280	1
541	0	1889	0	3237	0	4585	0	5933	1	7281	1
542	1	1890	0	3238	0	4586	1	5934	0	7282	0
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546	0	1894	1	3242	1	4590	0	5938	0	7286	0
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552	1	1900	1	3248	0	4596	1	5944	1	7292	0
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554	1	1902	0	3250	0	4598	0	5946	1	7294	1
555	1	1903	0	3251	0	4599	0	5947	0	7295	0
556	1	1904	1	3252	0	4600	0	5948	0	7296	1
557	0	1905	0	3253	1	4601	0	5949	0	7297	0
558	1	1906	0	3254	0	4602	1	5950	1	7298	0
559	1	1907	0	3255	0	4603	1	5951	0	7299	0
560	1	1908	0	3256	1	4604	1	5952	0	7300	1
561	0	1909	0	3257	0	4605	1	5953	1	7301	1
562	1	1910	0	3258	1	4606	1	5954	0	7302	1
563	0	1911	0	3259	1	4607	1	5955	1	7303	0
564	1	1912	0	3260	1	4608	1	5956	0	7304	0
565	1	1913	0	3261	1	4609	0	5957	0	7305	1

566	1	1914	1	3262	1	4610	1	5958	1	7306	0
567	0	1915	1	3263	0	4611	0	5959	1	7307	0
568	0	1916	1	3264	0	4612	0	5960	0	7308	1
569	1	1917	0	3265	0	4613	0	5961	1	7309	1
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571	1	1919	0	3267	0	4615	0	5963	0	7311	1
572	1	1920	1	3268	1	4616	0	5964	0	7312	1
573	0	1921	1	3269	0	4617	0	5965	0	7313	0
574	0	1922	0	3270	1	4618	1	5966	0	7314	0
575	0	1923	1	3271	0	4619	1	5967	1	7315	1
576	1	1924	1	3272	0	4620	0	5968	0	7316	1
577	1	1925	0	3273	0	4621	1	5969	1	7317	1
578	1	1926	1	3274	1	4622	0	5970	1	7318	0
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580	1	1928	0	3276	0	4624	0	5972	0	7320	1
581	0	1929	0	3277	1	4625	0	5973	1	7321	0
582	1	1930	1	3278	0	4626	1	5974	0	7322	0
583	1	1931	1	3279	0	4627	1	5975	1	7323	0
584	0	1932	0	3280	0	4628	0	5976	0	7324	1
585	1	1933	0	3281	0	4629	1	5977	0	7325	0
586	0	1934	0	3282	0	4630	1	5978	0	7326	1
587	0	1935	1	3283	1	4631	0	5979	0	7327	0
588	0	1936	1	3284	1	4632	1	5980	0	7328	1
589	1	1937	1	3285	0	4633	0	5981	0	7329	1
590	0	1938	1	3286	0	4634	1	5982	1	7330	0
591	0	1939	0	3287	0	4635	0	5983	0	7331	1
592	0	1940	0	3288	0	4636	1	5984	0	7332	0
593	1	1941	1	3289	0	4637	1	5985	0	7333	0
594	1	1942	1	3290	1	4638	0	5986	1	7334	1
595	1	1943	1	3291	1	4639	1	5987	1	7335	1
596	0	1944	1	3292	0	4640	1	5988	0	7336	0
597	1	1945	0	3293	0	4641	1	5989	1	7337	1
598	1	1946	0	3294	1	4642	0	5990	0	7338	1
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601	0	1949	0	3297	0	4645	1	5993	1	7341	0
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603	0	1951	0	3299	0	4647	0	5995	0	7343	0
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606	0	1954	0	3302	0	4650	0	5998	1	7346	1
607	0	1955	1	3303	0	4651	1	5999	0	7347	0
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610	1	1958	1	3306	0	4654	1	6002	0	7350	1
611	1	1959	0	3307	0	4655	0	6003	0	7351	0
612	0	1960	0	3308	0	4656	1	6004	0	7352	0
613	1	1961	1	3309	1	4657	1	6005	0	7353	1
614	0	1962	0	3310	0	4658	1	6006	1	7354	1
615	1	1963	0	3311	1	4659	0	6007	1	7355	1
616	1	1964	1	3312	1	4660	1	6008	0	7356	0
617	0	1965	0	3313	1	4661	0	6009	0	7357	0
618	1	1966	0	3314	0	4662	1	6010	1	7358	0
619	1	1967	0	3315	1	4663	0	6011	0	7359	0
620	0	1968	0	3316	1	4664	0	6012	1	7360	0
621	1	1969	0	3317	0	4665	1	6013	1	7361	0
622	1	1970	1	3318	1	4666	1	6014	0	7362	0
623	1	1971	1	3319	1	4667	0	6015	0	7363	0
624	0	1972	1	3320	0	4668	1	6016	0	7364	1
625	1	1973	0	3321	0	4669	1	6017	1	7365	1
626	1	1974	1	3322	1	4670	0	6018	0	7366	1
627	1	1975	1	3323	0	4671	0	6019	1	7367	1
628	0	1976	1	3324	1	4672	1	6020	1	7368	1
629	1	1977	0	3325	0	4673	1	6021	0	7369	0
630	0	1978	1	3326	1	4674	1	6022	1	7370	0
631	1	1979	1	3327	1	4675	1	6023	1	7371	1
632	0	1980	1	3328	0	4676	1	6024	0	7372	0
633	1	1981	0	3329	1	4677	1	6025	0	7373	0
634	0	1982	0	3330	0	4678	1	6026	0	7374	0
635	0	1983	1	3331	0	4679	1	6027	1	7375	1
636	0	1984	1	3332	0	4680	1	6028	1	7376	1
637	0	1985	1	3333	1	4681	0	6029	0	7377	1
638	0	1986	0	3334	1	4682	1	6030	0	7378	0
639	0	1987	0	3335	0	4683	0	6031	0	7379	0
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641	0	1989	0	3337	0	4685	1	6033	0	7381	1
642	0	1990	1	3338	0	4686	0	6034	1	7382	1
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644	1	1992	0	3340	0	4688	0	6036	0	7384	1
645	0	1993	0	3341	0	4689	0	6037	1	7385	1
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650	0	1998	0	3346	0	4694	0	6042	0	7390	0
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652	0	2000	0	3348	0	4696	0	6044	0	7392	1
653	0	2001	1	3349	1	4697	0	6045	1	7393	1

654	1	2002	0	3350	1	4698	0	6046	1	7394	0
655	0	2003	0	3351	1	4699	1	6047	1	7395	1
656	1	2004	1	3352	1	4700	1	6048	0	7396	0
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658	1	2006	0	3354	1	4702	1	6050	0	7398	1
659	0	2007	0	3355	0	4703	0	6051	1	7399	0
660	1	2008	0	3356	1	4704	0	6052	0	7400	0
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662	0	2010	1	3358	0	4706	0	6054	1	7402	1
663	0	2011	1	3359	0	4707	0	6055	0	7403	1
664	1	2012	1	3360	1	4708	0	6056	0	7404	0
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666	0	2014	1	3362	1	4710	0	6058	0	7406	1
667	1	2015	1	3363	0	4711	1	6059	0	7407	0
668	0	2016	1	3364	0	4712	0	6060	0	7408	1
669	0	2017	0	3365	1	4713	1	6061	1	7409	0
670	0	2018	1	3366	0	4714	1	6062	0	7410	1
671	0	2019	0	3367	1	4715	1	6063	0	7411	0
672	0	2020	1	3368	1	4716	1	6064	1	7412	0
673	0	2021	0	3369	0	4717	1	6065	0	7413	1
674	1	2022	1	3370	0	4718	0	6066	0	7414	1
675	0	2023	1	3371	1	4719	1	6067	0	7415	0
676	0	2024	1	3372	1	4720	0	6068	1	7416	0
677	0	2025	0	3373	1	4721	0	6069	0	7417	0
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679	0	2027	1	3375	0	4723	1	6071	1	7419	1
680	1	2028	1	3376	1	4724	0	6072	0	7420	1
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687	1	2035	1	3383	1	4731	0	6079	0	7427	0
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693	0	2041	1	3389	1	4737	0	6085	1	7433	1
694	1	2042	1	3390	0	4738	1	6086	1	7434	0
695	1	2043	0	3391	1	4739	0	6087	0	7435	1
696	1	2044	0	3392	0	4740	1	6088	0	7436	1
697	1	2045	0	3393	1	4741	0	6089	0	7437	1

698	0	2046	0	3394	1	4742	0	6090	1	7438	0
699	1	2047	1	3395	0	4743	1	6091	0	7439	0
700	1	2048	1	3396	1	4744	0	6092	0	7440	1
701	1	2049	1	3397	1	4745	1	6093	1	7441	1
702	0	2050	1	3398	1	4746	0	6094	1	7442	1
703	1	2051	1	3399	1	4747	1	6095	0	7443	1
704	1	2052	1	3400	1	4748	0	6096	1	7444	1
705	0	2053	0	3401	0	4749	1	6097	0	7445	0
706	0	2054	1	3402	0	4750	0	6098	0	7446	1
707	0	2055	1	3403	0	4751	0	6099	1	7447	1
708	0	2056	0	3404	0	4752	0	6100	1	7448	0
709	1	2057	1	3405	0	4753	0	6101	1	7449	0
710	1	2058	0	3406	0	4754	1	6102	0	7450	0
711	0	2059	1	3407	0	4755	0	6103	0	7451	0
712	0	2060	0	3408	0	4756	0	6104	1	7452	1
713	1	2061	1	3409	0	4757	1	6105	1	7453	1
714	0	2062	1	3410	0	4758	0	6106	1	7454	1
715	1	2063	0	3411	0	4759	0	6107	0	7455	0
716	1	2064	0	3412	0	4760	0	6108	1	7456	0
717	1	2065	0	3413	0	4761	1	6109	1	7457	1
718	0	2066	0	3414	0	4762	0	6110	1	7458	1
719	0	2067	0	3415	0	4763	1	6111	0	7459	0
720	0	2068	1	3416	1	4764	1	6112	1	7460	1
721	0	2069	0	3417	1	4765	1	6113	0	7461	1
722	1	2070	1	3418	0	4766	1	6114	1	7462	0
723	1	2071	1	3419	1	4767	0	6115	1	7463	1
724	1	2072	1	3420	1	4768	1	6116	1	7464	1
725	1	2073	0	3421	1	4769	1	6117	0	7465	0
726	0	2074	1	3422	0	4770	0	6118	1	7466	1
727	0	2075	0	3423	0	4771	0	6119	1	7467	1
728	1	2076	1	3424	1	4772	1	6120	0	7468	1
729	0	2077	1	3425	1	4773	1	6121	0	7469	1
730	0	2078	0	3426	0	4774	0	6122	1	7470	1
731	1	2079	1	3427	0	4775	0	6123	1	7471	1
732	1	2080	1	3428	0	4776	0	6124	0	7472	1
733	0	2081	0	3429	0	4777	1	6125	1	7473	1
734	1	2082	1	3430	1	4778	0	6126	0	7474	0
735	0	2083	0	3431	1	4779	0	6127	0	7475	0
736	1	2084	0	3432	0	4780	1	6128	1	7476	1
737	1	2085	1	3433	1	4781	0	6129	0	7477	0
738	1	2086	0	3434	0	4782	0	6130	0	7478	1
739	1	2087	0	3435	0	4783	0	6131	1	7479	0
740	0	2088	0	3436	1	4784	1	6132	1	7480	1
741	1	2089	0	3437	0	4785	1	6133	1	7481	0

742	0	2090	0	3438	1	4786	1	6134	1	7482	1
743	0	2091	1	3439	0	4787	1	6135	1	7483	0
744	0	2092	0	3440	0	4788	1	6136	1	7484	0
745	0	2093	1	3441	1	4789	1	6137	0	7485	1
746	1	2094	1	3442	0	4790	1	6138	0	7486	0
747	1	2095	1	3443	0	4791	1	6139	1	7487	1
748	1	2096	1	3444	1	4792	1	6140	1	7488	0
749	0	2097	0	3445	1	4793	1	6141	0	7489	0
750	1	2098	1	3446	1	4794	0	6142	0	7490	0
751	1	2099	0	3447	0	4795	0	6143	0	7491	1
752	1	2100	0	3448	0	4796	0	6144	1	7492	1
753	0	2101	0	3449	0	4797	0	6145	0	7493	1
754	0	2102	1	3450	0	4798	1	6146	1	7494	1
755	0	2103	1	3451	1	4799	1	6147	0	7495	1
756	0	2104	1	3452	1	4800	1	6148	1	7496	1
757	0	2105	1	3453	1	4801	1	6149	0	7497	1
758	1	2106	0	3454	0	4802	0	6150	1	7498	1
759	0	2107	0	3455	1	4803	0	6151	1	7499	1
760	0	2108	1	3456	1	4804	0	6152	0	7500	1
761	1	2109	0	3457	1	4805	1	6153	1	7501	0
762	0	2110	0	3458	1	4806	1	6154	1	7502	1
763	0	2111	0	3459	0	4807	0	6155	1	7503	0
764	0	2112	1	3460	1	4808	1	6156	0	7504	1
765	0	2113	1	3461	1	4809	0	6157	0	7505	0
766	0	2114	0	3462	0	4810	0	6158	1	7506	0
767	0	2115	0	3463	1	4811	0	6159	0	7507	0
768	0	2116	0	3464	1	4812	0	6160	1	7508	1
769	0	2117	1	3465	1	4813	0	6161	0	7509	0
770	1	2118	1	3466	1	4814	1	6162	1	7510	1
771	0	2119	1	3467	0	4815	1	6163	0	7511	0
772	1	2120	0	3468	0	4816	0	6164	1	7512	0
773	1	2121	1	3469	1	4817	1	6165	0	7513	0
774	0	2122	0	3470	0	4818	0	6166	1	7514	1
775	1	2123	1	3471	0	4819	0	6167	1	7515	1
776	1	2124	1	3472	1	4820	1	6168	1	7516	0
777	0	2125	0	3473	1	4821	1	6169	1	7517	1
778	0	2126	1	3474	1	4822	1	6170	1	7518	1
779	0	2127	1	3475	0	4823	0	6171	0	7519	0
780	0	2128	0	3476	0	4824	0	6172	0	7520	0
781	1	2129	0	3477	0	4825	0	6173	0	7521	1
782	0	2130	0	3478	0	4826	0	6174	1	7522	1
783	1	2131	0	3479	1	4827	1	6175	1	7523	1
784	1	2132	0	3480	0	4828	0	6176	0	7524	0
785	0	2133	0	3481	1	4829	1	6177	0	7525	0

786	1	2134	0	3482	0	4830	1	6178	0	7526	1
787	0	2135	0	3483	0	4831	1	6179	1	7527	0
788	1	2136	1	3484	1	4832	1	6180	1	7528	1
789	0	2137	0	3485	1	4833	1	6181	1	7529	0
790	0	2138	0	3486	0	4834	1	6182	1	7530	0
791	0	2139	0	3487	0	4835	1	6183	1	7531	1
792	0	2140	1	3488	1	4836	1	6184	1	7532	0
793	0	2141	1	3489	1	4837	0	6185	0	7533	0
794	0	2142	1	3490	0	4838	0	6186	0	7534	1
795	1	2143	0	3491	0	4839	1	6187	1	7535	1
796	0	2144	1	3492	1	4840	0	6188	0	7536	0
797	1	2145	0	3493	0	4841	1	6189	0	7537	0
798	0	2146	0	3494	1	4842	1	6190	0	7538	1
799	1	2147	0	3495	0	4843	1	6191	0	7539	0
800	1	2148	0	3496	1	4844	0	6192	1	7540	0
801	1	2149	0	3497	1	4845	0	6193	1	7541	1
802	1	2150	0	3498	1	4846	0	6194	0	7542	1
803	1	2151	0	3499	0	4847	1	6195	0	7543	1
804	0	2152	1	3500	1	4848	0	6196	1	7544	1
805	1	2153	1	3501	0	4849	0	6197	1	7545	0
806	1	2154	0	3502	1	4850	1	6198	1	7546	0
807	0	2155	0	3503	0	4851	0	6199	0	7547	0
808	1	2156	0	3504	1	4852	1	6200	0	7548	1
809	1	2157	0	3505	0	4853	0	6201	1	7549	0
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811	0	2159	1	3507	1	4855	1	6203	1	7551	0
812	0	2160	1	3508	0	4856	0	6204	0	7552	0
813	0	2161	1	3509	1	4857	1	6205	1	7553	1
814	0	2162	0	3510	1	4858	0	6206	1	7554	0
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816	0	2164	1	3512	1	4860	1	6208	0	7556	1
817	1	2165	1	3513	1	4861	0	6209	0	7557	0
818	0	2166	1	3514	1	4862	1	6210	0	7558	1
819	1	2167	1	3515	1	4863	0	6211	1	7559	0
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821	1	2169	1	3517	1	4865	0	6213	0	7561	0
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823	1	2171	0	3519	0	4867	0	6215	0	7563	0
824	0	2172	1	3520	0	4868	1	6216	0	7564	0
825	1	2173	1	3521	1	4869	1	6217	1	7565	1
826	1	2174	1	3522	0	4870	1	6218	0	7566	0
827	0	2175	0	3523	0	4871	1	6219	1	7567	0
828	0	2176	1	3524	1	4872	1	6220	1	7568	0
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831	1	2179	1	3527	1	4875	0	6223	1	7571	0
832	1	2180	0	3528	1	4876	0	6224	1	7572	1
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835	1	2183	1	3531	1	4879	1	6227	1	7575	0
836	0	2184	1	3532	1	4880	1	6228	0	7576	1
837	1	2185	0	3533	1	4881	0	6229	1	7577	0
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839	1	2187	0	3535	1	4883	1	6231	0	7579	0
840	1	2188	0	3536	1	4884	1	6232	1	7580	0
841	0	2189	1	3537	1	4885	0	6233	1	7581	1
842	0	2190	0	3538	1	4886	1	6234	0	7582	1
843	0	2191	1	3539	1	4887	0	6235	1	7583	1
844	0	2192	1	3540	0	4888	0	6236	0	7584	0
845	0	2193	0	3541	0	4889	1	6237	1	7585	0
846	1	2194	0	3542	0	4890	1	6238	1	7586	0
847	0	2195	1	3543	1	4891	1	6239	0	7587	0
848	1	2196	0	3544	0	4892	1	6240	1	7588	1
849	1	2197	1	3545	1	4893	1	6241	1	7589	0
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852	0	2200	1	3548	0	4896	1	6244	0	7592	1
853	1	2201	1	3549	0	4897	0	6245	1	7593	0
854	0	2202	0	3550	0	4898	0	6246	0	7594	1
855	1	2203	1	3551	1	4899	1	6247	1	7595	1
856	0	2204	1	3552	1	4900	0	6248	0	7596	0
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858	0	2206	0	3554	0	4902	0	6250	1	7598	0
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861	0	2209	1	3557	0	4905	0	6253	1	7601	0
862	1	2210	1	3558	0	4906	1	6254	0	7602	1
863	0	2211	1	3559	0	4907	0	6255	0	7603	1
864	1	2212	1	3560	0	4908	1	6256	0	7604	0
865	0	2213	1	3561	1	4909	0	6257	1	7605	1
866	1	2214	0	3562	1	4910	1	6258	0	7606	0
867	1	2215	0	3563	0	4911	0	6259	0	7607	0
868	1	2216	1	3564	0	4912	1	6260	0	7608	0
869	0	2217	0	3565	0	4913	1	6261	0	7609	1
870	0	2218	0	3566	0	4914	0	6262	0	7610	1
871	1	2219	0	3567	1	4915	0	6263	0	7611	1
872	1	2220	0	3568	1	4916	0	6264	1	7612	0
873	1	2221	0	3569	0	4917	0	6265	1	7613	1

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875	0	2223	1	3571	1	4919	0	6267	0	7615	0
876	1	2224	1	3572	1	4920	1	6268	0	7616	0
877	0	2225	1	3573	1	4921	1	6269	0	7617	1
878	0	2226	1	3574	1	4922	1	6270	1	7618	1
879	1	2227	0	3575	1	4923	0	6271	0	7619	1
880	0	2228	1	3576	0	4924	1	6272	0	7620	1
881	1	2229	0	3577	0	4925	1	6273	0	7621	0
882	0	2230	0	3578	0	4926	1	6274	0	7622	1
883	1	2231	1	3579	0	4927	0	6275	0	7623	1
884	0	2232	1	3580	1	4928	1	6276	1	7624	0
885	1	2233	0	3581	1	4929	0	6277	0	7625	1
886	0	2234	0	3582	0	4930	0	6278	1	7626	1
887	0	2235	0	3583	0	4931	1	6279	1	7627	1
888	1	2236	0	3584	1	4932	1	6280	0	7628	1
889	1	2237	0	3585	1	4933	0	6281	1	7629	0
890	1	2238	1	3586	0	4934	0	6282	1	7630	1
891	0	2239	1	3587	1	4935	1	6283	0	7631	1
892	1	2240	0	3588	0	4936	1	6284	0	7632	1
893	0	2241	0	3589	0	4937	0	6285	0	7633	0
894	1	2242	1	3590	0	4938	0	6286	0	7634	1
895	1	2243	0	3591	1	4939	1	6287	0	7635	1
896	1	2244	1	3592	1	4940	0	6288	1	7636	0
897	0	2245	1	3593	0	4941	0	6289	1	7637	0
898	0	2246	1	3594	0	4942	1	6290	0	7638	1
899	1	2247	0	3595	0	4943	0	6291	0	7639	1
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901	0	2249	1	3597	0	4945	0	6293	1	7641	1
902	1	2250	0	3598	0	4946	0	6294	0	7642	0
903	1	2251	1	3599	1	4947	0	6295	0	7643	0
904	0	2252	1	3600	0	4948	1	6296	1	7644	0
905	1	2253	0	3601	1	4949	0	6297	0	7645	1
906	1	2254	0	3602	1	4950	0	6298	0	7646	0
907	0	2255	1	3603	0	4951	0	6299	1	7647	0
908	0	2256	0	3604	1	4952	1	6300	0	7648	0
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912	1	2260	1	3608	1	4956	1	6304	1	7652	0
913	1	2261	0	3609	1	4957	1	6305	0	7653	0
914	1	2262	1	3610	0	4958	1	6306	1	7654	1
915	0	2263	0	3611	0	4959	0	6307	0	7655	1
916	1	2264	0	3612	1	4960	0	6308	0	7656	0
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918	0	2266	0	3614	0	4962	0	6310	0	7658	1
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921	1	2269	1	3617	0	4965	0	6313	0	7661	1
922	0	2270	1	3618	1	4966	0	6314	1	7662	1
923	1	2271	0	3619	0	4967	0	6315	0	7663	1
924	1	2272	0	3620	1	4968	0	6316	1	7664	0
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927	1	2275	0	3623	1	4971	1	6319	1	7667	1
928	0	2276	1	3624	0	4972	1	6320	1	7668	1
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931	1	2279	0	3627	0	4975	0	6323	1	7671	1
932	1	2280	0	3628	1	4976	0	6324	1	7672	1
933	0	2281	0	3629	0	4977	0	6325	0	7673	0
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935	0	2283	0	3631	1	4979	0	6327	0	7675	1
936	1	2284	0	3632	0	4980	1	6328	0	7676	0
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938	1	2286	0	3634	0	4982	1	6330	0	7678	0
939	0	2287	1	3635	0	4983	0	6331	1	7679	0
940	0	2288	1	3636	0	4984	1	6332	0	7680	0
941	1	2289	0	3637	0	4985	1	6333	0	7681	0
942	1	2290	1	3638	0	4986	1	6334	0	7682	1
943	0	2291	0	3639	1	4987	0	6335	0	7683	1
944	0	2292	1	3640	1	4988	1	6336	1	7684	0
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946	1	2294	0	3642	1	4990	0	6338	1	7686	1
947	1	2295	0	3643	0	4991	0	6339	1	7687	1
948	1	2296	0	3644	1	4992	0	6340	0	7688	1
949	1	2297	0	3645	0	4993	0	6341	1	7689	0
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951	0	2299	0	3647	1	4995	1	6343	0	7691	0
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954	1	2302	0	3650	0	4998	0	6346	0	7694	1
955	1	2303	0	3651	0	4999	0	6347	1	7695	0
956	1	2304	0	3652	1	5000	1	6348	0	7696	1
957	0	2305	1	3653	0	5001	0	6349	1	7697	0
958	1	2306	0	3654	0	5002	1	6350	1	7698	0
959	1	2307	0	3655	0	5003	0	6351	0	7699	1
960	0	2308	1	3656	1	5004	0	6352	0	7700	0
961	1	2309	1	3657	1	5005	1	6353	1	7701	1

962	0	2310	0	3658	0	5006	1	6354	0	7702	0
963	1	2311	1	3659	1	5007	0	6355	0	7703	0
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976	0	2324	0	3672	0	5020	1	6368	1	7716	0
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1241	0	2589	1	3937	1	5285	1	6633	1	7981	1
1242	1	2590	1	3938	0	5286	0	6634	1	7982	0
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UNIVERSITÉ DE STRASBOURG, CNRS, IRMA UMR 7501, F-67000 STRASBOURG, FRANCE
Email address: guoniu.han@unistra.fr

SCHOOL OF MATHEMATICS AND STATISTICS, HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, WUHAN, P.R. CHINA
Email address: huyining@hust.edu.cn