

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z^3 + 1, z^3 + z^2 + 1)$$

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ABSTRACT. The continued fraction conjecture claims that the continued fraction defined by the (a, b) -Thue-Morse sequence is algebraic over $\mathbb{F}_2(x)$ for all pairs of distinct elements (a, b) in $\mathbb{F}_2[x] \setminus \mathbb{F}_2$. In this paper we prove the conjecture for $(a, b) = (z^3 + 1, z^3 + z^2 + 1)$.

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 $(a, b) = (z^3 + 1, z^3 + z^2 + 1)$, 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 $\text{CF}(a, b)$,

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{16} + z^{15} + z^{14} + z^8 + z^6 + z^5 + z^4 + z^2 + 1, \\ p_1(z) &= z^{20} + z^{19} + z^{18} + z^{17} + z^{16} + z^{12} + z^8 + z^7 + z^4 + z^2, \\ p_2(z) &= z^{24} + z^{20} + z^{16} + z^{14} + z^4 + 1, \\ p_3(z) &= z^{20} + z^{19} + z^{18} + z^{17} + z^{16} + z^{12} + z^8 + z^7 + z^4 + z^2, \\ p_4(z) &= z^{18} + z^{17} + z^{15} + z^8 + z^6 + z^5 + z^2 + 1, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{17} + z^{16} + z^{15} + z^{14} + z^6 + z^5 + z^4 + z^2 + 1, \\ p_1(z) &= z^{20} + z^{19} + z^{18} + z^{17} + z^{16} + z^{12} + z^8 + z^7 + z^4 + z^2, \\ p_2(z) &= z^{24} + z^{20} + z^{16} + z^{14} + z^4 + 1, \\ p_3(z) &= z^{20} + z^{19} + z^{18} + z^{17} + z^{16} + z^{12} + z^8 + z^7 + z^4 + z^2, \\ p_4(z) &= z^{18} + z^{17} + z^{15} + z^6 + z^5 + z^2 + 1. \end{aligned}$$

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 24 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.*

$$\begin{aligned} M^e[:12u] &= M^e[:6u] + x^u M^e[:5u] + x^{4u} M^e[:2u] + x^u M^e[:6u] + x^{2u} M^e[:5u] \\ &\quad + x^{5u} M^e[:2u] + x^{2u} M^e[:6u] + x^{3u} M^e[:5u] + x^{6u} M^e[:2u] \\ &\quad + x^{3u} M^e[:6u] + x^{4u} M^e[:5u] + x^{7u} M^e[:2u] + x^{5u} M^e[:6u] \\ &\quad + x^{6u} M^e[:5u] + x^{9u} M^e[:2u] + x^{6u} M^e[:6u] + x^{10u} M^e[:2u] \\ &\quad + x^{11u} M^e[:u] + (x^{6u} + x^{7u} + x^{8u} + x^{9u} + x^{11u}) R^e, \\ W^e[:12u] &= W^e[:6u] + x^u W^e[:5u] + x^{4u} W^e[:2u] + x^u W^e[:6u] + x^{2u} W^e[:5u] \end{aligned}$$

$$\begin{aligned}
& + x^{5u}W^e[:2u] + x^{2u}W^e[:6u] + x^{3u}W^e[:5u] + x^{6u}W^e[:2u] \\
& + x^{3u}W^e[:6u] + x^{4u}W^e[:5u] + x^{7u}W^e[:2u] + x^{5u}W^e[:6u] \\
& + x^{6u}W^e[:5u] + x^{9u}W^e[:2u] + x^{6u}W^e[:6u] + x^{10u}W^e[:2u] \\
& + x^{11u}W^e[:u] + (x^{6u} + x^{7u} + x^{8u} + x^{9u} + x^{11u})R^e.
\end{aligned}$$

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

$$\begin{aligned}
M^o[:12u] &= M^o[:6u] + x^u M^o[:5u] + x^{4u} M^o[:2u] + x^u M^o[:6u] + x^{2u} M^o[:5u] \\
&+ x^{5u} M^o[:2u] + x^{2u} M^o[:6u] + x^{3u} M^o[:5u] + x^{6u} M^o[:2u] \\
&+ x^{3u} M^o[:6u] + x^{4u} M^o[:5u] + x^{7u} M^o[:2u] + x^{5u} M^o[:6u] \\
&+ x^{6u} M^o[:5u] + x^{9u} M^o[:2u] + x^{6u} M^o[:6u] + x^{10u} M^o[:2u] \\
&+ x^{11u} M^o[:u] + (x^{6u} + x^{7u} + x^{8u} + x^{9u} + x^{11u})R^o, \\
W^o[:12u] &= W^o[:6u] + x^u W^o[:5u] + x^{4u} W^o[:2u] + x^u W^o[:6u] + x^{2u} W^o[:5u] \\
&+ x^{5u} W^o[:2u] + x^{2u} W^o[:6u] + x^{3u} W^o[:5u] + x^{6u} W^o[:2u] \\
&+ x^{3u} W^o[:6u] + x^{4u} W^o[:5u] + x^{7u} W^o[:2u] + x^{5u} W^o[:6u] \\
&+ x^{6u} W^o[:5u] + x^{9u} W^o[:2u] + x^{6u} W^o[:6u] + x^{10u} W^o[:2u] \\
&+ x^{11u} W^o[:u] + (x^{6u} + x^{7u} + x^{8u} + x^{9u} + x^{11u})R^o.
\end{aligned}$$

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

$$\begin{aligned}
(2.7) \quad 0 &= T[[w]_2] + T[[10w]_2] + T[[101w]_2] + T[[110w]_2], \\
0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2]
\end{aligned}$$

$$(2.8) \quad + T[[111w]_2],$$

$$(2.9) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2],$$

$$(2.10) \quad 0 = T[[w]_2] + T[[100w]_2] + T[[1001w]_2],$$

$$(2.11) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 1 = T[[w]_2] + T[[10w]_2] + T[[101w]_2] + T[[110w]_2],$$

$$1 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2]$$

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

$$(2.15) \quad 1 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2],$$

$$(2.16) \quad 1 = T[[w]_2] + T[[100w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 1 = T[[w]_2] + T[[1w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8089 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

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

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

$$(2.19) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 110)),$$

$$0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

$$(2.20) \quad + \tau(A(s, 111)),$$

$$0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

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

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.24) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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

$$(2.25) \quad 1 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 110)),$$

$$1 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

$$(2.26) \quad + \tau(A(s, 111)),$$

$$1 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

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

$$(2.28) \quad 1 = \tau(A(s, \epsilon)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.30) \quad 1 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{40}), E_{40}) = (A(i, 0^{16}), E_{16})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 20$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

We give the proof of

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

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

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

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

$$W^e[:12v] M^e[:12v] + x^{2v} W^e[:10v] M^e[:10v] + x^{8v} W^e[:4v] M^e[:4v].$$

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

$$\begin{aligned}q_0(x) &= x^{24} + x^{22} + x^{20} + x^{19} + x^{18} + x^{16} + x^{10} + x^9 + x^8 + x^7 + x^6, \\ q_1(x) &= x^{22} + x^{20} + x^{17} + x^{16} + x^{12} + x^8 + x^7 + x^6 + x^5 + x^4, \\ q_2(x) &= x^{24} + x^{20} + x^{10} + x^8 + x^4 + 1, \\ q_3(x) &= x^{22} + x^{20} + x^{17} + x^{16} + x^{12} + x^8 + x^7 + x^6 + x^5 + x^4, \\ q_4(x) &= x^{24} + x^{22} + x^{19} + x^{18} + x^{16} + x^9 + x^7 + x^6.\end{aligned}$$

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 24 initial terms to determine the solutions uniquely are given below.

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

$$\begin{aligned}p_0(x) &= x^{126} + x^{122} + x^{120} + x^{118} + x^{112} + x^{108} + x^{104} + x^{102} + x^{94} + x^{92} \\ &\quad + x^{86} + x^{84} + x^{82} + x^{76} + x^{72} + x^{70} + x^{62} + x^{52} + x^{50} + x^{48} + x^{44} \\ &\quad + x^{42} + x^{40} + x^{38} + x^{36},\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{122} + x^{116} + x^{114} + x^{108} + x^{104} + x^{96} + x^{86} + x^{84} + x^{78} + x^{74} + x^{72} \\
&\quad + x^{68} + x^{66} + x^{64} + x^{60} + x^{48} + x^{46} + x^{44} + x^{42} + x^{32} + x^{30} + x^{26} \\
&\quad + x^{24} + x^{20}, \\
p_6(x) &= x^{122} + x^{118} + x^{114} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{94} \\
&\quad + x^{92} + x^{88} + x^{84} + x^{82} + x^{76} + x^{74} + x^{72} + x^{70} + x^{62} + x^{58} + x^{56} \\
&\quad + x^{54} + x^{50} + x^{46} + x^{40} + x^{38} + x^{34} + x^{32} + x^{26} + x^{24} + x^{20} + x^{18} \\
&\quad + x^{16} + x^{10} + x^6 + 1, \\
p_9(x) &= x^{122} + x^{116} + x^{112} + x^{110} + x^{104} + x^{102} + x^{100} + x^{94} + x^{92} + x^{88} \\
&\quad + x^{84} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{58} + x^{48} + x^{46} + x^{42} \\
&\quad + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{18} + x^{16} + x^{12} + x^{10} + x^8, \\
p_{12}(x) &= x^{126} + x^{120} + x^{110} + x^{104} + x^{102} + x^{96} + x^{46} + x^{40} + x^{22} + x^{16} + x^{14} \\
&\quad + x^8 + x^6 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{121} + x^{117} + x^{116} + x^{113} + x^{112} + x^{111} + x^{107} + x^{105} \\
&\quad + x^{104} + x^{103} + x^{102} + x^{97} + x^{95} + x^{94} + x^{91} + x^{90} + x^{89} + x^{85} + x^{82} \\
&\quad + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} + x^{67} + x^{64} \\
&\quad + x^{60} + x^{58} + x^{56} + x^{52} + x^{51} + x^{48} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} \\
&\quad + x^{37} + x^{36}, \\
p_3(x) &= x^{108} + x^{104} + x^{94} + x^{92} + x^{88} + x^{84} + x^{68} + x^{64} + x^{60} + x^{56} + x^{54} \\
&\quad + x^{52} + x^{48} + x^{46} + x^{40} + x^{36}, \\
p_6(x) &= x^{114} + x^{112} + x^{110} + x^{109} + x^{105} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\
&\quad + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} \\
&\quad + x^{73} + x^{70} + x^{69} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} \\
&\quad + x^{56} + x^{54} + x^{51} + x^{50} + x^{44} + x^{39} + x^{37} + x^{35} + x^{34} + x^{31} + x^{30} \\
&\quad + x^{29} + x^{27} + x^{26} + x^{25} + x^{24}, \\
p_9(x) &= x^{120} + x^{112} + x^{110} + x^{108} + x^{102} + x^{100} + x^{92} + x^{88} + x^{82} + x^{80} \\
&\quad + x^{78} + x^{76} + x^{72} + x^{64} + x^{62} + x^{60} + x^{54} + x^{48} + x^{44} + x^{42} + x^{40} \\
&\quad + x^{38} + x^{36} + x^{34} + x^{32} + x^{24} + x^{14} + x^{12}, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{97} + x^{96} + x^{46} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{33} \\
&\quad + x^{32} + x^{30} + x^{28} + x^{26} + x^{25} + x^{21} + x^{20} + x^{10} + x^8 + x^6 + x^5 + x \\
&\quad + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{121} + x^{117} + x^{116} + x^{113} + x^{112} + x^{111} + x^{107} + x^{105} \\
&\quad + x^{104} + x^{103} + x^{102} + x^{97} + x^{95} + x^{94} + x^{91} + x^{90} + x^{89} + x^{85} + x^{82} \\
&\quad + x^{80} + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} + x^{67} + x^{64} \\
&\quad + x^{60} + x^{58} + x^{56} + x^{52} + x^{51} + x^{48} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} \\
&\quad + x^{37} + x^{36}, \\
p_3(x) &= x^{108} + x^{104} + x^{94} + x^{92} + x^{88} + x^{84} + x^{68} + x^{64} + x^{60} + x^{56} + x^{54} \\
&\quad + x^{52} + x^{48} + x^{46} + x^{40} + x^{36}, \\
p_6(x) &= x^{114} + x^{112} + x^{110} + x^{109} + x^{105} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\
&\quad + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} \\
&\quad + x^{73} + x^{70} + x^{69} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} \\
&\quad + x^{56} + x^{54} + x^{51} + x^{50} + x^{44} + x^{39} + x^{37} + x^{35} + x^{34} + x^{31} + x^{30} \\
&\quad + x^{29} + x^{27} + x^{26} + x^{25} + x^{24}, \\
p_9(x) &= x^{120} + x^{112} + x^{110} + x^{108} + x^{102} + x^{100} + x^{92} + x^{88} + x^{82} + x^{80} \\
&\quad + x^{78} + x^{76} + x^{72} + x^{64} + x^{62} + x^{60} + x^{54} + x^{48} + x^{44} + x^{42} + x^{40} \\
&\quad + x^{38} + x^{36} + x^{34} + x^{32} + x^{24} + x^{14} + x^{12}, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{97} + x^{96} + x^{46} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{33} \\
&\quad + x^{32} + x^{30} + x^{28} + x^{26} + x^{25} + x^{21} + x^{20} + x^{10} + x^8 + x^6 + x^5 + x \\
&\quad + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{120} + x^{118} + x^{112} + x^{110} + x^{108} + x^{104} + x^{96} + x^{92} + x^{86} \\
&\quad + x^{84} + x^{82} + x^{76} + x^{74} + x^{70} + x^{64} + x^{60} + x^{56} + x^{54} + x^{50} + x^{46} \\
&\quad + x^{44} + x^{42} + x^{40} + x^{36}, \\
p_3(x) &= x^{122} + x^{118} + x^{116} + x^{110} + x^{106} + x^{104} + x^{98} + x^{94} + x^{88} + x^{86} \\
&\quad + x^{82} + x^{80} + x^{78} + x^{74} + x^{70} + x^{66} + x^{64} + x^{62} + x^{56} + x^{54} + x^{50} \\
&\quad + x^{48} + x^{38} + x^{36} + x^{32} + x^{30} + x^{22} + x^{20}, \\
p_6(x) &= x^{122} + x^{118} + x^{108} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{82} + x^{70} + x^{66} \\
&\quad + x^{64} + x^{60} + x^{56} + x^{54} + x^{50} + x^{44} + x^{42} + x^{38} + x^{34} + x^{30} + x^{28} \\
&\quad + x^{24} + x^{16} + x^{14} + x^{12} + x^8 + x^6 + x^2 + 1, \\
p_9(x) &= x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{104} + x^{102} + x^{98} + x^{96} \\
&\quad + x^{92} + x^{90} + x^{88} + x^{84} + x^{82} + x^{76} + x^{74} + x^{70} + x^{66} + x^{62} + x^{60} \\
&\quad + x^{58} + x^{56} + x^{54} + x^{52} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{26} + x^{24}
\end{aligned}$$

$$\begin{aligned}
& + x^{18} + x^{16} + x^{14} + x^8, \\
p_{12}(x) &= x^{126} + x^{122} + x^{120} + x^{102} + x^{98} + x^{96} + x^{46} + x^{42} + x^{40} + x^{30} + x^{26} \\
& + x^{24} + x^{22} + x^{18} + x^{16} + x^6 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{120} + x^{114} + x^{108} + x^{96} + x^{84} + x^{66} + x^{60} + x^{36}, \\
p_3(x) &= x^{122} + x^{118} + x^{116} + x^{114} + x^{110} + x^{108} + x^{104} + x^{102} + x^{100} + x^{98} \\
& + x^{96} + x^{94} + x^{90} + x^{88} + x^{86} + x^{84} + x^{80} + x^{76} + x^{72} + x^{70} + x^{68} \\
& + x^{66} + x^{64} + x^{58} + x^{52} + x^{44} + x^{36} + x^{34} + x^{28} + x^{24} + x^{22} + x^{20}, \\
p_6(x) &= x^{122} + x^{112} + x^{110} + x^{104} + x^{102} + x^{94} + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} \\
& + x^{74} + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{48} + x^{44} + x^{40} + x^{38} \\
& + x^{28} + x^{24} + x^{20} + x^{18} + x^{14} + x^{12} + x^8 + x^6 + x^2 + 1, \\
p_9(x) &= x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{104} + x^{102} + x^{98} + x^{96} \\
& + x^{92} + x^{90} + x^{88} + x^{84} + x^{82} + x^{76} + x^{74} + x^{70} + x^{66} + x^{62} + x^{60} \\
& + x^{58} + x^{56} + x^{54} + x^{52} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{26} + x^{24} \\
& + x^{18} + x^{16} + x^{14} + x^8, \\
p_{12}(x) &= x^{126} + x^{122} + x^{120} + x^{102} + x^{98} + x^{96} + x^{46} + x^{42} + x^{40} + x^{30} + x^{26} \\
& + x^{24} + x^{22} + x^{18} + x^{16} + x^6 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{121} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} \\
& + x^{107} + x^{106} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} \\
& + x^{93} + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{79} + x^{77} \\
& + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{63} + x^{62} + x^{61} + x^{59} \\
& + x^{58} + x^{56} + x^{53} + x^{52} + x^{50} + x^{49} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} \\
& + x^{37} + x^{36}, \\
p_3(x) &= x^{108} + x^{104} + x^{94} + x^{92} + x^{88} + x^{84} + x^{68} + x^{64} + x^{60} + x^{56} + x^{54} \\
& + x^{52} + x^{48} + x^{46} + x^{40} + x^{36}, \\
p_6(x) &= x^{114} + x^{112} + x^{110} + x^{109} + x^{105} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\
& + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} \\
& + x^{73} + x^{70} + x^{69} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} \\
& + x^{56} + x^{54} + x^{51} + x^{50} + x^{44} + x^{39} + x^{37} + x^{35} + x^{34} + x^{31} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{24}, \\
p_9(x) &= x^{120} + x^{112} + x^{110} + x^{108} + x^{102} + x^{100} + x^{92} + x^{88} + x^{82} + x^{80}
\end{aligned}$$

$$\begin{aligned}
& + x^{78} + x^{76} + x^{72} + x^{64} + x^{62} + x^{60} + x^{54} + x^{48} + x^{44} + x^{42} + x^{40} \\
& + x^{38} + x^{36} + x^{34} + x^{32} + x^{24} + x^{14} + x^{12}, \\
p_{12}(x) = & x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{97} + x^{96} + x^{46} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{33} \\
& + x^{32} + x^{30} + x^{28} + x^{26} + x^{25} + x^{21} + x^{20} + x^{10} + x^8 + x^6 + x^5 + x \\
& + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{121} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} \\
& + x^{107} + x^{106} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} \\
& + x^{93} + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{79} + x^{77} \\
& + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{63} + x^{62} + x^{61} + x^{59} \\
& + x^{58} + x^{56} + x^{53} + x^{52} + x^{50} + x^{49} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} \\
& + x^{37} + x^{36}, \\
p_3(x) = & x^{108} + x^{104} + x^{94} + x^{92} + x^{88} + x^{84} + x^{68} + x^{64} + x^{60} + x^{56} + x^{54} \\
& + x^{52} + x^{48} + x^{46} + x^{40} + x^{36}, \\
p_6(x) = & x^{114} + x^{112} + x^{110} + x^{109} + x^{105} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\
& + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} \\
& + x^{73} + x^{70} + x^{69} + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} \\
& + x^{56} + x^{54} + x^{51} + x^{50} + x^{44} + x^{39} + x^{37} + x^{35} + x^{34} + x^{31} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{24}, \\
p_9(x) = & x^{120} + x^{112} + x^{110} + x^{108} + x^{102} + x^{100} + x^{92} + x^{88} + x^{82} + x^{80} \\
& + x^{78} + x^{76} + x^{72} + x^{64} + x^{62} + x^{60} + x^{54} + x^{48} + x^{44} + x^{42} + x^{40} \\
& + x^{38} + x^{36} + x^{34} + x^{32} + x^{24} + x^{14} + x^{12}, \\
p_{12}(x) = & x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{113} + x^{112} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{97} + x^{96} + x^{46} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{33} \\
& + x^{32} + x^{30} + x^{28} + x^{26} + x^{25} + x^{21} + x^{20} + x^{10} + x^8 + x^6 + x^5 + x \\
& + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{122} + x^{120} + x^{110} + x^{108} + x^{106} + x^{102} + x^{98} + x^{90} + x^{84} \\
& + x^{74} + x^{70} + x^{64} + x^{60} + x^{54} + x^{52} + x^{50} + x^{48} + x^{42} + x^{38} + x^{36}, \\
p_3(x) = & x^{122} + x^{116} + x^{110} + x^{104} + x^{102} + x^{94} + x^{92} + x^{90} + x^{86} + x^{82} + x^{80} \\
& + x^{74} + x^{70} + x^{64} + x^{56} + x^{52} + x^{50} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36}
\end{aligned}$$

$$\begin{aligned}
& + x^{32} + x^{20}, \\
p_6(x) &= x^{122} + x^{112} + x^{110} + x^{106} + x^{104} + x^{102} + x^{100} + x^{94} + x^{92} + x^{90} \\
& + x^{86} + x^{82} + x^{78} + x^{70} + x^{66} + x^{64} + x^{62} + x^{60} + x^{54} + x^{50} + x^{48} \\
& + x^{44} + x^{42} + x^{34} + x^{32} + x^{30} + x^{26} + x^{22} + x^{18} + x^{10} + x^6 + 1, \\
p_9(x) &= x^{122} + x^{116} + x^{112} + x^{110} + x^{104} + x^{102} + x^{100} + x^{94} + x^{92} + x^{88} \\
& + x^{84} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{58} + x^{48} + x^{46} + x^{42} \\
& + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{18} + x^{16} + x^{12} + x^{10} + x^8, \\
p_{12}(x) &= x^{126} + x^{120} + x^{110} + x^{104} + x^{102} + x^{96} + x^{46} + x^{40} + x^{22} + x^{16} + x^{14} \\
& + x^8 + x^6 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{112} + x^{111} + x^{109} \\
& + x^{108} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{97} + x^{92} \\
& + x^{91} + x^{90} + x^{88} + x^{86} + x^{85} + x^{81} + x^{78} + x^{75} + x^{69} + x^{66} + x^{64} \\
& + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{54} + x^{50} + x^{48} + x^{44} + x^{43} + x^{42} \\
& + x^{40} + x^{39} + x^{38} + x^{37} + x^{36}, \\
p_3(x) &= x^{118} + x^{116} + x^{114} + x^{113} + x^{110} + x^{109} + x^{106} + x^{104} + x^{103} + x^{101} \\
& + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{84} + x^{83} + x^{82} \\
& + x^{80} + x^{79} + x^{77} + x^{74} + x^{73} + x^{69} + x^{68} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{60} + x^{57} + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} + x^{42} + x^{41} + x^{40} + x^{39} \\
& + x^{38} + x^{37} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28}, \\
p_6(x) &= x^{122} + x^{120} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{102} + x^{99} + x^{96} + x^{93} + x^{89} + x^{88} + x^{86} \\
& + x^{85} + x^{83} + x^{75} + x^{68} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{55} \\
& + x^{51} + x^{48} + x^{46} + x^{43} + x^{42} + x^{41} + x^{38} + x^{36} + x^{34} + x^{33} + x^{31} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12} + x^{10} \\
& + x^8 + x^6 + x^5 + x + 1, \\
p_9(x) &= x^{118} + x^{116} + x^{113} + x^{112} + x^{38} + x^{36} + x^{33} + x^{32} + x^{22} + x^{20} + x^{17} \\
& + x^{16}, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{106} + x^{104} + x^{102} + x^{101} + x^{97} + x^{96} \\
& + x^{46} + x^{44} + x^{41} + x^{40} + x^{30} + x^{28} + x^{26} + x^{25} + x^{22} + x^{21} + x^{17} \\
& + x^{16} + x^{10} + x^8 + x^6 + x^5 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{132} + x^{126} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} \\
&\quad + x^{111} + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{100} + x^{99} + x^{94} + x^{93} \\
&\quad + x^{92} + x^{91} + x^{87} + x^{86} + x^{85} + x^{83} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} \\
&\quad + x^{75} + x^{74} + x^{70} + x^{68} + x^{67} + x^{63} + x^{60} + x^{59} + x^{58} + x^{56} + x^{53} \\
&\quad + x^{51} + x^{49} + x^{48} + x^{45} + x^{44} + x^{39} + x^{36}, \\
p_3(x) &= x^{114} + x^{112} + x^{110} + x^{109} + x^{105} + x^{102} + x^{99} + x^{96} + x^{93} + x^{88} \\
&\quad + x^{87} + x^{86} + x^{85} + x^{84} + x^{74} + x^{72} + x^{70} + x^{69} + x^{66} + x^{65} + x^{64} \\
&\quad + x^{61} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{51} + x^{47} + x^{46} + x^{44} + x^{40} \\
&\quad + x^{39} + x^{38} + x^{37} + x^{36}, \\
p_6(x) &= x^{120} + x^{116} + x^{110} + x^{104} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{86} + x^{84} \\
&\quad + x^{78} + x^{74} + x^{70} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58} + x^{48} + x^{46} + x^{42} \\
&\quad + x^{40} + x^{34} + x^{30} + x^{28} + x^{26} + x^{24}, \\
p_9(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{114} + x^{112} + x^{109} + x^{108} + x^{46} + x^{44} \\
&\quad + x^{41} + x^{40} + x^{34} + x^{32} + x^{30} + x^{29} + x^{25} + x^{24} + x^{18} + x^{16} + x^{13} \\
&\quad + x^{12}, \\
p_{12}(x) &= x^{132} + x^{120} + x^{112} + x^{108} + x^{100} + x^{96} + x^{52} + x^{40} + x^{36} + x^{32} + x^{28} \\
&\quad + x^{24} + x^{20} + x^{12} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{132} + x^{126} + x^{124} + x^{123} + x^{122} + x^{119} + x^{116} + x^{109} + x^{108} + x^{106} \\
&\quad + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} \\
&\quad + x^{94} + x^{93} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{82} + x^{81} + x^{80} + x^{79} \\
&\quad + x^{78} + x^{77} + x^{76} + x^{71} + x^{69} + x^{66} + x^{65} + x^{63} + x^{61} + x^{60} + x^{59} \\
&\quad + x^{57} + x^{56} + x^{54} + x^{51} + x^{50} + x^{48} + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} \\
&\quad + x^{36}, \\
p_3(x) &= x^{114} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} + x^{104} + x^{101} + x^{99} + x^{97} \\
&\quad + x^{96} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{74} \\
&\quad + x^{72} + x^{70} + x^{69} + x^{65} + x^{62} + x^{59} + x^{58} + x^{52} + x^{50} + x^{48} + x^{47} \\
&\quad + x^{46} + x^{43} + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36}, \\
p_6(x) &= x^{120} + x^{116} + x^{112} + x^{110} + x^{108} + x^{104} + x^{102} + x^{98} + x^{96} + x^{90} \\
&\quad + x^{86} + x^{82} + x^{80} + x^{76} + x^{74} + x^{72} + x^{70} + x^{60} + x^{58} + x^{54} + x^{48} \\
&\quad + x^{46} + x^{38} + x^{32} + x^{26} + x^{24}, \\
p_9(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{114} + x^{113} + x^{109} + x^{108}
\end{aligned}$$

$$\begin{aligned}
& + x^{46} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{30} + x^{29} + x^{25} \\
& + x^{24} + x^{22} + x^{20} + x^{18} + x^{17} + x^{13} + x^{12}, \\
p_{12}(x) = & x^{132} + x^{124} + x^{120} + x^{112} + x^{108} + x^{104} + x^{96} + x^{52} + x^{44} + x^{40} \\
& + x^{36} + x^{32} + x^{12} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} \\
& + x^{108} + x^{103} + x^{101} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{85} \\
& + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} + x^{72} + x^{68} + x^{64} + x^{58} + x^{57} \\
& + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} + x^{43} + x^{42} + x^{41} \\
& + x^{39} + x^{38} + x^{37} + x^{36}, \\
p_3(x) = & x^{118} + x^{116} + x^{114} + x^{113} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} + x^{98} \\
& + x^{97} + x^{95} + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{77} + x^{74} \\
& + x^{73} + x^{70} + x^{69} + x^{66} + x^{64} + x^{63} + x^{61} + x^{60} + x^{58} + x^{56} + x^{50} \\
& + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{39} + x^{35} + x^{34} \\
& + x^{33} + x^{31} + x^{30} + x^{29} + x^{28}, \\
p_6(x) = & x^{122} + x^{120} + x^{118} + x^{117} + x^{111} + x^{106} + x^{105} + x^{103} + x^{102} + x^{100} \\
& + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{90} + x^{88} + x^{86} + x^{83} + x^{79} + x^{78} \\
& + x^{77} + x^{73} + x^{69} + x^{64} + x^{63} + x^{62} + x^{58} + x^{57} + x^{55} + x^{54} + x^{45} \\
& + x^{44} + x^{43} + x^{39} + x^{38} + x^{35} + x^{33} + x^{30} + x^{22} + x^{20} + x^{16} + x^{15} \\
& + x^{14} + x^{13} + x^{12} + x^{10} + x^8 + x^6 + x^5 + x + 1, \\
p_9(x) = & x^{118} + x^{116} + x^{113} + x^{112} + x^{38} + x^{36} + x^{33} + x^{32} + x^{22} + x^{20} + x^{17} \\
& + x^{16}, \\
p_{12}(x) = & x^{126} + x^{124} + x^{121} + x^{120} + x^{106} + x^{104} + x^{102} + x^{101} + x^{97} + x^{96} \\
& + x^{46} + x^{44} + x^{41} + x^{40} + x^{30} + x^{28} + x^{26} + x^{25} + x^{22} + x^{21} + x^{17} \\
& + x^{16} + x^{10} + x^8 + x^6 + x^5 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{112} + x^{111} + x^{109} \\
& + x^{108} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{97} + x^{92} \\
& + x^{91} + x^{90} + x^{88} + x^{86} + x^{85} + x^{81} + x^{78} + x^{75} + x^{69} + x^{66} + x^{64} \\
& + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{54} + x^{50} + x^{48} + x^{44} + x^{43} + x^{42} \\
& + x^{40} + x^{39} + x^{38} + x^{37} + x^{36}, \\
p_3(x) = & x^{118} + x^{116} + x^{114} + x^{113} + x^{110} + x^{109} + x^{106} + x^{104} + x^{103} + x^{101}
\end{aligned}$$

$$\begin{aligned}
& + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{84} + x^{83} + x^{82} \\
& + x^{80} + x^{79} + x^{77} + x^{74} + x^{73} + x^{69} + x^{68} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{60} + x^{57} + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} + x^{42} + x^{41} + x^{40} + x^{39} \\
& + x^{38} + x^{37} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28}, \\
p_6(x) &= x^{122} + x^{120} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{102} + x^{99} + x^{96} + x^{93} + x^{89} + x^{88} + x^{86} \\
& + x^{85} + x^{83} + x^{75} + x^{68} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{55} \\
& + x^{51} + x^{48} + x^{46} + x^{43} + x^{42} + x^{41} + x^{38} + x^{36} + x^{34} + x^{33} + x^{31} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{17} + x^{15} + x^{14} + x^{13} + x^{12} + x^{10} \\
& + x^8 + x^6 + x^5 + x + 1, \\
p_9(x) &= x^{118} + x^{116} + x^{113} + x^{112} + x^{38} + x^{36} + x^{33} + x^{32} + x^{22} + x^{20} + x^{17} \\
& + x^{16}, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{106} + x^{104} + x^{102} + x^{101} + x^{97} + x^{96} \\
& + x^{46} + x^{44} + x^{41} + x^{40} + x^{30} + x^{28} + x^{26} + x^{25} + x^{22} + x^{21} + x^{17} \\
& + x^{16} + x^{10} + x^8 + x^6 + x^5 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{132} + x^{126} + x^{124} + x^{123} + x^{122} + x^{119} + x^{116} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{82} + x^{81} + x^{80} + x^{79} \\
& + x^{78} + x^{77} + x^{76} + x^{71} + x^{69} + x^{66} + x^{65} + x^{63} + x^{61} + x^{60} + x^{59} \\
& + x^{57} + x^{56} + x^{54} + x^{51} + x^{50} + x^{48} + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} \\
& + x^{36}, \\
p_3(x) &= x^{114} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} + x^{104} + x^{101} + x^{99} + x^{97} \\
& + x^{96} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{74} \\
& + x^{72} + x^{70} + x^{69} + x^{65} + x^{62} + x^{59} + x^{58} + x^{52} + x^{50} + x^{48} + x^{47} \\
& + x^{46} + x^{43} + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36}, \\
p_6(x) &= x^{120} + x^{116} + x^{112} + x^{110} + x^{108} + x^{104} + x^{102} + x^{98} + x^{96} + x^{90} \\
& + x^{86} + x^{82} + x^{80} + x^{76} + x^{74} + x^{72} + x^{70} + x^{60} + x^{58} + x^{54} + x^{48} \\
& + x^{46} + x^{38} + x^{32} + x^{26} + x^{24}, \\
p_9(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{118} + x^{116} + x^{114} + x^{113} + x^{109} + x^{108} \\
& + x^{46} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{30} + x^{29} + x^{25} \\
& + x^{24} + x^{22} + x^{20} + x^{18} + x^{17} + x^{13} + x^{12}, \\
p_{12}(x) &= x^{132} + x^{124} + x^{120} + x^{112} + x^{108} + x^{104} + x^{96} + x^{52} + x^{44} + x^{40}
\end{aligned}$$

$$+ x^{36} + x^{32} + x^{12} + x^8 + 1,$$

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

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

$$\begin{aligned} p_0(x) &= x^{132} + x^{126} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} \\ &\quad + x^{111} + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{100} + x^{99} + x^{94} + x^{93} \\ &\quad + x^{92} + x^{91} + x^{87} + x^{86} + x^{85} + x^{83} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} \\ &\quad + x^{75} + x^{74} + x^{70} + x^{68} + x^{67} + x^{63} + x^{60} + x^{59} + x^{58} + x^{56} + x^{53} \\ &\quad + x^{51} + x^{49} + x^{48} + x^{45} + x^{44} + x^{39} + x^{36}, \\ p_3(x) &= x^{114} + x^{112} + x^{110} + x^{109} + x^{105} + x^{102} + x^{99} + x^{96} + x^{93} + x^{88} \\ &\quad + x^{87} + x^{86} + x^{85} + x^{84} + x^{74} + x^{72} + x^{70} + x^{69} + x^{66} + x^{65} + x^{64} \\ &\quad + x^{61} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{51} + x^{47} + x^{46} + x^{44} + x^{40} \\ &\quad + x^{39} + x^{38} + x^{37} + x^{36}, \\ p_6(x) &= x^{120} + x^{116} + x^{110} + x^{104} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} + x^{86} + x^{84} \\ &\quad + x^{78} + x^{74} + x^{70} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58} + x^{48} + x^{46} + x^{42} \\ &\quad + x^{40} + x^{34} + x^{30} + x^{28} + x^{26} + x^{24}, \\ p_9(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{114} + x^{112} + x^{109} + x^{108} + x^{46} + x^{44} \\ &\quad + x^{41} + x^{40} + x^{34} + x^{32} + x^{30} + x^{29} + x^{25} + x^{24} + x^{18} + x^{16} + x^{13} \\ &\quad + x^{12}, \\ p_{12}(x) &= x^{132} + x^{120} + x^{112} + x^{108} + x^{100} + x^{96} + x^{52} + x^{40} + x^{36} + x^{32} + x^{28} \\ &\quad + x^{24} + x^{20} + x^{12} + x^4 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{117} + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} \\ &\quad + x^{108} + x^{103} + x^{101} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{85} \\ &\quad + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} + x^{72} + x^{68} + x^{64} + x^{58} + x^{57} \\ &\quad + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} + x^{43} + x^{42} + x^{41} \\ &\quad + x^{39} + x^{38} + x^{37} + x^{36}, \\ p_3(x) &= x^{118} + x^{116} + x^{114} + x^{113} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} + x^{98} \\ &\quad + x^{97} + x^{95} + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{79} + x^{77} + x^{74} \\ &\quad + x^{73} + x^{70} + x^{69} + x^{66} + x^{64} + x^{63} + x^{61} + x^{60} + x^{58} + x^{56} + x^{50} \\ &\quad + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{39} + x^{35} + x^{34} \\ &\quad + x^{33} + x^{31} + x^{30} + x^{29} + x^{28}, \\ p_6(x) &= x^{122} + x^{120} + x^{118} + x^{117} + x^{111} + x^{106} + x^{105} + x^{103} + x^{102} + x^{100} \\ &\quad + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{90} + x^{88} + x^{86} + x^{83} + x^{79} + x^{78} \end{aligned}$$

$$\begin{aligned}
& + x^{77} + x^{73} + x^{69} + x^{64} + x^{63} + x^{62} + x^{58} + x^{57} + x^{55} + x^{54} + x^{45} \\
& + x^{44} + x^{43} + x^{39} + x^{38} + x^{35} + x^{33} + x^{30} + x^{22} + x^{20} + x^{16} + x^{15} \\
& + x^{14} + x^{13} + x^{12} + x^{10} + x^8 + x^6 + x^5 + x + 1, \\
p_9(x) &= x^{118} + x^{116} + x^{113} + x^{112} + x^{38} + x^{36} + x^{33} + x^{32} + x^{22} + x^{20} + x^{17} \\
& + x^{16}, \\
p_{12}(x) &= x^{126} + x^{124} + x^{121} + x^{120} + x^{106} + x^{104} + x^{102} + x^{101} + x^{97} + x^{96} \\
& + x^{46} + x^{44} + x^{41} + x^{40} + x^{30} + x^{28} + x^{26} + x^{25} + x^{22} + x^{21} + x^{17} \\
& + x^{16} + x^{10} + x^8 + x^6 + x^5 + x + 1,
\end{aligned}$$

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

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]	2023	[3534, 3535]	4046	[2601, 5813]	6069	[1134, 3831]
1	[3, 4]	2024	[3536, 1574]	4047	[5741, 5893]	6070	[7157, 1074]
2	[5, 6]	2025	[3106, 3537]	4048	[6051, 529]	6071	[7010, 3656]
3	[7, 8]	2026	[3538, 467]	4049	[6052, 6053]	6072	[7569, 7570]
4	[9, 10]	2027	[3539, 3540]	4050	[5595, 6054]	6073	[7571, 7572]
5	[11, 12]	2028	[3541, 3542]	4051	[5353, 1828]	6074	[4240, 7498]
6	[13, 14]	2029	[3110, 3543]	4052	[6055, 6031]	6075	[3540, 3610]
7	[15, 16]	2030	[289, 3544]	4053	[5155, 6056]	6076	[3805, 7573]
8	[17, 18]	2031	[1367, 3545]	4054	[6057, 6058]	6077	[7263, 6914]
9	[19, 20]	2032	[3546, 3547]	4055	[677, 5380]	6078	[7427, 7574]
10	[21, 22]	2033	[3548, 3549]	4056	[6059, 2885]	6079	[7575, 7576]
11	[23, 24]	2034	[3550, 351]	4057	[2449, 6060]	6080	[7572, 6837]
12	[25, 26]	2035	[449, 1655]	4058	[5873, 6061]	6081	[7577, 7578]
13	[27, 28]	2036	[3551, 3552]	4059	[5734, 6062]	6082	[7579, 4216]
14	[29, 30]	2037	[3553, 3554]	4060	[6063, 2829]	6083	[3799, 7580]
15	[31, 32]	2038	[3555, 3556]	4061	[5983, 6064]	6084	[7581, 4759]
16	[33, 34]	2039	[3557, 3558]	4062	[5528, 2823]	6085	[4456, 7582]
17	[35, 36]	2040	[3559, 3560]	4063	[6065, 6066]	6086	[7029, 7213]
18	[37, 38]	2041	[3108, 3561]	4064	[6067, 2597]	6087	[4511, 7583]
19	[39, 40]	2042	[295, 3562]	4065	[4884, 5572]	6088	[956, 6865]
20	[41, 42]	2043	[3563, 424]	4066	[6068, 792]	6089	[7069, 7432]
21	[43, 44]	2044	[3564, 3363]	4067	[6069, 5661]	6090	[4571, 7584]
22	[45, 46]	2045	[3565, 3566]	4068	[2001, 5888]	6091	[3143, 6957]
23	[47, 48]	2046	[3567, 3568]	4069	[5250, 5820]	6092	[7446, 3487]
24	[49, 50]	2047	[3569, 3570]	4070	[6070, 6071]	6093	[4018, 6791]
25	[51, 52]	2048	[3188, 3571]	4071	[6072, 5189]	6094	[4084, 7159]
26	[53, 54]	2049	[404, 3572]	4072	[6073, 5828]	6095	[7585, 7586]
27	[55, 56]	2050	[3573, 933]	4073	[6074, 5423]	6096	[7237, 7338]

28	[57, 58]	2051	[3574, 316]	4074	[6075, 1869]	6097	[7071, 6760]
29	[59, 60]	2052	[3575, 3576]	4075	[6076, 6077]	6098	[4028, 7587]
30	[61, 62]	2053	[3577, 1195]	4076	[6078, 5708]	6099	[7343, 4525]
31	[63, 64]	2054	[3578, 3579]	4077	[5066, 6079]	6100	[6842, 7411]
32	[65, 66]	2055	[3580, 1119]	4078	[6080, 5017]	6101	[4007, 3166]
33	[67, 68]	2056	[3581, 3582]	4079	[6081, 6082]	6102	[7271, 7499]
34	[69, 70]	2057	[3583, 3584]	4080	[6083, 6084]	6103	[7149, 4824]
35	[71, 72]	2058	[3585, 3586]	4081	[6085, 6086]	6104	[7588, 6788]
36	[73, 74]	2059	[3587, 3588]	4082	[5722, 5841]	6105	[3977, 7589]
37	[75, 76]	2060	[3589, 3590]	4083	[6087, 6088]	6106	[7590, 7591]
38	[77, 78]	2061	[3561, 3591]	4084	[5271, 6089]	6107	[4260, 4560]
39	[79, 80]	2062	[3592, 3593]	4085	[6090, 5195]	6108	[7578, 6972]
40	[81, 82]	2063	[3594, 3595]	4086	[1789, 6091]	6109	[7592, 7593]
41	[83, 84]	2064	[1148, 3596]	4087	[5419, 5605]	6110	[7594, 3299]
42	[85, 86]	2065	[3597, 280]	4088	[6092, 3020]	6111	[7595, 4521]
43	[87, 88]	2066	[3598, 3599]	4089	[3028, 35]	6112	[3224, 7370]
44	[89, 90]	2067	[3600, 3601]	4090	[1821, 6093]	6113	[3858, 7150]
45	[91, 92]	2068	[3602, 3603]	4091	[6094, 6095]	6114	[3997, 7596]
46	[93, 94]	2069	[3604, 3605]	4092	[6096, 6097]	6115	[1243, 3967]
47	[95, 96]	2070	[3606, 3607]	4093	[5383, 2402]	6116	[3147, 990]
48	[97, 98]	2071	[3608, 3609]	4094	[6098, 6099]	6117	[4637, 3822]
49	[99, 100]	2072	[3610, 3611]	4095	[6100, 6101]	6118	[7488, 3868]
50	[101, 102]	2073	[3612, 3613]	4096	[6102, 1918]	6119	[3911, 7597]
51	[103, 104]	2074	[3614, 3615]	4097	[2807, 2042]	6120	[6992, 6899]
52	[105, 106]	2075	[3616, 3617]	4098	[5300, 2709]	6121	[4750, 4516]
53	[98, 107]	2076	[3618, 3619]	4099	[5750, 6103]	6122	[4406, 4518]
54	[108, 109]	2077	[1699, 1115]	4100	[749, 5117]	6123	[4258, 3275]
55	[110, 111]	2078	[3620, 3621]	4101	[6104, 6105]	6124	[3463, 4475]
56	[112, 113]	2079	[123, 3622]	4102	[8, 5416]	6125	[1625, 7022]
57	[114, 115]	2080	[3623, 3624]	4103	[6106, 6107]	6126	[7501, 6701]
58	[116, 117]	2081	[3625, 3626]	4104	[6108, 6065]	6127	[4761, 7598]
59	[118, 119]	2082	[3627, 3628]	4105	[5755, 2467]	6128	[7336, 7413]
60	[120, 121]	2083	[3629, 3630]	4106	[5137, 6109]	6129	[64, 7599]
61	[122, 123]	2084	[3631, 3632]	4107	[2045, 6110]	6130	[1544, 7189]
62	[124, 125]	2085	[3633, 3634]	4108	[6111, 2746]	6131	[3478, 7600]
63	[126, 127]	2086	[3635, 3636]	4109	[2985, 2637]	6132	[7109, 7487]
64	[128, 129]	2087	[3637, 3638]	4110	[6112, 5699]	6133	[4656, 4738]
65	[130, 131]	2088	[263, 1570]	4111	[6113, 6114]	6134	[7601, 6696]
66	[132, 133]	2089	[3639, 3640]	4112	[6115, 2318]	6135	[6705, 4398]
67	[134, 135]	2090	[3641, 1263]	4113	[2579, 5231]	6136	[7602, 7603]
68	[136, 137]	2091	[3642, 407]	4114	[5011, 6116]	6137	[3775, 7604]
69	[138, 139]	2092	[3643, 3644]	4115	[6117, 6118]	6138	[3134, 4150]
70	[140, 141]	2093	[3645, 394]	4116	[6119, 6120]	6139	[7605, 4643]
71	[142, 143]	2094	[3646, 1302]	4117	[6121, 6122]	6140	[1306, 7414]

72	[144, 145]	2095	[3647, 3094]	4118	[2333, 6123]	6141	[1224, 7117]
73	[146, 147]	2096	[3648, 3649]	4119	[6124, 6125]	6142	[6783, 7602]
74	[148, 149]	2097	[3650, 992]	4120	[6126, 5575]	6143	[7390, 7433]
75	[150, 151]	2098	[3651, 3652]	4121	[5526, 5479]	6144	[6723, 7424]
76	[152, 153]	2099	[3653, 1443]	4122	[6127, 6128]	6145	[7606, 4861]
77	[154, 155]	2100	[480, 3654]	4123	[32, 6129]	6146	[7607, 4262]
78	[156, 157]	2101	[482, 3655]	4124	[34, 5626]	6147	[4565, 7321]
79	[158, 159]	2102	[1720, 3386]	4125	[6110, 6098]	6148	[7608, 7524]
80	[160, 161]	2103	[3064, 1225]	4126	[6130, 5687]	6149	[7298, 4068]
81	[162, 163]	2104	[3656, 3657]	4127	[182, 6131]	6150	[7417, 6998]
82	[164, 165]	2105	[485, 3658]	4128	[6132, 6133]	6151	[7609, 7610]
83	[166, 167]	2106	[1613, 3659]	4129	[2837, 2635]	6152	[7611, 357]
84	[168, 169]	2107	[3660, 3283]	4130	[5170, 5119]	6153	[7612, 1602]
85	[170, 171]	2108	[3361, 3661]	4131	[5128, 4932]	6154	[6869, 7613]
86	[172, 173]	2109	[3662, 1197]	4132	[5961, 6134]	6155	[7614, 7012]
87	[174, 175]	2110	[3663, 3664]	4133	[6135, 51]	6156	[4659, 7615]
88	[176, 177]	2111	[3665, 1267]	4134	[2026, 2014]	6157	[7330, 7365]
89	[153, 178]	2112	[3666, 3667]	4135	[743, 5795]	6158	[3378, 7329]
90	[179, 180]	2113	[3668, 442]	4136	[6136, 5314]	6159	[4321, 7616]
91	[181, 182]	2114	[3669, 3670]	4137	[2231, 6137]	6160	[439, 1551]
92	[183, 184]	2115	[1127, 3671]	4138	[2645, 2543]	6161	[6937, 416]
93	[185, 186]	2116	[3672, 936]	4139	[6138, 6139]	6162	[4102, 7254]
94	[187, 188]	2117	[3673, 3674]	4140	[6140, 6141]	6163	[3278, 6966]
95	[189, 190]	2118	[3605, 3675]	4141	[4965, 6142]	6164	[3196, 3230]
96	[191, 192]	2119	[1040, 1152]	4142	[5948, 6143]	6165	[7260, 6706]
97	[193, 194]	2120	[3676, 3677]	4143	[6144, 6145]	6166	[7617, 7381]
98	[195, 196]	2121	[3678, 3679]	4144	[6146, 5039]	6167	[7618, 6810]
99	[197, 198]	2122	[3680, 3681]	4145	[5974, 5875]	6168	[1390, 6736]
100	[199, 200]	2123	[3682, 3683]	4146	[5559, 6147]	6169	[1177, 7521]
101	[201, 202]	2124	[3684, 3685]	4147	[1979, 5074]	6170	[7551, 6879]
102	[203, 204]	2125	[3686, 3687]	4148	[5211, 6148]	6171	[7178, 4854]
103	[205, 206]	2126	[3688, 3689]	4149	[6149, 6150]	6172	[7619, 4349]
104	[207, 208]	2127	[3690, 3612]	4150	[1773, 532]	6173	[4784, 3062]
105	[209, 210]	2128	[3691, 3432]	4151	[2460, 6008]	6174	[7620, 7139]
106	[211, 212]	2129	[3393, 3692]	4152	[2464, 5966]	6175	[7613, 7621]
107	[213, 214]	2130	[425, 3693]	4153	[2983, 6151]	6176	[7535, 6976]
108	[215, 216]	2131	[3694, 1454]	4154	[6152, 6153]	6177	[7461, 4436]
109	[217, 218]	2132	[3695, 3696]	4155	[5991, 5343]	6178	[26, 4438]
110	[219, 220]	2133	[3697, 3698]	4156	[6154, 6155]	6179	[4395, 471]
111	[221, 222]	2134	[3699, 3700]	4157	[6156, 5695]	6180	[4064, 4288]
112	[223, 224]	2135	[3701, 124]	4158	[242, 6157]	6181	[972, 4773]
113	[225, 226]	2136	[3702, 3703]	4159	[6158, 6159]	6182	[4652, 7391]
114	[227, 228]	2137	[3704, 1265]	4160	[2113, 2330]	6183	[7155, 4756]
115	[229, 230]	2138	[3547, 3705]	4161	[6160, 6161]	6184	[7622, 4272]

116	[231, 232]	2139	[313, 3706]	4162	[5340, 6162]	6185	[4426, 3660]
117	[233, 234]	2140	[3707, 3708]	4163	[2288, 5425]	6186	[4008, 4498]
118	[235, 236]	2141	[3709, 3710]	4164	[6163, 6164]	6187	[7623, 7266]
119	[237, 238]	2142	[3711, 3712]	4165	[2386, 5365]	6188	[3855, 4568]
120	[239, 240]	2143	[3713, 3577]	4166	[5999, 2228]	6189	[3853, 310]
121	[241, 242]	2144	[3714, 3715]	4167	[6165, 2591]	6190	[3842, 6814]
122	[243, 244]	2145	[3716, 3717]	4168	[5149, 6166]	6191	[7624, 1248]
123	[245, 246]	2146	[3718, 3131]	4169	[5434, 5060]	6192	[4050, 4769]
124	[247, 248]	2147	[3719, 484]	4170	[6167, 2673]	6193	[1472, 3673]
125	[249, 250]	2148	[3720, 3721]	4171	[6168, 4914]	6194	[4151, 7625]
126	[251, 252]	2149	[3722, 3723]	4172	[5600, 2668]	6195	[7058, 3598]
127	[253, 254]	2150	[3724, 3725]	4173	[5859, 2328]	6196	[4351, 7626]
128	[255, 253]	2151	[3429, 3726]	4174	[6169, 5962]	6197	[385, 7627]
129	[256, 257]	2152	[3727, 3728]	4175	[6170, 5132]	6198	[7628, 6797]
130	[76, 258]	2153	[3169, 3729]	4176	[6171, 5589]	6199	[7629, 7548]
131	[78, 259]	2154	[1071, 3730]	4177	[4920, 6172]	6200	[4791, 3258]
132	[260, 261]	2155	[3731, 3732]	4178	[228, 5210]	6201	[7030, 1137]
133	[262, 263]	2156	[3733, 3734]	4179	[6173, 5954]	6202	[6941, 7486]
134	[264, 265]	2157	[3735, 3101]	4180	[6174, 6175]	6203	[7517, 7612]
135	[266, 267]	2158	[3736, 3737]	4181	[6176, 5527]	6204	[7630, 6952]
136	[268, 269]	2159	[3738, 3739]	4182	[6177, 6178]	6205	[7191, 7555]
137	[270, 271]	2160	[3740, 3741]	4183	[5058, 5720]	6206	[6805, 7631]
138	[272, 273]	2161	[3742, 3743]	4184	[5953, 6179]	6207	[6866, 7632]
139	[274, 275]	2162	[3744, 3745]	4185	[2310, 2663]	6208	[1452, 1173]
140	[276, 277]	2163	[3746, 3747]	4186	[2535, 6180]	6209	[7102, 7633]
141	[278, 279]	2164	[1028, 3748]	4187	[6181, 6182]	6210	[3192, 6785]
142	[280, 281]	2165	[3749, 3750]	4188	[6183, 4990]	6211	[7316, 7049]
143	[282, 283]	2166	[3751, 3752]	4189	[5112, 2274]	6212	[1140, 4166]
144	[284, 285]	2167	[3753, 1425]	4190	[931, 817]	6213	[7014, 7634]
145	[286, 287]	2168	[3518, 3754]	4191	[2093, 5381]	6214	[7635, 7636]
146	[288, 289]	2169	[3755, 3756]	4192	[1765, 6184]	6215	[4682, 1677]
147	[290, 291]	2170	[3757, 1465]	4193	[1954, 3007]	6216	[7275, 7144]
148	[292, 293]	2171	[3758, 3759]	4194	[2378, 3009]	6217	[7107, 7274]
149	[294, 295]	2172	[3760, 79]	4195	[5997, 2826]	6218	[7637, 6909]
150	[296, 297]	2173	[3761, 3762]	4196	[6185, 6186]	6219	[7455, 4416]
151	[298, 299]	2174	[3763, 3764]	4197	[6187, 2982]	6220	[7326, 965]
152	[300, 301]	2175	[3765, 3766]	4198	[2243, 6188]	6221	[1170, 4646]
153	[302, 303]	2176	[3767, 3768]	4199	[553, 6189]	6222	[7484, 7108]
154	[304, 305]	2177	[3769, 3770]	4200	[5683, 6047]	6223	[3359, 1489]
155	[306, 307]	2178	[3141, 3771]	4201	[2533, 5839]	6224	[1253, 114]
156	[308, 309]	2179	[3772, 3773]	4202	[3019, 5553]	6225	[7342, 7401]
157	[310, 311]	2180	[3774, 3775]	4203	[5667, 6190]	6226	[3865, 7638]
158	[312, 313]	2181	[3776, 3777]	4204	[6191, 5539]	6227	[7465, 7639]
159	[314, 315]	2182	[3778, 3779]	4205	[6192, 5466]	6228	[7396, 7640]

160	[316, 317]	2183	[367, 3287]	4206	[6193, 2116]	6229	[7591, 4446]
161	[318, 319]	2184	[3780, 3781]	4207	[543, 2118]	6230	[7236, 7641]
162	[320, 321]	2185	[3190, 3782]	4208	[648, 11]	6231	[7642, 4755]
163	[322, 323]	2186	[950, 3783]	4209	[6194, 6195]	6232	[4302, 7428]
164	[265, 324]	2187	[3784, 3197]	4210	[6196, 2763]	6233	[4838, 3125]
165	[267, 325]	2188	[3785, 3786]	4211	[5269, 6197]	6234	[3489, 6829]
166	[326, 327]	2189	[3787, 3788]	4212	[5727, 5173]	6235	[7099, 4626]
167	[328, 329]	2190	[3789, 3790]	4213	[6198, 2408]	6236	[4218, 7355]
168	[330, 331]	2191	[1490, 3333]	4214	[6199, 3016]	6237	[1270, 7287]
169	[332, 333]	2192	[3791, 3792]	4215	[6114, 6200]	6238	[4212, 7445]
170	[334, 335]	2193	[1296, 3793]	4216	[6201, 5445]	6239	[7349, 3976]
171	[336, 337]	2194	[3649, 3794]	4217	[6202, 5652]	6240	[7479, 6709]
172	[338, 339]	2195	[3795, 3796]	4218	[6178, 2678]	6241	[6796, 7579]
173	[340, 341]	2196	[3797, 3199]	4219	[6179, 6203]	6242	[7478, 1706]
174	[342, 343]	2197	[3798, 3799]	4220	[6204, 6205]	6243	[3867, 7643]
175	[344, 345]	2198	[333, 3800]	4221	[5935, 804]	6244	[4107, 7094]
176	[346, 347]	2199	[436, 3801]	4222	[6206, 6207]	6245	[4415, 4243]
177	[348, 349]	2200	[3802, 967]	4223	[6208, 6209]	6246	[7597, 458]
178	[301, 350]	2201	[3182, 3803]	4224	[4924, 6210]	6247	[3825, 6817]
179	[351, 352]	2202	[3210, 1582]	4225	[6211, 6212]	6248	[3338, 4845]
180	[353, 354]	2203	[3804, 3805]	4226	[6213, 6214]	6249	[3677, 7372]
181	[355, 356]	2204	[3806, 1334]	4227	[3017, 6215]	6250	[7644, 7279]
182	[357, 322]	2205	[3807, 27]	4228	[5765, 890]	6251	[1603, 7645]
183	[358, 359]	2206	[3808, 29]	4229	[6216, 5322]	6252	[1200, 6970]
184	[360, 361]	2207	[86, 3809]	4230	[6217, 2500]	6253	[4425, 7646]
185	[362, 363]	2208	[3810, 3811]	4231	[6218, 6219]	6254	[7647, 4839]
186	[364, 365]	2209	[3812, 3813]	4232	[6220, 6057]	6255	[6943, 1521]
187	[366, 367]	2210	[3814, 3815]	4233	[6037, 5909]	6256	[4557, 7648]
188	[368, 369]	2211	[1218, 3816]	4234	[4974, 6221]	6257	[7649, 4175]
189	[370, 371]	2212	[3817, 951]	4235	[5982, 845]	6258	[7397, 7393]
190	[372, 373]	2213	[3818, 3819]	4236	[5359, 6222]	6259	[3932, 7650]
191	[374, 375]	2214	[3820, 3821]	4237	[3010, 6223]	6260	[4360, 3369]
192	[376, 377]	2215	[3822, 3823]	4238	[6224, 5819]	6261	[7600, 4575]
193	[378, 379]	2216	[3824, 1088]	4239	[6225, 6226]	6262	[3847, 7651]
194	[380, 381]	2217	[1569, 3825]	4240	[5894, 6227]	6263	[450, 7617]
195	[382, 383]	2218	[3826, 3532]	4241	[6228, 6229]	6264	[1026, 7163]
196	[384, 385]	2219	[3827, 3828]	4242	[3013, 2565]	6265	[7560, 7057]
197	[386, 387]	2220	[3829, 3830]	4243	[631, 5902]	6266	[4587, 4238]
198	[388, 389]	2221	[3831, 3757]	4244	[591, 5793]	6267	[7652, 7653]
199	[390, 391]	2222	[3832, 3833]	4245	[6071, 913]	6268	[7187, 7654]
200	[392, 393]	2223	[3349, 3834]	4246	[6230, 6231]	6269	[4031, 6716]
201	[394, 395]	2224	[3474, 1505]	4247	[6232, 6196]	6270	[3375, 454]
202	[396, 397]	2225	[3835, 1633]	4248	[5398, 5193]	6271	[7534, 6934]
203	[398, 399]	2226	[3836, 3434]	4249	[6233, 6234]	6272	[7655, 6906]

204	[400, 401]	2227	[1396, 3837]	4250	[5307, 6235]	6273	[7632, 7656]
205	[402, 380]	2228	[3838, 3839]	4251	[5218, 594]	6274	[7196, 7462]
206	[403, 404]	2229	[3840, 17]	4252	[6236, 6237]	6275	[1400, 6980]
207	[405, 406]	2230	[3841, 3842]	4253	[6238, 5198]	6276	[1332, 6982]
208	[407, 408]	2231	[3843, 3844]	4254	[5957, 1845]	6277	[3917, 7068]
209	[409, 410]	2232	[3845, 3846]	4255	[2994, 6239]	6278	[7536, 7657]
210	[411, 412]	2233	[3104, 473]	4256	[839, 6169]	6279	[7323, 4137]
211	[413, 91]	2234	[279, 3847]	4257	[6240, 5257]	6280	[7658, 7659]
212	[414, 415]	2235	[3848, 3645]	4258	[5263, 5185]	6281	[3218, 3392]
213	[416, 417]	2236	[3067, 3849]	4259	[6157, 5691]	6282	[7550, 7190]
214	[418, 419]	2237	[3404, 426]	4260	[5908, 6241]	6283	[7335, 1109]
215	[420, 421]	2238	[3309, 3850]	4261	[6242, 2103]	6284	[7660, 4465]
216	[422, 423]	2239	[3310, 3851]	4262	[1975, 6243]	6285	[7661, 7662]
217	[424, 425]	2240	[3852, 3853]	4263	[583, 1762]	6286	[7663, 7328]
218	[426, 427]	2241	[427, 3854]	4264	[5749, 6244]	6287	[1488, 7469]
219	[428, 353]	2242	[3231, 3855]	4265	[2220, 5102]	6288	[7356, 7305]
220	[429, 430]	2243	[3491, 3856]	4266	[6245, 5351]	6289	[3849, 7652]
221	[431, 432]	2244	[3857, 3858]	4267	[6246, 235]	6290	[3227, 314]
222	[433, 434]	2245	[3859, 438]	4268	[6247, 6248]	6291	[4819, 99]
223	[435, 436]	2246	[1341, 3860]	4269	[6249, 2315]	6292	[7042, 6765]
224	[437, 370]	2247	[3705, 3861]	4270	[5430, 1856]	6293	[993, 3252]
225	[438, 439]	2248	[3862, 3863]	4271	[5086, 6250]	6294	[7664, 3618]
226	[440, 441]	2249	[3864, 3865]	4272	[522, 6251]	6295	[7580, 7080]
227	[442, 443]	2250	[3866, 3867]	4273	[5309, 5690]	6296	[4577, 6786]
228	[444, 445]	2251	[3868, 3869]	4274	[5891, 2577]	6297	[6862, 7665]
229	[446, 447]	2252	[3870, 3871]	4275	[2564, 6252]	6298	[7666, 7667]
230	[448, 449]	2253	[3872, 3873]	4276	[6253, 6158]	6299	[7320, 4094]
231	[350, 450]	2254	[3874, 3875]	4277	[5194, 2246]	6300	[1079, 959]
232	[451, 452]	2255	[3876, 286]	4278	[1998, 5834]	6301	[4350, 7668]
233	[369, 453]	2256	[3819, 3877]	4279	[6254, 3022]	6302	[7669, 7670]
234	[454, 455]	2257	[3878, 1611]	4280	[6147, 5051]	6303	[7648, 7671]
235	[456, 457]	2258	[3879, 3880]	4281	[516, 6255]	6304	[1634, 7614]
236	[458, 459]	2259	[1482, 3881]	4282	[2578, 5588]	6305	[3830, 1236]
237	[460, 461]	2260	[3882, 3883]	4283	[5975, 5981]	6306	[7085, 1543]
238	[462, 23]	2261	[3884, 3885]	4284	[6256, 6257]	6307	[7172, 3983]
239	[463, 464]	2262	[3886, 3437]	4285	[6258, 851]	6308	[4338, 4770]
240	[465, 466]	2263	[3521, 3887]	4286	[6243, 2605]	6309	[7174, 6987]
241	[467, 468]	2264	[3888, 3889]	4287	[2857, 2540]	6310	[3397, 7672]
242	[469, 470]	2265	[3890, 3891]	4288	[6066, 2963]	6311	[4766, 4422]
243	[471, 472]	2266	[3892, 3893]	4289	[6259, 1923]	6312	[4634, 1259]
244	[473, 474]	2267	[3894, 3895]	4290	[6260, 6261]	6313	[6895, 3492]
245	[475, 476]	2268	[3352, 1121]	4291	[5912, 5133]	6314	[7668, 7490]
246	[477, 478]	2269	[3896, 3897]	4292	[6262, 6263]	6315	[7500, 4665]
247	[479, 480]	2270	[3898, 65]	4293	[5095, 193]	6316	[18, 7588]

248	[481, 482]	2271	[3899, 3900]	4294	[2692, 5625]	6317	[966, 3320]
249	[30, 483]	2272	[3901, 3902]	4295	[6264, 6265]	6318	[7640, 6715]
250	[484, 485]	2273	[3689, 1608]	4296	[6266, 2521]	6319	[6932, 3680]
251	[486, 487]	2274	[3903, 3623]	4297	[5713, 41]	6320	[7673, 1636]
252	[488, 489]	2275	[3904, 3905]	4298	[6267, 6268]	6321	[7671, 7622]
253	[490, 491]	2276	[3906, 3907]	4299	[6269, 1941]	6322	[3750, 7146]
254	[492, 493]	2277	[3908, 3909]	4300	[5669, 5728]	6323	[4672, 7674]
255	[494, 492]	2278	[3910, 3911]	4301	[188, 6270]	6324	[277, 7675]
256	[495, 496]	2279	[3912, 3913]	4302	[6271, 5752]	6325	[3905, 4405]
257	[497, 498]	2280	[3793, 3914]	4303	[5802, 2291]	6326	[3167, 7259]
258	[151, 499]	2281	[3915, 3702]	4304	[4977, 487]	6327	[4739, 7618]
259	[155, 500]	2282	[3916, 3917]	4305	[2374, 6272]	6328	[3460, 7676]
260	[501, 502]	2283	[1151, 3918]	4306	[6273, 5414]	6329	[1404, 4613]
261	[503, 504]	2284	[3657, 3919]	4307	[2496, 5930]	6330	[6956, 7466]
262	[505, 506]	2285	[1385, 3920]	4308	[916, 6274]	6331	[3255, 7677]
263	[507, 508]	2286	[1387, 3921]	4309	[5530, 5397]	6332	[7570, 1715]
264	[509, 510]	2287	[3922, 3663]	4310	[6275, 6276]	6333	[6756, 7415]
265	[511, 512]	2288	[3514, 3923]	4311	[6277, 1800]	6334	[7392, 7678]
266	[513, 514]	2289	[3132, 3924]	4312	[4896, 6278]	6335	[4022, 3625]
267	[515, 516]	2290	[3743, 3925]	4313	[6279, 6280]	6336	[7234, 398]
268	[517, 518]	2291	[3926, 3927]	4314	[6281, 2360]	6337	[4192, 7635]
269	[519, 520]	2292	[3928, 1355]	4315	[2843, 6282]	6338	[1635, 7538]
270	[521, 522]	2293	[3837, 3929]	4316	[2886, 2260]	6339	[7679, 7530]
271	[523, 524]	2294	[3930, 3744]	4317	[6283, 6284]	6340	[3918, 4231]
272	[525, 526]	2295	[3931, 3932]	4318	[5523, 1742]	6341	[4165, 7253]
273	[527, 528]	2296	[3933, 3934]	4319	[6285, 5831]	6342	[3652, 7680]
274	[529, 530]	2297	[3935, 3936]	4320	[2239, 833]	6343	[7681, 7682]
275	[180, 531]	2298	[3937, 3938]	4321	[6286, 5297]	6344	[1281, 6995]
276	[532, 533]	2299	[3939, 3940]	4322	[6287, 5872]	6345	[7615, 3961]
277	[534, 535]	2300	[3941, 3942]	4323	[6288, 5160]	6346	[4817, 7683]
278	[536, 537]	2301	[3943, 3944]	4324	[6289, 5642]	6347	[7670, 3183]
279	[538, 539]	2302	[3113, 3684]	4325	[6290, 6291]	6348	[4345, 1507]
280	[540, 541]	2303	[3945, 3946]	4326	[6212, 5253]	6349	[3325, 7353]
281	[542, 543]	2304	[1486, 3947]	4327	[6292, 6112]	6350	[4607, 3269]
282	[544, 545]	2305	[3948, 3949]	4328	[625, 6293]	6351	[7039, 3738]
283	[546, 547]	2306	[3881, 3950]	4329	[6294, 55]	6352	[6707, 7001]
284	[548, 549]	2307	[3951, 3952]	4330	[6295, 6104]	6353	[7281, 1250]
285	[550, 551]	2308	[3953, 448]	4331	[6296, 2511]	6354	[6843, 7422]
286	[552, 553]	2309	[3954, 3955]	4332	[6297, 6298]	6355	[7097, 294]
287	[554, 555]	2310	[1164, 3277]	4333	[2060, 2630]	6356	[7095, 4014]
288	[556, 557]	2311	[3466, 3915]	4334	[6299, 2693]	6357	[1647, 7684]
289	[558, 559]	2312	[3956, 3957]	4335	[565, 6300]	6358	[1650, 7685]
290	[560, 561]	2313	[3958, 3746]	4336	[6301, 2602]	6359	[7193, 1689]
291	[562, 563]	2314	[3959, 3960]	4337	[2989, 6302]	6360	[6886, 6991]

292	[564, 565]	2315	[3961, 3962]	4338	[2827, 4897]	6361	[6921, 1244]
293	[566, 567]	2316	[3963, 3964]	4339	[6303, 6304]	6362	[7686, 7482]
294	[568, 569]	2317	[3965, 1209]	4340	[5161, 6305]	6363	[7687, 6775]
295	[570, 571]	2318	[3966, 1016]	4341	[6306, 4883]	6364	[7245, 7666]
296	[572, 573]	2319	[3967, 3968]	4342	[5469, 2173]	6365	[7610, 3896]
297	[574, 575]	2320	[3969, 3970]	4343	[6307, 2332]	6366	[4250, 7458]
298	[576, 577]	2321	[3971, 358]	4344	[6308, 6309]	6367	[3233, 7688]
299	[578, 579]	2322	[3972, 3973]	4345	[6310, 6311]	6368	[7407, 6793]
300	[580, 581]	2323	[3974, 3975]	4346	[5426, 5934]	6369	[7653, 7689]
301	[582, 583]	2324	[3976, 3977]	4347	[6312, 5501]	6370	[7371, 7690]
302	[584, 585]	2325	[1231, 3978]	4348	[2189, 5724]	6371	[4248, 3870]
303	[586, 587]	2326	[1161, 3205]	4349	[6313, 5748]	6372	[7691, 7692]
304	[588, 589]	2327	[3979, 3785]	4350	[6314, 6149]	6373	[7285, 7693]
305	[590, 591]	2328	[3980, 255]	4351	[6315, 6316]	6374	[4346, 7694]
306	[592, 593]	2329	[3796, 3650]	4352	[2041, 5849]	6375	[483, 7412]
307	[594, 595]	2330	[3667, 456]	4353	[6317, 2309]	6376	[7025, 3335]
308	[596, 597]	2331	[3839, 3103]	4354	[6195, 2889]	6377	[7695, 1141]
309	[598, 599]	2332	[3981, 3982]	4355	[4881, 49]	6378	[4846, 7696]
310	[600, 601]	2333	[3983, 3984]	4356	[6318, 6319]	6379	[7697, 1397]
311	[602, 603]	2334	[3985, 3986]	4357	[6320, 6321]	6380	[6855, 7698]
312	[604, 605]	2335	[3453, 1458]	4358	[6322, 5375]	6381	[7310, 7136]
313	[606, 607]	2336	[3987, 3988]	4359	[1886, 2657]	6382	[7676, 1337]
314	[608, 609]	2337	[3989, 3990]	4360	[6323, 6324]	6383	[1208, 3987]
315	[610, 611]	2338	[1643, 3991]	4361	[6325, 6326]	6384	[7699, 4763]
316	[612, 613]	2339	[3992, 3097]	4362	[6327, 6328]	6385	[7700, 4469]
317	[614, 615]	2340	[3993, 3994]	4363	[6329, 5225]	6386	[3399, 1092]
318	[616, 617]	2341	[3995, 390]	4364	[6330, 6331]	6387	[7626, 7701]
319	[618, 619]	2342	[3996, 3997]	4365	[6332, 5871]	6388	[80, 1158]
320	[620, 621]	2343	[3235, 3998]	4366	[6333, 5979]	6389	[4730, 7239]
321	[622, 623]	2344	[3999, 3937]	4367	[6334, 6335]	6390	[7657, 4604]
322	[624, 625]	2345	[3566, 4000]	4368	[6336, 6337]	6391	[4757, 7702]
323	[626, 627]	2346	[4001, 4002]	4369	[6338, 6339]	6392	[7121, 3112]
324	[510, 628]	2347	[3270, 3749]	4370	[5001, 2633]	6393	[1579, 7669]
325	[514, 629]	2348	[3342, 4003]	4371	[1888, 2787]	6394	[7167, 1676]
326	[630, 631]	2349	[4004, 4005]	4372	[512, 2789]	6395	[7006, 3177]
327	[632, 633]	2350	[4006, 4007]	4373	[4908, 5206]	6396	[3276, 4711]
328	[634, 635]	2351	[3593, 4008]	4374	[6340, 6341]	6397	[4472, 7703]
329	[636, 637]	2352	[4009, 4010]	4375	[2382, 6342]	6398	[4138, 6703]
330	[571, 638]	2353	[4011, 4012]	4376	[6343, 6325]	6399	[4500, 7348]
331	[639, 640]	2354	[1363, 4013]	4377	[5130, 6344]	6400	[4695, 1067]
332	[641, 642]	2355	[4014, 4015]	4378	[4968, 6240]	6401	[7704, 7705]
333	[643, 644]	2356	[4016, 4017]	4379	[6345, 6249]	6402	[4760, 3943]
334	[645, 646]	2357	[1446, 4018]	4380	[6346, 722]	6403	[7706, 7443]
335	[647, 648]	2358	[4019, 3382]	4381	[6347, 5585]	6404	[1501, 7493]

336	[649, 650]	2359	[3344, 4020]	4382	[1992, 6348]	6405	[7707, 1670]
337	[651, 652]	2360	[4021, 4022]	4383	[238, 6349]	6406	[7708, 355]
338	[653, 654]	2361	[4023, 4024]	4384	[5864, 6350]	6407	[7709, 7341]
339	[655, 656]	2362	[4025, 4026]	4385	[6351, 2158]	6408	[3759, 4582]
340	[657, 658]	2363	[4027, 4028]	4386	[635, 6352]	6409	[7639, 7186]
341	[659, 660]	2364	[4029, 4030]	4387	[5569, 6353]	6410	[4482, 3078]
342	[661, 662]	2365	[325, 4031]	4388	[6354, 6355]	6411	[3488, 7710]
343	[663, 664]	2366	[4032, 3567]	4389	[5465, 5735]	6412	[4459, 7711]
344	[665, 666]	2367	[4033, 4034]	4390	[2124, 1744]	6413	[4461, 6720]
345	[667, 668]	2368	[4035, 1549]	4391	[569, 6356]	6414	[7702, 7556]
346	[669, 670]	2369	[3472, 4036]	4392	[880, 6357]	6415	[4737, 7384]
347	[671, 672]	2370	[4037, 3989]	4393	[882, 6358]	6416	[7459, 4786]
348	[673, 674]	2371	[4038, 4039]	4394	[6359, 903]	6417	[987, 4787]
349	[675, 676]	2372	[3730, 4040]	4395	[2730, 517]	6418	[3268, 4320]
350	[581, 677]	2373	[4041, 1645]	4396	[2530, 2498]	6419	[4411, 3377]
351	[678, 679]	2374	[3128, 4042]	4397	[6360, 6361]	6420	[7380, 7695]
352	[680, 681]	2375	[4043, 4044]	4398	[6362, 5786]	6421	[7589, 3436]
353	[682, 683]	2376	[4045, 3114]	4399	[6363, 5658]	6422	[6794, 7712]
354	[684, 685]	2377	[4046, 4047]	4400	[5931, 6130]	6423	[4642, 7451]
355	[686, 687]	2378	[4048, 4049]	4401	[6364, 5266]	6424	[7405, 7273]
356	[688, 689]	2379	[1003, 4050]	4402	[6365, 5941]	6425	[7713, 7714]
357	[690, 691]	2380	[4051, 4052]	4403	[2794, 5709]	6426	[7513, 1031]
358	[50, 692]	2381	[3624, 1111]	4404	[6366, 5858]	6427	[7662, 4606]
359	[693, 694]	2382	[3356, 4053]	4405	[5829, 5862]	6428	[4034, 1593]
360	[695, 696]	2383	[1377, 4054]	4406	[5785, 2705]	6429	[4536, 6719]
361	[697, 698]	2384	[4055, 4056]	4407	[6367, 6368]	6430	[7715, 7419]
362	[699, 700]	2385	[4057, 4058]	4408	[1906, 5040]	6431	[1375, 3546]
363	[701, 702]	2386	[443, 4059]	4409	[2542, 6369]	6432	[7621, 1175]
364	[703, 704]	2387	[4060, 4061]	4410	[2028, 6370]	6433	[7689, 7448]
365	[705, 562]	2388	[3150, 3778]	4411	[6355, 5594]	6434	[7222, 7716]
366	[706, 707]	2389	[1563, 3234]	4412	[5555, 6371]	6435	[4527, 3121]
367	[708, 709]	2390	[935, 4062]	4413	[5986, 1818]	6436	[4161, 6804]
368	[710, 711]	2391	[4063, 4064]	4414	[6372, 6373]	6437	[1024, 6802]
369	[712, 713]	2392	[3897, 429]	4415	[5907, 3004]	6438	[4502, 4434]
370	[714, 715]	2393	[1264, 4065]	4416	[6374, 6375]	6439	[7130, 7717]
371	[716, 717]	2394	[3173, 1349]	4417	[2277, 5570]	6440	[7718, 7282]
372	[718, 719]	2395	[3263, 4066]	4418	[6376, 6377]	6441	[7112, 7229]
373	[720, 721]	2396	[4067, 1487]	4419	[6116, 6378]	6442	[7698, 7277]
374	[722, 723]	2397	[4068, 3279]	4420	[2273, 5404]	6443	[7544, 1469]
375	[724, 725]	2398	[1142, 4069]	4421	[6379, 6313]	6444	[1518, 7388]
376	[726, 727]	2399	[4070, 4071]	4422	[2528, 6380]	6445	[1565, 4722]
377	[728, 729]	2400	[434, 4072]	4423	[6381, 6382]	6446	[3938, 7623]
378	[730, 731]	2401	[3214, 4073]	4424	[5392, 5077]	6447	[4764, 7420]
379	[732, 733]	2402	[4074, 4075]	4425	[2589, 6383]	6448	[4524, 1065]

380	[734, 735]	2403	[4076, 4077]	4426	[5846, 2062]	6449	[7481, 7090]
381	[736, 737]	2404	[4078, 4079]	4427	[5698, 2644]	6450	[281, 7719]
382	[738, 739]	2405	[4080, 3242]	4428	[6064, 6384]	6451	[7293, 4154]
383	[740, 741]	2406	[4081, 4082]	4429	[729, 2475]	6452	[4735, 7720]
384	[742, 743]	2407	[4083, 4084]	4430	[5710, 2947]	6453	[4330, 4696]
385	[744, 745]	2408	[3373, 422]	4431	[5395, 2061]	6454	[7604, 326]
386	[746, 747]	2409	[4085, 1473]	4432	[793, 6385]	6455	[4853, 1541]
387	[748, 749]	2410	[962, 4086]	4433	[6386, 5272]	6456	[7721, 7722]
388	[750, 751]	2411	[1711, 3639]	4434	[2009, 6387]	6457	[7509, 3291]
389	[752, 753]	2412	[4087, 4088]	4435	[6388, 5261]	6458	[7449, 6718]
390	[754, 755]	2413	[3809, 4089]	4436	[5627, 5970]	6459	[7684, 7660]
391	[756, 757]	2414	[3659, 3974]	4437	[6389, 6390]	6460	[1581, 4128]
392	[758, 759]	2415	[4090, 3484]	4438	[866, 5433]	6461	[7723, 3215]
393	[760, 761]	2416	[4091, 348]	4439	[54, 4964]	6462	[3964, 7724]
394	[762, 763]	2417	[1055, 4092]	4440	[5590, 6391]	6463	[6717, 7725]
395	[764, 765]	2418	[4093, 1234]	4441	[2165, 6392]	6464	[365, 481]
396	[766, 767]	2419	[4094, 4095]	4442	[6393, 5254]	6465	[7710, 4431]
397	[768, 769]	2420	[4096, 1271]	4443	[6394, 800]	6466	[7726, 4021]
398	[770, 771]	2421	[3786, 3536]	4444	[2442, 6395]	6467	[7665, 7727]
399	[772, 773]	2422	[4097, 1103]	4445	[6396, 2904]	6468	[3237, 7571]
400	[774, 775]	2423	[3454, 4098]	4446	[6397, 2532]	6469	[7398, 7699]
401	[776, 777]	2424	[4099, 4100]	4447	[6060, 6398]	6470	[1172, 4705]
402	[778, 779]	2425	[1179, 4101]	4448	[6378, 6399]	6471	[7529, 4535]
403	[780, 781]	2426	[4, 4102]	4449	[6400, 6401]	6472	[7643, 7312]
404	[782, 783]	2427	[4103, 4104]	4450	[6017, 588]	6473	[7728, 3810]
405	[784, 785]	2428	[3968, 4105]	4451	[6402, 6403]	6474	[3387, 4820]
406	[786, 787]	2429	[4106, 4107]	4452	[1833, 6404]	6475	[7729, 7605]
407	[788, 789]	2430	[4108, 1523]	4453	[2380, 6405]	6476	[7214, 3511]
408	[790, 791]	2431	[4109, 4110]	4454	[6406, 6407]	6477	[3458, 1261]
409	[792, 793]	2432	[4111, 4112]	4455	[2962, 6408]	6478	[7703, 7265]
410	[794, 742]	2433	[1420, 4113]	4456	[202, 6409]	6479	[7261, 3343]
411	[795, 796]	2434	[4114, 4115]	4457	[6410, 2004]	6480	[4205, 3564]
412	[797, 798]	2435	[4116, 4117]	4458	[2938, 6411]	6481	[6745, 3250]
413	[799, 183]	2436	[4118, 4119]	4459	[6412, 6413]	6482	[7531, 7730]
414	[800, 801]	2437	[1057, 418]	4460	[3012, 6414]	6483	[1738, 6827]
415	[802, 803]	2438	[4120, 4121]	4461	[6257, 6303]	6484	[7492, 6979]
416	[804, 805]	2439	[3628, 4122]	4462	[2430, 2492]	6485	[7294, 4067]
417	[806, 807]	2440	[4123, 4124]	4463	[638, 5358]	6486	[7563, 3072]
418	[808, 809]	2441	[4125, 4126]	4464	[5936, 2956]	6487	[6986, 4379]
419	[810, 811]	2442	[4040, 4127]	4465	[6415, 802]	6488	[7268, 7731]
420	[812, 813]	2443	[4128, 4129]	4466	[6416, 6417]	6489	[3165, 7732]
421	[814, 815]	2444	[4130, 4131]	4467	[212, 45]	6490	[7562, 7184]
422	[60, 816]	2445	[3851, 3769]	4468	[2647, 2230]	6491	[7616, 4586]
423	[817, 818]	2446	[4132, 4133]	4469	[2050, 6418]	6492	[4121, 1704]

424	[819, 820]	2447	[4134, 3824]	4470	[6419, 6362]	6493	[7043, 6881]
425	[821, 822]	2448	[4135, 4136]	4471	[1930, 5400]	6494	[259, 7092]
426	[823, 630]	2449	[4137, 4138]	4472	[5283, 1921]	6495	[7638, 6945]
427	[824, 825]	2450	[4139, 4130]	4473	[5374, 5865]	6496	[4529, 268]
428	[826, 827]	2451	[4140, 1413]	4474	[852, 6420]	6497	[4173, 7503]
429	[828, 829]	2452	[3122, 4141]	4475	[6268, 6421]	6498	[7334, 3485]
430	[830, 831]	2453	[412, 4142]	4476	[5628, 6422]	6499	[7087, 6825]
431	[791, 832]	2454	[3834, 1717]	4477	[6423, 6424]	6500	[7733, 4352]
432	[833, 834]	2455	[4143, 4144]	4478	[6425, 6426]	6501	[3986, 435]
433	[835, 836]	2456	[3186, 4145]	4479	[6427, 2816]	6502	[3615, 437]
434	[837, 795]	2457	[4146, 4147]	4480	[5134, 2421]	6503	[7315, 7637]
435	[838, 839]	2458	[4148, 4149]	4481	[6428, 5682]	6504	[4222, 4225]
436	[840, 841]	2459	[4150, 3245]	4482	[6429, 4901]	6505	[96, 1434]
437	[842, 843]	2460	[1350, 1411]	4483	[5413, 5760]	6506	[7208, 1731]
438	[844, 501]	2461	[1346, 4151]	4484	[6430, 6431]	6507	[275, 7565]
439	[845, 846]	2462	[1348, 4152]	4485	[6432, 6433]	6508	[3925, 7734]
440	[847, 848]	2463	[1550, 4153]	4486	[5897, 6434]	6509	[7013, 1201]
441	[849, 850]	2464	[4154, 4091]	4487	[5444, 6301]	6510	[7711, 4591]
442	[851, 852]	2465	[3674, 4155]	4488	[2753, 6435]	6511	[3599, 3761]
443	[853, 854]	2466	[4156, 4157]	4489	[640, 2493]	6512	[7735, 7736]
444	[855, 856]	2467	[4158, 4159]	4490	[633, 6436]	6513	[4710, 4676]
445	[857, 858]	2468	[4160, 4161]	4491	[6437, 6438]	6514	[1129, 6940]
446	[859, 678]	2469	[3395, 4162]	4492	[6439, 6440]	6515	[3560, 4479]
447	[860, 861]	2470	[4163, 4164]	4493	[5769, 6441]	6516	[7364, 344]
448	[862, 863]	2471	[1300, 4165]	4494	[5355, 5508]	6517	[7633, 6884]
449	[864, 684]	2472	[4166, 4167]	4495	[6029, 6442]	6518	[7727, 7183]
450	[865, 866]	2473	[3771, 4168]	4496	[5428, 2144]	6519	[6889, 4678]
451	[867, 868]	2474	[1663, 3876]	4497	[2067, 2079]	6520	[6757, 7647]
452	[869, 870]	2475	[3117, 4169]	4498	[5035, 2700]	6521	[6988, 7737]
453	[711, 574]	2476	[1034, 4170]	4499	[6015, 6443]	6522	[3246, 6978]
454	[871, 872]	2477	[4171, 3086]	4500	[246, 5560]	6523	[7738, 7177]
455	[873, 874]	2478	[4172, 4173]	4501	[1781, 2008]	6524	[383, 1370]
456	[875, 876]	2479	[4174, 3951]	4502	[6444, 5883]	6525	[4126, 6994]
457	[877, 878]	2480	[4175, 4176]	4503	[5840, 6034]	6526	[7302, 4559]
458	[879, 880]	2481	[1673, 4177]	4504	[6445, 6446]	6527	[7483, 7464]
459	[881, 882]	2482	[4178, 4179]	4505	[6447, 5806]	6528	[3380, 7495]
460	[883, 884]	2483	[4180, 4181]	4506	[5951, 6448]	6529	[4122, 6927]
461	[885, 886]	2484	[4182, 4183]	4507	[2353, 5468]	6530	[3176, 7553]
462	[884, 887]	2485	[4184, 4185]	4508	[5407, 923]	6531	[1591, 6938]
463	[888, 889]	2486	[4186, 1154]	4509	[2877, 6051]	6532	[7737, 4290]
464	[890, 891]	2487	[4187, 3637]	4510	[2091, 207]	6533	[7067, 3127]
465	[892, 893]	2488	[4188, 3137]	4511	[5976, 6449]	6534	[7693, 7231]
466	[894, 895]	2489	[4189, 4190]	4512	[6450, 6451]	6535	[7002, 7629]
467	[896, 897]	2490	[4191, 4192]	4513	[6341, 2517]	6536	[4285, 7739]

468	[898, 546]	2491	[4193, 4194]	4514	[2466, 1809]	6537	[4310, 4832]
469	[899, 900]	2492	[4195, 4196]	4515	[6452, 6453]	6538	[7680, 7607]
470	[901, 902]	2493	[4197, 3504]	4516	[6454, 215]	6539	[7740, 1493]
471	[903, 904]	2494	[1216, 4198]	4517	[6455, 819]	6540	[4366, 7132]
472	[905, 906]	2495	[3609, 4199]	4518	[2494, 6456]	6541	[7599, 7295]
473	[907, 908]	2496	[4200, 312]	4519	[6457, 213]	6542	[7467, 6870]
474	[909, 910]	2497	[1392, 4201]	4520	[5663, 6299]	6543	[4725, 4298]
475	[911, 912]	2498	[4202, 4203]	4521	[6458, 6429]	6544	[7250, 4097]
476	[913, 914]	2499	[4204, 4205]	4522	[2745, 1774]	6545	[7120, 7325]
477	[915, 916]	2500	[4206, 4207]	4523	[6459, 6283]	6546	[3877, 6933]
478	[917, 918]	2501	[1686, 4208]	4524	[2970, 1980]	6547	[7741, 7649]
479	[919, 920]	2502	[1357, 4209]	4525	[6234, 6367]	6548	[3562, 4277]
480	[921, 922]	2503	[4210, 4211]	4526	[1977, 2084]	6549	[406, 1223]
481	[923, 924]	2504	[341, 4212]	4527	[6200, 6460]	6550	[4489, 7318]
482	[925, 926]	2505	[1383, 4213]	4528	[6039, 905]	6551	[4526, 7742]
483	[927, 172]	2506	[4214, 3996]	4529	[6461, 5915]	6552	[3180, 1504]
484	[928, 929]	2507	[4215, 3470]	4530	[642, 6140]	6553	[4325, 4572]
485	[930, 931]	2508	[4216, 4217]	4531	[6462, 1782]	6554	[4323, 3857]
486	[932, 933]	2509	[4183, 4218]	4532	[6463, 6347]	6555	[7688, 7496]
487	[934, 935]	2510	[4185, 4219]	4533	[2747, 6464]	6556	[7566, 3780]
488	[936, 937]	2511	[4220, 4081]	4534	[6465, 6466]	6557	[6930, 7624]
489	[938, 939]	2512	[4221, 4222]	4535	[5139, 2600]	6558	[7641, 4684]
490	[940, 941]	2513	[4223, 4224]	4536	[6467, 6468]	6559	[474, 3714]
491	[942, 943]	2514	[4225, 4226]	4537	[6469, 1885]	6560	[4636, 4251]
492	[944, 945]	2515	[4227, 4228]	4538	[2821, 6447]	6561	[7743, 3890]
493	[946, 947]	2516	[4229, 4230]	4539	[6470, 2899]	6562	[6872, 7721]
494	[948, 946]	2517	[4231, 3123]	4540	[6471, 3026]	6563	[3960, 7723]
495	[949, 950]	2518	[4232, 4233]	4541	[6472, 6473]	6564	[415, 7497]
496	[951, 952]	2519	[3447, 4234]	4542	[6383, 6474]	6565	[7366, 4347]
497	[953, 954]	2520	[4235, 4236]	4543	[1988, 6063]	6566	[4020, 4785]
498	[955, 956]	2521	[3501, 4237]	4544	[2640, 2023]	6567	[7744, 3879]
499	[297, 957]	2522	[4238, 4239]	4545	[6475, 6138]	6568	[1240, 3461]
500	[305, 958]	2523	[1155, 4240]	4546	[662, 6340]	6569	[468, 282]
501	[959, 960]	2524	[4077, 4241]	4547	[2537, 6106]	6570	[7576, 7028]
502	[961, 962]	2525	[4242, 1714]	4548	[6012, 6476]	6571	[3949, 6983]
503	[963, 964]	2526	[4243, 4244]	4549	[1859, 6477]	6572	[7284, 7745]
504	[965, 966]	2527	[3745, 1660]	4550	[5182, 883]	6573	[6898, 7595]
505	[967, 968]	2528	[4245, 4246]	4551	[5326, 5418]	6574	[7746, 4523]
506	[969, 970]	2529	[4247, 4248]	4552	[6478, 6479]	6575	[6700, 1382]
507	[971, 972]	2530	[4249, 4250]	4553	[4966, 6480]	6576	[6946, 4702]
508	[973, 67]	2531	[4251, 306]	4554	[6481, 2780]	6577	[3729, 7747]
509	[974, 975]	2532	[4252, 4253]	4555	[2214, 1910]	6578	[1338, 4057]
510	[976, 977]	2533	[4254, 4255]	4556	[2254, 1996]	6579	[7748, 4708]
511	[978, 979]	2534	[4047, 4256]	4557	[6482, 6483]	6580	[4789, 6984]

512	[980, 981]	2535	[4257, 4258]	4558	[6282, 6068]	6581	[381, 6955]
513	[982, 983]	2536	[4259, 3697]	4559	[6209, 6445]	6582	[7460, 7546]
514	[984, 985]	2537	[3893, 4260]	4560	[5910, 6484]	6583	[3752, 4841]
515	[986, 372]	2538	[3200, 4261]	4561	[6485, 2395]	6584	[6789, 3688]
516	[121, 987]	2539	[4262, 4263]	4562	[6486, 1746]	6585	[4752, 7340]
517	[988, 989]	2540	[4264, 4265]	4563	[6487, 2626]	6586	[7749, 384]
518	[990, 991]	2541	[4266, 4267]	4564	[6488, 2257]	6587	[4299, 3724]
519	[992, 993]	2542	[991, 4268]	4565	[6205, 3039]	6588	[4082, 7707]
520	[994, 995]	2543	[4269, 4270]	4566	[6489, 6490]	6589	[6867, 101]
521	[996, 997]	2544	[4271, 3711]	4567	[6491, 6478]	6590	[1474, 7750]
522	[998, 999]	2545	[4272, 4273]	4568	[5123, 5094]	6591	[7066, 4566]
523	[1000, 1001]	2546	[1009, 3808]	4569	[6492, 5801]	6592	[7678, 7019]
524	[1002, 1003]	2547	[4274, 1417]	4570	[1760, 5673]	6593	[4474, 7533]
525	[1004, 1005]	2548	[4275, 4276]	4571	[5248, 6493]	6594	[3537, 7280]
526	[1006, 1007]	2549	[4194, 1702]	4572	[6494, 6495]	6595	[4230, 7480]
527	[1008, 1009]	2550	[4277, 1525]	4573	[6280, 572]	6596	[6908, 405]
528	[1010, 1011]	2551	[3261, 3118]	4574	[5946, 4888]	6597	[6960, 7718]
529	[1012, 1013]	2552	[1077, 4278]	4575	[5441, 2217]	6598	[315, 6964]
530	[1014, 1015]	2553	[4279, 1710]	4576	[5546, 6496]	6599	[7705, 7686]
531	[1016, 1017]	2554	[28, 1578]	4577	[6497, 6498]	6600	[4293, 7691]
532	[1018, 1019]	2555	[4280, 3211]	4578	[6499, 6500]	6601	[4650, 7476]
533	[1020, 1021]	2556	[4281, 4282]	4579	[6501, 6502]	6602	[3259, 3559]
534	[1022, 1023]	2557	[4283, 4284]	4580	[6503, 6504]	6603	[7539, 7368]
535	[307, 1024]	2558	[3506, 4285]	4581	[595, 5021]	6604	[6968, 7286]
536	[1025, 1026]	2559	[4286, 4287]	4582	[5754, 6228]	6605	[7540, 7751]
537	[1027, 1028]	2560	[4288, 4289]	4583	[48, 6505]	6606	[7027, 3527]
538	[1029, 1030]	2561	[4290, 4291]	4584	[2489, 2471]	6607	[3071, 7314]
539	[1031, 1032]	2562	[4292, 4293]	4585	[6506, 6507]	6608	[7104, 7439]
540	[1033, 1034]	2563	[4294, 1519]	4586	[6508, 2931]	6609	[7752, 7709]
541	[1035, 1036]	2564	[4159, 4259]	4587	[2249, 6225]	6610	[4666, 4513]
542	[1037, 1038]	2565	[285, 4295]	4588	[6509, 5162]	6611	[7672, 4734]
543	[1039, 1040]	2566	[3496, 1415]	4589	[5220, 5544]	6612	[4691, 3631]
544	[1041, 1042]	2567	[1414, 260]	4590	[5965, 5490]	6613	[22, 4220]
545	[1043, 1044]	2568	[1023, 4296]	4591	[6413, 6510]	6614	[7690, 7520]
546	[1045, 1046]	2569	[4297, 3440]	4592	[3030, 6287]	6615	[389, 6835]
547	[1047, 1048]	2570	[4298, 4299]	4593	[6438, 4985]	6616	[3443, 413]
548	[1049, 396]	2571	[3679, 4300]	4594	[4928, 2096]	6617	[1623, 7059]
549	[1050, 1051]	2572	[4301, 4302]	4595	[6511, 6512]	6618	[7017, 1056]
550	[1052, 1053]	2573	[4303, 4304]	4596	[2905, 6513]	6619	[7674, 953]
551	[1054, 1055]	2574	[4305, 4306]	4597	[1831, 6514]	6620	[6892, 7182]
552	[1056, 1057]	2575	[4307, 4308]	4598	[6515, 5619]	6621	[7753, 1327]
553	[1058, 1059]	2576	[4309, 4310]	4599	[5029, 6516]	6622	[4478, 7628]
554	[1060, 1061]	2577	[3409, 4311]	4600	[1956, 6517]	6623	[6935, 4599]
555	[1062, 1063]	2578	[4312, 4313]	4601	[6468, 6518]	6624	[3222, 1147]

556	[1064, 382]	2579	[4314, 4315]	4602	[6519, 6028]	6625	[7754, 340]
557	[1065, 1066]	2580	[4316, 4317]	4603	[6520, 5209]	6626	[7306, 1041]
558	[1067, 940]	2581	[4318, 4319]	4604	[6521, 6522]	6627	[7339, 4848]
559	[1068, 1069]	2582	[4320, 4321]	4605	[5659, 6523]	6628	[7755, 4357]
560	[1070, 1071]	2583	[3087, 3505]	4606	[6524, 867]	6629	[3220, 4327]
561	[1072, 1073]	2584	[4322, 4323]	4607	[6525, 5179]	6630	[4276, 4658]
562	[1074, 1075]	2585	[4324, 4325]	4608	[2216, 5282]	6631	[1112, 4396]
563	[1076, 1077]	2586	[3119, 1622]	4609	[4970, 2495]	6632	[1344, 7118]
564	[1078, 1079]	2587	[4226, 4326]	4610	[5494, 2276]	6633	[3510, 4342]
565	[269, 1080]	2588	[4327, 4328]	4611	[6526, 2776]	6634	[7258, 7756]
566	[1081, 1082]	2589	[4329, 4330]	4612	[163, 6327]	6635	[1330, 7757]
567	[1083, 1084]	2590	[4331, 4332]	4613	[3023, 6527]	6636	[4594, 3481]
568	[1085, 1085]	2591	[4333, 1449]	4614	[6528, 5911]	6637	[7758, 1616]
569	[1086, 1087]	2592	[4334, 1018]	4615	[2638, 6529]	6638	[7525, 7319]
570	[1088, 1089]	2593	[4335, 4336]	4616	[5971, 5111]	6639	[7522, 7664]
571	[1090, 1091]	2594	[4337, 4338]	4617	[6250, 2184]	6640	[3875, 7262]
572	[1092, 1093]	2595	[4079, 3158]	4618	[2224, 6530]	6641	[7645, 938]
573	[1094, 1095]	2596	[4170, 4339]	4619	[5346, 6531]	6642	[7549, 7758]
574	[1096, 1097]	2597	[4340, 3954]	4620	[5180, 2536]	6643	[7557, 4512]
575	[1098, 1099]	2598	[100, 3328]	4621	[2716, 5352]	6644	[20, 4667]
576	[1100, 1101]	2599	[1729, 1325]	4622	[1791, 5638]	6645	[323, 7673]
577	[1102, 477]	2600	[4341, 3271]	4623	[2036, 2438]	6646	[3934, 108]
578	[1103, 1104]	2601	[4342, 4343]	4624	[6532, 6439]	6647	[999, 4033]
579	[1105, 1106]	2602	[1641, 3482]	4625	[6533, 2484]	6648	[3568, 1604]
580	[1107, 1108]	2603	[4344, 4345]	4626	[6534, 6535]	6649	[7317, 4593]
581	[1109, 1110]	2604	[371, 1644]	4627	[5467, 5900]	6650	[6832, 3935]
582	[1111, 1112]	2605	[3465, 4346]	4628	[5532, 1803]	6651	[3591, 6977]
583	[1113, 1114]	2606	[4347, 4348]	4629	[6536, 6102]	6652	[7402, 6741]
584	[1115, 1116]	2607	[4349, 4350]	4630	[2736, 6537]	6653	[7759, 7760]
585	[1117, 1118]	2608	[1571, 4351]	4631	[1958, 6538]	6654	[3902, 1529]
586	[1119, 1120]	2609	[4352, 4353]	4632	[6125, 6539]	6655	[4683, 4698]
587	[1121, 1122]	2610	[4354, 4355]	4633	[815, 5136]	6656	[3768, 1035]
588	[1123, 1124]	2611	[4356, 4340]	4634	[528, 1900]	6657	[3942, 7175]
589	[1125, 298]	2612	[4357, 3802]	4635	[6166, 1826]	6658	[1255, 6839]
590	[1126, 1127]	2613	[3476, 4358]	4636	[5436, 592]	6659	[3856, 7761]
591	[1128, 1129]	2614	[1015, 4359]	4637	[4987, 6540]	6660	[997, 3077]
592	[1091, 1130]	2615	[1146, 4360]	4638	[3021, 6444]	6661	[7731, 7352]
593	[1131, 1132]	2616	[4361, 3694]	4639	[5545, 6092]	6662	[7303, 7101]
594	[1133, 1134]	2617	[4362, 4363]	4640	[2987, 5868]	6663	[1237, 7630]
595	[1135, 1136]	2618	[4364, 475]	4641	[2202, 1790]	6664	[4622, 7577]
596	[1137, 1138]	2619	[4365, 4366]	4642	[5417, 5356]	6665	[3844, 7552]
597	[1139, 1140]	2620	[4367, 4368]	4643	[6541, 6363]	6666	[7453, 3285]
598	[1141, 1142]	2621	[4369, 4370]	4644	[2617, 5662]	6667	[4295, 6875]
599	[1143, 1144]	2622	[4371, 4372]	4645	[5759, 6108]	6668	[7519, 3583]

600	[1145, 1146]	2623	[4373, 4374]	4646	[6542, 5240]	6669	[4059, 7762]
601	[1147, 1148]	2624	[4375, 1090]	4647	[5424, 2006]	6670	[7763, 6975]
602	[1149, 1150]	2625	[1406, 4376]	4648	[6543, 6048]	6671	[7603, 3070]
603	[430, 1151]	2626	[4377, 4378]	4649	[6544, 187]	6672	[1188, 6799]
604	[1152, 1153]	2627	[4379, 4380]	4650	[5681, 6343]	6673	[7009, 4354]
605	[1154, 1155]	2628	[4381, 4382]	4651	[5072, 6425]	6674	[6990, 7211]
606	[1097, 1156]	2629	[4383, 4384]	4652	[5618, 6310]	6675	[7667, 7375]
607	[1157, 1107]	2630	[4385, 4386]	4653	[2340, 2268]	6676	[3556, 1428]
608	[1158, 1159]	2631	[3590, 4387]	4654	[5174, 5984]	6677	[3741, 3643]
609	[1160, 1161]	2632	[1615, 4388]	4655	[2950, 2428]	6678	[6800, 4202]
610	[1162, 1163]	2633	[4389, 4390]	4656	[6545, 2839]	6679	[6849, 3690]
611	[395, 1164]	2634	[1732, 4391]	4657	[6546, 6547]	6680	[7083, 7204]
612	[1165, 1166]	2635	[4392, 4393]	4658	[6548, 6549]	6681	[7761, 6691]
613	[1044, 1167]	2636	[4394, 4395]	4659	[6368, 4895]	6682	[7764, 7359]
614	[1168, 1169]	2637	[4396, 4397]	4660	[6331, 2628]	6683	[7765, 7766]
615	[1066, 1170]	2638	[1229, 1657]	4661	[6550, 5615]	6684	[1379, 7569]
616	[1171, 1172]	2639	[401, 3534]	4662	[2954, 5617]	6685	[7739, 3565]
617	[1173, 1174]	2640	[4398, 4399]	4663	[6504, 5087]	6686	[3290, 3966]
618	[1175, 1176]	2641	[1457, 4223]	4664	[6551, 6218]	6687	[1321, 6859]
619	[1059, 1177]	2642	[293, 4335]	4665	[6552, 6273]	6688	[6697, 3446]
620	[1178, 1179]	2643	[4400, 4125]	4666	[6553, 5221]	6689	[1433, 3820]
621	[1180, 1181]	2644	[4401, 4402]	4667	[40, 6388]	6690	[7767, 2877]
622	[952, 1182]	2645	[4403, 4271]	4668	[6373, 2952]	6691	[4879, 2377]
623	[1183, 1184]	2646	[4404, 3841]	4669	[2585, 6554]	6692	[6522, 6532]
624	[1185, 1186]	2647	[4405, 3843]	4670	[6555, 6556]	6693	[7768, 2270]
625	[1187, 1188]	2648	[3936, 4406]	4671	[6466, 2671]	6694	[7769, 4941]
626	[1189, 1190]	2649	[345, 4407]	4672	[6557, 1844]	6695	[5331, 5857]
627	[1191, 1192]	2650	[4408, 4409]	4673	[6231, 6558]	6696	[2264, 6052]
628	[975, 1193]	2651	[4410, 4411]	4674	[6559, 5286]	6697	[2772, 6267]
629	[983, 1194]	2652	[4412, 1189]	4675	[2724, 5023]	6698	[6077, 7770]
630	[1195, 1196]	2653	[960, 428]	4676	[6560, 2940]	6699	[6118, 5431]
631	[1197, 1198]	2654	[4413, 4414]	4677	[2523, 6561]	6700	[5394, 5612]
632	[1199, 1200]	2655	[3781, 4415]	4678	[6562, 2000]	6701	[5814, 521]
633	[1201, 1202]	2656	[4416, 4344]	4679	[6563, 6564]	6702	[6044, 513]
634	[1203, 1204]	2657	[3317, 4019]	4680	[660, 708]	6703	[6137, 6665]
635	[1205, 1206]	2658	[1235, 4417]	4681	[6565, 2354]	6704	[7771, 5115]
636	[1207, 1208]	2659	[4418, 3969]	4682	[6566, 2976]	6705	[7772, 6486]
637	[1209, 1210]	2660	[1268, 4419]	4683	[5942, 1753]	6706	[5798, 5670]
638	[1211, 1212]	2661	[4420, 4421]	4684	[6567, 6568]	6707	[7773, 6132]
639	[1213, 1214]	2662	[4422, 4423]	4685	[6569, 142]	6708	[2104, 2172]
640	[1215, 1216]	2663	[3661, 4424]	4686	[6570, 2021]	6709	[2879, 7774]
641	[1217, 1218]	2664	[3579, 4425]	4687	[6473, 2207]	6710	[5048, 2833]
642	[1219, 1220]	2665	[1220, 4426]	4688	[5653, 766]	6711	[5603, 6379]
643	[1221, 1222]	2666	[4397, 3116]	4689	[6571, 5878]	6712	[5120, 6217]

644	[1223, 1224]	2667	[1275, 3581]	4690	[5571, 6572]	6713	[7775, 622]
645	[1225, 1226]	2668	[4427, 3063]	4691	[6514, 6281]	6714	[6348, 6253]
646	[1227, 1086]	2669	[4428, 4429]	4692	[2710, 6573]	6715	[7776, 6600]
647	[1228, 1229]	2670	[4430, 3908]	4693	[5826, 4946]	6716	[2007, 6187]
648	[1230, 1231]	2671	[4431, 3646]	4694	[6516, 2375]	6717	[6633, 699]
649	[1073, 1232]	2672	[3424, 4432]	4695	[6574, 5131]	6718	[508, 4890]
650	[1233, 1143]	2673	[3871, 4322]	4696	[6226, 43]	6719	[6435, 2806]
651	[1234, 1235]	2674	[1394, 4186]	4697	[2176, 6575]	6720	[6414, 5026]
652	[1236, 1237]	2675	[3154, 4433]	4698	[5364, 5712]	6721	[1922, 5480]
653	[1238, 1239]	2676	[4203, 3606]	4699	[5222, 2278]	6722	[3008, 6526]
654	[1156, 1240]	2677	[4434, 4435]	4700	[6576, 6577]	6723	[7777, 6076]
655	[1241, 1242]	2678	[4436, 4437]	4701	[6578, 6509]	6724	[6026, 7778]
656	[455, 1243]	2679	[4438, 4439]	4702	[6020, 6579]	6725	[7779, 3053]
657	[1244, 1245]	2680	[1597, 3080]	4703	[6040, 6580]	6726	[1785, 5164]
658	[1246, 1247]	2681	[287, 4440]	4704	[5620, 6581]	6727	[6417, 2979]
659	[1248, 1249]	2682	[4441, 4442]	4705	[6582, 6016]	6728	[7780, 6622]
660	[1250, 1251]	2683	[3696, 4443]	4706	[2167, 6583]	6729	[2998, 7781]
661	[1252, 1253]	2684	[4444, 4445]	4707	[6584, 2125]	6730	[6507, 6245]
662	[1254, 1255]	2685	[4446, 969]	4708	[6517, 2152]	6731	[6628, 5085]
663	[84, 1256]	2686	[4447, 4448]	4709	[5518, 6560]	6732	[664, 2951]
664	[1257, 1258]	2687	[4449, 3548]	4710	[6585, 6586]	6733	[2074, 894]
665	[1259, 1260]	2688	[3619, 3901]	4711	[6210, 6587]	6734	[7782, 7783]
666	[1261, 1262]	2689	[3145, 4450]	4712	[5186, 1854]	6735	[5505, 7784]
667	[1263, 1264]	2690	[4451, 4452]	4713	[2407, 6588]	6736	[7785, 6262]
668	[1265, 1266]	2691	[283, 3930]	4714	[5533, 5548]	6737	[6148, 758]
669	[1267, 1268]	2692	[4453, 4454]	4715	[6589, 5867]	6738	[6632, 5334]
670	[1269, 1270]	2693	[4455, 4456]	4716	[6590, 6332]	6739	[2396, 2162]
671	[1271, 1272]	2694	[4457, 1081]	4717	[5582, 32]	6740	[2185, 6124]
672	[113, 1273]	2695	[4458, 4459]	4718	[2832, 612]	6741	[6390, 7786]
673	[1274, 1275]	2696	[4460, 4461]	4719	[6591, 6592]	6742	[7787, 7788]
674	[1276, 1277]	2697	[1734, 4462]	4720	[240, 6593]	6743	[7789, 797]
675	[1278, 1279]	2698	[4190, 4463]	4721	[6594, 6121]	6744	[186, 3048]
676	[1280, 1281]	2699	[1416, 3835]	4722	[2038, 6419]	6745	[5024, 6354]
677	[1108, 1282]	2700	[4464, 1662]	4723	[781, 6595]	6746	[7790, 2680]
678	[1283, 1284]	2701	[4465, 4466]	4724	[2003, 5556]	6747	[7791, 6597]
679	[1285, 1286]	2702	[1459, 4467]	4725	[6151, 505]	6748	[7792, 558]
680	[943, 93]	2703	[1461, 4468]	4726	[496, 5705]	6749	[5409, 1967]
681	[1287, 1288]	2704	[1463, 3993]	4727	[6596, 5854]	6750	[6062, 6555]
682	[1289, 1290]	2705	[4469, 4470]	4728	[6597, 5726]	6751	[2960, 7793]
683	[1291, 1292]	2706	[4471, 19]	4729	[2139, 6598]	6752	[2355, 6366]
684	[1293, 1294]	2707	[309, 3981]	4730	[2867, 6599]	6753	[3045, 7794]
685	[1295, 1296]	2708	[977, 4472]	4731	[6600, 6254]	6754	[2592, 768]
686	[1297, 1298]	2709	[4473, 4474]	4732	[6349, 6410]	6755	[6675, 7795]
687	[1299, 1300]	2710	[4475, 4476]	4733	[2722, 6550]	6756	[7796, 5348]

688	[1051, 1301]	2711	[4477, 3691]	4734	[6601, 6528]	6757	[2506, 5788]
689	[1302, 1303]	2712	[3102, 4478]	4735	[6602, 2039]	6758	[5596, 4973]
690	[1304, 4]	2713	[4479, 3096]	4736	[6603, 6156]	6759	[5311, 6656]
691	[1305, 1306]	2714	[4480, 1318]	4737	[4978, 9]	6760	[2625, 2037]
692	[1307, 1308]	2715	[4481, 4482]	4738	[2804, 2723]	6761	[1920, 7797]
693	[1309, 338]	2716	[4483, 4484]	4739	[5922, 6604]	6762	[7798, 7772]
694	[1310, 1311]	2717	[4485, 1432]	4740	[6371, 6269]	6763	[805, 4919]
695	[1312, 1313]	2718	[4486, 4487]	4741	[6084, 6605]	6764	[5503, 2725]
696	[1314, 1315]	2719	[1528, 4488]	4742	[6606, 2017]	6765	[7797, 2183]
697	[1316, 1317]	2720	[3095, 3647]	4743	[1942, 1769]	6766	[1750, 6011]
698	[1318, 1319]	2721	[3385, 4489]	4744	[2398, 6607]	6767	[5097, 726]
699	[1320, 1321]	2722	[4490, 4491]	4745	[5032, 5621]	6768	[5064, 7799]
700	[1322, 1323]	2723	[3782, 4492]	4746	[6608, 6285]	6769	[6634, 7800]
701	[72, 1324]	2724	[4493, 1564]	4747	[2981, 5927]	6770	[6093, 4975]
702	[1325, 1326]	2725	[4494, 3090]	4748	[6609, 6406]	6771	[557, 604]
703	[1327, 1328]	2726	[4495, 4085]	4749	[3035, 6610]	6772	[6385, 7801]
704	[1329, 1330]	2727	[4496, 1160]	4750	[3038, 6455]	6773	[6441, 5175]
705	[1331, 1332]	2728	[4497, 3175]	4751	[5856, 6611]	6774	[1829, 663]
706	[1333, 1022]	2729	[4498, 4499]	4752	[2434, 5443]	6775	[133, 5601]
707	[1334, 105]	2730	[3081, 4500]	4753	[2888, 6612]	6776	[7802, 6494]
708	[1335, 1336]	2731	[4501, 4502]	4754	[1903, 495]	6777	[6646, 7803]
709	[1337, 1338]	2732	[3909, 4503]	4755	[6564, 6461]	6778	[520, 7804]
710	[1339, 1096]	2733	[4504, 4505]	4756	[6046, 6096]	6779	[5169, 4953]
711	[1340, 1341]	2734	[3595, 1241]	4757	[6613, 5552]	6780	[5376, 5513]
712	[1342, 1307]	2735	[1559, 4506]	4758	[6614, 6323]	6781	[6215, 896]
713	[1343, 1344]	2736	[4507, 4508]	4759	[2247, 6615]	6782	[6554, 5797]
714	[1345, 1346]	2737	[3675, 4509]	4760	[2454, 6402]	6783	[196, 6524]
715	[1347, 1348]	2738	[4510, 103]	4761	[6616, 6224]	6784	[216, 7805]
716	[1349, 1350]	2739	[4142, 4511]	4762	[6617, 6618]	6785	[575, 7806]
717	[1351, 1352]	2740	[4512, 4301]	4763	[5933, 158]	6786	[6496, 2308]
718	[1353, 1354]	2741	[4470, 3475]	4764	[5483, 6619]	6787	[6408, 7807]
719	[1355, 1356]	2742	[4513, 272]	4765	[6079, 6620]	6788	[38, 130]
720	[441, 1357]	2743	[4514, 4515]	4766	[6229, 6318]	6789	[7808, 5680]
721	[1358, 1359]	2744	[4516, 4517]	4767	[6621, 6258]	6790	[7809, 5325]
722	[1360, 1361]	2745	[4518, 1500]	4768	[6622, 6623]	6791	[7810, 7811]
723	[1362, 1363]	2746	[4519, 4520]	4769	[2634, 6238]	6792	[1999, 7812]
724	[1364, 1365]	2747	[4521, 4481]	4770	[5764, 2853]	6793	[7813, 5493]
725	[1366, 1367]	2748	[4522, 1485]	4771	[5794, 5993]	6794	[6659, 6381]
726	[1368, 1369]	2749	[4523, 4316]	4772	[6404, 6624]	6795	[7814, 2390]
727	[1370, 1371]	2750	[1675, 4524]	4773	[6625, 6626]	6796	[5224, 6201]
728	[1372, 1373]	2751	[4525, 4526]	4774	[6477, 2010]	6797	[6426, 7815]
729	[1374, 1375]	2752	[4439, 4527]	4775	[6446, 5204]	6798	[6054, 2575]
730	[1376, 1377]	2753	[4528, 4529]	4776	[5664, 6627]	6799	[1817, 6557]
731	[1378, 1379]	2754	[4530, 4531]	4777	[6190, 5034]	6800	[2193, 7816]

732	[1380, 1381]	2755	[4532, 4533]	4778	[2032, 6628]	6801	[5905, 6566]
733	[1382, 1383]	2756	[3126, 4534]	4779	[1741, 2639]	6802	[2376, 6336]
734	[1384, 1385]	2757	[3654, 1171]	4780	[6629, 6630]	6803	[1904, 6559]
735	[1386, 1387]	2758	[4535, 4536]	4781	[6631, 6632]	6804	[5700, 2287]
736	[1388, 1389]	2759	[3923, 3345]	4782	[137, 6633]	6805	[6255, 6582]
737	[941, 1390]	2760	[4179, 4537]	4783	[2520, 6634]	6806	[5242, 4943]
738	[1391, 1392]	2761	[1017, 3945]	4784	[5013, 5565]	6807	[836, 925]
739	[1393, 1394]	2762	[4538, 1162]	4785	[5278, 5641]	6808	[6261, 2790]
740	[1395, 1396]	2763	[4539, 4540]	4786	[6635, 6038]	6809	[7817, 2943]
741	[1397, 1398]	2764	[4541, 4371]	4787	[668, 6636]	6810	[6604, 6126]
742	[1399, 1400]	2765	[4542, 4543]	4788	[1837, 6290]	6811	[5330, 7818]
743	[1401, 1402]	2766	[4544, 1511]	4789	[6637, 6127]	6812	[5624, 5371]
744	[1403, 1404]	2767	[4545, 4546]	4790	[6638, 5874]	6813	[6490, 6458]
745	[1405, 1406]	2768	[3788, 4547]	4791	[5370, 6639]	6814	[5093, 7819]
746	[1407, 1408]	2769	[3952, 4548]	4792	[5199, 2049]	6815	[5144, 4929]
747	[1409, 1410]	2770	[4549, 304]	4793	[6640, 5845]	6816	[135, 164]
748	[1411, 1412]	2771	[4550, 4551]	4794	[6641, 5550]	6817	[2819, 7820]
749	[1413, 1414]	2772	[4552, 1139]	4795	[2996, 5096]	6818	[5246, 7817]
750	[1415, 1416]	2773	[4141, 4553]	4796	[683, 6642]	6819	[6284, 5723]
751	[1417, 1418]	2774	[4554, 4555]	4797	[1752, 2105]	6820	[6184, 6519]
752	[1419, 1420]	2775	[4556, 4557]	4798	[6042, 6643]	6821	[5980, 7821]
753	[1421, 1422]	2776	[4005, 4558]	4799	[6644, 2965]	6822	[7822, 4958]
754	[1423, 1424]	2777	[4559, 1464]	4800	[6645, 6646]	6823	[7823, 7824]
755	[1425, 1426]	2778	[4560, 4561]	4801	[6398, 4885]	6824	[6654, 7825]
756	[1427, 1072]	2779	[4562, 3672]	4802	[6647, 4880]	6825	[7826, 1820]
757	[1428, 1429]	2780	[3607, 4563]	4803	[601, 6648]	6826	[7827, 620]
758	[1430, 1431]	2781	[4002, 3806]	4804	[2893, 6641]	6827	[6401, 5154]
759	[1432, 1433]	2782	[4564, 1620]	4805	[2812, 5578]	6828	[6162, 7828]
760	[1434, 1435]	2783	[3725, 4565]	4806	[5616, 6649]	6829	[7829, 5730]
761	[1436, 1437]	2784	[4566, 3111]	4807	[5145, 6650]	6830	[2918, 5109]
762	[1438, 1439]	2785	[4167, 4567]	4808	[6651, 5956]	6831	[7830, 2846]
763	[1440, 1441]	2786	[4568, 3179]	4809	[5848, 6652]	6832	[7781, 5945]
764	[1442, 278]	2787	[4569, 4570]	4810	[6653, 6654]	6833	[6387, 7831]
765	[1443, 1444]	2788	[3323, 4571]	4811	[2297, 6171]	6834	[6221, 6584]
766	[1445, 1446]	2789	[4572, 4573]	4812	[2452, 6655]	6835	[7832, 7833]
767	[1447, 1448]	2790	[4574, 3219]	4813	[6549, 643]	6836	[753, 2433]
768	[1449, 1450]	2791	[4575, 1178]	4814	[5357, 774]	6837	[5609, 6601]
769	[1451, 1452]	2792	[4576, 4577]	4815	[6605, 5187]	6838	[7834, 6432]
770	[1239, 1453]	2793	[88, 4578]	4816	[6656, 540]	6839	[5955, 5938]
771	[1454, 1455]	2794	[4579, 4580]	4817	[902, 6657]	6840	[5507, 7835]
772	[1456, 1457]	2795	[1294, 4581]	4818	[6658, 6659]	6841	[2919, 7836]
773	[1458, 1331]	2796	[4582, 3709]	4819	[615, 6100]	6842	[5998, 5521]
774	[106, 1459]	2797	[24, 4583]	4820	[6660, 4986]	6843	[5783, 2754]
775	[1460, 1461]	2798	[4584, 4585]	4821	[6568, 6661]	6844	[5135, 5233]

776	[1462, 1463]	2799	[4586, 4587]	4822	[1767, 6662]	6845	[6664, 6204]
777	[1464, 1312]	2800	[4546, 4139]	4823	[723, 6565]	6846	[7837, 2801]
778	[1465, 1466]	2801	[3706, 4588]	4824	[6663, 6664]	6847	[6642, 5148]
779	[1467, 1468]	2802	[4589, 4590]	4825	[6665, 6666]	6848	[6095, 5729]
780	[1469, 1470]	2803	[4591, 4592]	4826	[6667, 6536]	6849	[4904, 5320]
781	[1471, 1472]	2804	[445, 4493]	4827	[6535, 6668]	6850	[7838, 2068]
782	[1473, 1474]	2805	[4593, 4594]	4828	[6669, 5369]	6851	[7839, 6471]
783	[1475, 1476]	2806	[3957, 4595]	4829	[6027, 6670]	6852	[5928, 7840]
784	[1477, 1478]	2807	[4517, 3563]	4830	[5743, 6176]	6853	[6539, 5216]
785	[1479, 1480]	2808	[4596, 3398]	4831	[6671, 5751]	6854	[7841, 7842]
786	[1481, 1482]	2809	[4597, 4598]	4832	[4956, 2771]	6855	[7843, 7785]
787	[1483, 1484]	2810	[4599, 4600]	4833	[6276, 5165]	6856	[4944, 2765]
788	[1485, 1486]	2811	[4601, 4602]	4834	[5484, 1950]	6857	[7844, 5715]
789	[1487, 1488]	2812	[1609, 1126]	4835	[6672, 5183]	6858	[7845, 5716]
790	[1489, 1490]	2813	[4603, 3699]	4836	[6673, 6674]	6859	[2423, 578]
791	[1491, 1492]	2814	[3516, 3985]	4837	[900, 718]	6860	[2425, 7846]
792	[1493, 1494]	2815	[327, 3477]	4838	[5702, 6675]	6861	[5825, 2682]
793	[1495, 1496]	2816	[4604, 4605]	4839	[2958, 5920]	6862	[7847, 7848]
794	[1497, 1401]	2817	[4606, 4607]	4840	[5787, 764]	6863	[2439, 6192]
795	[1498, 1499]	2818	[1202, 4608]	4841	[5747, 6334]	6864	[7849, 5447]
796	[1500, 1501]	2819	[1605, 4609]	4842	[6618, 538]	6865	[2368, 7850]
797	[1502, 1503]	2820	[4610, 4611]	4843	[6676, 6677]	6866	[4891, 7851]
798	[1504, 942]	2821	[4282, 4612]	4844	[2883, 5668]	6867	[5412, 4957]
799	[1505, 360]	2822	[4613, 4614]	4845	[2732, 2209]	6868	[2969, 2933]
800	[1506, 973]	2823	[3305, 4404]	4846	[6357, 6678]	6869	[2619, 6018]
801	[1507, 1508]	2824	[4615, 4616]	4847	[5988, 5540]	6870	[6309, 778]
802	[1509, 1510]	2825	[3471, 3425]	4848	[2196, 2219]	6871	[5757, 7852]
803	[1511, 1512]	2826	[1727, 4617]	4849	[6679, 2803]	6872	[5844, 8]
804	[1513, 1514]	2827	[4618, 4619]	4850	[5767, 6680]	6873	[6293, 6177]
805	[1515, 1516]	2828	[4620, 1393]	4851	[6369, 6637]	6874	[6316, 6295]
806	[1517, 1518]	2829	[3869, 3350]	4852	[5592, 6681]	6875	[5803, 5906]
807	[1519, 1520]	2830	[1286, 4621]	4853	[5318, 2778]	6876	[5236, 7853]
808	[1521, 1462]	2831	[4133, 4622]	4854	[6460, 2775]	6877	[7854, 7855]
809	[1448, 1522]	2832	[1621, 4623]	4855	[6682, 6683]	6878	[2342, 6113]
810	[1523, 1524]	2833	[4624, 4076]	4856	[6305, 651]	6879	[5461, 7856]
811	[1525, 1526]	2834	[3418, 4625]	4857	[6684, 5053]	6880	[7857, 6289]
812	[1527, 1528]	2835	[4626, 3814]	4858	[6685, 5937]	6881	[6399, 7858]
813	[1529, 1391]	2836	[459, 4392]	4859	[6407, 2701]	6882	[5598, 7859]
814	[1530, 1309]	2837	[4627, 3068]	4860	[2441, 5822]	6883	[5509, 1865]
815	[1531, 1532]	2838	[4628, 4629]	4861	[6122, 2744]	6884	[5335, 2272]
816	[1533, 1534]	2839	[4630, 4631]	4862	[6686, 6115]	6885	[6105, 5657]
817	[1535, 1536]	2840	[4632, 4633]	4863	[5082, 174]	6886	[5099, 5129]
818	[1537, 1538]	2841	[4112, 4634]	4864	[700, 6687]	6887	[7860, 7861]
819	[1539, 1540]	2842	[4635, 4636]	4865	[6023, 6078]	6888	[7862, 7863]

820	[1541, 1542]	2843	[4198, 4637]	4866	[2793, 6296]	6889	[7804, 5784]
821	[1543, 1544]	2844	[1288, 4638]	4867	[2472, 6658]	6890	[6464, 2715]
822	[1545, 1546]	2845	[4639, 4087]	4868	[4945, 6688]	6891	[2348, 7864]
823	[1547, 1548]	2846	[4208, 4640]	4869	[5830, 6689]	6892	[1915, 7865]
824	[1549, 1550]	2847	[4641, 4642]	4870	[2122, 2571]	6893	[7866, 2847]
825	[1551, 1552]	2848	[4643, 4644]	4871	[2777, 6360]	6894	[5205, 6578]
826	[6, 1553]	2849	[4645, 1305]	4872	[6681, 2]	6895	[5339, 5332]
827	[1554, 1555]	2850	[4646, 4178]	4873	[6690, 3675]	6896	[7867, 6043]
828	[1556, 1557]	2851	[4647, 1083]	4874	[6691, 1293]	6897	[2115, 7868]
829	[1558, 1559]	2852	[4648, 4649]	4875	[4605, 6692]	6898	[5541, 7869]
830	[1560, 1561]	2853	[3100, 4650]	4876	[4748, 4453]	6899	[7870, 5799]
831	[1562, 1563]	2854	[4651, 4652]	4877	[6693, 6694]	6900	[7871, 5228]
832	[1564, 1565]	2855	[4653, 3139]	4878	[6695, 71]	6901	[5178, 6119]
833	[1566, 1567]	2856	[4654, 4655]	4879	[6696, 4048]	6902	[549, 7872]
834	[1568, 1569]	2857	[3940, 4656]	4880	[4697, 6697]	6903	[3024, 2044]
835	[1570, 1571]	2858	[4657, 1050]	4881	[6698, 6699]	6904	[6577, 7873]
836	[1572, 1573]	2859	[4658, 4659]	4882	[3535, 1498]	6905	[6382, 4892]
837	[1574, 1566]	2860	[4246, 4660]	4883	[1258, 6700]	6906	[7874, 1952]
838	[1284, 1575]	2861	[4661, 4662]	4884	[3334, 1724]	6907	[7875, 909]
839	[1576, 1577]	2862	[4663, 4664]	4885	[6701, 6702]	6908	[7774, 6345]
840	[1578, 1579]	2863	[4665, 4624]	4886	[6703, 1399]	6909	[7876, 6590]
841	[1580, 1581]	2864	[4374, 4666]	4887	[1095, 6704]	6910	[7877, 7878]
842	[1582, 1583]	2865	[4667, 4668]	4888	[989, 6705]	6911	[7879, 665]
843	[1584, 1585]	2866	[4669, 4670]	4889	[1678, 120]	6912	[7880, 5656]
844	[1586, 1587]	2867	[4671, 1058]	4890	[6706, 6707]	6913	[6265, 5259]
845	[1588, 1589]	2868	[1709, 4672]	4891	[1583, 6708]	6914	[7881, 6437]
846	[1590, 1591]	2869	[4673, 3707]	4892	[6709, 3351]	6915	[7806, 5223]
847	[1592, 292]	2870	[1412, 4674]	4893	[1251, 3384]	6916	[5317, 5827]
848	[1593, 1594]	2871	[4675, 4661]	4894	[1262, 6710]	6917	[1801, 6669]
849	[1595, 1596]	2872	[4676, 1651]	4895	[6711, 3142]	6918	[832, 2148]
850	[1589, 1597]	2873	[1245, 4677]	4896	[4548, 6712]	6919	[7882, 5573]
851	[1598, 1599]	2874	[4662, 3629]	4897	[4144, 6713]	6920	[2047, 515]
852	[1600, 1601]	2875	[4678, 4679]	4898	[6714, 1006]	6921	[6650, 2296]
853	[1602, 1603]	2876	[4680, 16]	4899	[6715, 4090]	6922	[7778, 1877]
854	[1604, 1605]	2877	[4681, 4682]	4900	[6716, 6717]	6923	[6421, 5057]
855	[1166, 256]	2878	[1110, 4683]	4901	[6718, 3515]	6924	[7883, 4900]
856	[1606, 1607]	2879	[4684, 4685]	4902	[6719, 4601]	6925	[2106, 6562]
857	[1608, 1609]	2880	[4686, 4618]	4903	[6720, 6721]	6926	[5304, 2121]
858	[1169, 1610]	2881	[4687, 3662]	4904	[6722, 6723]	6927	[2703, 4996]
859	[1611, 1612]	2882	[4424, 4688]	4905	[6724, 6725]	6928	[6649, 586]
860	[311, 1613]	2883	[4689, 386]	4906	[6726, 1537]	6929	[7884, 6144]
861	[1614, 1615]	2884	[3368, 3151]	4907	[6727, 6728]	6930	[6593, 1802]
862	[1616, 1617]	2885	[4387, 4690]	4908	[6729, 6730]	6931	[6342, 6117]
863	[1618, 1619]	2886	[1555, 4383]	4909	[6731, 3203]	6932	[7885, 3003]

864	[1620, 1621]	2887	[4598, 4691]	4910	[1222, 6732]	6933	[5706, 5607]
865	[1622, 1623]	2888	[4692, 3862]	4911	[476, 4811]	6934	[7818, 1748]
866	[1624, 1625]	2889	[4583, 4242]	4912	[6733, 21]	6935	[2020, 7838]
867	[375, 1626]	2890	[1194, 4693]	4913	[359, 6734]	6936	[5052, 6211]
868	[1627, 1628]	2891	[4694, 4695]	4914	[4590, 6735]	6937	[7886, 6596]
869	[1629, 1630]	2892	[4696, 4697]	4915	[6736, 77]	6938	[5675, 7887]
870	[1631, 1632]	2893	[4698, 3238]	4916	[4149, 6737]	6939	[1740, 5977]
871	[1633, 1634]	2894	[4699, 1530]	4917	[4467, 465]	6940	[7888, 2415]
872	[1373, 1635]	2895	[4700, 4701]	4918	[4359, 6738]	6941	[2138, 2993]
873	[1636, 1637]	2896	[4702, 4632]	4919	[1514, 1213]	6942	[5613, 2959]
874	[1638, 1639]	2897	[3292, 4703]	4920	[6739, 4146]	6943	[6643, 2845]
875	[1640, 1641]	2898	[4289, 4227]	4921	[4075, 6740]	6944	[2842, 6312]
876	[1642, 1643]	2899	[3634, 4704]	4922	[1628, 4596]	6945	[5577, 2554]
877	[1644, 1345]	2900	[4705, 4706]	4923	[6741, 6742]	6946	[5265, 7845]
878	[1645, 1347]	2901	[1249, 4707]	4924	[4382, 6743]	6947	[6587, 2676]
879	[1646, 1647]	2902	[4708, 1029]	4925	[6744, 4171]	6948	[2178, 7889]
880	[1648, 1649]	2903	[1659, 4639]	4926	[4849, 6745]	6949	[2339, 5522]
881	[1492, 1650]	2904	[4709, 4710]	4927	[6746, 6747]	6950	[6683, 7890]
882	[1651, 1652]	2905	[4711, 4712]	4928	[6748, 288]	6951	[2802, 5293]
883	[1653, 1654]	2906	[1410, 4148]	4929	[4534, 6749]	6952	[2282, 2136]
884	[1655, 1656]	2907	[4573, 4331]	4930	[6750, 4669]	6953	[7891, 7892]
885	[1657, 1395]	2908	[4713, 4714]	4931	[3588, 3941]	6954	[5114, 6259]
886	[1658, 1329]	2909	[4715, 4200]	4932	[6751, 6752]	6955	[735, 2285]
887	[1431, 1659]	2910	[4716, 4038]	4933	[6753, 3324]	6956	[6518, 7893]
888	[1660, 1661]	2911	[3468, 374]	4934	[6754, 6755]	6957	[4993, 5181]
889	[1662, 1663]	2912	[3433, 4717]	4935	[1292, 6756]	6958	[5640, 5406]
890	[1664, 1665]	2913	[3712, 4430]	4936	[4233, 6757]	6959	[6058, 6653]
891	[1666, 1667]	2914	[4104, 4718]	4937	[1426, 6758]	6960	[2222, 6317]
892	[1668, 1669]	2915	[4719, 4197]	4938	[4799, 6759]	6961	[7894, 2641]
893	[1670, 1671]	2916	[3331, 3585]	4939	[6760, 1481]	6962	[6337, 6308]
894	[1672, 1673]	2917	[4720, 4721]	4940	[3251, 302]	6963	[7895, 6671]
895	[1674, 1675]	2918	[4722, 4723]	4941	[6761, 3355]	6964	[609, 5944]
896	[1676, 328]	2919	[1671, 4724]	4942	[6762, 1339]	6965	[2204, 2547]
897	[1677, 1678]	2920	[1354, 4725]	4943	[6763, 4740]	6966	[7805, 5665]
898	[1679, 1047]	2921	[3946, 4726]	4944	[6764, 4544]	6967	[2218, 6247]
899	[1680, 1353]	2922	[4727, 4728]	4945	[6765, 6766]	6968	[5985, 7839]
900	[1681, 1682]	2923	[3066, 433]	4946	[1381, 4314]	6969	[218, 2130]
901	[1683, 1684]	2924	[4729, 3390]	4947	[6767, 4221]	6970	[5203, 6430]
902	[1685, 1686]	2925	[299, 4730]	4948	[6768, 3845]	6971	[7896, 7897]
903	[1687, 1688]	2926	[4217, 4731]	4949	[1196, 1638]	6972	[2610, 7841]
904	[1689, 1690]	2927	[3887, 4732]	4950	[6769, 6770]	6973	[2738, 6135]
905	[1691, 1692]	2928	[4733, 4675]	4951	[6771, 6772]	6974	[6607, 5581]
906	[1693, 1694]	2929	[4734, 4735]	4952	[4432, 6771]	6975	[6431, 6463]
907	[1695, 1696]	2930	[4736, 4156]	4953	[3509, 6773]	6976	[5252, 6173]

908	[1697, 83]	2931	[1626, 4737]	4954	[3815, 6774]	6977	[7819, 7898]
909	[1136, 978]	2932	[4738, 1509]	4955	[6775, 6776]	6978	[5141, 7791]
910	[1698, 1699]	2933	[4113, 3308]	4956	[3863, 3826]	6979	[6448, 556]
911	[1700, 1701]	2934	[1212, 4739]	4957	[6777, 1479]	6980	[1944, 6545]
912	[1702, 1703]	2935	[4740, 3530]	4958	[6778, 6779]	6981	[2546, 5892]
913	[1704, 1705]	2936	[4741, 4742]	4959	[6780, 6781]	6982	[2400, 6551]
914	[1706, 1707]	2937	[4743, 4686]	4960	[1553, 6782]	6983	[5960, 7899]
915	[1708, 1709]	2938	[4744, 4745]	4961	[3973, 392]	6984	[6223, 5630]
916	[1710, 1711]	2939	[4746, 4318]	4962	[3821, 1039]	6985	[621, 786]
917	[1712, 1713]	2940	[4747, 4748]	4963	[4551, 4802]	6986	[7878, 6346]
918	[1714, 1205]	2941	[1723, 4749]	4964	[107, 6783]	6987	[5437, 6645]
919	[1715, 1716]	2942	[1725, 4750]	4965	[109, 6784]	6988	[6131, 6260]
920	[1717, 1718]	2943	[4105, 3980]	4966	[6785, 3312]	6989	[2286, 6475]
921	[1719, 1720]	2944	[4751, 4752]	4967	[3626, 3874]	6990	[7900, 7901]
922	[1721, 1314]	2945	[1617, 4753]	4968	[4319, 934]	6991	[6128, 7870]
923	[1722, 1723]	2946	[111, 1640]	4969	[1038, 1185]	6992	[6556, 5289]
924	[1724, 1725]	2947	[4754, 1384]	4970	[6786, 6787]	6993	[6636, 1985]
925	[1726, 1727]	2948	[4755, 4528]	4971	[6773, 3578]	6994	[7902, 5688]
926	[1728, 1729]	2949	[4756, 4757]	4972	[6788, 3898]	6995	[2900, 6136]
927	[981, 1730]	2950	[4758, 4080]	4973	[3435, 3755]	6996	[46, 5168]
928	[1731, 1732]	2951	[3737, 4473]	4974	[1163, 6789]	6997	[6380, 6663]
929	[1733, 1734]	2952	[4759, 4760]	4975	[3860, 6790]	6998	[7903, 6033]
930	[1735, 1736]	2953	[3282, 4761]	4976	[6791, 6724]	6999	[6505, 7904]
931	[1737, 1738]	2954	[4533, 4762]	4977	[6792, 1274]	7000	[6670, 5877]
932	[1739, 1740]	2955	[4763, 4764]	4978	[6793, 6794]	7001	[1779, 1939]
933	[204, 1741]	2956	[4270, 4074]	4979	[3617, 4172]	7002	[7905, 7906]
934	[1742, 1743]	2957	[4765, 4766]	4980	[3469, 6795]	7003	[7907, 7908]
935	[1744, 1745]	2958	[4024, 4767]	4981	[3302, 6796]	7004	[7909, 5639]
936	[1746, 1747]	2959	[1599, 4768]	4982	[6797, 6798]	7005	[6689, 645]
937	[1748, 1749]	2960	[4769, 3999]	4983	[6799, 6800]	7006	[545, 7910]
938	[577, 1750]	2961	[4228, 4647]	4984	[6801, 4809]	7007	[5020, 6640]
939	[1751, 1752]	2962	[4770, 1380]	4985	[6802, 6803]	7008	[1749, 6676]
940	[1753, 1754]	2963	[4771, 4772]	4986	[6804, 364]	7009	[6540, 835]
941	[1755, 1756]	2964	[1587, 1721]	4987	[1101, 4804]	7010	[7911, 7912]
942	[1757, 1758]	2965	[4773, 4774]	4988	[82, 6805]	7011	[6172, 1873]
943	[1759, 1760]	2966	[3512, 4775]	4989	[6806, 3105]	7012	[2677, 497]
944	[904, 1761]	2967	[4776, 4727]	4990	[6807, 290]	7013	[2446, 2177]
945	[1762, 1763]	2968	[4777, 4778]	4991	[6808, 4035]	7014	[2227, 7913]
946	[1764, 1765]	2969	[4779, 4780]	4992	[3655, 6809]	7015	[5885, 5255]
947	[1766, 1767]	2970	[1061, 3473]	4993	[6810, 6811]	7016	[7914, 5514]
948	[1768, 1766]	2971	[4781, 4541]	4994	[6812, 6813]	7017	[7915, 6393]
949	[1769, 1770]	2972	[4782, 4232]	4995	[6814, 69]	7018	[926, 2598]
950	[1771, 871]	2973	[4600, 1199]	4996	[119, 6815]	7019	[6145, 7860]
951	[1772, 1773]	2974	[4783, 4490]	4997	[6816, 81]	7020	[5771, 3054]

952	[1774, 1775]	2975	[3321, 4784]	4998	[6817, 6818]	7021	[7916, 3057]
953	[1776, 1777]	2976	[4181, 4377]	4999	[3726, 6819]	7022	[2356, 3051]
954	[1778, 1779]	2977	[4785, 3616]	5000	[6820, 6821]	7023	[248, 2100]
955	[1780, 1781]	2978	[1122, 3129]	5001	[4555, 4247]	7024	[7783, 5429]
956	[1782, 1783]	2979	[4786, 4206]	5002	[3944, 4184]	7025	[2797, 2477]
957	[573, 1784]	2980	[4787, 4788]	5003	[3920, 3795]	7026	[5763, 7917]
958	[589, 1785]	2981	[1542, 4789]	5004	[3332, 6822]	7027	[2660, 5506]
959	[1786, 826]	2982	[4790, 4791]	5005	[6823, 1304]	7028	[6356, 6087]
960	[1787, 682]	2983	[4792, 4793]	5006	[6824, 3120]	7029	[7918, 2453]
961	[1788, 1789]	2984	[4623, 4641]	5007	[6825, 1672]	7030	[5059, 5869]
962	[1790, 1791]	2985	[4794, 4795]	5008	[4062, 6826]	7031	[7919, 6684]
963	[1792, 1793]	2986	[3178, 4796]	5009	[6827, 3135]	7032	[5477, 5542]
964	[1794, 1795]	2987	[4797, 1221]	5010	[6828, 4758]	7033	[5237, 6021]
965	[1796, 1797]	2988	[4798, 4799]	5011	[3241, 1680]	7034	[6547, 6256]
966	[1798, 1799]	2989	[1032, 4800]	5012	[6795, 1113]	7035	[1951, 2567]
967	[1800, 1801]	2990	[4801, 4627]	5013	[6829, 3600]	7036	[6529, 885]
968	[1802, 794]	2991	[4802, 3995]	5014	[6830, 6831]	7037	[7920, 6544]
969	[1803, 1804]	2992	[4155, 4803]	5015	[1323, 6832]	7038	[7921, 6288]
970	[1805, 1806]	2993	[4717, 366]	5016	[6833, 6834]	7039	[5924, 5736]
971	[1807, 536]	2994	[4804, 4805]	5017	[6835, 6836]	7040	[7922, 641]
972	[1808, 590]	2995	[3630, 4806]	5018	[6837, 6838]	7041	[5805, 4992]
973	[1809, 1810]	2996	[4807, 4808]	5019	[6839, 6840]	7042	[7890, 7854]
974	[1811, 1812]	2997	[4809, 4810]	5020	[6841, 64]	7043	[5511, 6359]
975	[1813, 1814]	2998	[4811, 3146]	5021	[335, 6842]	7044	[2977, 907]
976	[1815, 1816]	2999	[3303, 4812]	5022	[4865, 4305]	7045	[2964, 921]
977	[567, 1817]	3000	[4813, 332]	5023	[4492, 6843]	7046	[6180, 7923]
978	[1818, 1819]	3001	[4814, 1335]	5024	[4585, 6844]	7047	[6391, 7924]
979	[1820, 1821]	3002	[1298, 4815]	5025	[6844, 3878]	7048	[2755, 6185]
980	[1822, 1823]	3003	[4816, 3597]	5026	[4825, 6845]	7049	[5036, 5065]
981	[1824, 1825]	3004	[4588, 4817]	5027	[6846, 6847]	7050	[6035, 7903]
982	[1826, 1827]	3005	[4818, 4819]	5028	[6848, 6849]	7051	[7925, 1994]
983	[1828, 1829]	3006	[4820, 4821]	5029	[4724, 3267]	7052	[5838, 746]
984	[1830, 1831]	3007	[1552, 4403]	5030	[1669, 4455]	7053	[7912, 6542]
985	[1832, 1833]	3008	[3431, 3817]	5031	[1053, 6850]	7054	[4982, 5350]
986	[1834, 1835]	3009	[4822, 4823]	5032	[6851, 6852]	7055	[5686, 1961]
987	[1836, 1837]	3010	[4049, 274]	5033	[6853, 4741]	7056	[6300, 844]
988	[1838, 1839]	3011	[4265, 3379]	5034	[6840, 3892]	7057	[7926, 6673]
989	[1840, 1841]	3012	[4824, 4825]	5035	[6854, 6855]	7058	[7927, 6242]
990	[1842, 1843]	3013	[3687, 3722]	5036	[1273, 6856]	7059	[5159, 5200]
991	[1844, 580]	3014	[4826, 4486]	5037	[6857, 6858]	7060	[5044, 5464]
992	[1845, 1846]	3015	[4827, 4828]	5038	[6859, 6860]	7061	[6123, 5167]
993	[846, 1847]	3016	[4829, 4830]	5039	[6861, 6862]	7062	[2488, 6462]
994	[1848, 1849]	3017	[4831, 4603]	5040	[3873, 1230]	7063	[2718, 5968]
995	[1850, 1851]	3018	[4508, 3500]	5041	[1308, 6863]	7064	[611, 7928]

996	[1852, 1853]	3019	[4832, 4833]	5042	[6813, 6864]	7065	[7924, 6154]
997	[1854, 1855]	3020	[4834, 3797]	5043	[6865, 6866]	7066	[7929, 5929]
998	[1856, 1857]	3021	[4835, 4836]	5044	[1005, 6867]	7067	[7800, 7930]
999	[1858, 1859]	3022	[4837, 4838]	5045	[6699, 6762]	7068	[2944, 7931]
1000	[1860, 1861]	3023	[4839, 3082]	5046	[6868, 6869]	7069	[7932, 6672]
1001	[1862, 1863]	3024	[4196, 4840]	5047	[6870, 1606]	7070	[6319, 2742]
1002	[1747, 1864]	3025	[4841, 4842]	5048	[6871, 6872]	7071	[6655, 2773]
1003	[1865, 1866]	3026	[3445, 4507]	5049	[4308, 6873]	7072	[2018, 5808]
1004	[1867, 1868]	3027	[4843, 4143]	5050	[6874, 4329]	7073	[811, 7933]
1005	[1869, 1870]	3028	[4844, 1712]	5051	[6875, 6876]	7074	[7923, 6638]
1006	[1871, 1872]	3029	[4845, 4846]	5052	[939, 6877]	7075	[5696, 4877]
1007	[1873, 1874]	3030	[1508, 4027]	5053	[6878, 4862]	7076	[5399, 2848]
1008	[1875, 1876]	3031	[3069, 3979]	5054	[6879, 3289]	7077	[2212, 5597]
1009	[1877, 823]	3032	[4399, 4847]	5055	[271, 6880]	7078	[6687, 5037]
1010	[1878, 1879]	3033	[4848, 4699]	5056	[6881, 4394]	7079	[7934, 5923]
1011	[1880, 1881]	3034	[3161, 4849]	5057	[6882, 1372]	7080	[6422, 7926]
1012	[1882, 1883]	3035	[4850, 1451]	5058	[3756, 6883]	7081	[5836, 1898]
1013	[692, 1884]	3036	[4851, 4852]	5059	[6884, 4381]	7082	[7820, 7935]
1014	[1885, 1886]	3037	[4611, 4853]	5060	[6885, 6886]	7083	[2081, 5634]
1015	[1887, 1888]	3038	[4854, 1539]	5061	[6887, 6888]	7084	[5958, 6232]
1016	[1889, 1890]	3039	[4855, 4856]	5062	[6779, 6889]	7085	[6558, 7827]
1017	[1891, 1892]	3040	[4857, 4858]	5063	[6781, 3538]	7086	[2187, 7826]
1018	[1893, 1894]	3041	[4859, 3736]	5064	[3638, 4140]	7087	[5973, 7936]
1019	[1895, 734]	3042	[4860, 1070]	5065	[6890, 4264]	7088	[2574, 5880]
1020	[1896, 1897]	3043	[4861, 4108]	5066	[6891, 6892]	7089	[7937, 7905]
1021	[1898, 1899]	3044	[4862, 4111]	5067	[6893, 6894]	7090	[2412, 5913]
1022	[1900, 1901]	3045	[3202, 4863]	5068	[3692, 6895]	7091	[7861, 5214]
1023	[1902, 1903]	3046	[1021, 402]	5069	[6896, 6897]	7092	[157, 2707]
1024	[244, 1904]	3047	[419, 3084]	5070	[3700, 6898]	7093	[6049, 2661]
1025	[1905, 1906]	3048	[363, 4864]	5071	[6899, 6900]	7094	[7938, 7832]
1026	[922, 1907]	3049	[1705, 3971]	5072	[4488, 4485]	7095	[5410, 2880]
1027	[1908, 1909]	3050	[4707, 1149]	5073	[6901, 6902]	7096	[2013, 7939]
1028	[1910, 1911]	3051	[3239, 4579]	5074	[6883, 6903]	7097	[6456, 7921]
1029	[1912, 1913]	3052	[4017, 4865]	5075	[1260, 6904]	7098	[5192, 6534]
1030	[1914, 1915]	3053	[4866, 4867]	5076	[3978, 963]	7099	[6523, 5083]
1031	[1916, 1917]	3054	[4054, 4868]	5077	[4796, 1117]	7100	[7793, 5515]
1032	[1918, 649]	3055	[4869, 4174]	5078	[6905, 4792]	7101	[6484, 632]
1033	[1919, 1920]	3056	[3596, 4870]	5079	[6906, 4657]	7102	[5018, 245]
1034	[1921, 1922]	3057	[4026, 3555]	5080	[6907, 6908]	7103	[5313, 1945]
1035	[1923, 1924]	3058	[4871, 4872]	5081	[6774, 342]	7104	[6272, 7940]
1036	[1925, 1926]	3059	[4873, 2844]	5082	[1619, 4045]	7105	[2292, 7941]
1037	[1927, 1928]	3060	[2856, 2650]	5083	[6909, 3099]	7106	[7940, 5079]
1038	[1929, 1930]	3061	[818, 4874]	5084	[4157, 6910]	7107	[5147, 7798]
1039	[1931, 1932]	3062	[4875, 4876]	5085	[3297, 3293]	7108	[6476, 7942]

1040	[1933, 1934]	3063	[4877, 4878]	5086	[3715, 4297]	7109	[5987, 5738]
1041	[1935, 1936]	3064	[210, 4879]	5087	[6911, 6912]	7110	[6019, 2556]
1042	[1937, 1938]	3065	[4880, 4881]	5088	[3315, 6913]	7111	[7943, 5113]
1043	[1939, 1940]	3066	[4882, 837]	5089	[6914, 6915]	7112	[2685, 7944]
1044	[1941, 1942]	3067	[4883, 4884]	5090	[6738, 3388]	7113	[5156, 2855]
1045	[1943, 1944]	3068	[4885, 4886]	5091	[6916, 6917]	7114	[6251, 6647]
1046	[1945, 1946]	3069	[4887, 225]	5092	[4213, 6918]	7115	[6159, 2381]
1047	[1947, 1948]	3070	[4888, 4889]	5093	[6919, 6920]	7116	[2034, 5995]
1048	[1949, 1778]	3071	[4890, 4891]	5094	[6902, 4116]	7117	[7945, 2534]
1049	[1950, 1951]	3072	[4892, 4893]	5095	[1075, 1460]	7118	[7946, 5090]
1050	[1952, 1953]	3073	[4894, 1838]	5096	[1144, 4160]	7119	[2459, 4916]
1051	[825, 1954]	3074	[4895, 4896]	5097	[4808, 6921]	7120	[2909, 7945]
1052	[1955, 1956]	3075	[4897, 2166]	5098	[6922, 1008]	7121	[6000, 7947]
1053	[1957, 1958]	3076	[4898, 4899]	5099	[3208, 4408]	7122	[6248, 5158]
1054	[1959, 1960]	3077	[2743, 2088]	5100	[6923, 6924]	7123	[7859, 6001]
1055	[1961, 1962]	3078	[4900, 2648]	5101	[3982, 462]	7124	[4960, 7876]
1056	[1963, 1964]	3079	[4901, 4902]	5102	[3994, 6925]	7125	[7944, 6365]
1057	[1965, 1966]	3080	[184, 4903]	5103	[1099, 6926]	7126	[7948, 7875]
1058	[1967, 1968]	3081	[2788, 4904]	5104	[4304, 1358]	7127	[7949, 2071]
1059	[1969, 1815]	3082	[4905, 4906]	5105	[417, 6763]	7128	[5427, 7950]
1060	[1970, 1971]	3083	[4907, 4908]	5106	[6927, 3666]	7129	[6619, 2349]
1061	[727, 1972]	3084	[4909, 1822]	5107	[6928, 3553]	7130	[7951, 7952]
1062	[721, 1973]	3085	[4910, 4911]	5108	[6929, 4843]	7131	[5298, 2406]
1063	[1974, 1975]	3086	[4912, 4913]	5109	[4721, 6930]	7132	[5454, 5566]
1064	[1976, 1977]	3087	[4914, 4915]	5110	[6931, 6932]	7133	[6377, 3036]
1065	[1978, 1979]	3088	[4916, 1836]	5111	[6933, 3903]	7134	[7953, 2146]
1066	[1980, 1981]	3089	[4917, 4918]	5112	[6934, 4519]	7135	[7954, 7955]
1067	[1982, 1983]	3090	[2504, 2997]	5113	[4152, 6935]	7136	[6384, 1963]
1068	[1984, 511]	3091	[4919, 4920]	5114	[6936, 6937]	7137	[7956, 2383]
1069	[1985, 1986]	3092	[4921, 4922]	5115	[6938, 4041]	7138	[1793, 2387]
1070	[1987, 1988]	3093	[4923, 4924]	5116	[6939, 4779]	7139	[5319, 7957]
1071	[1989, 1990]	3094	[4925, 4926]	5117	[4543, 3061]	7140	[7935, 5837]
1072	[1991, 1992]	3095	[3034, 4925]	5118	[6940, 1584]	7141	[7958, 7959]
1073	[891, 1993]	3096	[4927, 4928]	5119	[4793, 6941]	7142	[4959, 5062]
1074	[1994, 1995]	3097	[4929, 4930]	5120	[6942, 3642]	7143	[5027, 5967]
1075	[1996, 616]	3098	[646, 4931]	5121	[979, 3939]	7144	[7960, 5347]
1076	[1997, 1998]	3099	[4932, 4933]	5122	[3370, 6943]	7145	[7865, 7808]
1077	[1981, 1999]	3100	[4934, 4935]	5123	[1585, 6944]	7146	[5745, 1947]
1078	[2, 1786]	3101	[4936, 4937]	5124	[6945, 6946]	7147	[7815, 552]
1079	[1995, 1787]	3102	[2587, 4938]	5125	[3683, 6947]	7148	[5632, 6220]
1080	[2000, 2001]	3103	[4939, 2424]	5126	[970, 3153]	7149	[6353, 2545]
1081	[2002, 2003]	3104	[4940, 784]	5127	[4101, 6948]	7150	[2451, 7844]
1082	[2004, 1751]	3105	[4941, 4942]	5128	[6949, 4494]	7151	[6352, 6085]
1083	[2005, 564]	3106	[4943, 4944]	5129	[1470, 6861]	7152	[5823, 6396]

1084	[2006, 2007]	3107	[2894, 4945]	5130	[6950, 6951]	7153	[6097, 6603]
1085	[2008, 2009]	3108	[4946, 4947]	5131	[6952, 6953]	7154	[5372, 7961]
1086	[2010, 2011]	3109	[4948, 4949]	5132	[3640, 1477]	7155	[5487, 6613]
1087	[2012, 2013]	3110	[4950, 4951]	5133	[6818, 6954]	7156	[2898, 6111]
1088	[2014, 241]	3111	[4952, 4950]	5134	[6955, 1238]	7157	[5899, 7962]
1089	[2015, 2016]	3112	[4953, 2844]	5135	[1701, 4564]	7158	[5821, 4909]
1090	[2017, 2018]	3113	[177, 4954]	5136	[3670, 3836]	7159	[6088, 7849]
1091	[2019, 2020]	3114	[4955, 4956]	5137	[393, 6956]	7160	[7963, 2697]
1092	[2021, 2022]	3115	[4957, 152]	5138	[6957, 4341]	7161	[7853, 550]
1093	[2023, 2024]	3116	[741, 1970]	5139	[6958, 1322]	7162	[5196, 5964]
1094	[2025, 2026]	3117	[4958, 4959]	5140	[4823, 6959]	7163	[5088, 6329]
1095	[2027, 2028]	3118	[56, 4960]	5141	[4515, 6960]	7164	[524, 1984]
1096	[1839, 2029]	3119	[4961, 4962]	5142	[6961, 3362]	7165	[5063, 2025]
1097	[2030, 705]	3120	[4963, 3040]	5143	[6962, 6963]	7166	[6433, 6374]
1098	[2031, 2032]	3121	[4964, 4965]	5144	[1422, 6750]	7167	[6510, 7964]
1099	[2033, 2034]	3122	[2499, 4966]	5145	[6964, 3933]	7168	[7965, 5473]
1100	[2035, 2036]	3123	[4967, 4968]	5146	[6965, 6792]	7169	[6186, 2728]
1101	[2037, 2038]	3124	[4969, 4970]	5147	[6966, 3495]	7170	[2351, 2953]
1102	[2039, 2040]	3125	[4971, 4972]	5148	[6967, 4497]	7171	[7966, 748]
1103	[175, 2041]	3126	[4973, 4974]	5149	[4268, 6968]	7172	[5644, 5992]
1104	[2042, 2043]	3127	[4975, 4976]	5150	[453, 3676]	7173	[658, 7943]
1105	[2044, 2045]	3128	[2388, 4977]	5151	[4830, 4180]	7174	[5614, 6069]
1106	[2046, 2047]	3129	[2770, 4978]	5152	[4688, 1049]	7175	[7852, 7888]
1107	[1901, 2048]	3130	[2076, 4979]	5153	[6784, 6969]	7176	[6575, 2192]
1108	[2049, 2050]	3131	[4980, 4981]	5154	[6970, 1515]	7177	[7967, 7862]
1109	[2051, 2052]	3132	[2275, 4982]	5155	[4670, 3236]	7178	[2497, 2674]
1110	[2053, 2054]	3133	[4983, 2181]	5156	[3658, 6971]	7179	[1928, 6452]
1111	[2055, 2056]	3134	[4984, 2448]	5157	[6972, 6973]	7180	[7968, 5648]
1112	[2057, 2058]	3135	[4985, 2150]	5158	[6974, 4334]	7181	[5647, 5107]
1113	[2059, 2060]	3136	[4986, 4987]	5159	[6975, 266]	7182	[7864, 5772]
1114	[2061, 1902]	3137	[4988, 4989]	5160	[6976, 3316]	7183	[7969, 7880]
1115	[2062, 2063]	3138	[4990, 2949]	5161	[6977, 4457]	7184	[7970, 5898]
1116	[2064, 2065]	3139	[4991, 2367]	5162	[6978, 6746]	7185	[5366, 7971]
1117	[2066, 2067]	3140	[2022, 754]	5163	[6979, 6748]	7186	[1940, 6045]
1118	[2068, 2069]	3141	[2078, 584]	5164	[4030, 1295]	7187	[6109, 7972]
1119	[2070, 901]	3142	[4992, 4993]	5165	[6980, 6981]	7188	[2834, 6386]
1120	[2071, 2072]	3143	[4994, 4995]	5166	[6982, 4860]	7189	[7840, 5782]
1121	[2073, 2074]	3144	[4996, 4997]	5167	[6983, 6931]	7190	[7973, 860]
1122	[2075, 2076]	3145	[4998, 4999]	5168	[4701, 3608]	7191	[1847, 5069]
1123	[2077, 2078]	3146	[5000, 5001]	5169	[94, 6744]	7192	[2599, 701]
1124	[2079, 830]	3147	[5002, 1776]	5170	[6984, 6942]	7193	[7784, 2992]
1125	[2080, 2081]	3148	[5003, 2194]	5171	[1301, 4193]	7194	[2786, 6320]
1126	[2082, 2083]	3149	[5004, 5005]	5172	[6985, 6986]	7195	[5068, 6277]
1127	[2084, 2085]	3150	[2945, 5006]	5173	[6987, 3240]	7196	[192, 606]

1128	[2086, 2087]	3151	[5007, 5008]	5174	[1084, 6988]	7197	[6222, 6183]
1129	[2088, 2089]	3152	[5009, 5010]	5175	[6969, 3686]	7198	[5046, 6160]
1130	[2090, 2091]	3153	[2632, 5011]	5176	[6766, 4063]	7199	[5280, 5536]
1131	[2092, 2093]	3154	[1806, 1976]	5177	[6989, 6990]	7200	[139, 6506]
1132	[2094, 2095]	3155	[5012, 5013]	5178	[6991, 6992]	7201	[7974, 4898]
1133	[2096, 146]	3156	[5014, 5015]	5179	[4788, 6993]	7202	[5232, 6465]
1134	[1797, 2097]	3157	[5016, 4907]	5180	[6994, 3695]	7203	[5622, 5208]
1135	[2098, 2099]	3158	[5017, 5018]	5181	[6809, 1653]	7204	[7846, 5127]
1136	[2100, 2101]	3159	[5019, 5020]	5182	[6811, 4120]	7205	[7801, 5281]
1137	[2102, 1927]	3160	[5021, 5022]	5183	[3479, 3776]	7206	[5264, 7975]
1138	[2103, 2104]	3161	[5023, 5024]	5184	[6995, 4135]	7207	[6155, 2917]
1139	[2105, 2106]	3162	[5025, 2142]	5185	[4833, 3260]	7208	[499, 4912]
1140	[841, 2107]	3163	[5026, 5027]	5186	[6996, 3262]	7209	[7976, 6427]
1141	[2108, 2109]	3164	[5028, 5029]	5187	[291, 4822]	7210	[5678, 5177]
1142	[2110, 2111]	3165	[893, 5030]	5188	[6920, 6997]	7211	[1962, 7977]
1143	[2112, 2113]	3166	[5031, 5032]	5189	[6998, 6999]	7212	[7901, 7978]
1144	[2114, 2115]	3167	[5033, 2783]	5190	[7000, 4746]	7213	[6082, 6306]
1145	[2116, 2117]	3168	[5034, 5035]	5191	[7001, 3669]	7214	[2182, 2456]
1146	[2118, 2119]	3169	[2957, 5036]	5192	[3586, 7002]	7215	[2549, 911]
1147	[2120, 2035]	3170	[5037, 5038]	5193	[1480, 1098]	7216	[2849, 7779]
1148	[2121, 2122]	3171	[5039, 4952]	5194	[1690, 4851]	7217	[5676, 5081]
1149	[2123, 2124]	3172	[5040, 494]	5195	[7003, 7004]	7218	[5917, 5524]
1150	[2125, 2126]	3173	[2991, 2127]	5196	[968, 3589]	7219	[7979, 899]
1151	[2127, 2128]	3174	[5041, 5042]	5197	[7005, 4385]	7220	[5610, 5817]
1152	[1932, 2129]	3175	[1843, 5043]	5198	[3779, 7006]	7221	[5811, 2665]
1153	[2130, 2131]	3176	[2739, 5044]	5199	[4778, 7007]	7222	[4913, 634]
1154	[2132, 2133]	3177	[5045, 5046]	5200	[7008, 7009]	7223	[5201, 6070]
1155	[2134, 2135]	3178	[5047, 5048]	5201	[3747, 7010]	7224	[5671, 5041]
1156	[2136, 2137]	3179	[5049, 5050]	5202	[6803, 7011]	7225	[2544, 7980]
1157	[1874, 2138]	3180	[5051, 5052]	5203	[4088, 3232]	7226	[627, 7981]
1158	[159, 2139]	3181	[5053, 5054]	5204	[7012, 3899]	7227	[7977, 6616]
1159	[2140, 2141]	3182	[5055, 5056]	5205	[1336, 7013]	7228	[7978, 6682]
1160	[2142, 2143]	3183	[5057, 5058]	5206	[6728, 1681]	7229	[6599, 7773]
1161	[2144, 2145]	3184	[2168, 5059]	5207	[3914, 7014]	7230	[7961, 2252]
1162	[2146, 2147]	3185	[5060, 5061]	5208	[7015, 3326]	7231	[2432, 716]
1163	[2148, 2149]	3186	[5062, 5063]	5209	[3723, 4781]	7232	[5963, 2659]
1164	[2150, 2151]	3187	[4942, 626]	5210	[7016, 7017]	7233	[5832, 6090]
1165	[2152, 2153]	3188	[2681, 5064]	5211	[7018, 1430]	7234	[1799, 6457]
1166	[2154, 2155]	3189	[5065, 3032]	5212	[6850, 6846]	7235	[587, 6548]
1167	[2156, 2157]	3190	[2781, 5066]	5213	[7019, 6989]	7236	[654, 6567]
1168	[2158, 2159]	3191	[5067, 2263]	5214	[7020, 1735]	7237	[2335, 6501]
1169	[2160, 2161]	3192	[2791, 2878]	5215	[7021, 1737]	7238	[236, 2990]
1170	[2162, 2163]	3193	[2469, 5068]	5216	[7022, 1733]	7239	[2762, 6574]
1171	[2164, 2165]	3194	[5069, 5070]	5217	[4745, 6974]	7240	[5959, 2221]

1172	[2166, 2167]	3195	[5071, 5072]	5218	[7023, 1135]	7241	[2862, 2874]
1173	[1804, 2168]	3196	[843, 5073]	5219	[7024, 7025]	7242	[6623, 6198]
1174	[1866, 2169]	3197	[5074, 5075]	5220	[7026, 7027]	7243	[6513, 1860]
1175	[2170, 2171]	3198	[5076, 2180]	5221	[7028, 4210]	7244	[7982, 6609]
1176	[2172, 1989]	3199	[5077, 5078]	5222	[3880, 7029]	7245	[2929, 2871]
1177	[2173, 2174]	3200	[5079, 5080]	5223	[3582, 7030]	7246	[2024, 4882]
1178	[2175, 2176]	3201	[5081, 5082]	5224	[7031, 7032]	7247	[7955, 5947]
1179	[2177, 2178]	3202	[5083, 2524]	5225	[6913, 7033]	7248	[5843, 5672]
1180	[2097, 2179]	3203	[5084, 752]	5226	[3854, 7034]	7249	[5288, 6338]
1181	[2180, 503]	3204	[5085, 2612]	5227	[1118, 3348]	7250	[5290, 6499]
1182	[2181, 2182]	3205	[2143, 2913]	5228	[6755, 7035]	7251	[6424, 6163]
1183	[2183, 1867]	3206	[2145, 5086]	5229	[4616, 7036]	7252	[5118, 6206]
1184	[2184, 2185]	3207	[5087, 5088]	5230	[7037, 1191]	7253	[7930, 7920]
1185	[2186, 2187]	3208	[5089, 770]	5231	[3085, 980]	7254	[10, 6644]
1186	[2188, 2189]	3209	[5090, 2838]	5232	[4315, 1283]	7255	[670, 6236]
1187	[2190, 2191]	3210	[5091, 2721]	5233	[7038, 4797]	7256	[6188, 2785]
1188	[2192, 2193]	3211	[5092, 5093]	5234	[1607, 7039]	7257	[7983, 6351]
1189	[2194, 2195]	3212	[5094, 2480]	5235	[4693, 3107]	7258	[7795, 7984]
1190	[807, 2196]	3213	[3042, 5095]	5236	[1226, 1052]	7259	[6056, 5896]
1191	[2197, 2198]	3214	[5096, 5097]	5237	[3533, 4801]	7260	[7985, 2250]
1192	[2199, 2200]	3215	[5098, 2317]	5238	[7040, 4813]	7261	[5732, 5631]
1193	[1812, 2201]	3216	[2516, 5099]	5239	[3525, 330]	7262	[7986, 862]
1194	[1827, 2202]	3217	[5100, 5101]	5240	[7041, 25]	7263	[7987, 5234]
1195	[2203, 2204]	3218	[5102, 5103]	5241	[6951, 7042]	7264	[7981, 5666]
1196	[2205, 2206]	3219	[5104, 2920]	5242	[1455, 6764]	7265	[5475, 2343]
1197	[2207, 2208]	3220	[5105, 5106]	5243	[4655, 4844]	7266	[7917, 7988]
1198	[2209, 2210]	3221	[230, 2120]	5244	[257, 4254]	7267	[6595, 2767]
1199	[2211, 2212]	3222	[5107, 5108]	5245	[4376, 3281]	7268	[7825, 1807]
1200	[2213, 2214]	3223	[5109, 5110]	5246	[3813, 1598]	7269	[6405, 5476]
1201	[2215, 2216]	3224	[5111, 5112]	5247	[4448, 7043]	7270	[5432, 6213]
1202	[2217, 2218]	3225	[5113, 5114]	5248	[7044, 1320]	7271	[6561, 7989]
1203	[2219, 2220]	3226	[5115, 5116]	5249	[102, 7045]	7272	[7990, 7911]
1204	[2221, 2222]	3227	[5117, 5118]	5250	[7046, 1533]	7273	[6361, 5926]
1205	[2223, 2224]	3228	[5119, 5120]	5251	[7047, 7048]	7274	[5807, 7960]
1206	[2225, 1771]	3229	[5121, 2961]	5252	[3601, 3575]	7275	[7770, 7937]
1207	[2226, 2227]	3230	[5122, 189]	5253	[7049, 4539]	7276	[7908, 2655]
1208	[2228, 2229]	3231	[5073, 5123]	5254	[7050, 7051]	7277	[1756, 211]
1209	[2230, 2231]	3232	[5124, 917]	5255	[3885, 7052]	7278	[7991, 5438]
1210	[2232, 2233]	3233	[5125, 5126]	5256	[7053, 1076]	7279	[7786, 7871]
1211	[2234, 2235]	3234	[2810, 2887]	5257	[1649, 7054]	7280	[226, 2303]
1212	[2236, 2237]	3235	[5127, 4934]	5258	[4780, 7055]	7281	[6512, 7992]
1213	[2238, 2239]	3236	[14, 5128]	5259	[4145, 7056]	7282	[7993, 6488]
1214	[2240, 2241]	3237	[5129, 5130]	5260	[7057, 7058]	7283	[5777, 6036]
1215	[2242, 2243]	3238	[5131, 2621]	5261	[947, 1664]	7284	[5919, 7953]

1216	[2244, 2245]	3239	[5132, 2154]	5262	[7059, 7060]	7285	[506, 7822]
1217	[2246, 2247]	3240	[5133, 5134]	5263	[7061, 6996]	7286	[2401, 7994]
1218	[2248, 2249]	3241	[1917, 5135]	5264	[70, 7062]	7287	[2337, 6055]
1219	[2250, 2251]	3242	[2117, 570]	5265	[6999, 7063]	7288	[6392, 6322]
1220	[2252, 1813]	3243	[5136, 5137]	5266	[1019, 7064]	7289	[1784, 5932]
1221	[2253, 2254]	3244	[5138, 5139]	5267	[7065, 7066]	7290	[5711, 7983]
1222	[2255, 2256]	3245	[5140, 5141]	5268	[3576, 3522]	7291	[7995, 5753]
1223	[2257, 2258]	3246	[5142, 5143]	5269	[6770, 7067]	7292	[6203, 6152]
1224	[787, 2259]	3247	[1964, 5144]	5270	[7068, 7069]	7293	[5456, 6314]
1225	[2260, 2261]	3248	[5015, 5145]	5271	[7070, 7071]	7294	[5491, 2686]
1226	[2262, 1957]	3249	[5146, 5147]	5272	[7072, 7073]	7295	[129, 127]
1227	[2263, 2264]	3250	[5148, 5149]	5273	[4211, 7074]	7296	[5689, 5104]
1228	[619, 2265]	3251	[2884, 5150]	5274	[6704, 3225]	7297	[5361, 686]
1229	[2266, 2267]	3252	[5151, 5152]	5275	[3703, 7075]	7298	[5889, 6472]
1230	[2268, 2269]	3253	[5153, 2559]	5276	[7076, 7077]	7299	[6134, 7810]
1231	[2270, 2271]	3254	[5154, 5155]	5277	[7078, 7079]	7300	[7959, 6589]
1232	[2272, 2273]	3255	[5030, 5156]	5278	[4454, 6923]	7301	[2087, 7949]
1233	[2274, 2275]	3256	[493, 5157]	5279	[7080, 4859]	7302	[502, 2653]
1234	[2276, 2277]	3257	[5158, 5159]	5280	[4638, 4501]	7303	[5758, 2750]
1235	[2278, 2226]	3258	[5160, 5161]	5281	[3266, 3357]	7304	[5761, 5329]
1236	[2279, 2280]	3259	[5162, 5163]	5282	[3823, 7081]	7305	[489, 5756]
1237	[2281, 2282]	3260	[5164, 2831]	5283	[3226, 7082]	7306	[5773, 1937]
1238	[2283, 2284]	3261	[5165, 5166]	5284	[4732, 3426]	7307	[5701, 2213]
1239	[2285, 2286]	3262	[5167, 1862]	5285	[457, 3614]	7308	[4878, 7894]
1240	[2287, 2288]	3263	[5168, 5169]	5286	[1567, 87]	7309	[5549, 7996]
1241	[2289, 2290]	3264	[2200, 5170]	5287	[6860, 7083]	7310	[6403, 1848]
1242	[2291, 2292]	3265	[5171, 5172]	5288	[7084, 7085]	7311	[7831, 6297]
1243	[2293, 2294]	3266	[5173, 1933]	5289	[7086, 7087]	7312	[816, 6264]
1244	[1890, 2295]	3267	[5110, 5174]	5290	[3206, 7088]	7313	[7984, 7979]
1245	[2296, 2297]	3268	[5175, 5176]	5291	[331, 1233]	7314	[7788, 6481]
1246	[2298, 160]	3269	[5177, 5178]	5292	[7089, 3772]	7315	[7997, 6364]
1247	[2299, 2279]	3270	[5179, 5180]	5293	[7090, 3174]	7316	[2085, 6470]
1248	[2300, 2301]	3271	[5181, 5182]	5294	[6888, 7091]	7317	[6436, 2818]
1249	[2302, 2123]	3272	[2409, 166]	5295	[7092, 7093]	7318	[5328, 6571]
1250	[2303, 720]	3273	[5183, 4983]	5296	[6821, 1560]	7319	[4947, 7902]
1251	[2304, 2305]	3274	[5184, 4984]	5297	[3346, 3594]	7320	[4911, 199]
1252	[2306, 2307]	3275	[200, 2759]	5298	[3340, 4083]	7321	[5403, 7877]
1253	[2308, 229]	3276	[5185, 5186]	5299	[7094, 6823]	7322	[6688, 5499]
1254	[2309, 2310]	3277	[5187, 5188]	5300	[4435, 7095]	7323	[2344, 892]
1255	[2311, 2312]	3278	[5189, 5190]	5301	[6877, 4106]	7324	[7998, 2695]
1256	[2313, 2314]	3279	[5191, 5192]	5302	[6997, 4532]	7325	[7999, 1796]
1257	[2315, 2316]	3280	[5193, 5194]	5303	[7096, 3209]	7326	[2258, 6543]
1258	[2317, 527]	3281	[5195, 5196]	5304	[1130, 4514]	7327	[8000, 919]
1259	[2318, 2319]	3282	[5197, 239]	5305	[7093, 7097]	7328	[8001, 6294]

1260	[2320, 2321]	3283	[3002, 3043]	5306	[7098, 7099]	7329	[8002, 2526]
1261	[2322, 2066]	3284	[5198, 5199]	5307	[7100, 3539]	7330	[2627, 8003]
1262	[222, 2323]	3285	[5200, 5201]	5308	[7101, 1217]	7331	[6197, 6533]
1263	[2324, 2325]	3286	[5202, 5203]	5309	[1730, 1105]	7332	[5969, 6621]
1264	[2326, 2327]	3287	[5204, 2966]	5310	[1538, 6733]	7333	[8004, 6286]
1265	[2328, 2329]	3288	[709, 5205]	5311	[1692, 3872]	7334	[6530, 5940]
1266	[2330, 2331]	3289	[5206, 5207]	5312	[6798, 7102]	7335	[7858, 859]
1267	[2332, 2333]	3290	[5208, 1889]	5313	[3710, 3419]	7336	[5679, 5847]
1268	[2334, 2335]	3291	[5209, 2792]	5314	[4706, 4009]	7337	[6630, 7886]
1269	[2336, 2337]	3292	[5210, 5211]	5315	[4863, 7103]	7338	[6061, 2623]
1270	[2338, 2339]	3293	[5212, 5213]	5316	[3284, 7104]	7339	[6495, 6372]
1271	[1907, 2340]	3294	[5214, 5215]	5317	[3526, 7105]	7340	[6611, 2928]
1272	[2341, 2342]	3295	[5216, 928]	5318	[4644, 4562]	7341	[8005, 7954]
1273	[2343, 2344]	3296	[173, 209]	5319	[7060, 1364]	7342	[8006, 6614]
1274	[2345, 2346]	3297	[5217, 5218]	5320	[7106, 7107]	7343	[8007, 740]
1275	[2347, 2348]	3298	[5219, 5220]	5321	[4119, 6857]	7344	[8008, 5274]
1276	[2349, 2211]	3299	[531, 582]	5322	[7108, 3075]	7345	[6627, 7782]
1277	[2350, 2351]	3300	[5221, 5222]	5323	[3257, 7109]	7346	[6328, 6167]
1278	[2352, 2353]	3301	[5223, 5224]	5324	[7110, 1405]	7347	[7941, 788]
1279	[2354, 2355]	3302	[5225, 5226]	5325	[6819, 1043]	7348	[7897, 2972]
1280	[2280, 2356]	3303	[5070, 5227]	5326	[4728, 4542]	7349	[7889, 5393]
1281	[2357, 2358]	3304	[2379, 1850]	5327	[4806, 7111]	7350	[2198, 6083]
1282	[2048, 2359]	3305	[5228, 144]	5328	[3947, 7112]	7351	[2734, 6606]
1283	[2360, 1931]	3306	[2948, 2752]	5329	[7113, 3648]	7352	[5321, 6202]
1284	[2361, 2362]	3307	[2825, 5229]	5330	[7114, 7115]	7353	[6304, 760]
1285	[2363, 134]	3308	[831, 5230]	5331	[4847, 3668]	7354	[4930, 8009]
1286	[2364, 150]	3309	[5231, 5232]	5332	[6926, 7116]	7355	[5677, 8008]
1287	[2365, 2366]	3310	[1926, 2075]	5333	[3748, 3187]	7356	[6662, 2242]
1288	[2367, 2368]	3311	[5101, 237]	5334	[7117, 7047]	7357	[7933, 7987]
1289	[1983, 2059]	3312	[5233, 2236]	5335	[7118, 7119]	7358	[5718, 669]
1290	[2369, 2370]	3313	[5234, 5235]	5336	[4092, 4545]	7359	[8010, 7970]
1291	[2371, 2372]	3314	[4918, 5236]	5337	[6971, 6848]	7360	[2912, 191]
1292	[2373, 2374]	3315	[1758, 5237]	5338	[1630, 7120]	7361	[6418, 673]
1293	[2375, 2376]	3316	[5238, 5239]	5339	[6925, 7121]	7362	[8011, 7974]
1294	[2377, 2378]	3317	[5240, 2324]	5340	[6981, 1285]	7363	[5774, 2397]
1295	[910, 2379]	3318	[5241, 5242]	5341	[7122, 378]	7364	[5315, 4939]
1296	[1855, 2380]	3319	[5243, 5244]	5342	[7123, 4214]	7365	[1853, 5100]
1297	[2381, 2382]	3320	[5245, 1840]	5343	[7124, 7125]	7366	[8003, 5810]
1298	[2383, 2384]	3321	[2541, 5246]	5344	[7126, 3360]	7367	[5421, 5243]
1299	[2385, 2386]	3322	[5247, 5248]	5345	[7127, 6739]	7368	[7856, 7769]
1300	[2387, 2388]	3323	[5249, 5250]	5346	[1450, 7128]	7369	[6091, 1895]
1301	[2389, 710]	3324	[5251, 5252]	5347	[7129, 7130]	7370	[2967, 7896]
1302	[2390, 2391]	3325	[5253, 2582]	5348	[4731, 7131]	7371	[6668, 6199]
1303	[2392, 2393]	3326	[5254, 4923]	5349	[3861, 1648]	7372	[6161, 6563]

1304	[751, 2394]	3327	[5255, 5067]	5350	[7132, 7133]	7373	[7816, 2620]
1305	[2395, 2396]	3328	[5256, 2922]	5351	[7134, 4538]	7374	[6502, 223]
1306	[2397, 2398]	3329	[5257, 5258]	5352	[4795, 3213]	7375	[8012, 8013]
1307	[2399, 2400]	3330	[5259, 5260]	5353	[4484, 3763]	7376	[7828, 6489]
1308	[2131, 2401]	3331	[5261, 2385]	5354	[3152, 3074]	7377	[487, 7771]
1309	[2402, 2403]	3332	[3050, 5262]	5355	[7135, 4798]	7378	[2029, 8014]
1310	[2404, 2405]	3333	[2687, 5263]	5356	[4767, 7031]	7379	[7892, 7867]
1311	[2406, 2407]	3334	[679, 5264]	5357	[3811, 4333]	7380	[2881, 2108]
1312	[2408, 2409]	3335	[771, 5265]	5358	[3572, 7024]	7381	[52, 2561]
1313	[2410, 219]	3336	[767, 2357]	5359	[7136, 7100]	7382	[6370, 6074]
1314	[2411, 2412]	3337	[5266, 2051]	5360	[7137, 1297]	7383	[6449, 7948]
1315	[2413, 2414]	3338	[5267, 5268]	5361	[7138, 1299]	7384	[2903, 2552]
1316	[2415, 2416]	3339	[4951, 5269]	5362	[7139, 7140]	7385	[7824, 6279]
1317	[2417, 2418]	3340	[5270, 5271]	5363	[4856, 336]	7386	[2631, 6059]
1318	[2419, 2420]	3341	[5272, 5273]	5364	[4509, 7141]	7387	[5172, 53]
1319	[2421, 653]	3342	[5274, 1834]	5365	[4058, 4447]	7388	[7863, 5386]
1320	[2422, 2423]	3343	[5275, 5276]	5366	[3162, 6985]	7389	[6493, 5055]
1321	[2424, 2425]	3344	[5277, 5278]	5367	[4169, 7142]	7390	[713, 6333]
1322	[1953, 2426]	3345	[5279, 5280]	5368	[3157, 3906]	7391	[4937, 8015]
1323	[719, 2427]	3346	[2210, 3011]	5369	[3164, 7143]	7392	[6375, 7775]
1324	[2428, 1987]	3347	[5281, 2255]	5370	[3438, 3864]	7393	[1763, 5267]
1325	[2429, 2430]	3348	[5282, 5283]	5371	[7144, 7145]	7394	[8016, 8017]
1326	[2431, 2432]	3349	[5284, 3046]	5372	[6742, 3410]	7395	[8018, 8019]
1327	[2433, 37]	3350	[4989, 1764]	5373	[957, 4109]	7396	[2562, 7776]
1328	[2201, 2434]	3351	[5285, 2073]	5374	[1082, 403]	7397	[2995, 8020]
1329	[2435, 2436]	3352	[5286, 5287]	5375	[4567, 4099]	7398	[5863, 7932]
1330	[2241, 2437]	3353	[872, 5288]	5376	[7146, 1679]	7399	[6443, 5308]
1331	[2438, 2439]	3354	[5289, 5290]	5377	[4368, 1631]	7400	[6657, 7847]
1332	[2440, 2441]	3355	[5291, 5292]	5378	[4858, 3430]	7401	[5435, 7934]
1333	[206, 2442]	3356	[5293, 812]	5379	[3159, 7147]	7402	[2072, 624]
1334	[2443, 2444]	3357	[5294, 5151]	5380	[472, 3060]	7403	[8021, 5354]
1335	[2445, 2446]	3358	[5295, 5296]	5381	[3644, 7148]	7404	[5152, 2483]
1336	[2447, 2215]	3359	[4876, 2691]	5382	[1694, 4794]	7405	[5262, 602]
1337	[2448, 2449]	3360	[5297, 5298]	5383	[1524, 7149]	7406	[4997, 39]
1338	[2450, 2451]	3361	[2566, 706]	5384	[7150, 7151]	7407	[2667, 197]
1339	[773, 2030]	3362	[5299, 5300]	5385	[1132, 4191]	7408	[6189, 5781]
1340	[1775, 2452]	3363	[5301, 5302]	5386	[7152, 4444]	7409	[7836, 8022]
1341	[2453, 2454]	3364	[5303, 5304]	5387	[343, 7153]	7410	[2923, 221]
1342	[147, 2455]	3365	[2126, 5305]	5388	[7154, 7124]	7411	[2986, 2345]
1343	[2456, 2457]	3366	[5306, 5307]	5389	[4052, 3753]	7412	[5547, 2070]
1344	[2458, 2459]	3367	[5308, 5309]	5390	[4772, 7155]	7413	[2518, 5792]
1345	[717, 2460]	3368	[3031, 5310]	5391	[3900, 4001]	7414	[2946, 6013]
1346	[2461, 2462]	3369	[3055, 5311]	5392	[4353, 3789]	7415	[6025, 8023]
1347	[2463, 2464]	3370	[2708, 2450]	5393	[7156, 4266]	7416	[6409, 1896]

1348	[2465, 2466]	3371	[5312, 5313]	5394	[7081, 7157]	7417	[737, 3025]
1349	[2467, 2468]	3372	[5314, 1808]	5395	[7063, 3464]	7418	[5470, 6635]
1350	[829, 2223]	3373	[2859, 5315]	5396	[3366, 4249]	7419	[6474, 8021]
1351	[2129, 2469]	3374	[5316, 5317]	5397	[447, 4554]	7420	[5717, 7951]
1352	[2455, 2470]	3375	[4949, 873]	5398	[4089, 7158]	7421	[6326, 8024]
1353	[2471, 2472]	3376	[725, 5318]	5399	[4561, 4645]	7422	[6440, 7914]
1354	[2473, 2474]	3377	[559, 5319]	5400	[7159, 3417]	7423	[5344, 5004]
1355	[2475, 2476]	3378	[5320, 5321]	5401	[1324, 4663]	7424	[6350, 1858]
1356	[2477, 2478]	3379	[5322, 2240]	5402	[3391, 6722]	7425	[2470, 6503]
1357	[848, 148]	3380	[868, 4921]	5403	[7160, 7161]	7426	[8025, 5345]
1358	[2479, 2306]	3381	[5323, 5324]	5404	[4570, 1698]	7427	[5377, 6174]
1359	[2480, 847]	3382	[5325, 5326]	5405	[3998, 4716]	7428	[6270, 233]
1360	[2481, 2482]	3383	[145, 5327]	5406	[7133, 1722]	7429	[7904, 5084]
1361	[2483, 548]	3384	[1835, 2112]	5407	[4199, 1362]	7430	[6153, 2891]
1362	[2484, 2485]	3385	[2305, 5328]	5408	[7162, 4855]	7431	[6129, 8026]
1363	[2486, 2487]	3386	[5329, 5330]	5409	[347, 3452]	7432	[7931, 6585]
1364	[918, 2488]	3387	[3033, 5331]	5410	[4348, 7098]	7433	[6133, 1875]
1365	[687, 2489]	3388	[5332, 5333]	5411	[7163, 4362]	7434	[7868, 2714]
1366	[2490, 2491]	3389	[5334, 5335]	5412	[7119, 4188]	7435	[6099, 8027]
1367	[2492, 810]	3390	[5336, 5337]	5413	[6880, 7164]	7436	[8028, 2311]
1368	[2493, 2494]	3391	[36, 2611]	5414	[7165, 7166]	7437	[8019, 7891]
1369	[2495, 2496]	3392	[870, 5338]	5415	[352, 4294]	7438	[5579, 7874]
1370	[739, 2497]	3393	[5103, 5339]	5416	[16, 4123]	7439	[2760, 6651]
1371	[2498, 2499]	3394	[2426, 5340]	5417	[1272, 4653]	7440	[7947, 7909]
1372	[1924, 33]	3395	[5341, 5342]	5418	[4668, 3866]	7441	[5401, 4994]
1373	[2500, 2501]	3396	[789, 2304]	5419	[3503, 7167]	7442	[6237, 5674]
1374	[58, 2502]	3397	[5343, 5344]	5420	[7168, 4410]	7443	[2069, 7973]
1375	[2503, 2504]	3398	[5345, 5346]	5421	[3212, 252]	7444	[5022, 5284]
1376	[2505, 2506]	3399	[5347, 2727]	5422	[7073, 7086]	7445	[7975, 5495]
1377	[2507, 2508]	3400	[5348, 5349]	5423	[7147, 3168]	7446	[8029, 6394]
1378	[2509, 2510]	3401	[5350, 2134]	5424	[1534, 3513]	7447	[7928, 1887]
1379	[2511, 2512]	3402	[5351, 2761]	5425	[1011, 7169]	7448	[250, 2822]
1380	[2513, 2514]	3403	[1883, 59]	5426	[7170, 1502]	7449	[6674, 5486]
1381	[2515, 2516]	3404	[886, 176]	5427	[4443, 7171]	7450	[5719, 6014]
1382	[2517, 2518]	3405	[5352, 5353]	5428	[6858, 3716]	7451	[5042, 8030]
1383	[2519, 2520]	3406	[5354, 5355]	5429	[3076, 7172]	7452	[2784, 7777]
1384	[2521, 2522]	3407	[5356, 5357]	5430	[3732, 7173]	7453	[8022, 8031]
1385	[2153, 2523]	3408	[5358, 5359]	5431	[4462, 1366]	7454	[6235, 2027]
1386	[2524, 2525]	3409	[5360, 5361]	5432	[1499, 7174]	7455	[1810, 8032]
1387	[2526, 568]	3410	[5362, 5363]	5433	[7175, 7176]	7456	[7980, 2841]
1388	[2527, 2528]	3411	[4889, 5364]	5434	[7177, 6887]	7457	[2301, 8033]
1389	[2529, 2530]	3412	[5229, 2876]	5435	[1359, 1252]	7458	[6612, 136]
1390	[2531, 154]	3413	[5365, 5366]	5436	[3456, 1131]	7459	[2779, 6193]
1391	[2532, 2533]	3414	[2476, 5367]	5437	[1371, 7178]	7460	[6335, 2080]

1392	[2534, 542]	3415	[2478, 1755]	5438	[4044, 7179]	7461	[6278, 6389]
1393	[2391, 2535]	3416	[5368, 2646]	5439	[3975, 300]	7462	[8034, 6492]
1394	[2536, 2132]	3417	[5369, 5370]	5440	[7180, 1409]	7463	[6182, 8035]
1395	[2267, 2537]	3418	[5371, 2988]	5441	[3347, 4552]	7464	[5143, 6631]
1396	[2538, 2539]	3419	[5367, 5372]	5442	[3272, 4550]	7465	[2811, 2156]
1397	[2540, 2541]	3420	[5373, 2895]	5443	[3803, 3450]	7466	[6143, 2717]
1398	[167, 2542]	3421	[2942, 5374]	5444	[4073, 7181]	7467	[7989, 8036]
1399	[2543, 2544]	3422	[5375, 5376]	5445	[7032, 4857]	7468	[7971, 8037]
1400	[2545, 2546]	3423	[2558, 5377]	5446	[7182, 7089]	7469	[2690, 5990]
1401	[2547, 750]	3424	[5378, 5379]	5447	[6730, 3394]	7470	[5692, 730]
1402	[2548, 2549]	3425	[5380, 5138]	5448	[7183, 4229]	7471	[5989, 7879]
1403	[2550, 2551]	3426	[5381, 1919]	5449	[7184, 7185]	7472	[617, 8038]
1404	[2552, 2553]	3427	[5382, 2984]	5450	[7186, 7187]	7473	[6531, 5733]
1405	[2554, 2555]	3428	[4903, 5383]	5451	[3828, 7188]	7474	[8038, 6570]
1406	[2556, 2557]	3429	[5384, 5385]	5452	[7189, 1719]	7475	[500, 5071]
1407	[42, 2558]	3430	[5386, 5387]	5453	[1596, 944]	7476	[2927, 6067]
1408	[2559, 2560]	3431	[5388, 5389]	5454	[6713, 3910]	7477	[2555, 814]
1409	[2561, 2562]	3432	[1936, 5390]	5455	[6847, 1556]	7478	[1966, 6003]
1410	[929, 2563]	3433	[5391, 5392]	5456	[7190, 7191]	7479	[2512, 7967]
1411	[2468, 2564]	3434	[2971, 231]	5457	[7192, 362]	7480	[6244, 8039]
1412	[2565, 2566]	3435	[5393, 5394]	5458	[7052, 3207]	7481	[2362, 6072]
1413	[2567, 2568]	3436	[2261, 5395]	5459	[7116, 4037]	7482	[7898, 7790]
1414	[2569, 2570]	3437	[5396, 2529]	5460	[6734, 7193]	7483	[6451, 5197]
1415	[2571, 2572]	3438	[5397, 2892]	5461	[7194, 1227]	7484	[1884, 2513]
1416	[2573, 2574]	3439	[2414, 5398]	5462	[6737, 7195]	7485	[7855, 6508]
1417	[2575, 2576]	3440	[2290, 5399]	5463	[4287, 7196]	7486	[8040, 6230]
1418	[2577, 2578]	3441	[5400, 5401]	5464	[1087, 7197]	7487	[2896, 5776]
1419	[1754, 2579]	3442	[2321, 799]	5465	[7198, 6896]	7488	[5498, 6275]
1420	[2580, 2581]	3443	[5402, 5403]	5466	[6918, 4504]	7489	[2603, 6233]
1421	[2582, 2583]	3444	[5404, 5405]	5467	[4617, 3574]	7490	[2563, 7814]
1422	[2584, 2585]	3445	[5406, 5407]	5468	[1610, 7199]	7491	[2796, 6146]
1423	[2586, 2587]	3446	[5408, 5409]	5469	[4012, 7110]	7492	[5637, 6569]
1424	[2588, 2589]	3447	[2474, 5410]	5470	[1365, 7200]	7493	[7799, 6397]
1425	[491, 2590]	3448	[2457, 5411]	5471	[3480, 7201]	7494	[6324, 5028]
1426	[2591, 2592]	3449	[5305, 5412]	5472	[4677, 1614]	7495	[2729, 5453]
1427	[2593, 2419]	3450	[5056, 5413]	5473	[7202, 7203]	7496	[2269, 2805]
1428	[2594, 610]	3451	[5414, 5415]	5474	[3783, 6916]	7497	[6009, 8029]
1429	[2595, 2596]	3452	[5416, 2643]	5475	[7204, 7205]	7498	[1876, 4980]
1430	[2597, 2350]	3453	[672, 5417]	5476	[6712, 6911]	7499	[6207, 6552]
1431	[2598, 2599]	3454	[5116, 2756]	5477	[7206, 7207]	7500	[7893, 5725]
1432	[2600, 2601]	3455	[2235, 2092]	5478	[6735, 3519]	7501	[6479, 5918]
1433	[2602, 2603]	3456	[2720, 2094]	5479	[3990, 7208]	7502	[5244, 6491]
1434	[190, 2604]	3457	[5418, 5419]	5480	[7209, 451]	7503	[676, 7796]
1435	[2605, 2606]	3458	[765, 2926]	5481	[4000, 3374]	7504	[8024, 8010]

1436	[2607, 2608]	3459	[5420, 5421]	5482	[4255, 7041]	7505	[8041, 7998]
1437	[2609, 2610]	3460	[5422, 5140]	5483	[3924, 4004]	7506	[2444, 8011]
1438	[2611, 857]	3461	[2137, 5275]	5484	[7207, 4680]	7507	[7842, 6330]
1439	[2612, 2613]	3462	[5423, 5424]	5485	[4540, 1624]	7508	[6620, 5694]
1440	[2614, 2615]	3463	[2487, 2670]	5486	[7210, 7209]	7509	[2056, 6469]
1441	[2616, 2617]	3464	[5425, 5426]	5487	[7211, 7212]	7510	[6395, 7991]
1442	[2618, 2619]	3465	[702, 5427]	5488	[7213, 7214]	7511	[4902, 8042]
1443	[2620, 1798]	3466	[5038, 5428]	5489	[3204, 7215]	7512	[6652, 8043]
1444	[165, 2199]	3467	[5429, 5430]	5490	[7216, 7217]	7513	[2159, 2341]
1445	[2621, 2622]	3468	[5431, 724]	5491	[7218, 4449]	7514	[2405, 2595]
1446	[2623, 2624]	3469	[5207, 5368]	5492	[7219, 3733]	7515	[6666, 6032]
1447	[2596, 2625]	3470	[2672, 5432]	5493	[7220, 400]	7516	[44, 732]
1448	[2626, 2627]	3471	[5433, 5434]	5494	[7221, 7222]	7517	[6626, 2865]
1449	[2628, 2629]	3472	[1973, 5435]	5495	[7223, 7224]	7518	[2875, 6266]
1450	[2630, 2631]	3473	[1971, 5436]	5496	[3520, 6808]	7519	[2937, 2463]
1451	[856, 2632]	3474	[1972, 5437]	5497	[7225, 7226]	7520	[8039, 4910]
1452	[2633, 2634]	3475	[5438, 2435]	5498	[7227, 7228]	7521	[6434, 6667]
1453	[2635, 2636]	3476	[1841, 5439]	5499	[7229, 7230]	7522	[2174, 5602]
1454	[2637, 2638]	3477	[5440, 2824]	5500	[7231, 3195]	7523	[8044, 6400]
1455	[2639, 2640]	3478	[834, 5441]	5501	[3773, 1215]	7524	[6624, 5790]
1456	[2641, 2609]	3479	[1861, 5442]	5502	[3229, 7232]	7525	[2327, 1824]
1457	[149, 2642]	3480	[2329, 128]	5503	[7233, 4495]	7526	[2099, 2481]
1458	[2643, 2440]	3481	[3058, 5245]	5504	[1114, 7152]	7527	[5853, 5256]
1459	[2644, 2645]	3482	[5443, 2594]	5505	[1398, 7234]	7528	[8032, 7882]
1460	[2646, 2647]	3483	[161, 5444]	5506	[7235, 7236]	7529	[7988, 6608]
1461	[2648, 2649]	3484	[5445, 5446]	5507	[4419, 7237]	7530	[2654, 7919]
1462	[2650, 2651]	3485	[5447, 5448]	5508	[7115, 460]	7531	[7887, 8004]
1463	[2652, 1908]	3486	[5449, 5450]	5509	[4704, 4303]	7532	[6586, 195]
1464	[2653, 2410]	3487	[809, 5451]	5510	[3883, 4279]	7533	[537, 2830]
1465	[2251, 2654]	3488	[5452, 4917]	5511	[7238, 1687]	7534	[5525, 772]
1466	[2655, 2656]	3489	[5453, 1893]	5512	[1356, 3414]	7535	[7803, 6487]
1467	[2657, 808]	3490	[1743, 5454]	5513	[7103, 1045]	7536	[1846, 6521]
1468	[2606, 618]	3491	[5455, 5202]	5514	[4407, 4158]	7537	[2712, 7780]
1469	[652, 2658]	3492	[2656, 5456]	5515	[7239, 7240]	7538	[2501, 7830]
1470	[2659, 2660]	3493	[5457, 5458]	5516	[7241, 7242]	7539	[4972, 7768]
1471	[2661, 2662]	3494	[5459, 2369]	5517	[7243, 3701]	7540	[6214, 7968]
1472	[2663, 2664]	3495	[5460, 5461]	5518	[7244, 4747]	7541	[8037, 3037]
1473	[2665, 2666]	3496	[5462, 5463]	5519	[7181, 4163]	7542	[8045, 6485]
1474	[2557, 2490]	3497	[5464, 5465]	5520	[4812, 7070]	7543	[6527, 2031]
1475	[674, 2667]	3498	[689, 5171]	5521	[6917, 4827]	7544	[650, 7881]
1476	[2668, 2399]	3499	[5466, 5467]	5522	[3991, 7245]	7545	[745, 5089]
1477	[2669, 2046]	3500	[5468, 5469]	5523	[7246, 3065]	7546	[8046, 576]
1478	[2670, 2298]	3501	[704, 5470]	5524	[74, 1456]	7547	[5439, 7823]
1479	[2671, 2672]	3502	[5471, 5472]	5525	[7247, 4252]	7548	[7906, 6625]

1480	[2673, 2205]	3503	[5473, 5474]	5526	[7248, 4114]	7549	[6339, 6004]
1481	[2674, 2675]	3504	[2323, 5475]	5527	[7249, 7250]	7550	[6142, 5153]
1482	[2676, 2677]	3505	[5476, 5477]	5528	[7251, 3221]	7551	[5882, 6553]
1483	[2678, 2679]	3506	[4915, 5478]	5529	[7105, 4615]	7552	[5861, 6416]
1484	[2680, 2681]	3507	[5479, 5299]	5530	[6947, 1100]	7553	[1819, 5341]
1485	[2682, 2683]	3508	[5480, 2813]	5531	[329, 334]	7554	[7972, 6576]
1486	[2684, 2685]	3509	[5481, 5482]	5532	[7252, 3298]	7555	[2854, 1914]
1487	[2686, 2687]	3510	[5337, 5483]	5533	[7253, 7016]	7556	[5584, 6450]
1488	[2083, 2688]	3511	[4995, 5484]	5534	[7254, 7255]	7557	[7899, 6168]
1489	[2689, 2690]	3512	[1814, 2347]	5535	[1418, 4281]	7558	[5446, 5291]
1490	[2691, 2692]	3513	[579, 5388]	5536	[6782, 3371]	7559	[5472, 5731]
1491	[2693, 2694]	3514	[2764, 5485]	5537	[3138, 7015]	7560	[5887, 7927]
1492	[2695, 2696]	3515	[5486, 5487]	5538	[7256, 1545]	7561	[6615, 6080]
1493	[2697, 2698]	3516	[5488, 509]	5539	[7257, 1535]	7562	[7996, 1916]
1494	[2699, 2320]	3517	[1864, 5489]	5540	[4313, 7258]	7563	[6164, 4894]
1495	[2700, 888]	3518	[2590, 842]	5541	[4219, 4464]	7564	[4906, 6482]
1496	[2701, 2005]	3519	[5490, 5491]	5542	[7259, 7260]	7565	[530, 5780]
1497	[2491, 2548]	3520	[694, 5492]	5543	[3422, 7261]	7566	[733, 7843]
1498	[2702, 2703]	3521	[5493, 5494]	5544	[1601, 3587]	7567	[6592, 3029]
1499	[2704, 695]	3522	[5495, 5496]	5545	[4505, 4834]	7568	[2698, 7922]
1500	[2705, 2706]	3523	[5497, 5498]	5546	[7262, 3953]	7569	[8017, 7916]
1501	[2707, 2708]	3524	[5499, 5500]	5547	[3427, 1683]	7570	[585, 2901]
1502	[2709, 2710]	3525	[5501, 639]	5548	[4595, 3459]	7571	[6139, 2057]
1503	[2711, 2712]	3526	[5502, 5503]	5549	[4674, 6907]	7572	[6175, 7834]
1504	[2713, 1759]	3527	[5504, 5505]	5550	[1661, 3160]	7573	[914, 7925]
1505	[2714, 697]	3528	[5506, 5507]	5551	[7232, 7263]	7574	[6298, 6467]
1506	[2715, 2716]	3529	[763, 4887]	5552	[7212, 7227]	7575	[6573, 7995]
1507	[2717, 2718]	3530	[5508, 5509]	5553	[7264, 296]	7576	[6677, 5886]
1508	[2719, 2720]	3531	[5050, 2588]	5554	[7265, 6928]	7577	[6239, 5092]
1509	[2721, 2722]	3532	[5510, 5511]	5555	[7266, 4428]	7578	[4926, 2077]
1510	[2723, 2724]	3533	[2307, 2507]	5556	[3693, 7267]	7579	[5226, 7976]
1511	[2725, 2726]	3534	[775, 2702]	5557	[937, 7268]	7580	[5809, 7883]
1512	[2727, 608]	3535	[777, 2704]	5558	[4476, 7269]	7581	[8047, 7809]
1513	[1881, 2238]	3536	[5512, 2815]	5559	[7270, 7271]	7582	[6498, 2283]
1514	[2728, 2729]	3537	[1911, 5422]	5560	[7272, 4046]	7583	[761, 6520]
1515	[861, 2730]	3538	[5513, 898]	5561	[7273, 3912]	7584	[2109, 7837]
1516	[2731, 2732]	3539	[5514, 243]	5562	[7056, 3859]	7585	[6103, 2652]
1517	[2733, 2734]	3540	[5515, 5516]	5563	[7274, 7275]	7586	[2726, 6591]
1518	[2735, 2736]	3541	[5517, 5518]	5564	[7276, 6807]	7587	[7821, 6024]
1519	[2737, 2738]	3542	[5176, 5519]	5565	[7277, 7278]	7588	[6598, 201]
1520	[2169, 2739]	3543	[5520, 5270]	5566	[7228, 7162]	7589	[5157, 4988]
1521	[2740, 2741]	3544	[5379, 156]	5567	[7279, 3353]	7590	[6344, 5241]
1522	[2742, 2743]	3545	[5521, 3014]	5568	[7280, 7281]	7591	[6610, 5587]
1523	[2744, 2745]	3546	[533, 2573]	5569	[7282, 7283]	7592	[2418, 5890]

1524	[2746, 2747]	3547	[5522, 5523]	5570	[3907, 7284]	7593	[2284, 2447]
1525	[2748, 2749]	3548	[5524, 5525]	5571	[7267, 7005]	7594	[7936, 525]
1526	[2750, 2751]	3549	[3056, 5526]	5572	[3766, 7285]	7595	[698, 6428]
1527	[2752, 2753]	3550	[1783, 680]	5573	[4664, 3963]	7596	[6002, 5016]
1528	[2754, 2190]	3551	[5527, 5528]	5574	[7048, 3337]	7597	[2872, 881]
1529	[1913, 2755]	3552	[2869, 5420]	5575	[7286, 6851]	7598	[2975, 8048]
1530	[2756, 2757]	3553	[224, 5529]	5576	[7287, 6949]	7599	[127, 7966]
1531	[504, 2758]	3554	[5150, 5530]	5577	[1181, 1595]	7600	[8023, 2175]
1532	[2759, 2760]	3555	[5531, 5532]	5578	[3611, 1562]	7601	[8049, 8041]
1533	[2761, 2762]	3556	[2973, 5533]	5579	[7288, 1658]	7602	[214, 5105]
1534	[2763, 2764]	3557	[5534, 5535]	5580	[3486, 3958]	7603	[8050, 5488]
1535	[2765, 2766]	3558	[5536, 2731]	5581	[4069, 3720]	7604	[5791, 2248]
1536	[2767, 2768]	3559	[5537, 869]	5582	[4328, 7289]	7605	[769, 7895]
1537	[2769, 2770]	3560	[5163, 4927]	5583	[7290, 7291]	7606	[6120, 6246]
1538	[2771, 2772]	3561	[2508, 140]	5584	[7292, 7293]	7607	[8043, 865]
1539	[2773, 2774]	3562	[3047, 5510]	5585	[4291, 7294]	7608	[6581, 1757]
1540	[2775, 2443]	3563	[5538, 821]	5586	[7295, 7296]	7609	[2741, 1788]
1541	[2776, 2777]	3564	[5539, 659]	5587	[4224, 1531]	7610	[6101, 2897]
1542	[2778, 2779]	3565	[5540, 5541]	5588	[4311, 7297]	7611	[7952, 7787]
1543	[2780, 2781]	3566	[2016, 5316]	5589	[4162, 469]	7612	[8009, 2866]
1544	[1745, 2782]	3567	[5542, 756]	5590	[6694, 7298]	7613	[8048, 2170]
1545	[2783, 2784]	3568	[5543, 2798]	5591	[6856, 7257]	7614	[4899, 5045]
1546	[2785, 2786]	3569	[5544, 5545]	5592	[1639, 5]	7615	[2393, 5972]
1547	[2787, 2788]	3570	[2312, 5546]	5593	[7299, 7300]	7616	[6648, 8044]
1548	[2789, 927]	3571	[691, 5547]	5594	[3528, 3569]	7617	[7950, 6454]
1549	[2790, 2791]	3572	[2814, 5312]	5595	[1594, 446]	7618	[854, 6660]
1550	[2792, 2793]	3573	[5548, 5549]	5596	[6915, 6769]	7619	[6588, 6094]
1551	[2568, 2794]	3574	[5550, 5551]	5597	[3462, 6780]	7620	[7964, 7813]
1552	[2795, 2796]	3575	[5390, 5306]	5598	[7301, 3149]	7621	[6583, 8016]
1553	[12, 2797]	3576	[5552, 5497]	5599	[7075, 4427]	7622	[6007, 5007]
1554	[2798, 2799]	3577	[5553, 2033]	5600	[7077, 1590]	7623	[796, 8051]
1555	[2768, 2800]	3578	[5554, 5555]	5601	[261, 7302]	7624	[7872, 2302]
1556	[2801, 2802]	3579	[5556, 5557]	5602	[3762, 7303]	7625	[2462, 6194]
1557	[2803, 1969]	3580	[5558, 5559]	5603	[3764, 7304]	7626	[2271, 2861]
1558	[2403, 2804]	3581	[2346, 5481]	5604	[7305, 7306]	7627	[2358, 5766]
1559	[2805, 2392]	3582	[4893, 2102]	5605	[90, 7307]	7628	[4938, 6006]
1560	[2806, 2807]	3583	[5560, 5251]	5606	[7308, 3765]	7629	[5564, 6216]
1561	[2808, 1842]	3584	[5561, 2299]	5607	[7309, 7310]	7630	[7833, 5396]
1562	[2809, 2810]	3585	[5260, 5562]	5608	[7311, 7264]	7631	[5643, 1965]
1563	[603, 2811]	3586	[5563, 5564]	5609	[7312, 6901]	7632	[2482, 7907]
1564	[858, 2812]	3587	[5565, 4961]	5610	[7313, 264]	7633	[8013, 6617]
1565	[2813, 2814]	3588	[5566, 5567]	5611	[7314, 3550]	7634	[7994, 5362]
1566	[2815, 1943]	3589	[5568, 5569]	5612	[4015, 7138]	7635	[5904, 6497]
1567	[2314, 824]	3590	[5570, 5571]	5613	[4355, 7315]	7636	[5978, 5833]

1568	[2816, 2817]	3591	[5572, 5382]	5614	[6904, 7316]	7637	[887, 5121]
1569	[2818, 2819]	3592	[5573, 671]	5615	[4491, 7317]	7638	[5881, 2910]
1570	[2820, 2821]	3593	[2758, 5574]	5616	[7318, 1368]	7639	[747, 7938]
1571	[2822, 1792]	3594	[2161, 2289]	5617	[7319, 7320]	7640	[6580, 5950]
1572	[2823, 2538]	3595	[5575, 2479]	5618	[4762, 6890]	7641	[6252, 7792]
1573	[2824, 2825]	3596	[5576, 5577]	5619	[3341, 3439]	7642	[518, 2852]
1574	[2826, 2827]	3597	[5578, 5579]	5620	[6852, 3189]	7643	[7939, 5744]
1575	[2828, 738]	3598	[5519, 5580]	5621	[3089, 4720]	7644	[7913, 2293]
1576	[2829, 1905]	3599	[5078, 5554]	5622	[7269, 7221]	7645	[897, 782]
1577	[2830, 2164]	3600	[5581, 5582]	5623	[4261, 3852]	7646	[541, 8012]
1578	[2831, 2832]	3601	[5583, 5584]	5624	[4263, 4286]	7647	[7835, 4905]
1579	[2833, 2834]	3602	[5585, 5583]	5625	[7321, 7206]	7648	[7962, 5949]
1580	[169, 2835]	3603	[234, 5586]	5626	[68, 6816]	7649	[8033, 5002]
1581	[2836, 2837]	3604	[5587, 5462]	5627	[7322, 4134]	7650	[6219, 5903]
1582	[2838, 1929]	3605	[5588, 5534]	5628	[7291, 7323]	7651	[5516, 8052]
1583	[2839, 2840]	3606	[5589, 5238]	5629	[1120, 6828]	7652	[2325, 5279]
1584	[2841, 2842]	3607	[5302, 5219]	5630	[7324, 1491]	7653	[5010, 2098]
1585	[1948, 2843]	3608	[2319, 5590]	5631	[7325, 7326]	7654	[2850, 7956]
1586	[2844, 2737]	3609	[607, 5591]	5632	[7327, 3573]	7655	[7811, 6546]
1587	[2845, 2411]	3610	[5333, 5592]	5633	[7328, 6874]	7656	[7851, 8025]
1588	[2846, 600]	3611	[539, 5593]	5634	[7329, 971]	7657	[644, 5851]
1589	[2847, 1991]	3612	[5594, 5595]	5635	[254, 4025]	7658	[1868, 6594]
1590	[2848, 2849]	3613	[4933, 5596]	5636	[1522, 7330]	7659	[5458, 185]
1591	[876, 2850]	3614	[5597, 5598]	5637	[7188, 7248]	7660	[2934, 1880]
1592	[2851, 566]	3615	[878, 714]	5638	[4388, 3502]	7661	[6141, 8050]
1593	[2852, 2053]	3616	[5599, 5600]	5639	[7331, 4790]	7662	[2980, 6525]
1594	[2853, 2854]	3617	[5601, 138]	5640	[3708, 7332]	7663	[2157, 8053]
1595	[2855, 2856]	3618	[5602, 5603]	5641	[7079, 3170]	7664	[5812, 5336]
1596	[2570, 2857]	3619	[2141, 519]	5642	[7333, 3541]	7665	[6572, 7969]
1597	[2858, 2859]	3620	[5604, 5294]	5643	[319, 7334]	7666	[8020, 5855]
1598	[2658, 2860]	3621	[5605, 5606]	5644	[1716, 1517]	7667	[8036, 7986]
1599	[2861, 2862]	3622	[593, 5384]	5645	[4391, 7290]	7668	[5850, 7789]
1600	[2863, 855]	3623	[5607, 5608]	5646	[1516, 7335]	7669	[6107, 6423]
1601	[822, 2864]	3624	[5551, 5609]	5647	[7242, 7336]	7670	[5842, 6181]
1602	[2865, 544]	3625	[2679, 5610]	5648	[7337, 3787]	7671	[6483, 7857]
1603	[2866, 2867]	3626	[5611, 2364]	5649	[7145, 7243]	7672	[7992, 6602]
1604	[2868, 2869]	3627	[5612, 5613]	5650	[7051, 1020]	7673	[5106, 6292]
1605	[2766, 2870]	3628	[757, 5614]	5651	[7153, 4556]	7674	[7807, 2417]
1606	[2871, 2872]	3629	[5615, 5616]	5652	[7338, 1445]	7675	[2502, 7958]
1607	[1897, 2873]	3630	[5617, 5618]	5653	[4563, 1447]	7676	[6274, 2740]
1608	[2874, 2082]	3631	[5619, 2713]	5654	[4098, 1203]	7677	[5292, 6073]
1609	[637, 2875]	3632	[2514, 2586]	5655	[4867, 7339]	7678	[8015, 8045]
1610	[2876, 2877]	3633	[194, 5620]	5656	[6815, 3992]	7679	[2624, 2930]
1611	[2878, 2879]	3634	[5621, 5622]	5657	[7340, 1642]	7680	[2208, 6041]

1612	[2880, 2881]	3635	[5623, 5624]	5658	[7341, 7342]	7681	[813, 2719]
1613	[2882, 2883]	3636	[198, 1832]	5659	[4753, 7343]	7682	[6579, 5762]
1614	[912, 2884]	3637	[5625, 2086]	5660	[4487, 976]	7683	[6639, 8001]
1615	[2885, 2886]	3638	[5626, 5627]	5661	[6876, 7160]	7684	[2932, 6415]
1616	[2887, 2888]	3639	[2366, 2669]	5662	[7344, 7345]	7685	[2696, 6412]
1617	[2889, 1912]	3640	[2551, 5628]	5663	[4363, 7346]	7686	[220, 6271]
1618	[2331, 2890]	3641	[5629, 217]	5664	[3962, 7347]	7687	[131, 7802]
1619	[2891, 853]	3642	[5630, 790]	5665	[7348, 7349]	7688	[2040, 655]
1620	[2892, 2893]	3643	[5631, 5632]	5666	[1192, 7350]	7689	[5485, 5184]
1621	[785, 2894]	3644	[5586, 5633]	5667	[1089, 7044]	7690	[6089, 2090]
1622	[2895, 2896]	3645	[5634, 5635]	5668	[7091, 7351]	7691	[6263, 7915]
1623	[2897, 2898]	3646	[5636, 5637]	5669	[1277, 4694]	7692	[2751, 7999]
1624	[2899, 2900]	3647	[5638, 2413]	5670	[7352, 7210]	7693	[6302, 205]
1625	[2901, 2902]	3648	[5639, 3001]	5671	[7353, 4060]	7694	[2629, 5650]
1626	[563, 2903]	3649	[2179, 5640]	5672	[3098, 7354]	7695	[5739, 2110]
1627	[2904, 2905]	3650	[551, 2795]	5673	[6973, 4132]	7696	[5655, 1772]
1628	[2906, 2907]	3651	[5641, 5323]	5674	[7355, 1483]	7697	[8054, 2313]
1629	[2908, 2909]	3652	[5642, 4963]	5675	[4868, 7356]	7698	[8030, 2906]
1630	[2910, 2197]	3653	[2608, 5643]	5676	[349, 1475]	7699	[2800, 6307]
1631	[2911, 2912]	3654	[920, 5644]	5677	[6787, 440]	7700	[6500, 2863]
1632	[2615, 162]	3655	[924, 2941]	5678	[7357, 1666]	7701	[8053, 5249]
1633	[2913, 2914]	3656	[5645, 1811]	5679	[3721, 7358]	7702	[1960, 7885]
1634	[2915, 2916]	3657	[5646, 5647]	5680	[3794, 7202]	7703	[2191, 7965]
1635	[2917, 2918]	3658	[5648, 675]	5681	[7359, 3928]	7704	[5310, 2924]
1636	[1946, 2919]	3659	[5593, 5649]	5682	[1319, 3812]	7705	[8055, 2002]
1637	[2920, 2921]	3660	[5650, 5651]	5683	[1632, 7360]	7706	[6480, 6679]
1638	[2922, 2923]	3661	[5652, 5653]	5684	[1540, 4023]	7707	[6086, 7866]
1639	[2206, 13]	3662	[5654, 5655]	5685	[4177, 4367]	7708	[6321, 2232]
1640	[2924, 2925]	3663	[2370, 2336]	5686	[3671, 3442]	7709	[7942, 2607]
1641	[2926, 2140]	3664	[5656, 2338]	5687	[7361, 7362]	7710	[5451, 5636]
1642	[2925, 2927]	3665	[1968, 2334]	5688	[4864, 3959]	7711	[6411, 5217]
1643	[2928, 2929]	3666	[5657, 875]	5689	[7363, 4103]	7712	[755, 5537]
1644	[715, 2461]	3667	[535, 554]	5690	[4463, 7364]	7713	[5363, 170]
1645	[2930, 2465]	3668	[5658, 4955]	5691	[470, 4837]	7714	[2968, 5558]
1646	[2931, 2932]	3669	[2835, 5659]	5692	[7365, 7366]	7715	[5884, 8000]
1647	[2933, 2934]	3670	[5660, 1978]	5693	[7367, 3163]	7716	[6442, 8002]
1648	[178, 2935]	3671	[5661, 5402]	5694	[1174, 4187]	7717	[2256, 6511]
1649	[2936, 2937]	3672	[5662, 5663]	5695	[7368, 6693]	7718	[6453, 8046]
1650	[1990, 2938]	3673	[5006, 5664]	5696	[4685, 6695]	7719	[5557, 6685]
1651	[2749, 2939]	3674	[2664, 2882]	5697	[7125, 4401]	7720	[2553, 915]
1652	[2940, 2531]	3675	[5665, 4998]	5698	[7369, 7324]	7721	[5952, 2569]
1653	[2941, 2942]	3676	[2416, 703]	5699	[432, 4783]	7722	[2394, 7982]
1654	[2943, 2944]	3677	[5666, 5667]	5700	[7370, 4189]	7723	[5704, 6075]
1655	[863, 2945]	3678	[5668, 5669]	5701	[3603, 3735]	7724	[5061, 5604]

1656	[827, 2946]	3679	[5670, 5671]	5702	[1153, 1351]	7725	[8027, 7990]
1657	[2947, 2948]	3680	[5672, 1871]	5703	[4828, 7371]	7726	[6678, 6459]
1658	[2949, 2950]	3681	[5673, 2445]	5704	[7372, 7373]	7727	[7848, 2618]
1659	[2951, 2322]	3682	[5651, 1852]	5705	[7360, 4782]	7728	[3015, 5824]
1660	[2952, 712]	3683	[5674, 5576]	5706	[7226, 7311]	7729	[8026, 6541]
1661	[2953, 2954]	3684	[906, 5675]	5707	[1637, 6841]	7730	[6030, 5517]
1662	[2604, 2955]	3685	[4954, 5676]	5708	[6894, 4700]	7731	[7957, 5721]
1663	[2956, 2957]	3686	[5188, 5677]	5709	[4296, 4754]	7732	[5580, 8054]
1664	[2095, 1959]	3687	[1934, 5678]	5710	[4580, 7374]	7733	[6150, 7993]
1665	[561, 2958]	3688	[2149, 5679]	5711	[7375, 4274]	7734	[656, 6686]
1666	[2959, 2960]	3689	[5680, 647]	5712	[3313, 4309]	7735	[8042, 5943]
1667	[2961, 1974]	3690	[1986, 5681]	5713	[1696, 6729]	7736	[5591, 6191]
1668	[2171, 2962]	3691	[5682, 4940]	5714	[7376, 4736]	7737	[629, 534]
1669	[2963, 2964]	3692	[5338, 5683]	5715	[7377, 7322]	7738	[5529, 7900]
1670	[2965, 780]	3693	[820, 5684]	5716	[4800, 6950]	7739	[5448, 2422]
1671	[2966, 2967]	3694	[5685, 5686]	5717	[7378, 7379]	7740	[7850, 2203]
1672	[731, 2968]	3695	[5687, 5452]	5718	[3664, 1269]	7741	[2089, 6170]
1673	[2101, 2969]	3696	[5688, 5689]	5719	[3529, 3884]	7742	[666, 5146]
1674	[555, 2970]	3697	[5690, 5654]	5720	[464, 4480]	7743	[2011, 5457]
1675	[2259, 2971]	3698	[5691, 5692]	5721	[339, 7380]	7744	[5796, 2055]
1676	[2972, 2973]	3699	[5489, 5693]	5722	[7381, 984]	7745	[5921, 6315]
1677	[2974, 2975]	3700	[5694, 596]	5723	[3243, 7038]	7746	[759, 5471]
1678	[2976, 2977]	3701	[2147, 249]	5724	[7382, 4292]	7747	[7873, 7929]
1679	[2978, 1949]	3702	[5695, 5696]	5725	[7383, 6919]	7748	[6053, 8007]
1680	[889, 2473]	3703	[5697, 5698]	5726	[7384, 7385]	7749	[5324, 744]
1681	[2979, 2980]	3704	[5699, 5700]	5727	[1667, 6751]	7750	[6227, 6050]
1682	[2860, 2981]	3705	[5463, 5701]	5728	[7351, 3294]	7751	[7794, 4948]
1683	[2982, 2983]	3706	[605, 5702]	5729	[3389, 122]	7752	[2921, 8005]
1684	[2984, 2985]	3707	[5703, 5704]	5730	[4147, 3653]	7753	[8035, 2458]
1685	[2163, 2986]	3708	[5705, 5706]	5731	[4520, 3633]	7754	[8052, 5303]
1686	[1938, 2987]	3709	[5707, 5459]	5732	[7173, 4651]	7755	[4931, 5815]
1687	[2988, 2989]	3710	[5708, 5373]	5733	[7128, 7386]	7756	[6291, 5994]
1688	[2990, 2836]	3711	[5709, 5710]	5734	[7387, 6711]	7757	[2436, 7884]
1689	[783, 2991]	3712	[3041, 5711]	5735	[7197, 7096]	7758	[6680, 7997]
1690	[2992, 2809]	3713	[5712, 2699]	5736	[3734, 3499]	7759	[6420, 6376]
1691	[2993, 2689]	3714	[908, 5713]	5737	[7224, 4070]	7760	[8051, 6629]
1692	[2151, 2994]	3715	[5714, 5502]	5738	[7388, 7389]	7761	[8031, 1982]
1693	[2688, 2995]	3716	[5715, 1935]	5739	[4343, 3665]	7762	[2237, 5009]
1694	[599, 2996]	3717	[5716, 5717]	5740	[1317, 7390]	7763	[6311, 523]
1695	[2997, 2998]	3718	[2666, 2114]	5741	[7185, 3882]	7764	[2372, 6165]
1696	[2054, 2999]	3719	[5215, 930]	5742	[7389, 3181]	7765	[6358, 8049]
1697	[3000, 168]	3720	[2111, 5718]	5743	[3354, 7249]	7766	[8056, 2012]
1698	[3001, 3002]	3721	[171, 5719]	5744	[4358, 3421]	7767	[8057, 7447]
1699	[3003, 2064]	3722	[5720, 5685]	5745	[4013, 3423]	7768	[4649, 4569]

1700	[3004, 3005]	3723	[5721, 5191]	5746	[7391, 7392]	7769	[4602, 7746]
1701	[1795, 3006]	3724	[2560, 5722]	5747	[4581, 368]	7770	[7573, 4016]
1702	[3007, 3008]	3725	[5723, 181]	5748	[7393, 4195]	7771	[933, 6939]
1703	[3009, 3010]	3726	[4979, 5660]	5749	[1665, 7337]	7772	[1557, 6777]
1704	[3011, 3012]	3727	[5724, 2234]	5750	[3148, 4412]	7773	[6834, 7456]
1705	[2195, 3013]	3728	[5725, 5285]	5751	[7394, 7395]	7774	[3124, 3551]
1706	[3014, 3015]	3729	[5574, 5449]	5752	[1503, 414]	7775	[7747, 3926]
1707	[3016, 3017]	3730	[5726, 2593]	5753	[4703, 7396]	7776	[7725, 4576]
1708	[3018, 3019]	3731	[1993, 5727]	5754	[4805, 7397]	7777	[379, 7594]
1709	[779, 849]	3732	[5728, 5122]	5755	[3846, 7398]	7778	[4372, 1547]
1710	[3020, 3021]	3733	[5729, 5301]	5756	[3507, 4818]	7779	[4267, 3311]
1711	[3022, 3023]	3734	[5342, 2505]	5757	[7399, 7400]	7780	[1256, 4337]
1712	[143, 3024]	3735	[5730, 5003]	5758	[354, 7198]	7781	[4810, 7512]
1713	[1777, 2373]	3736	[5731, 5732]	5759	[7148, 95]	7782	[6912, 3408]
1714	[3025, 132]	3737	[5733, 5734]	5760	[7004, 7113]	7783	[6743, 7194]
1715	[2063, 2733]	3738	[5735, 5646]	5761	[7164, 4324]	7784	[8058, 4597]
1716	[3026, 2735]	3739	[5736, 1997]	5762	[1441, 6962]	7785	[6903, 1726]
1717	[3027, 3028]	3740	[3052, 5277]	5763	[7054, 6885]	7786	[3754, 6882]
1718	[3029, 3030]	3741	[2890, 4936]	5764	[1494, 1333]	7787	[8059, 3620]
1719	[2782, 3031]	3742	[5496, 5737]	5765	[7036, 7137]	7788	[115, 1685]
1720	[3032, 3033]	3743	[5738, 5739]	5766	[7374, 3383]	7789	[4336, 7165]
1721	[681, 3034]	3744	[5649, 5740]	5767	[7401, 7402]	7790	[4010, 7406]
1722	[2864, 3035]	3745	[2052, 2711]	5768	[1182, 1340]	7791	[6959, 4681]
1723	[3036, 598]	3746	[5450, 5741]	5769	[1184, 1004]	7792	[6993, 1068]
1724	[3037, 3038]	3747	[5742, 5645]	5770	[4390, 3818]	7793	[4768, 7241]
1725	[3039, 1830]	3748	[1909, 5743]	5771	[4256, 4869]	7794	[3073, 6891]
1726	[3040, 3041]	3749	[5744, 5745]	5772	[4003, 986]	7795	[7395, 8060]
1727	[1825, 3042]	3750	[208, 2978]	5773	[7403, 3405]	7796	[3091, 7713]
1728	[3043, 2429]	3751	[5746, 5747]	5774	[3249, 4807]	7797	[7502, 1207]
1729	[3044, 2431]	3752	[5748, 5749]	5775	[3253, 7404]	7798	[4061, 7759]
1730	[1823, 3045]	3753	[5213, 5750]	5776	[3079, 318]	7799	[4440, 1674]
1731	[3046, 3047]	3754	[5751, 5025]	5777	[3274, 3133]	7800	[7742, 7518]
1732	[3048, 3049]	3755	[5752, 507]	5778	[6822, 7405]	7801	[1496, 463]
1733	[2902, 3050]	3756	[2316, 2371]	5779	[4071, 1691]	7802	[258, 89]
1734	[3051, 3052]	3757	[5075, 560]	5780	[1013, 3403]	7803	[3411, 1695]
1735	[3053, 1882]	3758	[5753, 5754]	5781	[3441, 7223]	7804	[1186, 3798]
1736	[3054, 3055]	3759	[2233, 5755]	5782	[7062, 4530]	7805	[421, 7681]
1737	[2065, 3056]	3760	[5756, 5757]	5783	[1532, 6905]	7806	[6772, 3848]
1738	[3057, 3058]	3761	[895, 5758]	5784	[995, 3774]	7807	[1484, 4829]
1739	[3059, 3060]	3762	[5482, 5759]	5785	[7406, 4471]	7808	[8061, 1228]
1740	[3061, 1421]	3763	[5760, 5761]	5786	[7082, 7407]	7809	[4803, 431]
1741	[3062, 444]	3764	[5762, 5763]	5787	[3364, 4777]	7810	[4625, 7735]
1742	[3063, 3064]	3765	[5385, 2820]	5788	[3950, 7408]	7811	[7457, 7741]
1743	[3065, 3066]	3766	[613, 5764]	5789	[3739, 7053]	7812	[964, 8062]

1744	[1313, 3067]	3767	[2870, 5765]	5790	[7409, 4307]	7813	[6692, 3727]
1745	[3068, 3069]	3768	[5766, 1925]	5791	[4640, 7410]	7814	[7473, 1495]
1746	[3070, 3071]	3769	[5287, 5767]	5792	[3850, 6958]	7815	[7714, 85]
1747	[3072, 3073]	3770	[5768, 5769]	5793	[7411, 1497]	7816	[3792, 7744]
1748	[3074, 1403]	3771	[5770, 5771]	5794	[3217, 3401]	7817	[1328, 4751]
1749	[3075, 3076]	3772	[5772, 5773]	5795	[7412, 3580]	7818	[6747, 7344]
1750	[3077, 955]	3773	[5562, 2244]	5796	[1402, 388]	7819	[7423, 1187]
1751	[3078, 3079]	3774	[1849, 5774]	5797	[4821, 3254]	7820	[4608, 6967]
1752	[3080, 3081]	3775	[1851, 5775]	5798	[1247, 6871]	7821	[7528, 4831]
1753	[3082, 3083]	3776	[5776, 2911]	5799	[7413, 3832]	7822	[7584, 4630]
1754	[3084, 3085]	3777	[5442, 5777]	5800	[3451, 4011]	7823	[3728, 7738]
1755	[3086, 3087]	3778	[5005, 5778]	5801	[7414, 420]	7824	[3493, 7658]
1756	[3088, 3089]	3779	[2662, 5779]	5802	[7415, 1572]	7825	[7760, 4418]
1757	[3090, 3091]	3780	[5780, 2614]	5803	[7416, 7417]	7826	[8063, 3829]
1758	[3092, 3093]	3781	[5781, 5440]	5804	[4237, 7418]	7827	[3198, 1180]
1759	[3094, 3095]	3782	[5782, 5783]	5805	[4239, 3807]	7828	[1612, 7235]
1760	[3096, 1568]	3783	[2649, 5568]	5806	[7419, 3444]	7829	[7463, 7729]
1761	[3097, 3098]	3784	[5784, 5076]	5807	[7420, 7129]	7830	[4207, 1145]
1762	[3099, 3100]	3785	[5327, 5785]	5808	[4110, 7421]	7831	[7477, 4006]
1763	[3101, 3102]	3786	[5786, 5787]	5809	[7422, 3412]	7832	[6864, 8061]
1764	[3103, 3104]	3787	[5788, 5789]	5810	[4380, 4269]	7833	[7307, 7748]
1765	[3105, 3106]	3788	[5790, 5791]	5811	[6838, 7423]	7834	[7750, 3740]
1766	[3107, 3108]	3789	[5792, 1740]	5812	[1214, 4654]	7835	[8062, 6726]
1767	[3109, 3110]	3790	[5793, 5794]	5813	[4712, 996]	7836	[3420, 7154]
1768	[3111, 3109]	3791	[5795, 5796]	5814	[7424, 998]	7837	[3955, 4589]
1769	[3112, 3113]	3792	[5797, 5798]	5815	[1007, 3248]	7838	[1429, 7252]
1770	[3114, 3115]	3793	[5799, 5800]	5816	[7425, 1165]	7839	[7151, 7061]
1771	[3116, 3117]	3794	[5801, 5802]	5817	[1282, 7426]	7840	[4278, 8064]
1772	[3118, 3119]	3795	[2295, 5803]	5818	[4332, 7427]	7841	[4236, 8065]
1773	[3120, 1002]	3796	[5804, 5805]	5819	[7428, 116]	7842	[7712, 4356]
1774	[3121, 3122]	3797	[5806, 5807]	5820	[7429, 6731]	7843	[4774, 7755]
1775	[3123, 3124]	3798	[5808, 5809]	5821	[7362, 7430]	7844	[6826, 3400]
1776	[3125, 3126]	3799	[5810, 5811]	5822	[4124, 7431]	7845	[6953, 7378]
1777	[3127, 3128]	3800	[141, 5812]	5823	[7432, 4709]	7846	[4100, 7585]
1778	[3129, 3130]	3801	[5813, 5814]	5824	[7433, 7434]	7847	[7215, 4364]
1779	[3131, 3132]	3802	[5815, 2300]	5825	[4095, 7435]	7848	[3483, 4628]
1780	[3133, 3134]	3803	[5054, 3044]	5826	[3919, 6767]	7849	[7583, 7383]
1781	[3135, 3136]	3804	[5816, 5000]	5827	[7436, 1254]	7850	[8066, 1436]
1782	[3137, 3138]	3805	[5817, 5818]	5828	[7437, 3886]	7851	[3407, 6714]
1783	[3139, 1287]	3806	[801, 5212]	5829	[6900, 3304]	7852	[4842, 6868]
1784	[1093, 3140]	3807	[5819, 57]	5830	[7438, 3524]	7853	[7055, 1054]
1785	[1124, 3141]	3808	[2135, 61]	5831	[7439, 7106]	7854	[7766, 7601]
1786	[1536, 1554]	3809	[5820, 5821]	5832	[7440, 7003]	7855	[6954, 7018]
1787	[1713, 1291]	3810	[5822, 5823]	5833	[1080, 6806]	7856	[7558, 6761]

1788	[3142, 3143]	3811	[5824, 5703]	5834	[3498, 4389]	7857	[7730, 7333]
1789	[3144, 3145]	3812	[2420, 5825]	5835	[3543, 3339]	7858	[7696, 7726]
1790	[3146, 3147]	3813	[2757, 5247]	5836	[1520, 1123]	7859	[4466, 7537]
1791	[1424, 3148]	3814	[5500, 5826]	5837	[4300, 7441]	7860	[6725, 7020]
1792	[92, 1427]	3815	[5827, 661]	5838	[3329, 6965]	7861	[1116, 7021]
1793	[3149, 3150]	3816	[5828, 5829]	5839	[4253, 7442]	7862	[7064, 8058]
1794	[3151, 3152]	3817	[5387, 2684]	5840	[7443, 7444]	7863	[8067, 7697]
1795	[3153, 3154]	3818	[2873, 5830]	5841	[7140, 7008]	7864	[4621, 7403]
1796	[3155, 988]	3819	[5831, 5832]	5842	[7445, 3365]	7865	[3800, 8068]
1797	[3156, 3157]	3820	[5833, 2828]	5843	[7158, 7446]	7866	[7582, 7416]
1798	[3158, 3159]	3821	[5834, 5295]	5844	[985, 7447]	7867	[8069, 1708]
1799	[3160, 3161]	3822	[5835, 5836]	5845	[7289, 3916]	7868	[7441, 4420]
1800	[1036, 3162]	3823	[5837, 5838]	5846	[7448, 7449]	7869	[4614, 3894]
1801	[3163, 3164]	3824	[5839, 5840]	5847	[1437, 4280]	7870	[6752, 994]
1802	[466, 3165]	3825	[2817, 4875]	5848	[7358, 7450]	7871	[7161, 284]
1803	[3166, 3167]	3826	[2229, 227]	5849	[4612, 4096]	7872	[7442, 3682]
1804	[3168, 3169]	3827	[5841, 5842]	5850	[7451, 7452]	7873	[7373, 3784]
1805	[3170, 3171]	3828	[1761, 5843]	5851	[3184, 3508]	7874	[3622, 3428]
1806	[3172, 3173]	3829	[707, 5844]	5852	[4402, 7065]	7875	[7179, 7475]
1807	[3174, 961]	3830	[5845, 2281]	5853	[478, 7453]	7876	[7434, 4635]
1808	[3175, 3176]	3831	[2437, 5846]	5854	[3286, 7076]	7877	[7564, 7376]
1809	[3177, 3178]	3832	[5847, 5848]	5855	[7454, 7455]	7878	[7404, 1360]
1810	[3179, 3180]	3833	[5849, 5850]	5856	[1510, 4733]	7879	[7240, 7170]
1811	[3181, 3182]	3834	[1816, 2503]	5857	[1478, 6753]	7880	[7745, 7134]
1812	[3183, 3184]	3835	[1892, 2915]	5858	[7456, 7457]	7881	[1232, 3731]
1813	[3185, 3186]	3836	[5851, 5852]	5859	[7458, 7454]	7882	[7631, 4441]
1814	[3187, 3188]	3837	[5789, 5853]	5860	[7418, 7459]	7883	[7421, 3704]
1815	[3189, 3190]	3838	[5854, 667]	5861	[3777, 7460]	7884	[4117, 7606]
1816	[3191, 411]	3839	[5855, 5391]	5862	[1573, 3306]	7885	[7762, 8070]
1817	[1684, 3192]	3840	[803, 5856]	5863	[7035, 7461]	7886	[6873, 7367]
1818	[3193, 3194]	3841	[5857, 488]	5864	[7462, 4043]	7887	[7683, 7663]
1819	[3195, 3196]	3842	[5858, 5859]	5865	[7431, 7463]	7888	[7654, 3223]
1820	[3197, 3198]	3843	[5860, 5861]	5866	[7464, 4361]	7889	[3770, 4850]
1821	[3199, 3200]	3844	[5862, 1878]	5867	[3891, 1440]	7890	[1654, 7547]
1822	[3201, 3202]	3845	[62, 5863]	5868	[3406, 4051]	7891	[8071, 8069]
1823	[3203, 3204]	3846	[2706, 5864]	5869	[7205, 7465]	7892	[3717, 3760]
1824	[3205, 3206]	3847	[5865, 5866]	5870	[7466, 7467]	7893	[1526, 7532]
1825	[3207, 3208]	3848	[5867, 762]	5871	[317, 6961]	7894	[7656, 7700]
1826	[3209, 3210]	3849	[5868, 2550]	5872	[7468, 308]	7895	[8072, 7394]
1827	[3211, 3212]	3850	[5230, 2389]	5873	[7469, 1693]	7896	[3790, 7309]
1828	[3213, 3214]	3851	[623, 5768]	5874	[7470, 4204]	7897	[7171, 4692]
1829	[3215, 1257]	3852	[5080, 2858]	5875	[461, 7471]	7898	[7751, 6812]
1830	[3216, 3217]	3853	[5869, 5870]	5876	[7472, 7473]	7899	[3307, 1527]
1831	[452, 3218]	3854	[5775, 1891]	5877	[7474, 4743]	7900	[4393, 8073]

1832	[3219, 3220]	3855	[5633, 5049]	5878	[4872, 3922]	7901	[7504, 7764]
1833	[3221, 3222]	3856	[5871, 2262]	5879	[3984, 4776]	7902	[4547, 7363]
1834	[3223, 3224]	3857	[5872, 5873]	5880	[1561, 4369]	7903	[7554, 1588]
1835	[3225, 3226]	3858	[5874, 2160]	5881	[7475, 4510]	7904	[8074, 1419]
1836	[1512, 3227]	3859	[5875, 5876]	5882	[4201, 7438]	7905	[3913, 7754]
1837	[3228, 3229]	3860	[2043, 5629]	5883	[4836, 3273]	7906	[7345, 1012]
1838	[3230, 3231]	3861	[5877, 2936]	5884	[4306, 1728]	7907	[3300, 4413]
1839	[3232, 3233]	3862	[5878, 5879]	5885	[3288, 6893]	7908	[8064, 7489]
1840	[3234, 3235]	3863	[5880, 2748]	5886	[7476, 7477]	7909	[3681, 4814]
1841	[3236, 3237]	3864	[5405, 5881]	5887	[3545, 7478]	7910	[7757, 73]
1842	[3238, 3239]	3865	[3006, 5882]	5888	[303, 7479]	7911	[8075, 8076]
1843	[3240, 3241]	3866	[5883, 5091]	5889	[4209, 6929]	7912	[7300, 7679]
1844	[3242, 3243]	3867	[5740, 5884]	5890	[7480, 7123]	7913	[1167, 7399]
1845	[377, 3244]	3868	[1863, 5885]	5891	[7385, 4312]	7914	[7717, 7611]
1846	[3245, 3246]	3869	[5235, 1768]	5892	[4273, 7114]	7915	[7651, 8075]
1847	[1468, 3247]	3870	[5886, 5887]	5893	[4433, 7481]	7916	[4852, 4871]
1848	[3248, 3249]	3871	[5888, 2253]	5894	[4690, 4522]	7917	[4244, 7436]
1849	[3250, 3251]	3872	[2613, 2365]	5895	[4723, 1600]	7918	[8068, 4826]
1850	[3252, 3253]	3873	[498, 5889]	5896	[6924, 4477]	7919	[7734, 6878]
1851	[3254, 3255]	3874	[5890, 5891]	5897	[4421, 7327]	7920	[4537, 4451]
1852	[3256, 3257]	3875	[5892, 2584]	5898	[7482, 7483]	7921	[1042, 7251]
1853	[3258, 3259]	3876	[2955, 877]	5899	[7471, 7484]	7922	[7230, 1219]
1854	[3260, 3261]	3877	[5893, 5894]	5900	[3833, 3751]	7923	[7736, 7470]
1855	[3262, 3263]	3878	[2999, 5895]	5901	[7485, 7126]	7924	[7491, 7575]
1856	[3083, 3264]	3879	[5896, 5897]	5902	[7486, 4245]	7925	[7201, 7752]
1857	[3265, 3266]	3880	[5608, 5019]	5903	[7487, 7488]	7926	[4503, 3455]
1858	[3267, 3268]	3881	[2675, 2486]	5904	[7489, 3448]	7927	[7682, 7763]
1859	[3269, 3270]	3882	[5898, 2404]	5905	[3571, 6768]	7928	[7701, 3322]
1860	[3271, 3272]	3883	[696, 5125]	5906	[4115, 4118]	7929	[7694, 974]
1861	[3273, 3274]	3884	[2245, 5899]	5907	[7490, 3602]	7930	[7756, 7313]
1862	[3275, 3276]	3885	[5900, 5901]	5908	[7088, 7491]	7931	[410, 7749]
1863	[3277, 3278]	3886	[5902, 2527]	5909	[4506, 7492]	7932	[125, 7023]
1864	[3279, 3280]	3887	[5903, 5904]	5910	[7493, 7494]	7933	[361, 7468]
1865	[3281, 3282]	3888	[2359, 5905]	5911	[4039, 3904]	7934	[3816, 7523]
1866	[3283, 3284]	3889	[2907, 5746]	5912	[7495, 3092]	7935	[4629, 3604]
1867	[3285, 3286]	3890	[5906, 5907]	5913	[7496, 1558]	7936	[7507, 1438]
1868	[3287, 3288]	3891	[5411, 2616]	5914	[3636, 7180]	7937	[7347, 7357]
1869	[3289, 3290]	3892	[4981, 5908]	5915	[7497, 3840]	7938	[3194, 7733]
1870	[3291, 3292]	3893	[5909, 5910]	5916	[1707, 1668]	7939	[3523, 3742]
1871	[3293, 982]	3894	[526, 5142]	5917	[7255, 7247]	7940	[7304, 3367]
1872	[3294, 3295]	3895	[5911, 5912]	5918	[1718, 3296]	7941	[3927, 3804]
1873	[3296, 3297]	3896	[5913, 828]	5919	[7498, 3718]	7942	[4414, 7526]
1874	[3298, 376]	3897	[4962, 5770]	5920	[7499, 7500]	7943	[3336, 7753]
1875	[3299, 3300]	3898	[1870, 2225]	5921	[6721, 4182]	7944	[4445, 7510]

1876	[3301, 3302]	3899	[5779, 5914]	5922	[3801, 7501]	7945	[4714, 7619]
1877	[1104, 3303]	3900	[2155, 5460]	5923	[324, 4687]	7946	[6897, 4365]
1878	[3304, 3305]	3901	[5606, 5012]	5924	[356, 3497]	7947	[7074, 7331]
1879	[3306, 3307]	3902	[5915, 1805]	5925	[4066, 7502]	7948	[7527, 3635]
1880	[3308, 3309]	3903	[2133, 614]	5926	[3584, 1246]	7949	[4423, 3592]
1881	[321, 3310]	3904	[5916, 5917]	5927	[4660, 4673]	7950	[4499, 7474]
1882	[3311, 118]	3905	[5918, 5742]	5928	[7503, 7504]	7951	[7724, 8059]
1883	[3312, 3313]	3906	[1872, 5919]	5929	[7505, 7369]	7952	[7379, 8077]
1884	[3314, 3315]	3907	[5920, 5921]	5930	[7332, 7233]	7953	[3295, 3719]
1885	[3316, 3317]	3908	[3049, 2015]	5931	[7506, 7361]	7954	[4726, 7084]
1886	[3318, 3319]	3909	[2265, 5922]	5932	[7278, 7506]	7955	[7011, 4275]
1887	[3320, 3321]	3910	[5923, 5924]	5933	[3140, 7246]	7956	[7386, 4055]
1888	[3322, 3323]	3911	[5349, 879]	5934	[7169, 1513]	7957	[4129, 7592]
1889	[3324, 3325]	3912	[5870, 5925]	5935	[7452, 7507]	7958	[7625, 8078]
1890	[3326, 3327]	3913	[5926, 657]	5936	[4241, 4765]	7959	[954, 3678]
1891	[3328, 3329]	3914	[5927, 5928]	5937	[7508, 7509]	7960	[7568, 4620]
1892	[3330, 3331]	3915	[5929, 5697]	5938	[7045, 479]	7961	[7142, 3185]
1893	[1326, 3332]	3916	[5930, 5931]	5939	[7141, 7505]	7962	[7659, 3314]
1894	[3333, 3334]	3917	[5932, 5933]	5940	[3970, 6820]	7963	[6732, 1276]
1895	[3335, 1629]	3918	[2581, 4967]	5941	[7510, 1627]	7964	[7574, 7000]
1896	[397, 3336]	3919	[5934, 5935]	5942	[7511, 7238]	7965	[4775, 8063]
1897	[3337, 3338]	3920	[2522, 5804]	5943	[1150, 3265]	7966	[252, 7377]
1898	[3339, 3340]	3921	[2525, 5936]	5944	[1159, 4729]	7967	[7732, 8067]
1899	[1315, 3341]	3922	[2058, 5360]	5945	[1444, 4648]	7968	[7634, 7644]
1900	[1736, 3342]	3923	[5937, 5378]	5946	[7512, 6824]	7969	[3542, 4835]
1901	[3343, 3344]	3924	[5938, 5939]	5947	[6944, 3216]	7970	[8079, 4078]
1902	[1206, 949]	3925	[5737, 4991]	5948	[3413, 7513]	7971	[7217, 7655]
1903	[3345, 3346]	3926	[5940, 5816]	5949	[4815, 3457]	7972	[8065, 7743]
1904	[387, 3347]	3927	[5941, 776]	5950	[7514, 4713]	7973	[7195, 4235]
1905	[3348, 3349]	3928	[2107, 2908]	5951	[1575, 1064]	7974	[4131, 3228]
1906	[3350, 948]	3929	[2539, 5623]	5952	[7515, 7516]	7975	[3570, 7192]
1907	[3351, 3352]	3930	[5778, 5942]	5953	[7354, 7517]	7976	[7033, 3330]
1908	[3353, 3354]	3931	[628, 4969]	5954	[4164, 7429]	7977	[4168, 6922]
1909	[3355, 3356]	3932	[5943, 2519]	5955	[399, 3467]	7978	[8073, 7765]
1910	[3357, 3358]	3933	[1894, 5538]	5956	[7518, 1157]	7979	[8060, 7437]
1911	[1439, 3359]	3934	[5944, 2326]	5957	[4558, 1000]	7980	[7593, 7220]
1912	[3360, 3361]	3935	[2427, 5512]	5958	[6948, 7519]	7981	[3554, 1211]
1913	[3362, 1342]	3936	[5945, 5946]	5959	[4442, 7288]	7982	[7297, 7708]
1914	[3363, 3364]	3937	[5947, 5948]	5960	[4437, 7078]	7983	[7716, 7620]
1915	[3365, 3366]	3938	[5949, 5504]	5961	[7520, 7072]	7984	[4840, 3948]
1916	[3367, 3368]	3939	[5043, 2363]	5962	[1577, 1025]	7985	[4417, 409]
1917	[3369, 3370]	3940	[5950, 5951]	5963	[7521, 7522]	7986	[7430, 1618]
1918	[3371, 3372]	3941	[5166, 5952]	5964	[3685, 7216]	7987	[3372, 1386]
1919	[1548, 3373]	3942	[5567, 5408]	5965	[7523, 7218]	7988	[7176, 7301]

1920	[3374, 3375]	3943	[2636, 5953]	5966	[4153, 4866]	7989	[7719, 4032]
1921	[3130, 3376]	3944	[5954, 5955]	5967	[6845, 7515]	7990	[8078, 8066]
1922	[3377, 3378]	3945	[5956, 5957]	5968	[7524, 6936]	7991	[4127, 1592]
1923	[3379, 3380]	3946	[2572, 5958]	5969	[3552, 3490]	7992	[7199, 3557]
1924	[1198, 3381]	3947	[2683, 5959]	5970	[4468, 3965]	7993	[4176, 3713]
1925	[3382, 1697]	3948	[1879, 5960]	5971	[3613, 3517]	7994	[7598, 1646]
1926	[3383, 112]	3949	[5635, 2019]	5972	[4086, 7299]	7995	[7543, 4215]
1927	[3384, 3385]	3950	[2916, 5961]	5973	[4065, 7525]	7996	[1369, 4574]
1928	[3386, 3387]	3951	[5684, 5031]	5974	[4619, 7472]	7997	[1466, 4715]
1929	[3388, 3389]	3952	[5962, 5963]	5975	[7526, 1407]	7998	[4284, 4460]
1930	[3390, 3391]	3953	[4874, 864]	5976	[3929, 7527]	7999	[7596, 3156]
1931	[3392, 3393]	3954	[5227, 728]	5977	[3060, 1586]	8000	[7444, 7706]
1932	[3394, 3395]	3955	[5964, 5965]	5978	[6910, 4496]	8001	[7410, 110]
1933	[3396, 3397]	3956	[5966, 690]	5979	[6963, 7528]	8002	[1361, 7740]
1934	[3398, 3399]	3957	[5967, 5455]	5980	[3544, 7382]	8003	[4378, 7590]
1935	[3400, 320]	3958	[5478, 5860]	5981	[7131, 1310]	8004	[7722, 7661]
1936	[3401, 3402]	3959	[5968, 5969]	5982	[6740, 6698]	8005	[423, 7715]
1937	[3403, 3404]	3960	[5970, 5098]	5983	[7494, 3318]	8006	[7111, 7168]
1938	[3405, 3406]	3961	[5008, 5971]	5984	[4384, 4610]	8007	[7677, 7276]
1939	[1546, 3407]	3962	[5972, 5973]	5985	[3244, 7529]	8008	[3247, 7511]
1940	[3408, 3409]	3963	[5901, 5974]	5986	[3921, 1471]	8009	[6749, 4671]
1941	[3410, 3411]	3964	[2128, 5047]	5987	[7530, 7531]	8010	[4072, 7581]
1942	[3412, 3413]	3965	[1770, 688]	5988	[6702, 270]	8011	[1048, 1316]
1943	[3414, 3415]	3966	[232, 5975]	5989	[1138, 1037]	8012	[6710, 7567]
1944	[3416, 1078]	3967	[874, 5707]	5990	[7532, 97]	8013	[4042, 7608]
1945	[3417, 3418]	3968	[2294, 5976]	5991	[3698, 3931]	8014	[6759, 3827]
1946	[3419, 3420]	3969	[5977, 5978]	5992	[3621, 7387]	8015	[1435, 7292]
1947	[3421, 3422]	3970	[5979, 5980]	5993	[7533, 1576]	8016	[1279, 1062]
1948	[3423, 1378]	3971	[5981, 693]	5994	[1688, 1580]	8017	[1389, 7508]
1949	[408, 3396]	3972	[4922, 5982]	5995	[3549, 7534]	8018	[4631, 8071]
1950	[3381, 3424]	3973	[2642, 5983]	5996	[4339, 7535]	8019	[4633, 6853]
1951	[3425, 1060]	3974	[5984, 5985]	5997	[7400, 7026]	8020	[7408, 6854]
1952	[3426, 3427]	3975	[547, 5986]	5998	[4531, 1128]	8021	[4036, 7135]
1953	[3428, 3429]	3976	[5474, 5987]	5999	[4409, 3172]	8022	[7675, 3144]
1954	[3430, 3431]	3977	[5852, 1955]	6000	[3358, 7536]	8023	[7627, 3767]
1955	[3432, 3433]	3978	[5126, 1794]	6001	[4234, 6833]	8024	[7561, 8079]
1956	[3434, 3435]	3979	[4886, 5988]	6002	[7537, 6727]	8025	[6708, 8072]
1957	[3436, 3088]	3980	[798, 490]	6003	[4578, 7440]	8026	[66, 7687]
1958	[3437, 1388]	3981	[597, 5989]	6004	[7538, 6830]	8027	[7587, 7050]
1959	[3115, 3438]	3982	[5990, 47]	6005	[7203, 7539]	8028	[7143, 3956]
1960	[3439, 1027]	3983	[2914, 5991]	6006	[4326, 7540]	8029	[1069, 7219]
1961	[3440, 3441]	3984	[5992, 806]	6007	[7541, 4257]	8030	[1204, 1506]
1962	[3442, 3443]	3985	[5993, 838]	6008	[1352, 3193]	8031	[1290, 3416]
1963	[3444, 75]	3986	[5994, 840]	6009	[4317, 7308]	8032	[7650, 3627]

1964	[373, 3445]	3987	[5800, 2352]	6010	[1453, 7542]	8033	[4749, 7541]
1965	[3446, 3447]	3988	[5879, 2974]	6011	[3895, 276]	8034	[8077, 8080]
1966	[3448, 3449]	3989	[5995, 179]	6012	[273, 7543]	8035	[3376, 4093]
1967	[3450, 3451]	3990	[5996, 3027]	6013	[7435, 4719]	8036	[1176, 7728]
1968	[3452, 3453]	3991	[4935, 5997]	6014	[337, 7544]	8037	[1303, 7040]
1969	[1476, 3454]	3992	[2799, 5998]	6015	[7545, 4689]	8038	[3632, 3531]
1970	[3455, 3456]	3993	[2651, 5999]	6016	[3319, 6778]	8039	[7636, 7272]
1971	[3457, 3458]	3994	[5273, 6000]	6017	[7546, 1125]	8040	[4679, 7642]
1972	[3459, 3460]	3995	[2384, 2868]	6018	[6836, 1280]	8041	[7685, 4458]
1973	[3461, 3462]	3996	[6001, 6002]	6019	[7034, 4283]	8042	[1046, 7225]
1974	[1408, 3463]	3997	[6003, 5916]	6020	[7166, 1094]	8043	[7450, 346]
1975	[3464, 3465]	3998	[6004, 6005]	6021	[3093, 3972]	8044	[8070, 7704]
1976	[3171, 3466]	3999	[6006, 6007]	6022	[4450, 4549]	8045	[6758, 6754]
1977	[3467, 3468]	4000	[5693, 5520]	6023	[7426, 3888]	8046	[7720, 1102]
1978	[117, 3469]	4001	[6008, 6009]	6024	[7547, 4400]	8047	[8076, 3191]
1979	[3470, 3471]	4002	[5190, 6010]	6025	[7548, 1442]	8048	[1210, 3758]
1980	[1063, 3472]	4003	[2119, 4971]	6026	[4370, 7549]	8049	[1652, 8074]
1981	[3473, 3474]	4004	[2935, 2361]	6027	[4718, 1183]	8050	[8080, 7256]
1982	[3475, 3476]	4005	[5939, 247]	6028	[7283, 4029]	8051	[958, 1700]
1983	[3477, 3478]	4006	[6011, 6012]	6029	[4553, 7550]	8052	[7586, 7609]
1984	[1001, 3479]	4007	[6013, 5531]	6030	[1682, 7244]	8053	[3402, 7046]
1985	[1266, 3480]	4008	[6014, 6015]	6031	[4870, 7551]	8054	[7692, 7037]
1986	[3481, 1133]	4009	[6016, 6017]	6032	[7552, 1010]	8055	[7646, 3838]
1987	[3482, 3483]	4010	[6018, 2188]	6033	[7553, 7156]	8056	[4592, 7559]
1988	[3484, 3301]	4011	[5535, 6019]	6034	[6831, 7554]	8057	[8081, 1885]
1989	[3485, 3486]	4012	[5415, 6020]	6035	[7555, 7425]	8058	[1899, 6515]
1990	[3487, 3488]	4013	[2485, 2509]	6036	[6776, 3651]	8059	[7910, 5124]
1991	[3327, 3489]	4014	[6021, 6022]	6037	[7296, 7409]	8060	[2510, 8028]
1992	[3490, 3491]	4015	[5895, 5563]	6038	[7200, 4584]	8061	[7869, 2266]
1993	[3492, 1467]	4016	[5818, 6023]	6039	[3264, 4373]	8062	[6022, 2769]
1994	[3449, 3493]	4017	[6024, 6025]	6040	[1311, 7514]	8063	[7812, 8040]
1995	[3494, 1289]	4018	[2622, 6026]	6041	[7556, 7557]	8064	[5258, 7946]
1996	[3495, 3496]	4019	[5239, 3000]	6042	[7346, 7558]	8065	[5876, 7963]
1997	[3497, 3498]	4020	[5276, 5599]	6043	[7559, 7560]	8066	[850, 6208]
1998	[3499, 1376]	4021	[5389, 6027]	6044	[4056, 7270]	8067	[6661, 8034]
1999	[3500, 3501]	4022	[6028, 5611]	6045	[6863, 7122]	8068	[5296, 7918]
2000	[3502, 3503]	4023	[2774, 6029]	6046	[6790, 3641]	8069	[6538, 736]
2001	[3504, 1033]	4024	[6010, 6030]	6047	[3558, 4483]	8070	[2583, 8055]
2002	[3505, 3506]	4025	[6031, 5033]	6048	[1656, 7127]	8071	[6537, 3018]
2003	[1190, 3507]	4026	[6032, 636]	6049	[7516, 3256]	8072	[2840, 8018]
2004	[3508, 3509]	4027	[6033, 2808]	6050	[7542, 7561]	8073	[5268, 8056]
2005	[1703, 3510]	4028	[6034, 6035]	6051	[7447, 1014]	8074	[2939, 2580]
2006	[3511, 3512]	4029	[3005, 5714]	6052	[4609, 7545]	8075	[5866, 7829]
2007	[3513, 3514]	4030	[6036, 1780]	6053	[3889, 6801]	8076	[5925, 8047]

2008	[3515, 3516]	4031	[2576, 6037]	6054	[4429, 7562]	8077	[8014, 5835]
2009	[3517, 3518]	4032	[6038, 5543]	6055	[3988, 1278]	8078	[5914, 8006]
2010	[3519, 3520]	4033	[1857, 6039]	6056	[1030, 3155]	8079	[6241, 6081]
2011	[391, 3521]	4034	[4999, 2515]	6057	[7007, 7563]	8080	[685, 7985]
2012	[3522, 3523]	4035	[5492, 6040]	6058	[7350, 7564]	8081	[8082, 3318]
2013	[3524, 3201]	4036	[6041, 6042]	6059	[4386, 1168]	8082	[8083, 5243]
2014	[3280, 3525]	4037	[5108, 5996]	6060	[4136, 3791]	8083	[8084, 257]
2015	[1193, 1343]	4038	[6005, 5014]	6061	[4742, 4375]	8084	[8085, 5957]
2016	[1242, 3526]	4039	[6043, 6044]	6062	[7565, 7566]	8085	[8086, 377]
2017	[3415, 3494]	4040	[2694, 2851]	6063	[7567, 1374]	8086	[8087, 5138]
2018	[3527, 3528]	4041	[6045, 5561]	6064	[104, 7568]	8087	[8088, 6958]
2019	[3136, 3529]	4042	[4976, 6046]	6065	[4452, 4771]	8088	[1, 1953]
2020	[3530, 262]	4043	[6047, 2186]	6066	[945, 4816]		
2021	[3531, 1423]	4044	[6048, 6049]	6067	[1106, 7485]		
2022	[3532, 3533]	4045	[6050, 203]	6068	[4053, 4744]		

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	1349	0	2698	1	4047	1	5396	0	6745	0
1	0	1350	1	2699	1	4048	0	5397	1	6746	1
2	0	1351	0	2700	0	4049	0	5398	1	6747	1
3	0	1352	1	2701	0	4050	1	5399	0	6748	0
4	0	1353	1	2702	0	4051	1	5400	1	6749	0
5	0	1354	0	2703	1	4052	0	5401	0	6750	0
6	1	1355	0	2704	1	4053	0	5402	0	6751	1
7	0	1356	0	2705	1	4054	1	5403	0	6752	1
8	1	1357	1	2706	0	4055	0	5404	1	6753	0
9	0	1358	0	2707	1	4056	0	5405	0	6754	1
10	0	1359	0	2708	1	4057	0	5406	0	6755	0
11	0	1360	1	2709	0	4058	1	5407	0	6756	0
12	1	1361	0	2710	1	4059	1	5408	0	6757	1
13	1	1362	0	2711	0	4060	1	5409	0	6758	1
14	1	1363	0	2712	0	4061	1	5410	1	6759	1
15	0	1364	1	2713	0	4062	0	5411	0	6760	1
16	0	1365	0	2714	0	4063	0	5412	1	6761	1
17	1	1366	0	2715	1	4064	0	5413	0	6762	1
18	0	1367	0	2716	0	4065	1	5414	0	6763	0
19	0	1368	1	2717	1	4066	0	5415	0	6764	0
20	1	1369	1	2718	1	4067	1	5416	0	6765	1
21	0	1370	0	2719	0	4068	1	5417	0	6766	0
22	0	1371	1	2720	0	4069	0	5418	0	6767	0
23	0	1372	1	2721	0	4070	0	5419	1	6768	1
24	0	1373	0	2722	0	4071	1	5420	1	6769	0
25	1	1374	0	2723	0	4072	0	5421	1	6770	0

26	0	1375	0	2724	0	4073	0	5422	1	6771	1
27	1	1376	1	2725	0	4074	0	5423	1	6772	1
28	0	1377	1	2726	0	4075	0	5424	0	6773	1
29	1	1378	0	2727	0	4076	1	5425	0	6774	0
30	1	1379	1	2728	0	4077	0	5426	1	6775	1
31	0	1380	1	2729	1	4078	0	5427	0	6776	1
32	0	1381	1	2730	1	4079	1	5428	0	6777	1
33	0	1382	0	2731	1	4080	1	5429	1	6778	0
34	1	1383	1	2732	0	4081	0	5430	1	6779	1
35	1	1384	0	2733	1	4082	1	5431	0	6780	0
36	0	1385	1	2734	1	4083	0	5432	1	6781	0
37	0	1386	0	2735	1	4084	1	5433	1	6782	1
38	0	1387	1	2736	0	4085	1	5434	0	6783	0
39	0	1388	1	2737	1	4086	1	5435	0	6784	1
40	1	1389	1	2738	0	4087	1	5436	0	6785	0
41	1	1390	0	2739	1	4088	1	5437	1	6786	0
42	0	1391	0	2740	1	4089	1	5438	1	6787	1
43	0	1392	1	2741	1	4090	1	5439	0	6788	0
44	1	1393	0	2742	1	4091	1	5440	1	6789	0
45	0	1394	0	2743	0	4092	0	5441	1	6790	1
46	0	1395	1	2744	1	4093	1	5442	1	6791	1
47	0	1396	0	2745	1	4094	0	5443	1	6792	1
48	1	1397	1	2746	1	4095	0	5444	0	6793	0
49	0	1398	0	2747	0	4096	1	5445	0	6794	0
50	1	1399	0	2748	1	4097	0	5446	0	6795	1
51	1	1400	0	2749	0	4098	0	5447	1	6796	0
52	1	1401	0	2750	0	4099	0	5448	0	6797	1
53	0	1402	1	2751	1	4100	0	5449	0	6798	0
54	0	1403	1	2752	0	4101	0	5450	1	6799	0
55	1	1404	0	2753	1	4102	1	5451	0	6800	0
56	0	1405	0	2754	0	4103	0	5452	0	6801	1
57	0	1406	1	2755	1	4104	1	5453	1	6802	1
58	0	1407	0	2756	0	4105	0	5454	0	6803	1
59	1	1408	1	2757	1	4106	1	5455	1	6804	1
60	1	1409	1	2758	1	4107	0	5456	1	6805	1
61	1	1410	1	2759	1	4108	0	5457	0	6806	0
62	0	1411	1	2760	1	4109	0	5458	0	6807	0
63	0	1412	0	2761	1	4110	0	5459	0	6808	0
64	0	1413	0	2762	0	4111	0	5460	0	6809	0
65	0	1414	0	2763	0	4112	0	5461	1	6810	0
66	0	1415	1	2764	1	4113	0	5462	1	6811	1
67	0	1416	1	2765	1	4114	1	5463	1	6812	1
68	1	1417	1	2766	1	4115	0	5464	0	6813	1
69	1	1418	0	2767	0	4116	0	5465	1	6814	1

70	0	1419	0	2768	0	4117	0	5466	0	6815	0
71	1	1420	0	2769	1	4118	1	5467	1	6816	0
72	1	1421	1	2770	1	4119	1	5468	1	6817	1
73	0	1422	0	2771	1	4120	0	5469	0	6818	1
74	0	1423	0	2772	0	4121	1	5470	0	6819	1
75	0	1424	0	2773	0	4122	0	5471	0	6820	1
76	0	1425	0	2774	0	4123	0	5472	0	6821	1
77	0	1426	0	2775	0	4124	1	5473	1	6822	0
78	0	1427	1	2776	1	4125	0	5474	1	6823	0
79	0	1428	0	2777	1	4126	0	5475	0	6824	1
80	0	1429	1	2778	0	4127	1	5476	0	6825	1
81	1	1430	0	2779	0	4128	1	5477	0	6826	0
82	1	1431	0	2780	1	4129	1	5478	0	6827	1
83	1	1432	1	2781	0	4130	0	5479	0	6828	1
84	1	1433	0	2782	1	4131	0	5480	0	6829	1
85	0	1434	1	2783	0	4132	1	5481	1	6830	1
86	1	1435	1	2784	0	4133	0	5482	0	6831	0
87	0	1436	1	2785	0	4134	0	5483	0	6832	0
88	1	1437	1	2786	1	4135	0	5484	1	6833	1
89	1	1438	1	2787	1	4136	1	5485	0	6834	0
90	0	1439	1	2788	1	4137	0	5486	1	6835	1
91	0	1440	1	2789	1	4138	0	5487	0	6836	1
92	1	1441	0	2790	1	4139	1	5488	1	6837	1
93	0	1442	1	2791	1	4140	1	5489	0	6838	0
94	1	1443	1	2792	0	4141	0	5490	1	6839	1
95	0	1444	1	2793	1	4142	1	5491	0	6840	1
96	1	1445	0	2794	0	4143	1	5492	1	6841	1
97	1	1446	0	2795	0	4144	1	5493	0	6842	0
98	0	1447	1	2796	1	4145	0	5494	0	6843	1
99	0	1448	0	2797	0	4146	1	5495	0	6844	1
100	0	1449	1	2798	1	4147	0	5496	0	6845	0
101	1	1450	0	2799	0	4148	0	5497	1	6846	0
102	1	1451	0	2800	1	4149	1	5498	1	6847	1
103	1	1452	1	2801	1	4150	1	5499	0	6848	1
104	1	1453	1	2802	1	4151	1	5500	0	6849	1
105	1	1454	1	2803	0	4152	1	5501	0	6850	1
106	0	1455	0	2804	0	4153	1	5502	1	6851	0
107	0	1456	1	2805	1	4154	1	5503	0	6852	1
108	0	1457	1	2806	0	4155	1	5504	1	6853	1
109	0	1458	0	2807	0	4156	0	5505	0	6854	1
110	1	1459	0	2808	1	4157	1	5506	1	6855	1
111	1	1460	0	2809	0	4158	0	5507	1	6856	0
112	0	1461	1	2810	1	4159	1	5508	0	6857	0
113	0	1462	0	2811	0	4160	1	5509	1	6858	0

114	0	1463	1	2812	1	4161	1	5510	1	6859	1
115	1	1464	0	2813	1	4162	1	5511	0	6860	0
116	0	1465	1	2814	1	4163	1	5512	0	6861	0
117	1	1466	1	2815	1	4164	1	5513	0	6862	0
118	1	1467	1	2816	0	4165	1	5514	1	6863	0
119	1	1468	1	2817	1	4166	1	5515	0	6864	1
120	1	1469	1	2818	0	4167	0	5516	1	6865	1
121	1	1470	0	2819	1	4168	1	5517	1	6866	0
122	1	1471	1	2820	0	4169	0	5518	0	6867	1
123	1	1472	0	2821	0	4170	1	5519	0	6868	1
124	0	1473	0	2822	1	4171	0	5520	0	6869	0
125	1	1474	1	2823	0	4172	1	5521	0	6870	1
126	0	1475	1	2824	0	4173	1	5522	0	6871	0
127	0	1476	1	2825	1	4174	0	5523	0	6872	1
128	0	1477	1	2826	0	4175	0	5524	0	6873	0
129	1	1478	1	2827	1	4176	1	5525	1	6874	0
130	0	1479	1	2828	0	4177	1	5526	1	6875	1
131	0	1480	1	2829	0	4178	1	5527	0	6876	0
132	0	1481	0	2830	1	4179	1	5528	0	6877	0
133	1	1482	0	2831	0	4180	0	5529	0	6878	0
134	0	1483	0	2832	1	4181	1	5530	1	6879	1
135	0	1484	1	2833	0	4182	0	5531	1	6880	0
136	1	1485	0	2834	1	4183	0	5532	0	6881	0
137	1	1486	0	2835	1	4184	0	5533	1	6882	0
138	1	1487	1	2836	0	4185	1	5534	0	6883	1
139	0	1488	0	2837	1	4186	0	5535	0	6884	1
140	0	1489	1	2838	0	4187	1	5536	1	6885	0
141	0	1490	0	2839	0	4188	0	5537	0	6886	0
142	1	1491	1	2840	0	4189	1	5538	0	6887	0
143	0	1492	0	2841	0	4190	1	5539	0	6888	1
144	1	1493	1	2842	0	4191	0	5540	0	6889	0
145	1	1494	1	2843	1	4192	1	5541	1	6890	0
146	0	1495	0	2844	0	4193	0	5542	0	6891	0
147	1	1496	0	2845	0	4194	0	5543	1	6892	1
148	0	1497	0	2846	1	4195	0	5544	0	6893	1
149	1	1498	0	2847	1	4196	1	5545	0	6894	0
150	0	1499	1	2848	0	4197	1	5546	0	6895	1
151	1	1500	1	2849	1	4198	1	5547	0	6896	1
152	0	1501	1	2850	0	4199	0	5548	1	6897	1
153	1	1502	0	2851	0	4200	1	5549	1	6898	1
154	0	1503	0	2852	1	4201	0	5550	0	6899	1
155	1	1504	0	2853	1	4202	1	5551	0	6900	0
156	0	1505	0	2854	1	4203	0	5552	0	6901	0
157	1	1506	1	2855	1	4204	0	5553	1	6902	1

158	0	1507	1	2856	1	4205	1	5554	0	6903	1
159	0	1508	0	2857	1	4206	0	5555	1	6904	1
160	0	1509	0	2858	1	4207	0	5556	1	6905	1
161	1	1510	0	2859	1	4208	1	5557	0	6906	0
162	1	1511	0	2860	0	4209	1	5558	1	6907	1
163	1	1512	0	2861	0	4210	0	5559	1	6908	1
164	1	1513	0	2862	1	4211	0	5560	1	6909	0
165	1	1514	0	2863	1	4212	0	5561	0	6910	1
166	1	1515	0	2864	0	4213	1	5562	0	6911	0
167	0	1516	1	2865	1	4214	1	5563	0	6912	0
168	1	1517	1	2866	1	4215	1	5564	1	6913	0
169	0	1518	1	2867	0	4216	1	5565	1	6914	0
170	0	1519	1	2868	1	4217	0	5566	0	6915	1
171	0	1520	0	2869	0	4218	0	5567	0	6916	1
172	1	1521	1	2870	0	4219	1	5568	0	6917	0
173	1	1522	1	2871	0	4220	1	5569	1	6918	0
174	0	1523	1	2872	0	4221	0	5570	0	6919	1
175	1	1524	1	2873	1	4222	1	5571	0	6920	0
176	1	1525	1	2874	0	4223	1	5572	0	6921	0
177	0	1526	0	2875	1	4224	0	5573	1	6922	0
178	1	1527	0	2876	1	4225	0	5574	1	6923	1
179	0	1528	0	2877	0	4226	0	5575	1	6924	1
180	1	1529	1	2878	1	4227	1	5576	1	6925	1
181	0	1530	0	2879	1	4228	0	5577	0	6926	1
182	1	1531	1	2880	1	4229	1	5578	1	6927	1
183	1	1532	1	2881	0	4230	0	5579	1	6928	1
184	1	1533	1	2882	1	4231	0	5580	0	6929	0
185	0	1534	0	2883	1	4232	1	5581	0	6930	1
186	0	1535	1	2884	1	4233	1	5582	1	6931	1
187	1	1536	0	2885	1	4234	0	5583	0	6932	1
188	0	1537	1	2886	0	4235	0	5584	0	6933	0
189	0	1538	1	2887	0	4236	1	5585	1	6934	1
190	1	1539	0	2888	1	4237	0	5586	1	6935	0
191	1	1540	0	2889	1	4238	0	5587	0	6936	0
192	1	1541	1	2890	1	4239	1	5588	1	6937	0
193	1	1542	0	2891	1	4240	0	5589	1	6938	1
194	0	1543	1	2892	1	4241	0	5590	0	6939	1
195	0	1544	0	2893	0	4242	1	5591	0	6940	0
196	0	1545	0	2894	1	4243	1	5592	0	6941	0
197	0	1546	0	2895	1	4244	1	5593	0	6942	0
198	1	1547	1	2896	0	4245	1	5594	1	6943	1
199	0	1548	1	2897	1	4246	0	5595	1	6944	0
200	0	1549	1	2898	0	4247	1	5596	1	6945	0
201	1	1550	0	2899	1	4248	1	5597	1	6946	1

202	0	1551	0	2900	0	4249	1	5598	0	6947	1
203	1	1552	0	2901	0	4250	0	5599	0	6948	0
204	0	1553	1	2902	1	4251	0	5600	1	6949	0
205	1	1554	1	2903	0	4252	0	5601	1	6950	0
206	1	1555	0	2904	0	4253	0	5602	0	6951	1
207	1	1556	1	2905	1	4254	0	5603	0	6952	0
208	0	1557	0	2906	1	4255	0	5604	0	6953	0
209	1	1558	1	2907	1	4256	0	5605	0	6954	0
210	0	1559	1	2908	0	4257	0	5606	0	6955	0
211	0	1560	0	2909	1	4258	0	5607	1	6956	1
212	1	1561	1	2910	1	4259	0	5608	1	6957	0
213	0	1562	0	2911	0	4260	1	5609	1	6958	1
214	1	1563	0	2912	1	4261	1	5610	0	6959	1
215	0	1564	0	2913	1	4262	0	5611	1	6960	1
216	1	1565	1	2914	1	4263	1	5612	1	6961	0
217	0	1566	1	2915	0	4264	1	5613	0	6962	1
218	1	1567	1	2916	1	4265	1	5614	1	6963	0
219	1	1568	0	2917	0	4266	1	5615	0	6964	0
220	1	1569	0	2918	1	4267	0	5616	0	6965	1
221	1	1570	0	2919	1	4268	1	5617	0	6966	0
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223	0	1572	0	2921	0	4270	1	5619	1	6968	0
224	0	1573	0	2922	1	4271	1	5620	1	6969	1
225	0	1574	0	2923	0	4272	0	5621	1	6970	1
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228	1	1577	1	2926	0	4275	1	5624	1	6973	0
229	1	1578	0	2927	0	4276	1	5625	0	6974	1
230	0	1579	0	2928	0	4277	1	5626	1	6975	0
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232	1	1581	0	2930	0	4279	0	5628	1	6977	0
233	1	1582	0	2931	0	4280	1	5629	1	6978	0
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236	0	1585	1	2934	1	4283	1	5632	1	6981	1
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241	1	1590	0	2939	0	4288	1	5637	1	6986	0
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245	1	1594	1	2943	0	4292	0	5641	1	6990	0

246	0	1595	1	2944	0	4293	0	5642	1	6991	0
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248	0	1597	1	2946	1	4295	1	5644	0	6993	0
249	1	1598	0	2947	0	4296	0	5645	1	6994	0
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252	1	1601	0	2950	1	4299	1	5648	1	6997	1
253	0	1602	1	2951	0	4300	0	5649	0	6998	1
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257	1	1606	0	2955	1	4304	1	5653	0	7002	0
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259	1	1608	0	2957	1	4306	1	5655	1	7004	0
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263	1	1612	1	2961	0	4310	0	5659	1	7008	1
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266	0	1615	1	2964	0	4313	0	5662	1	7011	1
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272	1	1621	1	2970	0	4319	0	5668	0	7017	1
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284	1	1633	1	2982	1	4331	1	5680	1	7029	1
285	0	1634	0	2983	1	4332	0	5681	0	7030	1
286	1	1635	0	2984	0	4333	0	5682	0	7031	0
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290	1	1639	0	2988	1	4337	0	5686	0	7035	1
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294	1	1643	0	2992	1	4341	1	5690	0	7039	0
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300	0	1649	0	2998	0	4347	1	5696	0	7045	0
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309	1	1658	1	3007	0	4356	1	5705	1	7054	1
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314	0	1663	1	3012	0	4361	0	5710	1	7059	0
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319	1	1668	0	3017	1	4366	0	5715	0	7064	1
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323	1	1672	0	3021	0	4370	0	5719	1	7068	0
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326	1	1675	0	3024	1	4373	0	5722	1	7071	1
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367	0	1716	0	3065	0	4414	1	5763	1	7112	1
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491	0	1840	1	3189	0	4538	0	5887	0	7236	0
492	1	1841	1	3190	0	4539	0	5888	1	7237	0
493	1	1842	0	3191	1	4540	0	5889	1	7238	0
494	0	1843	1	3192	1	4541	1	5890	0	7239	0
495	1	1844	1	3193	1	4542	1	5891	0	7240	0
496	0	1845	1	3194	1	4543	0	5892	1	7241	1
497	1	1846	0	3195	1	4544	1	5893	1	7242	0
498	0	1847	1	3196	0	4545	0	5894	0	7243	1
499	0	1848	0	3197	1	4546	1	5895	1	7244	0
500	1	1849	0	3198	0	4547	0	5896	1	7245	0
501	0	1850	0	3199	1	4548	0	5897	1	7246	0
502	0	1851	1	3200	0	4549	1	5898	0	7247	1
503	1	1852	1	3201	0	4550	1	5899	0	7248	1
504	1	1853	0	3202	0	4551	1	5900	1	7249	0
505	1	1854	1	3203	1	4552	0	5901	0	7250	0
506	0	1855	0	3204	0	4553	0	5902	0	7251	0
507	1	1856	0	3205	1	4554	0	5903	0	7252	0
508	1	1857	0	3206	0	4555	0	5904	1	7253	1
509	0	1858	1	3207	0	4556	0	5905	1	7254	0

510	0	1859	1	3208	0	4557	0	5906	0	7255	0
511	1	1860	0	3209	0	4558	0	5907	1	7256	0
512	0	1861	0	3210	1	4559	1	5908	1	7257	0
513	0	1862	0	3211	1	4560	0	5909	0	7258	0
514	1	1863	1	3212	1	4561	0	5910	0	7259	0
515	1	1864	1	3213	0	4562	0	5911	0	7260	0
516	1	1865	1	3214	1	4563	0	5912	1	7261	0
517	1	1866	1	3215	0	4564	1	5913	0	7262	0
518	0	1867	1	3216	1	4565	1	5914	1	7263	0
519	1	1868	1	3217	1	4566	0	5915	1	7264	1
520	0	1869	0	3218	0	4567	1	5916	1	7265	0
521	1	1870	1	3219	1	4568	1	5917	0	7266	1
522	0	1871	1	3220	1	4569	1	5918	0	7267	0
523	0	1872	0	3221	0	4570	1	5919	0	7268	1
524	1	1873	1	3222	1	4571	1	5920	0	7269	1
525	1	1874	1	3223	1	4572	1	5921	0	7270	1
526	1	1875	0	3224	0	4573	1	5922	0	7271	1
527	0	1876	0	3225	1	4574	1	5923	0	7272	1
528	1	1877	1	3226	1	4575	1	5924	0	7273	0
529	0	1878	1	3227	0	4576	0	5925	0	7274	0
530	0	1879	0	3228	1	4577	1	5926	0	7275	1
531	0	1880	0	3229	1	4578	1	5927	1	7276	1
532	0	1881	0	3230	1	4579	0	5928	1	7277	1
533	1	1882	0	3231	0	4580	1	5929	0	7278	1
534	1	1883	1	3232	0	4581	1	5930	0	7279	0
535	1	1884	1	3233	1	4582	1	5931	0	7280	0
536	0	1885	0	3234	1	4583	1	5932	1	7281	1
537	0	1886	1	3235	0	4584	1	5933	1	7282	1
538	0	1887	1	3236	1	4585	0	5934	0	7283	0
539	1	1888	0	3237	0	4586	0	5935	0	7284	0
540	1	1889	0	3238	0	4587	0	5936	0	7285	0
541	0	1890	1	3239	1	4588	1	5937	1	7286	1
542	1	1891	1	3240	1	4589	1	5938	0	7287	1
543	0	1892	0	3241	1	4590	0	5939	1	7288	1
544	0	1893	0	3242	1	4591	0	5940	0	7289	0
545	0	1894	1	3243	0	4592	0	5941	0	7290	0
546	0	1895	1	3244	0	4593	1	5942	1	7291	1
547	0	1896	1	3245	0	4594	0	5943	0	7292	0
548	1	1897	1	3246	0	4595	1	5944	1	7293	1
549	1	1898	1	3247	1	4596	1	5945	1	7294	0
550	0	1899	0	3248	0	4597	0	5946	1	7295	1
551	1	1900	1	3249	1	4598	0	5947	0	7296	1
552	1	1901	0	3250	0	4599	1	5948	1	7297	0
553	0	1902	0	3251	1	4600	1	5949	1	7298	1

554	0	1903	0	3252	0	4601	0	5950	1	7299	0
555	0	1904	1	3253	1	4602	0	5951	0	7300	1
556	0	1905	0	3254	1	4603	1	5952	1	7301	0
557	1	1906	0	3255	1	4604	0	5953	0	7302	0
558	1	1907	0	3256	1	4605	1	5954	1	7303	1
559	0	1908	0	3257	1	4606	1	5955	1	7304	1
560	1	1909	1	3258	0	4607	0	5956	1	7305	0
561	1	1910	1	3259	0	4608	0	5957	0	7306	0
562	1	1911	1	3260	1	4609	0	5958	0	7307	1
563	0	1912	0	3261	1	4610	0	5959	0	7308	0
564	0	1913	1	3262	0	4611	0	5960	0	7309	1
565	1	1914	0	3263	1	4612	1	5961	1	7310	1
566	0	1915	1	3264	1	4613	1	5962	1	7311	1
567	1	1916	1	3265	0	4614	0	5963	0	7312	1
568	1	1917	1	3266	1	4615	0	5964	0	7313	0
569	1	1918	0	3267	1	4616	0	5965	0	7314	1
570	1	1919	1	3268	1	4617	1	5966	1	7315	1
571	1	1920	1	3269	1	4618	1	5967	0	7316	0
572	0	1921	0	3270	1	4619	0	5968	1	7317	1
573	0	1922	0	3271	0	4620	0	5969	0	7318	0
574	0	1923	0	3272	1	4621	0	5970	0	7319	0
575	0	1924	1	3273	0	4622	0	5971	0	7320	1
576	1	1925	1	3274	0	4623	0	5972	1	7321	0
577	0	1926	1	3275	0	4624	0	5973	1	7322	0
578	1	1927	1	3276	0	4625	1	5974	0	7323	0
579	0	1928	1	3277	1	4626	1	5975	1	7324	0
580	0	1929	1	3278	1	4627	1	5976	0	7325	0
581	0	1930	0	3279	1	4628	0	5977	1	7326	1
582	1	1931	0	3280	1	4629	0	5978	1	7327	1
583	1	1932	0	3281	1	4630	0	5979	0	7328	0
584	1	1933	1	3282	0	4631	0	5980	1	7329	0
585	0	1934	1	3283	1	4632	0	5981	0	7330	0
586	1	1935	0	3284	1	4633	1	5982	0	7331	1
587	1	1936	0	3285	1	4634	1	5983	1	7332	0
588	0	1937	1	3286	1	4635	0	5984	1	7333	1
589	1	1938	0	3287	1	4636	0	5985	0	7334	1
590	1	1939	0	3288	0	4637	0	5986	1	7335	1
591	1	1940	1	3289	0	4638	0	5987	1	7336	0
592	1	1941	0	3290	0	4639	0	5988	0	7337	1
593	0	1942	0	3291	1	4640	1	5989	0	7338	0
594	1	1943	0	3292	1	4641	1	5990	0	7339	1
595	1	1944	1	3293	1	4642	0	5991	1	7340	0
596	0	1945	1	3294	0	4643	0	5992	0	7341	1
597	1	1946	0	3295	0	4644	0	5993	0	7342	1

598	1	1947	0	3296	1	4645	1	5994	0	7343	0
599	0	1948	1	3297	0	4646	0	5995	1	7344	1
600	1	1949	1	3298	1	4647	0	5996	0	7345	1
601	1	1950	1	3299	0	4648	1	5997	0	7346	1
602	1	1951	1	3300	1	4649	0	5998	0	7347	0
603	0	1952	1	3301	0	4650	0	5999	1	7348	1
604	0	1953	0	3302	0	4651	1	6000	1	7349	1
605	1	1954	0	3303	1	4652	1	6001	0	7350	1
606	1	1955	0	3304	1	4653	1	6002	0	7351	1
607	1	1956	1	3305	0	4654	1	6003	1	7352	1
608	0	1957	0	3306	0	4655	1	6004	0	7353	0
609	0	1958	0	3307	1	4656	1	6005	1	7354	0
610	0	1959	1	3308	0	4657	1	6006	0	7355	1
611	1	1960	0	3309	1	4658	1	6007	1	7356	1
612	0	1961	1	3310	1	4659	1	6008	1	7357	1
613	0	1962	0	3311	0	4660	1	6009	1	7358	0
614	0	1963	1	3312	1	4661	0	6010	1	7359	0
615	1	1964	1	3313	1	4662	0	6011	0	7360	1
616	1	1965	0	3314	1	4663	1	6012	0	7361	1
617	1	1966	1	3315	0	4664	1	6013	0	7362	1
618	1	1967	0	3316	0	4665	1	6014	0	7363	1
619	1	1968	0	3317	1	4666	0	6015	0	7364	1
620	1	1969	1	3318	1	4667	1	6016	1	7365	0
621	1	1970	0	3319	1	4668	0	6017	0	7366	0
622	0	1971	0	3320	1	4669	1	6018	1	7367	1
623	0	1972	1	3321	1	4670	0	6019	0	7368	0
624	1	1973	1	3322	0	4671	0	6020	0	7369	1
625	1	1974	1	3323	1	4672	1	6021	1	7370	1
626	1	1975	0	3324	0	4673	0	6022	0	7371	0
627	0	1976	0	3325	0	4674	1	6023	1	7372	0
628	0	1977	1	3326	1	4675	0	6024	0	7373	0
629	0	1978	1	3327	1	4676	0	6025	1	7374	0
630	1	1979	0	3328	1	4677	0	6026	0	7375	0
631	1	1980	1	3329	0	4678	1	6027	1	7376	1
632	1	1981	0	3330	0	4679	0	6028	0	7377	0
633	0	1982	1	3331	1	4680	1	6029	0	7378	0
634	0	1983	1	3332	0	4681	0	6030	0	7379	1
635	0	1984	0	3333	1	4682	0	6031	0	7380	0
636	1	1985	1	3334	1	4683	1	6032	1	7381	1
637	1	1986	1	3335	1	4684	1	6033	1	7382	0
638	0	1987	1	3336	1	4685	0	6034	0	7383	0
639	1	1988	0	3337	1	4686	1	6035	1	7384	0
640	0	1989	1	3338	1	4687	0	6036	1	7385	0
641	0	1990	0	3339	1	4688	0	6037	1	7386	0

642	0	1991	1	3340	0	4689	1	6038	0	7387	1
643	1	1992	0	3341	1	4690	0	6039	1	7388	1
644	1	1993	1	3342	0	4691	1	6040	0	7389	0
645	0	1994	1	3343	0	4692	1	6041	0	7390	1
646	0	1995	0	3344	0	4693	0	6042	1	7391	0
647	1	1996	0	3345	0	4694	1	6043	0	7392	1
648	1	1997	0	3346	0	4695	1	6044	0	7393	1
649	0	1998	0	3347	1	4696	1	6045	0	7394	0
650	0	1999	1	3348	0	4697	0	6046	1	7395	0
651	0	2000	0	3349	0	4698	0	6047	1	7396	0
652	1	2001	1	3350	0	4699	1	6048	1	7397	0
653	1	2002	0	3351	0	4700	1	6049	1	7398	1
654	0	2003	1	3352	1	4701	1	6050	1	7399	0
655	1	2004	0	3353	0	4702	0	6051	0	7400	0
656	0	2005	1	3354	0	4703	0	6052	0	7401	0
657	1	2006	1	3355	1	4704	1	6053	1	7402	1
658	0	2007	0	3356	1	4705	0	6054	0	7403	0
659	0	2008	1	3357	1	4706	0	6055	0	7404	0
660	1	2009	1	3358	1	4707	0	6056	0	7405	0
661	0	2010	1	3359	0	4708	1	6057	1	7406	0
662	1	2011	1	3360	0	4709	0	6058	1	7407	1
663	1	2012	0	3361	1	4710	1	6059	0	7408	0
664	0	2013	0	3362	1	4711	1	6060	1	7409	0
665	1	2014	1	3363	0	4712	0	6061	0	7410	0
666	1	2015	0	3364	0	4713	0	6062	0	7411	1
667	1	2016	0	3365	1	4714	1	6063	1	7412	0
668	0	2017	1	3366	0	4715	1	6064	1	7413	1
669	1	2018	1	3367	1	4716	1	6065	0	7414	1
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671	0	2020	0	3369	1	4718	1	6067	0	7416	1
672	0	2021	0	3370	1	4719	0	6068	0	7417	1
673	0	2022	1	3371	0	4720	0	6069	1	7418	0
674	1	2023	0	3372	0	4721	1	6070	0	7419	1
675	1	2024	0	3373	1	4722	1	6071	1	7420	0
676	1	2025	0	3374	1	4723	1	6072	1	7421	1
677	0	2026	0	3375	0	4724	1	6073	0	7422	1
678	0	2027	1	3376	0	4725	1	6074	0	7423	0
679	1	2028	1	3377	0	4726	0	6075	0	7424	0
680	0	2029	0	3378	1	4727	1	6076	0	7425	1
681	1	2030	1	3379	0	4728	1	6077	0	7426	1
682	1	2031	0	3380	0	4729	1	6078	1	7427	1
683	1	2032	1	3381	1	4730	0	6079	1	7428	0
684	1	2033	0	3382	1	4731	0	6080	0	7429	0
685	1	2034	0	3383	1	4732	0	6081	1	7430	0

686	0	2035	1	3384	1	4733	0	6082	1	7431	0
687	0	2036	0	3385	0	4734	0	6083	1	7432	0
688	0	2037	0	3386	1	4735	0	6084	0	7433	1
689	1	2038	1	3387	1	4736	0	6085	0	7434	0
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691	1	2040	0	3389	1	4738	0	6087	0	7436	0
692	0	2041	1	3390	0	4739	0	6088	1	7437	1
693	0	2042	1	3391	0	4740	1	6089	1	7438	1
694	0	2043	0	3392	0	4741	0	6090	1	7439	1
695	1	2044	0	3393	0	4742	0	6091	1	7440	0
696	1	2045	0	3394	0	4743	0	6092	1	7441	0
697	1	2046	0	3395	1	4744	0	6093	0	7442	0
698	0	2047	0	3396	1	4745	0	6094	1	7443	0
699	0	2048	0	3397	1	4746	0	6095	1	7444	1
700	0	2049	0	3398	1	4747	0	6096	0	7445	1
701	1	2050	1	3399	1	4748	0	6097	1	7446	1
702	1	2051	0	3400	0	4749	0	6098	0	7447	0
703	0	2052	1	3401	0	4750	0	6099	0	7448	1
704	0	2053	1	3402	0	4751	0	6100	0	7449	0
705	0	2054	0	3403	1	4752	1	6101	0	7450	1
706	1	2055	1	3404	1	4753	1	6102	1	7451	1
707	1	2056	1	3405	0	4754	0	6103	1	7452	0
708	0	2057	1	3406	1	4755	0	6104	0	7453	1
709	0	2058	0	3407	0	4756	1	6105	0	7454	0
710	0	2059	1	3408	1	4757	0	6106	0	7455	1
711	1	2060	0	3409	0	4758	1	6107	1	7456	1
712	1	2061	1	3410	0	4759	1	6108	1	7457	0
713	1	2062	1	3411	1	4760	1	6109	1	7458	1
714	0	2063	0	3412	0	4761	0	6110	0	7459	0
715	0	2064	0	3413	1	4762	1	6111	0	7460	0
716	0	2065	1	3414	0	4763	1	6112	0	7461	0
717	0	2066	0	3415	1	4764	0	6113	0	7462	1
718	1	2067	0	3416	1	4765	1	6114	1	7463	1
719	0	2068	1	3417	1	4766	0	6115	0	7464	1
720	1	2069	0	3418	1	4767	0	6116	1	7465	0
721	0	2070	1	3419	0	4768	0	6117	0	7466	1
722	1	2071	1	3420	0	4769	1	6118	1	7467	0
723	0	2072	1	3421	0	4770	1	6119	0	7468	1
724	1	2073	1	3422	1	4771	1	6120	0	7469	1
725	0	2074	1	3423	1	4772	1	6121	0	7470	0
726	1	2075	0	3424	0	4773	0	6122	0	7471	0
727	0	2076	0	3425	1	4774	1	6123	0	7472	1
728	1	2077	0	3426	1	4775	1	6124	1	7473	1
729	0	2078	0	3427	0	4776	1	6125	0	7474	0

730	1	2079	1	3428	0	4777	1	6126	0	7475	1
731	0	2080	1	3429	1	4778	1	6127	0	7476	0
732	1	2081	1	3430	0	4779	1	6128	0	7477	1
733	0	2082	1	3431	1	4780	1	6129	0	7478	1
734	0	2083	0	3432	0	4781	1	6130	0	7479	0
735	0	2084	1	3433	1	4782	1	6131	0	7480	0
736	1	2085	0	3434	1	4783	0	6132	1	7481	0
737	1	2086	1	3435	0	4784	1	6133	1	7482	0
738	0	2087	0	3436	0	4785	1	6134	0	7483	1
739	0	2088	1	3437	0	4786	1	6135	0	7484	1
740	1	2089	0	3438	1	4787	0	6136	1	7485	0
741	1	2090	1	3439	0	4788	1	6137	1	7486	0
742	0	2091	0	3440	1	4789	1	6138	1	7487	0
743	0	2092	0	3441	1	4790	1	6139	0	7488	1
744	1	2093	0	3442	0	4791	1	6140	1	7489	1
745	0	2094	1	3443	0	4792	1	6141	0	7490	1
746	0	2095	1	3444	1	4793	1	6142	0	7491	1
747	1	2096	1	3445	0	4794	0	6143	1	7492	1
748	1	2097	1	3446	0	4795	0	6144	1	7493	0
749	0	2098	1	3447	1	4796	1	6145	0	7494	1
750	1	2099	1	3448	1	4797	1	6146	1	7495	1
751	1	2100	1	3449	1	4798	1	6147	1	7496	0
752	0	2101	1	3450	0	4799	1	6148	1	7497	1
753	1	2102	0	3451	0	4800	1	6149	1	7498	0
754	0	2103	0	3452	0	4801	0	6150	1	7499	0
755	0	2104	1	3453	0	4802	1	6151	1	7500	0
756	1	2105	1	3454	1	4803	1	6152	1	7501	0
757	0	2106	1	3455	0	4804	0	6153	0	7502	1
758	0	2107	0	3456	0	4805	1	6154	0	7503	1
759	1	2108	1	3457	0	4806	0	6155	1	7504	0
760	1	2109	0	3458	1	4807	0	6156	1	7505	0
761	1	2110	0	3459	1	4808	0	6157	0	7506	0
762	1	2111	0	3460	1	4809	0	6158	1	7507	0
763	1	2112	0	3461	1	4810	0	6159	0	7508	1
764	1	2113	1	3462	1	4811	0	6160	1	7509	1
765	1	2114	1	3463	1	4812	0	6161	0	7510	0
766	0	2115	1	3464	0	4813	0	6162	1	7511	1
767	1	2116	1	3465	1	4814	1	6163	1	7512	1
768	1	2117	1	3466	1	4815	1	6164	0	7513	1
769	0	2118	1	3467	1	4816	0	6165	0	7514	1
770	1	2119	1	3468	0	4817	1	6166	0	7515	1
771	1	2120	1	3469	1	4818	1	6167	1	7516	1
772	1	2121	0	3470	0	4819	1	6168	0	7517	0
773	0	2122	0	3471	1	4820	1	6169	0	7518	1

774	0	2123	1	3472	1	4821	0	6170	0	7519	0
775	0	2124	0	3473	0	4822	1	6171	1	7520	1
776	0	2125	0	3474	1	4823	0	6172	1	7521	0
777	0	2126	1	3475	1	4824	0	6173	1	7522	0
778	1	2127	1	3476	1	4825	0	6174	0	7523	0
779	1	2128	0	3477	1	4826	1	6175	0	7524	1
780	1	2129	0	3478	0	4827	0	6176	1	7525	1
781	1	2130	1	3479	0	4828	1	6177	0	7526	1
782	0	2131	1	3480	0	4829	1	6178	0	7527	0
783	1	2132	1	3481	1	4830	0	6179	1	7528	1
784	1	2133	0	3482	1	4831	1	6180	0	7529	0
785	1	2134	0	3483	1	4832	1	6181	1	7530	1
786	0	2135	0	3484	0	4833	0	6182	1	7531	0
787	0	2136	0	3485	1	4834	1	6183	0	7532	0
788	0	2137	1	3486	0	4835	0	6184	1	7533	0
789	1	2138	0	3487	0	4836	0	6185	1	7534	1
790	1	2139	1	3488	0	4837	1	6186	0	7535	1
791	1	2140	1	3489	1	4838	1	6187	1	7536	0
792	1	2141	0	3490	0	4839	1	6188	0	7537	0
793	0	2142	0	3491	1	4840	0	6189	0	7538	0
794	0	2143	1	3492	1	4841	1	6190	1	7539	0
795	0	2144	0	3493	0	4842	1	6191	0	7540	1
796	1	2145	0	3494	0	4843	1	6192	1	7541	1
797	0	2146	0	3495	0	4844	1	6193	0	7542	1
798	0	2147	0	3496	1	4845	0	6194	1	7543	1
799	0	2148	0	3497	0	4846	0	6195	1	7544	0
800	1	2149	1	3498	1	4847	0	6196	0	7545	0
801	1	2150	1	3499	0	4848	1	6197	1	7546	0
802	0	2151	1	3500	1	4849	1	6198	1	7547	0
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804	0	2153	1	3502	0	4851	1	6200	1	7549	1
805	0	2154	1	3503	1	4852	0	6201	1	7550	0
806	1	2155	1	3504	1	4853	0	6202	0	7551	0
807	1	2156	1	3505	0	4854	0	6203	0	7552	1
808	1	2157	0	3506	1	4855	0	6204	1	7553	1
809	0	2158	0	3507	0	4856	0	6205	1	7554	1
810	1	2159	1	3508	0	4857	1	6206	1	7555	1
811	1	2160	0	3509	1	4858	0	6207	0	7556	0
812	0	2161	0	3510	1	4859	1	6208	1	7557	1
813	1	2162	0	3511	1	4860	0	6209	1	7558	0
814	0	2163	1	3512	1	4861	0	6210	1	7559	0
815	1	2164	1	3513	0	4862	0	6211	0	7560	0
816	1	2165	0	3514	1	4863	1	6212	0	7561	0
817	1	2166	0	3515	1	4864	0	6213	0	7562	1

818	1	2167	0	3516	1	4865	1	6214	1	7563	0
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820	1	2169	0	3518	1	4867	1	6216	1	7565	0
821	1	2170	1	3519	1	4868	1	6217	0	7566	0
822	0	2171	0	3520	0	4869	1	6218	0	7567	1
823	1	2172	0	3521	0	4870	0	6219	1	7568	1
824	1	2173	0	3522	0	4871	1	6220	1	7569	1
825	0	2174	0	3523	1	4872	1	6221	0	7570	0
826	1	2175	1	3524	0	4873	0	6222	1	7571	0
827	1	2176	0	3525	0	4874	0	6223	0	7572	0
828	1	2177	0	3526	1	4875	1	6224	0	7573	1
829	1	2178	0	3527	1	4876	0	6225	1	7574	0
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831	0	2180	0	3529	1	4878	0	6227	0	7576	1
832	0	2181	1	3530	0	4879	0	6228	0	7577	1
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835	0	2184	0	3533	0	4882	0	6231	0	7580	1
836	0	2185	0	3534	0	4883	1	6232	1	7581	0
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838	0	2187	0	3536	0	4885	0	6234	1	7583	1
839	0	2188	0	3537	1	4886	1	6235	0	7584	0
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841	0	2190	1	3539	1	4888	1	6237	0	7586	0
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843	0	2192	0	3541	1	4890	1	6239	1	7588	0
844	0	2193	0	3542	0	4891	0	6240	0	7589	1
845	1	2194	1	3543	0	4892	1	6241	0	7590	0
846	0	2195	0	3544	1	4893	0	6242	1	7591	0
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848	1	2197	0	3546	1	4895	0	6244	0	7593	1
849	1	2198	1	3547	0	4896	0	6245	1	7594	0
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854	1	2203	1	3552	0	4901	1	6250	1	7599	0
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858	0	2207	1	3556	1	4905	0	6254	0	7603	1
859	1	2208	1	3557	0	4906	1	6255	1	7604	1
860	1	2209	1	3558	1	4907	0	6256	0	7605	0
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863	0	2212	1	3561	1	4910	1	6259	0	7608	1
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865	1	2214	0	3563	0	4912	1	6261	0	7610	0
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867	1	2216	0	3565	0	4914	0	6263	1	7612	0
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869	0	2218	0	3567	0	4916	1	6265	0	7614	1
870	0	2219	0	3568	1	4917	1	6266	0	7615	0
871	1	2220	1	3569	0	4918	1	6267	1	7616	1
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874	1	2223	0	3572	1	4921	0	6270	0	7619	1
875	1	2224	1	3573	1	4922	1	6271	1	7620	0
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877	0	2226	1	3575	1	4924	0	6273	1	7622	1
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881	0	2230	1	3579	1	4928	0	6277	1	7626	1
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893	0	2242	0	3591	0	4940	1	6289	1	7638	1
894	0	2243	1	3592	1	4941	1	6290	0	7639	1
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896	1	2245	0	3594	0	4943	0	6292	0	7641	1
897	0	2246	0	3595	1	4944	0	6293	0	7642	0
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899	0	2248	1	3597	1	4946	1	6295	1	7644	1
900	1	2249	0	3598	0	4947	0	6296	1	7645	0
901	1	2250	0	3599	1	4948	1	6297	0	7646	0
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903	1	2252	0	3601	0	4950	0	6299	1	7648	0
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906	0	2255	1	3604	0	4953	1	6302	1	7651	1
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908	0	2257	1	3606	1	4955	1	6304	0	7653	1
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913	1	2262	0	3611	1	4960	1	6309	1	7658	1
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922	1	2271	1	3620	0	4969	1	6318	1	7667	0
923	0	2272	0	3621	0	4970	0	6319	1	7668	1
924	0	2273	1	3622	0	4971	1	6320	1	7669	1
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926	0	2275	1	3624	0	4973	0	6322	0	7671	1
927	1	2276	0	3625	1	4974	0	6323	1	7672	0
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929	1	2278	0	3627	1	4976	1	6325	0	7674	1
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932	0	2281	0	3630	0	4979	1	6328	1	7677	0
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934	0	2283	1	3632	0	4981	0	6330	1	7679	1
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937	0	2286	1	3635	1	4984	1	6333	0	7682	1
938	0	2287	0	3636	1	4985	1	6334	1	7683	0
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943	0	2292	0	3641	1	4990	0	6339	1	7688	0
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945	1	2294	0	3643	0	4992	0	6341	1	7690	1
946	1	2295	0	3644	1	4993	0	6342	1	7691	1
947	1	2296	1	3645	0	4994	1	6343	1	7692	1
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952	0	2301	0	3650	1	4999	1	6348	1	7697	1
953	1	2302	0	3651	1	5000	1	6349	0	7698	0
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955	0	2304	0	3653	1	5002	1	6351	0	7700	1
956	1	2305	0	3654	1	5003	0	6352	0	7701	0
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967	1	2316	0	3665	0	5014	1	6363	0	7712	0
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971	1	2320	1	3669	1	5018	1	6367	1	7716	0
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973	1	2322	1	3671	0	5020	1	6369	1	7718	1
974	0	2323	1	3672	1	5021	1	6370	0	7719	0
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977	1	2326	0	3675	1	5024	0	6373	0	7722	1
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981	1	2330	1	3679	1	5028	1	6377	0	7726	0
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991	1	2340	1	3689	1	5038	1	6387	1	7736	0
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993	0	2342	0	3691	0	5040	0	6389	0	7738	0

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1293	1	2642	0	3991	0	5340	1	6689	0	8038	0
1294	0	2643	0	3992	0	5341	1	6690	0	8039	1
1295	1	2644	0	3993	1	5342	0	6691	0	8040	0
1296	0	2645	0	3994	0	5343	1	6692	0	8041	0
1297	0	2646	0	3995	0	5344	0	6693	0	8042	1
1298	1	2647	0	3996	0	5345	1	6694	0	8043	1
1299	0	2648	1	3997	1	5346	0	6695	0	8044	0
1300	1	2649	1	3998	0	5347	1	6696	0	8045	1
1301	0	2650	0	3999	0	5348	0	6697	0	8046	0

1302	1	2651	1	4000	1	5349	0	6698	0	8047	0
1303	1	2652	1	4001	1	5350	0	6699	1	8048	0
1304	1	2653	0	4002	0	5351	0	6700	0	8049	0
1305	1	2654	1	4003	1	5352	0	6701	0	8050	1
1306	1	2655	1	4004	1	5353	1	6702	0	8051	1
1307	0	2656	1	4005	1	5354	1	6703	1	8052	0
1308	1	2657	1	4006	0	5355	0	6704	0	8053	0
1309	0	2658	0	4007	0	5356	0	6705	0	8054	1
1310	0	2659	0	4008	0	5357	1	6706	1	8055	0
1311	0	2660	0	4009	1	5358	1	6707	0	8056	0
1312	1	2661	1	4010	1	5359	1	6708	1	8057	0
1313	1	2662	1	4011	0	5360	0	6709	1	8058	0
1314	1	2663	0	4012	0	5361	0	6710	0	8059	1
1315	0	2664	1	4013	0	5362	0	6711	0	8060	1
1316	1	2665	0	4014	1	5363	0	6712	0	8061	0
1317	1	2666	0	4015	1	5364	0	6713	0	8062	0
1318	0	2667	1	4016	0	5365	1	6714	1	8063	1
1319	0	2668	1	4017	0	5366	1	6715	1	8064	1
1320	0	2669	1	4018	0	5367	0	6716	0	8065	1
1321	0	2670	1	4019	0	5368	1	6717	1	8066	1
1322	0	2671	1	4020	0	5369	1	6718	1	8067	1
1323	0	2672	0	4021	0	5370	1	6719	1	8068	1
1324	0	2673	1	4022	0	5371	1	6720	0	8069	1
1325	1	2674	0	4023	0	5372	1	6721	0	8070	0
1326	0	2675	0	4024	1	5373	0	6722	1	8071	0
1327	0	2676	0	4025	0	5374	0	6723	1	8072	0
1328	0	2677	1	4026	1	5375	1	6724	0	8073	0
1329	0	2678	0	4027	1	5376	0	6725	0	8074	0
1330	1	2679	1	4028	0	5377	1	6726	1	8075	1
1331	0	2680	1	4029	1	5378	0	6727	0	8076	0
1332	0	2681	0	4030	1	5379	1	6728	0	8077	1
1333	1	2682	0	4031	1	5380	1	6729	0	8078	1
1334	1	2683	0	4032	0	5381	1	6730	1	8079	0
1335	0	2684	0	4033	0	5382	0	6731	0	8080	1
1336	0	2685	1	4034	1	5383	1	6732	0	8081	0
1337	0	2686	1	4035	1	5384	1	6733	1	8082	0
1338	1	2687	1	4036	0	5385	1	6734	0	8083	0
1339	0	2688	0	4037	0	5386	0	6735	0	8084	0
1340	1	2689	1	4038	1	5387	1	6736	1	8085	0
1341	0	2690	1	4039	0	5388	1	6737	1	8086	0
1342	1	2691	0	4040	0	5389	0	6738	0	8087	0
1343	1	2692	1	4041	0	5390	1	6739	1	8088	0
1344	0	2693	1	4042	1	5391	1	6740	0		
1345	0	2694	0	4043	1	5392	1	6741	1		

1346	0	2695	0	4044	1	5393	0	6742	1	
1347	0	2696	0	4045	1	5394	0	6743	1	
1348	1	2697	1	4046	0	5395	1	6744	0	

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