

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$p_0(z) = z^{18} + z^{17} + z^{14} + z^{13} + z^{12} + z^{11} + z^8 + z^7 + z^6 + z^5 + z^4 + z^3 + 1,$$

$$p_1(z) = z^{22} + z^{21} + z^{20} + z^{19} + z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^5 + z^4 + z^2,$$

$$p_2(z) = z^{24} + z^{18} + z^{16} + z^{10} + z^8 + z^4 + 1,$$

$$p_3(z) = z^{22} + z^{21} + z^{20} + z^{19} + z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^5 + z^4 + z^2,$$

$$p_4(z) = z^{20} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^8 + z^7 + z^6 + z^5 + z^3 + 1,$$

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

$$p_0(z) = z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^7 + z^6 + z^5 + z^4 + z^3 + 1,$$

$$p_1(z) = z^{22} + z^{21} + z^{20} + z^{19} + z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^5 + z^4 + z^2,$$

$$p_2(z) = z^{24} + z^{18} + z^{16} + z^{10} + z^8 + z^4 + 1,$$

$$p_3(z) = z^{22} + z^{21} + z^{20} + z^{19} + z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^5 + z^4 + z^2,$$

$$p_4(z) = z^{20} + z^{17} + z^{14} + z^{13} + z^{11} + z^{10} + z^7 + z^6 + z^5 + z^3 + 1.$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

$$\begin{aligned}
(2.7) \quad 0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] \\
&\quad + T[[101w]_2] + T[[110w]_2],
\end{aligned}$$

$$(2.8) \quad 0 = T[[w]_2] + T[[111w]_2],$$

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

$$(2.10) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[1001w]_2],$$

$$(2.11) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad \begin{aligned} 1 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] \\ &\quad + T[[101w]_2] + T[[110w]_2], \end{aligned}$$

$$(2.14) \quad 1 = T[[w]_2] + T[[111w]_2],$$

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

$$(2.16) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8081 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

$$(2.19) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 110)), \end{aligned}$$

$$(2.20) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 111)),$$

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

$$(2.22) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1010)),$$

$$(2.24) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1011)), \end{aligned}$$

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

$$(2.25) \quad \begin{aligned} 1 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 110)), \end{aligned}$$

$$(2.26) \quad 1 = \tau(A(s, \epsilon)) + \tau(A(s, 111)),$$

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

$$(2.28) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1010)),$$

$$(2.30) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1011)), \end{aligned}$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{32}), E_{32}) = (A(i, 0^{16}), E_{16})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 16$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

We give the proof of

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned} p_0(x) &= x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{104} + x^{102} + x^{94} + x^{90} \\ &\quad + x^{88} + x^{76} + x^{74} + x^{72} + x^{70} + x^{66} + x^{62} + x^{60} + x^{56} + x^{54} + x^{46} \\ &\quad + x^{44} + x^{38} + x^{36} + x^{24}, \\ p_3(x) &= x^{116} + x^{114} + x^{112} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} + x^{96} + x^{86} \\ &\quad + x^{84} + x^{80} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} + x^{62} + x^{60} + x^{56} + x^{54} \\ &\quad + x^{52} + x^{46} + x^{42} + x^{38} + x^{34} + x^{30} + x^{28} + x^{22} + x^{20}, \\ p_6(x) &= x^{114} + x^{112} + x^{106} + x^{104} + x^{102} + x^{96} + x^{92} + x^{90} + x^{88} + x^{82} + x^{80} \\ &\quad + x^{78} + x^{70} + x^{66} + x^{64} + x^{62} + x^{54} + x^{44} + x^{42} + x^{36} + x^{28} + x^{24} \\ &\quad + x^{22} + x^{18} + x^{16} + x^{14} + x^4 + 1, \\ p_9(x) &= x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{98} + x^{94} + x^{90} + x^{88} + x^{82} + x^{74} \\ &\quad + x^{72} + x^{70} + x^{68} + x^{62} + x^{60} + x^{52} + x^{50} + x^{46} + x^{38} + x^{34} + x^{24} \\ &\quad + x^{18} + x^{16} + x^6 + x^4, \\ p_{12}(x) &= x^{120} + x^{118} + x^{110} + x^{102} + x^{96} + x^{88} + x^{86} + x^{78} + x^{72} + x^{64} + x^{62} \\ &\quad + x^{54} + x^{48} + x^{40} + x^{38} + x^{30} + x^{24} + x^{16} + x^{14} + x^6 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{123} + x^{121} + x^{117} + x^{113} + x^{111} + x^{110} + x^{106} + x^{105} + x^{103} \\ &\quad + x^{101} + x^{100} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} \\ &\quad + x^{84} + x^{80} + x^{79} + x^{78} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{67} + x^{65} \\ &\quad + x^{64} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} \\ &\quad + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{41} + x^{39} + x^{37} + x^{35} + x^{33} + x^{32} \\ &\quad + x^{30}, \\ p_3(x) &= x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{96} + x^{92} + x^{88} + x^{80} + x^{78} + x^{74} \\ &\quad + x^{70} + x^{60} + x^{54} + x^{52} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} \\ &\quad + x^{26} + x^{24} + x^{20} + x^{18}, \\ p_6(x) &= x^{114} + x^{111} + x^{109} + x^{107} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} \\ &\quad + x^{93} + x^{92} + x^{89} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} \\ &\quad + x^{73} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{53} \\ &\quad + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{39} + x^{37} + x^{36} \\ &\quad + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{24} + x^{22} + x^{20} + x^{18} \end{aligned}$$

$$\begin{aligned}
& + x^{13} + x^{12}, \\
p_9(x) &= x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{98} + x^{90} + x^{86} + x^{78} \\
& + x^{74} + x^{68} + x^{58} + x^{56} + x^{54} + x^{44} + x^{36} + x^{30} + x^{28} + x^{26} + x^{22} \\
& + x^{20} + x^{12} + x^6, \\
p_{12}(x) &= x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{114} + x^{111} + x^{109} + x^{108} + x^{107} \\
& + x^{105} + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} + x^{71} \\
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} \\
& + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} + x^{43} + x^{42} + x^{41} \\
& + x^{40} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{23} + x^{21} + x^{20} + x^{19} \\
& + x^{17} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^7 + x^5 + x^4 + x^3 \\
& + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{121} + x^{117} + x^{113} + x^{111} + x^{110} + x^{106} + x^{105} + x^{103} \\
& + x^{101} + x^{100} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} \\
& + x^{84} + x^{80} + x^{79} + x^{78} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{67} + x^{65} \\
& + x^{64} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} \\
& + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{41} + x^{39} + x^{37} + x^{35} + x^{33} + x^{32} \\
& + x^{30}, \\
p_3(x) &= x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{96} + x^{92} + x^{88} + x^{80} + x^{78} + x^{74} \\
& + x^{70} + x^{60} + x^{54} + x^{52} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} \\
& + x^{26} + x^{24} + x^{20} + x^{18}, \\
p_6(x) &= x^{114} + x^{111} + x^{109} + x^{107} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} \\
& + x^{93} + x^{92} + x^{89} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} \\
& + x^{73} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{53} \\
& + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{39} + x^{37} + x^{36} \\
& + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{24} + x^{22} + x^{20} + x^{18} \\
& + x^{13} + x^{12}, \\
p_9(x) &= x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{98} + x^{90} + x^{86} + x^{78} \\
& + x^{74} + x^{68} + x^{58} + x^{56} + x^{54} + x^{44} + x^{36} + x^{30} + x^{28} + x^{26} + x^{22} \\
& + x^{20} + x^{12} + x^6, \\
p_{12}(x) &= x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{114} + x^{111} + x^{109} + x^{108} + x^{107} \\
& + x^{105} + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} + x^{71}
\end{aligned}$$

$$\begin{aligned}
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} \\
& + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} + x^{43} + x^{42} + x^{41} \\
& + x^{40} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{23} + x^{21} + x^{20} + x^{19} \\
& + x^{17} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^7 + x^5 + x^4 + x^3 \\
& + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{132} + x^{130} + x^{128} + x^{126} + x^{124} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} \\
&+ x^{108} + x^{104} + x^{102} + x^{98} + x^{90} + x^{88} + x^{82} + x^{80} + x^{68} + x^{66} + x^{60} \\
&+ x^{58} + x^{54} + x^{52} + x^{48} + x^{46} + x^{42} + x^{40} + x^{36}, \\
p_3(x) &= x^{128} + x^{126} + x^{122} + x^{120} + x^{116} + x^{114} + x^{104} + x^{102} + x^{100} + x^{96} \\
&+ x^{90} + x^{84} + x^{74} + x^{68} + x^{64} + x^{62} + x^{58} + x^{54} + x^{52} + x^{46} + x^{44} \\
&+ x^{40} + x^{26} + x^{20} + x^{18} + x^{12}, \\
p_6(x) &= x^{126} + x^{118} + x^{112} + x^{110} + x^{108} + x^{94} + x^{90} + x^{86} + x^{84} + x^{82} + x^{76} \\
&+ x^{74} + x^{72} + x^{70} + x^{64} + x^{62} + x^{58} + x^{52} + x^{48} + x^{46} + x^{38} + x^{36} \\
&+ x^{26} + x^{24} + x^{22} + x^{20} + x^{14} + x^{12} + x^{10} + x^8 + x^2 + 1, \\
p_9(x) &= x^{128} + x^{126} + x^{124} + x^{122} + x^{116} + x^{114} + x^{110} + x^{108} + x^{100} + x^{94} \\
&+ x^{88} + x^{86} + x^{80} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} \\
&+ x^{56} + x^{54} + x^{52} + x^{48} + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{30} \\
&+ x^{28} + x^{18} + x^{16} + x^4, \\
p_{12}(x) &= x^{132} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{92} + x^{90} + x^{88} + x^{84} \\
&+ x^{82} + x^{80} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{44} + x^{42} + x^{40} \\
&+ x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} + x^{16} + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{132} + x^{130} + x^{128} + x^{126} + x^{122} + x^{118} + x^{110} + x^{104} + x^{102} + x^{98} \\
&+ x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{84} + x^{78} + x^{76} + x^{74} + x^{72} + x^{68} \\
&+ x^{62} + x^{56} + x^{54} + x^{48} + x^{44} + x^{36} + x^{30} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{128} + x^{126} + x^{122} + x^{118} + x^{116} + x^{114} + x^{112} + x^{108} + x^{106} + x^{104} \\
&+ x^{102} + x^{94} + x^{90} + x^{88} + x^{82} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} + x^{66} \\
&+ x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{48} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} \\
&+ x^{26} + x^{24}, \\
p_6(x) &= x^{126} + x^{124} + x^{122} + x^{112} + x^{102} + x^{96} + x^{90} + x^{84} + x^{66} + x^{64} + x^{62} \\
&+ x^{60} + x^{56} + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42} + x^{40} + x^{36} \\
&+ x^{34} + x^{28} + x^2 + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{128} + x^{126} + x^{124} + x^{122} + x^{116} + x^{114} + x^{110} + x^{108} + x^{100} + x^{94} \\
& + x^{88} + x^{86} + x^{80} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} \\
& + x^{56} + x^{54} + x^{52} + x^{48} + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{30} \\
& + x^{28} + x^{18} + x^{16} + x^4,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{132} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{92} + x^{90} + x^{88} + x^{84} \\
& + x^{82} + x^{80} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{44} + x^{42} + x^{40} \\
& + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} + x^{16} + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{121} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} + x^{107} + x^{106} \\
& + x^{105} + x^{103} + x^{102} + x^{99} + x^{97} + x^{95} + x^{93} + x^{91} + x^{88} + x^{87} + x^{85} \\
& + x^{84} + x^{81} + x^{79} + x^{78} + x^{77} + x^{76} + x^{73} + x^{71} + x^{68} + x^{67} + x^{65} \\
& + x^{64} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} \\
& + x^{48} + x^{45} + x^{44} + x^{43} + x^{38} + x^{37} + x^{36} + x^{30},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{96} + x^{92} + x^{88} + x^{80} + x^{78} + x^{74} \\
& + x^{70} + x^{60} + x^{54} + x^{52} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} \\
& + x^{26} + x^{24} + x^{20} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{114} + x^{111} + x^{109} + x^{107} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} \\
& + x^{93} + x^{92} + x^{89} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} \\
& + x^{73} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{53} \\
& + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{39} + x^{37} + x^{36} \\
& + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{24} + x^{22} + x^{20} + x^{18} \\
& + x^{13} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{98} + x^{90} + x^{86} + x^{78} \\
& + x^{74} + x^{68} + x^{58} + x^{56} + x^{54} + x^{44} + x^{36} + x^{30} + x^{28} + x^{26} + x^{22} \\
& + x^{20} + x^{12} + x^6,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{114} + x^{111} + x^{109} + x^{108} + x^{107} \\
& + x^{105} + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} \\
& + x^{91} + x^{90} + x^{89} + x^{88} + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} + x^{71} \\
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} \\
& + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} + x^{43} + x^{42} + x^{41} \\
& + x^{40} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{23} + x^{21} + x^{20} + x^{19} \\
& + x^{17} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^7 + x^5 + x^4 + x^3 \\
& + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{121} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} + x^{107} + x^{106} \\
&\quad + x^{105} + x^{103} + x^{102} + x^{99} + x^{97} + x^{95} + x^{93} + x^{91} + x^{88} + x^{87} + x^{85} \\
&\quad + x^{84} + x^{81} + x^{79} + x^{78} + x^{77} + x^{76} + x^{73} + x^{71} + x^{68} + x^{67} + x^{65} \\
&\quad + x^{64} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} \\
&\quad + x^{48} + x^{45} + x^{44} + x^{43} + x^{38} + x^{37} + x^{36} + x^{30}, \\
p_3(x) &= x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{96} + x^{92} + x^{88} + x^{80} + x^{78} + x^{74} \\
&\quad + x^{70} + x^{60} + x^{54} + x^{52} + x^{46} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} \\
&\quad + x^{26} + x^{24} + x^{20} + x^{18}, \\
p_6(x) &= x^{114} + x^{111} + x^{109} + x^{107} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} \\
&\quad + x^{93} + x^{92} + x^{89} + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} \\
&\quad + x^{73} + x^{70} + x^{69} + x^{66} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{53} \\
&\quad + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{39} + x^{37} + x^{36} \\
&\quad + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{24} + x^{22} + x^{20} + x^{18} \\
&\quad + x^{13} + x^{12}, \\
p_9(x) &= x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{106} + x^{98} + x^{90} + x^{86} + x^{78} \\
&\quad + x^{74} + x^{68} + x^{58} + x^{56} + x^{54} + x^{44} + x^{36} + x^{30} + x^{28} + x^{26} + x^{22} \\
&\quad + x^{20} + x^{12} + x^6, \\
p_{12}(x) &= x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{114} + x^{111} + x^{109} + x^{108} + x^{107} \\
&\quad + x^{105} + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{94} \\
&\quad + x^{91} + x^{90} + x^{89} + x^{88} + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{74} + x^{71} \\
&\quad + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} \\
&\quad + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} + x^{43} + x^{42} + x^{41} \\
&\quad + x^{40} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{23} + x^{21} + x^{20} + x^{19} \\
&\quad + x^{17} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^7 + x^5 + x^4 + x^3 \\
&\quad + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{120} + x^{118} + x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{98} + x^{96} + x^{94} \\
&\quad + x^{90} + x^{84} + x^{82} + x^{76} + x^{74} + x^{68} + x^{66} + x^{62} + x^{60} + x^{46} + x^{44} \\
&\quad + x^{38} + x^{36}, \\
p_3(x) &= x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{102} + x^{100} + x^{88} + x^{84} + x^{82} \\
&\quad + x^{72} + x^{70} + x^{66} + x^{62} + x^{60} + x^{56} + x^{54} + x^{52} + x^{46} + x^{44} + x^{40} \\
&\quad + x^{38} + x^{34} + x^{30} + x^{28} + x^{24} + x^{20} + x^{18} + x^{14} + x^{12}, \\
p_6(x) &= x^{114} + x^{110} + x^{108} + x^{104} + x^{102} + x^{92} + x^{88} + x^{82} + x^{76} + x^{70} + x^{66}
\end{aligned}$$

$$\begin{aligned}
& + x^{62} + x^{54} + x^{48} + x^{46} + x^{40} + x^{38} + x^{34} + x^{30} + x^{24} + x^{20} + x^{18} \\
& + x^{14} + x^8 + x^4 + 1, \\
p_9(x) &= x^{116} + x^{114} + x^{110} + x^{108} + x^{106} + x^{98} + x^{94} + x^{90} + x^{88} + x^{82} + x^{74} \\
& + x^{72} + x^{70} + x^{68} + x^{62} + x^{60} + x^{52} + x^{50} + x^{46} + x^{38} + x^{34} + x^{24} \\
& + x^{18} + x^{16} + x^6 + x^4, \\
p_{12}(x) &= x^{120} + x^{118} + x^{110} + x^{102} + x^{96} + x^{88} + x^{86} + x^{78} + x^{72} + x^{64} + x^{62} \\
& + x^{54} + x^{48} + x^{40} + x^{38} + x^{30} + x^{24} + x^{16} + x^{14} + x^6 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{122} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{100} + x^{98} + x^{94} + x^{92} \\
& + x^{89} + x^{86} + x^{85} + x^{83} + x^{80} + x^{77} + x^{74} + x^{73} + x^{70} + x^{69} + x^{66} \\
& + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} \\
& + x^{46} + x^{44} + x^{43} + x^{40} + x^{38} + x^{37} + x^{34} + x^{27} + x^{26} + x^{25} + x^{24}, \\
p_3(x) &= x^{118} + x^{115} + x^{114} + x^{113} + x^{109} + x^{104} + x^{96} + x^{95} + x^{94} + x^{93} \\
& + x^{92} + x^{87} + x^{83} + x^{81} + x^{77} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{69} \\
& + x^{67} + x^{65} + x^{64} + x^{61} + x^{59} + x^{58} + x^{57} + x^{55} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{42} + x^{38} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} \\
& + x^{20} + x^{19} + x^{18} + x^{17} + x^{16}, \\
p_6(x) &= x^{120} + x^{117} + x^{112} + x^{110} + x^{108} + x^{107} + x^{100} + x^{96} + x^{95} + x^{93} \\
& + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{83} + x^{77} + x^{73} + x^{69} + x^{67} + x^{66} \\
& + x^{65} + x^{64} + x^{63} + x^{61} + x^{59} + x^{58} + x^{52} + x^{50} + x^{49} + x^{46} + x^{44} \\
& + x^{43} + x^{42} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} \\
& + x^{27} + x^{25} + x^{23} + x^{21} + x^{15} + x^{13} + x^{12} + x^{10} + x^7 + x^5 + x^4 + x^3 \\
& + x^2 + x + 1, \\
p_9(x) &= x^{118} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{107} + x^{106} + x^{105} + x^{104} \\
& + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} \\
& + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{59} + x^{58} + x^{57} + x^{56} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} + x^{19} + x^{18} \\
& + x^{17} + x^{16} + x^{14} + x^{11} + x^{10} + x^9 + x^8, \\
p_{12}(x) &= x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{118} + x^{115} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{109} + x^{108} + x^{106} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{96} + x^{94} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} + x^{83} + x^{81} + x^{80} + x^{79} \\
& + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{66} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48}
\end{aligned}$$

$$\begin{aligned}
& + x^{46} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} \\
& + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{14} \\
& + x^{13} + x^{12} + x^{10} + x^7 + x^5 + x^4 + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{136} + x^{130} + x^{129} + x^{128} + x^{127} + x^{125} + x^{124} + x^{123} + x^{121} + x^{117} \\
&+ x^{115} + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{103} + x^{102} \\
&+ x^{100} + x^{99} + x^{97} + x^{95} + x^{93} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} \\
&+ x^{84} + x^{81} + x^{77} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{67} \\
&+ x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{52} + x^{51} + x^{50} \\
&+ x^{49} + x^{48} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} + x^{35} + x^{34} + x^{32} \\
&+ x^{31} + x^{30}, \\
p_3(x) &= x^{118} + x^{116} + x^{115} + x^{109} + x^{105} + x^{103} + x^{101} + x^{100} + x^{97} + x^{94} \\
&+ x^{93} + x^{90} + x^{88} + x^{86} + x^{82} + x^{81} + x^{79} + x^{76} + x^{71} + x^{70} + x^{68} \\
&+ x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} \\
&+ x^{53} + x^{52} + x^{50} + x^{47} + x^{45} + x^{43} + x^{42} + x^{40} + x^{39} + x^{37} + x^{36} \\
&+ x^{33} + x^{32} + x^{24} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{124} + x^{118} + x^{114} + x^{110} + x^{98} + x^{92} + x^{90} + x^{84} + x^{74} + x^{72} + x^{68} \\
&+ x^{64} + x^{62} + x^{60} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} \\
&+ x^{38} + x^{36} + x^{32} + x^{26} + x^{22} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{130} + x^{128} + x^{127} + x^{126} + x^{123} + x^{120} + x^{119} + x^{118} + x^{115} + x^{112} \\
&+ x^{111} + x^{108} + x^{103} + x^{102} + x^{98} + x^{96} + x^{95} + x^{94} + x^{91} + x^{88} \\
&+ x^{87} + x^{86} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{72} + x^{67} + x^{64} + x^{63} \\
&+ x^{60} + x^{55} + x^{54} + x^{50} + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} + x^{39} + x^{38} \\
&+ x^{35} + x^{34} + x^{30} + x^{28} + x^{27} + x^{24} + x^{19} + x^{16} + x^{15} + x^{12} + x^7 \\
&+ x^6, \\
p_{12}(x) &= x^{136} + x^{132} + x^{128} + x^{116} + x^{112} + x^{104} + x^{88} + x^{56} + x^{40} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{128} + x^{122} + x^{121} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{109} \\
&+ x^{107} + x^{106} + x^{104} + x^{103} + x^{101} + x^{100} + x^{97} + x^{93} + x^{87} + x^{86} \\
&+ x^{83} + x^{78} + x^{76} + x^{75} + x^{72} + x^{71} + x^{68} + x^{63} + x^{62} + x^{60} + x^{57} \\
&+ x^{54} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} \\
&+ x^{37} + x^{35} + x^{34} + x^{31} + x^{30}, \\
p_3(x) &= x^{110} + x^{108} + x^{107} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96}
\end{aligned}$$

$$\begin{aligned}
& + x^{92} + x^{89} + x^{87} + x^{85} + x^{82} + x^{77} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} \\
& + x^{67} + x^{66} + x^{64} + x^{63} + x^{61} + x^{60} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} \\
& + x^{51} + x^{49} + x^{48} + x^{45} + x^{44} + x^{42} + x^{40} + x^{39} + x^{36} + x^{32} + x^{31} \\
& + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{116} + x^{110} + x^{108} + x^{106} + x^{104} + x^{92} + x^{86} + x^{84} + x^{82} + x^{76} + x^{74} \\
& + x^{64} + x^{62} + x^{58} + x^{56} + x^{50} + x^{44} + x^{42} + x^{30} + x^{24} + x^{22} + x^{20} \\
& + x^{14} + x^{12}, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{118} + x^{115} + x^{114} + x^{110} + x^{108} + x^{107} + x^{106} \\
& + x^{103} + x^{102} + x^{90} + x^{88} + x^{87} + x^{86} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} \\
& + x^{72} + x^{67} + x^{66} + x^{62} + x^{60} + x^{59} + x^{58} + x^{55} + x^{54} + x^{42} + x^{40} \\
& + x^{39} + x^{38} + x^{35} + x^{34} + x^{30} + x^{28} + x^{27} + x^{24} + x^{19} + x^{18} + x^{14} \\
& + x^{12} + x^{11} + x^{10} + x^7 + x^6, \\
p_{12}(x) &= x^{128} + x^{124} + x^{92} + x^{80} + x^{76} + x^{64} + x^{44} + x^{32} + x^{28} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{122} + x^{121} + x^{117} + x^{114} + x^{111} + x^{110} + x^{106} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{99} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{91} + x^{88} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{78} + x^{77} + x^{75} + x^{69} + x^{68} + x^{61} \\
& + x^{60} + x^{58} + x^{56} + x^{51} + x^{46} + x^{45} + x^{43} + x^{42} + x^{38} + x^{37} + x^{36}, \\
p_3(x) &= x^{118} + x^{115} + x^{114} + x^{113} + x^{110} + x^{109} + x^{107} + x^{105} + x^{103} + x^{101} \\
& + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{86} + x^{83} + x^{82} + x^{81} \\
& + x^{79} + x^{78} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{68} + x^{67} + x^{65} \\
& + x^{64} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{49} + x^{48} \\
& + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} \\
& + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{22} + x^{21} + x^{20}, \\
p_6(x) &= x^{120} + x^{118} + x^{117} + x^{115} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{101} \\
& + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{92} + x^{89} + x^{88} + x^{87} \\
& + x^{84} + x^{82} + x^{77} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{59} + x^{56} + x^{55} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} \\
& + x^{39} + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{18} \\
& + x^{15} + x^{14} + x^{11} + x^9 + x^8 + x^7 + x^5 + x^4 + x^3 + x^2 + x + 1, \\
p_9(x) &= x^{118} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{107} + x^{106} + x^{105} + x^{104} \\
& + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} \\
& + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{59} + x^{58} + x^{57} + x^{56} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} + x^{19} + x^{18}
\end{aligned}$$

$$\begin{aligned}
& + x^{17} + x^{16} + x^{14} + x^{11} + x^{10} + x^9 + x^8, \\
p_{12}(x) = & x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{118} + x^{115} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{109} + x^{108} + x^{106} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{96} + x^{94} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} + x^{83} + x^{81} + x^{80} + x^{79} \\
& + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{66} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\
& + x^{46} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} \\
& + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{14} \\
& + x^{13} + x^{12} + x^{10} + x^7 + x^5 + x^4 + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{122} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} \\
& + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{100} + x^{98} + x^{94} + x^{92} \\
& + x^{89} + x^{86} + x^{85} + x^{83} + x^{80} + x^{77} + x^{74} + x^{73} + x^{70} + x^{69} + x^{66} \\
& + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} \\
& + x^{46} + x^{44} + x^{43} + x^{40} + x^{38} + x^{37} + x^{34} + x^{27} + x^{26} + x^{25} + x^{24}, \\
p_3(x) = & x^{118} + x^{115} + x^{114} + x^{113} + x^{109} + x^{104} + x^{96} + x^{95} + x^{94} + x^{93} \\
& + x^{92} + x^{87} + x^{83} + x^{81} + x^{77} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{69} \\
& + x^{67} + x^{65} + x^{64} + x^{61} + x^{59} + x^{58} + x^{57} + x^{55} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{42} + x^{38} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} \\
& + x^{20} + x^{19} + x^{18} + x^{17} + x^{16}, \\
p_6(x) = & x^{120} + x^{117} + x^{112} + x^{110} + x^{108} + x^{107} + x^{100} + x^{96} + x^{95} + x^{93} \\
& + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{83} + x^{77} + x^{73} + x^{69} + x^{67} + x^{66} \\
& + x^{65} + x^{64} + x^{63} + x^{61} + x^{59} + x^{58} + x^{52} + x^{50} + x^{49} + x^{46} + x^{44} \\
& + x^{43} + x^{42} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} \\
& + x^{27} + x^{25} + x^{23} + x^{21} + x^{15} + x^{13} + x^{12} + x^{10} + x^7 + x^5 + x^4 + x^3 \\
& + x^2 + x + 1, \\
p_9(x) = & x^{118} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{107} + x^{106} + x^{105} + x^{104} \\
& + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} \\
& + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{59} + x^{58} + x^{57} + x^{56} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} + x^{19} + x^{18} \\
& + x^{17} + x^{16} + x^{14} + x^{11} + x^{10} + x^9 + x^8, \\
p_{12}(x) = & x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{118} + x^{115} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{109} + x^{108} + x^{106} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{96} + x^{94} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} + x^{83} + x^{81} + x^{80} + x^{79}
\end{aligned}$$

$$\begin{aligned}
& + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{66} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\
& + x^{46} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} \\
& + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{14} \\
& + x^{13} + x^{12} + x^{10} + x^7 + x^5 + x^4 + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{128} + x^{122} + x^{121} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{109} \\
&+ x^{107} + x^{106} + x^{104} + x^{103} + x^{101} + x^{100} + x^{97} + x^{93} + x^{87} + x^{86} \\
&+ x^{83} + x^{78} + x^{76} + x^{75} + x^{72} + x^{71} + x^{68} + x^{63} + x^{62} + x^{60} + x^{57} \\
&+ x^{54} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} \\
&+ x^{37} + x^{35} + x^{34} + x^{31} + x^{30}, \\
p_3(x) &= x^{110} + x^{108} + x^{107} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\
&+ x^{92} + x^{89} + x^{87} + x^{85} + x^{82} + x^{77} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} \\
&+ x^{67} + x^{66} + x^{64} + x^{63} + x^{61} + x^{60} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} \\
&+ x^{51} + x^{49} + x^{48} + x^{45} + x^{44} + x^{42} + x^{40} + x^{39} + x^{36} + x^{32} + x^{31} \\
&+ x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{116} + x^{110} + x^{108} + x^{106} + x^{104} + x^{92} + x^{86} + x^{84} + x^{82} + x^{76} + x^{74} \\
&+ x^{64} + x^{62} + x^{58} + x^{56} + x^{50} + x^{44} + x^{42} + x^{30} + x^{24} + x^{22} + x^{20} \\
&+ x^{14} + x^{12}, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{118} + x^{115} + x^{114} + x^{110} + x^{108} + x^{107} + x^{106} \\
&+ x^{103} + x^{102} + x^{90} + x^{88} + x^{87} + x^{86} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} \\
&+ x^{72} + x^{67} + x^{66} + x^{62} + x^{60} + x^{59} + x^{58} + x^{55} + x^{54} + x^{42} + x^{40} \\
&+ x^{39} + x^{38} + x^{35} + x^{34} + x^{30} + x^{28} + x^{27} + x^{24} + x^{19} + x^{18} + x^{14} \\
&+ x^{12} + x^{11} + x^{10} + x^7 + x^6, \\
p_{12}(x) &= x^{128} + x^{124} + x^{92} + x^{80} + x^{76} + x^{64} + x^{44} + x^{32} + x^{28} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{136} + x^{130} + x^{129} + x^{128} + x^{127} + x^{125} + x^{124} + x^{123} + x^{121} + x^{117} \\
&+ x^{115} + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{103} + x^{102} \\
&+ x^{100} + x^{99} + x^{97} + x^{95} + x^{93} + x^{91} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} \\
&+ x^{84} + x^{81} + x^{77} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{67} \\
&+ x^{64} + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{52} + x^{51} + x^{50} \\
&+ x^{49} + x^{48} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} + x^{35} + x^{34} + x^{32} \\
&+ x^{31} + x^{30},
\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{118} + x^{116} + x^{115} + x^{109} + x^{105} + x^{103} + x^{101} + x^{100} + x^{97} + x^{94} \\
&\quad + x^{93} + x^{90} + x^{88} + x^{86} + x^{82} + x^{81} + x^{79} + x^{76} + x^{71} + x^{70} + x^{68} \\
&\quad + x^{66} + x^{65} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} \\
&\quad + x^{53} + x^{52} + x^{50} + x^{47} + x^{45} + x^{43} + x^{42} + x^{40} + x^{39} + x^{37} + x^{36} \\
&\quad + x^{33} + x^{32} + x^{24} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{124} + x^{118} + x^{114} + x^{110} + x^{98} + x^{92} + x^{90} + x^{84} + x^{74} + x^{72} + x^{68} \\
&\quad + x^{64} + x^{62} + x^{60} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} \\
&\quad + x^{38} + x^{36} + x^{32} + x^{26} + x^{22} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{130} + x^{128} + x^{127} + x^{126} + x^{123} + x^{120} + x^{119} + x^{118} + x^{115} + x^{112} \\
&\quad + x^{111} + x^{108} + x^{103} + x^{102} + x^{98} + x^{96} + x^{95} + x^{94} + x^{91} + x^{88} \\
&\quad + x^{87} + x^{86} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{72} + x^{67} + x^{64} + x^{63} \\
&\quad + x^{60} + x^{55} + x^{54} + x^{50} + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} + x^{39} + x^{38} \\
&\quad + x^{35} + x^{34} + x^{30} + x^{28} + x^{27} + x^{24} + x^{19} + x^{16} + x^{15} + x^{12} + x^7 \\
&\quad + x^6, \\
p_{12}(x) &= x^{136} + x^{132} + x^{128} + x^{116} + x^{112} + x^{104} + x^{88} + x^{56} + x^{40} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{122} + x^{121} + x^{117} + x^{114} + x^{111} + x^{110} + x^{106} + x^{105} \\
&\quad + x^{104} + x^{103} + x^{102} + x^{99} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{91} + x^{88} \\
&\quad + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{78} + x^{77} + x^{75} + x^{69} + x^{68} + x^{61} \\
&\quad + x^{60} + x^{58} + x^{56} + x^{51} + x^{46} + x^{45} + x^{43} + x^{42} + x^{38} + x^{37} + x^{36}, \\
p_3(x) &= x^{118} + x^{115} + x^{114} + x^{113} + x^{110} + x^{109} + x^{107} + x^{105} + x^{103} + x^{101} \\
&\quad + x^{99} + x^{98} + x^{96} + x^{94} + x^{93} + x^{91} + x^{90} + x^{86} + x^{83} + x^{82} + x^{81} \\
&\quad + x^{79} + x^{78} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{68} + x^{67} + x^{65} \\
&\quad + x^{64} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{49} + x^{48} \\
&\quad + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} \\
&\quad + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{22} + x^{21} + x^{20}, \\
p_6(x) &= x^{120} + x^{118} + x^{117} + x^{115} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{101} \\
&\quad + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{92} + x^{89} + x^{88} + x^{87} \\
&\quad + x^{84} + x^{82} + x^{77} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{65} \\
&\quad + x^{64} + x^{63} + x^{60} + x^{59} + x^{56} + x^{55} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} \\
&\quad + x^{39} + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{18} \\
&\quad + x^{15} + x^{14} + x^{11} + x^9 + x^8 + x^7 + x^5 + x^4 + x^3 + x^2 + x + 1, \\
p_9(x) &= x^{118} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{107} + x^{106} + x^{105} + x^{104} \\
&\quad + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70}
\end{aligned}$$

$$\begin{aligned}
& + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{59} + x^{58} + x^{57} + x^{56} + x^{38} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{22} + x^{19} + x^{18} \\
& + x^{17} + x^{16} + x^{14} + x^{11} + x^{10} + x^9 + x^8, \\
p_{12}(x) = & x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{118} + x^{115} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{109} + x^{108} + x^{106} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{96} + x^{94} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} + x^{83} + x^{81} + x^{80} + x^{79} \\
& + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{66} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\
& + x^{46} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{35} + x^{33} + x^{32} + x^{31} + x^{29} \\
& + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{15} + x^{14} \\
& + x^{13} + x^{12} + x^{10} + x^7 + x^5 + x^4 + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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]	2021	[3552, 3553]	4042	[6047, 6048]	6063	[7106, 7326]
1	[3, 4]	2022	[3554, 3555]	4043	[2530, 6049]	6064	[7154, 6889]
2	[5, 6]	2023	[3556, 1024]	4044	[6050, 5569]	6065	[6811, 7267]
3	[7, 8]	2024	[1437, 3557]	4045	[6051, 6030]	6066	[7541, 6808]
4	[9, 10]	2025	[3445, 3558]	4046	[6052, 5562]	6067	[4695, 6800]
5	[11, 12]	2026	[1692, 90]	4047	[2044, 2831]	6068	[7478, 4064]
6	[13, 14]	2027	[3559, 3560]	4048	[2229, 567]	6069	[4686, 7554]
7	[15, 16]	2028	[3561, 3562]	4049	[2185, 6053]	6070	[7555, 7556]
8	[17, 18]	2029	[3563, 3564]	4050	[6054, 6055]	6071	[7557, 3758]
9	[19, 20]	2030	[3565, 3566]	4051	[6056, 6057]	6072	[7558, 4749]
10	[21, 22]	2031	[1657, 3366]	4052	[2707, 2524]	6073	[7537, 1745]
11	[23, 24]	2032	[3567, 3568]	4053	[2076, 806]	6074	[4813, 7559]
12	[25, 26]	2033	[3569, 1371]	4054	[2481, 6058]	6075	[3698, 4555]
13	[27, 28]	2034	[3570, 3571]	4055	[2485, 5155]	6076	[7560, 1293]
14	[29, 30]	2035	[1423, 3572]	4056	[2487, 6026]	6077	[7148, 4502]
15	[31, 32]	2036	[1575, 3573]	4057	[5232, 2885]	6078	[3218, 6880]
16	[33, 34]	2037	[3574, 3575]	4058	[160, 6059]	6079	[6742, 7561]
17	[35, 36]	2038	[3576, 3577]	4059	[5676, 6060]	6080	[1321, 4711]
18	[37, 38]	2039	[3236, 1436]	4060	[5542, 6061]	6081	[4363, 7562]
19	[39, 40]	2040	[1018, 1618]	4061	[6062, 6063]	6082	[1196, 7563]
20	[41, 42]	2041	[3578, 1297]	4062	[2842, 6064]	6083	[6841, 7564]
21	[43, 44]	2042	[3579, 1742]	4063	[5382, 2908]	6084	[7507, 7565]
22	[45, 46]	2043	[1645, 3206]	4064	[6065, 131]	6085	[7402, 3981]
23	[2, 47]	2044	[3580, 3581]	4065	[6041, 6066]	6086	[3522, 6788]
24	[48, 49]	2045	[3582, 3583]	4066	[6067, 6068]	6087	[4623, 4839]

25	[50, 51]	2046	[1122, 3584]	4067	[611, 2065]	6088	[4159, 7566]
26	[52, 53]	2047	[3585, 3586]	4068	[2008, 2073]	6089	[4608, 4400]
27	[54, 55]	2048	[3587, 1545]	4069	[3024, 5827]	6090	[7334, 4692]
28	[56, 57]	2049	[3588, 3529]	4070	[2010, 6069]	6091	[4171, 6871]
29	[58, 59]	2050	[3589, 3590]	4071	[5477, 886]	6092	[4591, 3648]
30	[60, 61]	2051	[3591, 3592]	4072	[2209, 6070]	6093	[7567, 7370]
31	[62, 63]	2052	[3593, 3594]	4073	[6071, 6072]	6094	[7194, 6963]
32	[64, 65]	2053	[3595, 3596]	4074	[6038, 6073]	6095	[468, 4940]
33	[66, 67]	2054	[1737, 3597]	4075	[6074, 846]	6096	[6784, 7059]
34	[68, 69]	2055	[3144, 3598]	4076	[6075, 6076]	6097	[7022, 7155]
35	[70, 71]	2056	[3599, 960]	4077	[144, 4960]	6098	[7568, 7569]
36	[72, 73]	2057	[3600, 279]	4078	[6077, 6078]	6099	[3414, 7570]
37	[74, 75]	2058	[3601, 3602]	4079	[6079, 5116]	6100	[1064, 4028]
38	[76, 77]	2059	[3603, 1537]	4080	[5281, 6080]	6101	[1739, 7571]
39	[78, 79]	2060	[3604, 1627]	4081	[6081, 5085]	6102	[6868, 7572]
40	[80, 81]	2061	[3605, 3606]	4082	[5901, 5563]	6103	[4345, 3293]
41	[82, 83]	2062	[3607, 3608]	4083	[6082, 6083]	6104	[7573, 7574]
42	[84, 85]	2063	[1450, 3609]	4084	[2671, 3066]	6105	[7207, 7575]
43	[86, 87]	2064	[3610, 3611]	4085	[5387, 2902]	6106	[3730, 7368]
44	[88, 89]	2065	[3465, 3612]	4086	[6084, 6085]	6107	[7576, 1749]
45	[90, 91]	2066	[1183, 3613]	4087	[6086, 6087]	6108	[6956, 4224]
46	[92, 93]	2067	[1355, 3614]	4088	[6088, 1797]	6109	[6782, 4371]
47	[94, 95]	2068	[1715, 3615]	4089	[6089, 149]	6110	[3292, 4376]
48	[96, 97]	2069	[3616, 3617]	4090	[6090, 6091]	6111	[7265, 4868]
49	[98, 99]	2070	[978, 3618]	4091	[2786, 6092]	6112	[6835, 3182]
50	[100, 101]	2071	[3238, 3619]	4092	[6093, 2811]	6113	[6982, 3184]
51	[102, 103]	2072	[1349, 3490]	4093	[6094, 5936]	6114	[7577, 7195]
52	[104, 105]	2073	[3509, 3620]	4094	[5513, 6095]	6115	[7578, 6957]
53	[106, 107]	2074	[3495, 3621]	4095	[6096, 6097]	6116	[3294, 4842]
54	[4, 108]	2075	[3622, 3623]	4096	[5424, 6098]	6117	[4610, 6729]
55	[109, 110]	2076	[3624, 3625]	4097	[6099, 1758]	6118	[4755, 7000]
56	[111, 112]	2077	[3626, 3627]	4098	[603, 6100]	6119	[7243, 7519]
57	[113, 114]	2078	[3628, 3629]	4099	[6101, 6102]	6120	[4529, 404]
58	[115, 116]	2079	[1233, 3630]	4100	[5738, 6103]	6121	[7579, 3744]
59	[117, 118]	2080	[3631, 3632]	4101	[6104, 6105]	6122	[1177, 4176]
60	[119, 120]	2081	[3633, 3634]	4102	[6106, 5746]	6123	[7580, 380]
61	[121, 122]	2082	[3635, 3636]	4103	[6107, 3105]	6124	[4213, 3958]
62	[123, 124]	2083	[3637, 3638]	4104	[6108, 6109]	6125	[4301, 7302]
63	[125, 126]	2084	[3639, 3640]	4105	[6110, 5439]	6126	[7581, 3352]
64	[127, 128]	2085	[3641, 3642]	4106	[6111, 5488]	6127	[7582, 66]
65	[129, 130]	2086	[3643, 3644]	4107	[6112, 6113]	6128	[1411, 7295]
66	[131, 132]	2087	[3645, 3646]	4108	[6114, 6036]	6129	[114, 7583]
67	[133, 134]	2088	[3339, 3647]	4109	[6115, 6116]	6130	[7427, 1164]
68	[135, 136]	2089	[3648, 3649]	4110	[6117, 5323]	6131	[7584, 4398]

69	[137, 138]	2090	[311, 3650]	4111	[5812, 125]	6132	[3849, 3214]
70	[139, 140]	2091	[3651, 330]	4112	[2673, 836]	6133	[4872, 6966]
71	[141, 142]	2092	[3652, 332]	4113	[6118, 6119]	6134	[7585, 7586]
72	[143, 144]	2093	[3653, 3341]	4114	[5201, 6120]	6135	[4278, 7587]
73	[145, 146]	2094	[3654, 3655]	4115	[6121, 2147]	6136	[3383, 3940]
74	[147, 148]	2095	[3656, 3657]	4116	[6122, 2226]	6137	[7588, 7589]
75	[149, 150]	2096	[3658, 3659]	4117	[6123, 191]	6138	[3846, 1719]
76	[151, 152]	2097	[3660, 3661]	4118	[564, 6124]	6139	[4156, 3454]
77	[153, 154]	2098	[3662, 3663]	4119	[6014, 6125]	6140	[1313, 4226]
78	[155, 156]	2099	[1704, 3664]	4120	[6126, 6127]	6141	[3962, 3587]
79	[157, 158]	2100	[107, 3665]	4121	[6128, 6129]	6142	[4474, 7590]
80	[159, 160]	2101	[1506, 3523]	4122	[1869, 5998]	6143	[1489, 7331]
81	[161, 162]	2102	[3666, 1011]	4123	[6130, 5359]	6144	[7369, 1253]
82	[163, 164]	2103	[3667, 1388]	4124	[5074, 2328]	6145	[4689, 1197]
83	[165, 166]	2104	[3668, 3669]	4125	[665, 6131]	6146	[6919, 4927]
84	[167, 168]	2105	[3670, 386]	4126	[5186, 3052]	6147	[6758, 4114]
85	[169, 170]	2106	[3671, 3672]	4127	[2701, 6132]	6148	[4307, 4116]
86	[171, 172]	2107	[3673, 1168]	4128	[6133, 5634]	6149	[6904, 3418]
87	[173, 174]	2108	[3674, 3675]	4129	[6134, 6135]	6150	[6773, 4001]
88	[175, 176]	2109	[3676, 3677]	4130	[6025, 5243]	6151	[71, 7591]
89	[177, 178]	2110	[3678, 1009]	4131	[790, 6136]	6152	[7492, 4153]
90	[179, 180]	2111	[3679, 3532]	4132	[6137, 6138]	6153	[7564, 4155]
91	[181, 182]	2112	[3680, 1172]	4133	[6139, 1959]	6154	[4809, 7592]
92	[183, 184]	2113	[3681, 3682]	4134	[6140, 6141]	6155	[7488, 4193]
93	[185, 186]	2114	[3683, 3684]	4135	[5716, 6142]	6156	[1304, 7408]
94	[187, 188]	2115	[3685, 3686]	4136	[6143, 5694]	6157	[7593, 6865]
95	[189, 190]	2116	[3687, 3688]	4137	[6144, 5627]	6158	[7061, 1314]
96	[191, 192]	2117	[3689, 3690]	4138	[2029, 6145]	6159	[7594, 3728]
97	[193, 194]	2118	[3691, 3692]	4139	[5501, 6146]	6160	[7595, 7084]
98	[195, 196]	2119	[3693, 3694]	4140	[6147, 6148]	6161	[7596, 7082]
99	[197, 198]	2120	[3695, 3696]	4141	[2986, 6149]	6162	[4888, 3827]
100	[199, 200]	2121	[3697, 3698]	4142	[6150, 5063]	6163	[7597, 4596]
101	[201, 202]	2122	[3699, 3700]	4143	[2045, 2860]	6164	[7162, 3433]
102	[203, 204]	2123	[3701, 3702]	4144	[870, 3075]	6165	[7598, 3724]
103	[205, 206]	2124	[3703, 3704]	4145	[5315, 6151]	6166	[1678, 4338]
104	[206, 207]	2125	[3705, 3706]	4146	[6152, 6153]	6167	[7517, 281]
105	[208, 209]	2126	[3707, 3708]	4147	[2271, 5895]	6168	[3886, 3342]
106	[210, 211]	2127	[3709, 3710]	4148	[2990, 6154]	6169	[7599, 7263]
107	[212, 213]	2128	[1527, 3711]	4149	[6155, 2450]	6170	[1474, 7600]
108	[8, 214]	2129	[3712, 3713]	4150	[675, 6156]	6171	[6740, 6879]
109	[215, 216]	2130	[389, 3714]	4151	[2886, 5890]	6172	[3380, 4039]
110	[217, 218]	2131	[3715, 3716]	4152	[6157, 2921]	6173	[4582, 7601]
111	[219, 220]	2132	[3717, 3718]	4153	[5330, 5908]	6174	[7019, 6756]
112	[221, 222]	2133	[3719, 3720]	4154	[6158, 6159]	6175	[1665, 3268]

113	[223, 224]	2134	[355, 3721]	4155	[6160, 5388]	6176	[1628, 3603]
114	[225, 226]	2135	[3722, 3723]	4156	[6161, 5377]	6177	[7525, 7602]
115	[227, 228]	2136	[3724, 3725]	4157	[6162, 834]	6178	[6828, 7404]
116	[229, 230]	2137	[3726, 3727]	4158	[525, 5433]	6179	[7412, 7378]
117	[231, 232]	2138	[3728, 426]	4159	[6163, 2621]	6180	[3949, 6857]
118	[233, 234]	2139	[3729, 3730]	4160	[5975, 5033]	6181	[7429, 4403]
119	[235, 236]	2140	[3731, 1581]	4161	[3031, 5884]	6182	[246, 7598]
120	[237, 238]	2141	[3732, 3733]	4162	[6164, 6165]	6183	[4018, 3208]
121	[239, 240]	2142	[3734, 3735]	4163	[861, 1961]	6184	[7603, 7142]
122	[241, 242]	2143	[3736, 3737]	4164	[3015, 6166]	6185	[7604, 4358]
123	[243, 244]	2144	[3738, 275]	4165	[6167, 5957]	6186	[7605, 7340]
124	[245, 246]	2145	[3739, 3740]	4166	[2242, 6168]	6187	[7606, 3198]
125	[247, 248]	2146	[3741, 3742]	4167	[6169, 5041]	6188	[7607, 7608]
126	[249, 250]	2147	[1120, 3743]	4168	[5062, 6170]	6189	[7521, 7609]
127	[251, 252]	2148	[3744, 1264]	4169	[6171, 6172]	6190	[7608, 7424]
128	[253, 254]	2149	[437, 3745]	4170	[5465, 5435]	6191	[6727, 1377]
129	[255, 256]	2150	[1611, 1660]	4171	[6173, 5039]	6192	[7192, 4727]
130	[257, 258]	2151	[3746, 3747]	4172	[6174, 6175]	6193	[7297, 3269]
131	[259, 260]	2152	[3748, 3715]	4173	[6176, 6177]	6194	[4778, 7178]
132	[261, 262]	2153	[3725, 3749]	4174	[6178, 6179]	6195	[7562, 7594]
133	[263, 264]	2154	[3750, 3751]	4175	[2916, 3119]	6196	[7610, 4800]
134	[265, 266]	2155	[3752, 3753]	4176	[5967, 5892]	6197	[4472, 7611]
135	[267, 268]	2156	[3296, 3368]	4177	[128, 2899]	6198	[7612, 7004]
136	[269, 270]	2157	[3754, 3755]	4178	[589, 5432]	6199	[3562, 1532]
137	[271, 272]	2158	[3756, 3757]	4179	[6180, 5122]	6200	[7017, 7613]
138	[273, 274]	2159	[3758, 3759]	4180	[5544, 5124]	6201	[7290, 7614]
139	[275, 276]	2160	[952, 352]	4181	[6181, 5291]	6202	[3436, 7384]
140	[277, 278]	2161	[3760, 3761]	4182	[6182, 5801]	6203	[4067, 4625]
141	[279, 280]	2162	[3762, 3763]	4183	[6148, 2396]	6204	[4914, 4756]
142	[281, 282]	2163	[3764, 3765]	4184	[2943, 6183]	6205	[6842, 7110]
143	[283, 284]	2164	[3766, 1242]	4185	[6184, 6185]	6206	[7615, 1587]
144	[285, 286]	2165	[3583, 3767]	4186	[4965, 2746]	6207	[7616, 7038]
145	[287, 288]	2166	[3176, 3768]	4187	[6186, 2256]	6208	[6717, 7323]
146	[289, 290]	2167	[954, 3769]	4188	[2854, 2501]	6209	[464, 7152]
147	[291, 292]	2168	[3770, 3771]	4189	[2367, 6187]	6210	[4000, 3483]
148	[293, 294]	2169	[1039, 3772]	4190	[2035, 2816]	6211	[7617, 7504]
149	[295, 296]	2170	[3450, 3773]	4191	[828, 6188]	6212	[7494, 7276]
150	[297, 298]	2171	[3774, 3775]	4192	[6005, 5163]	6213	[1404, 3732]
151	[299, 300]	2172	[3776, 3777]	4193	[6125, 6189]	6214	[359, 4896]
152	[301, 302]	2173	[3778, 3779]	4194	[6190, 2138]	6215	[936, 3938]
153	[303, 304]	2174	[3780, 3781]	4195	[4974, 6191]	6216	[7618, 7275]
154	[305, 306]	2175	[3782, 3783]	4196	[5589, 880]	6217	[4142, 7619]
155	[307, 102]	2176	[3784, 3785]	4197	[6192, 6193]	6218	[7620, 1178]
156	[308, 309]	2177	[1517, 3786]	4198	[6194, 6195]	6219	[6881, 7068]

157	[310, 311]	2178	[3787, 3788]	4199	[6196, 6197]	6220	[1151, 7230]
158	[312, 313]	2179	[3789, 3790]	4200	[6198, 6199]	6221	[7553, 3178]
159	[314, 315]	2180	[1280, 3791]	4201	[6200, 6201]	6222	[7621, 7622]
160	[316, 317]	2181	[3227, 3792]	4202	[6202, 6203]	6223	[4020, 1396]
161	[318, 319]	2182	[3793, 394]	4203	[6204, 3003]	6224	[7139, 7623]
162	[320, 321]	2183	[3367, 3794]	4204	[6205, 5405]	6225	[105, 7214]
163	[322, 323]	2184	[3795, 3796]	4205	[2562, 5699]	6226	[300, 7094]
164	[324, 325]	2185	[3797, 3798]	4206	[5127, 2017]	6227	[3596, 7584]
165	[326, 327]	2186	[3799, 3800]	4207	[2661, 2736]	6228	[7624, 7625]
166	[328, 329]	2187	[1429, 3801]	4208	[1778, 6206]	6229	[3142, 1350]
167	[330, 331]	2188	[3802, 3803]	4209	[6168, 4999]	6230	[4556, 4390]
168	[332, 333]	2189	[3804, 3805]	4210	[6207, 6208]	6231	[6704, 7626]
169	[334, 335]	2190	[3806, 3807]	4211	[236, 6209]	6232	[7423, 7579]
170	[336, 337]	2191	[3808, 3809]	4212	[6210, 577]	6233	[470, 7627]
171	[338, 339]	2192	[3810, 3811]	4213	[6211, 5964]	6234	[7619, 7628]
172	[340, 341]	2193	[3812, 3813]	4214	[6212, 519]	6235	[6761, 7629]
173	[342, 343]	2194	[3814, 450]	4215	[5652, 2750]	6236	[85, 370]
174	[344, 345]	2195	[3815, 3816]	4216	[242, 6213]	6237	[7630, 4557]
175	[346, 347]	2196	[3817, 3460]	4217	[6214, 5674]	6238	[7060, 7477]
176	[348, 349]	2197	[3753, 3818]	4218	[6215, 5372]	6239	[7058, 4099]
177	[350, 351]	2198	[3819, 3820]	4219	[2016, 2672]	6240	[331, 7037]
178	[352, 353]	2199	[3821, 3822]	4220	[5469, 6216]	6241	[970, 7229]
179	[354, 355]	2200	[3823, 3824]	4221	[1805, 2628]	6242	[4704, 4312]
180	[356, 357]	2201	[3825, 3826]	4222	[6217, 692]	6243	[3655, 3385]
181	[358, 359]	2202	[3827, 3828]	4223	[6218, 5461]	6244	[3620, 7607]
182	[360, 361]	2203	[3829, 3830]	4224	[6219, 5553]	6245	[4716, 7631]
183	[362, 363]	2204	[3831, 3817]	4225	[6220, 5560]	6246	[4856, 4135]
184	[364, 365]	2205	[3133, 3832]	4226	[5245, 5474]	6247	[4675, 7547]
185	[366, 367]	2206	[3833, 3834]	4227	[6221, 6222]	6248	[4423, 3666]
186	[368, 369]	2207	[3742, 3835]	4228	[5550, 5717]	6249	[4640, 7311]
187	[370, 371]	2208	[3836, 3837]	4229	[6223, 6224]	6250	[4913, 7049]
188	[372, 373]	2209	[3838, 3839]	4230	[2443, 2250]	6251	[7590, 7050]
189	[374, 375]	2210	[3840, 1390]	4231	[6225, 1874]	6252	[7225, 7516]
190	[376, 377]	2211	[3841, 3842]	4232	[928, 6226]	6253	[7389, 3925]
191	[378, 379]	2212	[1070, 3154]	4233	[6227, 6228]	6254	[7632, 1218]
192	[380, 381]	2213	[3832, 3843]	4234	[2846, 5598]	6255	[6939, 4631]
193	[382, 383]	2214	[1202, 3844]	4235	[6229, 6230]	6256	[7313, 7510]
194	[384, 385]	2215	[3845, 3846]	4236	[6231, 6232]	6257	[4313, 7633]
195	[386, 387]	2216	[3545, 3847]	4237	[6233, 6152]	6258	[335, 7237]
196	[388, 389]	2217	[1687, 3848]	4238	[673, 3023]	6259	[1103, 3633]
197	[390, 391]	2218	[3151, 3678]	4239	[5070, 6234]	6260	[7634, 3852]
198	[392, 393]	2219	[1582, 3849]	4240	[6235, 6236]	6261	[1359, 4507]
199	[394, 395]	2220	[3850, 3851]	4241	[6237, 5010]	6262	[7197, 4679]
200	[396, 397]	2221	[3852, 3853]	4242	[6238, 2362]	6263	[4346, 7635]

201	[398, 399]	2222	[3854, 3855]	4243	[6239, 6240]	6264	[7235, 6733]
202	[400, 401]	2223	[3263, 3856]	4244	[6241, 6220]	6265	[4499, 7538]
203	[402, 403]	2224	[3857, 1268]	4245	[6242, 2545]	6266	[4930, 6793]
204	[404, 405]	2225	[3858, 3859]	4246	[5779, 6000]	6267	[7520, 7610]
205	[406, 407]	2226	[1261, 3860]	4247	[6243, 5293]	6268	[7636, 3836]
206	[408, 409]	2227	[3861, 3862]	4248	[2074, 6244]	6269	[7637, 1530]
207	[410, 411]	2228	[3863, 3864]	4249	[6245, 6162]	6270	[1259, 314]
208	[412, 413]	2229	[1074, 3865]	4250	[1762, 6246]	6271	[7353, 3658]
209	[414, 415]	2230	[3866, 3867]	4251	[2982, 6247]	6272	[1317, 4446]
210	[416, 417]	2231	[3868, 3869]	4252	[6248, 5371]	6273	[7638, 4279]
211	[418, 419]	2232	[3870, 3871]	4253	[6249, 5484]	6274	[4789, 4296]
212	[420, 421]	2233	[3872, 3873]	4254	[6250, 6251]	6275	[1420, 4298]
213	[422, 423]	2234	[3874, 3875]	4255	[5557, 6252]	6276	[7264, 7498]
214	[16, 418]	2235	[3876, 1629]	4256	[6253, 6254]	6277	[7167, 3505]
215	[424, 425]	2236	[3877, 1176]	4257	[6255, 6133]	6278	[7362, 1599]
216	[426, 427]	2237	[3878, 3879]	4258	[6256, 632]	6279	[3859, 7639]
217	[428, 429]	2238	[3880, 1610]	4259	[5532, 5729]	6280	[4681, 4061]
218	[430, 431]	2239	[3881, 3882]	4260	[6257, 6037]	6281	[1296, 4477]
219	[432, 433]	2240	[3883, 3884]	4261	[5659, 6258]	6282	[3737, 6716]
220	[434, 435]	2241	[3885, 3886]	4262	[6259, 6260]	6283	[7001, 7354]
221	[436, 437]	2242	[3887, 3888]	4263	[6261, 770]	6284	[7640, 3235]
222	[438, 439]	2243	[3889, 3890]	4264	[6262, 6263]	6285	[7641, 7465]
223	[440, 441]	2244	[3891, 3892]	4265	[6264, 867]	6286	[4754, 7642]
224	[442, 443]	2245	[3893, 3894]	4266	[5008, 6265]	6287	[6970, 1119]
225	[444, 445]	2246	[980, 3895]	4267	[6266, 5990]	6288	[7559, 1726]
226	[446, 447]	2247	[254, 3896]	4268	[6267, 5131]	6289	[4928, 7451]
227	[448, 449]	2248	[3897, 3898]	4269	[5613, 6268]	6290	[1351, 3559]
228	[450, 451]	2249	[3899, 1695]	4270	[6269, 5727]	6291	[3181, 6774]
229	[452, 398]	2250	[3669, 3900]	4271	[6270, 4979]	6292	[7626, 7472]
230	[453, 454]	2251	[3901, 3902]	4272	[5042, 2315]	6293	[6922, 7585]
231	[455, 456]	2252	[3903, 1722]	4273	[697, 6271]	6294	[7479, 7491]
232	[457, 458]	2253	[3904, 1189]	4274	[2607, 6272]	6295	[7347, 3256]
233	[459, 460]	2254	[1288, 3905]	4275	[2609, 2594]	6296	[7643, 4005]
234	[461, 462]	2255	[3906, 3907]	4276	[727, 6273]	6297	[7644, 4774]
235	[463, 464]	2256	[3908, 3866]	4277	[2000, 5731]	6298	[3996, 7645]
236	[465, 466]	2257	[3909, 953]	4278	[6274, 6275]	6299	[7646, 7647]
237	[467, 468]	2258	[3910, 3911]	4279	[809, 6276]	6300	[3279, 4517]
238	[469, 470]	2259	[3912, 3175]	4280	[2781, 6277]	6301	[7600, 4070]
239	[471, 472]	2260	[1491, 3913]	4281	[6278, 6279]	6302	[3300, 6836]
240	[473, 474]	2261	[3914, 3915]	4282	[6280, 5512]	6303	[1548, 6837]
241	[475, 476]	2262	[3916, 3917]	4283	[6272, 6093]	6304	[375, 4404]
242	[477, 478]	2263	[3918, 3703]	4284	[5644, 6096]	6305	[6937, 7648]
243	[479, 480]	2264	[3919, 3920]	4285	[2199, 6281]	6306	[6853, 7649]
244	[481, 482]	2265	[3921, 3922]	4286	[887, 6250]	6307	[7592, 7470]

245	[483, 484]	2266	[3923, 3924]	4287	[2144, 6282]	6308	[1552, 1541]
246	[485, 486]	2267	[3925, 3926]	4288	[6283, 799]	6309	[3349, 4262]
247	[487, 488]	2268	[3927, 3928]	4289	[2997, 5740]	6310	[6816, 7604]
248	[489, 490]	2269	[3929, 338]	4290	[5897, 6284]	6311	[3560, 7650]
249	[491, 492]	2270	[3930, 3662]	4291	[2817, 6086]	6312	[4534, 3610]
250	[493, 494]	2271	[3800, 1393]	4292	[5988, 5282]	6313	[3192, 3697]
251	[495, 496]	2272	[3931, 3538]	4293	[2643, 5212]	6314	[3623, 3838]
252	[497, 498]	2273	[1672, 3932]	4294	[6285, 5545]	6315	[6710, 6877]
253	[499, 500]	2274	[1503, 1228]	4295	[6286, 6106]	6316	[7623, 1713]
254	[501, 502]	2275	[1755, 3933]	4296	[2631, 6287]	6317	[3865, 7621]
255	[503, 504]	2276	[1448, 1547]	4297	[6288, 6248]	6318	[6965, 7651]
256	[505, 506]	2277	[3934, 3481]	4298	[5016, 6289]	6319	[6873, 7652]
257	[507, 508]	2278	[3935, 3936]	4299	[2611, 5494]	6320	[6985, 3485]
258	[509, 510]	2279	[3644, 3937]	4300	[700, 6290]	6321	[413, 3551]
259	[511, 512]	2280	[3938, 3939]	4301	[5538, 6291]	6322	[4757, 6708]
260	[513, 514]	2281	[3940, 3877]	4302	[6292, 6293]	6323	[7497, 7653]
261	[515, 516]	2282	[1087, 3808]	4303	[6294, 5289]	6324	[3807, 7288]
262	[517, 518]	2283	[3941, 3942]	4304	[6295, 1839]	6325	[1263, 3552]
263	[519, 520]	2284	[3943, 3944]	4305	[1926, 5745]	6326	[1382, 3883]
264	[521, 522]	2285	[3945, 1408]	4306	[609, 6296]	6327	[4783, 7256]
265	[486, 523]	2286	[3946, 3947]	4307	[3100, 6123]	6328	[1163, 7640]
266	[524, 525]	2287	[3948, 3949]	4308	[2262, 5258]	6329	[6748, 3354]
267	[526, 527]	2288	[3950, 3951]	4309	[6297, 3047]	6330	[6925, 1170]
268	[528, 529]	2289	[3952, 3953]	4310	[12, 5514]	6331	[7654, 7218]
269	[530, 531]	2290	[3954, 3955]	4311	[1852, 6298]	6332	[4060, 7422]
270	[532, 533]	2291	[3956, 3957]	4312	[6299, 6300]	6333	[4389, 7606]
271	[534, 535]	2292	[3958, 3959]	4313	[6301, 575]	6334	[7496, 7463]
272	[536, 537]	2293	[3960, 965]	4314	[3086, 2415]	6335	[7543, 1061]
273	[538, 539]	2294	[3961, 1422]	4315	[5980, 4982]	6336	[387, 6891]
274	[540, 541]	2295	[3464, 3962]	4316	[6302, 6303]	6337	[3915, 3191]
275	[542, 543]	2296	[3564, 3963]	4317	[6304, 6239]	6338	[6806, 7655]
276	[544, 545]	2297	[3964, 3965]	4318	[6305, 6306]	6339	[6818, 7342]
277	[546, 547]	2298	[3966, 3967]	4319	[6307, 1957]	6340	[7627, 7343]
278	[548, 235]	2299	[3968, 3969]	4320	[6308, 5549]	6341	[18, 4834]
279	[549, 550]	2300	[3592, 3970]	4321	[6132, 6309]	6342	[7635, 7016]
280	[551, 552]	2301	[3971, 3972]	4322	[5182, 6310]	6343	[7574, 4574]
281	[553, 554]	2302	[3973, 3974]	4323	[6251, 5336]	6344	[7609, 7576]
282	[555, 556]	2303	[3975, 3976]	4324	[6311, 734]	6345	[4002, 7596]
283	[557, 558]	2304	[3977, 3978]	4325	[2141, 6312]	6346	[1252, 7568]
284	[559, 560]	2305	[3979, 3980]	4326	[763, 2521]	6347	[65, 4495]
285	[561, 562]	2306	[3981, 3982]	4327	[6313, 2275]	6348	[7329, 1278]
286	[563, 564]	2307	[3983, 3977]	4328	[1800, 6313]	6349	[7387, 4816]
287	[565, 566]	2308	[3438, 3637]	4329	[6314, 2208]	6350	[4164, 7224]
288	[567, 568]	2309	[3984, 3985]	4330	[1883, 873]	6351	[7129, 7656]

289	[569, 570]	2310	[3986, 1038]	4331	[6315, 1977]	6352	[4846, 3738]
290	[571, 572]	2311	[1046, 3987]	4332	[2996, 6316]	6353	[7166, 7657]
291	[573, 574]	2312	[1556, 3988]	4333	[5059, 761]	6354	[6801, 7620]
292	[575, 576]	2313	[3989, 3990]	4334	[6177, 6173]	6355	[7658, 7659]
293	[577, 578]	2314	[3991, 3992]	4335	[5739, 664]	6356	[7660, 7444]
294	[579, 580]	2315	[3993, 3239]	4336	[6317, 732]	6357	[7561, 94]
295	[581, 582]	2316	[3994, 3762]	4337	[6053, 5966]	6358	[7639, 1356]
296	[583, 559]	2317	[3995, 3996]	4338	[6318, 5466]	6359	[7385, 3565]
297	[584, 585]	2318	[3337, 70]	4339	[5989, 5919]	6360	[7089, 7367]
298	[586, 587]	2319	[3997, 3998]	4340	[776, 6143]	6361	[4139, 7522]
299	[588, 589]	2320	[3999, 4000]	4341	[6319, 6110]	6362	[1409, 7236]
300	[590, 591]	2321	[4001, 4002]	4342	[6320, 6321]	6363	[3215, 7435]
301	[592, 593]	2322	[4003, 4004]	4343	[6322, 2063]	6364	[7661, 6734]
302	[594, 595]	2323	[4005, 1166]	4344	[5322, 2398]	6365	[4186, 1504]
303	[596, 597]	2324	[4006, 4007]	4345	[6323, 5204]	6366	[379, 7117]
304	[598, 599]	2325	[4008, 4009]	4346	[6324, 2820]	6367	[6999, 3533]
305	[600, 601]	2326	[4010, 414]	4347	[6325, 6326]	6368	[4244, 4443]
306	[602, 603]	2327	[4011, 4012]	4348	[6063, 6327]	6369	[7662, 1708]
307	[604, 605]	2328	[4013, 4014]	4349	[5325, 6286]	6370	[4639, 4010]
308	[606, 607]	2329	[4015, 4016]	4350	[6097, 2565]	6371	[7483, 1481]
309	[608, 609]	2330	[4017, 3166]	4351	[6328, 6329]	6372	[4447, 6769]
310	[610, 611]	2331	[1307, 4018]	4352	[6330, 604]	6373	[3306, 3923]
311	[612, 613]	2332	[4019, 4020]	4353	[6331, 694]	6374	[7663, 1457]
312	[614, 615]	2333	[1380, 3916]	4354	[6332, 6333]	6375	[1105, 7616]
313	[616, 617]	2334	[280, 3446]	4355	[234, 6334]	6376	[1617, 7324]
314	[618, 619]	2335	[3276, 4021]	4356	[6066, 6335]	6377	[4884, 7664]
315	[620, 621]	2336	[4022, 4023]	4357	[6001, 6336]	6378	[4900, 7595]
316	[622, 623]	2337	[4024, 4025]	4358	[6337, 6338]	6379	[7665, 7254]
317	[624, 625]	2338	[3617, 4026]	4359	[6083, 6339]	6380	[3376, 7270]
318	[626, 627]	2339	[4027, 1201]	4360	[2047, 5664]	6381	[4366, 1139]
319	[628, 629]	2340	[4028, 4029]	4361	[6064, 6028]	6382	[1173, 986]
320	[630, 631]	2341	[4030, 4031]	4362	[6339, 6340]	6383	[7439, 7641]
321	[632, 633]	2342	[4032, 4033]	4363	[6341, 2042]	6384	[1493, 7665]
322	[634, 635]	2343	[4034, 4035]	4364	[5920, 6342]	6385	[4733, 7666]
323	[636, 637]	2344	[371, 4036]	4365	[6343, 6344]	6386	[3775, 7667]
324	[638, 639]	2345	[4037, 4038]	4366	[6326, 5543]	6387	[7668, 7603]
325	[640, 641]	2346	[3664, 3346]	4367	[5640, 505]	6388	[7278, 7199]
326	[642, 643]	2347	[4039, 4040]	4368	[5588, 6345]	6389	[7310, 7669]
327	[644, 645]	2348	[1499, 4041]	4369	[6346, 6205]	6390	[4634, 7670]
328	[646, 647]	2349	[4042, 4043]	4370	[5348, 5143]	6391	[1733, 4780]
329	[648, 649]	2350	[4044, 4045]	4371	[6078, 5145]	6392	[3386, 1152]
330	[650, 651]	2351	[4046, 1117]	4372	[805, 5169]	6393	[7554, 289]
331	[652, 653]	2352	[4047, 4048]	4373	[6347, 2839]	6394	[1031, 7636]
332	[654, 655]	2353	[1211, 4049]	4374	[6348, 3054]	6395	[7156, 7549]

333	[656, 657]	2354	[409, 4050]	4375	[6146, 6349]	6396	[3163, 4594]
334	[658, 659]	2355	[4051, 4052]	4376	[3113, 5845]	6397	[7671, 4706]
335	[660, 661]	2356	[3611, 4053]	4377	[5160, 6350]	6398	[945, 463]
336	[662, 663]	2357	[4054, 1386]	4378	[6098, 6351]	6399	[7434, 7672]
337	[664, 665]	2358	[4055, 4056]	4379	[6352, 6353]	6400	[7374, 4849]
338	[666, 667]	2359	[4057, 3585]	4380	[6354, 736]	6401	[4413, 3874]
339	[668, 669]	2360	[81, 4058]	4381	[6355, 6356]	6402	[7673, 3941]
340	[670, 671]	2361	[4059, 4060]	4382	[5079, 2344]	6403	[3282, 3356]
341	[672, 673]	2362	[4061, 434]	4383	[6172, 2346]	6404	[4173, 7372]
342	[674, 675]	2363	[4062, 4063]	4384	[845, 6357]	6405	[6791, 7674]
343	[676, 677]	2364	[4064, 3548]	4385	[5370, 1893]	6406	[7291, 459]
344	[678, 679]	2365	[4065, 4066]	4386	[2466, 5510]	6407	[4109, 7341]
345	[680, 681]	2366	[1659, 4067]	4387	[6293, 5905]	6408	[4854, 7227]
346	[682, 683]	2367	[4068, 4069]	4388	[4961, 6358]	6409	[3549, 7675]
347	[684, 685]	2368	[4070, 1668]	4389	[2878, 6359]	6410	[4178, 7198]
348	[686, 687]	2369	[1298, 4071]	4390	[6360, 6269]	6411	[4436, 4324]
349	[688, 689]	2370	[4072, 4073]	4391	[6361, 2517]	6412	[7676, 4092]
350	[690, 691]	2371	[4074, 4075]	4392	[5844, 6362]	6413	[4485, 7508]
351	[692, 693]	2372	[4076, 4077]	4393	[5840, 6363]	6414	[7532, 6832]
352	[694, 695]	2373	[4078, 4079]	4394	[2812, 892]	6415	[7677, 7511]
353	[696, 697]	2374	[4056, 1310]	4395	[6364, 5233]	6416	[7678, 6995]
354	[698, 171]	2375	[417, 4080]	4396	[3013, 2770]	6417	[6720, 7679]
355	[699, 700]	2376	[4081, 4082]	4397	[6365, 6366]	6418	[7180, 3914]
356	[701, 702]	2377	[4083, 4084]	4398	[6367, 6003]	6419	[939, 992]
357	[703, 704]	2378	[4085, 1603]	4399	[6368, 2653]	6420	[7680, 7681]
358	[705, 706]	2379	[4086, 4087]	4400	[6369, 1783]	6421	[4430, 3891]
359	[707, 708]	2380	[4088, 4089]	4401	[6370, 6371]	6422	[6794, 4804]
360	[687, 709]	2381	[4090, 4091]	4402	[6372, 2879]	6423	[983, 7682]
361	[710, 711]	2382	[4092, 3872]	4403	[6373, 5573]	6424	[7377, 6870]
362	[712, 713]	2383	[4093, 4094]	4404	[737, 2733]	6425	[7683, 3500]
363	[714, 715]	2384	[4095, 4096]	4405	[5013, 3037]	6426	[6954, 7187]
364	[716, 717]	2385	[4097, 4098]	4406	[6374, 2322]	6427	[7684, 7685]
365	[718, 719]	2386	[4099, 453]	4407	[6375, 1908]	6428	[7686, 4883]
366	[720, 721]	2387	[4100, 4101]	4408	[6197, 6376]	6429	[1315, 3829]
367	[722, 723]	2388	[3312, 4102]	4409	[6377, 6270]	6430	[7418, 3281]
368	[724, 725]	2389	[4103, 4104]	4410	[6378, 6379]	6431	[7687, 7441]
369	[726, 727]	2390	[3455, 4105]	4411	[2978, 6380]	6432	[4848, 7557]
370	[728, 729]	2391	[3773, 4106]	4412	[6381, 187]	6433	[7380, 4340]
371	[730, 731]	2392	[4107, 4108]	4413	[6382, 6383]	6434	[4564, 7688]
372	[732, 733]	2393	[367, 4109]	4414	[1942, 2608]	6435	[3928, 4657]
373	[734, 735]	2394	[4110, 4111]	4415	[6384, 6385]	6436	[4004, 1071]
374	[736, 737]	2395	[4112, 4113]	4416	[706, 5935]	6437	[1138, 7689]
375	[738, 739]	2396	[4114, 4115]	4417	[4995, 6328]	6438	[7690, 6706]
376	[740, 741]	2397	[4116, 4117]	4418	[2107, 6330]	6439	[3665, 6910]

377	[742, 743]	2398	[4118, 4119]	4419	[6386, 6387]	6440	[7652, 408]
378	[744, 745]	2399	[3659, 4120]	4420	[51, 6311]	6441	[3486, 7051]
379	[746, 747]	2400	[4121, 4122]	4421	[5657, 6322]	6442	[7653, 4401]
380	[748, 749]	2401	[454, 4123]	4422	[6073, 538]	6443	[4867, 4788]
381	[750, 751]	2402	[1458, 3506]	4423	[2870, 1902]	6444	[6901, 3668]
382	[752, 753]	2403	[3225, 4124]	4424	[6388, 5522]	6445	[4280, 7691]
383	[754, 755]	2404	[1367, 4125]	4425	[6389, 6242]	6446	[1378, 7692]
384	[756, 757]	2405	[4126, 4127]	4426	[5404, 4976]	6447	[3313, 3667]
385	[758, 759]	2406	[3543, 4128]	4427	[2369, 6390]	6448	[1294, 4885]
386	[142, 760]	2407	[4129, 4130]	4428	[6391, 2963]	6449	[7570, 7149]
387	[761, 762]	2408	[4025, 4131]	4429	[6392, 6393]	6450	[4162, 3145]
388	[599, 763]	2409	[4132, 4133]	4430	[6394, 3069]	6451	[4858, 4475]
389	[764, 765]	2410	[956, 4134]	4431	[5463, 6395]	6452	[3323, 7693]
390	[766, 767]	2411	[4135, 4136]	4432	[2349, 6396]	6453	[3344, 7318]
391	[768, 769]	2412	[1126, 4137]	4433	[6397, 6398]	6454	[1416, 7524]
392	[770, 771]	2413	[4138, 4139]	4434	[6399, 6400]	6455	[4852, 7277]
393	[772, 773]	2414	[1533, 4140]	4435	[5497, 6401]	6456	[7694, 7695]
394	[42, 774]	2415	[4141, 4142]	4436	[6402, 6403]	6457	[1089, 7696]
395	[775, 776]	2416	[4143, 3687]	4437	[5541, 5558]	6458	[7589, 1274]
396	[777, 778]	2417	[3315, 4144]	4438	[6404, 6405]	6459	[7679, 3670]
397	[779, 780]	2418	[4145, 4146]	4439	[6406, 6256]	6460	[7021, 7119]
398	[781, 782]	2419	[4147, 4148]	4440	[5934, 6407]	6461	[3955, 7432]
399	[783, 784]	2420	[4149, 1322]	4441	[3043, 5437]	6462	[7613, 7346]
400	[785, 786]	2421	[343, 4150]	4442	[3045, 6408]	6463	[7614, 7690]
401	[787, 788]	2422	[4151, 4152]	4443	[2476, 5111]	6464	[1694, 7332]
402	[789, 790]	2423	[4153, 4154]	4444	[5820, 6409]	6465	[4275, 388]
403	[791, 792]	2424	[4155, 4156]	4445	[1777, 4993]	6466	[7419, 3291]
404	[793, 794]	2425	[4157, 3825]	4446	[2441, 6410]	6467	[7095, 4932]
405	[795, 796]	2426	[1016, 4158]	4447	[6411, 5251]	6468	[4880, 7697]
406	[797, 798]	2427	[3898, 4081]	4448	[4987, 6412]	6469	[7141, 3286]
407	[799, 800]	2428	[4123, 4159]	4449	[2287, 6413]	6470	[3733, 3478]
408	[801, 802]	2429	[3987, 4160]	4450	[6284, 816]	6471	[974, 6863]
409	[803, 804]	2430	[4161, 3521]	4451	[1863, 6414]	6472	[7698, 6777]
410	[57, 805]	2431	[3407, 4162]	4452	[6415, 6416]	6473	[7033, 4790]
411	[806, 807]	2432	[4163, 4164]	4453	[2460, 2523]	6474	[7316, 1283]
412	[808, 809]	2433	[4165, 3887]	4454	[1818, 6264]	6475	[4593, 471]
413	[810, 811]	2434	[4166, 4167]	4455	[6417, 6418]	6476	[4514, 4560]
414	[222, 812]	2435	[4168, 4169]	4456	[6419, 511]	6477	[4248, 7266]
415	[813, 814]	2436	[4170, 4171]	4457	[5941, 6420]	6478	[3432, 7663]
416	[815, 534]	2437	[4172, 4173]	4458	[533, 2632]	6479	[4918, 3795]
417	[816, 817]	2438	[4174, 4175]	4459	[5663, 6389]	6480	[7699, 3797]
418	[32, 818]	2439	[4176, 4177]	4460	[837, 6421]	6481	[7349, 7700]
419	[34, 819]	2440	[95, 4178]	4461	[6422, 5554]	6482	[1101, 1658]
420	[820, 821]	2441	[4179, 4180]	4462	[2039, 746]	6483	[1683, 4068]

421	[822, 175]	2442	[1219, 1643]	4463	[625, 6320]	6484	[7666, 1559]
422	[823, 824]	2443	[4181, 1513]	4464	[6423, 5994]	6485	[6848, 7567]
423	[825, 826]	2444	[4182, 4183]	4465	[6156, 5807]	6486	[4636, 6915]
424	[827, 828]	2445	[4184, 4185]	4466	[759, 5809]	6487	[7548, 4349]
425	[829, 830]	2446	[3272, 4186]	4467	[723, 6223]	6488	[4680, 4247]
426	[831, 832]	2447	[3706, 3841]	4468	[2371, 5385]	6489	[1664, 7092]
427	[554, 833]	2448	[4187, 4188]	4469	[6424, 6425]	6490	[278, 7163]
428	[834, 835]	2449	[4189, 4190]	4470	[2092, 167]	6491	[399, 3960]
429	[836, 837]	2450	[4191, 4192]	4471	[6426, 6225]	6492	[4175, 299]
430	[838, 839]	2451	[4193, 4194]	4472	[6427, 6428]	6493	[1052, 3885]
431	[840, 841]	2452	[4195, 4196]	4473	[6359, 674]	6494	[7176, 7701]
432	[842, 843]	2453	[79, 4197]	4474	[6429, 6211]	6495	[3740, 7386]
433	[844, 845]	2454	[3747, 4198]	4475	[5507, 6332]	6496	[7474, 7702]
434	[846, 847]	2455	[4199, 3201]	4476	[5824, 6430]	6497	[1468, 7593]
435	[848, 849]	2456	[1147, 4200]	4477	[6383, 6431]	6498	[3557, 4859]
436	[850, 851]	2457	[4201, 4202]	4478	[6393, 6432]	6499	[7703, 428]
437	[852, 853]	2458	[276, 4203]	4479	[5760, 6433]	6500	[3211, 4333]
438	[854, 855]	2459	[4204, 4205]	4480	[6310, 6184]	6501	[4130, 7646]
439	[856, 857]	2460	[4206, 1075]	4481	[6434, 6297]	6502	[7026, 4698]
440	[858, 859]	2461	[3735, 4207]	4482	[6435, 5701]	6503	[1709, 7015]
441	[860, 861]	2462	[4208, 1090]	4483	[5691, 2697]	6504	[7360, 7506]
442	[862, 189]	2463	[4080, 3973]	4484	[5758, 6088]	6505	[4833, 1447]
443	[863, 864]	2464	[4209, 4210]	4485	[6436, 2670]	6506	[1155, 251]
444	[865, 866]	2465	[120, 4211]	4486	[6437, 6438]	6507	[4299, 3546]
445	[867, 868]	2466	[4212, 3402]	4487	[2894, 6354]	6508	[7704, 7319]
446	[869, 870]	2467	[3245, 4213]	4488	[580, 6115]	6509	[7087, 7476]
447	[871, 872]	2468	[1395, 3439]	4489	[5249, 557]	6510	[110, 4191]
448	[873, 785]	2469	[3539, 4214]	4490	[6439, 6440]	6511	[4422, 7705]
449	[874, 875]	2470	[3684, 4215]	4491	[6441, 2329]	6512	[3512, 4802]
450	[876, 877]	2471	[3558, 1716]	4492	[2756, 6442]	6513	[7436, 7190]
451	[878, 879]	2472	[4216, 4217]	4493	[5647, 810]	6514	[7566, 3674]
452	[880, 881]	2473	[3146, 4218]	4494	[5335, 8]	6515	[4377, 6781]
453	[882, 883]	2474	[4219, 4220]	4495	[2195, 1858]	6516	[1093, 4621]
454	[884, 885]	2475	[4221, 4222]	4496	[6443, 2350]	6517	[3803, 4722]
455	[886, 887]	2476	[4223, 3881]	4497	[5092, 6444]	6518	[7292, 7706]
456	[888, 889]	2477	[4224, 3591]	4498	[6445, 6446]	6519	[7707, 7708]
457	[890, 891]	2478	[4225, 3595]	4499	[839, 5944]	6520	[7287, 4034]
458	[892, 893]	2479	[4226, 3588]	4500	[2225, 6117]	6521	[7565, 7709]
459	[894, 895]	2480	[4227, 4228]	4501	[5516, 2486]	6522	[7108, 3320]
460	[896, 897]	2481	[4229, 4230]	4502	[2826, 2720]	6523	[339, 3130]
461	[898, 153]	2482	[1361, 3515]	4503	[6329, 6084]	6524	[3988, 3931]
462	[899, 900]	2483	[4231, 1069]	4504	[6447, 6448]	6525	[4395, 7710]
463	[901, 902]	2484	[4232, 4233]	4505	[6449, 768]	6526	[6799, 3129]
464	[903, 904]	2485	[4234, 4235]	4506	[6450, 151]	6527	[4295, 7599]

465	[905, 906]	2486	[1223, 4236]	4507	[6451, 6452]	6528	[3449, 1740]
466	[504, 907]	2487	[3482, 4237]	4508	[5586, 5357]	6529	[4554, 7245]
467	[908, 909]	2488	[4238, 1682]	4509	[1978, 6453]	6530	[4836, 3155]
468	[910, 911]	2489	[3265, 1509]	4510	[1828, 2071]	6531	[7697, 7630]
469	[912, 913]	2490	[3636, 4239]	4511	[6454, 5850]	6532	[7172, 7403]
470	[914, 838]	2491	[3848, 4161]	4512	[5945, 3083]	6533	[4652, 7711]
471	[915, 916]	2492	[3480, 4240]	4513	[2721, 6455]	6534	[7440, 7209]
472	[917, 918]	2493	[22, 3754]	4514	[6456, 6140]	6535	[6972, 1114]
473	[919, 920]	2494	[4241, 1650]	4515	[2691, 6325]	6536	[4750, 7420]
474	[921, 922]	2495	[4242, 4093]	4516	[5250, 6443]	6537	[938, 1680]
475	[923, 924]	2496	[4243, 4244]	4517	[6403, 6457]	6538	[4183, 7560]
476	[925, 926]	2497	[4245, 1379]	4518	[6138, 6458]	6539	[3353, 7140]
477	[927, 928]	2498	[3575, 4246]	4519	[6459, 6460]	6540	[7480, 4703]
478	[929, 930]	2499	[4247, 1479]	4520	[539, 6422]	6541	[4322, 4118]
479	[931, 932]	2500	[3392, 4248]	4521	[5675, 4968]	6542	[4439, 7615]
480	[933, 934]	2501	[4249, 4250]	4522	[6461, 2526]	6543	[1606, 4904]
481	[935, 936]	2502	[4251, 4252]	4523	[6462, 6463]	6544	[7563, 7712]
482	[937, 938]	2503	[4253, 4145]	4524	[6464, 1803]	6545	[266, 7527]
483	[97, 939]	2504	[4254, 4255]	4525	[6465, 6466]	6546	[7713, 7714]
484	[940, 941]	2505	[4256, 4257]	4526	[2729, 5350]	6547	[3672, 310]
485	[942, 943]	2506	[3911, 109]	4527	[6185, 6467]	6548	[7715, 3508]
486	[944, 945]	2507	[4258, 4259]	4528	[6468, 4957]	6549	[3374, 6719]
487	[946, 947]	2508	[1311, 3350]	4529	[6469, 2186]	6550	[7373, 7417]
488	[948, 303]	2509	[4260, 4261]	4530	[3081, 2461]	6551	[3229, 4671]
489	[949, 950]	2510	[4262, 996]	4531	[6470, 6471]	6552	[4239, 7168]
490	[951, 952]	2511	[4263, 3927]	4532	[6153, 2423]	6553	[7449, 7716]
491	[953, 954]	2512	[1407, 4264]	4533	[5527, 5520]	6554	[4445, 3157]
492	[955, 956]	2513	[1124, 4265]	4534	[6472, 5893]	6555	[7717, 7112]
493	[957, 958]	2514	[4266, 3561]	4535	[568, 6090]	6556	[6824, 4667]
494	[943, 959]	2515	[3932, 1634]	4536	[6046, 2061]	6557	[7116, 96]
495	[960, 961]	2516	[1267, 4267]	4537	[6473, 2969]	6558	[7718, 3544]
496	[962, 963]	2517	[4268, 4269]	4538	[2769, 636]	6559	[7628, 1030]
497	[411, 964]	2518	[4270, 4271]	4539	[4994, 5093]	6560	[4870, 4498]
498	[965, 966]	2519	[4272, 4273]	4540	[2377, 6474]	6561	[4043, 6825]
499	[967, 968]	2520	[4274, 4275]	4541	[5653, 5669]	6562	[1725, 7719]
500	[969, 970]	2521	[959, 4276]	4542	[5303, 2993]	6563	[6882, 7393]
501	[971, 972]	2522	[4277, 4278]	4543	[6475, 1796]	6564	[7493, 7442]
502	[973, 974]	2523	[4205, 3472]	4544	[2160, 177]	6565	[7712, 3652]
503	[975, 976]	2524	[4279, 4280]	4545	[2719, 6476]	6566	[4882, 4724]
504	[977, 978]	2525	[4281, 3406]	4546	[232, 6477]	6567	[1335, 1734]
505	[979, 980]	2526	[4282, 4283]	4547	[5962, 501]	6568	[3223, 7246]
506	[981, 982]	2527	[3675, 4284]	4548	[2777, 6315]	6569	[7675, 244]
507	[302, 983]	2528	[4285, 4286]	4549	[6478, 5457]	6570	[1010, 1728]
508	[984, 985]	2529	[4131, 3285]	4550	[1787, 646]	6571	[7495, 1440]

509	[986, 987]	2530	[4200, 4287]	4551	[6479, 6480]	6572	[4214, 3764]
510	[988, 989]	2531	[4288, 4289]	4552	[6481, 6238]	6573	[4063, 7720]
511	[990, 991]	2532	[4290, 4291]	4553	[5058, 229]	6574	[4702, 1485]
512	[992, 993]	2533	[4292, 4293]	4554	[1971, 910]	6575	[7670, 4149]
513	[994, 995]	2534	[4273, 1246]	4555	[5458, 2438]	6576	[7523, 1007]
514	[996, 997]	2535	[4294, 4295]	4556	[2414, 6482]	6577	[7298, 92]
515	[998, 999]	2536	[4296, 4297]	4557	[6258, 6483]	6578	[7028, 7468]
516	[1000, 1001]	2537	[4298, 4299]	4558	[5540, 2081]	6579	[1579, 4157]
517	[1002, 1003]	2538	[1699, 3997]	4559	[833, 6484]	6580	[7659, 4486]
518	[1004, 452]	2539	[4300, 4301]	4560	[6273, 513]	6581	[7695, 6930]
519	[1005, 1006]	2540	[4302, 4303]	4561	[1802, 6218]	6582	[7657, 6753]
520	[1007, 1008]	2541	[1050, 4304]	4562	[5207, 6367]	6583	[3621, 4290]
521	[1009, 1010]	2542	[4305, 3993]	4563	[2472, 6485]	6584	[1394, 7328]
522	[1011, 1012]	2543	[4306, 4307]	4564	[6486, 2104]	6585	[3547, 3635]
523	[1013, 1014]	2544	[4308, 4309]	4565	[2570, 6487]	6586	[7685, 7605]
524	[1015, 1016]	2545	[4310, 4311]	4566	[6488, 6280]	6587	[3794, 7660]
525	[1017, 1018]	2546	[4312, 4313]	4567	[2634, 3077]	6588	[7721, 3912]
526	[1019, 1020]	2547	[4314, 4315]	4568	[2410, 5313]	6589	[7410, 4408]
527	[447, 1021]	2548	[4316, 4317]	4569	[6334, 2474]	6590	[7722, 7454]
528	[1022, 1023]	2549	[4318, 1498]	4570	[6489, 6490]	6591	[1194, 7723]
529	[1024, 1025]	2550	[4319, 4320]	4571	[6491, 2292]	6592	[1538, 1605]
530	[1026, 1027]	2551	[4321, 4322]	4572	[6490, 6492]	6593	[7724, 6947]
531	[1028, 1029]	2552	[4255, 4323]	4573	[2146, 2206]	6594	[7725, 4798]
532	[1030, 1031]	2553	[4324, 4325]	4574	[663, 1897]	6595	[7485, 4643]
533	[1032, 1033]	2554	[4326, 4327]	4575	[6493, 5639]	6596	[4388, 4866]
534	[1034, 1035]	2555	[3769, 4328]	4576	[5485, 6494]	6597	[7726, 7727]
535	[1036, 1037]	2556	[4329, 1184]	4577	[6416, 1939]	6598	[7572, 3946]
536	[1038, 1039]	2557	[4330, 1186]	4578	[2911, 2409]	6599	[4478, 7728]
537	[1040, 1041]	2558	[3359, 4331]	4579	[6495, 6496]	6600	[385, 3979]
538	[1042, 1043]	2559	[4332, 4174]	4580	[5615, 666]	6601	[7729, 7730]
539	[1044, 1045]	2560	[4333, 4334]	4581	[765, 6497]	6602	[7464, 3207]
540	[1025, 1046]	2561	[1535, 263]	4582	[2934, 5496]	6603	[7502, 7558]
541	[1047, 1048]	2562	[4335, 4336]	4583	[1844, 573]	6604	[7681, 7677]
542	[1049, 1050]	2563	[4337, 1354]	4584	[6498, 6499]	6605	[6834, 4465]
543	[1051, 1052]	2564	[4338, 420]	4585	[2406, 5113]	6606	[3618, 1471]
544	[1053, 1054]	2565	[3801, 1199]	4586	[891, 5441]	6607	[7706, 6971]
545	[1055, 1056]	2566	[1441, 4339]	4587	[5811, 480]	6608	[7731, 4944]
546	[1057, 1058]	2567	[4340, 3870]	4588	[6500, 5638]	6609	[7575, 7232]
547	[1059, 1060]	2568	[4237, 3536]	4589	[2925, 5854]	6610	[7303, 4006]
548	[1061, 1062]	2569	[4341, 4342]	4590	[5402, 6062]	6611	[7732, 7536]
549	[1063, 1064]	2570	[1653, 4343]	4591	[6501, 3087]	6612	[1083, 7157]
550	[1065, 1066]	2571	[4344, 4345]	4592	[6502, 5369]	6613	[6950, 7612]
551	[1067, 1068]	2572	[3900, 1570]	4593	[6232, 6503]	6614	[7583, 7383]
552	[1069, 1070]	2573	[3345, 1108]	4594	[5032, 6504]	6615	[7733, 7308]

553	[1071, 1072]	2574	[3469, 4346]	4595	[2907, 6505]	6616	[7734, 7056]
554	[1073, 1074]	2575	[1484, 4347]	4596	[6506, 5853]	6617	[7271, 4525]
555	[1075, 1076]	2576	[4348, 1555]	4597	[6507, 2015]	6618	[4320, 7544]
556	[1077, 1078]	2577	[4349, 4350]	4598	[6120, 2204]	6619	[3820, 4663]
557	[474, 1079]	2578	[4351, 4352]	4599	[1857, 6508]	6620	[4916, 7717]
558	[1080, 1081]	2579	[1571, 4353]	4600	[893, 5832]	6621	[7735, 7725]
559	[1082, 1083]	2580	[4354, 4355]	4601	[5380, 6164]	6622	[3816, 7736]
560	[1084, 1085]	2581	[3871, 3311]	4602	[5625, 6509]	6623	[1427, 245]
561	[1086, 1087]	2582	[4356, 4357]	4603	[6510, 2676]	6624	[7737, 3689]
562	[1088, 1089]	2583	[4358, 1073]	4604	[6511, 5166]	6625	[4649, 4076]
563	[1090, 1091]	2584	[4359, 4360]	4605	[150, 5793]	6626	[7650, 1272]
564	[1092, 1093]	2585	[3428, 4361]	4606	[5132, 2056]	6627	[7738, 7305]
565	[1094, 1095]	2586	[3456, 4238]	4607	[2614, 6369]	6628	[427, 1738]
566	[1096, 1097]	2587	[3721, 4300]	4608	[5505, 6450]	6629	[7161, 4891]
567	[1098, 1099]	2588	[4362, 4363]	4609	[689, 5056]	6630	[69, 7715]
568	[1100, 1101]	2589	[4364, 4365]	4610	[849, 6512]	6631	[1565, 7618]
569	[1102, 1103]	2590	[4336, 4366]	4611	[5292, 6241]	6632	[1241, 7624]
570	[1104, 1105]	2591	[4367, 255]	4612	[6513, 6514]	6633	[7728, 7739]
571	[1106, 1107]	2592	[4368, 4369]	4613	[6515, 507]	6634	[4016, 4655]
572	[1108, 1109]	2593	[1282, 1588]	4614	[6516, 5993]	6635	[1486, 4326]
573	[1110, 1111]	2594	[4370, 3275]	4615	[482, 795]	6636	[7740, 4044]
574	[1112, 1113]	2595	[4371, 3277]	4616	[6517, 1972]	6637	[3781, 7550]
575	[1114, 1115]	2596	[4372, 80]	4617	[6518, 6519]	6638	[7741, 6760]
576	[1116, 249]	2597	[4373, 4374]	4618	[6520, 2342]	6639	[7057, 7067]
577	[1117, 1118]	2598	[30, 4375]	4619	[6521, 6522]	6640	[7137, 7096]
578	[1119, 1120]	2599	[4376, 4377]	4620	[6523, 6042]	6641	[7742, 1059]
579	[1121, 1122]	2600	[4378, 4379]	4621	[6109, 6524]	6642	[4289, 410]
580	[1123, 1124]	2601	[4380, 4381]	4622	[2896, 5052]	6643	[4497, 7078]
581	[1125, 1126]	2602	[4382, 4383]	4623	[2616, 6525]	6644	[7131, 7296]
582	[1127, 1128]	2603	[4384, 4385]	4624	[6353, 6526]	6645	[7723, 4463]
583	[458, 946]	2604	[4386, 3451]	4625	[907, 2067]	6646	[4264, 7577]
584	[1129, 1130]	2605	[4387, 4388]	4626	[5434, 6527]	6647	[4442, 4424]
585	[1131, 1132]	2606	[4286, 4389]	4627	[5167, 6528]	6648	[3221, 7514]
586	[1133, 1134]	2607	[4390, 4391]	4628	[2389, 2482]	6649	[6809, 7743]
587	[1135, 1136]	2608	[3424, 4370]	4629	[6124, 6491]	6650	[7031, 7466]
588	[1137, 1138]	2609	[4079, 3474]	4630	[184, 5881]	6651	[7744, 1549]
589	[1139, 1140]	2610	[3612, 4243]	4631	[6529, 2179]	6652	[3953, 6821]
590	[1141, 1142]	2611	[4392, 4393]	4632	[5796, 869]	6653	[4466, 3819]
591	[1143, 1144]	2612	[1508, 21]	4633	[6530, 5819]	6654	[6750, 3778]
592	[1060, 1145]	2613	[4394, 1129]	4634	[6531, 6473]	6655	[4682, 7745]
593	[1146, 1147]	2614	[252, 3170]	4635	[5877, 6532]	6656	[7587, 7746]
594	[1148, 1149]	2615	[1681, 4395]	4636	[5687, 6139]	6657	[3967, 1592]
595	[1150, 1151]	2616	[1670, 3804]	4637	[6533, 1968]	6658	[4257, 7632]
596	[1152, 1153]	2617	[4396, 4397]	4638	[1758, 5206]	6659	[4489, 7747]

597	[1154, 1155]	2618	[4398, 3442]	4639	[2939, 6534]	6660	[7261, 7748]
598	[1156, 1157]	2619	[4399, 1445]	4640	[180, 6535]	6661	[3939, 6709]
599	[1158, 1159]	2620	[1663, 4147]	4641	[6536, 6461]	6662	[284, 1146]
600	[1160, 1161]	2621	[4400, 944]	4642	[480, 5594]	6663	[7749, 7221]
601	[1162, 1163]	2622	[4069, 1238]	4643	[5299, 1880]	6664	[7716, 7733]
602	[1164, 1165]	2623	[4401, 4402]	4644	[5561, 6537]	6665	[7631, 7248]
603	[1166, 1167]	2624	[4403, 1557]	4645	[5536, 1882]	6666	[4342, 7505]
604	[1168, 1169]	2625	[1635, 3476]	4646	[6009, 6267]	6667	[7526, 4612]
605	[1170, 1171]	2626	[4404, 29]	4647	[6006, 6219]	6668	[6714, 7668]
606	[1172, 1173]	2627	[4405, 4406]	4648	[6538, 6075]	6669	[1727, 7170]
607	[1174, 1175]	2628	[3571, 4407]	4649	[226, 5053]	6670	[264, 7750]
608	[1176, 1177]	2629	[4408, 4409]	4650	[2834, 801]	6671	[7736, 1583]
609	[1178, 1179]	2630	[4410, 1403]	4651	[708, 2965]	6672	[7528, 7637]
610	[1180, 1181]	2631	[4411, 4412]	4652	[2641, 6539]	6673	[1325, 4844]
611	[1182, 1183]	2632	[3974, 4413]	4653	[6540, 6541]	6674	[7205, 7578]
612	[1184, 1185]	2633	[1033, 4414]	4654	[3093, 6520]	6675	[7411, 7098]
613	[1186, 448]	2634	[4415, 4416]	4655	[6542, 5104]	6676	[4406, 3174]
614	[1187, 1188]	2635	[4417, 4418]	4656	[6543, 6544]	6677	[3947, 4097]
615	[1189, 1190]	2636	[4419, 4420]	4657	[5931, 5632]	6678	[7222, 4500]
616	[1191, 1192]	2637	[4421, 4422]	4658	[2806, 2308]	6679	[7398, 350]
617	[1193, 1194]	2638	[1584, 4423]	4659	[5628, 4964]	6680	[1231, 19]
618	[1195, 1196]	2639	[4424, 4425]	4660	[6545, 5345]	6681	[6787, 7694]
619	[1197, 1198]	2640	[1323, 4426]	4661	[6546, 6547]	6682	[7062, 4212]
620	[1199, 1200]	2641	[3394, 4427]	4662	[6418, 6459]	6683	[4120, 7189]
621	[1201, 1202]	2642	[3577, 4428]	4663	[6548, 901]	6684	[7158, 4384]
622	[1203, 432]	2643	[4429, 4430]	4664	[6549, 6550]	6685	[4115, 1148]
623	[1204, 1205]	2644	[1472, 1131]	4665	[5373, 2893]	6686	[7438, 3806]
624	[1206, 1207]	2645	[3524, 4431]	4666	[2158, 6017]	6687	[6846, 4857]
625	[1208, 1209]	2646	[4432, 4433]	4667	[5611, 6551]	6688	[4898, 7430]
626	[1210, 1211]	2647	[1554, 4434]	4668	[2426, 5462]	6689	[7115, 7512]
627	[1212, 1213]	2648	[4435, 4436]	4669	[6552, 6553]	6690	[7032, 1123]
628	[1214, 1215]	2649	[997, 4437]	4670	[6554, 6555]	6691	[7407, 1639]
629	[1216, 1217]	2650	[4438, 4439]	4671	[5081, 6556]	6692	[3213, 7399]
630	[1218, 1219]	2651	[3347, 1022]	4672	[6557, 5981]	6693	[4029, 7643]
631	[1220, 1221]	2652	[4361, 4440]	4673	[6558, 6538]	6694	[7746, 6728]
632	[1222, 1223]	2653	[4441, 4442]	4674	[6559, 5000]	6695	[7220, 3821]
633	[1224, 1225]	2654	[4443, 4225]	4675	[1932, 6560]	6696	[7739, 4491]
634	[1226, 1227]	2655	[3837, 3995]	4676	[5119, 5725]	6697	[3965, 7742]
635	[1228, 1229]	2656	[4311, 1256]	4677	[6396, 6561]	6698	[6903, 7588]
636	[1230, 1231]	2657	[4444, 4445]	4678	[6562, 6563]	6699	[4082, 1526]
637	[1232, 1233]	2658	[4446, 4447]	4679	[5339, 6243]	6700	[7751, 4669]
638	[1234, 1235]	2659	[4261, 3288]	4680	[6564, 6565]	6701	[7752, 4961]
639	[1236, 1237]	2660	[4448, 4449]	4681	[5302, 2241]	6702	[1785, 7753]
640	[1238, 1239]	2661	[4450, 4451]	4682	[5564, 6502]	6703	[6622, 7754]

641	[1240, 1241]	2662	[1531, 4090]	4683	[6092, 6566]	6704	[7755, 7756]
642	[1242, 1243]	2663	[4452, 1182]	4684	[1766, 6567]	6705	[5885, 7757]
643	[1244, 1245]	2664	[4453, 1364]	4685	[6568, 6569]	6706	[7758, 6079]
644	[1246, 1247]	2665	[3179, 436]	4686	[2819, 569]	6707	[5426, 2768]
645	[1248, 1249]	2666	[4454, 1287]	4687	[6551, 6570]	6708	[5600, 4989]
646	[1250, 384]	2667	[4455, 4456]	4688	[5949, 6571]	6709	[7759, 2093]
647	[1251, 1252]	2668	[4357, 4335]	4689	[5581, 925]	6710	[5943, 7760]
648	[1253, 1254]	2669	[4457, 3266]	4690	[6572, 5781]	6711	[3068, 203]
649	[1255, 307]	2670	[1619, 4457]	4691	[2129, 2891]	6712	[6431, 650]
650	[1256, 1257]	2671	[3896, 3906]	4692	[5248, 6255]	6713	[7761, 6542]
651	[1258, 1259]	2672	[4458, 1594]	4693	[6408, 3039]	6714	[5855, 7762]
652	[1260, 1261]	2673	[4459, 4460]	4694	[5582, 1906]	6715	[562, 2282]
653	[1262, 1263]	2674	[4461, 4462]	4695	[531, 215]	6716	[5720, 7763]
654	[1264, 1265]	2675	[4463, 4464]	4696	[6573, 2651]	6717	[5722, 5946]
655	[1266, 1267]	2676	[4465, 4466]	4697	[6119, 542]	6718	[7764, 6099]
656	[1268, 1269]	2677	[4467, 4468]	4698	[2850, 5275]	6719	[2032, 1779]
657	[1270, 1271]	2678	[3692, 4459]	4699	[5689, 60]	6720	[5475, 5641]
658	[1272, 1273]	2679	[4469, 4470]	4700	[6145, 6574]	6721	[6191, 712]
659	[1274, 1275]	2680	[4471, 4472]	4701	[6444, 227]	6722	[543, 7765]
660	[1276, 1277]	2681	[4473, 4474]	4702	[5906, 2714]	6723	[7766, 5452]
661	[1278, 1279]	2682	[4475, 3168]	4703	[6575, 6576]	6724	[6487, 7767]
662	[423, 1280]	2683	[3834, 4476]	4704	[6535, 6301]	6725	[7768, 7769]
663	[1281, 1282]	2684	[4477, 257]	4705	[6577, 5049]	6726	[6607, 2429]
664	[1283, 1284]	2685	[4177, 4478]	4706	[5661, 1933]	6727	[7770, 2541]
665	[1285, 1286]	2686	[4106, 4479]	4707	[5910, 6495]	6728	[1887, 2538]
666	[1287, 1288]	2687	[4014, 4480]	4708	[6578, 5898]	6729	[3051, 5629]
667	[1289, 1290]	2688	[4481, 4482]	4709	[6045, 5900]	6730	[851, 5071]
668	[1291, 1292]	2689	[4066, 4356]	4710	[6579, 6533]	6731	[2397, 6200]
669	[1293, 1294]	2690	[4483, 4373]	4711	[6298, 1849]	6732	[6203, 2818]
670	[1295, 1296]	2691	[4484, 4485]	4712	[2573, 823]	6733	[7771, 7772]
671	[1297, 1298]	2692	[4486, 440]	4713	[767, 5814]	6734	[7773, 5995]
672	[1299, 1300]	2693	[4487, 1084]	4714	[6356, 6580]	6735	[2007, 2159]
673	[1301, 1302]	2694	[4360, 3691]	4715	[6581, 5199]	6736	[7774, 2801]
674	[1303, 1304]	2695	[4488, 4489]	4716	[6582, 4966]	6737	[2856, 3030]
675	[347, 1305]	2696	[3905, 4490]	4717	[6583, 6584]	6738	[7775, 5736]
676	[1306, 1307]	2697	[4491, 957]	4718	[5075, 6585]	6739	[7776, 7777]
677	[1308, 1309]	2698	[4492, 3437]	4719	[2321, 241]	6740	[2312, 7778]
678	[1310, 1311]	2699	[4493, 412]	4720	[6428, 6586]	6741	[5741, 7779]
679	[1312, 1313]	2700	[93, 4494]	4721	[6587, 6314]	6742	[7780, 5021]
680	[1314, 1315]	2701	[4495, 4496]	4722	[5568, 2263]	6743	[6057, 6454]
681	[1316, 1317]	2702	[3768, 4497]	4723	[2455, 2647]	6744	[6593, 744]
682	[1318, 1319]	2703	[4498, 4499]	4724	[1848, 6235]	6745	[5889, 5948]
683	[1320, 1321]	2704	[3447, 1332]	4725	[5772, 6194]	6746	[4969, 7781]
684	[1322, 1323]	2705	[4500, 4501]	4726	[859, 2695]	6747	[4992, 5666]

685	[1324, 1325]	2706	[4502, 4253]	4727	[5115, 2212]	6748	[2168, 2555]
686	[1326, 1327]	2707	[4503, 4504]	4728	[6281, 1999]	6749	[2171, 5810]
687	[1328, 1329]	2708	[4505, 4506]	4729	[2274, 2515]	6750	[6699, 1823]
688	[1330, 1331]	2709	[4507, 4508]	4730	[5862, 6529]	6751	[5938, 2949]
689	[1332, 1333]	2710	[3278, 4509]	4731	[2462, 6324]	6752	[7782, 7783]
690	[1334, 1335]	2711	[1452, 1281]	4732	[6588, 2013]	6753	[7784, 6632]
691	[1336, 1337]	2712	[4217, 3863]	4733	[6589, 6590]	6754	[2134, 5802]
692	[1338, 1339]	2713	[4510, 3259]	4734	[655, 5198]	6755	[3005, 2011]
693	[1340, 1094]	2714	[4511, 3593]	4735	[6591, 5018]	6756	[6695, 7785]
694	[1341, 1342]	2715	[323, 942]	4736	[6592, 2272]	6757	[7786, 2221]
695	[1343, 1344]	2716	[1290, 4512]	4737	[5608, 6196]	6758	[578, 6121]
696	[1345, 1346]	2717	[4513, 4187]	4738	[6350, 6593]	6759	[679, 2337]
697	[1347, 1127]	2718	[4276, 4514]	4739	[6594, 5453]	6760	[6400, 3103]
698	[1348, 1349]	2719	[4515, 1528]	4740	[2099, 6595]	6761	[7787, 6594]
699	[1350, 1351]	2720	[4494, 4516]	4741	[2779, 6596]	6762	[755, 7788]
700	[1352, 1353]	2721	[4517, 1438]	4742	[6597, 5530]	6763	[7789, 3080]
701	[1354, 1355]	2722	[4518, 1044]	4743	[5090, 6598]	6764	[7790, 1919]
702	[1356, 1357]	2723	[4519, 4223]	4744	[6599, 5583]	6765	[5038, 7791]
703	[1358, 1359]	2724	[258, 1291]	4745	[897, 6134]	6766	[2281, 6667]
704	[1360, 1361]	2725	[476, 4520]	4746	[6580, 1987]	6767	[6628, 7792]
705	[1362, 1363]	2726	[1466, 4126]	4747	[6600, 6498]	6768	[5294, 825]
706	[1364, 1365]	2727	[1720, 4521]	4748	[6390, 6601]	6769	[6410, 7793]
707	[1366, 1367]	2728	[4522, 1098]	4749	[6602, 5565]	6770	[5152, 5766]
708	[1368, 1369]	2729	[4523, 4524]	4750	[1809, 6603]	6771	[7794, 5476]
709	[1327, 1370]	2730	[3869, 1654]	4751	[2932, 2662]	6772	[5266, 4948]
710	[1371, 1372]	2731	[4525, 4526]	4752	[5671, 6604]	6773	[5566, 2110]
711	[1373, 1374]	2732	[4101, 4527]	4753	[6605, 5394]	6774	[7795, 3004]
712	[1375, 1376]	2733	[1418, 4274]	4754	[5430, 6022]	6775	[6282, 7796]
713	[1377, 1378]	2734	[1175, 3128]	4755	[6312, 6606]	6776	[7797, 5681]
714	[1379, 1380]	2735	[4528, 4529]	4756	[6519, 6607]	6777	[6672, 6198]
715	[1381, 1382]	2736	[4530, 4531]	4757	[6608, 6609]	6778	[5749, 5419]
716	[1383, 1384]	2737	[292, 3196]	4758	[6598, 6610]	6779	[5279, 2026]
717	[445, 1385]	2738	[4050, 3799]	4759	[6611, 6114]	6780	[6455, 6047]
718	[1386, 1387]	2739	[4532, 1306]	4760	[6612, 6613]	6781	[7798, 5409]
719	[1388, 1389]	2740	[4490, 1049]	4761	[5869, 2234]	6782	[857, 7799]
720	[1390, 1082]	2741	[4533, 4534]	4762	[506, 5723]	6783	[6563, 7800]
721	[1391, 1392]	2742	[4535, 4536]	4763	[2296, 6581]	6784	[38, 7801]
722	[1393, 1394]	2743	[4537, 4241]	4764	[6614, 6615]	6785	[6165, 1799]
723	[1029, 1395]	2744	[4538, 322]	4765	[597, 634]	6786	[2080, 7802]
724	[1396, 1397]	2745	[1735, 324]	4766	[1855, 2140]	6787	[1811, 7803]
725	[1398, 1399]	2746	[4539, 4540]	4767	[6420, 6364]	6788	[2675, 638]
726	[1400, 1401]	2747	[4541, 3695]	4768	[6616, 6160]	6789	[7804, 7805]
727	[1402, 994]	2748	[1424, 4542]	4769	[5261, 5306]	6790	[7806, 7807]
728	[1403, 1404]	2749	[1649, 4543]	4770	[5156, 6617]	6791	[7808, 5425]

729	[1043, 1405]	2750	[4544, 88]	4771	[2987, 6352]	6792	[5577, 5841]
730	[1406, 1407]	2751	[4545, 933]	4772	[5702, 2404]	6793	[522, 2202]
731	[1408, 1409]	2752	[4546, 4547]	4773	[2084, 927]	6794	[7801, 7790]
732	[1410, 1411]	2753	[1741, 4548]	4774	[2066, 2340]	6795	[6485, 7809]
733	[1412, 1413]	2754	[4549, 3600]	4775	[5242, 6618]	6796	[5665, 7810]
734	[1414, 1415]	2755	[4550, 4551]	4776	[2248, 2288]	6797	[3016, 208]
735	[363, 1416]	2756	[4552, 1088]	4777	[5101, 6619]	6798	[6199, 7811]
736	[1417, 1418]	2757	[4553, 4554]	4778	[3070, 5271]	6799	[2732, 3092]
737	[1419, 1420]	2758	[4555, 4556]	4779	[6603, 6071]	6800	[2244, 2610]
738	[401, 1421]	2759	[4557, 4558]	4780	[3096, 6204]	6801	[5914, 7812]
739	[1422, 1423]	2760	[4104, 4559]	4781	[3098, 6620]	6802	[2554, 5921]
740	[1392, 1424]	2761	[4560, 4561]	4782	[5826, 6621]	6803	[5257, 7813]
741	[1425, 267]	2762	[472, 4562]	4783	[502, 2767]	6804	[6648, 5983]
742	[1426, 1427]	2763	[4563, 4564]	4784	[2343, 6622]	6805	[2164, 5407]
743	[1428, 1429]	2764	[4565, 4566]	4785	[6102, 58]	6806	[2069, 1801]
744	[1430, 1431]	2765	[3303, 4567]	4786	[6432, 2232]	6807	[7814, 2668]
745	[1432, 1433]	2766	[3426, 1391]	4787	[6623, 6624]	6808	[7815, 7816]
746	[1434, 1435]	2767	[4568, 4488]	4788	[6625, 2210]	6809	[7817, 7818]
747	[1436, 1437]	2768	[4569, 4570]	4789	[2638, 6288]	6810	[1813, 6500]
748	[1438, 1439]	2769	[4571, 1232]	4790	[6626, 6210]	6811	[6076, 2974]
749	[1440, 1441]	2770	[4572, 1475]	4791	[6627, 6126]	6812	[6694, 4973]
750	[270, 1442]	2771	[3590, 4573]	4792	[6100, 6628]	6813	[7819, 6682]
751	[1443, 1444]	2772	[4574, 4575]	4793	[5386, 6629]	6814	[2840, 6423]
752	[1445, 1446]	2773	[4576, 4577]	4794	[5020, 6010]	6815	[6333, 6202]
753	[1447, 1448]	2774	[4578, 4579]	4795	[6630, 6631]	6816	[5057, 6337]
754	[1449, 1450]	2775	[4580, 3929]	4796	[6632, 6227]	6817	[3053, 1944]
755	[1451, 1452]	2776	[3714, 4581]	4797	[6527, 6633]	6818	[7820, 7821]
756	[1453, 1454]	2777	[369, 4582]	4798	[6634, 6578]	6819	[7822, 2219]
757	[1455, 1456]	2778	[4583, 3382]	4799	[2994, 624]	6820	[6606, 4972]
758	[1457, 1458]	2779	[1284, 4584]	4800	[2588, 6635]	6821	[5956, 5887]
759	[1192, 1459]	2780	[4437, 4585]	4801	[6569, 2694]	6822	[7757, 5009]
760	[1460, 1461]	2781	[4586, 3503]	4802	[5288, 5765]	6823	[7823, 6044]
761	[1462, 1463]	2782	[26, 4587]	4803	[6636, 6510]	6824	[5610, 6020]
762	[1464, 438]	2783	[4588, 4589]	4804	[6570, 1936]	6825	[6048, 2507]
763	[1465, 1466]	2784	[1099, 4590]	4805	[5399, 6552]	6826	[213, 2004]
764	[1467, 1468]	2785	[1523, 4591]	4806	[6055, 6077]	6827	[2096, 7824]
765	[1469, 1470]	2786	[4592, 4593]	4807	[6637, 6638]	6828	[570, 6259]
766	[1471, 1472]	2787	[1159, 1121]	4808	[5733, 6639]	6829	[6617, 5444]
767	[1473, 1474]	2788	[1463, 3833]	4809	[6085, 526]	6830	[6537, 155]
768	[1475, 1476]	2789	[4594, 4595]	4810	[6395, 3032]	6831	[7767, 137]
769	[1477, 1478]	2790	[4596, 4597]	4811	[2931, 2100]	6832	[2758, 5774]
770	[1479, 1480]	2791	[4598, 4576]	4812	[5737, 2249]	6833	[2240, 5480]
771	[1481, 1482]	2792	[4599, 3316]	4813	[6640, 5622]	6834	[1992, 5987]
772	[1483, 1484]	2793	[3274, 4600]	4814	[6641, 4967]	6835	[6291, 5022]

773	[1485, 1486]	2794	[1397, 4601]	4815	[5236, 2477]	6836	[5791, 2223]
774	[83, 1487]	2795	[4602, 4603]	4816	[6642, 5991]	6837	[6271, 2716]
775	[1488, 1489]	2796	[4604, 4605]	4817	[5932, 862]	6838	[6141, 2479]
776	[1490, 1491]	2797	[4606, 1366]	4818	[3112, 521]	6839	[5363, 6439]
777	[1492, 1493]	2798	[4222, 3823]	4819	[5918, 2981]	6840	[6669, 6668]
778	[1494, 1495]	2799	[4607, 4608]	4820	[6643, 2020]	6841	[6379, 7825]
779	[1496, 1497]	2800	[4543, 3531]	4821	[6644, 6645]	6842	[6043, 5972]
780	[1498, 1499]	2801	[3809, 4609]	4822	[6646, 6611]	6843	[733, 6128]
781	[1500, 1501]	2802	[3270, 4610]	4823	[5015, 5446]	6844	[7812, 7826]
782	[1502, 1503]	2803	[4611, 3147]	4824	[5162, 6647]	6845	[7827, 908]
783	[1504, 1505]	2804	[4612, 4613]	4825	[2395, 2077]	6846	[6080, 2705]
784	[1181, 1506]	2805	[3321, 1162]	4826	[5011, 6648]	6847	[545, 6361]
785	[1507, 1508]	2806	[4614, 3984]	4827	[6170, 6649]	6848	[2798, 5215]
786	[1509, 293]	2807	[4615, 3680]	4828	[623, 219]	6849	[6560, 32]
787	[393, 1510]	2808	[4616, 4617]	4829	[2222, 5705]	6850	[7828, 7829]
788	[1511, 1512]	2809	[4618, 1260]	4830	[2650, 223]	6851	[2618, 483]
789	[1513, 291]	2810	[4383, 1262]	4831	[5376, 6543]	6852	[7830, 6122]
790	[1514, 1515]	2811	[995, 1689]	4832	[6650, 6386]	6853	[5747, 7831]
791	[1516, 1517]	2812	[3328, 1180]	4833	[2877, 5797]	6854	[7832, 7833]
792	[1518, 1519]	2813	[4619, 4620]	4834	[5378, 6253]	6855	[6412, 7834]
793	[1520, 5]	2814	[3811, 4319]	4835	[6651, 33]	6856	[5846, 815]
794	[1521, 1522]	2815	[4621, 4143]	4836	[2800, 6089]	6857	[5646, 7835]
795	[294, 1523]	2816	[3167, 4622]	4837	[2408, 6501]	6858	[5953, 6323]
796	[1157, 1524]	2817	[3572, 4623]	4838	[2412, 5523]	6859	[6566, 7836]
797	[1525, 1299]	2818	[3333, 4624]	4839	[5531, 5161]	6860	[3057, 7837]
798	[1526, 1527]	2819	[4625, 1104]	4840	[6525, 2189]	6861	[7838, 7839]
799	[1528, 1529]	2820	[4626, 4627]	4841	[5734, 6652]	6862	[5986, 5253]
800	[1530, 1531]	2821	[4325, 424]	4842	[6653, 6654]	6863	[550, 6176]
801	[1532, 1533]	2822	[1622, 4588]	4843	[6655, 6384]	6864	[7836, 185]
802	[1534, 1535]	2823	[4628, 4629]	4844	[2453, 5044]	6865	[2687, 6658]
803	[1536, 301]	2824	[1048, 3314]	4845	[158, 6424]	6866	[7840, 6411]
804	[1537, 1538]	2825	[3417, 4630]	4846	[5618, 5692]	6867	[6666, 7841]
805	[1539, 1540]	2826	[4631, 4632]	4847	[5190, 1825]	6868	[7842, 5308]
806	[1541, 1542]	2827	[4633, 3534]	4848	[6656, 4952]	6869	[7835, 5470]
807	[1543, 1544]	2828	[1372, 4634]	4849	[922, 5037]	6870	[5188, 6605]
808	[1545, 1546]	2829	[4635, 4636]	4850	[5445, 6657]	6871	[7843, 5912]
809	[1547, 1548]	2830	[3704, 3701]	4851	[1976, 5684]	6872	[7844, 5868]
810	[1549, 1550]	2831	[4235, 4637]	4852	[162, 2388]	6873	[126, 5539]
811	[1551, 1552]	2832	[4331, 4138]	4853	[6658, 6659]	6874	[5483, 5979]
812	[1553, 1554]	2833	[4531, 4410]	4854	[6660, 6661]	6875	[3120, 2783]
813	[1555, 1556]	2834	[4638, 4639]	4855	[1997, 5414]	6876	[3122, 7845]
814	[1557, 1558]	2835	[1729, 4640]	4856	[6662, 5871]	6877	[7846, 7847]
815	[1559, 1560]	2836	[4641, 3222]	4857	[6166, 6663]	6878	[5864, 7848]
816	[1561, 1562]	2837	[244, 4642]	4858	[6565, 3056]	6879	[3036, 2297]

817	[1563, 998]	2838	[260, 1077]	4859	[6664, 6614]	6880	[6534, 5210]
818	[63, 1564]	2839	[4643, 3964]	4860	[5511, 5904]	6881	[5436, 5301]
819	[67, 1565]	2840	[4644, 4645]	4861	[6665, 2833]	6882	[582, 7849]
820	[1566, 1567]	2841	[4009, 4646]	4862	[6430, 6666]	6883	[7850, 6429]
821	[1568, 1569]	2842	[4647, 3639]	4863	[5077, 6283]	6884	[1982, 5246]
822	[1478, 348]	2843	[4648, 4649]	4864	[6667, 2803]	6885	[5356, 6249]
823	[1570, 1571]	2844	[4650, 4651]	4865	[6371, 2708]	6886	[6453, 5996]
824	[1572, 1573]	2845	[1134, 4652]	4866	[6615, 6052]	6887	[6226, 5347]
825	[1574, 1575]	2846	[4653, 3216]	4867	[6668, 6664]	6888	[6567, 7851]
826	[1576, 1577]	2847	[4654, 4380]	4868	[5125, 6056]	6889	[2606, 1915]
827	[1578, 1579]	2848	[4651, 3578]	4869	[5298, 2659]	6890	[2332, 6583]
828	[1580, 400]	2849	[4655, 3628]	4870	[6279, 6669]	6891	[7831, 7814]
829	[1581, 1582]	2850	[4656, 1222]	4871	[6247, 2989]	6892	[5621, 2884]
830	[1583, 1584]	2851	[3843, 3295]	4872	[6670, 6245]	6893	[6693, 7830]
831	[1585, 1586]	2852	[4657, 4658]	4873	[6113, 1794]	6894	[5552, 5837]
832	[1587, 1585]	2853	[4659, 4660]	4874	[6188, 2843]	6895	[7852, 5128]
833	[1588, 1589]	2854	[4516, 3348]	4875	[5792, 6368]	6896	[7853, 7854]
834	[1590, 1591]	2855	[1667, 4661]	4876	[6624, 124]	6897	[7855, 7856]
835	[1592, 1593]	2856	[4456, 4662]	4877	[807, 3019]	6898	[5390, 2644]
836	[1594, 1434]	2857	[4663, 3423]	4878	[6671, 6558]	6899	[617, 7857]
837	[1595, 1596]	2858	[4664, 3989]	4879	[6613, 6672]	6900	[5309, 876]
838	[1597, 1598]	2859	[4658, 3766]	4880	[3067, 6673]	6901	[7858, 2959]
839	[1599, 1600]	2860	[1577, 1158]	4881	[6674, 720]	6902	[7859, 7822]
840	[1601, 1602]	2861	[4665, 4666]	4882	[6675, 2930]	6903	[2875, 7860]
841	[1603, 1604]	2862	[4667, 402]	4883	[2677, 6653]	6904	[2434, 5340]
842	[1605, 1606]	2863	[4668, 4057]	4884	[5238, 3012]	6905	[6309, 6261]
843	[1607, 1608]	2864	[4669, 4670]	4885	[5668, 4959]	6906	[7861, 5773]
844	[1609, 1026]	2865	[4671, 3999]	4886	[5709, 515]	6907	[7862, 1870]
845	[1610, 1611]	2866	[4672, 3420]	4887	[6457, 2882]	6908	[7863, 7864]
846	[1612, 318]	2867	[4673, 1580]	4888	[2285, 5482]	6909	[7865, 5175]
847	[1613, 1614]	2868	[4674, 4675]	4889	[1838, 5651]	6910	[6049, 181]
848	[1346, 1615]	2869	[1524, 3360]	4890	[5821, 2503]	6911	[6039, 5761]
849	[1616, 1617]	2870	[4309, 3362]	4891	[5886, 193]	6912	[6357, 2150]
850	[1618, 1619]	2871	[4676, 3641]	4892	[6676, 5642]	6913	[5034, 6067]
851	[1620, 1621]	2872	[4677, 4678]	4893	[2529, 5770]	6914	[2356, 6169]
852	[353, 1622]	2873	[4679, 4680]	4894	[6677, 5109]	6915	[6532, 7866]
853	[1623, 1624]	2874	[4590, 4681]	4895	[6678, 5241]	6916	[7856, 7867]
854	[1625, 1626]	2875	[3627, 4682]	4896	[5391, 5135]	6917	[2512, 7868]
855	[1627, 1628]	2876	[4504, 4450]	4897	[6679, 6137]	6918	[7869, 553]
856	[1629, 115]	2877	[4683, 4684]	4898	[6474, 6680]	6919	[741, 7870]
857	[1630, 1631]	2878	[4685, 4686]	4899	[5211, 6681]	6920	[6303, 5091]
858	[1632, 1266]	2879	[4687, 4452]	4900	[6682, 6167]	6921	[924, 7795]
859	[1633, 1358]	2880	[4688, 4689]	4901	[2861, 6597]	6922	[541, 2311]
860	[1634, 1635]	2881	[4690, 4251]	4902	[5086, 6683]	6923	[6342, 6294]

861	[443, 1636]	2882	[3614, 1724]	4903	[2253, 614]	6924	[5050, 797]
862	[1637, 1638]	2883	[4691, 1597]	4904	[6684, 5839]	6925	[6480, 2184]
863	[1639, 1640]	2884	[4692, 4019]	4905	[496, 6150]	6926	[4953, 1833]
864	[1641, 1642]	2885	[4460, 4693]	4906	[613, 5878]	6927	[7871, 1835]
865	[1643, 368]	2886	[4694, 1402]	4907	[2451, 5429]	6928	[558, 5735]
866	[1644, 1645]	2887	[3646, 4695]	4908	[5351, 6523]	6929	[5667, 6406]
867	[1646, 1647]	2888	[4696, 63]	4909	[5645, 6627]	6930	[5822, 672]
868	[1648, 1649]	2889	[4697, 3748]	4910	[5290, 6685]	6931	[2737, 5106]
869	[1650, 1651]	2890	[4698, 3373]	4911	[6103, 6447]	6932	[6407, 6155]
870	[1652, 1653]	2891	[4548, 3580]	4912	[6686, 5830]	6933	[6638, 6237]
871	[1654, 1655]	2892	[3713, 4699]	4913	[835, 6687]	6934	[2753, 7872]
872	[1656, 1657]	2893	[4700, 1525]	4914	[6105, 6608]	6935	[6351, 7775]
873	[1658, 1659]	2894	[4701, 4702]	4915	[6688, 2774]	6936	[5221, 6612]
874	[1660, 287]	2895	[4703, 3136]	4916	[5410, 6689]	6937	[6091, 3050]
875	[1661, 1154]	2896	[1142, 4704]	4917	[5406, 2592]	6938	[7873, 6233]
876	[1662, 1663]	2897	[4096, 4705]	4918	[5408, 5787]	6939	[6035, 7874]
877	[1614, 1664]	2898	[3969, 3488]	4919	[6072, 1759]	6940	[5593, 5708]
878	[321, 1665]	2899	[1387, 3671]	4920	[2316, 2161]	6941	[7805, 6536]
879	[1666, 1667]	2900	[4706, 4707]	4921	[5467, 5551]	6942	[796, 6147]
880	[1668, 342]	2901	[1091, 473]	4922	[6690, 6691]	6943	[6687, 5782]
881	[1669, 1670]	2902	[4708, 4709]	4923	[800, 6692]	6944	[7875, 7876]
882	[1671, 1672]	2903	[4710, 3631]	4924	[6058, 6693]	6945	[7802, 5526]
883	[1673, 1674]	2904	[4711, 3212]	4925	[841, 5584]	6946	[514, 6180]
884	[1675, 1676]	2905	[4601, 4712]	4926	[6358, 6548]	6947	[7877, 7842]
885	[1677, 1678]	2906	[1624, 4713]	4927	[5228, 2956]	6948	[5456, 6101]
886	[429, 1679]	2907	[4714, 4715]	4928	[2784, 6694]	6949	[3062, 7878]
887	[1680, 1681]	2908	[4402, 4716]	4929	[6574, 772]	6950	[5597, 7879]
888	[1682, 1683]	2909	[4350, 4717]	4930	[4983, 777]	6951	[6023, 2940]
889	[1684, 1685]	2910	[3937, 4718]	4931	[5164, 1845]	6952	[6484, 7880]
890	[1686, 1687]	2911	[103, 4719]	4932	[2527, 6695]	6953	[2546, 7881]
891	[1480, 1688]	2912	[4720, 4721]	4933	[6696, 6697]	6954	[7882, 7883]
892	[1689, 1690]	2913	[1339, 1096]	4934	[2920, 2454]	6955	[7810, 5609]
893	[1691, 1692]	2914	[4722, 1216]	4935	[6585, 5012]	6956	[5312, 2682]
894	[1693, 1694]	2915	[3351, 4723]	4936	[704, 1814]	6957	[6398, 548]
895	[1695, 1696]	2916	[4724, 4725]	4937	[2470, 6572]	6958	[7884, 7885]
896	[1621, 1697]	2917	[3511, 4726]	4938	[5636, 3025]	6959	[7886, 7887]
897	[1698, 1699]	2918	[1292, 4321]	4939	[2964, 2370]	6960	[5635, 7888]
898	[1700, 1701]	2919	[1118, 4469]	4940	[6698, 6679]	6961	[2162, 3104]
899	[1589, 1702]	2920	[4727, 4606]	4941	[5317, 6699]	6962	[2088, 5732]
900	[1703, 1704]	2921	[4728, 3782]	4942	[6700, 2863]	6963	[6345, 5759]
901	[1705, 1453]	2922	[4729, 4653]	4943	[6033, 5191]	6964	[5384, 2690]
902	[1706, 1707]	2923	[4730, 3309]	4944	[5838, 5065]	6965	[7807, 7889]
903	[1708, 1709]	2924	[4327, 4731]	4945	[2542, 6034]	6966	[2336, 5311]
904	[1710, 1711]	2925	[1342, 4054]	4946	[6087, 3027]	6967	[7769, 7890]

905	[1712, 1047]	2926	[4732, 4733]	4947	[6701, 4387]	6968	[5800, 5157]
906	[1713, 1714]	2927	[4734, 3330]	4948	[456, 3517]	6969	[7788, 7846]
907	[87, 1715]	2928	[3895, 366]	4949	[6702, 3332]	6970	[6471, 2411]
908	[1716, 1717]	2929	[4735, 4736]	4950	[6703, 6704]	6971	[7891, 6481]
909	[1586, 1718]	2930	[4737, 4738]	4951	[6705, 4515]	6972	[7892, 2085]
910	[1719, 1720]	2931	[4739, 4285]	4952	[6706, 3425]	6973	[7893, 1981]
911	[1631, 1721]	2932	[4740, 3693]	4953	[6707, 3246]	6974	[2330, 5567]
912	[1722, 1723]	2933	[4741, 4742]	4954	[349, 360]	6975	[5744, 5999]
913	[1724, 1725]	2934	[4743, 4744]	4955	[6708, 4088]	6976	[5358, 52]
914	[1726, 1727]	2935	[4745, 3563]	4956	[3982, 4292]	6977	[5449, 7894]
915	[1728, 1729]	2936	[4746, 3861]	4957	[6709, 6710]	6978	[5114, 5916]
916	[1730, 1731]	2937	[3862, 4747]	4958	[6711, 6712]	6979	[5724, 7861]
917	[1732, 1733]	2938	[4748, 362]	4959	[1600, 3685]	6980	[7895, 5499]
918	[1734, 1735]	2939	[4749, 4750]	4960	[6713, 6714]	6981	[6401, 7896]
919	[1736, 1737]	2940	[91, 3496]	4961	[286, 6715]	6982	[2540, 5026]
920	[1738, 1739]	2941	[4751, 4752]	4962	[6716, 6717]	6983	[1965, 2738]
921	[1740, 1741]	2942	[4753, 4754]	4963	[4259, 4103]	6984	[2663, 2983]
922	[1742, 1348]	2943	[1319, 4755]	4964	[6718, 3404]	6985	[6697, 2560]
923	[1743, 1744]	2944	[4756, 4757]	4965	[3647, 4541]	6986	[2844, 6625]
924	[1745, 1746]	2945	[4758, 4759]	4966	[6719, 6720]	6987	[6019, 7843]
925	[1747, 1748]	2946	[4760, 4761]	4967	[6721, 4748]	6988	[5922, 6231]
926	[1749, 1400]	2947	[4762, 3857]	4968	[4781, 6722]	6989	[780, 2506]
927	[1750, 1751]	2948	[4763, 4714]	4969	[3568, 6723]	6990	[6070, 7897]
928	[1752, 1753]	2949	[4764, 3901]	4970	[6724, 6725]	6991	[6681, 7898]
929	[1754, 1755]	2950	[4765, 4766]	4971	[3682, 6711]	6992	[6635, 6081]
930	[1756, 455]	2951	[4269, 4767]	4972	[6726, 3283]	6993	[5580, 7899]
931	[1757, 1758]	2952	[4414, 4768]	4973	[3951, 6727]	6994	[2961, 5730]
932	[1759, 1760]	2953	[3364, 4769]	4974	[6728, 1375]	6995	[7900, 2567]
933	[1761, 1762]	2954	[4770, 4771]	4975	[6729, 3656]	6996	[5305, 7853]
934	[1763, 1764]	2955	[4428, 4772]	4976	[4240, 6730]	6997	[7901, 2247]
935	[1765, 1766]	2956	[4426, 4773]	4977	[3696, 6731]	6998	[6240, 6278]
936	[804, 1767]	2957	[4774, 4614]	4978	[4666, 4015]	6999	[2192, 4980]
937	[1768, 1769]	2958	[4775, 4776]	4979	[4799, 316]	7000	[6002, 6549]
938	[1770, 1771]	2959	[4777, 3307]	4980	[4190, 6732]	7001	[4988, 6478]
939	[1772, 1773]	2960	[3519, 4751]	4981	[6733, 3899]	7002	[7902, 6207]
940	[1774, 1775]	2961	[4767, 4778]	4982	[6734, 6735]	7003	[7903, 5504]
941	[1776, 1777]	2962	[1748, 3431]	4983	[6736, 4685]	7004	[7879, 6660]
942	[635, 1778]	2963	[4779, 4072]	4984	[6737, 1686]	7005	[6385, 2228]
943	[1779, 1780]	2964	[4780, 4781]	4985	[4021, 3171]	7006	[6421, 7904]
944	[1781, 1782]	2965	[4782, 4783]	4986	[6738, 6739]	7007	[2025, 5508]
945	[1783, 903]	2966	[4784, 4785]	4987	[3526, 4921]	7008	[6289, 5902]
946	[1784, 1785]	2967	[1279, 4740]	4988	[4609, 1063]	7009	[5082, 2582]
947	[1786, 1787]	2968	[4786, 4787]	4989	[1558, 6740]	7010	[6327, 6637]
948	[1788, 1789]	2969	[4788, 4789]	4990	[6741, 6742]	7011	[5788, 2865]

949	[1790, 1791]	2970	[4790, 121]	4991	[6743, 6744]	7012	[5110, 491]
950	[1792, 1793]	2971	[405, 4791]	4992	[6745, 6746]	7013	[6499, 3048]
951	[1794, 1795]	2972	[4792, 4793]	4993	[3158, 6747]	7014	[3038, 7905]
952	[1796, 696]	2973	[4794, 1673]	4994	[3160, 4417]	7015	[3089, 2480]
953	[1797, 1798]	2974	[4752, 3653]	4995	[1161, 6748]	7016	[6349, 7906]
954	[1799, 1800]	2975	[4795, 3527]	4996	[6749, 6750]	7017	[7907, 7908]
955	[1801, 1802]	2976	[4796, 4232]	4997	[4707, 4578]	7018	[7909, 2857]
956	[204, 1768]	2977	[4797, 3622]	4998	[3936, 6751]	7019	[7811, 2630]
957	[1803, 896]	2978	[4798, 4799]	4999	[3888, 6745]	7020	[6209, 2386]
958	[1804, 1805]	2979	[4800, 4801]	5000	[6752, 4024]	7021	[2593, 7910]
959	[1806, 1807]	2980	[4802, 967]	5001	[6753, 3139]	7022	[5777, 5490]
960	[1808, 1809]	2981	[1027, 4690]	5002	[6754, 3812]	7023	[2838, 2599]
961	[1810, 1811]	2982	[4803, 4022]	5003	[4759, 4107]	7024	[6514, 7911]
962	[1812, 1813]	2983	[1078, 3582]	5004	[1275, 6755]	7025	[5218, 7912]
963	[1814, 1815]	2984	[4804, 1028]	5005	[6756, 1736]	7026	[5219, 2295]
964	[1816, 1817]	2985	[4805, 4708]	5006	[3847, 4030]	7027	[5851, 6686]
965	[784, 1818]	2986	[4323, 3416]	5007	[6757, 3903]	7028	[7897, 7913]
966	[1819, 1820]	2987	[3700, 3605]	5008	[1399, 6758]	7029	[2334, 7852]
967	[1821, 1822]	2988	[4806, 4807]	5009	[6759, 3273]	7030	[5969, 6050]
968	[1823, 1824]	2989	[4808, 4809]	5010	[6760, 6761]	7031	[6505, 2635]
969	[1825, 1826]	2990	[4041, 3739]	5011	[6762, 1102]	7032	[6024, 6319]
970	[1827, 1828]	2991	[1215, 4810]	5012	[6763, 1193]	7033	[2901, 239]
971	[1829, 1830]	2992	[3926, 3570]	5013	[6764, 6765]	7034	[643, 5852]
972	[1831, 1832]	2993	[3183, 4811]	5014	[1676, 6766]	7035	[5917, 1860]
973	[1833, 1834]	2994	[4812, 1208]	5015	[6767, 3195]	7036	[2449, 7774]
974	[1835, 1836]	2995	[319, 4813]	5016	[3892, 4619]	7037	[2793, 6375]
975	[1837, 1838]	2996	[4814, 4815]	5017	[3824, 1623]	7038	[2500, 2191]
976	[1839, 1840]	2997	[4816, 4618]	5018	[6768, 4795]	7039	[2422, 7764]
977	[1841, 1842]	2998	[4817, 4818]	5019	[6769, 6770]	7040	[2030, 4954]
978	[1843, 1844]	2999	[4819, 4700]	5020	[6771, 1675]	7041	[6183, 5592]
979	[1845, 1846]	3000	[3194, 354]	5021	[1337, 6772]	7042	[7866, 5073]
980	[1847, 1848]	3001	[4820, 4821]	5022	[3727, 6773]	7043	[7914, 594]
981	[1849, 1850]	3002	[1363, 3200]	5023	[6774, 4794]	7044	[2862, 2331]
982	[1851, 1852]	3003	[4822, 4758]	5024	[6775, 6776]	7045	[2418, 3071]
983	[593, 1853]	3004	[3302, 4823]	5025	[6777, 6778]	7046	[7905, 779]
984	[1854, 1855]	3005	[4824, 1607]	5026	[6779, 6780]	7047	[5027, 5262]
985	[1856, 1857]	3006	[4825, 1706]	5027	[4303, 4387]	7048	[6409, 6568]
986	[1858, 1859]	3007	[976, 3510]	5028	[1487, 3676]	7049	[2685, 7915]
987	[1860, 1861]	3008	[4826, 444]	5029	[6781, 6782]	7050	[5105, 6394]
988	[1862, 1863]	3009	[4526, 4078]	5030	[6783, 6784]	7051	[2667, 2855]
989	[1864, 1865]	3010	[4169, 4827]	5031	[1405, 68]	7052	[5025, 7916]
990	[214, 210]	3011	[1054, 4734]	5032	[3813, 6785]	7053	[7793, 5517]
991	[1866, 1867]	3012	[4828, 4829]	5033	[6786, 4405]	7054	[7917, 6579]
992	[194, 1868]	3013	[4793, 4697]	5034	[4877, 3290]	7055	[523, 2452]

993	[1773, 1869]	3014	[4830, 4831]	5035	[3629, 6787]	7056	[6610, 2458]
994	[1870, 1871]	3015	[4832, 4833]	5036	[6788, 4306]	7057	[7918, 6104]
995	[1872, 1873]	3016	[4834, 4835]	5037	[4506, 6789]	7058	[6645, 5107]
996	[1874, 1875]	3017	[4218, 4003]	5038	[3835, 4923]	7059	[7800, 5778]
997	[1876, 1877]	3018	[3581, 3975]	5039	[6790, 4792]	7060	[1952, 7873]
998	[1878, 1879]	3019	[1542, 4836]	5040	[6746, 6791]	7061	[7919, 6360]
999	[1880, 1881]	3020	[1482, 1449]	5041	[4053, 6792]	7062	[5310, 5858]
1000	[1882, 1883]	3021	[4089, 3868]	5042	[4102, 3994]	7063	[6228, 6641]
1001	[1884, 1885]	3022	[968, 3741]	5043	[6793, 6794]	7064	[2830, 6486]
1002	[1886, 1887]	3023	[1300, 4837]	5044	[4196, 6721]	7065	[7880, 37]
1003	[1888, 1889]	3024	[1302, 4838]	5045	[3822, 4419]	7066	[2323, 5951]
1004	[1890, 781]	3025	[1442, 4455]	5046	[6795, 3961]	7067	[2188, 5940]
1005	[1891, 1892]	3026	[1247, 4204]	5047	[6796, 6797]	7068	[5438, 5423]
1006	[1893, 1894]	3027	[1522, 4691]	5048	[6798, 6799]	7069	[7920, 7921]
1007	[1895, 1896]	3028	[4839, 4840]	5049	[6800, 6801]	7070	[7915, 6587]
1008	[1897, 586]	3029	[3751, 4841]	5050	[4246, 6802]	7071	[6553, 5472]
1009	[1898, 1899]	3030	[4842, 4843]	5051	[4352, 1255]	7072	[7922, 3041]
1010	[1900, 1901]	3031	[4662, 259]	5052	[4293, 6803]	7073	[1899, 596]
1011	[1902, 1903]	3032	[1257, 1662]	5053	[6804, 3983]	7074	[7923, 898]
1012	[1904, 1905]	3033	[4844, 1141]	5054	[3267, 6805]	7075	[7924, 5223]
1013	[1906, 1907]	3034	[4211, 4845]	5055	[4559, 4047]	7076	[2383, 5187]
1014	[1908, 1909]	3035	[1207, 4846]	5056	[4434, 4513]	7077	[6692, 5624]
1015	[1910, 1911]	3036	[3310, 4847]	5057	[4479, 6806]	7078	[2345, 7925]
1016	[1912, 1913]	3037	[3257, 4848]	5058	[4893, 1065]	7079	[1918, 5719]
1017	[749, 1914]	3038	[4849, 4850]	5059	[4374, 4832]	7080	[872, 7926]
1018	[1915, 1916]	3039	[3135, 4583]	5060	[3757, 6741]	7081	[7906, 6642]
1019	[1917, 1918]	3040	[333, 4851]	5061	[3783, 6807]	7082	[5176, 5202]
1020	[1919, 1920]	3041	[451, 4852]	5062	[6808, 6809]	7083	[7927, 7865]
1021	[1921, 1922]	3042	[1688, 3271]	5063	[963, 6810]	7084	[5754, 6513]
1022	[1923, 1924]	3043	[4468, 4853]	5064	[4886, 6811]	7085	[6216, 7928]
1023	[1925, 1926]	3044	[4624, 4854]	5065	[4718, 4934]	7086	[5519, 7929]
1024	[1927, 1928]	3045	[4855, 4856]	5066	[1035, 4549]	7087	[5752, 7773]
1025	[1929, 1930]	3046	[1744, 98]	5067	[6812, 3143]	7088	[6595, 6347]
1026	[1931, 1932]	3047	[4857, 4858]	5068	[6805, 3719]	7089	[904, 6292]
1027	[1933, 1934]	3048	[4859, 4860]	5069	[6813, 25]	7090	[2233, 2581]
1028	[1935, 1878]	3049	[4861, 3244]	5070	[4542, 6814]	7091	[889, 6507]
1029	[1936, 915]	3050	[4862, 4863]	5071	[6815, 6816]	7092	[6316, 495]
1030	[1937, 1938]	3051	[4864, 4865]	5072	[1573, 6779]	7093	[5857, 5596]
1031	[1939, 1940]	3052	[4508, 3429]	5073	[3720, 4013]	7094	[188, 5913]
1032	[1941, 1942]	3053	[4570, 3189]	5074	[6817, 6818]	7095	[2945, 7859]
1033	[1943, 1841]	3054	[4851, 4806]	5075	[6819, 6763]	7096	[2522, 7892]
1034	[669, 1862]	3055	[4866, 4867]	5076	[3156, 6820]	7097	[4998, 2951]
1035	[1944, 1945]	3056	[1497, 1362]	5077	[6821, 6822]	7098	[7899, 7930]
1036	[1946, 642]	3057	[4868, 4869]	5078	[108, 940]	7099	[140, 6489]

1037	[1947, 1948]	3058	[4111, 4870]	5079	[6823, 4037]	7100	[743, 5648]
1038	[1949, 1950]	3059	[4871, 4872]	5080	[3642, 6824]	7101	[7931, 6518]
1039	[1951, 1952]	3060	[3990, 1414]	5081	[6825, 6826]	7102	[7890, 2286]
1040	[747, 1953]	3061	[4873, 4874]	5082	[3743, 6827]	7103	[659, 2895]
1041	[1954, 1955]	3062	[4875, 4876]	5083	[290, 6828]	7104	[5929, 6684]
1042	[1956, 899]	3063	[964, 4877]	5084	[6829, 4083]	7105	[7932, 6112]
1043	[1957, 1958]	3064	[4878, 4879]	5085	[6830, 3400]	7106	[7933, 6229]
1044	[1959, 1960]	3065	[1714, 4880]	5086	[3851, 6831]	7107	[2947, 871]
1045	[1961, 1962]	3066	[4881, 4882]	5087	[6832, 4367]	7108	[5415, 6012]
1046	[1928, 1963]	3067	[4883, 4884]	5088	[1269, 6833]	7109	[5098, 6346]
1047	[1964, 1965]	3068	[4885, 4886]	5089	[377, 6834]	7110	[7765, 6493]
1048	[1966, 1967]	3069	[4887, 4888]	5090	[4412, 6835]	7111	[5997, 5743]
1049	[1968, 1969]	3070	[1431, 4889]	5091	[6836, 1312]	7112	[6689, 6557]
1050	[1970, 1971]	3071	[4144, 346]	5092	[6837, 4394]	7113	[5283, 5342]
1051	[1972, 1973]	3072	[3537, 4598]	5093	[6747, 4539]	7114	[6021, 7934]
1052	[1974, 1975]	3073	[4890, 4337]	5094	[6838, 6839]	7115	[6442, 5179]
1053	[811, 1976]	3074	[4891, 4396]	5095	[431, 6840]	7116	[6571, 6365]
1054	[1977, 1978]	3075	[3173, 4817]	5096	[1068, 4359]	7117	[6193, 6674]
1055	[1979, 1980]	3076	[4892, 4893]	5097	[4581, 6841]	7118	[3011, 6348]
1056	[1981, 1982]	3077	[4894, 4895]	5098	[6722, 6842]	7119	[2488, 3126]
1057	[1983, 1984]	3078	[4896, 3840]	5099	[6843, 6844]	7120	[5333, 5442]
1058	[1985, 1986]	3079	[4897, 4898]	5100	[3828, 1494]	7121	[7912, 5535]
1059	[1987, 1988]	3080	[4899, 4900]	5101	[3830, 3722]	7122	[6522, 7935]
1060	[1989, 1990]	3081	[3401, 4901]	5102	[101, 4461]	7123	[7936, 6214]
1061	[1991, 1992]	3082	[1130, 3251]	5103	[6751, 3683]	7124	[6685, 7914]
1062	[1993, 141]	3083	[4902, 4903]	5104	[6845, 6846]	7125	[7821, 5024]
1063	[1994, 1995]	3084	[4904, 265]	5105	[1229, 4887]	7126	[7829, 6626]
1064	[1996, 1997]	3085	[4905, 4141]	5106	[6778, 1483]	7127	[2351, 7937]
1065	[1998, 822]	3086	[4906, 269]	5107	[6847, 6848]	7128	[2619, 7938]
1066	[1999, 2000]	3087	[3842, 4201]	5108	[4829, 6849]	7129	[2231, 6307]
1067	[729, 2001]	3088	[1115, 4907]	5109	[4449, 6850]	7130	[5599, 2290]
1068	[2002, 2003]	3089	[4908, 4909]	5110	[3405, 3831]	7131	[5524, 7877]
1069	[2004, 2005]	3090	[4220, 4017]	5111	[4287, 4270]	7132	[6175, 5428]
1070	[2006, 2007]	3091	[3357, 1383]	5112	[3609, 4586]	7133	[7913, 7903]
1071	[500, 2008]	3092	[4910, 4382]	5113	[6851, 6852]	7134	[1938, 5400]
1072	[2009, 2010]	3093	[4911, 4912]	5114	[4128, 64]	7135	[1767, 2914]
1073	[2011, 2012]	3094	[1476, 4913]	5115	[1723, 6853]	7136	[6584, 5835]
1074	[2013, 2014]	3095	[4617, 4914]	5116	[3325, 3574]	7137	[5742, 2112]
1075	[2015, 2016]	3096	[4915, 1656]	5117	[3970, 3435]	7138	[2211, 6640]
1076	[2017, 2018]	3097	[3475, 4916]	5118	[1305, 6854]	7139	[6116, 7832]
1077	[512, 2019]	3098	[4917, 4918]	5119	[6855, 3752]	7140	[7939, 5783]
1078	[2020, 2021]	3099	[4919, 4920]	5120	[6725, 6856]	7141	[6448, 5649]
1079	[2022, 2023]	3100	[4462, 378]	5121	[329, 4432]	7142	[6576, 2284]
1080	[1953, 2024]	3101	[3205, 1240]	5122	[4407, 4668]	7143	[5680, 3108]

1081	[1955, 2025]	3102	[1329, 4453]	5123	[6857, 6858]	7144	[5001, 5140]
1082	[2026, 2027]	3103	[4921, 4922]	5124	[6859, 4046]	7145	[1859, 3111]
1083	[2028, 2029]	3104	[4923, 4924]	5125	[6860, 6861]	7146	[1769, 3101]
1084	[176, 2030]	3105	[4125, 984]	5126	[99, 4481]	7147	[7940, 3017]
1085	[2031, 2032]	3106	[4925, 4926]	5127	[6862, 3550]	7148	[2941, 7941]
1086	[2033, 2034]	3107	[4927, 3679]	5128	[6863, 6790]	7149	[2627, 5968]
1087	[44, 2035]	3108	[4536, 4928]	5129	[6864, 4074]	7150	[6413, 5189]
1088	[2036, 2037]	3109	[3209, 4553]	5130	[6865, 6866]	7151	[7942, 7943]
1089	[2038, 2039]	3110	[4929, 392]	5131	[6867, 4765]	7152	[902, 756]
1090	[2040, 2041]	3111	[3477, 4930]	5132	[4613, 1644]	7153	[2552, 3006]
1091	[2042, 921]	3112	[3289, 4931]	5133	[3805, 6868]	7154	[5043, 199]
1092	[2043, 2044]	3113	[4932, 3845]	5134	[6869, 422]	7155	[2864, 7944]
1093	[826, 2045]	3114	[462, 4933]	5135	[1369, 1002]	7156	[2363, 2572]
1094	[2046, 2047]	3115	[4934, 4935]	5136	[6870, 4822]	7157	[7929, 7945]
1095	[2048, 2049]	3116	[4936, 4937]	5137	[6871, 6872]	7158	[5255, 7946]
1096	[2050, 2051]	3117	[4938, 4065]	5138	[1564, 6873]	7159	[6189, 6343]
1097	[2052, 2053]	3118	[1647, 4939]	5139	[4036, 6874]	7160	[6663, 5763]
1098	[2054, 2055]	3119	[3771, 4332]	5140	[6849, 4890]	7161	[769, 6318]
1099	[2056, 2057]	3120	[1638, 4782]	5141	[89, 3736]	7162	[5876, 7947]
1100	[2058, 707]	3121	[4940, 4941]	5142	[3169, 3607]	7163	[547, 7948]
1101	[2059, 2060]	3122	[4942, 1578]	5143	[6875, 6876]	7164	[2378, 840]
1102	[2061, 2062]	3123	[4230, 261]	5144	[6877, 6878]	7165	[639, 7949]
1103	[2063, 2064]	3124	[4031, 4943]	5145	[6879, 4454]	7166	[641, 7784]
1104	[2065, 2066]	3125	[4944, 4945]	5146	[6880, 1703]	7167	[1877, 5235]
1105	[2067, 2068]	3126	[4946, 1684]	5147	[3501, 6881]	7168	[5603, 5209]
1106	[864, 2069]	3127	[4947, 4948]	5148	[3507, 6882]	7169	[6234, 7950]
1107	[702, 2070]	3128	[4949, 4950]	5149	[3457, 1490]	7170	[7951, 1931]
1108	[2071, 2072]	3129	[4951, 3073]	5150	[1003, 6883]	7171	[7894, 133]
1109	[2073, 2074]	3130	[4952, 4953]	5151	[3650, 4906]	7172	[883, 5662]
1110	[2075, 2076]	3131	[4954, 4955]	5152	[4935, 6884]	7173	[7952, 2586]
1111	[2077, 2078]	3132	[4956, 2304]	5153	[6885, 6886]	7174	[2237, 6065]
1112	[2079, 2080]	3133	[4957, 4958]	5154	[4451, 4641]	7175	[7772, 6427]
1113	[2081, 2082]	3134	[4959, 2692]	5155	[4233, 6887]	7176	[7916, 7768]
1114	[2083, 2084]	3135	[4960, 4961]	5156	[6888, 3950]	7177	[7953, 6696]
1115	[2085, 2086]	3136	[4962, 878]	5157	[6889, 1430]	7178	[3018, 2547]
1116	[2087, 2088]	3137	[1807, 4963]	5158	[6712, 6890]	7179	[7921, 6008]
1117	[2089, 2090]	3138	[4964, 4965]	5159	[6891, 3301]	7180	[7954, 5630]
1118	[2091, 2092]	3139	[4966, 532]	5160	[1540, 1677]	7181	[7826, 6274]
1119	[2093, 2094]	3140	[4967, 2937]	5161	[6892, 6893]	7182	[5108, 7955]
1120	[2095, 2096]	3141	[4968, 4969]	5162	[3779, 6894]	7183	[6366, 783]
1121	[2097, 2098]	3142	[4970, 4971]	5163	[6895, 3264]	7184	[6362, 7798]
1122	[211, 2099]	3143	[4972, 2778]	5164	[6896, 6897]	7185	[2499, 7956]
1123	[2100, 2101]	3144	[4973, 4974]	5165	[6898, 6899]	7186	[6509, 7957]
1124	[2102, 2103]	3145	[4975, 2260]	5166	[6900, 6901]	7187	[7881, 6257]

1125	[2104, 2105]	3146	[4976, 4977]	5167	[6902, 6903]	7188	[6095, 2215]
1126	[2106, 2107]	3147	[719, 4978]	5168	[3790, 1316]	7189	[2064, 2239]
1127	[2108, 2109]	3148	[1824, 1816]	5169	[1413, 1705]	7190	[2196, 1964]
1128	[2110, 2111]	3149	[4979, 159]	5170	[4723, 6904]	7191	[5393, 7819]
1129	[2112, 2113]	3150	[4980, 4981]	5171	[6905, 1318]	7192	[2971, 5697]
1130	[2023, 2114]	3151	[4982, 4983]	5172	[3980, 6906]	7193	[709, 3102]
1131	[2115, 2116]	3152	[4984, 4985]	5173	[6907, 3340]	7194	[7889, 6511]
1132	[2117, 2118]	3153	[535, 4986]	5174	[4771, 4199]	7195	[6263, 2873]
1133	[2119, 2120]	3154	[2005, 4987]	5175	[6908, 6909]	7196	[47, 5780]
1134	[2121, 2122]	3155	[2802, 4988]	5176	[4699, 1496]	7197	[6544, 6564]
1135	[2123, 2124]	3156	[4989, 4990]	5177	[6910, 6911]	7198	[190, 6304]
1136	[2125, 2126]	3157	[4991, 4992]	5178	[4717, 4908]	7199	[7958, 5019]
1137	[855, 2127]	3158	[4993, 4994]	5179	[6912, 6913]	7200	[7959, 5537]
1138	[2128, 2129]	3159	[601, 4995]	5180	[6914, 4166]	7201	[5327, 7960]
1139	[2130, 2131]	3160	[4996, 4997]	5181	[6915, 6916]	7202	[6142, 6295]
1140	[2021, 2132]	3161	[2279, 4998]	5182	[3361, 3377]	7203	[5775, 7828]
1141	[2133, 2134]	3162	[4999, 1891]	5183	[1446, 3889]	7204	[3074, 2563]
1142	[576, 2135]	3163	[5000, 5001]	5184	[4385, 6912]	7205	[7961, 6562]
1143	[2136, 2137]	3164	[5002, 2390]	5185	[3625, 6917]	7206	[7962, 6163]
1144	[2138, 2139]	3165	[5003, 2391]	5186	[6918, 1230]	7207	[7963, 7964]
1145	[2140, 2141]	3166	[591, 5004]	5187	[1062, 6919]	7208	[5274, 6665]
1146	[653, 2142]	3167	[5005, 5006]	5188	[4094, 3934]	7209	[2018, 4991]
1147	[2143, 2144]	3168	[2598, 5007]	5189	[6920, 3233]	7210	[2881, 7965]
1148	[2145, 2146]	3169	[2177, 2825]	5190	[4540, 6749]	7211	[5977, 5911]
1149	[2147, 2148]	3170	[906, 3064]	5191	[6921, 6922]	7212	[5978, 2038]
1150	[2149, 499]	3171	[2703, 5008]	5192	[6923, 4302]	7213	[488, 7966]
1151	[2150, 2151]	3172	[5009, 2333]	5193	[6924, 6925]	7214	[5992, 1827]
1152	[2152, 2153]	3173	[5010, 5011]	5194	[6926, 6927]	7215	[1868, 6600]
1153	[2154, 2155]	3174	[2024, 2382]	5195	[6928, 4533]	7216	[2548, 7838]
1154	[2057, 2156]	3175	[5012, 5013]	5196	[6929, 4438]	7217	[7967, 5959]
1155	[2157, 2158]	3176	[645, 2576]	5197	[6930, 1743]	7218	[2116, 7968]
1156	[2159, 2160]	3177	[5014, 5015]	5198	[1136, 1320]	7219	[7969, 2744]
1157	[2161, 2162]	3178	[2041, 5016]	5199	[3963, 1652]	7220	[5509, 6192]
1158	[2163, 2164]	3179	[5017, 852]	5200	[3284, 6931]	7221	[2689, 7970]
1159	[2165, 2166]	3180	[5018, 668]	5201	[1249, 955]	7222	[7971, 2787]
1160	[2167, 2168]	3181	[5019, 5020]	5202	[6932, 6933]	7223	[1975, 5403]
1161	[537, 2169]	3182	[5021, 2243]	5203	[4850, 6934]	7224	[6458, 7875]
1162	[774, 2170]	3183	[5022, 5023]	5204	[6935, 6936]	7225	[5963, 7972]
1163	[916, 2171]	3184	[5024, 5025]	5205	[4551, 6924]	7226	[5696, 7973]
1164	[2172, 2173]	3185	[5026, 5027]	5206	[3128, 3815]	7227	[6526, 6582]
1165	[2174, 2175]	3186	[5028, 2108]	5207	[6766, 6937]	7228	[5146, 678]
1166	[2176, 2177]	3187	[3106, 5029]	5208	[1519, 6938]	7229	[817, 2467]
1167	[218, 2178]	3188	[200, 5030]	5209	[4943, 6939]	7230	[6477, 2002]
1168	[2179, 2180]	3189	[5031, 5032]	5210	[3365, 6940]	7231	[2151, 874]

1169	[2181, 2182]	3190	[5033, 5034]	5211	[6941, 416]	7232	[7964, 1983]
1170	[55, 2183]	3191	[154, 5035]	5212	[4645, 6942]	7233	[1988, 6700]
1171	[2184, 2185]	3192	[2924, 5036]	5213	[6943, 1092]	7234	[7887, 4984]
1172	[2186, 2123]	3193	[5037, 5038]	5214	[6944, 6945]	7235	[7870, 2813]
1173	[2187, 2188]	3194	[5039, 5040]	5215	[6946, 4730]	7236	[220, 5926]
1174	[2189, 2190]	3195	[5041, 5042]	5216	[6947, 6948]	7237	[7876, 884]
1175	[2191, 2192]	3196	[2182, 5043]	5217	[3957, 4546]	7238	[5891, 5455]
1176	[2193, 1819]	3197	[5044, 5045]	5218	[1711, 4871]	7239	[5398, 5185]
1177	[2194, 2195]	3198	[1889, 493]	5219	[4811, 4129]	7240	[7896, 5883]
1178	[735, 2196]	3199	[5046, 5047]	5220	[6890, 4294]	7241	[7950, 6559]
1179	[920, 2197]	3200	[5048, 2143]	5221	[6949, 6950]	7242	[585, 3082]
1180	[2198, 2199]	3201	[5049, 5050]	5222	[6951, 3470]	7243	[5711, 5133]
1181	[2200, 2201]	3202	[5051, 648]	5223	[3520, 6952]	7244	[5909, 45]
1182	[2202, 2203]	3203	[2131, 2776]	5224	[3777, 3935]	7245	[2938, 6374]
1183	[2204, 2205]	3204	[5052, 5002]	5225	[6953, 6954]	7246	[5602, 2075]
1184	[2206, 2207]	3205	[5053, 2306]	5226	[6955, 6956]	7247	[5698, 3058]
1185	[2208, 2209]	3206	[5054, 5055]	5227	[6957, 277]	7248	[7974, 5324]
1186	[2210, 2211]	3207	[5056, 5057]	5228	[6958, 1417]	7249	[2898, 7918]
1187	[2037, 748]	3208	[518, 5058]	5229	[4766, 6959]	7250	[877, 5240]
1188	[731, 2167]	3209	[2723, 1837]	5230	[6960, 6961]	7251	[2624, 7975]
1189	[2212, 9]	3210	[1980, 5059]	5231	[6962, 1595]	7252	[7968, 5656]
1190	[2213, 2214]	3211	[5060, 5061]	5232	[4600, 4650]	7253	[2218, 2491]
1191	[2215, 2216]	3212	[2014, 1876]	5233	[6933, 4537]	7254	[5572, 6331]
1192	[2217, 2218]	3213	[2597, 5062]	5234	[3473, 4917]	7255	[216, 6118]
1193	[2219, 2220]	3214	[5063, 5064]	5235	[1456, 1752]	7256	[7976, 7977]
1194	[2221, 2222]	3215	[5065, 5066]	5236	[3319, 1469]	7257	[5755, 2918]
1195	[2223, 2224]	3216	[5067, 1765]	5237	[6963, 4604]	7258	[5799, 2149]
1196	[788, 2225]	3217	[3091, 5068]	5238	[6964, 6965]	7259	[7978, 6475]
1197	[2226, 2227]	3218	[2591, 3055]	5239	[4769, 3393]	7260	[6586, 7979]
1198	[2228, 2229]	3219	[3076, 2883]	5240	[6966, 3396]	7261	[7980, 7976]
1199	[2230, 2231]	3220	[5069, 2478]	5241	[6967, 6968]	7262	[2120, 6521]
1200	[2232, 2233]	3221	[2745, 163]	5242	[6969, 6970]	7263	[5194, 5961]
1201	[2234, 2235]	3222	[2360, 5070]	5243	[6971, 6972]	7264	[5571, 7862]
1202	[2236, 2237]	3223	[5071, 5072]	5244	[6973, 979]	7265	[1879, 2326]
1203	[2238, 844]	3224	[5073, 5074]	5245	[3419, 6974]	7266	[2566, 5587]
1204	[2239, 2240]	3225	[2791, 5075]	5246	[4188, 6975]	7267	[6224, 2915]
1205	[2241, 2242]	3226	[5076, 5077]	5247	[3745, 6976]	7268	[7977, 2926]
1206	[2243, 2244]	3227	[5078, 5079]	5248	[6977, 6973]	7269	[6555, 1776]
1207	[2245, 2246]	3228	[5080, 5081]	5249	[1041, 1080]	7270	[2852, 7969]
1208	[2247, 2248]	3229	[2148, 5082]	5250	[6978, 3705]	7271	[5280, 1956]
1209	[2249, 894]	3230	[5083, 5084]	5251	[6979, 6980]	7272	[5757, 2992]
1210	[2250, 2251]	3231	[5085, 5086]	5252	[6981, 6982]	7273	[6547, 7981]
1211	[2252, 2253]	3232	[5087, 5088]	5253	[3317, 6983]	7274	[5547, 5690]
1212	[2254, 2255]	3233	[5089, 5090]	5254	[6984, 358]	7275	[5346, 5177]

1213	[2256, 2257]	3234	[5091, 5092]	5255	[3920, 6985]	7276	[2183, 5617]
1214	[2258, 2259]	3235	[5093, 5094]	5256	[317, 4828]	7277	[2735, 6449]
1215	[2260, 2095]	3236	[830, 2637]	5257	[1569, 6986]	7278	[192, 5278]
1216	[2261, 2262]	3237	[5095, 5096]	5258	[3913, 6987]	7279	[2620, 5715]
1217	[2263, 2264]	3238	[4958, 5097]	5259	[3917, 6988]	7280	[6296, 7967]
1218	[2265, 2266]	3239	[798, 3110]	5260	[3853, 6989]	7281	[7982, 5915]
1219	[2267, 630]	3240	[647, 5098]	5261	[6990, 6991]	7282	[6027, 5130]
1220	[2268, 2269]	3241	[5064, 5099]	5262	[3489, 4448]	7283	[1795, 7782]
1221	[2270, 2271]	3242	[5100, 5101]	5263	[6992, 6993]	7284	[2464, 5318]
1222	[2272, 842]	3243	[5102, 5103]	5264	[6994, 3673]	7285	[7930, 6181]
1223	[2273, 2274]	3244	[5104, 5105]	5265	[1626, 1206]	7286	[5230, 5955]
1224	[2275, 2121]	3245	[5106, 618]	5266	[4801, 6992]	7287	[7983, 6040]
1225	[2276, 2277]	3246	[5107, 5108]	5267	[6995, 3411]	7288	[7874, 497]
1226	[2278, 2279]	3247	[5109, 5110]	5268	[6755, 6996]	7289	[5061, 7823]
1227	[2280, 2281]	3248	[2214, 2851]	5269	[6909, 3599]	7290	[7984, 7985]
1228	[2282, 2283]	3249	[5111, 5112]	5270	[6899, 6997]	7291	[7986, 7987]
1229	[2284, 2285]	3250	[5113, 5114]	5271	[1169, 3616]	7292	[5718, 7891]
1230	[2286, 2287]	3251	[2113, 606]	5272	[6998, 6999]	7293	[5704, 5798]
1231	[2288, 2289]	3252	[552, 5115]	5273	[4577, 1590]	7294	[14, 5856]
1232	[2290, 2291]	3253	[2309, 2083]	5274	[7000, 7001]	7295	[2595, 1851]
1233	[2292, 2293]	3254	[5116, 2036]	5275	[4113, 7002]	7296	[2514, 2561]
1234	[202, 2294]	3255	[1771, 2217]	5276	[4660, 7003]	7297	[2612, 169]
1235	[2295, 2296]	3256	[2917, 5117]	5277	[7004, 7005]	7298	[2929, 6074]
1236	[2297, 2298]	3257	[5118, 905]	5278	[7006, 7007]	7299	[6492, 6690]
1237	[2299, 2300]	3258	[3022, 5119]	5279	[381, 1017]	7300	[1861, 173]
1238	[2301, 2302]	3259	[5120, 5121]	5280	[1751, 7008]	7301	[631, 7988]
1239	[1940, 2303]	3260	[5122, 5123]	5281	[7009, 6969]	7302	[2137, 2639]
1240	[2304, 2305]	3261	[5124, 5125]	5282	[7010, 3707]	7303	[6380, 6007]
1241	[2306, 2307]	3262	[5126, 5127]	5283	[7011, 4673]	7304	[5655, 588]
1242	[2308, 2309]	3263	[40, 2359]	5284	[6833, 4633]	7305	[2988, 7755]
1243	[1881, 2310]	3264	[739, 2985]	5285	[7012, 7013]	7306	[6654, 2198]
1244	[2311, 2312]	3265	[5128, 5129]	5286	[3597, 7014]	7307	[6363, 5847]
1245	[2313, 2314]	3266	[5130, 2097]	5287	[7015, 6949]	7308	[7989, 5328]
1246	[2315, 2316]	3267	[5131, 5132]	5288	[4425, 3567]	7309	[5575, 6308]
1247	[2317, 2028]	3268	[5133, 5134]	5289	[7016, 7017]	7310	[6556, 7920]
1248	[2318, 2319]	3269	[5135, 2754]	5290	[1598, 4602]	7311	[6541, 7990]
1249	[2320, 2321]	3270	[5136, 5137]	5291	[3261, 3971]	7312	[1846, 7933]
1250	[2322, 2323]	3271	[2706, 5138]	5292	[6913, 4946]	7313	[7991, 2130]
1251	[2324, 2325]	3272	[3028, 2859]	5293	[7018, 1574]	7314	[7981, 157]
1252	[2326, 2327]	3273	[5139, 1786]	5294	[3220, 1669]	7315	[7834, 2549]
1253	[2328, 2273]	3274	[5140, 2437]	5295	[6894, 7019]	7316	[7777, 5153]
1254	[2329, 2330]	3275	[5141, 5142]	5296	[4433, 4677]	7317	[5672, 7992]
1255	[2331, 2332]	3276	[5143, 686]	5297	[7020, 4503]	7318	[5688, 2528]
1256	[2333, 2334]	3277	[773, 5144]	5298	[1237, 7021]	7319	[7763, 6591]

1257	[2335, 2336]	3278	[5145, 5146]	5299	[4713, 7022]	7320	[6524, 6592]
1258	[2337, 2338]	3279	[1990, 5147]	5300	[3992, 4059]	7321	[6590, 7993]
1259	[2339, 620]	3280	[5148, 5149]	5301	[7023, 1612]	7322	[7994, 7882]
1260	[2340, 2341]	3281	[5150, 5151]	5302	[7024, 3880]	7323	[1820, 2402]
1261	[2342, 2343]	3282	[1903, 5152]	5303	[6997, 4812]	7324	[5479, 5421]
1262	[2344, 2345]	3283	[5153, 5154]	5304	[7025, 7026]	7325	[2919, 2678]
1263	[2346, 2347]	3284	[5155, 5156]	5305	[4558, 6819]	7326	[6652, 7939]
1264	[2348, 2349]	3285	[5157, 5158]	5306	[6989, 7027]	7327	[6425, 5136]
1265	[2350, 2351]	3286	[5159, 5160]	5307	[6991, 7028]	7328	[5269, 5825]
1266	[2352, 2353]	3287	[5161, 5162]	5308	[982, 7029]	7329	[5815, 6675]
1267	[2354, 2355]	3288	[5163, 5164]	5309	[7030, 6978]	7330	[1984, 6013]
1268	[2246, 2356]	3289	[5165, 3094]	5310	[1433, 4330]	7331	[2717, 7995]
1269	[2357, 2358]	3290	[5166, 5167]	5311	[3389, 7031]	7332	[5121, 7996]
1270	[2359, 2360]	3291	[5168, 680]	5312	[4023, 7032]	7333	[6336, 1864]
1271	[2361, 2176]	3292	[5169, 5170]	5313	[4133, 4518]	7334	[2950, 789]
1272	[2362, 2363]	3293	[5171, 5172]	5314	[4561, 4519]	7335	[2970, 5225]
1273	[2364, 2365]	3294	[5173, 2368]	5315	[4630, 7033]	7336	[7997, 7770]
1274	[2366, 2367]	3295	[5174, 5083]	5316	[7034, 7035]	7337	[5706, 7771]
1275	[2368, 2369]	3296	[5175, 5176]	5317	[3471, 7036]	7338	[661, 7978]
1276	[2370, 2371]	3297	[760, 1829]	5318	[4098, 4172]	7339	[2909, 6545]
1277	[2372, 2373]	3298	[5177, 5178]	5319	[4210, 3162]	7340	[7998, 6472]
1278	[2374, 2375]	3299	[5179, 2623]	5320	[4152, 3954]	7341	[3079, 5067]
1279	[2376, 2377]	3300	[5180, 2433]	5321	[6715, 6905]	7342	[7999, 6678]
1280	[572, 2378]	3301	[2051, 1985]	5322	[4328, 1520]	7343	[7948, 4975]
1281	[2379, 2009]	3302	[5181, 5182]	5323	[7037, 6928]	7344	[7935, 2513]
1282	[2380, 2381]	3303	[753, 5183]	5324	[7038, 7039]	7345	[8000, 5450]
1283	[2382, 2383]	3304	[4985, 890]	5325	[3131, 6812]	7346	[7908, 6397]
1284	[2384, 2385]	3305	[2604, 5184]	5326	[1085, 7040]	7347	[5503, 5118]
1285	[2386, 549]	3306	[5185, 5186]	5327	[7041, 3210]	7348	[6344, 8001]
1286	[2387, 2245]	3307	[5187, 5188]	5328	[4907, 3589]	7349	[5366, 724]
1287	[2388, 2389]	3308	[778, 2660]	5329	[7042, 7043]	7350	[819, 6630]
1288	[2101, 2046]	3309	[5189, 5190]	5330	[4250, 7044]	7351	[3059, 2431]
1289	[2390, 2193]	3310	[5191, 5192]	5331	[7045, 4830]	7352	[2747, 2119]
1290	[2391, 2392]	3311	[5193, 5194]	5332	[7046, 3787]	7353	[5828, 7759]
1291	[2220, 2393]	3312	[5195, 5196]	5333	[4369, 4919]	7354	[2534, 1947]
1292	[2394, 2395]	3313	[5055, 579]	5334	[262, 3709]	7355	[5707, 5296]
1293	[2396, 2397]	3314	[5197, 1921]	5335	[7047, 7048]	7356	[6287, 2574]
1294	[2398, 2399]	3315	[5198, 682]	5336	[7049, 6943]	7357	[7848, 2115]
1295	[2400, 2401]	3316	[5199, 5197]	5337	[7050, 4429]	7358	[7851, 2763]
1296	[2402, 2403]	3317	[5200, 5201]	5338	[4198, 1500]	7359	[2496, 5239]
1297	[2404, 1943]	3318	[2365, 2688]	5339	[7051, 7018]	7360	[1958, 8002]
1298	[2405, 2406]	3319	[5202, 5203]	5340	[3839, 3968]	7361	[5794, 6015]
1299	[2407, 2408]	3320	[5204, 5205]	5341	[4167, 4209]	7362	[5863, 7982]
1300	[2409, 2410]	3321	[5206, 5207]	5342	[7052, 364]	7363	[5982, 1866]

1301	[2411, 2412]	3322	[2347, 5208]	5343	[7053, 4745]	7364	[6633, 7953]
1302	[2413, 2414]	3323	[5209, 5087]	5344	[6807, 3660]	7365	[5808, 8003]
1303	[2415, 2416]	3324	[5210, 5211]	5345	[7054, 4911]	7366	[8004, 6094]
1304	[2417, 2418]	3325	[5212, 5213]	5346	[7055, 7041]	7367	[5534, 5604]
1305	[2419, 2420]	3326	[238, 5214]	5347	[1753, 6875]	7368	[8005, 5933]
1306	[2421, 2422]	3327	[745, 2040]	5348	[7056, 1326]	7369	[5714, 1804]
1307	[2423, 2424]	3328	[5215, 5216]	5349	[7035, 7057]	7370	[615, 5220]
1308	[2425, 2426]	3329	[5217, 2751]	5350	[3864, 7058]	7371	[8006, 6479]
1309	[2427, 2428]	3330	[5144, 5218]	5351	[7059, 396]	7372	[5670, 7984]
1310	[2429, 2430]	3331	[1967, 5219]	5352	[6844, 7060]	7373	[6246, 1974]
1311	[2431, 2432]	3332	[5220, 5221]	5353	[4646, 4100]	7374	[4986, 8007]
1312	[2433, 2434]	3333	[5222, 923]	5354	[1562, 7061]	7375	[6618, 728]
1313	[2435, 2436]	3334	[5223, 5224]	5355	[4480, 4184]	7376	[7937, 658]
1314	[2437, 1904]	3335	[5225, 5226]	5356	[4835, 4902]	7377	[7868, 6646]
1315	[2438, 2439]	3336	[5227, 139]	5357	[4719, 7062]	7378	[6131, 2684]
1316	[2440, 2441]	3337	[2156, 5228]	5358	[7063, 7064]	7379	[6631, 5321]
1317	[2442, 2443]	3338	[5229, 5230]	5359	[7065, 6941]	7380	[5205, 5870]
1318	[2444, 829]	3339	[2681, 5217]	5360	[7066, 4484]	7381	[7783, 8008]
1319	[2445, 2425]	3340	[5231, 5232]	5361	[7067, 4268]	7382	[6068, 8009]
1320	[2446, 2335]	3341	[5233, 2742]	5362	[4122, 3991]	7383	[875, 7863]
1321	[2126, 2447]	3342	[5234, 3097]	5363	[4567, 3468]	7384	[7753, 7766]
1322	[2448, 2449]	3343	[5235, 5236]	5364	[7068, 3391]	7385	[8010, 5576]
1323	[2450, 2451]	3344	[5237, 5238]	5365	[7069, 3369]	7386	[5817, 546]
1324	[2452, 2453]	3345	[2385, 2301]	5366	[7070, 4743]	7387	[6268, 6355]
1325	[2454, 2455]	3346	[5239, 1923]	5367	[4670, 7071]	7388	[2559, 7919]
1326	[2456, 2457]	3347	[5240, 1925]	5368	[7072, 356]	7389	[8011, 5930]
1327	[2458, 2324]	3348	[5241, 5242]	5369	[7073, 7074]	7390	[7872, 8012]
1328	[2459, 2460]	3349	[130, 2006]	5370	[7075, 7076]	7391	[8013, 6111]
1329	[2461, 2462]	3350	[5243, 2133]	5371	[3649, 7077]	7392	[8014, 820]
1330	[2463, 2464]	3351	[5244, 5245]	5372	[4391, 6798]	7393	[8007, 8006]
1331	[2465, 2466]	3352	[5246, 5247]	5373	[7078, 6759]	7394	[7849, 1792]
1332	[2467, 2468]	3353	[5117, 5248]	5374	[1023, 1352]	7395	[7847, 2755]
1333	[2469, 2470]	3354	[2169, 5249]	5375	[1020, 7079]	7396	[8015, 6130]
1334	[2471, 2472]	3355	[866, 5250]	5376	[1021, 7080]	7397	[918, 6391]
1335	[2373, 2473]	3356	[2504, 2551]	5377	[7081, 4532]	7398	[5678, 5813]
1336	[2474, 2475]	3357	[5251, 5252]	5378	[7082, 7083]	7399	[6260, 7789]
1337	[168, 2476]	3358	[5253, 5254]	5379	[7084, 1143]	7400	[6376, 7797]
1338	[2477, 2050]	3359	[2936, 5255]	5380	[7085, 3910]	7401	[8016, 517]
1339	[2478, 2052]	3360	[5256, 787]	5381	[3403, 1754]	7402	[5226, 6426]
1340	[2479, 2048]	3361	[2773, 5257]	5382	[7086, 7087]	7403	[8017, 6341]
1341	[2480, 2481]	3362	[5258, 5259]	5383	[7088, 4483]	7404	[824, 7986]
1342	[2482, 2483]	3363	[5260, 5261]	5384	[1384, 7089]	7405	[4971, 2531]
1343	[2484, 2485]	3364	[5262, 5263]	5385	[7090, 7091]	7406	[6127, 2252]
1344	[2486, 2487]	3365	[5264, 5265]	5386	[7092, 3336]	7407	[6179, 5578]

1345	[595, 2488]	3366	[2980, 5266]	5387	[7093, 4710]	7408	[2416, 6217]
1346	[2489, 2490]	3367	[1934, 5267]	5388	[7094, 7085]	7409	[8018, 5051]
1347	[2491, 2492]	3368	[5268, 5269]	5389	[3608, 7095]	7410	[3125, 6370]
1348	[2493, 2494]	3369	[5270, 2200]	5390	[7096, 1488]	7411	[5899, 8019]
1349	[2495, 2496]	3370	[5271, 5272]	5391	[4501, 1616]	7412	[7972, 5525]
1350	[2497, 2498]	3371	[5273, 5274]	5392	[7097, 3180]	7413	[5882, 2759]
1351	[607, 2499]	3372	[5275, 233]	5393	[3397, 104]	7414	[7941, 6676]
1352	[1924, 2500]	3373	[5276, 5277]	5394	[7098, 7099]	7415	[6187, 6464]
1353	[2501, 2502]	3374	[2078, 1941]	5395	[7100, 4615]	7416	[6236, 7780]
1354	[2503, 2504]	3375	[5278, 5279]	5396	[7101, 4616]	7417	[2090, 5150]
1355	[782, 2505]	3376	[1960, 5280]	5397	[4865, 1543]	7418	[6467, 8016]
1356	[2506, 54]	3377	[2866, 5281]	5398	[7102, 6918]	7419	[8020, 2666]
1357	[2507, 2508]	3378	[5282, 5283]	5399	[7103, 7104]	7420	[7864, 5354]
1358	[2509, 2510]	3379	[5284, 5285]	5400	[3250, 1613]	7421	[2012, 8021]
1359	[2511, 2512]	3380	[5286, 5287]	5401	[337, 7105]	7422	[5873, 5660]
1360	[2513, 2514]	3381	[2640, 5288]	5402	[4841, 7106]	7423	[53, 6108]
1361	[2515, 2516]	3382	[5289, 5290]	5403	[7107, 6804]	7424	[8022, 2785]
1362	[2517, 2518]	3383	[5291, 5292]	5404	[3479, 7108]	7425	[7945, 8023]
1363	[2519, 2520]	3384	[5293, 5294]	5405	[7109, 4368]	7426	[6497, 8024]
1364	[2521, 2522]	3385	[2890, 5295]	5406	[7110, 3966]	7427	[5344, 2935]
1365	[2523, 555]	3386	[5296, 2278]	5407	[3702, 7111]	7428	[1871, 5865]
1366	[2524, 2525]	3387	[5297, 5298]	5408	[7112, 7113]	7429	[7975, 7923]
1367	[2526, 195]	3388	[900, 5299]	5409	[7114, 7115]	7430	[7854, 2459]
1368	[2109, 2527]	3389	[3117, 5300]	5410	[4117, 7116]	7431	[5958, 6378]
1369	[2528, 2529]	3390	[1905, 2953]	5411	[7117, 7101]	7432	[6680, 6677]
1370	[2457, 2530]	3391	[5301, 5302]	5412	[4375, 1553]	7433	[6136, 3008]
1371	[2531, 2532]	3392	[1914, 5303]	5413	[4091, 7118]	7434	[8023, 2968]
1372	[2533, 1761]	3393	[5304, 5305]	5414	[7119, 7120]	7435	[2205, 5673]
1373	[2520, 2534]	3394	[5306, 5307]	5415	[4353, 7121]	7436	[5066, 3115]
1374	[560, 2535]	3395	[5308, 5309]	5416	[3258, 1116]	7437	[7837, 5795]
1375	[2536, 2537]	3396	[5006, 5310]	5417	[4620, 7122]	7438	[7839, 2657]
1376	[2538, 2318]	3397	[5311, 5312]	5418	[950, 6813]	7439	[6011, 6302]
1377	[2539, 2540]	3398	[5313, 5314]	5419	[7123, 4216]	7440	[8003, 716]
1378	[2541, 2542]	3399	[186, 5315]	5420	[4827, 7124]	7441	[2508, 35]
1379	[2543, 2544]	3400	[5316, 2165]	5421	[6883, 4473]	7442	[7928, 7980]
1380	[2545, 2546]	3401	[490, 3099]	5422	[7125, 7126]	7443	[6414, 2569]
1381	[2547, 2548]	3402	[2341, 3123]	5423	[7127, 7109]	7444	[8025, 6178]
1382	[2549, 2550]	3403	[5129, 5317]	5424	[7128, 7129]	7445	[5029, 2043]
1383	[2551, 2552]	3404	[5318, 5319]	5425	[7099, 4569]	7446	[7885, 6588]
1384	[2553, 2554]	3405	[5320, 2603]	5426	[7130, 4571]	7447	[6059, 5256]
1385	[2555, 590]	3406	[5321, 5322]	5427	[6723, 7131]	7448	[6619, 7951]
1386	[2483, 1998]	3407	[5323, 592]	5428	[3759, 1212]	7449	[5849, 8026]
1387	[2556, 2557]	3408	[5324, 5325]	5429	[1167, 4354]	7450	[230, 6382]
1388	[2558, 2559]	3409	[5326, 5327]	5430	[345, 4701]	7451	[8027, 7871]

1389	[2560, 1856]	3410	[5328, 5329]	5431	[6731, 7132]	7452	[5040, 6404]
1390	[2561, 2562]	3411	[4963, 5330]	5432	[7133, 3137]	7453	[2669, 6285]
1391	[2563, 2564]	3412	[5331, 2797]	5433	[4185, 7054]	7454	[8028, 6415]
1392	[2565, 2566]	3413	[5332, 5333]	5434	[7134, 4607]	7455	[6683, 8029]
1393	[2567, 145]	3414	[2888, 2702]	5435	[7135, 7023]	7456	[5137, 7820]
1394	[1948, 2568]	3415	[3009, 5334]	5436	[351, 7024]	7457	[5471, 8027]
1395	[2569, 2570]	3416	[5267, 5335]	5437	[3240, 7127]	7458	[5178, 2580]
1396	[2432, 2571]	3417	[5336, 5337]	5438	[7136, 3237]	7459	[6512, 2979]
1397	[2572, 2573]	3418	[5338, 5339]	5439	[4939, 7137]	7460	[5337, 2642]
1398	[2574, 2575]	3419	[5340, 5341]	5440	[7138, 7139]	7461	[6508, 5679]
1399	[2576, 2577]	3420	[5342, 2867]	5441	[3149, 4372]	7462	[5894, 2435]
1400	[2578, 2579]	3421	[5343, 5344]	5442	[7002, 6767]	7463	[2648, 1996]
1401	[2580, 740]	3422	[5345, 5346]	5443	[4787, 4875]	7464	[5252, 7931]
1402	[2581, 1872]	3423	[5347, 5348]	5444	[7140, 4862]	7465	[1913, 6171]
1403	[2582, 2583]	3424	[1782, 5141]	5445	[989, 7141]	7466	[224, 8030]
1404	[2584, 2585]	3425	[1789, 5349]	5446	[3415, 113]	7467	[5094, 8031]
1405	[2586, 2463]	3426	[5350, 5351]	5447	[1642, 4929]	7468	[7898, 6456]
1406	[2587, 2588]	3427	[5352, 5353]	5448	[3499, 4208]	7469	[2049, 808]
1407	[2589, 2590]	3428	[5354, 5355]	5449	[7142, 7143]	7470	[8032, 6662]
1408	[2251, 2591]	3429	[2327, 5356]	5450	[1608, 7144]	7471	[6387, 8033]
1409	[2592, 2593]	3430	[5357, 5358]	5451	[3497, 1443]	7472	[8026, 6031]
1410	[2594, 2595]	3431	[5359, 5360]	5452	[1217, 7145]	7473	[5960, 8032]
1411	[2596, 2597]	3432	[510, 5361]	5453	[7146, 7147]	7474	[5529, 6517]
1412	[2259, 2598]	3433	[5362, 2313]	5454	[1690, 7148]	7475	[527, 5375]
1413	[2599, 2600]	3434	[2766, 5363]	5455	[7149, 977]	7476	[2027, 7994]
1414	[2601, 2602]	3435	[5364, 5222]	5456	[7150, 7151]	7477	[5099, 608]
1415	[2603, 2604]	3436	[5365, 5231]	5457	[7152, 7153]	7478	[2764, 5612]
1416	[2605, 2606]	3437	[1896, 5366]	5458	[4747, 7075]	7479	[2393, 2739]
1417	[681, 2607]	3438	[5367, 5368]	5459	[3452, 6964]	7480	[6061, 6051]
1418	[2608, 2609]	3439	[5369, 813]	5460	[3190, 1005]	7481	[7946, 8020]
1419	[2610, 850]	3440	[3063, 5370]	5461	[3197, 7154]	7482	[7956, 6451]
1420	[1815, 2611]	3441	[5371, 2102]	5462	[7155, 7156]	7483	[7949, 2805]
1421	[786, 2612]	3442	[10, 2154]	5463	[7157, 7158]	7484	[8034, 7963]
1422	[2613, 2614]	3443	[5372, 5373]	5464	[77, 7159]	7485	[6504, 5970]
1423	[2615, 2616]	3444	[529, 5374]	5465	[1132, 1343]	7486	[2294, 738]
1424	[2617, 2618]	3445	[5375, 5376]	5466	[3555, 7160]	7487	[5789, 5768]
1425	[2178, 2619]	3446	[1834, 5120]	5467	[1470, 7161]	7488	[6159, 6190]
1426	[49, 2620]	3447	[2114, 2469]	5468	[3875, 7162]	7489	[7824, 793]
1427	[2621, 485]	3448	[5377, 5378]	5469	[7163, 7164]	7490	[566, 8035]
1428	[895, 2622]	3449	[5379, 5380]	5470	[7165, 7166]	7491	[8012, 5756]
1429	[2623, 2624]	3450	[5381, 5382]	5471	[4071, 7167]	7492	[6195, 6158]
1430	[2625, 2626]	3451	[5383, 5384]	5472	[7168, 7169]	7493	[2904, 6221]
1431	[751, 2627]	3452	[5385, 5386]	5473	[7170, 1609]	7494	[2068, 1900]
1432	[2628, 2629]	3453	[5170, 5387]	5474	[7171, 7172]	7495	[2903, 7901]

1433	[2630, 2631]	3454	[5388, 5379]	5475	[6974, 3601]	7496	[7987, 2553]
1434	[2632, 2633]	3455	[2824, 5389]	5476	[7173, 461]	7497	[6060, 6377]
1435	[170, 2634]	3456	[2381, 5076]	5477	[7174, 308]	7498	[2727, 8010]
1436	[2635, 2636]	3457	[5314, 2722]	5478	[466, 4905]	7499	[4997, 6688]
1437	[2637, 2638]	3458	[5263, 5390]	5479	[7175, 4471]	7500	[7888, 5492]
1438	[2639, 2640]	3459	[802, 5391]	5480	[4622, 4249]	7501	[5859, 1831]
1439	[2283, 2641]	3460	[5392, 5393]	5481	[3884, 6705]	7502	[717, 6602]
1440	[2642, 2643]	3461	[5103, 551]	5482	[3944, 4688]	7503	[913, 7961]
1441	[2644, 584]	3462	[5394, 5395]	5483	[4049, 16]	7504	[7833, 7962]
1442	[2645, 2646]	3463	[5395, 5396]	5484	[1501, 7176]	7505	[2314, 7761]
1443	[2647, 2648]	3464	[5397, 5398]	5485	[1674, 4189]	7506	[209, 1917]
1444	[2649, 2650]	3465	[5216, 5089]	5486	[7177, 76]	7507	[8002, 5459]
1445	[2651, 2652]	3466	[2490, 5399]	5487	[7178, 7179]	7508	[6609, 8036]
1446	[2653, 2654]	3467	[5400, 622]	5488	[1008, 7180]	7509	[8029, 5942]
1447	[2655, 2656]	3468	[5183, 2276]	5489	[1357, 27]	7510	[7845, 827]
1448	[2657, 2658]	3469	[5401, 5402]	5490	[7181, 3334]	7511	[8037, 2829]
1449	[2659, 2261]	3470	[5403, 5404]	5491	[4547, 253]	7512	[7934, 5180]
1450	[771, 1784]	3471	[2053, 1929]	5492	[7182, 7183]	7513	[8038, 2976]
1451	[2660, 2661]	3472	[5405, 5406]	5493	[274, 6921]	7514	[7993, 165]
1452	[2662, 2380]	3473	[5407, 5408]	5494	[3217, 935]	7515	[5413, 6215]
1453	[556, 2663]	3474	[5409, 5410]	5495	[4393, 7184]	7516	[5965, 8011]
1454	[2664, 705]	3475	[2310, 5411]	5496	[4283, 7185]	7517	[8039, 2372]
1455	[853, 2665]	3476	[5412, 1898]	5497	[4721, 4227]	7518	[8040, 6540]
1456	[2666, 2667]	3477	[2103, 5413]	5498	[3879, 937]	7519	[2600, 8041]
1457	[2668, 2669]	3478	[5414, 5415]	5499	[7186, 1258]	7520	[633, 6262]
1458	[2670, 2671]	3479	[5416, 5173]	5500	[7187, 117]	7521	[6649, 8042]
1459	[2672, 2673]	3480	[2814, 5417]	5501	[7188, 4626]	7522	[7965, 5078]
1460	[2674, 2675]	3481	[5214, 2757]	5502	[7189, 4421]	7523	[59, 5803]
1461	[2676, 2677]	3482	[5418, 2889]	5503	[7190, 1712]	7524	[46, 7806]
1462	[2678, 2679]	3483	[5419, 2471]	5504	[4712, 4344]	7525	[5045, 8004]
1463	[2680, 2681]	3484	[5334, 4970]	5505	[3785, 1625]	7526	[152, 6515]
1464	[2682, 701]	3485	[3026, 3121]	5506	[3761, 7191]	7527	[494, 5515]
1465	[2207, 2683]	3486	[5420, 2456]	5507	[1702, 4728]	7528	[1911, 7991]
1466	[2684, 2685]	3487	[5421, 2680]	5508	[3252, 7192]	7529	[3040, 766]
1467	[2392, 2686]	3488	[5422, 2726]	5509	[7193, 1432]	7530	[6528, 6417]
1468	[2505, 2687]	3489	[1963, 39]	5510	[4073, 7194]	7531	[5925, 8013]
1469	[2688, 2689]	3490	[5423, 5424]	5511	[4418, 4351]	7532	[6129, 5903]
1470	[2690, 2691]	3491	[5425, 5426]	5512	[3234, 1398]	7533	[7841, 7924]
1471	[2692, 2693]	3492	[5427, 882]	5513	[7195, 6902]	7534	[2874, 6488]
1472	[2694, 2117]	3493	[5428, 1847]	5514	[24, 7196]	7535	[2583, 6004]
1473	[2695, 2696]	3494	[5429, 5430]	5515	[1254, 7197]	7536	[6496, 5769]
1474	[2697, 2087]	3495	[5224, 5431]	5516	[4901, 4563]	7537	[6460, 6144]
1475	[2698, 2699]	3496	[3090, 5338]	5517	[7198, 3498]	7538	[6446, 7983]
1476	[2700, 2701]	3497	[5196, 2649]	5518	[7199, 3375]	7539	[7943, 5888]

1477	[2702, 2703]	3498	[5432, 1806]	5519	[3553, 3466]	7540	[2762, 7815]
1478	[2704, 688]	3499	[5433, 5434]	5520	[4521, 4467]	7541	[6306, 1989]
1479	[2705, 2413]	3500	[5435, 5436]	5521	[7200, 3576]	7542	[6277, 1991]
1480	[818, 2706]	3501	[5437, 5438]	5522	[7201, 3322]	7543	[8043, 5872]
1481	[2510, 2707]	3502	[5439, 626]	5523	[4136, 7202]	7544	[2730, 7997]
1482	[2708, 2709]	3503	[5440, 703]	5524	[1746, 4826]	7545	[6201, 6462]
1483	[2142, 2710]	3504	[5441, 3042]	5525	[4077, 3134]	7546	[2003, 5616]
1484	[2711, 662]	3505	[5442, 5418]	5526	[4637, 7203]	7547	[6208, 6212]
1485	[2712, 2713]	3506	[2808, 5443]	5527	[3541, 7011]	7548	[3035, 6577]
1486	[2714, 11]	3507	[5444, 5445]	5528	[7204, 7205]	7549	[7944, 5367]
1487	[164, 2715]	3508	[5446, 5447]	5529	[7206, 7207]	7550	[6673, 6054]
1488	[2716, 2717]	3509	[5123, 5448]	5530	[4924, 6892]	7551	[6222, 1790]
1489	[2718, 2719]	3510	[2626, 5449]	5531	[1014, 1641]	7552	[619, 6082]
1490	[2720, 2721]	3511	[1840, 616]	5532	[7208, 7100]	7553	[178, 5017]
1491	[2722, 2723]	3512	[1986, 1821]	5533	[7209, 7047]	7554	[8044, 5416]
1492	[2724, 2725]	3513	[5450, 5451]	5534	[6942, 1000]	7555	[1894, 6573]
1493	[2726, 2727]	3514	[2848, 205]	5535	[7210, 4819]	7556	[1853, 6445]
1494	[2728, 2729]	3515	[5452, 2543]	5536	[4215, 3329]	7557	[2962, 690]
1495	[1775, 2730]	3516	[2516, 860]	5537	[1591, 1410]	7558	[5685, 5264]
1496	[2731, 2732]	3517	[5453, 5454]	5538	[7211, 7212]	7559	[5112, 5048]
1497	[2733, 2519]	3518	[5455, 5456]	5539	[248, 7213]	7560	[7990, 5171]
1498	[2734, 2735]	3519	[5457, 5458]	5540	[3924, 6764]	7561	[7779, 2948]
1499	[2736, 2737]	3520	[2439, 2700]	5541	[7214, 4095]	7562	[6340, 5710]
1500	[2738, 718]	3521	[5459, 5460]	5542	[993, 7215]	7563	[2224, 5623]
1501	[2739, 2740]	3522	[5461, 5352]	5543	[4684, 4234]	7564	[8021, 6161]
1502	[2741, 2444]	3523	[5462, 5463]	5544	[7216, 6860]	7565	[6321, 6643]
1503	[2742, 2743]	3524	[5464, 5465]	5545	[6866, 4229]	7566	[3114, 5928]
1504	[2744, 2745]	3525	[5466, 5467]	5546	[3421, 7217]	7567	[6482, 7936]
1505	[2746, 2747]	3526	[5468, 5469]	5547	[7218, 7219]	7568	[2325, 8045]
1506	[2748, 2749]	3527	[5470, 5471]	5548	[3791, 119]	7569	[6452, 6650]
1507	[2750, 43]	3528	[5472, 5473]	5549	[4192, 4032]	7570	[7910, 6616]
1508	[2751, 2752]	3529	[5474, 5475]	5550	[4291, 4086]	7571	[7809, 6305]
1509	[2060, 2558]	3530	[5476, 5477]	5551	[7160, 7220]	7572	[7883, 6436]
1510	[2709, 2753]	3531	[587, 1966]	5552	[7221, 7222]	7573	[5974, 7932]
1511	[847, 161]	3532	[1907, 1895]	5553	[7223, 6951]	7574	[8046, 5973]
1512	[2754, 865]	3533	[5478, 5479]	5554	[7224, 467]	7575	[885, 7827]
1513	[2755, 2756]	3534	[5480, 5481]	5555	[1679, 6796]	7576	[8042, 7884]
1514	[2757, 2758]	3535	[5482, 5483]	5556	[3959, 7225]	7577	[2590, 5836]
1515	[2759, 1888]	3536	[2771, 2145]	5557	[7226, 3776]	7578	[5349, 7895]
1516	[2760, 503]	3537	[5484, 5485]	5558	[7227, 4864]	7579	[8047, 2348]
1517	[2761, 2762]	3538	[5486, 221]	5559	[7228, 1455]	7580	[5451, 750]
1518	[2763, 2764]	3539	[5355, 5487]	5560	[7229, 4510]	7581	[8048, 6656]
1519	[2765, 2766]	3540	[5488, 1949]	5561	[7230, 7231]	7582	[2124, 8017]
1520	[2767, 654]	3541	[2070, 5489]	5562	[7232, 3177]	7583	[5300, 5491]

1521	[2768, 2769]	3542	[5490, 2265]	5563	[7233, 7234]	7584	[5971, 1774]
1522	[2770, 2771]	3543	[5491, 127]	5564	[4087, 1150]	7585	[1962, 7952]
1523	[2575, 2772]	3544	[5492, 524]	5565	[1385, 1750]	7586	[7947, 5776]
1524	[821, 2773]	3545	[909, 5493]	5566	[1165, 7235]	7587	[6629, 7850]
1525	[2774, 2775]	3546	[3118, 5464]	5567	[7027, 7093]	7588	[6483, 2366]
1526	[2776, 2777]	3547	[5494, 5495]	5568	[7236, 3919]	7589	[7860, 6655]
1527	[2778, 2779]	3548	[5496, 5497]	5569	[7237, 4784]	7590	[6069, 6392]
1528	[2780, 2781]	3549	[5498, 481]	5570	[1200, 7238]	7591	[8019, 5126]
1529	[2710, 2782]	3550	[5499, 2792]	5571	[7239, 3305]	7592	[6639, 6032]
1530	[2783, 2784]	3551	[5500, 5501]	5572	[7126, 7240]	7593	[2686, 7855]
1531	[2785, 2786]	3552	[5502, 5503]	5573	[7241, 962]	7594	[6206, 831]
1532	[2782, 1884]	3553	[5504, 5505]	5574	[298, 7242]	7595	[8049, 2136]
1533	[2787, 803]	3554	[5506, 5507]	5575	[282, 7243]	7596	[6659, 7927]
1534	[2788, 2789]	3555	[5508, 5509]	5576	[7203, 7244]	7597	[2796, 5003]
1535	[2111, 863]	3556	[5510, 5260]	5577	[4853, 3556]	7598	[484, 6419]
1536	[2790, 2791]	3557	[2636, 5511]	5578	[7245, 6944]	7599	[2098, 2172]
1537	[2792, 2793]	3558	[5374, 540]	5579	[6976, 4899]	7600	[2823, 6531]
1538	[2794, 2795]	3559	[2498, 714]	5580	[7246, 7247]	7601	[1780, 5614]
1539	[2537, 2796]	3560	[5512, 5513]	5581	[6840, 4925]	7602	[1836, 6373]
1540	[2797, 2798]	3561	[5514, 489]	5582	[7248, 3230]	7603	[6561, 5677]
1541	[2799, 2800]	3562	[5515, 5516]	5583	[6986, 6859]	7604	[5834, 8040]
1542	[2801, 2802]	3563	[5517, 1843]	5584	[1602, 7249]	7605	[8050, 41]
1543	[2803, 2804]	3564	[5023, 2972]	5585	[4058, 7250]	7606	[5555, 5046]
1544	[2805, 2806]	3565	[5518, 5519]	5586	[1560, 7063]	7607	[5448, 7971]
1545	[2807, 2808]	3566	[5520, 5521]	5587	[7251, 477]	7608	[1764, 8038]
1546	[2809, 2810]	3567	[5522, 5518]	5588	[4339, 297]	7609	[7867, 3116]
1547	[2656, 2317]	3568	[5523, 5524]	5589	[7252, 1576]	7610	[8041, 8044]
1548	[2811, 2812]	3569	[5525, 2533]	5590	[1459, 7253]	7611	[7904, 6599]
1549	[2813, 2814]	3570	[5526, 5527]	5591	[7254, 3513]	7612	[7878, 5712]
1550	[2815, 561]	3571	[5528, 5529]	5592	[425, 7255]	7613	[6151, 7808]
1551	[2816, 2817]	3572	[5530, 5531]	5593	[7256, 7257]	7614	[4990, 7758]
1552	[2818, 2819]	3573	[2153, 5532]	5594	[932, 4638]	7615	[2420, 2872]
1553	[61, 2465]	3574	[5533, 183]	5595	[7258, 4808]	7616	[7813, 6018]
1554	[2820, 2821]	3575	[5213, 5534]	5596	[7259, 4797]	7617	[6405, 8034]
1555	[1791, 2822]	3576	[5535, 5536]	5597	[7260, 7261]	7618	[134, 6670]
1556	[2255, 2823]	3577	[5537, 5538]	5598	[7262, 4386]	7619	[6149, 1937]
1557	[814, 2824]	3578	[5539, 5540]	5599	[7263, 3956]	7620	[7792, 2022]
1558	[2825, 2826]	3579	[2743, 2493]	5600	[3606, 7264]	7621	[2447, 8039]
1559	[2827, 2828]	3580	[1867, 5343]	5601	[3566, 7265]	7622	[7760, 5031]
1560	[2829, 2830]	3581	[5254, 5541]	5602	[7266, 3624]	7623	[627, 6266]
1561	[2831, 2832]	3582	[2019, 5542]	5603	[7267, 7030]	7624	[2305, 8051]
1562	[2833, 2834]	3583	[5543, 5544]	5604	[4496, 1135]	7625	[2307, 4956]
1563	[2835, 2836]	3584	[5545, 5546]	5605	[7268, 4110]	7626	[7754, 6671]
1564	[124, 2837]	3585	[2201, 5547]	5606	[7071, 7269]	7627	[3072, 2790]

1565	[132, 2838]	3586	[5047, 5548]	5607	[7270, 7271]	7628	[2868, 2880]
1566	[2839, 2840]	3587	[2602, 2809]	5608	[7272, 7273]	7629	[7785, 2748]
1567	[2841, 2842]	3588	[2436, 3010]	5609	[7274, 3712]	7630	[5767, 2405]
1568	[2843, 2844]	3589	[2086, 5080]	5610	[7275, 3921]	7631	[6494, 5268]
1569	[2845, 2846]	3590	[5549, 5550]	5611	[7276, 4493]	7632	[6254, 2267]
1570	[2847, 2848]	3591	[5551, 5552]	5612	[4742, 7134]	7633	[6300, 7954]
1571	[2849, 2850]	3592	[5553, 5364]	5613	[4524, 7102]	7634	[2293, 5556]
1572	[2851, 2852]	3593	[5554, 5555]	5614	[7277, 1236]	7635	[2055, 7907]
1573	[2853, 2854]	3594	[5556, 5557]	5615	[3165, 1289]	7636	[6596, 8052]
1574	[2855, 2856]	3595	[5558, 5559]	5616	[3686, 7278]	7637	[6265, 7776]
1575	[2857, 2858]	3596	[5560, 5561]	5617	[3998, 1308]	7638	[5142, 487]
1576	[2859, 2163]	3597	[5562, 1788]	5618	[6772, 6998]	7639	[7791, 5506]
1577	[2860, 2861]	3598	[5563, 5564]	5619	[7279, 7280]	7640	[2170, 5028]
1578	[605, 2862]	3599	[5565, 5566]	5620	[7104, 7281]	7641	[6335, 2079]
1579	[2863, 2864]	3600	[1798, 2674]	5621	[4347, 336]	7642	[2277, 5500]
1580	[2865, 2866]	3601	[5341, 2299]	5622	[7282, 3930]	7643	[5880, 2835]
1581	[2867, 722]	3602	[5567, 1781]	5623	[3856, 1270]	7644	[2955, 6516]
1582	[683, 2868]	3603	[725, 5568]	5624	[4140, 4182]	7645	[7925, 6644]
1583	[2869, 2870]	3604	[5569, 2174]	5625	[7121, 7283]	7646	[6135, 8048]
1584	[2135, 2871]	3605	[5570, 5571]	5626	[3459, 4415]	7647	[2430, 5907]
1585	[2872, 684]	3606	[3078, 5572]	5627	[7284, 6718]	7648	[6661, 6468]
1586	[2873, 2874]	3607	[5007, 5412]	5628	[7285, 7286]	7649	[6440, 5927]
1587	[2858, 2875]	3608	[5573, 1886]	5629	[3792, 7287]	7650	[6601, 5805]
1588	[2876, 2877]	3609	[5574, 5575]	5630	[7288, 4665]	7651	[5203, 8049]
1589	[671, 2878]	3610	[5576, 5273]	5631	[3430, 7228]	7652	[2837, 6182]
1590	[2879, 764]	3611	[5546, 5577]	5632	[7289, 7290]	7653	[5874, 6372]
1591	[2880, 2881]	3612	[1995, 2897]	5633	[1209, 7291]	7654	[5454, 6465]
1592	[2882, 912]	3613	[2203, 5100]	5634	[3786, 7292]	7655	[6433, 7900]
1593	[2883, 914]	3614	[5151, 3085]	5635	[4397, 7182]	7656	[7938, 752]
1594	[2884, 730]	3615	[174, 2421]	5636	[7191, 4348]	7657	[5947, 7974]
1595	[2885, 2886]	3616	[5578, 2933]	5637	[3723, 7293]	7658	[6463, 6437]
1596	[2887, 2888]	3617	[574, 5579]	5638	[1529, 247]	7659	[6029, 5939]
1597	[2889, 2890]	3618	[2585, 5580]	5639	[7029, 7294]	7660	[6252, 758]
1598	[2891, 2892]	3619	[5096, 5581]	5640	[7295, 981]	7661	[5097, 2724]
1599	[2893, 2894]	3620	[5319, 5582]	5641	[4821, 6946]	7662	[5443, 3061]
1600	[2895, 2896]	3621	[5583, 2799]	5642	[7296, 7297]	7663	[2291, 8018]
1601	[2897, 2898]	3622	[2967, 2387]	5643	[20, 3793]	7664	[5172, 6506]
1602	[2899, 2900]	3623	[5584, 5585]	5644	[3788, 7298]	7665	[6213, 6402]
1603	[2468, 2901]	3624	[492, 5586]	5645	[327, 7034]	7666	[6338, 1946]
1604	[2902, 2903]	3625	[5587, 5588]	5646	[325, 7165]	7667	[6503, 5286]
1605	[651, 2904]	3626	[2828, 5589]	5647	[6732, 1551]	7668	[6016, 2942]
1606	[2795, 2905]	3627	[5590, 5591]	5648	[4605, 3802]	7669	[7926, 2031]
1607	[2906, 2907]	3628	[5592, 5593]	5649	[7077, 1451]	7670	[7995, 7958]
1608	[2908, 2909]	3629	[5594, 1763]	5650	[6952, 7299]	7671	[8053, 5643]

1609	[2910, 2911]	3630	[5360, 5595]	5651	[421, 4544]	7672	[8024, 6157]
1610	[2122, 2912]	3631	[5596, 5597]	5652	[7300, 86]	7673	[6647, 2152]
1611	[2913, 565]	3632	[5598, 5599]	5653	[7273, 7301]	7674	[7781, 5427]
1612	[2914, 628]	3633	[2062, 5600]	5654	[3640, 1137]	7675	[8009, 6575]
1613	[629, 544]	3634	[5601, 2384]	5655	[7302, 7303]	7676	[926, 1993]
1614	[2915, 2916]	3635	[2749, 5602]	5656	[3688, 7304]	7677	[196, 6317]
1615	[2300, 2917]	3636	[3124, 5603]	5657	[7305, 3858]	7678	[2319, 6636]
1616	[2918, 2417]	3637	[5604, 5605]	5658	[7306, 6898]	7679	[637, 5148]
1617	[2118, 2919]	3638	[5368, 5606]	5659	[7184, 7307]	7680	[6466, 6434]
1618	[2072, 2920]	3639	[5607, 5608]	5660	[7308, 3409]	7681	[8008, 8037]
1619	[2921, 2922]	3640	[5609, 2128]	5661	[7309, 6967]	7682	[6154, 7804]
1620	[2923, 2440]	3641	[5259, 5610]	5662	[7080, 7310]	7683	[7996, 6388]
1621	[794, 2924]	3642	[1822, 5611]	5663	[7311, 6754]	7684	[5984, 8050]
1622	[695, 2925]	3643	[5612, 5613]	5664	[7312, 1345]	7685	[7957, 7998]
1623	[2926, 2927]	3644	[5614, 5615]	5665	[3586, 7274]	7686	[5460, 2788]
1624	[2928, 2929]	3645	[5616, 2645]	5666	[6744, 4511]	7687	[228, 5440]
1625	[2930, 2931]	3646	[5617, 5618]	5667	[6876, 7313]	7688	[7955, 56]
1626	[516, 2932]	3647	[5619, 5620]	5668	[7280, 3731]	7689	[5265, 7886]
1627	[2933, 2934]	3648	[2772, 5621]	5669	[3514, 4942]	7690	[7985, 598]
1628	[2935, 2936]	3649	[5622, 660]	5670	[7301, 7314]	7691	[8035, 8043]
1629	[2937, 2938]	3650	[2984, 530]	5671	[306, 3159]	7692	[8033, 1912]
1630	[762, 2939]	3651	[2810, 652]	5672	[4731, 1224]	7693	[8052, 7858]
1631	[2940, 2941]	3652	[5623, 656]	5673	[1415, 7239]	7694	[6476, 5392]
1632	[207, 2157]	3653	[5624, 2741]	5674	[7315, 7316]	7695	[7803, 3109]
1633	[2942, 2943]	3654	[2577, 5625]	5675	[7317, 4245]	7696	[5481, 5276]
1634	[2944, 2945]	3655	[5626, 754]	5676	[7318, 1534]	7697	[5650, 5165]
1635	[2946, 2947]	3656	[5627, 5628]	5677	[7319, 7320]	7698	[5489, 6470]
1636	[2948, 2906]	3657	[5629, 5397]	5678	[4148, 7312]	7699	[2629, 5790]
1637	[2949, 2950]	3658	[5630, 5316]	5679	[7321, 7322]	7700	[8001, 6107]
1638	[2951, 2952]	3659	[5631, 5601]	5680	[7323, 1295]	7701	[2740, 676]
1639	[2953, 2954]	3660	[5632, 5633]	5681	[7324, 7325]	7702	[2428, 2376]
1640	[2180, 2955]	3661	[5361, 2731]	5682	[1685, 3918]	7703	[7818, 7902]
1641	[2956, 2407]	3662	[2922, 2966]	5683	[6852, 7279]	7704	[7778, 5654]
1642	[2957, 2958]	3663	[2564, 856]	5684	[7326, 6888]	7705	[2973, 8015]
1643	[2959, 2960]	3664	[5634, 5635]	5685	[3638, 1174]	7706	[6230, 2718]
1644	[691, 2961]	3665	[2166, 5636]	5686	[7327, 84]	7707	[5806, 8046]
1645	[2403, 2962]	3666	[2871, 5637]	5687	[4840, 3681]	7708	[8031, 7942]
1646	[2963, 2964]	3667	[5638, 5420]	5688	[7328, 3338]	7709	[5842, 8000]
1647	[2965, 2254]	3668	[5639, 5640]	5689	[6797, 6955]	7710	[3020, 6530]
1648	[2966, 2967]	3669	[2266, 5365]	5690	[3826, 7329]	7711	[7911, 6623]
1649	[2968, 581]	3670	[5641, 2058]	5691	[7219, 7252]	7712	[7970, 13]
1650	[2969, 2970]	3671	[5642, 5270]	5692	[7244, 6855]	7713	[7857, 8014]
1651	[2804, 2971]	3672	[2557, 612]	5693	[4889, 1477]	7714	[8030, 7893]
1652	[2972, 2973]	3673	[5643, 2181]	5694	[7330, 7284]	7715	[136, 5976]

1653	[2974, 2975]	3674	[5030, 5644]	5695	[7331, 4545]	7716	[3088, 7989]
1654	[2976, 2977]	3675	[5184, 135]	5696	[3327, 7188]	7717	[5411, 536]
1655	[1793, 2978]	3676	[166, 5645]	5697	[6887, 3626]	7718	[832, 6698]
1656	[2979, 2980]	3677	[2715, 5646]	5698	[7332, 7210]	7719	[3084, 5875]
1657	[2981, 2982]	3678	[4981, 5647]	5699	[3765, 4263]	7720	[5353, 2400]
1658	[2983, 2984]	3679	[2173, 3021]	5700	[7333, 1036]	7721	[5579, 7786]
1659	[2985, 2986]	3680	[5648, 2187]	5701	[4476, 7334]	7722	[2358, 791]
1660	[2912, 2987]	3681	[5649, 5650]	5702	[3844, 7335]	7723	[508, 2995]
1661	[2494, 2354]	3682	[5605, 509]	5703	[3335, 7336]	7724	[8054, 6381]
1662	[1850, 2988]	3683	[5651, 5652]	5704	[7293, 7337]	7725	[8051, 6546]
1663	[2989, 2990]	3684	[2579, 5653]	5705	[3860, 7338]	7726	[7988, 7922]
1664	[2991, 1812]	3685	[1920, 1772]	5706	[7339, 3463]	7727	[7966, 5332]
1665	[2992, 2033]	3686	[5004, 2448]	5707	[7340, 3750]	7728	[4978, 6441]
1666	[2993, 2994]	3687	[5654, 5655]	5708	[7341, 1360]	7729	[7992, 5422]
1667	[2995, 2996]	3688	[5656, 5657]	5709	[7257, 7268]	7730	[6438, 7794]
1668	[2532, 2997]	3689	[5658, 5659]	5710	[7342, 7125]	7731	[6290, 1910]
1669	[2998, 2999]	3690	[5660, 5661]	5711	[7343, 1536]	7732	[2775, 2268]
1670	[930, 3000]	3691	[5662, 5663]	5712	[4876, 4399]	7733	[7756, 2601]
1671	[3001, 3002]	3692	[5664, 5665]	5713	[7231, 7344]	7734	[2525, 7909]
1672	[3003, 2944]	3693	[5666, 699]	5714	[7345, 4435]	7735	[5307, 6634]
1673	[3004, 3005]	3694	[5633, 5667]	5715	[7346, 3943]	7736	[713, 6299]
1674	[3006, 3007]	3695	[5620, 5668]	5716	[1615, 7347]	7737	[8036, 8047]
1675	[3008, 3009]	3696	[5669, 5670]	5717	[4912, 1285]	7738	[2269, 6435]
1676	[3010, 3011]	3697	[5035, 5671]	5718	[7348, 7349]	7739	[6539, 7869]
1677	[3012, 3013]	3698	[5036, 5672]	5719	[3384, 7350]	7740	[7796, 4962]
1678	[3014, 3015]	3699	[5673, 5570]	5720	[3535, 1187]	7741	[6621, 7787]
1679	[2699, 3016]	3700	[5674, 5675]	5721	[7283, 7351]	7742	[5559, 7817]
1680	[3017, 3018]	3701	[1865, 5676]	5722	[3381, 7262]	7743	[7816, 5816]
1681	[3019, 3020]	3702	[5677, 5678]	5723	[1056, 1324]	7744	[6691, 2352]
1682	[3021, 3022]	3703	[3033, 5159]	5724	[1567, 6851]	7745	[5591, 7840]
1683	[3023, 3024]	3704	[5679, 5680]	5725	[4573, 4329]	7746	[6275, 2536]
1684	[3025, 3026]	3705	[5681, 5682]	5726	[7322, 7352]	7747	[721, 3060]
1685	[3027, 3028]	3706	[5683, 5229]	5727	[6802, 7353]	7748	[7979, 6186]
1686	[2155, 3029]	3707	[2257, 2230]	5728	[7354, 988]	7749	[2927, 8022]
1687	[3030, 3031]	3708	[5684, 5685]	5729	[3749, 7355]	7750	[520, 5879]
1688	[3032, 3033]	3709	[5686, 5362]	5730	[7356, 7070]	7751	[6620, 6554]
1689	[3034, 3035]	3710	[2424, 5687]	5731	[7091, 3164]	7752	[8055, 7639]
1690	[1873, 3036]	3711	[3107, 5688]	5732	[4603, 7339]	7753	[3172, 4266]
1691	[3037, 3038]	3712	[5548, 5689]	5733	[7286, 7357]	7754	[7500, 7718]
1692	[3039, 3040]	3713	[5690, 5691]	5734	[7358, 7359]	7755	[28, 406]
1693	[3041, 2853]	3714	[2713, 2584]	5735	[1179, 3699]	7756	[6968, 7658]
1694	[3042, 2596]	3715	[5692, 5693]	5736	[4284, 7360]	7757	[3976, 7363]
1695	[1830, 3043]	3716	[2960, 3034]	5737	[3504, 1693]	7758	[6803, 7644]
1696	[3044, 3045]	3717	[5694, 5695]	5738	[7361, 7362]	7759	[8056, 1330]

1697	[3046, 48]	3718	[1969, 5696]	5739	[7363, 4281]	7760	[7043, 3224]
1698	[3047, 2957]	3719	[5697, 5698]	5740	[7364, 7365]	7761	[8057, 932]
1699	[3048, 3049]	3720	[5699, 5700]	5741	[4381, 4763]	7762	[7552, 6743]
1700	[3050, 3051]	3721	[5701, 5702]	5742	[4265, 7107]	7763	[7350, 6768]
1701	[3052, 3053]	3722	[5703, 5704]	5743	[3677, 7136]	7764	[7040, 8058]
1702	[3054, 2270]	3723	[5705, 5706]	5744	[7366, 4242]	7765	[7649, 3297]
1703	[3055, 129]	3724	[2905, 2887]	5745	[7367, 7348]	7766	[1651, 7174]
1704	[2954, 2765]	3725	[2646, 5707]	5746	[3462, 1460]	7767	[7705, 1730]
1705	[3056, 2664]	3726	[2127, 1810]	5747	[7368, 7369]	7768	[6820, 6823]
1706	[138, 3057]	3727	[5708, 5709]	5748	[7370, 7371]	7769	[3203, 3395]
1707	[3058, 3059]	3728	[5710, 5711]	5749	[361, 7193]	7770	[6975, 4305]
1708	[3060, 2910]	3729	[5712, 5713]	5750	[7372, 7289]	7771	[7338, 7501]
1709	[3061, 3062]	3730	[3002, 5714]	5751	[4334, 1100]	7772	[1461, 7686]
1710	[498, 3063]	3731	[5715, 2419]	5752	[4845, 7373]	7773	[7421, 7425]
1711	[3064, 3065]	3732	[5695, 5716]	5753	[3304, 7374]	7774	[4160, 8059]
1712	[3066, 2845]	3733	[1842, 571]	5754	[7375, 1336]	7775	[7569, 8060]
1713	[685, 3067]	3734	[5717, 2379]	5755	[972, 7175]	7776	[4509, 6885]
1714	[2353, 3068]	3735	[240, 5718]	5756	[7376, 7377]	7777	[7633, 4492]
1715	[3069, 3070]	3736	[5719, 5720]	5757	[7378, 4779]	7778	[7708, 6771]
1716	[3071, 3072]	3737	[5721, 5722]	5758	[7269, 7379]	7779	[7365, 7177]
1717	[3073, 3074]	3738	[5723, 2991]	5759	[395, 7380]	7780	[7629, 4739]
1718	[3075, 3076]	3739	[5154, 2374]	5760	[4440, 7381]	7781	[4203, 1671]
1719	[3077, 3078]	3740	[2679, 5724]	5761	[4584, 7012]	7782	[7748, 7741]
1720	[2139, 3079]	3741	[5725, 5726]	5762	[7382, 7345]	7783	[3185, 7052]
1721	[1760, 2320]	3742	[5727, 5728]	5763	[1731, 7069]	7784	[1239, 8061]
1722	[3080, 3081]	3743	[2094, 1890]	5764	[3518, 4411]	7785	[7672, 3413]
1723	[3082, 1970]	3744	[5729, 2125]	5765	[7036, 3363]	7786	[1113, 6786]
1724	[3083, 3084]	3745	[5417, 5533]	5766	[3199, 6962]	7787	[8062, 7146]
1725	[3085, 3086]	3746	[5730, 563]	5767	[7383, 3318]	7788	[4482, 7300]
1726	[3087, 3088]	3747	[2355, 5626]	5768	[7384, 7385]	7789	[7213, 78]
1727	[2518, 3089]	3748	[5731, 726]	5769	[7386, 6979]	7790	[4933, 7530]
1728	[812, 3090]	3749	[5732, 5733]	5770	[4197, 3326]	7791	[391, 7749]
1729	[1901, 3091]	3750	[2289, 5734]	5771	[3615, 7387]	7792	[8063, 7428]
1730	[3092, 3093]	3751	[5735, 2489]	5772	[7388, 7389]	7793	[4180, 3260]
1731	[3094, 610]	3752	[2752, 2364]	5773	[4127, 7390]	7794	[7405, 3427]
1732	[3095, 3096]	3753	[5736, 5737]	5774	[4520, 3187]	7795	[1636, 4824]
1733	[3097, 3098]	3754	[5134, 5738]	5775	[4416, 3729]	7796	[8064, 4260]
1734	[3099, 3100]	3755	[715, 5739]	5776	[7391, 4062]	7797	[7611, 4720]
1735	[3101, 640]	3756	[5740, 5741]	5777	[7392, 4163]	7798	[7431, 1328]
1736	[3102, 2091]	3757	[3029, 2054]	5778	[7393, 7394]	7799	[7571, 7676]
1737	[3103, 179]	3758	[667, 5742]	5779	[7122, 1067]	7800	[7719, 4314]
1738	[3104, 2613]	3759	[5743, 5744]	5780	[6, 4310]	7801	[6735, 8057]
1739	[3105, 3106]	3760	[5745, 2761]	5781	[7395, 4181]	7802	[3630, 7634]
1740	[36, 3107]	3761	[5728, 848]	5782	[1593, 469]	7803	[7591, 3280]

1741	[2571, 212]	3762	[5746, 5747]	5783	[4931, 7396]	7804	[6931, 1561]
1742	[3108, 670]	3763	[5748, 5749]	5784	[7397, 4644]	7805	[3867, 6815]
1743	[3109, 1854]	3764	[5487, 2445]	5785	[4922, 1464]	7806	[7529, 7555]
1744	[3110, 197]	3765	[2789, 5750]	5786	[3204, 4694]	7807	[4075, 1204]
1745	[3111, 3112]	3766	[5751, 5752]	5787	[7111, 7398]	7808	[4629, 7130]
1746	[2105, 3113]	3767	[5753, 5754]	5788	[7113, 4672]	7809	[3763, 4530]
1747	[2001, 3114]	3768	[2082, 5502]	5789	[3331, 7025]	7810	[7682, 390]
1748	[3115, 2394]	3769	[1945, 5755]	5790	[7399, 1112]	7811	[8065, 7654]
1749	[3116, 3117]	3770	[5756, 5757]	5791	[4409, 7400]	7812	[8066, 6953]
1750	[868, 3118]	3771	[5084, 5758]	5792	[1696, 4441]	7813	[8067, 7055]
1751	[3119, 854]	3772	[1950, 600]	5793	[7344, 7138]	7814	[7702, 4881]
1752	[2822, 3120]	3773	[5759, 5760]	5794	[4818, 442]	7815	[4134, 7413]
1753	[3121, 3122]	3774	[1892, 917]	5795	[4869, 4051]	7816	[4562, 7397]
1754	[3123, 3124]	3775	[5761, 5284]	5796	[7401, 3390]	7817	[7648, 8068]
1755	[911, 3125]	3776	[5762, 2427]	5797	[1495, 1042]	7818	[1111, 3371]
1756	[3126, 888]	3777	[5389, 858]	5798	[7336, 7402]	7819	[7622, 7375]
1757	[3127, 3128]	3778	[5763, 5764]	5799	[7337, 3810]	7820	[7400, 6775]
1758	[3129, 273]	3779	[5765, 4951]	5800	[7242, 295]	7821	[6872, 3909]
1759	[3130, 3131]	3780	[5766, 5767]	5801	[1273, 3542]	7822	[7307, 3850]
1760	[3132, 3133]	3781	[5768, 5304]	5802	[7403, 4362]	7823	[1095, 7546]
1761	[3134, 3135]	3782	[5769, 5181]	5803	[7404, 4775]	7824	[3657, 4659]
1762	[3136, 1633]	3783	[5770, 5751]	5804	[4304, 975]	7825	[8069, 7722]
1763	[3137, 3138]	3784	[5771, 5772]	5805	[309, 7405]	7826	[6810, 4272]
1764	[3139, 3140]	3785	[5773, 5686]	5806	[441, 6977]	7827	[3530, 1032]
1765	[3141, 3142]	3786	[5774, 5775]	5807	[7406, 7407]	7828	[3528, 8066]
1766	[3143, 3144]	3787	[5776, 5777]	5808	[7408, 7045]	7829	[7005, 475]
1767	[3145, 1214]	3788	[5778, 5779]	5809	[7409, 7410]	7830	[7551, 3734]
1768	[365, 3146]	3789	[5780, 3046]	5810	[7396, 7171]	7831	[7645, 7382]
1769	[3147, 1601]	3790	[5781, 2442]	5811	[6874, 6845]	7832	[4678, 8070]
1770	[3148, 3149]	3791	[5782, 237]	5812	[7013, 4676]	7833	[7664, 7597]
1771	[3150, 3151]	3792	[5783, 5784]	5813	[7320, 4735]	7834	[7656, 7258]
1772	[3152, 3153]	3793	[5149, 775]	5814	[6993, 7411]	7835	[3516, 7729]
1773	[1401, 1637]	3794	[2475, 5785]	5815	[1389, 7412]	7836	[7700, 320]
1774	[3154, 1492]	3795	[5786, 5168]	5816	[7413, 6838]	7837	[1012, 7401]
1775	[3155, 3156]	3796	[5787, 5788]	5817	[6886, 7414]	7838	[941, 4444]
1776	[3157, 3158]	3797	[1885, 5789]	5818	[7415, 4523]	7839	[4317, 6920]
1777	[3159, 3160]	3798	[5790, 5791]	5819	[4052, 3904]	7840	[7253, 4112]
1778	[1227, 3161]	3799	[5068, 5331]	5820	[7416, 4522]	7841	[3441, 7481]
1779	[3162, 3163]	3800	[657, 644]	5821	[3594, 4254]	7842	[1515, 4892]
1780	[3164, 3165]	3801	[2622, 5792]	5822	[6822, 7223]	7843	[7159, 4364]
1781	[3166, 3167]	3802	[1817, 2794]	5823	[7417, 7418]	7844	[7602, 3908]
1782	[3168, 3169]	3803	[5793, 5574]	5824	[4464, 7419]	7845	[4941, 4897]
1783	[3170, 1710]	3804	[2999, 5794]	5825	[4427, 1004]	7846	[7371, 4550]
1784	[3171, 3172]	3805	[3000, 231]	5826	[7420, 3569]	7847	[3254, 4552]

1785	[1544, 3173]	3806	[5795, 5796]	5827	[4837, 4568]	7848	[478, 1338]
1786	[3174, 1381]	3807	[5797, 2280]	5828	[7394, 7123]	7849	[7450, 100]
1787	[1188, 3152]	3808	[2034, 710]	5829	[433, 7421]	7850	[6854, 7617]
1788	[3175, 3176]	3809	[3007, 1994]	5830	[4785, 6895]	7851	[7534, 4565]
1789	[3177, 1057]	3810	[5798, 5799]	5831	[7249, 3854]	7852	[4033, 6864]
1790	[3178, 3179]	3811	[2175, 5800]	5832	[3602, 4505]	7853	[7234, 7580]
1791	[3180, 376]	3812	[5801, 2258]	5833	[7325, 3487]	7854	[4597, 4206]
1792	[1128, 1368]	3813	[5802, 2587]	5834	[7422, 7423]	7855	[4108, 4873]
1793	[1045, 3181]	3814	[5803, 2509]	5835	[3907, 6994]	7856	[1333, 4936]
1794	[3182, 3183]	3815	[4948, 2605]	5836	[4365, 6923]	7857	[8060, 1566]
1795	[3184, 3185]	3816	[2544, 2869]	5837	[4124, 4580]	7858	[3902, 6958]
1796	[3186, 1347]	3817	[5804, 2760]	5838	[7424, 6738]	7859	[7304, 7406]
1797	[3187, 3188]	3818	[5805, 5806]	5839	[4945, 4392]	7860	[1365, 1276]
1798	[3189, 3190]	3819	[5807, 5808]	5840	[7425, 7426]	7861	[4470, 7327]
1799	[3191, 3192]	3820	[5809, 5590]	5841	[7217, 7427]	7862	[7238, 7090]
1800	[3193, 3194]	3821	[5810, 2655]	5842	[7428, 7429]	7863	[7701, 4288]
1801	[3195, 1419]	3822	[156, 5811]	5843	[3412, 3770]	7864	[3355, 3398]
1802	[3196, 3197]	3823	[711, 5812]	5844	[7430, 7431]	7865	[7747, 283]
1803	[3198, 3199]	3824	[5813, 2928]	5845	[7432, 7433]	7866	[7456, 6817]
1804	[3200, 1373]	3825	[5814, 5815]	5846	[4343, 7009]	7867	[4035, 4938]
1805	[3201, 3202]	3826	[5816, 5817]	5847	[7426, 7434]	7868	[4579, 7732]
1806	[1140, 3203]	3827	[5818, 2728]	5848	[7435, 7436]	7869	[6996, 7518]
1807	[934, 3204]	3828	[5819, 5820]	5849	[3632, 1341]	7870	[3663, 7072]
1808	[73, 3205]	3829	[5637, 5703]	5850	[7437, 7438]	7871	[4585, 3249]
1809	[3206, 465]	3830	[2227, 5821]	5851	[3755, 7439]	7872	[6917, 7376]
1810	[3207, 1040]	3831	[5447, 5822]	5852	[1243, 3253]	7873	[3232, 4256]
1811	[3208, 3209]	3832	[146, 5174]	5853	[6906, 3784]	7874	[7535, 7226]
1812	[3210, 3211]	3833	[5823, 5824]	5854	[1344, 4055]	7875	[6948, 7361]
1813	[3212, 3213]	3834	[5825, 5826]	5855	[6789, 7440]	7876	[1421, 7724]
1814	[3214, 3215]	3835	[5726, 2556]	5856	[7441, 7309]	7877	[7202, 3717]
1815	[3216, 3217]	3836	[5827, 5828]	5857	[7442, 7260]	7878	[4874, 951]
1816	[112, 3218]	3837	[5208, 5829]	5858	[3613, 3241]	7879	[3422, 7135]
1817	[3219, 3220]	3838	[5830, 4949]	5859	[7352, 3243]	7880	[7008, 7744]
1818	[1505, 3221]	3839	[5585, 5831]	5860	[7443, 1563]	7881	[7294, 6703]
1819	[3222, 3223]	3840	[5832, 5297]	5861	[7444, 7066]	7882	[7185, 4318]
1820	[3224, 3225]	3841	[5682, 5833]	5862	[7445, 7356]	7883	[4355, 8071]
1821	[3226, 3227]	3842	[2568, 5834]	5863	[4768, 7446]	7884	[7743, 7703]
1822	[3228, 3229]	3843	[5835, 1808]	5864	[7079, 4487]	7885	[1107, 3540]
1823	[3230, 1539]	3844	[2235, 5468]	5865	[7447, 6960]	7886	[1153, 6737]
1824	[3231, 3232]	3845	[5836, 5401]	5866	[7448, 7449]	7887	[7642, 7638]
1825	[3233, 3234]	3846	[5837, 5838]	5867	[3855, 7450]	7888	[7692, 1015]
1826	[3235, 3236]	3847	[5839, 5840]	5868	[7379, 990]	7889	[7693, 6900]
1827	[3237, 3238]	3848	[5841, 5842]	5869	[3140, 3876]	7890	[8072, 3948]
1828	[3239, 340]	3849	[5843, 5844]	5870	[7451, 6926]	7891	[3772, 4121]

1829	[1277, 3141]	3850	[5845, 5846]	5871	[7452, 6929]	7892	[7601, 3643]
1830	[1265, 3240]	3851	[5847, 5848]	5872	[7453, 3651]	7893	[4267, 446]
1831	[3241, 3242]	3852	[2550, 5849]	5873	[3298, 7259]	7894	[8073, 3193]
1832	[3243, 1133]	3853	[5850, 5851]	5874	[7454, 4687]	7895	[4715, 4599]
1833	[3244, 3245]	3854	[2900, 2106]	5875	[4903, 7455]	7896	[4271, 3148]
1834	[3246, 1521]	3855	[5852, 2625]	5876	[6934, 1700]	7897	[7169, 8074]
1835	[3247, 3248]	3856	[5853, 2361]	5877	[1701, 7456]	7898	[8075, 1195]
1836	[3249, 3250]	3857	[5854, 2357]	5878	[1185, 1465]	7899	[7720, 7673]
1837	[3251, 3252]	3858	[198, 5855]	5879	[1006, 3774]	7900	[7381, 6932]
1838	[3253, 3254]	3859	[5856, 5857]	5880	[1640, 3324]	7901	[4709, 3897]
1839	[3255, 1191]	3860	[5858, 5859]	5881	[7457, 6762]	7902	[8068, 4528]
1840	[3256, 3257]	3861	[5860, 602]	5882	[403, 7282]	7903	[8074, 7241]
1841	[1072, 3258]	3862	[5861, 5860]	5883	[4315, 3150]	7904	[1596, 4151]
1842	[3259, 1572]	3863	[2725, 5862]	5884	[4843, 7306]	7905	[3942, 7482]
1843	[3260, 3261]	3864	[2197, 5863]	5885	[7458, 3388]	7906	[3716, 8063]
1844	[3262, 3263]	3865	[843, 5864]	5886	[7153, 4008]	7907	[3690, 7671]
1845	[3264, 3265]	3866	[5865, 5866]	5887	[7459, 4915]	7908	[3598, 4195]
1846	[3266, 3267]	3867	[5867, 1954]	5888	[1604, 7460]	7909	[1374, 4664]
1847	[3268, 1086]	3868	[5868, 5869]	5889	[7461, 7462]	7910	[7710, 8069]
1848	[3269, 3270]	3869	[5158, 50]	5890	[4693, 7006]	7911	[3933, 7737]
1849	[3271, 3272]	3870	[5870, 5193]	5891	[6850, 4894]	7912	[6878, 7395]
1850	[3273, 3274]	3871	[5871, 5195]	5892	[7463, 7464]	7913	[7556, 4696]
1851	[3275, 3276]	3872	[5872, 5873]	5893	[7465, 4168]	7914	[415, 7073]
1852	[3277, 3278]	3873	[2658, 5874]	5894	[4431, 3502]	7915	[4926, 7364]
1853	[1145, 3279]	3874	[5875, 5876]	5895	[6897, 4132]	7916	[6776, 7740]
1854	[3280, 3262]	3875	[2401, 5877]	5896	[6730, 7416]	7917	[7039, 8076]
1855	[3281, 3282]	3876	[5878, 2712]	5897	[4048, 4770]	7918	[4705, 4378]
1856	[3283, 3284]	3877	[5879, 5880]	5898	[7466, 7467]	7919	[7490, 8077]
1857	[3285, 74]	3878	[5881, 5882]	5899	[7468, 7133]	7920	[4527, 1051]
1858	[3286, 3287]	3879	[5883, 1770]	5900	[6959, 7233]	7921	[7750, 7515]
1859	[3288, 3289]	3880	[693, 2913]	5901	[7469, 3645]	7922	[1221, 7738]
1860	[3290, 3255]	3881	[2264, 2446]	5902	[7470, 4855]	7923	[7074, 7046]
1861	[3291, 344]	3882	[5884, 5498]	5903	[4736, 4656]	7924	[4105, 8078]
1862	[1512, 3292]	3883	[2303, 5885]	5904	[4420, 7471]	7925	[3188, 1426]
1863	[3293, 3294]	3884	[5595, 5886]	5905	[7472, 4878]	7926	[1655, 8065]
1864	[3295, 3296]	3885	[1973, 5234]	5906	[1697, 23]	7927	[7083, 6908]
1865	[3297, 3298]	3886	[5887, 3095]	5907	[6780, 3387]	7928	[7446, 8079]
1866	[3299, 3300]	3887	[5888, 5889]	5908	[118, 7473]	7929	[7183, 6795]
1867	[3301, 3302]	3888	[5890, 2497]	5909	[7179, 1250]	7930	[7247, 1110]
1868	[383, 3303]	3889	[2652, 528]	5910	[1309, 7474]	7931	[7467, 7707]
1869	[3153, 3304]	3890	[5693, 5891]	5911	[7475, 3444]	7932	[4207, 7540]
1870	[3305, 3306]	3891	[5892, 5383]	5912	[7476, 4535]	7933	[4838, 7317]
1871	[3307, 3308]	3892	[172, 2923]	5913	[1435, 7457]	7934	[7539, 4165]
1872	[3309, 3310]	3893	[2375, 5200]	5914	[373, 6843]	7935	[7709, 4820]

1873	[3311, 3312]	3894	[5893, 5894]	5915	[7164, 430]	7936	[6739, 7315]
1874	[256, 3313]	3895	[5895, 5843]	5916	[7477, 7478]	7937	[4045, 3604]
1875	[3314, 3315]	3896	[5896, 5897]	5917	[3796, 3986]	7938	[7651, 6990]
1876	[3316, 3317]	3897	[5898, 5899]	5918	[6856, 17]	7939	[7359, 1518]
1877	[3318, 3319]	3898	[5900, 5901]	5919	[4847, 7358]	7940	[288, 7661]
1878	[3320, 3321]	3899	[5902, 3044]	5920	[7390, 7479]	7941	[4012, 6847]
1879	[3322, 3323]	3900	[5903, 2849]	5921	[4632, 3746]	7942	[6839, 1340]
1880	[3324, 3325]	3901	[5904, 2578]	5922	[4587, 7480]	7943	[3894, 7461]
1881	[3326, 3327]	3902	[5905, 5906]	5923	[435, 1511]	7944	[7727, 1648]
1882	[313, 3328]	3903	[5907, 583]	5924	[7433, 7150]	7945	[7711, 4786]
1883	[3329, 1507]	3904	[621, 2213]	5925	[999, 7086]	7946	[966, 7704]
1884	[3330, 3331]	3905	[5908, 5909]	5926	[4040, 7321]	7947	[7455, 312]
1885	[3332, 3333]	3906	[2952, 5054]	5927	[6826, 3554]	7948	[1058, 7330]
1886	[3334, 3335]	3907	[5431, 5910]	5928	[7481, 4341]	7949	[1235, 7486]
1887	[3336, 3337]	3908	[5911, 5867]	5929	[7482, 7483]	7950	[6814, 1666]
1888	[3338, 3339]	3909	[5912, 2589]	5930	[7484, 7206]	7951	[1376, 3408]
1889	[3340, 1013]	3910	[5913, 5914]	5931	[4595, 7485]	7952	[3378, 271]
1890	[3341, 1502]	3911	[5915, 217]	5932	[7486, 374]	7953	[3584, 3893]
1891	[3342, 1732]	3912	[5916, 5917]	5933	[460, 7487]	7954	[7647, 7581]
1892	[3343, 3344]	3913	[2821, 5918]	5934	[4119, 7488]	7955	[4831, 7097]
1893	[3248, 3345]	3914	[5919, 5920]	5935	[4589, 4762]	7956	[8076, 4011]
1894	[3346, 3347]	3915	[5921, 2]	5936	[7489, 3132]	7957	[4879, 7698]
1895	[3348, 3349]	3916	[4950, 5922]	5937	[4860, 4764]	7958	[1144, 7731]
1896	[3350, 3351]	3917	[5473, 2238]	5938	[304, 4282]	7959	[3972, 7211]
1897	[116, 1125]	3918	[5923, 5924]	5939	[6983, 3654]	7960	[4150, 7208]
1898	[3352, 3353]	3919	[2298, 5925]	5940	[4566, 6867]	7961	[296, 7662]
1899	[3354, 3355]	3920	[5926, 5923]	5941	[3619, 7490]	7962	[8070, 6783]
1900	[3356, 3357]	3921	[3065, 5721]	5942	[3634, 6726]	7963	[7674, 3491]
1901	[3358, 3359]	3922	[5927, 919]	5943	[1076, 7065]	7964	[8080, 3493]
1902	[3360, 3361]	3923	[5928, 1935]	5944	[7491, 7492]	7965	[8077, 8072]
1903	[3362, 1698]	3924	[2683, 698]	5945	[7281, 7493]	7966	[947, 6702]
1904	[3363, 3364]	3925	[2832, 5929]	5946	[7351, 6752]	7967	[1079, 457]
1905	[961, 3365]	3926	[5930, 5528]	5947	[1353, 7494]	7968	[3882, 7582]
1906	[3366, 3367]	3927	[5750, 5931]	5948	[7460, 7495]	7969	[7147, 8062]
1907	[3368, 72]	3928	[2958, 5932]	5949	[7355, 382]	7970	[1510, 8073]
1908	[3369, 3370]	3929	[5933, 742]	5950	[958, 7496]	7971	[6858, 6869]
1909	[3371, 3372]	3930	[5784, 2617]	5951	[3443, 1226]	7972	[4026, 7721]
1910	[3373, 3374]	3931	[2696, 5934]	5952	[3873, 7497]	7973	[3467, 4805]
1911	[3375, 3376]	3932	[5935, 2946]	5953	[7498, 6907]	7974	[8058, 1034]
1912	[3377, 3378]	3933	[5495, 5658]	5954	[1213, 7010]	7975	[6893, 7391]
1913	[3379, 3380]	3934	[5936, 5237]	5955	[7499, 7459]	7976	[8079, 4732]
1914	[1439, 3381]	3935	[5937, 5938]	5956	[6961, 7500]	7977	[7509, 4683]
1915	[3382, 3383]	3936	[5939, 2704]	5957	[122, 949]	7978	[449, 4648]
1916	[3308, 334]	3937	[5940, 5941]	5958	[4084, 1747]	7979	[7212, 7366]

1917	[419, 3384]	3938	[5942, 5631]	5959	[3661, 7088]	7980	[6987, 7683]
1918	[3385, 3386]	3939	[5329, 5943]	5960	[6765, 6713]	7981	[7714, 7392]
1919	[3387, 1251]	3940	[5944, 5945]	5961	[7501, 971]	7982	[4642, 4861]
1920	[3388, 3389]	3941	[5946, 2734]	5962	[6927, 973]	7983	[7691, 7542]
1921	[3390, 1210]	3942	[5295, 5947]	5963	[4773, 7502]	7984	[4920, 1156]
1922	[3391, 1661]	3943	[5948, 5949]	5964	[1717, 7503]	7985	[7314, 7726]
1923	[1109, 3392]	3944	[649, 5950]	5965	[7504, 7484]	7986	[7471, 6981]
1924	[3393, 3394]	3945	[2502, 5786]	5966	[1444, 4221]	7987	[4791, 6830]
1925	[3395, 3231]	3946	[2132, 5320]	5967	[7505, 1019]	7988	[4154, 4628]
1926	[3396, 3397]	3947	[5951, 4996]	5968	[3798, 1428]	7989	[7124, 7042]
1927	[3398, 3399]	3948	[5713, 5095]	5969	[6945, 7103]	7990	[3818, 7713]
1928	[3400, 3401]	3949	[5952, 5953]	5970	[6785, 1406]	7991	[3372, 8064]
1929	[3402, 3403]	3950	[5247, 5954]	5971	[7506, 7507]	7992	[7335, 4277]
1930	[3404, 3405]	3951	[5192, 2539]	5972	[7508, 7409]	7993	[3202, 328]
1931	[3406, 3407]	3952	[5955, 5956]	5973	[4726, 7509]	7994	[7473, 1425]
1932	[3408, 1248]	3953	[2693, 2780]	5974	[7510, 372]	7995	[4512, 1467]
1933	[3409, 3410]	3954	[5957, 5958]	5975	[7250, 7447]	7996	[4627, 7458]
1934	[3411, 3412]	3955	[1916, 147]	5976	[268, 7475]	7997	[8078, 4170]
1935	[3413, 3414]	3956	[5959, 5960]	5977	[7144, 7186]	7998	[4158, 4316]
1936	[3161, 3415]	3957	[5961, 5962]	5978	[7255, 3186]	7999	[3138, 4803]
1937	[3416, 3417]	3958	[2338, 5963]	5979	[7511, 7333]	8000	[4038, 7751]
1938	[3418, 3419]	3959	[5964, 5965]	5980	[7048, 6736]	8001	[7105, 7734]
1939	[3420, 3421]	3960	[5966, 5967]	5981	[7512, 3299]	8002	[8059, 4572]
1940	[3410, 3422]	3961	[881, 2615]	5982	[1097, 1630]	8003	[4725, 285]
1941	[3423, 3424]	3962	[5396, 2807]	5983	[6936, 7513]	8004	[7625, 7489]
1942	[3425, 3426]	3963	[5968, 5969]	5984	[7514, 82]	8005	[7196, 7445]
1943	[3427, 3428]	3964	[5970, 5971]	5985	[7515, 4611]	8006	[1001, 7699]
1944	[3429, 3430]	3965	[2836, 5861]	5986	[1454, 6984]	8007	[1037, 326]
1945	[3431, 3432]	3966	[5972, 5818]	5987	[7516, 7388]	8008	[3710, 4635]
1946	[3433, 1244]	3967	[5973, 2998]	5988	[1707, 7200]	8009	[4744, 4753]
1947	[3434, 1514]	3968	[2190, 5974]	5989	[7215, 305]	8010	[250, 8067]
1948	[3435, 3436]	3969	[5831, 5975]	5990	[4761, 4027]	8011	[7503, 7204]
1949	[272, 1160]	3970	[5764, 2847]	5991	[3890, 7128]	8012	[3711, 4814]
1950	[3437, 3438]	3971	[5976, 5977]	5992	[407, 3760]	8013	[4575, 3814]
1951	[3439, 3219]	3972	[5521, 5978]	5993	[4772, 1646]	8014	[7696, 1234]
1952	[3440, 3441]	3973	[1826, 201]	5994	[4252, 3440]	8015	[7299, 4219]
1953	[3442, 3443]	3974	[5979, 5980]	5995	[7007, 4231]	8016	[6827, 7735]
1954	[3444, 3445]	3975	[5981, 5982]	5996	[3484, 1334]	8017	[7143, 3579]
1955	[3446, 3447]	3976	[1875, 5478]	5997	[4815, 4796]	8018	[8071, 7285]
1956	[3448, 3449]	3977	[5983, 5984]	5998	[4776, 7517]	8019	[6980, 6862]
1957	[75, 3450]	3978	[5985, 2339]	5999	[4909, 1620]	8020	[7531, 4458]
1958	[3451, 3452]	3979	[757, 5986]	6000	[1081, 1691]	8021	[4146, 7081]
1959	[3287, 3453]	3980	[5987, 5771]	6001	[6938, 3434]	8022	[7745, 6896]
1960	[3454, 3448]	3981	[5954, 5988]	6002	[7044, 7020]	8023	[7688, 7687]

1961	[1245, 3455]	3982	[1832, 5989]	6003	[7118, 1473]	8024	[397, 7448]
1962	[341, 3456]	3983	[5990, 5985]	6004	[987, 4308]	8025	[439, 4737]
1963	[3399, 3457]	3984	[5991, 5992]	6005	[7518, 4592]	8026	[3708, 7251]
1964	[3458, 3459]	3985	[5993, 2815]	6006	[4810, 1301]	8027	[1190, 3247]
1965	[3460, 1516]	3986	[5994, 1951]	6007	[4661, 7272]	8028	[7655, 7678]
1966	[3461, 3462]	3987	[1930, 5381]	6008	[7519, 7520]	8029	[6831, 8056]
1967	[3463, 3464]	3988	[2665, 5486]	6009	[4863, 6724]	8030	[7730, 7573]
1968	[3370, 3465]	3989	[2535, 5326]	6010	[6770, 7053]	8031	[8061, 7216]
1969	[3466, 3467]	3990	[5995, 5804]	6011	[7151, 4179]	8032	[3694, 7452]
1970	[3468, 3469]	3991	[5996, 5997]	6012	[7120, 1756]	8033	[7667, 3379]
1971	[3470, 3471]	3992	[5998, 5753]	6013	[3492, 6707]	8034	[7132, 8080]
1972	[3472, 3473]	3993	[5999, 2495]	6014	[6916, 7521]	8035	[1546, 7453]
1973	[3474, 3475]	3994	[182, 5748]	6015	[7522, 7523]	8036	[4895, 4]
1974	[3476, 3477]	3995	[6000, 5139]	6016	[4937, 4674]	8037	[7462, 8075]
1975	[3478, 3479]	3996	[5829, 6001]	6017	[7524, 7525]	8038	[7003, 7201]
1976	[1550, 3480]	3997	[1909, 6002]	6018	[4194, 7526]	8039	[4807, 7680]
1977	[3481, 3482]	3998	[3049, 5937]	6019	[7527, 7528]	8040	[4823, 4825]
1978	[3483, 3484]	3999	[2975, 2711]	6020	[6988, 1203]	8041	[3453, 1106]
1979	[3485, 3486]	4000	[1922, 225]	6021	[1205, 6914]	8042	[357, 4085]
1980	[3487, 1462]	4001	[2399, 1927]	6022	[6911, 7529]	8043	[7669, 4654]
1981	[3488, 3489]	4002	[2492, 143]	6023	[7530, 7531]	8044	[4379, 6935]
1982	[3490, 969]	4003	[4977, 5896]	6024	[7414, 7532]	8045	[4007, 4647]
1983	[3491, 3492]	4004	[6003, 2876]	6025	[4738, 6829]	8046	[7689, 4538]
1984	[3493, 1055]	4005	[6004, 6005]	6026	[4236, 4729]	8047	[1370, 4042]
1985	[3494, 3495]	4006	[5147, 6006]	6027	[7533, 4746]	8048	[7586, 7173]
1986	[1149, 3228]	4007	[6007, 5607]	6028	[3985, 1632]	8049	[6940, 3726]
1987	[3496, 3497]	4008	[6008, 6009]	6029	[1066, 3525]	8050	[7513, 4760]
1988	[3498, 3499]	4009	[6010, 6011]	6030	[985, 7533]	8051	[3978, 7684]
1989	[3500, 3501]	4010	[6012, 5069]	6031	[7240, 3878]	8052	[7076, 4777]
1990	[3502, 1412]	4011	[6013, 3001]	6032	[7357, 3952]	8053	[1171, 3945]
1991	[3503, 3504]	4012	[5785, 3014]	6033	[1718, 7534]	8054	[4297, 3789]
1992	[3505, 3343]	4013	[5072, 6014]	6034	[3718, 7535]	8055	[1, 2506]
1993	[3506, 3507]	4014	[5700, 2511]	6035	[6792, 3756]	8056	[5848, 6399]
1994	[3508, 3509]	4015	[6015, 6016]	6036	[7536, 1220]	8057	[6550, 6174]
1995	[3510, 3511]	4016	[6017, 5060]	6037	[7145, 7537]	8058	[5277, 7999]
1996	[1331, 3512]	4017	[2216, 5005]	6038	[7538, 4910]	8059	[148, 6469]
1997	[3513, 3514]	4018	[6018, 6019]	6039	[3767, 7539]	8060	[8045, 2841]
1998	[3515, 3516]	4019	[6020, 5244]	6040	[7540, 7541]	8061	[2302, 7959]
1999	[3517, 3518]	4020	[5088, 6021]	6041	[7542, 7543]	8062	[2473, 7940]
2000	[1286, 3519]	4021	[6022, 6023]	6042	[7544, 3494]	8063	[2654, 929]
2001	[1198, 3520]	4022	[5138, 6024]	6043	[7545, 7415]	8064	[677, 8053]
2002	[3521, 3522]	4023	[2892, 6025]	6044	[4137, 7499]	8065	[2977, 2484]
2003	[3523, 3524]	4024	[6026, 6027]	6045	[7546, 7469]	8066	[2633, 5102]
2004	[3525, 3526]	4025	[6028, 6029]	6046	[7014, 948]	8067	[6244, 7917]

2005	[3527, 3528]	4026	[6030, 5683]	6047	[3573, 4258]	8068	[6657, 2698]
2006	[3529, 3530]	4027	[6031, 2236]	6048	[7547, 111]	8069	[6604, 8028]
2007	[3531, 1568]	4028	[5272, 2194]	6049	[4202, 7545]	8070	[7762, 6651]
2008	[3532, 3226]	4029	[6032, 5762]	6050	[7487, 3780]	8071	[5866, 5619]
2009	[3533, 1303]	4030	[5493, 6033]	6051	[3242, 7181]	8072	[6276, 5952]
2010	[3534, 3535]	4031	[6034, 6035]	6052	[6884, 6757]	8073	[7799, 7844]
2011	[3536, 3537]	4032	[6036, 2089]	6053	[1271, 7443]	8074	[7960, 5227]
2012	[3538, 3539]	4033	[6037, 6038]	6054	[1721, 7548]	8075	[5924, 8054]
2013	[3540, 3541]	4034	[792, 6039]	6055	[7549, 7114]	8076	[5606, 8025]
2014	[3542, 3543]	4035	[6040, 6041]	6056	[7550, 3458]	8077	[5950, 8005]
2015	[3544, 3545]	4036	[6042, 5014]	6057	[6861, 7437]	8078	[7973, 2059]
2016	[3546, 3547]	4037	[4955, 6043]	6058	[4228, 7551]	8079	[7825, 6589]
2017	[3548, 3549]	4038	[6044, 6045]	6059	[315, 7552]	8080	[5833, 1979]
2018	[3550, 3358]	4039	[5285, 2827]	6060	[3922, 7553]		
2019	[991, 106]	4040	[5287, 6046]	6061	[7064, 4741]		
2020	[3551, 1053]	4041	[879, 5823]	6062	[1225, 3461]		

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	1347	1	2694	0	4041	1	5388	0	6735	0
1	0	1348	1	2695	0	4042	0	5389	1	6736	1
2	0	1349	0	2696	1	4043	0	5390	0	6737	0
3	0	1350	0	2697	1	4044	0	5391	0	6738	1
4	1	1351	0	2698	1	4045	0	5392	1	6739	0
5	0	1352	1	2699	0	4046	1	5393	1	6740	0
6	1	1353	1	2700	0	4047	0	5394	1	6741	0
7	0	1354	1	2701	1	4048	0	5395	0	6742	1
8	0	1355	1	2702	0	4049	1	5396	0	6743	0
9	1	1356	0	2703	0	4050	0	5397	1	6744	0
10	0	1357	1	2704	0	4051	1	5398	0	6745	0
11	0	1358	1	2705	1	4052	0	5399	1	6746	0
12	1	1359	1	2706	1	4053	1	5400	1	6747	0
13	1	1360	1	2707	0	4054	1	5401	1	6748	0
14	1	1361	0	2708	1	4055	0	5402	0	6749	0
15	0	1362	0	2709	1	4056	0	5403	1	6750	0
16	0	1363	0	2710	1	4057	1	5404	1	6751	0
17	0	1364	0	2711	0	4058	0	5405	0	6752	1
18	0	1365	1	2712	1	4059	0	5406	0	6753	1
19	1	1366	1	2713	1	4060	1	5407	0	6754	0
20	0	1367	0	2714	1	4061	1	5408	0	6755	1
21	0	1368	1	2715	1	4062	1	5409	0	6756	1
22	1	1369	0	2716	0	4063	1	5410	0	6757	1
23	0	1370	0	2717	1	4064	1	5411	0	6758	0
24	1	1371	1	2718	0	4065	0	5412	1	6759	1

25	1	1372	1	2719	0	4066	0	5413	1	6760	1
26	1	1373	0	2720	1	4067	0	5414	0	6761	0
27	1	1374	0	2721	1	4068	1	5415	1	6762	0
28	1	1375	1	2722	1	4069	0	5416	1	6763	1
29	1	1376	0	2723	0	4070	1	5417	1	6764	0
30	0	1377	1	2724	0	4071	1	5418	0	6765	1
31	0	1378	0	2725	1	4072	0	5419	0	6766	0
32	0	1379	1	2726	0	4073	0	5420	1	6767	1
33	0	1380	1	2727	1	4074	0	5421	0	6768	1
34	0	1381	1	2728	1	4075	0	5422	0	6769	0
35	0	1382	1	2729	0	4076	0	5423	1	6770	1
36	1	1383	1	2730	0	4077	0	5424	0	6771	0
37	0	1384	0	2731	1	4078	1	5425	0	6772	1
38	1	1385	0	2732	0	4079	1	5426	0	6773	1
39	1	1386	1	2733	0	4080	1	5427	1	6774	0
40	0	1387	0	2734	1	4081	0	5428	1	6775	0
41	0	1388	1	2735	1	4082	0	5429	1	6776	1
42	1	1389	1	2736	1	4083	0	5430	1	6777	0
43	0	1390	0	2737	1	4084	1	5431	0	6778	1
44	1	1391	0	2738	0	4085	0	5432	1	6779	1
45	1	1392	0	2739	0	4086	1	5433	0	6780	1
46	1	1393	1	2740	0	4087	1	5434	1	6781	1
47	1	1394	1	2741	1	4088	0	5435	0	6782	0
48	1	1395	1	2742	1	4089	1	5436	0	6783	0
49	1	1396	1	2743	0	4090	0	5437	0	6784	1
50	1	1397	0	2744	0	4091	1	5438	1	6785	0
51	1	1398	1	2745	0	4092	1	5439	0	6786	0
52	1	1399	0	2746	0	4093	0	5440	0	6787	0
53	0	1400	0	2747	0	4094	1	5441	0	6788	0
54	1	1401	1	2748	0	4095	1	5442	1	6789	1
55	1	1402	0	2749	0	4096	0	5443	0	6790	0
56	1	1403	1	2750	0	4097	1	5444	1	6791	0
57	1	1404	1	2751	0	4098	0	5445	1	6792	1
58	1	1405	0	2752	1	4099	1	5446	0	6793	1
59	1	1406	0	2753	1	4100	0	5447	1	6794	0
60	0	1407	0	2754	1	4101	0	5448	0	6795	1
61	1	1408	1	2755	1	4102	0	5449	1	6796	0
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331	1	1678	1	3025	0	4372	0	5719	0	7066	1
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333	0	1680	1	3027	0	4374	1	5721	0	7068	1
334	1	1681	0	3028	1	4375	1	5722	1	7069	1
335	0	1682	1	3029	1	4376	0	5723	0	7070	1
336	0	1683	0	3030	0	4377	1	5724	1	7071	1
337	1	1684	0	3031	1	4378	0	5725	0	7072	0
338	0	1685	0	3032	0	4379	1	5726	1	7073	1
339	1	1686	1	3033	1	4380	1	5727	1	7074	1
340	0	1687	0	3034	0	4381	0	5728	1	7075	0
341	0	1688	0	3035	1	4382	0	5729	1	7076	0
342	0	1689	0	3036	1	4383	0	5730	1	7077	1
343	1	1690	1	3037	1	4384	0	5731	0	7078	0
344	0	1691	1	3038	1	4385	0	5732	1	7079	1
345	1	1692	1	3039	1	4386	0	5733	0	7080	0
346	1	1693	1	3040	0	4387	1	5734	0	7081	0
347	1	1694	0	3041	1	4388	1	5735	1	7082	1
348	0	1695	0	3042	0	4389	1	5736	1	7083	0
349	1	1696	0	3043	0	4390	0	5737	0	7084	1
350	1	1697	0	3044	0	4391	1	5738	0	7085	1
351	0	1698	1	3045	1	4392	0	5739	1	7086	1
352	0	1699	0	3046	0	4393	0	5740	0	7087	1
353	1	1700	1	3047	1	4394	1	5741	0	7088	0
354	1	1701	0	3048	0	4395	1	5742	0	7089	0
355	0	1702	0	3049	1	4396	0	5743	1	7090	0
356	1	1703	1	3050	1	4397	0	5744	0	7091	0
357	1	1704	1	3051	0	4398	1	5745	1	7092	0
358	0	1705	0	3052	0	4399	0	5746	1	7093	0
359	1	1706	0	3053	1	4400	0	5747	1	7094	0
360	0	1707	1	3054	0	4401	0	5748	1	7095	1
361	1	1708	1	3055	1	4402	1	5749	1	7096	0
362	1	1709	0	3056	0	4403	1	5750	0	7097	1
363	1	1710	0	3057	0	4404	1	5751	1	7098	1
364	1	1711	1	3058	1	4405	0	5752	1	7099	0
365	1	1712	0	3059	0	4406	1	5753	1	7100	0
366	0	1713	0	3060	1	4407	1	5754	1	7101	0
367	1	1714	1	3061	0	4408	0	5755	1	7102	0
368	1	1715	0	3062	0	4409	0	5756	0	7103	1
369	0	1716	1	3063	0	4410	1	5757	1	7104	1
370	1	1717	0	3064	1	4411	1	5758	0	7105	1
371	0	1718	1	3065	1	4412	1	5759	0	7106	0
372	0	1719	1	3066	0	4413	0	5760	0	7107	1
373	1	1720	1	3067	1	4414	0	5761	0	7108	1
374	0	1721	0	3068	0	4415	0	5762	1	7109	0
375	0	1722	1	3069	0	4416	0	5763	0	7110	0
376	0	1723	0	3070	1	4417	0	5764	0	7111	0

377	1	1724	0	3071	1	4418	0	5765	1	7112	0
378	1	1725	0	3072	0	4419	0	5766	1	7113	0
379	0	1726	1	3073	0	4420	1	5767	1	7114	0
380	0	1727	1	3074	0	4421	1	5768	1	7115	0
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383	0	1730	0	3077	1	4424	0	5771	0	7118	1
384	0	1731	0	3078	0	4425	0	5772	1	7119	0
385	1	1732	0	3079	1	4426	1	5773	1	7120	1
386	1	1733	0	3080	1	4427	1	5774	1	7121	1
387	1	1734	0	3081	1	4428	0	5775	0	7122	1
388	1	1735	0	3082	0	4429	0	5776	1	7123	0
389	0	1736	1	3083	0	4430	0	5777	1	7124	0
390	1	1737	1	3084	0	4431	0	5778	1	7125	0
391	1	1738	1	3085	0	4432	0	5779	1	7126	1
392	1	1739	1	3086	1	4433	0	5780	1	7127	1
393	0	1740	1	3087	1	4434	1	5781	0	7128	0
394	1	1741	1	3088	0	4435	1	5782	0	7129	1
395	0	1742	1	3089	0	4436	1	5783	1	7130	0
396	0	1743	0	3090	1	4437	1	5784	0	7131	1
397	1	1744	0	3091	1	4438	1	5785	1	7132	0
398	0	1745	1	3092	0	4439	1	5786	0	7133	1
399	0	1746	1	3093	1	4440	0	5787	0	7134	1
400	0	1747	1	3094	0	4441	0	5788	0	7135	0
401	0	1748	0	3095	0	4442	1	5789	0	7136	1
402	1	1749	1	3096	0	4443	1	5790	1	7137	0
403	1	1750	0	3097	0	4444	1	5791	0	7138	0
404	1	1751	1	3098	0	4445	0	5792	0	7139	1
405	1	1752	0	3099	0	4446	0	5793	0	7140	1
406	1	1753	0	3100	0	4447	1	5794	0	7141	1
407	1	1754	1	3101	0	4448	0	5795	1	7142	1
408	1	1755	0	3102	1	4449	1	5796	1	7143	0
409	1	1756	0	3103	1	4450	1	5797	1	7144	1
410	1	1757	0	3104	1	4451	1	5798	1	7145	0
411	0	1758	1	3105	1	4452	1	5799	1	7146	1
412	1	1759	0	3106	1	4453	0	5800	1	7147	1
413	0	1760	0	3107	0	4454	0	5801	1	7148	1
414	1	1761	1	3108	1	4455	0	5802	0	7149	0
415	1	1762	0	3109	0	4456	0	5803	0	7150	1
416	0	1763	1	3110	0	4457	0	5804	0	7151	0
417	1	1764	1	3111	1	4458	0	5805	1	7152	0
418	0	1765	0	3112	0	4459	1	5806	1	7153	0
419	0	1766	0	3113	0	4460	0	5807	1	7154	1
420	0	1767	0	3114	0	4461	0	5808	1	7155	0

421	0	1768	1	3115	0	4462	0	5809	1	7156	1
422	1	1769	1	3116	1	4463	0	5810	0	7157	0
423	0	1770	1	3117	1	4464	0	5811	1	7158	0
424	1	1771	0	3118	0	4465	0	5812	1	7159	0
425	1	1772	0	3119	1	4466	0	5813	0	7160	0
426	1	1773	1	3120	0	4467	1	5814	0	7161	0
427	1	1774	0	3121	0	4468	0	5815	1	7162	1
428	1	1775	1	3122	0	4469	0	5816	1	7163	1
429	1	1776	0	3123	1	4470	0	5817	0	7164	0
430	1	1777	0	3124	0	4471	0	5818	0	7165	0
431	0	1778	0	3125	1	4472	0	5819	0	7166	0
432	1	1779	0	3126	0	4473	1	5820	1	7167	0
433	0	1780	0	3127	0	4474	0	5821	0	7168	1
434	0	1781	1	3128	1	4475	0	5822	1	7169	0
435	0	1782	0	3129	1	4476	0	5823	0	7170	0
436	0	1783	0	3130	0	4477	0	5824	0	7171	1
437	1	1784	0	3131	1	4478	1	5825	1	7172	1
438	1	1785	1	3132	0	4479	0	5826	0	7173	0
439	1	1786	1	3133	1	4480	0	5827	1	7174	1
440	1	1787	1	3134	1	4481	1	5828	0	7175	0
441	1	1788	1	3135	1	4482	1	5829	0	7176	1
442	1	1789	0	3136	0	4483	1	5830	0	7177	1
443	1	1790	1	3137	1	4484	0	5831	1	7178	1
444	0	1791	1	3138	1	4485	1	5832	1	7179	0
445	0	1792	0	3139	1	4486	1	5833	0	7180	1
446	1	1793	1	3140	0	4487	1	5834	1	7181	1
447	0	1794	1	3141	0	4488	0	5835	0	7182	0
448	1	1795	0	3142	1	4489	0	5836	0	7183	0
449	0	1796	0	3143	0	4490	0	5837	1	7184	0
450	0	1797	1	3144	0	4491	1	5838	1	7185	0
451	1	1798	0	3145	0	4492	1	5839	1	7186	1
452	0	1799	0	3146	0	4493	0	5840	0	7187	1
453	0	1800	1	3147	1	4494	1	5841	1	7188	1
454	0	1801	1	3148	1	4495	1	5842	0	7189	0
455	1	1802	0	3149	0	4496	1	5843	1	7190	0
456	1	1803	1	3150	0	4497	0	5844	0	7191	1
457	1	1804	1	3151	1	4498	0	5845	1	7192	1
458	0	1805	1	3152	0	4499	1	5846	0	7193	1
459	1	1806	0	3153	0	4500	1	5847	0	7194	0
460	1	1807	1	3154	0	4501	0	5848	1	7195	1
461	1	1808	0	3155	1	4502	1	5849	1	7196	1
462	0	1809	1	3156	1	4503	0	5850	0	7197	0
463	0	1810	1	3157	0	4504	1	5851	1	7198	0
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465	0	1812	0	3159	0	4506	1	5853	0	7200	0
466	1	1813	1	3160	0	4507	1	5854	0	7201	1
467	1	1814	1	3161	1	4508	0	5855	1	7202	0
468	1	1815	0	3162	0	4509	0	5856	1	7203	0
469	1	1816	0	3163	1	4510	1	5857	0	7204	0
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471	1	1818	0	3165	0	4512	1	5859	0	7206	0
472	0	1819	0	3166	1	4513	1	5860	0	7207	0
473	1	1820	0	3167	1	4514	1	5861	1	7208	0
474	1	1821	1	3168	0	4515	0	5862	1	7209	1
475	0	1822	0	3169	1	4516	1	5863	1	7210	0
476	1	1823	1	3170	0	4517	1	5864	1	7211	1
477	0	1824	1	3171	0	4518	1	5865	1	7212	1
478	1	1825	1	3172	1	4519	0	5866	1	7213	1
479	0	1826	0	3173	1	4520	1	5867	1	7214	1
480	1	1827	0	3174	1	4521	0	5868	1	7215	0
481	0	1828	1	3175	1	4522	1	5869	0	7216	0
482	1	1829	0	3176	0	4523	0	5870	0	7217	1
483	0	1830	0	3177	0	4524	0	5871	0	7218	0
484	0	1831	1	3178	1	4525	1	5872	0	7219	1
485	1	1832	0	3179	0	4526	0	5873	1	7220	1
486	1	1833	0	3180	1	4527	1	5874	0	7221	0
487	0	1834	0	3181	0	4528	1	5875	0	7222	1
488	1	1835	1	3182	1	4529	1	5876	1	7223	0
489	1	1836	0	3183	1	4530	1	5877	0	7224	1
490	1	1837	1	3184	0	4531	1	5878	1	7225	1
491	1	1838	1	3185	1	4532	0	5879	1	7226	0
492	1	1839	0	3186	0	4533	1	5880	0	7227	0
493	1	1840	1	3187	1	4534	1	5881	1	7228	1
494	0	1841	1	3188	0	4535	1	5882	1	7229	0
495	0	1842	1	3189	0	4536	1	5883	0	7230	1
496	0	1843	1	3190	0	4537	0	5884	1	7231	1
497	0	1844	1	3191	0	4538	0	5885	1	7232	0
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499	1	1846	1	3193	1	4540	0	5887	0	7234	1
500	1	1847	0	3194	0	4541	0	5888	0	7235	0
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502	0	1849	1	3196	0	4543	0	5890	0	7237	1
503	1	1850	0	3197	1	4544	0	5891	1	7238	1
504	1	1851	1	3198	1	4545	0	5892	1	7239	0
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507	1	1854	1	3201	1	4548	0	5895	1	7242	1
508	1	1855	1	3202	0	4549	1	5896	1	7243	1

509	0	1856	1	3203	0	4550	1	5897	0	7244	0
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511	0	1858	0	3205	0	4552	1	5899	0	7246	0
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513	0	1860	1	3207	1	4554	1	5901	0	7248	1
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515	1	1862	1	3209	0	4556	0	5903	0	7250	1
516	0	1863	1	3210	0	4557	0	5904	1	7251	1
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520	0	1867	0	3214	1	4561	0	5908	1	7255	1
521	1	1868	0	3215	0	4562	0	5909	0	7256	0
522	1	1869	0	3216	0	4563	0	5910	0	7257	1
523	0	1870	0	3217	1	4564	1	5911	0	7258	1
524	1	1871	0	3218	0	4565	1	5912	0	7259	0
525	0	1872	0	3219	1	4566	0	5913	0	7260	0
526	0	1873	1	3220	1	4567	0	5914	1	7261	0
527	0	1874	1	3221	0	4568	1	5915	0	7262	1
528	0	1875	1	3222	0	4569	1	5916	1	7263	0
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537	0	1884	0	3231	1	4578	1	5925	1	7272	1
538	0	1885	1	3232	1	4579	0	5926	0	7273	0
539	1	1886	0	3233	1	4580	0	5927	1	7274	0
540	0	1887	0	3234	0	4581	1	5928	0	7275	0
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542	0	1889	1	3236	0	4583	1	5930	0	7277	1
543	0	1890	0	3237	0	4584	0	5931	1	7278	0
544	1	1891	0	3238	0	4585	0	5932	0	7279	0
545	0	1892	0	3239	1	4586	0	5933	1	7280	0
546	0	1893	1	3240	0	4587	1	5934	0	7281	1
547	1	1894	0	3241	1	4588	1	5935	0	7282	1
548	0	1895	0	3242	0	4589	0	5936	1	7283	0
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553	1	1900	0	3247	1	4594	0	5941	0	7288	1
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555	0	1902	1	3249	0	4596	1	5943	1	7290	0
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560	0	1907	1	3254	0	4601	1	5948	0	7295	0
561	0	1908	1	3255	0	4602	1	5949	0	7296	0
562	1	1909	1	3256	1	4603	1	5950	1	7297	0
563	1	1910	1	3257	1	4604	0	5951	1	7298	1
564	1	1911	0	3258	1	4605	0	5952	0	7299	0
565	0	1912	0	3259	1	4606	1	5953	1	7300	0
566	1	1913	0	3260	1	4607	0	5954	0	7301	0
567	1	1914	0	3261	0	4608	1	5955	0	7302	0
568	1	1915	1	3262	1	4609	1	5956	1	7303	0
569	0	1916	1	3263	0	4610	1	5957	0	7304	0
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571	1	1918	1	3265	0	4612	1	5959	1	7306	0
572	0	1919	1	3266	1	4613	1	5960	1	7307	0
573	0	1920	1	3267	1	4614	0	5961	0	7308	0
574	0	1921	1	3268	0	4615	1	5962	0	7309	0
575	1	1922	0	3269	0	4616	0	5963	1	7310	0
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577	1	1924	1	3271	1	4618	0	5965	0	7312	1
578	0	1925	1	3272	1	4619	0	5966	1	7313	1
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580	0	1927	0	3274	1	4621	0	5968	1	7315	1
581	0	1928	1	3275	1	4622	1	5969	1	7316	0
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584	0	1931	1	3278	1	4625	0	5972	0	7319	0
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592	0	1939	0	3286	0	4633	0	5980	0	7327	0
593	0	1940	1	3287	1	4634	0	5981	0	7328	0
594	1	1941	0	3288	0	4635	0	5982	1	7329	1
595	1	1942	0	3289	0	4636	1	5983	0	7330	1
596	0	1943	1	3290	1	4637	1	5984	0	7331	1

597	0	1944	1	3291	0	4638	1	5985	1	7332	1
598	0	1945	0	3292	0	4639	0	5986	0	7333	1
599	1	1946	0	3293	1	4640	1	5987	0	7334	0
600	0	1947	1	3294	1	4641	1	5988	1	7335	1
601	0	1948	1	3295	1	4642	1	5989	0	7336	1
602	1	1949	0	3296	0	4643	0	5990	0	7337	1
603	0	1950	1	3297	0	4644	1	5991	1	7338	0
604	1	1951	1	3298	1	4645	0	5992	1	7339	1
605	1	1952	0	3299	1	4646	1	5993	1	7340	0
606	1	1953	0	3300	0	4647	1	5994	0	7341	1
607	0	1954	0	3301	0	4648	0	5995	1	7342	1
608	1	1955	0	3302	1	4649	1	5996	0	7343	1
609	1	1956	0	3303	0	4650	1	5997	0	7344	0
610	1	1957	0	3304	1	4651	1	5998	1	7345	1
611	0	1958	0	3305	0	4652	1	5999	1	7346	1
612	0	1959	1	3306	1	4653	0	6000	0	7347	0
613	1	1960	0	3307	0	4654	1	6001	1	7348	0
614	1	1961	1	3308	1	4655	1	6002	0	7349	1
615	1	1962	0	3309	0	4656	1	6003	1	7350	0
616	0	1963	1	3310	1	4657	1	6004	1	7351	0
617	1	1964	1	3311	1	4658	0	6005	1	7352	0
618	0	1965	1	3312	0	4659	1	6006	1	7353	0
619	0	1966	0	3313	1	4660	1	6007	0	7354	1
620	1	1967	0	3314	1	4661	0	6008	0	7355	0
621	0	1968	0	3315	0	4662	1	6009	1	7356	1
622	0	1969	0	3316	1	4663	1	6010	1	7357	1
623	0	1970	0	3317	0	4664	1	6011	0	7358	0
624	1	1971	1	3318	0	4665	0	6012	1	7359	1
625	0	1972	0	3319	0	4666	0	6013	1	7360	0
626	0	1973	0	3320	1	4667	0	6014	0	7361	0
627	0	1974	1	3321	1	4668	0	6015	1	7362	1
628	0	1975	0	3322	1	4669	0	6016	1	7363	1
629	0	1976	0	3323	1	4670	0	6017	1	7364	0
630	1	1977	1	3324	1	4671	1	6018	1	7365	1
631	0	1978	0	3325	0	4672	0	6019	0	7366	0
632	1	1979	0	3326	1	4673	1	6020	1	7367	1
633	0	1980	0	3327	0	4674	1	6021	0	7368	1
634	0	1981	0	3328	1	4675	0	6022	1	7369	1
635	1	1982	1	3329	0	4676	1	6023	1	7370	1
636	1	1983	0	3330	0	4677	1	6024	1	7371	0
637	0	1984	1	3331	0	4678	0	6025	0	7372	0
638	0	1985	1	3332	1	4679	0	6026	1	7373	1
639	0	1986	0	3333	1	4680	0	6027	1	7374	1
640	0	1987	1	3334	0	4681	0	6028	1	7375	1

641	0	1988	1	3335	0	4682	1	6029	1	7376	0
642	0	1989	0	3336	0	4683	0	6030	1	7377	0
643	1	1990	0	3337	0	4684	0	6031	0	7378	1
644	1	1991	0	3338	1	4685	1	6032	1	7379	1
645	0	1992	1	3339	1	4686	0	6033	1	7380	0
646	1	1993	0	3340	1	4687	1	6034	0	7381	1
647	0	1994	0	3341	0	4688	0	6035	1	7382	1
648	1	1995	1	3342	0	4689	1	6036	0	7383	1
649	0	1996	1	3343	0	4690	0	6037	0	7384	1
650	1	1997	1	3344	0	4691	0	6038	0	7385	1
651	1	1998	0	3345	1	4692	1	6039	1	7386	0
652	1	1999	1	3346	0	4693	0	6040	0	7387	1
653	0	2000	0	3347	0	4694	1	6041	0	7388	1
654	1	2001	1	3348	0	4695	0	6042	0	7389	0
655	0	2002	0	3349	1	4696	1	6043	0	7390	0
656	0	2003	0	3350	1	4697	1	6044	1	7391	1
657	1	2004	0	3351	1	4698	1	6045	0	7392	1
658	1	2005	0	3352	1	4699	1	6046	1	7393	1
659	1	2006	1	3353	0	4700	1	6047	0	7394	0
660	0	2007	0	3354	1	4701	1	6048	1	7395	0
661	0	2008	1	3355	0	4702	0	6049	1	7396	0
662	0	2009	1	3356	0	4703	1	6050	0	7397	0
663	1	2010	1	3357	1	4704	0	6051	0	7398	1
664	1	2011	1	3358	0	4705	1	6052	1	7399	1
665	1	2012	1	3359	1	4706	0	6053	0	7400	0
666	0	2013	0	3360	1	4707	0	6054	0	7401	1
667	0	2014	1	3361	1	4708	0	6055	1	7402	1
668	1	2015	0	3362	1	4709	0	6056	1	7403	0
669	1	2016	0	3363	0	4710	0	6057	0	7404	0
670	0	2017	1	3364	1	4711	0	6058	0	7405	0
671	0	2018	1	3365	1	4712	1	6059	1	7406	1
672	0	2019	1	3366	0	4713	0	6060	1	7407	1
673	0	2020	1	3367	0	4714	1	6061	0	7408	1
674	0	2021	0	3368	1	4715	0	6062	1	7409	1
675	1	2022	1	3369	1	4716	1	6063	0	7410	1
676	1	2023	0	3370	0	4717	1	6064	1	7411	0
677	0	2024	1	3371	1	4718	0	6065	1	7412	1
678	0	2025	1	3372	1	4719	1	6066	1	7413	1
679	1	2026	1	3373	1	4720	0	6067	0	7414	1
680	1	2027	0	3374	1	4721	1	6068	1	7415	0
681	0	2028	1	3375	0	4722	0	6069	0	7416	1
682	1	2029	0	3376	0	4723	1	6070	0	7417	0
683	1	2030	1	3377	0	4724	0	6071	0	7418	1
684	1	2031	1	3378	0	4725	1	6072	0	7419	1

685	0	2032	1	3379	0	4726	1	6073	0	7420	0
686	0	2033	0	3380	0	4727	0	6074	0	7421	1
687	0	2034	1	3381	1	4728	1	6075	0	7422	1
688	1	2035	0	3382	1	4729	1	6076	1	7423	0
689	1	2036	1	3383	0	4730	1	6077	1	7424	1
690	1	2037	1	3384	0	4731	0	6078	0	7425	0
691	0	2038	0	3385	1	4732	1	6079	1	7426	0
692	0	2039	0	3386	0	4733	1	6080	0	7427	1
693	0	2040	1	3387	1	4734	0	6081	0	7428	0
694	0	2041	1	3388	1	4735	1	6082	0	7429	1
695	0	2042	0	3389	1	4736	0	6083	1	7430	0
696	1	2043	1	3390	1	4737	1	6084	1	7431	1
697	1	2044	0	3391	0	4738	0	6085	1	7432	1
698	1	2045	1	3392	0	4739	1	6086	1	7433	0
699	0	2046	0	3393	1	4740	1	6087	0	7434	1
700	1	2047	0	3394	1	4741	1	6088	0	7435	1
701	1	2048	0	3395	1	4742	1	6089	1	7436	1
702	0	2049	0	3396	1	4743	1	6090	0	7437	0
703	1	2050	1	3397	1	4744	1	6091	1	7438	0
704	1	2051	0	3398	0	4745	1	6092	0	7439	0
705	0	2052	1	3399	1	4746	1	6093	1	7440	1
706	0	2053	0	3400	1	4747	1	6094	0	7441	1
707	1	2054	1	3401	1	4748	0	6095	1	7442	0
708	1	2055	0	3402	0	4749	0	6096	1	7443	0
709	1	2056	0	3403	1	4750	1	6097	1	7444	1
710	1	2057	0	3404	0	4751	1	6098	0	7445	1
711	0	2058	1	3405	1	4752	1	6099	1	7446	0
712	1	2059	1	3406	1	4753	1	6100	1	7447	1
713	1	2060	1	3407	1	4754	1	6101	1	7448	1
714	1	2061	0	3408	0	4755	1	6102	0	7449	1
715	1	2062	1	3409	1	4756	1	6103	1	7450	0
716	1	2063	1	3410	1	4757	0	6104	0	7451	0
717	0	2064	0	3411	0	4758	1	6105	0	7452	0
718	1	2065	0	3412	1	4759	0	6106	0	7453	0
719	1	2066	1	3413	0	4760	1	6107	1	7454	0
720	0	2067	1	3414	1	4761	0	6108	1	7455	1
721	0	2068	0	3415	0	4762	1	6109	0	7456	0
722	1	2069	0	3416	1	4763	0	6110	0	7457	1
723	1	2070	1	3417	1	4764	1	6111	1	7458	1
724	1	2071	0	3418	1	4765	0	6112	0	7459	0
725	1	2072	0	3419	0	4766	1	6113	0	7460	0
726	0	2073	0	3420	0	4767	1	6114	1	7461	0
727	0	2074	1	3421	0	4768	1	6115	0	7462	0
728	1	2075	0	3422	1	4769	0	6116	1	7463	1

729	0	2076	1	3423	0	4770	1	6117	1	7464	0
730	0	2077	1	3424	0	4771	1	6118	1	7465	0
731	1	2078	1	3425	0	4772	1	6119	1	7466	1
732	0	2079	0	3426	1	4773	1	6120	1	7467	0
733	1	2080	0	3427	1	4774	1	6121	0	7468	0
734	1	2081	1	3428	1	4775	1	6122	0	7469	0
735	1	2082	0	3429	1	4776	1	6123	0	7470	0
736	0	2083	1	3430	1	4777	0	6124	0	7471	1
737	1	2084	1	3431	0	4778	1	6125	1	7472	1
738	0	2085	0	3432	1	4779	0	6126	1	7473	1
739	1	2086	1	3433	0	4780	0	6127	1	7474	0
740	0	2087	1	3434	1	4781	0	6128	0	7475	0
741	1	2088	1	3435	1	4782	0	6129	0	7476	0
742	1	2089	1	3436	1	4783	0	6130	1	7477	1
743	0	2090	0	3437	1	4784	0	6131	1	7478	1
744	1	2091	0	3438	0	4785	0	6132	1	7479	1
745	0	2092	0	3439	1	4786	0	6133	1	7480	0
746	0	2093	0	3440	0	4787	0	6134	0	7481	0
747	0	2094	1	3441	1	4788	1	6135	0	7482	1
748	0	2095	0	3442	0	4789	0	6136	0	7483	1
749	0	2096	1	3443	1	4790	1	6137	0	7484	0
750	1	2097	1	3444	0	4791	1	6138	1	7485	0
751	1	2098	1	3445	1	4792	1	6139	0	7486	0
752	0	2099	1	3446	0	4793	0	6140	0	7487	0
753	0	2100	0	3447	0	4794	0	6141	0	7488	0
754	0	2101	0	3448	0	4795	1	6142	0	7489	1
755	0	2102	1	3449	1	4796	0	6143	0	7490	1
756	0	2103	1	3450	1	4797	1	6144	1	7491	0
757	1	2104	0	3451	0	4798	1	6145	1	7492	0
758	1	2105	1	3452	0	4799	0	6146	1	7493	0
759	0	2106	0	3453	1	4800	0	6147	0	7494	0
760	0	2107	0	3454	0	4801	1	6148	0	7495	0
761	1	2108	0	3455	0	4802	0	6149	0	7496	1
762	0	2109	1	3456	0	4803	0	6150	1	7497	1
763	1	2110	0	3457	0	4804	0	6151	0	7498	1
764	0	2111	0	3458	1	4805	1	6152	0	7499	0
765	1	2112	0	3459	0	4806	1	6153	0	7500	0
766	1	2113	1	3460	1	4807	1	6154	1	7501	0
767	0	2114	0	3461	0	4808	0	6155	0	7502	0
768	1	2115	1	3462	1	4809	1	6156	0	7503	0
769	0	2116	0	3463	0	4810	1	6157	1	7504	0
770	1	2117	0	3464	1	4811	1	6158	1	7505	0
771	1	2118	0	3465	0	4812	0	6159	0	7506	1
772	0	2119	0	3466	0	4813	0	6160	0	7507	1

773	1	2120	1	3467	1	4814	1	6161	0	7508	0
774	0	2121	0	3468	0	4815	0	6162	0	7509	0
775	0	2122	0	3469	1	4816	1	6163	0	7510	0
776	1	2123	0	3470	1	4817	0	6164	1	7511	0
777	0	2124	1	3471	0	4818	0	6165	0	7512	0
778	1	2125	0	3472	0	4819	0	6166	1	7513	1
779	1	2126	0	3473	0	4820	0	6167	1	7514	0
780	1	2127	0	3474	0	4821	1	6168	0	7515	1
781	0	2128	1	3475	0	4822	0	6169	1	7516	0
782	1	2129	0	3476	1	4823	1	6170	1	7517	1
783	0	2130	0	3477	1	4824	1	6171	0	7518	1
784	0	2131	0	3478	0	4825	1	6172	0	7519	0
785	0	2132	1	3479	1	4826	0	6173	1	7520	0
786	1	2133	1	3480	0	4827	1	6174	1	7521	0
787	0	2134	0	3481	1	4828	0	6175	0	7522	1
788	0	2135	0	3482	0	4829	0	6176	1	7523	1
789	1	2136	1	3483	0	4830	1	6177	1	7524	1
790	1	2137	0	3484	0	4831	1	6178	0	7525	1
791	1	2138	1	3485	0	4832	0	6179	1	7526	0
792	0	2139	1	3486	1	4833	0	6180	0	7527	0
793	1	2140	1	3487	0	4834	1	6181	1	7528	0
794	1	2141	1	3488	0	4835	1	6182	1	7529	0
795	1	2142	0	3489	1	4836	0	6183	1	7530	1
796	1	2143	0	3490	1	4837	1	6184	0	7531	1
797	1	2144	0	3491	0	4838	0	6185	1	7532	0
798	1	2145	1	3492	1	4839	1	6186	1	7533	1
799	1	2146	0	3493	1	4840	1	6187	0	7534	0
800	1	2147	0	3494	1	4841	0	6188	0	7535	1
801	1	2148	1	3495	1	4842	0	6189	0	7536	0
802	0	2149	1	3496	1	4843	1	6190	1	7537	0
803	1	2150	0	3497	0	4844	1	6191	0	7538	0
804	1	2151	1	3498	1	4845	1	6192	1	7539	0
805	0	2152	0	3499	0	4846	1	6193	0	7540	0
806	0	2153	0	3500	0	4847	0	6194	1	7541	1
807	1	2154	0	3501	0	4848	0	6195	0	7542	0
808	1	2155	1	3502	0	4849	1	6196	1	7543	1
809	1	2156	0	3503	0	4850	1	6197	0	7544	0
810	0	2157	1	3504	0	4851	0	6198	0	7545	0
811	1	2158	0	3505	1	4852	1	6199	1	7546	0
812	1	2159	0	3506	0	4853	1	6200	0	7547	1
813	1	2160	0	3507	1	4854	0	6201	0	7548	1
814	1	2161	1	3508	0	4855	1	6202	1	7549	1
815	0	2162	1	3509	0	4856	1	6203	0	7550	1
816	1	2163	1	3510	1	4857	1	6204	0	7551	1

817	0	2164	1	3511	1	4858	1	6205	0	7552	0
818	0	2165	0	3512	0	4859	0	6206	0	7553	0
819	0	2166	0	3513	1	4860	0	6207	1	7554	1
820	0	2167	0	3514	1	4861	1	6208	1	7555	0
821	0	2168	0	3515	0	4862	1	6209	1	7556	1
822	0	2169	1	3516	1	4863	1	6210	0	7557	0
823	1	2170	1	3517	1	4864	0	6211	0	7558	0
824	0	2171	0	3518	0	4865	1	6212	0	7559	0
825	0	2172	1	3519	0	4866	1	6213	1	7560	1
826	0	2173	0	3520	0	4867	1	6214	1	7561	1
827	1	2174	1	3521	0	4868	0	6215	1	7562	0
828	1	2175	0	3522	1	4869	1	6216	1	7563	0
829	1	2176	0	3523	0	4870	1	6217	1	7564	0
830	0	2177	1	3524	0	4871	0	6218	1	7565	0
831	1	2178	1	3525	0	4872	1	6219	0	7566	0
832	1	2179	1	3526	0	4873	0	6220	0	7567	1
833	1	2180	0	3527	0	4874	0	6221	0	7568	0
834	1	2181	0	3528	1	4875	0	6222	1	7569	1
835	0	2182	0	3529	1	4876	1	6223	1	7570	1
836	1	2183	0	3530	0	4877	1	6224	1	7571	1
837	0	2184	0	3531	0	4878	1	6225	1	7572	1
838	1	2185	1	3532	1	4879	0	6226	1	7573	0
839	1	2186	1	3533	1	4880	1	6227	0	7574	0
840	0	2187	0	3534	1	4881	0	6228	1	7575	0
841	1	2188	1	3535	0	4882	0	6229	1	7576	1
842	1	2189	0	3536	1	4883	1	6230	0	7577	1
843	1	2190	1	3537	0	4884	0	6231	1	7578	0
844	0	2191	1	3538	1	4885	0	6232	0	7579	0
845	0	2192	1	3539	0	4886	1	6233	1	7580	0
846	0	2193	1	3540	0	4887	0	6234	0	7581	1
847	0	2194	0	3541	1	4888	0	6235	0	7582	1
848	0	2195	1	3542	1	4889	1	6236	1	7583	1
849	1	2196	0	3543	0	4890	0	6237	1	7584	1
850	0	2197	1	3544	0	4891	0	6238	0	7585	0
851	1	2198	1	3545	0	4892	1	6239	1	7586	1
852	1	2199	0	3546	0	4893	1	6240	1	7587	0
853	1	2200	0	3547	1	4894	1	6241	0	7588	0
854	1	2201	0	3548	1	4895	1	6242	0	7589	1
855	1	2202	0	3549	0	4896	0	6243	0	7590	0
856	1	2203	0	3550	1	4897	1	6244	1	7591	0
857	0	2204	1	3551	1	4898	0	6245	1	7592	1
858	1	2205	1	3552	0	4899	1	6246	1	7593	1
859	1	2206	0	3553	1	4900	1	6247	0	7594	0
860	1	2207	1	3554	1	4901	0	6248	0	7595	0

861	1	2208	1	3555	0	4902	0	6249	1	7596	0
862	1	2209	0	3556	0	4903	0	6250	0	7597	0
863	1	2210	1	3557	0	4904	0	6251	0	7598	0
864	1	2211	0	3558	1	4905	0	6252	1	7599	1
865	0	2212	1	3559	0	4906	1	6253	0	7600	1
866	0	2213	0	3560	0	4907	1	6254	0	7601	0
867	0	2214	1	3561	1	4908	0	6255	1	7602	0
868	0	2215	0	3562	1	4909	1	6256	1	7603	0
869	1	2216	0	3563	0	4910	0	6257	1	7604	1
870	1	2217	0	3564	0	4911	1	6258	0	7605	1
871	0	2218	1	3565	1	4912	0	6259	1	7606	0
872	0	2219	1	3566	0	4913	0	6260	1	7607	0
873	1	2220	1	3567	1	4914	0	6261	1	7608	1
874	0	2221	1	3568	0	4915	0	6262	0	7609	0
875	1	2222	0	3569	0	4916	0	6263	1	7610	1
876	0	2223	0	3570	1	4917	0	6264	0	7611	1
877	1	2224	0	3571	0	4918	0	6265	1	7612	0
878	1	2225	1	3572	0	4919	0	6266	1	7613	0
879	1	2226	0	3573	0	4920	0	6267	0	7614	0
880	0	2227	0	3574	1	4921	1	6268	1	7615	0
881	0	2228	1	3575	0	4922	1	6269	1	7616	1
882	0	2229	0	3576	0	4923	1	6270	0	7617	0
883	1	2230	1	3577	0	4924	0	6271	0	7618	1
884	0	2231	1	3578	1	4925	1	6272	1	7619	0
885	0	2232	0	3579	0	4926	1	6273	1	7620	1
886	1	2233	0	3580	0	4927	0	6274	0	7621	1
887	1	2234	0	3581	1	4928	0	6275	0	7622	1
888	1	2235	1	3582	1	4929	0	6276	0	7623	0
889	0	2236	1	3583	0	4930	1	6277	0	7624	1
890	1	2237	1	3584	1	4931	1	6278	1	7625	0
891	0	2238	0	3585	0	4932	0	6279	1	7626	0
892	0	2239	0	3586	0	4933	0	6280	0	7627	0
893	1	2240	0	3587	0	4934	0	6281	1	7628	1
894	1	2241	0	3588	0	4935	1	6282	0	7629	1
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896	1	2243	1	3590	1	4937	1	6284	1	7631	1
897	1	2244	1	3591	0	4938	1	6285	1	7632	0
898	1	2245	1	3592	0	4939	0	6286	1	7633	0
899	0	2246	0	3593	1	4940	0	6287	1	7634	1
900	1	2247	0	3594	0	4941	0	6288	0	7635	0
901	0	2248	1	3595	0	4942	0	6289	0	7636	1
902	0	2249	0	3596	0	4943	1	6290	0	7637	1
903	1	2250	0	3597	0	4944	1	6291	0	7638	1
904	0	2251	1	3598	1	4945	1	6292	0	7639	1

905	0	2252	1	3599	0	4946	0	6293	1	7640	1
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907	0	2254	0	3601	1	4948	1	6295	0	7642	1
908	1	2255	0	3602	1	4949	1	6296	0	7643	0
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913	0	2260	1	3607	1	4954	1	6301	1	7648	0
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916	0	2263	0	3610	0	4957	1	6304	0	7651	1
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956	1	2303	0	3650	0	4997	0	6344	0	7691	0
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959	0	2306	0	3653	0	5000	1	6347	1	7694	1
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964	0	2311	1	3658	1	5005	1	6352	1	7699	0
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966	0	2313	1	3660	1	5007	1	6354	1	7701	0
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968	1	2315	1	3662	1	5009	1	6356	1	7703	1
969	1	2316	0	3663	0	5010	1	6357	1	7704	0
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973	0	2320	1	3667	1	5014	0	6361	1	7708	0
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975	1	2322	1	3669	0	5016	0	6363	0	7710	1
976	0	2323	1	3670	1	5017	0	6364	1	7711	0
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981	1	2328	1	3675	0	5022	1	6369	0	7716	0
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