

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z, z^5 + z^3 + z + 1)$$

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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 $(a, b) = (z, z^5 + z^3 + z + 1)$.

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 $(a, b) = (z, z^5 + z^3 + z + 1)$, 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 $\text{CF}(a, b)$,

$$p_0(z) = z^{20} + z^{18} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^3 + z + 1,$$

$$p_1(z) = z^{23} + z^{21} + z^{19} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^6 + z^4 + z^3 + z^2 + z,$$

$$p_2(z) = z^{24} + z^{22} + z^{16} + z^{10} + z^8 + z^2,$$

$$p_3(z) = z^{23} + z^{21} + z^{19} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^6 + z^4 + z^3 + z^2 + z,$$

$$p_4(z) = z^{22} + z^{18} + z^{14} + z^{13} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z^2 + z,$$

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

$$p_0(z) = z^{18} + z^{14} + z^{13} + z^{11} + z^{10} + z^9 + z^7 + z^6 + z^5 + z^3 + z,$$

$$p_1(z) = z^{23} + z^{21} + z^{19} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^6 + z^4 + z^3 + z^2 + z,$$

$$p_2(z) = z^{24} + z^{22} + z^{16} + z^{10} + z^8 + z^2,$$

$$p_3(z) = z^{23} + z^{21} + z^{19} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^6 + z^4 + z^3 + z^2 + z,$$

$$p_4(z) = z^{22} + z^{20} + z^{18} + z^{14} + z^{13} + z^{12} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z^2 + z + 1.$$

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

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

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

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

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

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

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

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

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

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

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

which can be rewritten as

$$(2.7) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[110w]_2],$$

$$(2.8) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[111w]_2],$$

$$(2.9) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

$$(2.10) \quad \begin{aligned} 0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] \\ &\quad + T[[1001w]_2], \end{aligned}$$

$$(2.11) \quad \begin{aligned} 0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] \\ &\quad + T[[1010w]_2], \end{aligned}$$

$$(2.12) \quad \begin{aligned} 0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] \\ &\quad + T[[1011w]_2], \end{aligned}$$

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

$$(2.13) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[110w]_2],$$

$$(2.14) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[111w]_2],$$

$$(2.15) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

$$(2.16) \quad \begin{aligned} 0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] \\ &\quad + T[[1001w]_2], \end{aligned}$$

$$(2.17) \quad \begin{aligned} 0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] \\ &\quad + T[[1010w]_2], \end{aligned}$$

$$(2.18) \quad \begin{aligned} 0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] \\ &\quad + T[[1011w]_2], \end{aligned}$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8192 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

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

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

$$(2.19) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 110)),$$

$$(2.20) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 111)),$$

$$(2.21) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1000)), \end{aligned}$$

$$(2.22) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 1001)), \end{aligned}$$

$$(2.23) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 1010)), \end{aligned}$$

$$(2.24) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 1011)), \end{aligned}$$

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

$$(2.25) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 110)),$$

$$(2.26) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 111)),$$

$$0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

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

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{148}), E_{148}) = (A(i, 0^{24}), E_{24})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 74$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

We give the proof of

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

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

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

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

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

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

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

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

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

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

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

$$\begin{aligned} p_0(x) &= x^{138} + x^{136} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{116} + x^{114} + x^{108} \\ &\quad + x^{102} + x^{100} + x^{98} + x^{96} + x^{88} + x^{80} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} \\ &\quad + x^{66} + x^{58} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{30} + x^{20} + x^{12}, \\ p_3(x) &= x^{134} + x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{98} + x^{92} + x^{86} \\ &\quad + x^{80} + x^{78} + x^{76} + x^{74} + x^{68} + x^{66} + x^{50} + x^{48} + x^{46} + x^{44} + x^{40} \\ &\quad + x^{38} + x^{34} + x^{32} + x^{28} + x^{26} + x^{22} + x^{16} + x^{14} + x^8, \\ p_6(x) &= x^{132} + x^{128} + x^{120} + x^{112} + x^{106} + x^{94} + x^{92} + x^{84} + x^{78} + x^{76} + x^{74} \\ &\quad + x^{70} + x^{68} + x^{66} + x^{62} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} + x^{42} \\ &\quad + x^{40} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24} + x^{20} + x^4 + x^2 + 1, \\ p_9(x) &= x^{136} + x^{134} + x^{130} + x^{124} + x^{120} + x^{114} + x^{112} + x^{108} + x^{106} + x^{104} \\ &\quad + x^{102} + x^{100} + x^{94} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} + x^{72} + x^{70} \\ &\quad + x^{62} + x^{60} + x^{56} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{38} + x^{32} + x^{30} \\ &\quad + x^{28} + x^{26} + x^{22} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12} + x^8 + x^6 + x^4 + x^2, \\ p_{12}(x) &= x^{136} + x^{128} + x^{120} + x^{104} + x^{96} + x^{88} + x^{80} + x^{72} + x^{64} + x^{56} + x^{48} \\ &\quad + x^{40} + x^{32} + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{125} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{111} + x^{110} \\ &\quad + x^{109} + x^{108} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} \\ &\quad + x^{94} + x^{91} + x^{90} + x^{88} + x^{87} + x^{86} + x^{83} + x^{81} + x^{74} + x^{70} + x^{69} \\ &\quad + x^{64} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{53} + x^{52} + x^{50} + x^{49} + x^{44} \\ &\quad + x^{40} + x^{35} + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} + x^{23} + x^{18}, \\ p_3(x) &= x^{124} + x^{121} + x^{119} + x^{118} + x^{115} + x^{113} + x^{104} + x^{102} + x^{101} + x^{100} \\ &\quad + x^{96} + x^{95} + x^{93} + x^{91} + x^{88} + x^{86} + x^{85} + x^{84} + x^{79} + x^{78} + x^{75} \\ &\quad + x^{73} + x^{68} + x^{65} + x^{64} + x^{63} + x^{61} + x^{59} + x^{56} + x^{54} + x^{53} + x^{49} \\ &\quad + x^{44} + x^{41} + x^{39} + x^{38} + x^{35} + x^{33} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} \\ &\quad + x^{19} + x^{16} + x^{14} + x^{13} + x^9, \end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{110} \\
&\quad + x^{109} + x^{108} + x^{106} + x^{104} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{90} \\
&\quad + x^{89} + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{72} + x^{71} \\
&\quad + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{58} + x^{51} + x^{50} \\
&\quad + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} + x^{34} + x^{33} + x^{30} \\
&\quad + x^{29} + x^{26} + x^{24} + x^{19} + x^{18} + x^{16} + x^{15} + x^{12} + x^{11} + x^8 + x^6, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{118} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} \\
&\quad + x^{107} + x^{106} + x^{104} + x^{102} + x^{100} + x^{95} + x^{94} + x^{91} + x^{89} + x^{88} \\
&\quad + x^{85} + x^{83} + x^{76} + x^{73} + x^{71} + x^{70} + x^{67} + x^{65} + x^{64} + x^{62} + x^{61} \\
&\quad + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{41} \\
&\quad + x^{40} + x^{38} + x^{37} + x^{36} + x^{31} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} \\
&\quad + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} + x^8 + x^3, \\
p_{12}(x) &= x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
&\quad + x^{102} + x^{100} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} \\
&\quad + x^{73} + x^{70} + x^{68} + x^{61} + x^{60} + x^{58} + x^{57} + x^{54} + x^{52} + x^{45} + x^{44} \\
&\quad + x^{42} + x^{41} + x^{38} + x^{36} + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{13} \\
&\quad + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{111} + x^{110} \\
&\quad + x^{109} + x^{108} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} \\
&\quad + x^{94} + x^{91} + x^{90} + x^{88} + x^{87} + x^{86} + x^{83} + x^{81} + x^{74} + x^{70} + x^{69} \\
&\quad + x^{64} + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{53} + x^{52} + x^{50} + x^{49} + x^{44} \\
&\quad + x^{40} + x^{35} + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} + x^{23} + x^{18}, \\
p_3(x) &= x^{124} + x^{121} + x^{119} + x^{118} + x^{115} + x^{113} + x^{104} + x^{102} + x^{101} + x^{100} \\
&\quad + x^{96} + x^{95} + x^{93} + x^{91} + x^{88} + x^{86} + x^{85} + x^{84} + x^{79} + x^{78} + x^{75} \\
&\quad + x^{73} + x^{68} + x^{65} + x^{64} + x^{63} + x^{61} + x^{59} + x^{56} + x^{54} + x^{53} + x^{49} \\
&\quad + x^{44} + x^{41} + x^{39} + x^{38} + x^{35} + x^{33} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} \\
&\quad + x^{19} + x^{16} + x^{14} + x^{13} + x^9, \\
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{110} \\
&\quad + x^{109} + x^{108} + x^{106} + x^{104} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{90} \\
&\quad + x^{89} + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{72} + x^{71} \\
&\quad + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{58} + x^{51} + x^{50} \\
&\quad + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} + x^{34} + x^{33} + x^{30} \\
&\quad + x^{29} + x^{26} + x^{24} + x^{19} + x^{18} + x^{16} + x^{15} + x^{12} + x^{11} + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{118} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} \\
&\quad + x^{107} + x^{106} + x^{104} + x^{102} + x^{100} + x^{95} + x^{94} + x^{91} + x^{89} + x^{88} \\
&\quad + x^{85} + x^{83} + x^{76} + x^{73} + x^{71} + x^{70} + x^{67} + x^{65} + x^{64} + x^{62} + x^{61} \\
&\quad + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{41} \\
&\quad + x^{40} + x^{38} + x^{37} + x^{36} + x^{31} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} \\
&\quad + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} + x^8 + x^3, \\
p_{12}(x) &= x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
&\quad + x^{102} + x^{100} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} \\
&\quad + x^{73} + x^{70} + x^{68} + x^{61} + x^{60} + x^{58} + x^{57} + x^{54} + x^{52} + x^{45} + x^{44} \\
&\quad + x^{42} + x^{41} + x^{38} + x^{36} + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{13} \\
&\quad + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{102} + x^{94} + x^{92} + x^{90} + x^{84} + x^{78} + x^{74} + x^{68} + x^{62} + x^{60} \\
&\quad + x^{58} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} + x^{34} + x^{32} + x^{24}, \\
p_3(x) &= x^{108} + x^{98} + x^{94} + x^{86} + x^{84} + x^{72} + x^{70} + x^{68} + x^{64} + x^{62} + x^{52} \\
&\quad + x^{42} + x^{38} + x^{30} + x^{28} + x^{16} + x^{14} + x^{12} + x^8 + x^6, \\
p_6(x) &= x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{80} \\
&\quad + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{56} + x^{54} \\
&\quad + x^{52} + x^{44} + x^{40} + x^{36} + x^{32} + x^{30} + x^{26} + x^{24} + x^{20} + x^{16} + x^{12} \\
&\quad + x^4 + x^2 + 1, \\
p_9(x) &= x^{106} + x^{102} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{80} + x^{78} + x^{76} + x^{68} \\
&\quad + x^{62} + x^{58} + x^{54} + x^{52} + x^{50} + x^{44} + x^{42} + x^{40} + x^{38} + x^{34} + x^{32} \\
&\quad + x^{30} + x^{28} + x^{24} + x^{14} + x^4 + x^2, \\
p_{12}(x) &= x^{106} + x^{104} + x^{100} + x^{96} + x^{90} + x^{88} + x^{84} + x^{80} + x^{74} + x^{72} + x^{68} \\
&\quad + x^{64} + x^{58} + x^{56} + x^{52} + x^{48} + x^{42} + x^{40} + x^{36} + x^{32} + x^{26} + x^{24} \\
&\quad + x^{20} + x^{16} + x^{10} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{102} + x^{96} + x^{94} + x^{90} + x^{88} \\
&\quad + x^{84} + x^{82} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{64} + x^{62} + x^{58} \\
&\quad + x^{56} + x^{54} + x^{44} + x^{36} + x^{34} + x^{30} + x^{28} + x^{26} + x^{22} + x^{12}, \\
p_3(x) &= x^{108} + x^{104} + x^{100} + x^{96} + x^{94} + x^{92} + x^{86} + x^{82} + x^{78} + x^{76} + x^{74} \\
&\quad + x^{72} + x^{66} + x^{60} + x^{56} + x^{38} + x^{32} + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} \\
&\quad + x^{18} + x^{12} + x^{10} + x^8,
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{108} + x^{106} + x^{104} + x^{100} + x^{98} + x^{92} + x^{84} + x^{80} + x^{76} + x^{74} + x^{72} \\
&\quad + x^{68} + x^{66} + x^{64} + x^{62} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} \\
&\quad + x^{36} + x^{28} + x^{24} + x^{20} + x^{18} + x^{16} + x^{12} + x^{10} + x^8 + x^6 + x^2 + 1, \\
p_9(x) &= x^{106} + x^{102} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{80} + x^{78} + x^{76} + x^{68} \\
&\quad + x^{62} + x^{58} + x^{54} + x^{52} + x^{50} + x^{44} + x^{42} + x^{40} + x^{38} + x^{34} + x^{32} \\
&\quad + x^{30} + x^{28} + x^{24} + x^{14} + x^4 + x^2, \\
p_{12}(x) &= x^{106} + x^{104} + x^{100} + x^{96} + x^{90} + x^{88} + x^{84} + x^{80} + x^{74} + x^{72} + x^{68} \\
&\quad + x^{64} + x^{58} + x^{56} + x^{52} + x^{48} + x^{42} + x^{40} + x^{36} + x^{32} + x^{26} + x^{24} \\
&\quad + x^{20} + x^{16} + x^{10} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{121} + x^{118} + x^{116} + x^{115} + x^{113} + x^{108} + x^{106} + x^{103} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{99} + x^{95} + x^{94} + x^{93} + x^{89} + x^{88} + x^{87} + x^{86} \\
&\quad + x^{84} + x^{82} + x^{81} + x^{76} + x^{75} + x^{72} + x^{68} + x^{67} + x^{63} + x^{61} + x^{60} \\
&\quad + x^{57} + x^{54} + x^{48} + x^{46} + x^{42} + x^{38} + x^{35} + x^{33} + x^{32} + x^{28} + x^{24}, \\
p_3(x) &= x^{124} + x^{121} + x^{119} + x^{118} + x^{115} + x^{113} + x^{104} + x^{102} + x^{101} + x^{100} \\
&\quad + x^{96} + x^{95} + x^{93} + x^{91} + x^{88} + x^{86} + x^{85} + x^{84} + x^{79} + x^{78} + x^{75} \\
&\quad + x^{73} + x^{68} + x^{65} + x^{64} + x^{63} + x^{61} + x^{59} + x^{56} + x^{54} + x^{53} + x^{49} \\
&\quad + x^{44} + x^{41} + x^{39} + x^{38} + x^{35} + x^{33} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} \\
&\quad + x^{19} + x^{16} + x^{14} + x^{13} + x^9, \\
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{110} \\
&\quad + x^{109} + x^{108} + x^{106} + x^{104} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{90} \\
&\quad + x^{89} + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{72} + x^{71} \\
&\quad + x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{58} + x^{51} + x^{50} \\
&\quad + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} + x^{34} + x^{33} + x^{30} \\
&\quad + x^{29} + x^{26} + x^{24} + x^{19} + x^{18} + x^{16} + x^{15} + x^{12} + x^{11} + x^8 + x^6, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{118} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} \\
&\quad + x^{107} + x^{106} + x^{104} + x^{102} + x^{100} + x^{95} + x^{94} + x^{91} + x^{89} + x^{88} \\
&\quad + x^{85} + x^{83} + x^{76} + x^{73} + x^{71} + x^{70} + x^{67} + x^{65} + x^{64} + x^{62} + x^{61} \\
&\quad + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{41} \\
&\quad + x^{40} + x^{38} + x^{37} + x^{36} + x^{31} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} \\
&\quad + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} + x^8 + x^3, \\
p_{12}(x) &= x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
&\quad + x^{102} + x^{100} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} \\
&\quad + x^{73} + x^{70} + x^{68} + x^{61} + x^{60} + x^{58} + x^{57} + x^{54} + x^{52} + x^{45} + x^{44}
\end{aligned}$$

$$\begin{aligned}
& + x^{42} + x^{41} + x^{38} + x^{36} + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{13} \\
& + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{123} + x^{121} + x^{118} + x^{116} + x^{115} + x^{113} + x^{108} + x^{106} + x^{103} \\
&+ x^{102} + x^{101} + x^{100} + x^{99} + x^{95} + x^{94} + x^{93} + x^{89} + x^{88} + x^{87} + x^{86} \\
&+ x^{84} + x^{82} + x^{81} + x^{76} + x^{75} + x^{72} + x^{68} + x^{67} + x^{63} + x^{61} + x^{60} \\
&+ x^{57} + x^{54} + x^{48} + x^{46} + x^{42} + x^{38} + x^{35} + x^{33} + x^{32} + x^{28} + x^{24}, \\
p_3(x) &= x^{124} + x^{121} + x^{119} + x^{118} + x^{115} + x^{113} + x^{104} + x^{102} + x^{101} + x^{100} \\
&+ x^{96} + x^{95} + x^{93} + x^{91} + x^{88} + x^{86} + x^{85} + x^{84} + x^{79} + x^{78} + x^{75} \\
&+ x^{73} + x^{68} + x^{65} + x^{64} + x^{63} + x^{61} + x^{59} + x^{56} + x^{54} + x^{53} + x^{49} \\
&+ x^{44} + x^{41} + x^{39} + x^{38} + x^{35} + x^{33} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} \\
&+ x^{19} + x^{16} + x^{14} + x^{13} + x^9, \\
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{110} \\
&+ x^{109} + x^{108} + x^{106} + x^{104} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} + x^{90} \\
&+ x^{89} + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{72} + x^{71} \\
&+ x^{70} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{58} + x^{51} + x^{50} \\
&+ x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{37} + x^{34} + x^{33} + x^{30} \\
&+ x^{29} + x^{26} + x^{24} + x^{19} + x^{18} + x^{16} + x^{15} + x^{12} + x^{11} + x^8 + x^6, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{118} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} \\
&+ x^{107} + x^{106} + x^{104} + x^{102} + x^{100} + x^{95} + x^{94} + x^{91} + x^{89} + x^{88} \\
&+ x^{85} + x^{83} + x^{76} + x^{73} + x^{71} + x^{70} + x^{67} + x^{65} + x^{64} + x^{62} + x^{61} \\
&+ x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} + x^{41} \\
&+ x^{40} + x^{38} + x^{37} + x^{36} + x^{31} + x^{28} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} \\
&+ x^{16} + x^{14} + x^{13} + x^{12} + x^{10} + x^8 + x^3, \\
p_{12}(x) &= x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
&+ x^{102} + x^{100} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} \\
&+ x^{73} + x^{70} + x^{68} + x^{61} + x^{60} + x^{58} + x^{57} + x^{54} + x^{52} + x^{45} + x^{44} \\
&+ x^{42} + x^{41} + x^{38} + x^{36} + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{13} \\
&+ x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{134} + x^{128} + x^{122} + x^{114} + x^{112} + x^{108} + x^{106} + x^{102} + x^{100} \\
&+ x^{94} + x^{90} + x^{86} + x^{82} + x^{74} + x^{72} + x^{70} + x^{66} + x^{58} + x^{56} + x^{54} \\
&+ x^{50} + x^{46} + x^{44} + x^{36},
\end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{132} + x^{126} + x^{122} + x^{120} + x^{118} + x^{116} + x^{106} + x^{102} + x^{100} + x^{96} \\
&\quad + x^{92} + x^{86} + x^{78} + x^{70} + x^{68} + x^{64} + x^{62} + x^{58} + x^{56} + x^{54} + x^{52} \\
&\quad + x^{48} + x^{42} + x^{38} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^{18} + x^{16} + x^{14} \\
&\quad + x^8 + x^6, \\
p_6(x) &= x^{134} + x^{132} + x^{126} + x^{122} + x^{116} + x^{114} + x^{110} + x^{104} + x^{102} + x^{98} \\
&\quad + x^{94} + x^{92} + x^{80} + x^{78} + x^{76} + x^{72} + x^{64} + x^{58} + x^{52} + x^{50} + x^{44} \\
&\quad + x^{40} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} + x^{20} + x^{18} + x^{12} + x^6 \\
&\quad + x^2 + 1, \\
p_9(x) &= x^{136} + x^{134} + x^{130} + x^{124} + x^{120} + x^{114} + x^{112} + x^{108} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{100} + x^{94} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} + x^{72} + x^{70} \\
&\quad + x^{62} + x^{60} + x^{56} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{38} + x^{32} + x^{30} \\
&\quad + x^{28} + x^{26} + x^{22} + x^{20} + x^{18} + x^{16} + x^{14} + x^{12} + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) &= x^{136} + x^{128} + x^{120} + x^{104} + x^{96} + x^{88} + x^{80} + x^{72} + x^{64} + x^{56} + x^{48} \\
&\quad + x^{40} + x^{32} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{113} \\
&\quad + x^{112} + x^{108} + x^{106} + x^{105} + x^{104} + x^{99} + x^{94} + x^{91} + x^{89} + x^{88} \\
&\quad + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} \\
&\quad + x^{71} + x^{70} + x^{65} + x^{64} + x^{63} + x^{60} + x^{56} + x^{54} + x^{51} + x^{50} + x^{49} \\
&\quad + x^{48} + x^{47} + x^{46} + x^{42} + x^{40} + x^{38} + x^{37} + x^{33} + x^{30} + x^{28} + x^{26} \\
&\quad + x^{24} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{12}, \\
p_3(x) &= x^{125} + x^{123} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} \\
&\quad + x^{110} + x^{107} + x^{105} + x^{104} + x^{103} + x^{101} + x^{95} + x^{94} + x^{93} + x^{91} \\
&\quad + x^{90} + x^{89} + x^{87} + x^{85} + x^{80} + x^{79} + x^{76} + x^{75} + x^{72} + x^{71} + x^{69} \\
&\quad + x^{68} + x^{65} + x^{64} + x^{63} + x^{58} + x^{56} + x^{55} + x^{53} + x^{48} + x^{47} + x^{46} \\
&\quad + x^{43} + x^{41} + x^{39} + x^{34} + x^{31} + x^{30} + x^{27} + x^{25} + x^{24} + x^{23} + x^{22} \\
&\quad + x^{21} + x^{20} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^8, \\
p_6(x) &= x^{125} + x^{123} + x^{120} + x^{117} + x^{115} + x^{114} + x^{111} + x^{110} + x^{109} + x^{107} \\
&\quad + x^{106} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{90} + x^{86} + x^{84} + x^{83} + x^{82} \\
&\quad + x^{81} + x^{79} + x^{78} + x^{75} + x^{74} + x^{68} + x^{65} + x^{63} + x^{62} + x^{59} + x^{56} \\
&\quad + x^{53} + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} \\
&\quad + x^{35} + x^{34} + x^{31} + x^{28} + x^{27} + x^{26} + x^{25} + x^{19} + x^{18} + x^{15} + x^{14} \\
&\quad + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^5 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105}
\end{aligned}$$

$$\begin{aligned}
& + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{90} + x^{89} + x^{86} + x^{84} + x^{81} \\
& + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{70} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} \\
& + x^{58} + x^{57} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{41} + x^{38} \\
& + x^{36} + x^{33} + x^{32} + x^{30} + x^{29} + x^{26} + x^{25} + x^{22} + x^{20} + x^{17} + x^{16} \\
& + x^{14} + x^{12} + x^9 + x^8 + x^6 + x^4, \\
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{108} \\
& + x^{97} + x^{96} + x^{94} + x^{92} + x^{81} + x^{80} + x^{78} + x^{76} + x^{65} + x^{64} + x^{62} \\
& + x^{60} + x^{49} + x^{48} + x^{46} + x^{44} + x^{33} + x^{32} + x^{30} + x^{28} + x^{17} + x^{16} \\
& + x^{14} + x^{13} + x^{10} + x^9 + x^6 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{124} + x^{121} + x^{117} + x^{115} + x^{113} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} + x^{95} + x^{92} + x^{91} \\
& + x^{89} + x^{88} + x^{87} + x^{86} + x^{83} + x^{82} + x^{80} + x^{77} + x^{76} + x^{72} + x^{71} \\
& + x^{67} + x^{64} + x^{63} + x^{60} + x^{59} + x^{56} + x^{52} + x^{51} + x^{47} + x^{46} + x^{44} \\
& + x^{40} + x^{39} + x^{37} + x^{36} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} \\
& + x^{18}, \\
p_3(x) = & x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{110} + x^{109} + x^{108} + x^{103} + x^{102} \\
& + x^{100} + x^{97} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{87} + x^{85} + x^{81} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{70} + x^{69} + x^{68} + x^{63} + x^{62} + x^{61} + x^{59} \\
& + x^{58} + x^{55} + x^{53} + x^{49} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{30} + x^{29} \\
& + x^{28} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{15} + x^{13} + x^9, \\
p_6(x) = & x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{104} + x^{92} + x^{86} + x^{84} + x^{78} \\
& + x^{72} + x^{66} + x^{64} + x^{62} + x^{60} + x^{58} + x^{46} + x^{40} + x^{38} + x^{36} + x^{32} \\
& + x^{28} + x^{24} + x^{14} + x^{10} + x^6, \\
p_9(x) = & x^{119} + x^{118} + x^{115} + x^{113} + x^{112} + x^{109} + x^{108} + x^{105} + x^{102} + x^{97} \\
& + x^{96} + x^{93} + x^{92} + x^{89} + x^{86} + x^{81} + x^{80} + x^{77} + x^{76} + x^{73} + x^{70} \\
& + x^{65} + x^{64} + x^{61} + x^{60} + x^{57} + x^{54} + x^{49} + x^{48} + x^{45} + x^{44} + x^{41} \\
& + x^{38} + x^{33} + x^{32} + x^{29} + x^{28} + x^{25} + x^{22} + x^{17} + x^{16} + x^{13} + x^{12} \\
& + x^9 + x^7 + x^3, \\
p_{12}(x) = & x^{120} + x^{116} + x^{112} + x^{108} + x^{92} + x^{76} + x^{60} + x^{44} + x^{28} + x^{12} + x^8 \\
& + x^4 + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120}$$

$$\begin{aligned}
& + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{106} + x^{104} \\
& + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{90} \\
& + x^{88} + x^{83} + x^{80} + x^{79} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{68} + x^{67} \\
& + x^{65} + x^{64} + x^{62} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} \\
& + x^{44} + x^{43} + x^{41} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{29} \\
& + x^{24}, \\
p_3(x) = & x^{137} + x^{136} + x^{135} + x^{134} + x^{132} + x^{131} + x^{128} + x^{126} + x^{121} + x^{120} \\
& + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{106} + x^{103} + x^{101} + x^{100} \\
& + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} \\
& + x^{85} + x^{81} + x^{78} + x^{77} + x^{75} + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{59} \\
& + x^{58} + x^{56} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{38} + x^{37} \\
& + x^{35} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} + x^{19} + x^{18} + x^{17} + x^{15} + x^{13} \\
& + x^9, \\
p_6(x) = & x^{138} + x^{136} + x^{128} + x^{122} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{106} \\
& + x^{102} + x^{98} + x^{92} + x^{88} + x^{86} + x^{80} + x^{78} + x^{76} + x^{70} + x^{68} + x^{66} \\
& + x^{64} + x^{48} + x^{44} + x^{40} + x^{38} + x^{34} + x^{28} + x^{24} + x^{18} + x^{10} + x^6, \\
p_9(x) = & x^{139} + x^{138} + x^{134} + x^{133} + x^{132} + x^{131} + x^{127} + x^{126} + x^{124} + x^{123} \\
& + x^{122} + x^{120} + x^{119} + x^{115} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} \\
& + x^{104} + x^{96} + x^{94} + x^{93} + x^{90} + x^{89} + x^{88} + x^{80} + x^{78} + x^{77} + x^{74} \\
& + x^{73} + x^{72} + x^{64} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{48} + x^{46} + x^{45} \\
& + x^{42} + x^{41} + x^{40} + x^{32} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{20} + x^{19} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9 + x^7 + x^3, \\
p_{12}(x) = & x^{140} + x^{128} + x^{100} + x^{96} + x^{84} + x^{80} + x^{68} + x^{64} + x^{52} + x^{48} + x^{36} \\
& + x^{32} + x^{28} + x^{20} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{121} + x^{120} + x^{116} + x^{114} + x^{111} + x^{107} + x^{105} + x^{103} \\
& + x^{101} + x^{100} + x^{98} + x^{97} + x^{90} + x^{87} + x^{86} + x^{82} + x^{80} + x^{75} + x^{73} \\
& + x^{71} + x^{66} + x^{65} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} \\
& + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} + x^{37} + x^{30}, \\
p_3(x) = & x^{125} + x^{122} + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{111} + x^{110} + x^{107} \\
& + x^{105} + x^{104} + x^{102} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} + x^{89} + x^{86} \\
& + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{71} + x^{69} + x^{68} \\
& + x^{67} + x^{66} + x^{65} + x^{60} + x^{56} + x^{54} + x^{47} + x^{46} + x^{42} + x^{41} + x^{40} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{32} + x^{31} + x^{30} + x^{26} + x^{25} + x^{22} + x^{21}
\end{aligned}$$

$$\begin{aligned}
& + x^{18} + x^{17} + x^{16} + x^{12}, \\
p_6(x) &= x^{125} + x^{122} + x^{119} + x^{113} + x^{112} + x^{111} + x^{110} + x^{107} + x^{104} + x^{101} \\
& + x^{100} + x^{99} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{81} + x^{80} + x^{79} + x^{75} \\
& + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{66} + x^{65} + x^{62} + x^{61} + x^{59} \\
& + x^{52} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{39} + x^{38} \\
& + x^{35} + x^{32} + x^{31} + x^{28} + x^{27} + x^{26} + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} \\
& + x^{12} + x^{10} + x^5 + x^4 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} \\
& + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{90} + x^{89} + x^{86} + x^{84} + x^{81} \\
& + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{70} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} \\
& + x^{58} + x^{57} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{41} + x^{38} \\
& + x^{36} + x^{33} + x^{32} + x^{30} + x^{29} + x^{26} + x^{25} + x^{22} + x^{20} + x^{17} + x^{16} \\
& + x^{14} + x^{12} + x^9 + x^8 + x^6 + x^4, \\
p_{12}(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{108} \\
& + x^{97} + x^{96} + x^{94} + x^{92} + x^{81} + x^{80} + x^{78} + x^{76} + x^{65} + x^{64} + x^{62} \\
& + x^{60} + x^{49} + x^{48} + x^{46} + x^{44} + x^{33} + x^{32} + x^{30} + x^{28} + x^{17} + x^{16} \\
& + x^{14} + x^{13} + x^{10} + x^9 + x^6 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{113} \\
& + x^{112} + x^{108} + x^{106} + x^{105} + x^{104} + x^{99} + x^{94} + x^{91} + x^{89} + x^{88} \\
& + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} \\
& + x^{71} + x^{70} + x^{65} + x^{64} + x^{63} + x^{60} + x^{56} + x^{54} + x^{51} + x^{50} + x^{49} \\
& + x^{48} + x^{47} + x^{46} + x^{42} + x^{40} + x^{38} + x^{37} + x^{33} + x^{30} + x^{28} + x^{26} \\
& + x^{24} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{16} + x^{12}, \\
p_3(x) &= x^{125} + x^{123} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{107} + x^{105} + x^{104} + x^{103} + x^{101} + x^{95} + x^{94} + x^{93} + x^{91} \\
& + x^{90} + x^{89} + x^{87} + x^{85} + x^{80} + x^{79} + x^{76} + x^{75} + x^{72} + x^{71} + x^{69} \\
& + x^{68} + x^{65} + x^{64} + x^{63} + x^{58} + x^{56} + x^{55} + x^{53} + x^{48} + x^{47} + x^{46} \\
& + x^{43} + x^{41} + x^{39} + x^{34} + x^{31} + x^{30} + x^{27} + x^{25} + x^{24} + x^{23} + x^{22} \\
& + x^{21} + x^{20} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^8, \\
p_6(x) &= x^{125} + x^{123} + x^{120} + x^{117} + x^{115} + x^{114} + x^{111} + x^{110} + x^{109} + x^{107} \\
& + x^{106} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{90} + x^{86} + x^{84} + x^{83} + x^{82} \\
& + x^{81} + x^{79} + x^{78} + x^{75} + x^{74} + x^{68} + x^{65} + x^{63} + x^{62} + x^{59} + x^{56} \\
& + x^{53} + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} + x^{37}
\end{aligned}$$

$$\begin{aligned}
& + x^{35} + x^{34} + x^{31} + x^{28} + x^{27} + x^{26} + x^{25} + x^{19} + x^{18} + x^{15} + x^{14} \\
& + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^5 + x^2 + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{122} + x^{120} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} \\
& + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{90} + x^{89} + x^{86} + x^{84} + x^{81} \\
& + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{70} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} \\
& + x^{58} + x^{57} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{41} + x^{38} \\
& + x^{36} + x^{33} + x^{32} + x^{30} + x^{29} + x^{26} + x^{25} + x^{22} + x^{20} + x^{17} + x^{16} \\
& + x^{14} + x^{12} + x^9 + x^8 + x^6 + x^4, \\
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{108} \\
& + x^{97} + x^{96} + x^{94} + x^{92} + x^{81} + x^{80} + x^{78} + x^{76} + x^{65} + x^{64} + x^{62} \\
& + x^{60} + x^{49} + x^{48} + x^{46} + x^{44} + x^{33} + x^{32} + x^{30} + x^{28} + x^{17} + x^{16} \\
& + x^{14} + x^{13} + x^{10} + x^9 + x^6 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} \\
& + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{106} + x^{104} \\
& + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{90} \\
& + x^{88} + x^{83} + x^{80} + x^{79} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{68} + x^{67} \\
& + x^{65} + x^{64} + x^{62} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} \\
& + x^{44} + x^{43} + x^{41} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{29} \\
& + x^{24}, \\
p_3(x) = & x^{137} + x^{136} + x^{135} + x^{134} + x^{132} + x^{131} + x^{128} + x^{126} + x^{121} + x^{120} \\
& + x^{119} + x^{117} + x^{116} + x^{113} + x^{111} + x^{106} + x^{103} + x^{101} + x^{100} \\
& + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} \\
& + x^{85} + x^{81} + x^{78} + x^{77} + x^{75} + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{59} \\
& + x^{58} + x^{56} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{38} + x^{37} \\
& + x^{35} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} + x^{19} + x^{18} + x^{17} + x^{15} + x^{13} \\
& + x^9, \\
p_6(x) = & x^{138} + x^{136} + x^{128} + x^{122} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{106} \\
& + x^{102} + x^{98} + x^{92} + x^{88} + x^{86} + x^{80} + x^{78} + x^{76} + x^{70} + x^{68} + x^{66} \\
& + x^{64} + x^{48} + x^{44} + x^{40} + x^{38} + x^{34} + x^{28} + x^{24} + x^{18} + x^{10} + x^6, \\
p_9(x) = & x^{139} + x^{138} + x^{134} + x^{133} + x^{132} + x^{131} + x^{127} + x^{126} + x^{124} + x^{123} \\
& + x^{122} + x^{120} + x^{119} + x^{115} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} \\
& + x^{104} + x^{96} + x^{94} + x^{93} + x^{90} + x^{89} + x^{88} + x^{80} + x^{78} + x^{77} + x^{74} \\
& + x^{73} + x^{72} + x^{64} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{48} + x^{46} + x^{45}
\end{aligned}$$

$$\begin{aligned}
& + x^{42} + x^{41} + x^{40} + x^{32} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{20} + x^{19} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^9 + x^7 + x^3, \\
p_{12}(x) = & x^{140} + x^{128} + x^{100} + x^{96} + x^{84} + x^{80} + x^{68} + x^{64} + x^{52} + x^{48} + x^{36} \\
& + x^{32} + x^{28} + x^{20} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{124} + x^{121} + x^{117} + x^{115} + x^{113} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} \\
& + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} + x^{95} + x^{92} + x^{91} \\
& + x^{89} + x^{88} + x^{87} + x^{86} + x^{83} + x^{82} + x^{80} + x^{77} + x^{76} + x^{72} + x^{71} \\
& + x^{67} + x^{64} + x^{63} + x^{60} + x^{59} + x^{56} + x^{52} + x^{51} + x^{47} + x^{46} + x^{44} \\
& + x^{40} + x^{39} + x^{37} + x^{36} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} \\
& + x^{18}, \\
p_3(x) = & x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{110} + x^{109} + x^{108} + x^{103} + x^{102} \\
& + x^{100} + x^{97} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{87} + x^{85} + x^{81} + x^{77} \\
& + x^{76} + x^{75} + x^{74} + x^{73} + x^{70} + x^{69} + x^{68} + x^{63} + x^{62} + x^{61} + x^{59} \\
& + x^{58} + x^{55} + x^{53} + x^{49} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{30} + x^{29} \\
& + x^{28} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{15} + x^{13} + x^9, \\
p_6(x) = & x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{104} + x^{92} + x^{86} + x^{84} + x^{78} \\
& + x^{72} + x^{66} + x^{64} + x^{62} + x^{60} + x^{58} + x^{46} + x^{40} + x^{38} + x^{36} + x^{32} \\
& + x^{28} + x^{24} + x^{14} + x^{10} + x^6, \\
p_9(x) = & x^{119} + x^{118} + x^{115} + x^{113} + x^{112} + x^{109} + x^{108} + x^{105} + x^{102} + x^{97} \\
& + x^{96} + x^{93} + x^{92} + x^{89} + x^{86} + x^{81} + x^{80} + x^{77} + x^{76} + x^{73} + x^{70} \\
& + x^{65} + x^{64} + x^{61} + x^{60} + x^{57} + x^{54} + x^{49} + x^{48} + x^{45} + x^{44} + x^{41} \\
& + x^{38} + x^{33} + x^{32} + x^{29} + x^{28} + x^{25} + x^{22} + x^{17} + x^{16} + x^{13} + x^{12} \\
& + x^9 + x^7 + x^3, \\
p_{12}(x) = & x^{120} + x^{116} + x^{112} + x^{108} + x^{92} + x^{76} + x^{60} + x^{44} + x^{28} + x^{12} + x^8 \\
& + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{124} + x^{121} + x^{120} + x^{116} + x^{114} + x^{111} + x^{107} + x^{105} + x^{103} \\
& + x^{101} + x^{100} + x^{98} + x^{97} + x^{90} + x^{87} + x^{86} + x^{82} + x^{80} + x^{75} + x^{73} \\
& + x^{71} + x^{66} + x^{65} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} \\
& + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} + x^{37} + x^{30}, \\
p_3(x) = & x^{125} + x^{122} + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{111} + x^{110} + x^{107} \\
& + x^{105} + x^{104} + x^{102} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} + x^{89} + x^{86}
\end{aligned}$$

$$\begin{aligned}
& + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{71} + x^{69} + x^{68} \\
& + x^{67} + x^{66} + x^{65} + x^{60} + x^{56} + x^{54} + x^{47} + x^{46} + x^{42} + x^{41} + x^{40} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{32} + x^{31} + x^{30} + x^{26} + x^{25} + x^{22} + x^{21} \\
& + x^{18} + x^{17} + x^{16} + x^{12}, \\
p_6(x) &= x^{125} + x^{122} + x^{119} + x^{113} + x^{112} + x^{111} + x^{110} + x^{107} + x^{104} + x^{101} \\
& + x^{100} + x^{99} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{81} + x^{80} + x^{79} + x^{75} \\
& + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{66} + x^{65} + x^{62} + x^{61} + x^{59} \\
& + x^{52} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{39} + x^{38} \\
& + x^{35} + x^{32} + x^{31} + x^{28} + x^{27} + x^{26} + x^{24} + x^{22} + x^{20} + x^{16} + x^{14} \\
& + x^{12} + x^{10} + x^5 + x^4 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} \\
& + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{90} + x^{89} + x^{86} + x^{84} + x^{81} \\
& + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{70} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} \\
& + x^{58} + x^{57} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{41} + x^{38} \\
& + x^{36} + x^{33} + x^{32} + x^{30} + x^{29} + x^{26} + x^{25} + x^{22} + x^{20} + x^{17} + x^{16} \\
& + x^{14} + x^{12} + x^9 + x^8 + x^6 + x^4, \\
p_{12}(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{108} \\
& + x^{97} + x^{96} + x^{94} + x^{92} + x^{81} + x^{80} + x^{78} + x^{76} + x^{65} + x^{64} + x^{62} \\
& + x^{60} + x^{49} + x^{48} + x^{46} + x^{44} + x^{33} + x^{32} + x^{30} + x^{28} + x^{17} + x^{16} \\
& + x^{14} + x^{13} + x^{10} + x^9 + x^6 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2049	[3323, 3324]	4098	[511, 2634]	6147	[4898, 2690]
1	[3, 4]	2050	[3325, 3326]	4099	[5223, 5395]	6148	[4521, 1706]
2	[5, 6]	2051	[1039, 83]	4100	[5396, 2085]	6149	[7007, 2576]
3	[7, 8]	2052	[3327, 3328]	4101	[5397, 550]	6150	[6746, 5347]
4	[9, 10]	2053	[3329, 3330]	4102	[788, 1994]	6151	[7008, 787]
5	[11, 12]	2054	[3331, 3332]	4103	[5389, 2217]	6152	[7009, 5061]
6	[13, 14]	2055	[108, 1591]	4104	[5398, 5325]	6153	[7010, 4321]
7	[15, 16]	2056	[3333, 3334]	4105	[5399, 2403]	6154	[2531, 4969]
8	[17, 18]	2057	[3335, 3336]	4106	[5400, 4385]	6155	[7005, 4616]
9	[19, 20]	2058	[3337, 1557]	4107	[5401, 5402]	6156	[7011, 4258]
10	[21, 22]	2059	[3047, 1287]	4108	[5403, 1823]	6157	[2720, 4995]
11	[23, 24]	2060	[3302, 1183]	4109	[5404, 5405]	6158	[546, 2128]
12	[25, 26]	2061	[420, 89]	4110	[5406, 4516]	6159	[5211, 6997]

13	[27, 28]	2062	[3338, 421]	4111	[5407, 1972]	6160	[5435, 6709]
14	[29, 30]	2063	[3339, 3340]	4112	[4651, 508]	6161	[6510, 4367]
15	[31, 32]	2064	[3341, 3342]	4113	[5408, 510]	6162	[7012, 4726]
16	[33, 34]	2065	[3343, 3344]	4114	[210, 4776]	6163	[7013, 6575]
17	[35, 36]	2066	[1476, 3345]	4115	[5409, 2158]	6164	[7014, 5244]
18	[37, 38]	2067	[3346, 3347]	4116	[5410, 4945]	6165	[7015, 6673]
19	[39, 40]	2068	[1624, 3348]	4117	[5411, 4509]	6166	[2142, 4322]
20	[41, 42]	2069	[3349, 3350]	4118	[5412, 5413]	6167	[7016, 807]
21	[43, 44]	2070	[3351, 3352]	4119	[5414, 2393]	6168	[7017, 6792]
22	[45, 46]	2071	[1704, 3353]	4120	[5415, 5416]	6169	[7018, 2375]
23	[47, 48]	2072	[1162, 3354]	4121	[5417, 2245]	6170	[7019, 2348]
24	[49, 50]	2073	[3355, 3082]	4122	[5418, 1889]	6171	[7020, 4302]
25	[51, 52]	2074	[3356, 1037]	4123	[5402, 242]	6172	[7021, 5280]
26	[53, 54]	2075	[3217, 3170]	4124	[648, 2659]	6173	[7022, 4778]
27	[55, 56]	2076	[116, 3357]	4125	[4458, 4676]	6174	[7023, 4297]
28	[57, 58]	2077	[3358, 3359]	4126	[5419, 1797]	6175	[4681, 5100]
29	[59, 60]	2078	[3360, 3361]	4127	[873, 45]	6176	[666, 5186]
30	[61, 62]	2079	[3139, 1324]	4128	[5420, 4667]	6177	[4405, 2785]
31	[63, 64]	2080	[3362, 1313]	4129	[5421, 142]	6178	[7024, 209]
32	[65, 66]	2081	[1598, 3363]	4130	[5422, 4768]	6179	[7025, 7026]
33	[67, 68]	2082	[3364, 3365]	4131	[5423, 1898]	6180	[928, 6856]
34	[69, 70]	2083	[3366, 1622]	4132	[5424, 700]	6181	[7027, 5196]
35	[71, 72]	2084	[3367, 3368]	4133	[4936, 5038]	6182	[7028, 667]
36	[73, 74]	2085	[3369, 3370]	4134	[5425, 4936]	6183	[5163, 7029]
37	[75, 76]	2086	[3371, 3372]	4135	[5426, 2019]	6184	[7030, 629]
38	[77, 78]	2087	[2917, 1538]	4136	[5188, 5075]	6185	[7031, 6631]
39	[79, 80]	2088	[3373, 1525]	4137	[5427, 1760]	6186	[7032, 46]
40	[81, 82]	2089	[3374, 3375]	4138	[5428, 5429]	6187	[5229, 4786]
41	[83, 84]	2090	[3376, 3377]	4139	[5430, 2081]	6188	[7033, 2519]
42	[85, 86]	2091	[3378, 3379]	4140	[5431, 4863]	6189	[178, 9]
43	[87, 88]	2092	[3380, 3381]	4141	[5432, 914]	6190	[7034, 4480]
44	[89, 90]	2093	[1140, 1515]	4142	[5433, 216]	6191	[2285, 4491]
45	[91, 92]	2094	[3382, 2949]	4143	[4925, 4470]	6192	[7035, 2507]
46	[93, 94]	2095	[3383, 3384]	4144	[5434, 5435]	6193	[7036, 4920]
47	[95, 96]	2096	[410, 3385]	4145	[5436, 5437]	6194	[1745, 2323]
48	[97, 98]	2097	[378, 1237]	4146	[4691, 2628]	6195	[7037, 6835]
49	[99, 100]	2098	[3386, 3387]	4147	[5438, 2791]	6196	[7038, 6588]
50	[101, 102]	2099	[3220, 3283]	4148	[5439, 609]	6197	[7039, 509]
51	[103, 104]	2100	[3388, 3389]	4149	[5440, 1856]	6198	[4209, 4577]
52	[105, 106]	2101	[3390, 3382]	4150	[4345, 5441]	6199	[7040, 1988]
53	[107, 108]	2102	[3391, 1221]	4151	[5442, 2631]	6200	[7041, 6571]
54	[109, 110]	2103	[3392, 3393]	4152	[5443, 4629]	6201	[7042, 2602]
55	[111, 112]	2104	[3394, 367]	4153	[5444, 5069]	6202	[7043, 1947]
56	[113, 114]	2105	[3395, 3396]	4154	[5445, 5130]	6203	[7044, 5112]

57	[115, 116]	2106	[3397, 3398]	4155	[5446, 567]	6204	[2011, 6812]
58	[117, 118]	2107	[953, 3399]	4156	[4794, 569]	6205	[4283, 747]
59	[119, 120]	2108	[3400, 3322]	4157	[5447, 565]	6206	[6800, 609]
60	[121, 122]	2109	[3401, 3402]	4158	[847, 247]	6207	[911, 4977]
61	[123, 124]	2110	[1570, 1382]	4159	[5448, 2336]	6208	[519, 4612]
62	[125, 126]	2111	[3403, 3404]	4160	[5449, 2100]	6209	[7045, 7046]
63	[127, 128]	2112	[3405, 3406]	4161	[5450, 5451]	6210	[7047, 4578]
64	[129, 130]	2113	[3407, 3408]	4162	[5452, 2527]	6211	[2063, 212]
65	[131, 132]	2114	[3409, 3410]	4163	[5453, 1888]	6212	[7048, 5060]
66	[133, 134]	2115	[3411, 3412]	4164	[5454, 4630]	6213	[1890, 4420]
67	[135, 136]	2116	[3413, 1489]	4165	[5455, 4249]	6214	[2038, 1905]
68	[137, 138]	2117	[3414, 3415]	4166	[5363, 5185]	6215	[7049, 5305]
69	[139, 140]	2118	[3416, 355]	4167	[5456, 4229]	6216	[2173, 2224]
70	[38, 141]	2119	[3417, 3203]	4168	[4434, 2504]	6217	[7050, 2019]
71	[142, 143]	2120	[3418, 1038]	4169	[2767, 5457]	6218	[5097, 611]
72	[144, 145]	2121	[3419, 3420]	4170	[772, 130]	6219	[7051, 6691]
73	[146, 147]	2122	[3421, 111]	4171	[2448, 209]	6220	[7052, 2050]
74	[148, 149]	2123	[3422, 3423]	4172	[5261, 5458]	6221	[7053, 4776]
75	[150, 151]	2124	[3424, 3425]	4173	[4288, 5459]	6222	[7054, 2685]
76	[152, 153]	2125	[3426, 3427]	4174	[5460, 2508]	6223	[7055, 5183]
77	[154, 155]	2126	[3428, 3429]	4175	[140, 5461]	6224	[2636, 1873]
78	[156, 157]	2127	[3430, 1206]	4176	[5462, 2656]	6225	[7056, 4470]
79	[158, 159]	2128	[3431, 3432]	4177	[681, 844]	6226	[7057, 4361]
80	[160, 161]	2129	[3433, 259]	4178	[5463, 235]	6227	[7058, 1817]
81	[162, 163]	2130	[3434, 2842]	4179	[2116, 4763]	6228	[1713, 6748]
82	[164, 165]	2131	[3435, 3436]	4180	[5464, 2526]	6229	[7059, 6696]
83	[166, 167]	2132	[1305, 3437]	4181	[5265, 4885]	6230	[6866, 6733]
84	[168, 169]	2133	[3438, 1020]	4182	[2093, 5141]	6231	[7060, 6644]
85	[170, 171]	2134	[1059, 3439]	4183	[5115, 2491]	6232	[5099, 4511]
86	[172, 155]	2135	[1344, 3440]	4184	[5182, 1771]	6233	[6968, 4938]
87	[173, 174]	2136	[1078, 1570]	4185	[5465, 5261]	6234	[831, 1739]
88	[175, 176]	2137	[3441, 1215]	4186	[5466, 2309]	6235	[4338, 5172]
89	[177, 178]	2138	[3442, 1539]	4187	[5467, 233]	6236	[2259, 140]
90	[179, 180]	2139	[3443, 3444]	4188	[5468, 224]	6237	[7061, 4458]
91	[181, 182]	2140	[3445, 3446]	4189	[5469, 5470]	6238	[7062, 2283]
92	[183, 184]	2141	[3447, 3448]	4190	[5471, 1867]	6239	[7063, 592]
93	[185, 186]	2142	[3449, 1463]	4191	[5472, 135]	6240	[7064, 7065]
94	[187, 188]	2143	[344, 3450]	4192	[5473, 703]	6241	[1937, 4307]
95	[189, 190]	2144	[3451, 3452]	4193	[5474, 745]	6242	[7066, 7028]
96	[191, 192]	2145	[3453, 3053]	4194	[3910, 324]	6243	[4253, 1745]
97	[193, 194]	2146	[3454, 3333]	4195	[5475, 3596]	6244	[7067, 2600]
98	[195, 196]	2147	[3183, 3455]	4196	[5476, 3588]	6245	[7068, 6733]
99	[197, 198]	2148	[3398, 3456]	4197	[5477, 3891]	6246	[7069, 2597]
100	[199, 200]	2149	[3457, 3458]	4198	[356, 5478]	6247	[4655, 1934]

101	[201, 202]	2150	[3459, 3460]	4199	[5479, 24]	6248	[7070, 6646]
102	[203, 204]	2151	[3461, 2989]	4200	[5480, 1528]	6249	[7071, 2570]
103	[205, 206]	2152	[2855, 385]	4201	[5481, 3262]	6250	[7072, 748]
104	[207, 208]	2153	[3462, 964]	4202	[4063, 4131]	6251	[7073, 6934]
105	[209, 210]	2154	[3463, 3172]	4203	[5482, 3015]	6252	[691, 2702]
106	[211, 212]	2155	[3464, 1032]	4204	[3954, 5483]	6253	[7074, 2691]
107	[213, 214]	2156	[3465, 1499]	4205	[1513, 4012]	6254	[7075, 6519]
108	[215, 185]	2157	[3466, 3467]	4206	[5484, 3363]	6255	[7076, 560]
109	[216, 217]	2158	[3468, 1328]	4207	[3415, 3777]	6256	[7077, 1787]
110	[218, 219]	2159	[3469, 3470]	4208	[3719, 3764]	6257	[5075, 6768]
111	[220, 221]	2160	[3471, 3361]	4209	[5485, 5486]	6258	[738, 2574]
112	[222, 223]	2161	[3067, 3261]	4210	[5487, 5488]	6259	[7078, 4655]
113	[224, 225]	2162	[3472, 1419]	4211	[5489, 333]	6260	[7079, 4584]
114	[226, 227]	2163	[3473, 3474]	4212	[445, 5490]	6261	[7080, 4794]
115	[228, 229]	2164	[3475, 112]	4213	[3919, 3914]	6262	[7081, 4295]
116	[230, 231]	2165	[3476, 3477]	4214	[2963, 5491]	6263	[7082, 2769]
117	[232, 233]	2166	[3478, 3479]	4215	[5492, 978]	6264	[7083, 31]
118	[234, 235]	2167	[3164, 104]	4216	[376, 2970]	6265	[5050, 5019]
119	[236, 237]	2168	[3480, 3481]	4217	[3979, 1582]	6266	[7084, 6695]
120	[238, 239]	2169	[3482, 3483]	4218	[5493, 3075]	6267	[7085, 5257]
121	[240, 241]	2170	[3484, 3485]	4219	[5494, 4069]	6268	[1997, 5446]
122	[242, 243]	2171	[2874, 3015]	4220	[2867, 5495]	6269	[7086, 2530]
123	[244, 245]	2172	[3486, 3451]	4221	[5496, 1208]	6270	[7087, 4922]
124	[246, 247]	2173	[3352, 3487]	4222	[1542, 5497]	6271	[7088, 4913]
125	[248, 249]	2174	[3488, 1644]	4223	[5498, 5499]	6272	[1935, 5469]
126	[250, 251]	2175	[1363, 3489]	4224	[5500, 5501]	6273	[7089, 6685]
127	[252, 253]	2176	[3490, 1527]	4225	[3749, 5502]	6274	[7090, 913]
128	[254, 255]	2177	[3491, 3492]	4226	[5503, 3151]	6275	[7091, 7090]
129	[256, 257]	2178	[3493, 3494]	4227	[5504, 5505]	6276	[7092, 7092]
130	[258, 259]	2179	[3495, 3496]	4228	[4062, 4128]	6277	[5255, 5260]
131	[260, 261]	2180	[3497, 3472]	4229	[455, 4020]	6278	[7093, 4677]
132	[262, 263]	2181	[964, 477]	4230	[5506, 4129]	6279	[7094, 2582]
133	[264, 265]	2182	[3498, 1247]	4231	[5507, 4131]	6280	[760, 6824]
134	[266, 267]	2183	[2851, 3499]	4232	[5508, 2895]	6281	[7095, 2238]
135	[268, 269]	2184	[3500, 3501]	4233	[5509, 3025]	6282	[7096, 10]
136	[270, 271]	2185	[2929, 1524]	4234	[5510, 3473]	6283	[7097, 6987]
137	[272, 273]	2186	[1057, 3502]	4235	[1029, 5511]	6284	[7098, 7099]
138	[274, 275]	2187	[3503, 3504]	4236	[5512, 5513]	6285	[7100, 5277]
139	[276, 277]	2188	[3306, 1542]	4237	[5514, 5515]	6286	[7101, 4532]
140	[278, 279]	2189	[3505, 3506]	4238	[5516, 5517]	6287	[7102, 2717]
141	[280, 281]	2190	[3507, 3508]	4239	[3833, 3332]	6288	[7103, 7006]
142	[282, 283]	2191	[3509, 3510]	4240	[5518, 5519]	6289	[2156, 2199]
143	[284, 285]	2192	[2897, 3511]	4241	[5520, 5521]	6290	[7104, 2795]
144	[286, 287]	2193	[3512, 308]	4242	[5522, 3569]	6291	[660, 2706]

145	[288, 289]	2194	[1658, 2902]	4243	[5523, 5524]	6292	[7105, 7050]
146	[290, 291]	2195	[3513, 3514]	4244	[64, 5525]	6293	[6879, 5413]
147	[292, 293]	2196	[1290, 3515]	4245	[5526, 5527]	6294	[2106, 5008]
148	[294, 295]	2197	[273, 3516]	4246	[5528, 5529]	6295	[2151, 2668]
149	[296, 297]	2198	[1385, 3466]	4247	[5530, 1612]	6296	[7106, 5457]
150	[298, 299]	2199	[3517, 3518]	4248	[5531, 1433]	6297	[7107, 899]
151	[300, 301]	2200	[269, 3049]	4249	[5532, 3915]	6298	[7108, 2084]
152	[302, 303]	2201	[3519, 1087]	4250	[5533, 3154]	6299	[4851, 4425]
153	[304, 305]	2202	[3211, 3520]	4251	[985, 1585]	6300	[7109, 4818]
154	[306, 307]	2203	[1065, 1386]	4252	[5534, 286]	6301	[7110, 1961]
155	[308, 309]	2204	[3521, 3480]	4253	[5535, 1390]	6302	[5019, 4981]
156	[310, 256]	2205	[1675, 3522]	4254	[5536, 4079]	6303	[4549, 4311]
157	[311, 312]	2206	[3357, 311]	4255	[5537, 4144]	6304	[5372, 5069]
158	[313, 314]	2207	[3523, 3524]	4256	[5538, 5539]	6305	[7111, 1920]
159	[315, 316]	2208	[2936, 3525]	4257	[5540, 3736]	6306	[7112, 7113]
160	[317, 318]	2209	[3526, 3527]	4258	[18, 5541]	6307	[7114, 2149]
161	[319, 320]	2210	[3528, 380]	4259	[22, 3595]	6308	[7115, 6568]
162	[321, 322]	2211	[2988, 3529]	4260	[5542, 2831]	6309	[202, 2608]
163	[323, 324]	2212	[3530, 3531]	4261	[30, 5543]	6310	[7116, 5340]
164	[325, 326]	2213	[3532, 3533]	4262	[5544, 5545]	6311	[7117, 194]
165	[327, 328]	2214	[3368, 3534]	4263	[5546, 5547]	6312	[7118, 2342]
166	[329, 330]	2215	[1645, 3535]	4264	[5548, 3735]	6313	[7119, 4853]
167	[331, 332]	2216	[3536, 1259]	4265	[5549, 3160]	6314	[7120, 1832]
168	[333, 334]	2217	[3537, 1398]	4266	[5550, 2914]	6315	[2518, 7121]
169	[335, 336]	2218	[3538, 3539]	4267	[5551, 5552]	6316	[7122, 2528]
170	[337, 338]	2219	[3540, 125]	4268	[2859, 1649]	6317	[1835, 4260]
171	[339, 340]	2220	[3541, 1467]	4269	[5553, 1676]	6318	[7123, 2819]
172	[341, 342]	2221	[3542, 1070]	4270	[5554, 5555]	6319	[7124, 7092]
173	[343, 344]	2222	[314, 3543]	4271	[5556, 1199]	6320	[7125, 5255]
174	[345, 346]	2223	[1533, 1388]	4272	[5557, 4186]	6321	[5257, 2563]
175	[347, 348]	2224	[3544, 3545]	4273	[5558, 3565]	6322	[2490, 4238]
176	[349, 350]	2225	[3546, 3547]	4274	[5559, 1674]	6323	[7126, 2001]
177	[351, 352]	2226	[3429, 3250]	4275	[5560, 2925]	6324	[7127, 5162]
178	[353, 354]	2227	[3456, 3548]	4276	[4021, 3495]	6325	[7128, 701]
179	[355, 356]	2228	[3549, 3550]	4277	[5561, 1646]	6326	[7129, 4854]
180	[357, 358]	2229	[2912, 3551]	4278	[5562, 3159]	6327	[2196, 1780]
181	[359, 360]	2230	[3552, 3479]	4279	[5563, 3034]	6328	[7130, 2313]
182	[361, 362]	2231	[461, 3553]	4280	[5564, 388]	6329	[537, 2649]
183	[363, 364]	2232	[3554, 3038]	4281	[5565, 4177]	6330	[7131, 2534]
184	[365, 366]	2233	[2980, 3200]	4282	[5566, 2941]	6331	[7132, 4710]
185	[367, 368]	2234	[3555, 3377]	4283	[1091, 5567]	6332	[7133, 2232]
186	[369, 370]	2235	[3142, 1510]	4284	[1683, 3701]	6333	[7134, 2172]
187	[371, 372]	2236	[3556, 1310]	4285	[5568, 5569]	6334	[7135, 4434]
188	[373, 374]	2237	[3557, 1689]	4286	[1121, 3765]	6335	[7136, 5458]

189	[375, 376]	2238	[3558, 3559]	4287	[5570, 1540]	6336	[5458, 5182]
190	[377, 378]	2239	[3560, 1331]	4288	[68, 4029]	6337	[7137, 4396]
191	[379, 380]	2240	[2906, 1402]	4289	[1155, 5571]	6338	[7138, 5009]
192	[381, 382]	2241	[3561, 3562]	4290	[5572, 5573]	6339	[7139, 6624]
193	[383, 384]	2242	[3023, 3563]	4291	[5574, 3311]	6340	[7140, 6997]
194	[385, 386]	2243	[3564, 3565]	4292	[4056, 4057]	6341	[2250, 5466]
195	[387, 388]	2244	[3566, 3197]	4293	[5575, 973]	6342	[2481, 2225]
196	[389, 390]	2245	[3567, 3568]	4294	[5576, 3564]	6343	[2145, 1929]
197	[391, 392]	2246	[3569, 3343]	4295	[5577, 5578]	6344	[7141, 5394]
198	[393, 394]	2247	[1518, 1652]	4296	[120, 2868]	6345	[7142, 684]
199	[395, 396]	2248	[3570, 3425]	4297	[5579, 456]	6346	[2383, 2306]
200	[397, 398]	2249	[368, 1260]	4298	[5580, 3118]	6347	[7143, 2603]
201	[399, 400]	2250	[1650, 3571]	4299	[5581, 1362]	6348	[7144, 2052]
202	[401, 402]	2251	[3572, 1507]	4300	[5582, 3047]	6349	[4894, 4632]
203	[403, 404]	2252	[3573, 3442]	4301	[5583, 3666]	6350	[7145, 6879]
204	[405, 406]	2253	[1047, 3574]	4302	[5584, 1673]	6351	[7146, 5194]
205	[407, 408]	2254	[3182, 3575]	4303	[5585, 1084]	6352	[7147, 5281]
206	[409, 410]	2255	[3576, 2857]	4304	[3348, 3065]	6353	[7148, 2356]
207	[411, 412]	2256	[3577, 3578]	4305	[5586, 951]	6354	[4663, 5351]
208	[413, 414]	2257	[435, 3579]	4306	[5587, 322]	6355	[7099, 933]
209	[415, 416]	2258	[3580, 278]	4307	[5588, 3019]	6356	[7149, 695]
210	[417, 418]	2259	[3581, 3582]	4308	[3179, 1250]	6357	[7150, 5331]
211	[419, 420]	2260	[3583, 3274]	4309	[5589, 5590]	6358	[7151, 4889]
212	[421, 422]	2261	[3584, 3567]	4310	[5569, 1337]	6359	[7152, 4745]
213	[423, 424]	2262	[1132, 3393]	4311	[5591, 4158]	6360	[2694, 906]
214	[425, 426]	2263	[3585, 3586]	4312	[301, 5568]	6361	[7153, 2138]
215	[427, 369]	2264	[3587, 296]	4313	[350, 493]	6362	[6672, 775]
216	[428, 429]	2265	[1438, 2999]	4314	[5592, 290]	6363	[4233, 5392]
217	[430, 431]	2266	[3547, 3176]	4315	[5593, 1572]	6364	[7154, 2803]
218	[432, 433]	2267	[3588, 3589]	4316	[1656, 1306]	6365	[7155, 4243]
219	[434, 435]	2268	[3590, 3271]	4317	[5594, 1082]	6366	[7156, 543]
220	[436, 437]	2269	[3591, 3592]	4318	[441, 3524]	6367	[7157, 5051]
221	[438, 439]	2270	[3593, 3594]	4319	[3524, 5595]	6368	[5185, 7158]
222	[440, 441]	2271	[3187, 1236]	4320	[2857, 1366]	6369	[7159, 4283]
223	[442, 443]	2272	[3190, 373]	4321	[5596, 481]	6370	[7160, 5160]
224	[444, 445]	2273	[3595, 2975]	4322	[5597, 3457]	6371	[6619, 517]
225	[446, 447]	2274	[3470, 3596]	4323	[5598, 3216]	6372	[7161, 2362]
226	[26, 448]	2275	[3140, 1329]	4324	[1168, 5599]	6373	[2686, 5207]
227	[449, 450]	2276	[3597, 2839]	4325	[5600, 5601]	6374	[560, 1922]
228	[451, 307]	2277	[3598, 91]	4326	[5602, 3980]	6375	[2746, 587]
229	[452, 453]	2278	[2833, 3599]	4327	[1496, 4014]	6376	[7162, 4249]
230	[454, 455]	2279	[3600, 3601]	4328	[4013, 2942]	6377	[4304, 1855]
231	[456, 457]	2280	[1299, 2950]	4329	[1565, 5603]	6378	[1953, 5081]
232	[458, 459]	2281	[3602, 3603]	4330	[4174, 5604]	6379	[7163, 4359]

233	[460, 461]	2282	[1340, 3583]	4331	[1334, 988]	6380	[7164, 6699]
234	[462, 463]	2283	[1374, 1364]	4332	[5605, 3535]	6381	[5395, 4428]
235	[447, 464]	2284	[3604, 1061]	4333	[3344, 5606]	6382	[7165, 2697]
236	[465, 466]	2285	[3605, 3606]	4334	[3064, 5607]	6383	[7166, 5470]
237	[467, 468]	2286	[3263, 3605]	4335	[5608, 5609]	6384	[593, 929]
238	[469, 470]	2287	[3607, 3608]	4336	[3599, 1479]	6385	[7167, 2682]
239	[471, 472]	2288	[3609, 3610]	4337	[5610, 462]	6386	[7168, 567]
240	[473, 474]	2289	[3611, 3612]	4338	[5611, 1563]	6387	[4636, 4199]
241	[475, 476]	2290	[1601, 3613]	4339	[5612, 5613]	6388	[7169, 2244]
242	[477, 478]	2291	[3614, 3615]	4340	[5614, 4080]	6389	[7170, 5241]
243	[479, 480]	2292	[3616, 392]	4341	[5615, 4040]	6390	[4948, 5098]
244	[481, 482]	2293	[3617, 419]	4342	[5616, 5617]	6391	[7171, 7172]
245	[483, 484]	2294	[3618, 3619]	4343	[5618, 1591]	6392	[2791, 4223]
246	[485, 486]	2295	[3620, 3621]	4344	[5619, 3244]	6393	[5348, 871]
247	[487, 488]	2296	[3622, 3623]	4345	[5620, 3974]	6394	[7173, 2053]
248	[489, 490]	2297	[3624, 1348]	4346	[5621, 1667]	6395	[7174, 4426]
249	[486, 491]	2298	[3625, 3453]	4347	[5622, 261]	6396	[7175, 4875]
250	[492, 493]	2299	[3626, 3505]	4348	[1577, 3237]	6397	[656, 5233]
251	[494, 495]	2300	[3627, 305]	4349	[5623, 5624]	6398	[7176, 4997]
252	[496, 497]	2301	[3304, 3628]	4350	[5625, 5626]	6399	[6694, 4467]
253	[498, 499]	2302	[3629, 3630]	4351	[5627, 3544]	6400	[4934, 7088]
254	[500, 501]	2303	[3631, 3193]	4352	[3399, 3335]	6401	[2499, 7177]
255	[502, 503]	2304	[3632, 3633]	4353	[5628, 3040]	6402	[7178, 6618]
256	[504, 505]	2305	[3359, 3634]	4354	[5629, 2982]	6403	[1849, 7179]
257	[506, 507]	2306	[3635, 3636]	4355	[5630, 1445]	6404	[7029, 2105]
258	[508, 509]	2307	[3637, 1345]	4356	[5631, 5632]	6405	[6934, 4497]
259	[510, 511]	2308	[3638, 3511]	4357	[3322, 5633]	6406	[7180, 2629]
260	[512, 513]	2309	[3571, 3438]	4358	[5634, 1245]	6407	[7181, 4250]
261	[514, 515]	2310	[3639, 1125]	4359	[5635, 3593]	6408	[2596, 894]
262	[516, 517]	2311	[3291, 3640]	4360	[5636, 3590]	6409	[523, 2501]
263	[518, 519]	2312	[2869, 3641]	4361	[3166, 5637]	6410	[7182, 753]
264	[520, 521]	2313	[1628, 303]	4362	[5638, 405]	6411	[7183, 4201]
265	[522, 523]	2314	[3642, 3643]	4363	[5567, 994]	6412	[7184, 4940]
266	[524, 525]	2315	[3385, 1599]	4364	[1085, 5639]	6413	[6802, 6661]
267	[526, 527]	2316	[3644, 3645]	4365	[3455, 1566]	6414	[7185, 2238]
268	[528, 529]	2317	[3102, 3646]	4366	[5640, 1496]	6415	[734, 4875]
269	[530, 531]	2318	[3647, 3059]	4367	[5641, 69]	6416	[2212, 4518]
270	[532, 533]	2319	[3648, 3481]	4368	[5642, 3359]	6417	[2727, 4934]
271	[534, 535]	2320	[1202, 3649]	4369	[3485, 3781]	6418	[7186, 4649]
272	[536, 537]	2321	[3650, 3651]	4370	[5643, 1059]	6419	[7187, 1894]
273	[538, 539]	2322	[3030, 2978]	4371	[4149, 5644]	6420	[7188, 5375]
274	[540, 541]	2323	[3652, 1174]	4372	[5645, 4043]	6421	[7189, 890]
275	[542, 543]	2324	[3613, 3653]	4373	[5646, 5647]	6422	[7190, 5048]
276	[544, 51]	2325	[3654, 3309]	4374	[5648, 3586]	6423	[7191, 6638]

277	[545, 546]	2326	[1071, 3655]	4375	[5649, 3365]	6424	[7192, 2555]
278	[547, 548]	2327	[3656, 1698]	4376	[5650, 959]	6425	[7193, 2494]
279	[549, 550]	2328	[3657, 3658]	4377	[283, 3891]	6426	[2625, 4372]
280	[551, 552]	2329	[3659, 1171]	4378	[3937, 125]	6427	[7194, 7195]
281	[553, 554]	2330	[3257, 3660]	4379	[5651, 5652]	6428	[7196, 2154]
282	[555, 556]	2331	[3661, 3662]	4380	[946, 4066]	6429	[4679, 549]
283	[557, 558]	2332	[3663, 3664]	4381	[5653, 5654]	6430	[7197, 4255]
284	[559, 560]	2333	[3665, 1171]	4382	[3467, 3709]	6431	[7198, 4441]
285	[561, 562]	2334	[3666, 3051]	4383	[5655, 1373]	6432	[4924, 181]
286	[563, 564]	2335	[3667, 1627]	4384	[5656, 340]	6433	[5054, 4599]
287	[565, 566]	2336	[3668, 1226]	4385	[5657, 4137]	6434	[7199, 4400]
288	[567, 568]	2337	[2890, 3669]	4386	[3173, 2852]	6435	[5344, 752]
289	[569, 570]	2338	[3670, 3186]	4387	[5658, 3785]	6436	[7200, 2685]
290	[571, 572]	2339	[3671, 1132]	4388	[4139, 438]	6437	[7201, 917]
291	[573, 574]	2340	[3153, 3672]	4389	[5659, 5660]	6438	[7202, 2116]
292	[575, 576]	2341	[3673, 3674]	4390	[5661, 351]	6439	[7203, 2052]
293	[577, 578]	2342	[3594, 3675]	4391	[72, 5662]	6440	[7204, 5191]
294	[579, 580]	2343	[3676, 3207]	4392	[5663, 2952]	6441	[7205, 4579]
295	[581, 582]	2344	[3387, 3677]	4393	[3723, 440]	6442	[7206, 4753]
296	[583, 584]	2345	[316, 1166]	4394	[2926, 5664]	6443	[4913, 1755]
297	[585, 44]	2346	[3060, 3678]	4395	[3786, 3876]	6444	[7207, 7029]
298	[586, 587]	2347	[424, 3679]	4396	[5665, 3527]	6445	[2374, 6910]
299	[588, 589]	2348	[320, 3680]	4397	[5666, 5632]	6446	[7208, 6565]
300	[590, 591]	2349	[3681, 3620]	4398	[5667, 3868]	6447	[7209, 2752]
301	[592, 593]	2350	[3548, 3682]	4399	[5668, 3716]	6448	[4643, 5332]
302	[594, 595]	2351	[3683, 1316]	4400	[5669, 3804]	6449	[7210, 5441]
303	[596, 597]	2352	[3000, 3684]	4401	[5670, 3619]	6450	[808, 6658]
304	[598, 599]	2353	[3685, 101]	4402	[5671, 76]	6451	[6948, 5341]
305	[600, 601]	2354	[3686, 1575]	4403	[5672, 349]	6452	[7211, 1739]
306	[602, 603]	2355	[2861, 1220]	4404	[4034, 3976]	6453	[7212, 4932]
307	[604, 605]	2356	[3687, 1239]	4405	[5673, 4151]	6454	[7213, 2498]
308	[606, 607]	2357	[309, 313]	4406	[3133, 1127]	6455	[7214, 6898]
309	[535, 608]	2358	[3688, 3127]	4407	[1572, 5674]	6456	[1985, 4694]
310	[609, 610]	2359	[1020, 3406]	4408	[3539, 3547]	6457	[7179, 7215]
311	[611, 612]	2360	[1293, 3313]	4409	[5675, 5495]	6458	[7216, 5263]
312	[613, 614]	2361	[3689, 2903]	4410	[5676, 5478]	6459	[2428, 2154]
313	[615, 616]	2362	[3690, 3416]	4411	[5677, 3026]	6460	[7217, 5100]
314	[617, 618]	2363	[3105, 3691]	4412	[4001, 5613]	6461	[5224, 832]
315	[619, 620]	2364	[1200, 1523]	4413	[5678, 2915]	6462	[4569, 782]
316	[621, 622]	2365	[3692, 3693]	4414	[5679, 1550]	6463	[4867, 6556]
317	[623, 624]	2366	[3694, 3695]	4415	[5680, 1184]	6464	[7218, 4864]
318	[625, 626]	2367	[3696, 378]	4416	[5681, 1502]	6465	[7219, 5354]
319	[627, 628]	2368	[3406, 1053]	4417	[5682, 1349]	6466	[4966, 1972]
320	[629, 630]	2369	[3697, 3698]	4418	[5683, 1351]	6467	[5351, 6878]

321	[631, 231]	2370	[3699, 29]	4419	[5684, 4083]	6468	[5308, 604]
322	[632, 633]	2371	[3247, 3700]	4420	[3112, 5685]	6469	[7220, 7221]
323	[634, 635]	2372	[3701, 3702]	4421	[3761, 3045]	6470	[4305, 498]
324	[636, 637]	2373	[3703, 2888]	4422	[5578, 4113]	6471	[7222, 1927]
325	[564, 638]	2374	[3704, 1464]	4423	[5478, 5686]	6472	[2378, 7162]
326	[639, 640]	2375	[3705, 3386]	4424	[3389, 434]	6473	[4999, 6728]
327	[641, 642]	2376	[3706, 3707]	4425	[5687, 5688]	6474	[7223, 6800]
328	[643, 644]	2377	[3708, 1376]	4426	[5689, 5490]	6475	[7195, 1754]
329	[645, 646]	2378	[3709, 349]	4427	[3674, 5690]	6476	[163, 2738]
330	[647, 648]	2379	[3710, 3711]	4428	[5691, 5692]	6477	[1808, 7224]
331	[649, 650]	2380	[1366, 3712]	4429	[5693, 3344]	6478	[2488, 5139]
332	[651, 652]	2381	[3713, 3714]	4430	[82, 5694]	6479	[7225, 143]
333	[653, 654]	2382	[3715, 1247]	4431	[5695, 5696]	6480	[7226, 5316]
334	[655, 656]	2383	[1176, 3716]	4432	[4035, 2883]	6481	[2081, 2479]
335	[657, 658]	2384	[3559, 3420]	4433	[5647, 3148]	6482	[7227, 498]
336	[659, 660]	2385	[3717, 3718]	4434	[5697, 5698]	6483	[7228, 529]
337	[661, 662]	2386	[3612, 3719]	4435	[5699, 986]	6484	[4928, 2336]
338	[663, 664]	2387	[1190, 3720]	4436	[4070, 5700]	6485	[6898, 627]
339	[665, 666]	2388	[1138, 3721]	4437	[5701, 5702]	6486	[231, 5280]
340	[667, 42]	2389	[3722, 3723]	4438	[3592, 351]	6487	[7229, 818]
341	[668, 669]	2390	[3724, 3725]	4439	[5613, 3971]	6488	[2329, 7204]
342	[670, 671]	2391	[3726, 3727]	4440	[3062, 1397]	6489	[7230, 7162]
343	[672, 673]	2392	[3252, 3728]	4441	[5703, 331]	6490	[5231, 534]
344	[674, 675]	2393	[3729, 3730]	4442	[5704, 3324]	6491	[2317, 2556]
345	[676, 677]	2394	[3731, 326]	4443	[5705, 1368]	6492	[7231, 5604]
346	[678, 679]	2395	[3732, 1520]	4444	[5706, 5707]	6493	[7232, 3719]
347	[680, 681]	2396	[3733, 1571]	4445	[5708, 1344]	6494	[7233, 4063]
348	[682, 683]	2397	[999, 1448]	4446	[5709, 3782]	6495	[7234, 3728]
349	[684, 685]	2398	[3734, 2964]	4447	[1005, 2881]	6496	[3240, 2919]
350	[686, 687]	2399	[3735, 3736]	4448	[3739, 1002]	6497	[7235, 3308]
351	[688, 689]	2400	[3474, 3737]	4449	[5710, 1012]	6498	[6049, 3800]
352	[690, 691]	2401	[3738, 3731]	4450	[5711, 5712]	6499	[7236, 3067]
353	[692, 693]	2402	[1157, 3303]	4451	[5713, 3252]	6500	[4011, 3954]
354	[677, 694]	2403	[1254, 3739]	4452	[5714, 1485]	6501	[5690, 1092]
355	[695, 696]	2404	[3740, 1060]	4453	[5715, 3144]	6502	[7237, 1213]
356	[697, 698]	2405	[3741, 3742]	4454	[3565, 5716]	6503	[2992, 5646]
357	[699, 700]	2406	[3743, 3744]	4455	[5717, 3749]	6504	[7238, 1315]
358	[182, 701]	2407	[3575, 3316]	4456	[4113, 258]	6505	[7239, 3951]
359	[702, 703]	2408	[3745, 1064]	4457	[5718, 5719]	6506	[6336, 6285]
360	[704, 705]	2409	[372, 3746]	4458	[3022, 5720]	6507	[7240, 3058]
361	[706, 177]	2410	[3747, 2858]	4459	[5721, 3334]	6508	[7241, 3211]
362	[707, 708]	2411	[3748, 3727]	4460	[3900, 1081]	6509	[7242, 3590]
363	[709, 710]	2412	[1225, 3749]	4461	[3253, 1385]	6510	[7243, 5483]
364	[711, 712]	2413	[3750, 3751]	4462	[4095, 5722]	6511	[7244, 3043]

365	[713, 714]	2414	[3077, 3752]	4463	[5723, 3991]	6512	[6369, 346]
366	[715, 716]	2415	[3277, 3178]	4464	[1547, 3504]	6513	[7245, 7246]
367	[717, 718]	2416	[1194, 3753]	4465	[5724, 1456]	6514	[3865, 6089]
368	[719, 720]	2417	[3754, 1480]	4466	[5725, 5726]	6515	[7247, 6150]
369	[176, 721]	2418	[3755, 3756]	4467	[5727, 3214]	6516	[5541, 6064]
370	[694, 722]	2419	[3757, 3129]	4468	[1603, 5728]	6517	[6088, 6019]
371	[723, 724]	2420	[3758, 3311]	4469	[4176, 5729]	6518	[7248, 5970]
372	[725, 726]	2421	[3759, 3760]	4470	[5730, 5731]	6519	[7249, 5606]
373	[727, 728]	2422	[3655, 3761]	4471	[2983, 80]	6520	[7250, 1499]
374	[729, 730]	2423	[1665, 3762]	4472	[3868, 5732]	6521	[7251, 1306]
375	[731, 732]	2424	[3096, 986]	4473	[1462, 5733]	6522	[7252, 1345]
376	[733, 734]	2425	[2895, 975]	4474	[3543, 3706]	6523	[7253, 4062]
377	[735, 736]	2426	[3763, 3764]	4475	[1688, 3789]	6524	[7254, 5636]
378	[737, 738]	2427	[470, 75]	4476	[5734, 3351]	6525	[3279, 969]
379	[739, 740]	2428	[3765, 1596]	4477	[3630, 5735]	6526	[7255, 3941]
380	[741, 742]	2429	[3766, 3767]	4478	[4156, 288]	6527	[7256, 3699]
381	[743, 744]	2430	[3768, 3769]	4479	[3439, 3465]	6528	[3849, 5601]
382	[745, 746]	2431	[3770, 3658]	4480	[5736, 108]	6529	[7257, 5480]
383	[747, 748]	2432	[3771, 3507]	4481	[3728, 3088]	6530	[7258, 3871]
384	[749, 554]	2433	[3772, 3773]	4482	[3871, 5737]	6531	[7259, 2953]
385	[750, 751]	2434	[3634, 3774]	4483	[5738, 3549]	6532	[7260, 5685]
386	[752, 753]	2435	[3775, 3776]	4484	[90, 5739]	6533	[975, 5809]
387	[754, 755]	2436	[3777, 3778]	4485	[5740, 1035]	6534	[3875, 1659]
388	[640, 756]	2437	[360, 3779]	4486	[2886, 1616]	6535	[7261, 3007]
389	[757, 758]	2438	[437, 2928]	4487	[4000, 274]	6536	[7262, 3771]
390	[759, 760]	2439	[439, 3780]	4488	[5741, 5742]	6537	[7263, 5979]
391	[761, 762]	2440	[3781, 3782]	4489	[5707, 3758]	6538	[7264, 320]
392	[763, 731]	2441	[3410, 3783]	4490	[336, 3111]	6539	[7265, 3241]
393	[764, 765]	2442	[3784, 2891]	4491	[5743, 2864]	6540	[7266, 2937]
394	[766, 145]	2443	[3785, 3786]	4492	[5744, 3584]	6541	[1698, 5904]
395	[767, 768]	2444	[3787, 343]	4493	[5745, 5746]	6542	[7267, 1299]
396	[769, 770]	2445	[3788, 3753]	4494	[5747, 1429]	6543	[3545, 2880]
397	[771, 772]	2446	[3789, 3610]	4495	[5748, 5749]	6544	[7268, 3295]
398	[773, 774]	2447	[3790, 440]	4496	[5750, 3438]	6545	[3328, 429]
399	[775, 776]	2448	[3791, 3415]	4497	[5751, 96]	6546	[7269, 3399]
400	[777, 778]	2449	[3792, 3556]	4498	[2927, 2972]	6547	[7270, 1539]
401	[779, 196]	2450	[3506, 3793]	4499	[5752, 1655]	6548	[7271, 6130]
402	[780, 781]	2451	[3725, 3794]	4500	[5753, 3548]	6549	[1409, 3470]
403	[782, 783]	2452	[3795, 3796]	4501	[70, 5754]	6550	[7272, 3925]
404	[784, 785]	2453	[3797, 3798]	4502	[5755, 3495]	6551	[7273, 3304]
405	[786, 787]	2454	[3799, 3800]	4503	[5692, 5756]	6552	[7274, 6361]
406	[521, 788]	2455	[3801, 1033]	4504	[5757, 3316]	6553	[6121, 6006]
407	[789, 790]	2456	[358, 3802]	4505	[5758, 68]	6554	[1617, 1027]
408	[791, 792]	2457	[3037, 3046]	4506	[5759, 3056]	6555	[7275, 274]

409	[793, 794]	2458	[3803, 1649]	4507	[5760, 5620]	6556	[7276, 471]
410	[795, 796]	2459	[3804, 1258]	4508	[5761, 3260]	6557	[7277, 5580]
411	[797, 57]	2460	[3805, 1549]	4509	[5762, 5763]	6558	[7278, 3684]
412	[728, 798]	2461	[3806, 3807]	4510	[5764, 3697]	6559	[7279, 1369]
413	[799, 800]	2462	[2958, 6]	4511	[5765, 3555]	6560	[7280, 1408]
414	[801, 802]	2463	[3677, 1208]	4512	[5766, 1048]	6561	[7281, 6305]
415	[803, 804]	2464	[3087, 447]	4513	[5767, 4158]	6562	[7282, 4078]
416	[805, 806]	2465	[3808, 3531]	4514	[1223, 3899]	6563	[3756, 1395]
417	[807, 808]	2466	[3809, 3810]	4515	[5768, 5769]	6564	[7283, 5621]
418	[809, 810]	2467	[3811, 3747]	4516	[1043, 5770]	6565	[7284, 7285]
419	[811, 177]	2468	[3812, 1279]	4517	[5771, 5772]	6566	[7286, 3050]
420	[812, 179]	2469	[3813, 1113]	4518	[5773, 1439]	6567	[7287, 287]
421	[813, 814]	2470	[3814, 3305]	4519	[3574, 4176]	6568	[7288, 3811]
422	[815, 816]	2471	[3721, 1086]	4520	[5774, 1220]	6569	[7289, 3474]
423	[817, 818]	2472	[3815, 3816]	4521	[112, 2863]	6570	[7290, 3867]
424	[819, 820]	2473	[3817, 1339]	4522	[1420, 3216]	6571	[7291, 3345]
425	[821, 822]	2474	[970, 1273]	4523	[5775, 1054]	6572	[2876, 3723]
426	[823, 824]	2475	[3818, 3819]	4524	[390, 1138]	6573	[1667, 1075]
427	[825, 694]	2476	[3820, 3466]	4525	[3365, 3068]	6574	[7292, 3720]
428	[826, 827]	2477	[1372, 3014]	4526	[5776, 370]	6575	[7293, 7294]
429	[828, 829]	2478	[3821, 3402]	4527	[5712, 308]	6576	[7295, 5975]
430	[830, 831]	2479	[3822, 988]	4528	[5777, 3389]	6577	[3224, 3457]
431	[832, 833]	2480	[2949, 1439]	4529	[5778, 5779]	6578	[7296, 1616]
432	[834, 835]	2481	[332, 3429]	4530	[5780, 3070]	6579	[7297, 3643]
433	[836, 837]	2482	[3823, 3050]	4531	[5781, 3988]	6580	[7298, 3878]
434	[838, 562]	2483	[3824, 1703]	4532	[5782, 4007]	6581	[7299, 3150]
435	[839, 840]	2484	[3825, 1302]	4533	[5783, 5724]	6582	[7300, 1481]
436	[841, 842]	2485	[2844, 3826]	4534	[5784, 2987]	6583	[7301, 5500]
437	[151, 843]	2486	[3827, 3828]	4535	[5624, 1672]	6584	[7302, 971]
438	[844, 845]	2487	[3679, 3829]	4536	[3904, 5785]	6585	[122, 4061]
439	[846, 847]	2488	[3830, 3434]	4537	[5786, 1600]	6586	[7303, 5655]
440	[848, 849]	2489	[3831, 3832]	4538	[5787, 3515]	6587	[7304, 3583]
441	[850, 851]	2490	[1387, 3833]	4539	[468, 1162]	6588	[7305, 1428]
442	[852, 853]	2491	[3834, 3737]	4540	[5788, 5595]	6589	[7306, 1675]
443	[703, 807]	2492	[3835, 3109]	4541	[5686, 3960]	6590	[7307, 6190]
444	[854, 855]	2493	[3836, 3837]	4542	[5789, 998]	6591	[6325, 1622]
445	[856, 857]	2494	[3838, 3839]	4543	[5790, 110]	6592	[7308, 5720]
446	[858, 859]	2495	[3840, 1034]	4544	[1485, 5620]	6593	[7309, 3876]
447	[860, 861]	2496	[3841, 282]	4545	[114, 3620]	6594	[7310, 989]
448	[862, 863]	2497	[3842, 3843]	4546	[5791, 1393]	6595	[398, 1136]
449	[864, 865]	2498	[3844, 1295]	4547	[5792, 1636]	6596	[1398, 5985]
450	[866, 867]	2499	[3645, 3845]	4548	[5732, 5591]	6597	[1551, 342]
451	[868, 869]	2500	[1635, 360]	4549	[3420, 5793]	6598	[3902, 6113]
452	[870, 871]	2501	[3846, 3847]	4550	[5794, 5706]	6599	[6074, 7311]

453	[872, 873]	2502	[3848, 403]	4551	[5795, 5785]	6600	[7312, 3452]
454	[874, 875]	2503	[253, 3849]	4552	[5796, 1598]	6601	[7313, 3955]
455	[194, 876]	2504	[3850, 3851]	4553	[1356, 1151]	6602	[7314, 1231]
456	[877, 878]	2505	[3852, 1611]	4554	[5797, 1535]	6603	[7315, 1099]
457	[867, 879]	2506	[3853, 3798]	4555	[5798, 3060]	6604	[1316, 971]
458	[880, 881]	2507	[3854, 3733]	4556	[3912, 3396]	6605	[7316, 1700]
459	[882, 883]	2508	[3855, 3856]	4557	[5799, 1263]	6606	[1248, 1620]
460	[884, 885]	2509	[3156, 3857]	4558	[5800, 5801]	6607	[948, 1190]
461	[886, 616]	2510	[3858, 3859]	4559	[5802, 5803]	6608	[7317, 2972]
462	[887, 654]	2511	[3860, 3861]	4560	[5804, 1484]	6609	[5899, 85]
463	[527, 888]	2512	[3862, 3585]	4561	[3053, 4160]	6610	[6130, 3867]
464	[724, 889]	2513	[1383, 3813]	4562	[3402, 1077]	6611	[7318, 3303]
465	[890, 891]	2514	[3863, 3864]	4563	[5805, 5791]	6612	[7319, 1592]
466	[892, 893]	2515	[3619, 3865]	4564	[3098, 3836]	6613	[7320, 3265]
467	[894, 895]	2516	[1270, 3866]	4565	[5806, 2871]	6614	[7321, 1206]
468	[896, 897]	2517	[3867, 3868]	4566	[5488, 2982]	6615	[124, 3480]
469	[898, 150]	2518	[3869, 3666]	4567	[2973, 101]	6616	[5888, 3711]
470	[899, 237]	2519	[3870, 3339]	4568	[5807, 2866]	6617	[3660, 3005]
471	[900, 901]	2520	[1308, 3871]	4569	[4040, 1454]	6618	[7322, 6410]
472	[902, 903]	2521	[3260, 3872]	4570	[5808, 4031]	6619	[7323, 5665]
473	[904, 905]	2522	[3873, 987]	4571	[5809, 4105]	6620	[354, 6186]
474	[906, 907]	2523	[3874, 3875]	4572	[5810, 1266]	6621	[7324, 1334]
475	[908, 909]	2524	[3876, 3847]	4573	[1112, 3264]	6622	[1063, 7294]
476	[910, 911]	2525	[3877, 3878]	4574	[5811, 2979]	6623	[7325, 2846]
477	[912, 723]	2526	[3879, 3880]	4575	[5812, 5813]	6624	[7326, 3607]
478	[913, 914]	2527	[3881, 1576]	4576	[5814, 5662]	6625	[7327, 965]
479	[915, 916]	2528	[3882, 1578]	4577	[5815, 3403]	6626	[7328, 7329]
480	[917, 918]	2529	[3215, 3874]	4578	[5816, 5748]	6627	[3073, 1453]
481	[919, 526]	2530	[3883, 3567]	4579	[5817, 397]	6628	[3746, 1480]
482	[920, 921]	2531	[3884, 3819]	4580	[1215, 1415]	6629	[7330, 3813]
483	[251, 922]	2532	[3885, 3886]	4581	[5818, 5500]	6630	[7331, 2929]
484	[923, 924]	2533	[3887, 3888]	4582	[5819, 1143]	6631	[7332, 3640]
485	[925, 926]	2534	[3889, 3408]	4583	[3481, 3291]	6632	[1246, 1233]
486	[927, 928]	2535	[3603, 3890]	4584	[5820, 5821]	6633	[4084, 991]
487	[929, 930]	2536	[3891, 3892]	4585	[5822, 3591]	6634	[3300, 1429]
488	[931, 878]	2537	[3893, 3253]	4586	[5823, 3473]	6635	[2908, 1224]
489	[932, 933]	2538	[1680, 3741]	4587	[5824, 5722]	6636	[7333, 3502]
490	[934, 935]	2539	[3894, 3380]	4588	[5779, 5825]	6637	[6328, 6044]
491	[936, 671]	2540	[3895, 3364]	4589	[5826, 1560]	6638	[7334, 3939]
492	[937, 938]	2541	[3896, 3897]	4590	[3986, 3651]	6639	[7335, 5885]
493	[939, 940]	2542	[1037, 1068]	4591	[5827, 1659]	6640	[3551, 5854]
494	[941, 942]	2543	[3898, 1029]	4592	[5828, 2989]	6641	[478, 3289]
495	[943, 944]	2544	[3899, 3900]	4593	[3649, 2947]	6642	[7336, 3770]
496	[945, 946]	2545	[3901, 1319]	4594	[5829, 1448]	6643	[7337, 439]

497	[947, 948]	2546	[1643, 3902]	4595	[1184, 5736]	6644	[3691, 3146]
498	[949, 950]	2547	[3903, 3904]	4596	[5769, 5830]	6645	[3949, 3412]
499	[951, 466]	2548	[3905, 3906]	4597	[5831, 1593]	6646	[7338, 2935]
500	[952, 953]	2549	[3907, 3094]	4598	[3960, 1362]	6647	[5698, 1098]
501	[954, 955]	2550	[1359, 961]	4599	[5832, 5833]	6648	[7339, 6093]
502	[956, 957]	2551	[1555, 106]	4600	[5834, 1466]	6649	[7340, 6301]
503	[958, 959]	2552	[299, 1148]	4601	[3168, 4065]	6650	[1418, 5617]
504	[960, 961]	2553	[1049, 437]	4602	[1069, 3859]	6651	[3983, 2910]
505	[961, 962]	2554	[3908, 3805]	4603	[5835, 4076]	6652	[3925, 293]
506	[963, 964]	2555	[3909, 3910]	4604	[2865, 5836]	6653	[5685, 3351]
507	[965, 966]	2556	[3911, 3912]	4605	[5837, 5838]	6654	[1041, 3751]
508	[967, 968]	2557	[3646, 3770]	4606	[1281, 5839]	6655	[6277, 3915]
509	[969, 970]	2558	[3807, 1682]	4607	[5840, 389]	6656	[7341, 486]
510	[971, 972]	2559	[3913, 2848]	4608	[5841, 5842]	6657	[7342, 3099]
511	[406, 973]	2560	[3914, 1511]	4609	[3042, 5713]	6658	[7343, 6320]
512	[974, 975]	2561	[1694, 3003]	4610	[5843, 3407]	6659	[7344, 6029]
513	[976, 977]	2562	[3915, 1694]	4611	[5844, 1187]	6660	[7345, 1425]
514	[978, 979]	2563	[3916, 3917]	4612	[5845, 5846]	6661	[7346, 5806]
515	[20, 980]	2564	[3918, 3919]	4613	[5847, 3789]	6662	[7347, 267]
516	[981, 982]	2565	[3920, 3921]	4614	[1562, 5848]	6663	[3971, 5521]
517	[983, 984]	2566	[3293, 1295]	4615	[5849, 5850]	6664	[7348, 4057]
518	[431, 985]	2567	[3922, 995]	4616	[5851, 3935]	6665	[1579, 1689]
519	[986, 987]	2568	[3923, 953]	4617	[1278, 5852]	6666	[7349, 5770]
520	[988, 989]	2569	[3375, 3924]	4618	[5633, 1676]	6667	[7350, 3769]
521	[990, 991]	2570	[366, 3656]	4619	[3800, 3877]	6668	[7351, 5686]
522	[992, 993]	2571	[3092, 3925]	4620	[5853, 3292]	6669	[7352, 475]
523	[994, 995]	2572	[3845, 3564]	4621	[3213, 3276]	6670	[1093, 1581]
524	[996, 997]	2573	[3926, 3927]	4622	[5854, 5855]	6671	[7353, 3128]
525	[998, 999]	2574	[3928, 1277]	4623	[118, 5856]	6672	[7354, 381]
526	[1000, 1001]	2575	[3929, 3930]	4624	[3998, 5857]	6673	[7355, 6237]
527	[1002, 1003]	2576	[3931, 3476]	4625	[3012, 3430]	6674	[7356, 2865]
528	[1004, 1005]	2577	[86, 2894]	4626	[3712, 5791]	6675	[6071, 6311]
529	[1006, 1007]	2578	[3932, 3530]	4627	[3045, 290]	6676	[6249, 459]
530	[1008, 1009]	2579	[3933, 314]	4628	[1014, 984]	6677	[3535, 5615]
531	[1010, 1011]	2580	[3934, 3368]	4629	[5858, 5859]	6678	[7357, 4193]
532	[1012, 1013]	2581	[3935, 1265]	4630	[5860, 3051]	6679	[7358, 3212]
533	[312, 1014]	2582	[3936, 3937]	4631	[5861, 1454]	6680	[1346, 2957]
534	[1015, 1016]	2583	[3938, 1447]	4632	[5862, 1378]	6681	[5502, 1559]
535	[1017, 1018]	2584	[3897, 3920]	4633	[5863, 3762]	6682	[3066, 7359]
536	[1019, 1020]	2585	[1563, 3939]	4634	[5864, 3851]	6683	[7360, 335]
537	[1021, 1022]	2586	[3940, 3941]	4635	[5865, 3981]	6684	[7361, 1205]
538	[1023, 1024]	2587	[3295, 3942]	4636	[3643, 2855]	6685	[7362, 3407]
539	[1025, 1026]	2588	[3943, 3944]	4637	[5866, 2988]	6686	[7363, 1252]
540	[1027, 1028]	2589	[3945, 3374]	4638	[5867, 404]	6687	[7364, 1476]

541	[463, 1029]	2590	[3946, 3947]	4639	[5868, 1462]	6688	[7365, 1145]
542	[1030, 109]	2591	[3310, 421]	4640	[5869, 4021]	6689	[3193, 3379]
543	[1031, 1032]	2592	[3948, 3949]	4641	[5870, 1013]	6690	[7366, 6303]
544	[1033, 1034]	2593	[1605, 1450]	4642	[5871, 478]	6691	[7367, 6064]
545	[277, 1035]	2594	[3950, 275]	4643	[5872, 3747]	6692	[7368, 1416]
546	[1036, 1037]	2595	[3951, 3952]	4644	[5873, 75]	6693	[1303, 3530]
547	[1038, 1039]	2596	[3662, 1625]	4645	[5874, 4066]	6694	[7369, 3210]
548	[1040, 1041]	2597	[3953, 3954]	4646	[5875, 374]	6695	[7370, 5732]
549	[1042, 1043]	2598	[3432, 3955]	4647	[5876, 1194]	6696	[7371, 6337]
550	[1044, 375]	2599	[3956, 2945]	4648	[3479, 1143]	6697	[7372, 980]
551	[1045, 994]	2600	[3742, 3957]	4649	[5877, 2957]	6698	[330, 3445]
552	[1046, 1047]	2601	[3958, 1159]	4650	[5878, 369]	6699	[7373, 3054]
553	[1048, 1049]	2602	[3959, 3960]	4651	[5879, 969]	6700	[7374, 1095]
554	[1050, 1051]	2603	[3961, 3962]	4652	[3016, 1446]	6701	[5720, 4032]
555	[1052, 1053]	2604	[3039, 3963]	4653	[5880, 5881]	6702	[7375, 487]
556	[1054, 1055]	2605	[3964, 3965]	4654	[5882, 1207]	6703	[7376, 297]
557	[1056, 1057]	2606	[3966, 3501]	4655	[5883, 3185]	6704	[3533, 3733]
558	[1058, 1059]	2607	[3529, 3967]	4656	[5884, 1010]	6705	[3711, 3598]
559	[1060, 1061]	2608	[3968, 1498]	4657	[3989, 5885]	6706	[7377, 371]
560	[1062, 23]	2609	[402, 3775]	4658	[3531, 3043]	6707	[7378, 1450]
561	[1055, 1063]	2610	[3969, 70]	4659	[5719, 3034]	6708	[3861, 296]
562	[1064, 1065]	2611	[3970, 3971]	4660	[5731, 3163]	6709	[7379, 1269]
563	[1066, 1067]	2612	[977, 3096]	4661	[5886, 3613]	6710	[3404, 3243]
564	[1068, 1069]	2613	[3972, 352]	4662	[5887, 5888]	6711	[1672, 1321]
565	[1070, 1071]	2614	[1436, 3745]	4663	[5889, 1000]	6712	[7380, 321]
566	[416, 1072]	2615	[3973, 3974]	4664	[5890, 3084]	6713	[2892, 1318]
567	[1073, 1074]	2616	[3345, 2922]	4665	[3610, 1009]	6714	[980, 1498]
568	[1075, 1076]	2617	[3975, 3976]	4666	[5891, 5892]	6715	[3284, 4193]
569	[1077, 1078]	2618	[1430, 451]	4667	[4015, 5796]	6716	[7381, 1004]
570	[1079, 1080]	2619	[3695, 3977]	4668	[5893, 3778]	6717	[6224, 3080]
571	[1081, 26]	2620	[1691, 3978]	4669	[3504, 5894]	6718	[3129, 1277]
572	[1082, 1083]	2621	[1259, 3979]	4670	[5895, 5896]	6719	[7382, 1372]
573	[1084, 1085]	2622	[3980, 3981]	4671	[3238, 5897]	6720	[7383, 3456]
574	[4, 1004]	2623	[3982, 3076]	4672	[5898, 957]	6721	[7384, 5639]
575	[1086, 1087]	2624	[2882, 3983]	4673	[3436, 5899]	6722	[7385, 3918]
576	[1088, 1089]	2625	[3680, 3984]	4674	[5900, 5892]	6723	[1379, 4141]
577	[1090, 1091]	2626	[3332, 3449]	4675	[4108, 1152]	6724	[7386, 3649]
578	[126, 253]	2627	[3985, 3986]	4676	[966, 1300]	6725	[7387, 5707]
579	[1092, 1093]	2628	[3987, 3786]	4677	[5901, 5902]	6726	[7388, 976]
580	[1094, 1095]	2629	[382, 3988]	4678	[5903, 3904]	6727	[7389, 3106]
581	[1096, 1097]	2630	[3563, 3989]	4679	[5904, 5803]	6728	[7390, 1410]
582	[1098, 1099]	2631	[3990, 3991]	4680	[5905, 1293]	6729	[7391, 4024]
583	[1100, 1101]	2632	[3992, 1440]	4681	[5906, 5907]	6730	[5793, 7329]
584	[433, 1102]	2633	[3819, 3993]	4682	[5908, 2954]	6731	[7392, 3703]

585	[1103, 1104]	2634	[972, 1305]	4683	[5521, 3714]	6732	[1358, 2917]
586	[1105, 78]	2635	[3994, 3091]	4684	[5909, 4032]	6733	[7393, 3920]
587	[1106, 1107]	2636	[3769, 3995]	4685	[5910, 5911]	6734	[3669, 1553]
588	[1108, 1109]	2637	[3340, 3197]	4686	[5912, 3342]	6735	[7394, 3516]
589	[110, 1110]	2638	[3996, 291]	4687	[5913, 5735]	6736	[3494, 1050]
590	[1111, 1112]	2639	[3510, 1096]	4688	[5571, 5914]	6737	[7395, 3083]
591	[1113, 1114]	2640	[3997, 3998]	4689	[5915, 3712]	6738	[7396, 5897]
592	[1115, 1044]	2641	[3999, 4000]	4690	[5916, 5917]	6739	[7397, 1077]
593	[1116, 1117]	2642	[1468, 4001]	4691	[5918, 1434]	6740	[1262, 1313]
594	[1118, 1119]	2643	[4002, 1516]	4692	[5919, 3020]	6741	[6382, 1631]
595	[1120, 1121]	2644	[4003, 1643]	4693	[5856, 5920]	6742	[7398, 6088]
596	[1122, 1123]	2645	[4004, 3551]	4694	[5921, 5922]	6743	[7399, 3276]
597	[289, 1124]	2646	[3379, 4005]	4695	[5923, 451]	6744	[255, 6253]
598	[1125, 1126]	2647	[4006, 457]	4696	[5924, 3484]	6745	[6464, 316]
599	[1127, 1128]	2648	[1264, 4007]	4697	[5925, 3809]	6746	[7400, 1139]
600	[1129, 1130]	2649	[4008, 4009]	4698	[5926, 5772]	6747	[7401, 3916]
601	[1131, 1132]	2650	[4010, 1083]	4699	[5927, 1264]	6748	[7402, 5838]
602	[1133, 1134]	2651	[982, 1512]	4700	[5928, 327]	6749	[7403, 2868]
603	[1135, 1136]	2652	[3939, 4011]	4701	[1352, 1025]	6750	[959, 5992]
604	[1137, 1138]	2653	[4012, 4013]	4702	[5929, 5749]	6751	[5660, 1031]
605	[1139, 1140]	2654	[4014, 3918]	4703	[5505, 16]	6752	[7404, 1350]
606	[1141, 1142]	2655	[3005, 3269]	4704	[3296, 3167]	6753	[7405, 3499]
607	[1143, 1144]	2656	[3783, 4015]	4705	[5930, 1628]	6754	[3675, 3552]
608	[1145, 1146]	2657	[4016, 1389]	4706	[5931, 3447]	6755	[7406, 1607]
609	[1147, 1148]	2658	[4017, 1375]	4707	[5932, 3164]	6756	[3693, 1268]
610	[1149, 77]	2659	[4018, 4019]	4708	[5933, 3550]	6757	[4061, 5555]
611	[1150, 1151]	2660	[4020, 4021]	4709	[1639, 3814]	6758	[7407, 3161]
612	[1152, 1153]	2661	[4022, 3029]	4710	[5934, 5836]	6759	[7408, 3297]
613	[1154, 1155]	2662	[4023, 3069]	4711	[3334, 3809]	6760	[5515, 1104]
614	[1156, 1157]	2663	[3027, 4024]	4712	[5935, 5743]	6761	[7409, 3001]
615	[408, 1158]	2664	[4025, 4026]	4713	[5936, 1121]	6762	[7410, 6321]
616	[1159, 1160]	2665	[4027, 1512]	4714	[5937, 5938]	6763	[5601, 4009]
617	[1161, 1162]	2666	[4028, 4029]	4715	[5939, 279]	6764	[3606, 4110]
618	[1163, 1164]	2667	[1586, 3123]	4716	[5940, 3484]	6765	[7411, 3213]
619	[1165, 1166]	2668	[4030, 2991]	4717	[5941, 1178]	6766	[7412, 3857]
620	[1167, 1168]	2669	[4031, 1048]	4718	[5543, 5515]	6767	[275, 3166]
621	[1169, 1170]	2670	[4032, 371]	4719	[259, 5942]	6768	[7413, 5996]
622	[1171, 1172]	2671	[4033, 4034]	4720	[5943, 5944]	6769	[3232, 7414]
623	[1173, 1174]	2672	[3967, 4035]	4721	[5945, 1156]	6770	[3525, 1107]
624	[1175, 1176]	2673	[4036, 1356]	4722	[5946, 1426]	6771	[7415, 387]
625	[1177, 1178]	2674	[1516, 3294]	4723	[5947, 339]	6772	[7416, 2976]
626	[1179, 1180]	2675	[4037, 1131]	4724	[5948, 1396]	6773	[7417, 3057]
627	[1181, 1182]	2676	[4038, 455]	4725	[5949, 3307]	6774	[5662, 3725]
628	[1183, 1184]	2677	[4039, 4040]	4726	[3829, 3128]	6775	[7418, 6146]

629	[1185, 1186]	2678	[4041, 2904]	4727	[5894, 5950]	6776	[1102, 3804]
630	[1187, 1188]	2679	[4042, 1117]	4728	[5951, 5952]	6777	[6045, 1046]
631	[1189, 1190]	2680	[4043, 3424]	4729	[5953, 5920]	6778	[7419, 3089]
632	[1191, 1192]	2681	[4044, 2903]	4730	[5954, 3794]	6779	[3161, 2985]
633	[1193, 1194]	2682	[4045, 407]	4731	[5955, 4017]	6780	[7420, 3595]
634	[1195, 1196]	2683	[4046, 1085]	4732	[5956, 1688]	6781	[7421, 3039]
635	[1197, 1198]	2684	[4047, 3628]	4733	[5957, 5522]	6782	[7422, 1415]
636	[1199, 1200]	2685	[4048, 4049]	4734	[3589, 1576]	6783	[3947, 3885]
637	[1201, 1202]	2686	[4050, 1219]	4735	[5958, 3866]	6784	[7423, 3569]
638	[1203, 1204]	2687	[4051, 1626]	4736	[5959, 5960]	6785	[7424, 5694]
639	[1124, 1205]	2688	[4052, 365]	4737	[5961, 5962]	6786	[1230, 3539]
640	[1206, 1207]	2689	[3615, 3033]	4738	[5963, 89]	6787	[3384, 6419]
641	[1208, 394]	2690	[4053, 3400]	4739	[5964, 3233]	6788	[1250, 3386]
642	[88, 1209]	2691	[4054, 3999]	4740	[3243, 1186]	6789	[3085, 3307]
643	[1210, 1211]	2692	[4055, 4056]	4741	[5965, 443]	6790	[92, 2831]
644	[1212, 1213]	2693	[4057, 4058]	4742	[5966, 4127]	6791	[7425, 3140]
645	[1214, 1215]	2694	[3978, 1642]	4743	[3794, 5967]	6792	[7426, 3963]
646	[1216, 1217]	2695	[4059, 1565]	4744	[4087, 5907]	6793	[3839, 3022]
647	[1218, 1219]	2696	[4060, 4061]	4745	[5968, 5969]	6794	[6282, 3490]
648	[1220, 1221]	2697	[3995, 4062]	4746	[74, 3807]	6795	[1381, 4151]
649	[1222, 1223]	2698	[1475, 4063]	4747	[2840, 1406]	6796	[7427, 3404]
650	[1224, 1225]	2699	[1472, 1545]	4748	[2863, 1408]	6797	[1126, 2968]
651	[1226, 1201]	2700	[4064, 4065]	4749	[1266, 5846]	6798	[7428, 1290]
652	[1227, 1228]	2701	[4066, 3460]	4750	[3924, 3292]	6799	[7429, 2990]
653	[1229, 1230]	2702	[4067, 4068]	4751	[5970, 1156]	6800	[7430, 334]
654	[464, 1231]	2703	[4069, 4070]	4752	[100, 3642]	6801	[7431, 2849]
655	[984, 1232]	2704	[3107, 1467]	4753	[5971, 3430]	6802	[7432, 3885]
656	[1233, 1234]	2705	[4071, 2925]	4754	[5972, 5894]	6803	[7433, 1546]
657	[1235, 1236]	2706	[4072, 1321]	4755	[1481, 4017]	6804	[7434, 1399]
658	[1237, 1238]	2707	[4073, 4074]	4756	[5973, 5830]	6805	[7435, 3892]
659	[1239, 300]	2708	[4075, 3367]	4757	[5974, 5780]	6806	[495, 3816]
660	[1240, 1241]	2709	[4076, 4077]	4758	[1492, 5900]	6807	[7436, 3353]
661	[1242, 1243]	2710	[4078, 4079]	4759	[1188, 3644]	6808	[7437, 1096]
662	[1244, 1093]	2711	[3751, 3823]	4760	[5975, 3451]	6809	[7438, 4128]
663	[1245, 1246]	2712	[4080, 4081]	4761	[3135, 5835]	6810	[7439, 1409]
664	[1247, 1248]	2713	[4082, 358]	4762	[5976, 3074]	6811	[7440, 312]
665	[1249, 1250]	2714	[4019, 4083]	4763	[5977, 5978]	6812	[7441, 1417]
666	[1251, 338]	2715	[3499, 4084]	4764	[4121, 1489]	6813	[7442, 5690]
667	[476, 1252]	2716	[1593, 3631]	4765	[1072, 5979]	6814	[303, 1079]
668	[1253, 1254]	2717	[4085, 3143]	4766	[5980, 3659]	6815	[7443, 4022]
669	[1255, 29]	2718	[997, 3560]	4767	[5981, 3471]	6816	[7444, 3072]
670	[1256, 1257]	2719	[4086, 4087]	4768	[4077, 5539]	6817	[7445, 5637]
671	[1258, 1259]	2720	[3890, 277]	4769	[5982, 472]	6818	[7446, 6236]
672	[1260, 1196]	2721	[1228, 3862]	4770	[5983, 3746]	6819	[7447, 1212]

673	[1261, 1262]	2722	[4088, 1383]	4771	[5984, 1227]	6820	[7448, 1263]
674	[1263, 1264]	2723	[4089, 3196]	4772	[5985, 5986]	6821	[7449, 1202]
675	[1034, 1187]	2724	[4090, 2882]	4773	[4178, 4026]	6822	[7450, 309]
676	[1265, 1266]	2725	[4091, 431]	4774	[5987, 1153]	6823	[7451, 3768]
677	[1267, 1268]	2726	[322, 3330]	4775	[3272, 3562]	6824	[7452, 5818]
678	[1269, 1270]	2727	[3653, 3423]	4776	[5988, 3163]	6825	[6053, 5799]
679	[1271, 1272]	2728	[4092, 3485]	4777	[5989, 3990]	6826	[7453, 1457]
680	[1273, 1274]	2729	[4093, 379]	4778	[5990, 3409]	6827	[3178, 3115]
681	[1275, 1276]	2730	[1500, 3717]	4779	[1104, 3935]	6828	[7359, 1116]
682	[1277, 1278]	2731	[4094, 4095]	4780	[5991, 5992]	6829	[7454, 3796]
683	[324, 1279]	2732	[4096, 1296]	4781	[5993, 3621]	6830	[5555, 3986]
684	[1280, 1281]	2733	[4097, 1251]	4782	[5994, 102]	6831	[1174, 3150]
685	[1282, 1283]	2734	[1338, 467]	4783	[5995, 281]	6832	[7455, 3856]
686	[1284, 1285]	2735	[4098, 494]	4784	[2938, 5996]	6833	[7456, 3200]
687	[267, 462]	2736	[987, 4099]	4785	[993, 5596]	6834	[7457, 3533]
688	[1286, 72]	2737	[4100, 4101]	4786	[5997, 3449]	6835	[7458, 952]
689	[1287, 1288]	2738	[4102, 1116]	4787	[5998, 1064]	6836	[5885, 1505]
690	[1289, 1290]	2739	[4103, 1435]	4788	[5999, 1291]	6837	[7459, 1566]
691	[1291, 1292]	2740	[4104, 4105]	4789	[5821, 3880]	6838	[7460, 1201]
692	[1087, 1293]	2741	[4106, 1260]	4790	[1238, 3055]	6839	[1024, 3697]
693	[1089, 1294]	2742	[4107, 4108]	4791	[6000, 420]	6840	[7461, 488]
694	[1295, 1021]	2743	[4109, 4110]	4792	[6001, 1375]	6841	[7462, 3354]
695	[1296, 1297]	2744	[4065, 2911]	4793	[6002, 1343]	6842	[7463, 97]
696	[1298, 1299]	2745	[4111, 2944]	4794	[6003, 1079]	6843	[989, 3861]
697	[1300, 1301]	2746	[4112, 4113]	4795	[6004, 3571]	6844	[3444, 5531]
698	[1302, 1303]	2747	[4114, 3669]	4796	[6005, 6006]	6845	[7464, 3601]
699	[1304, 1305]	2748	[3778, 3372]	4797	[6007, 3924]	6846	[7465, 476]
700	[1306, 1307]	2749	[4115, 3141]	4798	[3716, 4182]	6847	[1099, 1139]
701	[995, 1308]	2750	[4116, 979]	4799	[5688, 3500]	6848	[1241, 2996]
702	[1309, 1310]	2751	[4117, 3983]	4800	[6008, 3802]	6849	[1243, 3326]
703	[1311, 1312]	2752	[4118, 1214]	4801	[3963, 1179]	6850	[6080, 6464]
704	[1313, 1314]	2753	[4119, 1172]	4802	[1424, 3172]	6851	[326, 419]
705	[1315, 1316]	2754	[3878, 3498]	4803	[4125, 5609]	6852	[7466, 3477]
706	[1317, 1318]	2755	[4120, 4121]	4804	[3976, 5975]	6853	[5604, 5712]
707	[1319, 1320]	2756	[414, 4122]	4805	[6009, 6010]	6854	[7467, 5967]
708	[1321, 1322]	2757	[1583, 3364]	4806	[5850, 3116]	6855	[5486, 7468]
709	[1323, 1324]	2758	[4123, 121]	4807	[5735, 3106]	6856	[6366, 3980]
710	[1325, 1326]	2759	[2888, 1377]	4808	[6011, 4074]	6857	[7469, 3436]
711	[1327, 1328]	2760	[4124, 3634]	4809	[6012, 5511]	6858	[7470, 3877]
712	[1329, 1330]	2761	[3682, 3703]	4810	[6013, 1605]	6859	[1525, 460]
713	[1331, 1332]	2762	[3678, 4125]	4811	[6014, 6015]	6860	[7471, 1001]
714	[1333, 1334]	2763	[3981, 3964]	4812	[6016, 2927]	6861	[7472, 1352]
715	[1335, 1336]	2764	[4126, 3284]	4813	[6017, 3027]	6862	[7473, 491]
716	[1337, 1338]	2765	[1123, 4127]	4814	[6018, 6019]	6863	[7474, 2840]

717	[305, 976]	2766	[4128, 2960]	4815	[6020, 6021]	6864	[7475, 4011]
718	[1339, 1340]	2767	[4129, 4130]	4816	[6022, 1066]	6865	[7476, 2992]
719	[1341, 1342]	2768	[4131, 4132]	4817	[6019, 1302]	6866	[7477, 1274]
720	[1343, 1344]	2769	[4133, 3949]	4818	[6023, 385]	6867	[1204, 3929]
721	[1345, 1346]	2770	[4134, 2853]	4819	[6024, 5855]	6868	[7478, 3310]
722	[1347, 1348]	2771	[4135, 2924]	4820	[5513, 3695]	6869	[7479, 5941]
723	[1349, 1350]	2772	[4136, 3375]	4821	[6025, 3085]	6870	[7480, 1022]
724	[1351, 1352]	2773	[493, 3947]	4822	[6026, 3448]	6871	[3623, 3791]
725	[1353, 1354]	2774	[4137, 3614]	4823	[973, 3229]	6872	[3361, 3442]
726	[1355, 1356]	2775	[4138, 4139]	4824	[6027, 5607]	6873	[7481, 3490]
727	[1357, 1358]	2776	[4140, 4141]	4825	[6028, 3534]	6874	[7482, 2983]
728	[1136, 1359]	2777	[4142, 1030]	4826	[5763, 6029]	6875	[1207, 407]
729	[1360, 1361]	2778	[4143, 4005]	4827	[4007, 1351]	6876	[7483, 3884]
730	[1362, 412]	2779	[4144, 1477]	4828	[6030, 6031]	6877	[7484, 3919]
731	[1219, 1363]	2780	[4145, 2926]	4829	[6032, 313]	6878	[7485, 2906]
732	[1364, 1023]	2781	[4146, 3948]	4830	[6033, 3603]	6879	[7486, 5591]
733	[1365, 1366]	2782	[4147, 3179]	4831	[6034, 1367]	6880	[7487, 3900]
734	[1367, 1368]	2783	[4148, 4149]	4832	[6035, 3532]	6881	[7488, 1363]
735	[1369, 1370]	2784	[257, 1588]	4833	[1636, 5626]	6882	[7489, 3525]
736	[1371, 1372]	2785	[4150, 3349]	4834	[6036, 3206]	6883	[7490, 1645]
737	[1373, 1374]	2786	[4151, 3884]	4835	[3489, 3328]	6884	[7491, 357]
738	[1375, 1376]	2787	[4152, 3563]	4836	[1257, 6037]	6885	[7492, 4182]
739	[1377, 1378]	2788	[4153, 4054]	4837	[3347, 387]	6886	[7493, 3458]
740	[1172, 1379]	2789	[3664, 1347]	4838	[5992, 1367]	6887	[3244, 1245]
741	[1380, 1381]	2790	[2970, 1291]	4839	[6038, 5837]	6888	[7494, 90]
742	[1382, 1383]	2791	[4154, 3655]	4840	[6039, 6040]	6889	[7495, 3989]
743	[1384, 1385]	2792	[4155, 4156]	4841	[6041, 3102]	6890	[5825, 1286]
744	[1386, 1387]	2793	[4157, 286]	4842	[6042, 1092]	6891	[7496, 1276]
745	[1388, 1389]	2794	[4158, 1230]	4843	[3993, 3795]	6892	[7497, 5736]
746	[1390, 1391]	2795	[4159, 4160]	4844	[3408, 5859]	6893	[7498, 3791]
747	[1392, 1393]	2796	[4161, 3320]	4845	[6043, 6044]	6894	[3487, 3139]
748	[1394, 294]	2797	[106, 3383]	4846	[3658, 5833]	6895	[7499, 3176]
749	[1395, 1396]	2798	[4162, 3030]	4847	[3372, 6045]	6896	[2873, 479]
750	[1397, 1398]	2799	[4163, 3977]	4848	[1196, 6046]	6897	[7500, 3381]
751	[1301, 1399]	2800	[4164, 3631]	4849	[5922, 5636]	6898	[7501, 1183]
752	[1400, 1401]	2801	[3886, 330]	4850	[6047, 3506]	6899	[2880, 111]
753	[1402, 1403]	2802	[4165, 3065]	4851	[2846, 2937]	6900	[6186, 3153]
754	[1404, 1405]	2803	[4166, 2979]	4852	[1368, 260]	6901	[4029, 5850]
755	[1406, 1407]	2804	[3270, 4167]	4853	[6048, 6049]	6902	[3516, 1670]
756	[1408, 1409]	2805	[3810, 4168]	4854	[6050, 958]	6903	[7502, 2971]
757	[482, 1410]	2806	[4169, 3585]	4855	[6051, 2976]	6904	[7503, 6182]
758	[1411, 1412]	2807	[3122, 4170]	4856	[6052, 6053]	6905	[3440, 948]
759	[1413, 1414]	2808	[4171, 4172]	4857	[3452, 3203]	6906	[7504, 1023]
760	[1415, 1416]	2809	[4173, 4174]	4858	[6054, 3914]	6907	[1153, 3300]

761	[1417, 1418]	2810	[1700, 1679]	4859	[6055, 1027]	6908	[3427, 6167]
762	[1419, 1420]	2811	[4175, 4176]	4860	[6056, 5655]	6909	[7505, 3194]
763	[1421, 1364]	2812	[3202, 4177]	4861	[6057, 1100]	6910	[7506, 3201]
764	[66, 1422]	2813	[3944, 4178]	4862	[6058, 3439]	6911	[7507, 3679]
765	[1423, 1424]	2814	[1022, 3059]	4863	[6059, 6060]	6912	[7508, 336]
766	[1425, 1426]	2815	[4179, 1583]	4864	[3737, 2971]	6913	[6410, 3607]
767	[1427, 1428]	2816	[4180, 1469]	4865	[955, 5960]	6914	[78, 6197]
768	[1429, 1430]	2817	[4181, 3964]	4866	[6061, 5700]	6915	[7509, 3146]
769	[1431, 1432]	2818	[4182, 3869]	4867	[6062, 3520]	6916	[7510, 1402]
770	[1433, 946]	2819	[4183, 1444]	4868	[5803, 5748]	6917	[3753, 6121]
771	[1434, 1435]	2820	[1080, 1271]	4869	[6063, 83]	6918	[2842, 3155]
772	[1107, 1436]	2821	[4184, 4185]	4870	[3320, 3199]	6919	[7511, 1370]
773	[1437, 1438]	2822	[2943, 982]	4871	[1018, 4078]	6920	[4005, 7512]
774	[1439, 1440]	2823	[4186, 3990]	4872	[6064, 1484]	6921	[5694, 1326]
775	[1441, 1442]	2824	[4187, 3434]	4873	[450, 5896]	6922	[3518, 119]
776	[1443, 1360]	2825	[3601, 3141]	4874	[6065, 3184]	6923	[1447, 1214]
777	[1444, 1445]	2826	[4188, 1292]	4875	[6066, 3717]	6924	[7513, 3739]
778	[1446, 1447]	2827	[4189, 4190]	4876	[6067, 6068]	6925	[3974, 3910]
779	[1448, 343]	2828	[4191, 3088]	4877	[6069, 1391]	6926	[7514, 3387]
780	[1011, 1449]	2829	[4192, 442]	4878	[6070, 6071]	6927	[2845, 3612]
781	[1450, 1451]	2830	[4193, 381]	4879	[6072, 1411]	6928	[1641, 1204]
782	[1452, 1453]	2831	[4194, 682]	4880	[5525, 5552]	6929	[7515, 6151]
783	[1454, 1455]	2832	[4195, 4196]	4881	[6073, 1124]	6930	[3714, 3618]
784	[1456, 1457]	2833	[4197, 2535]	4882	[3282, 6074]	6931	[1682, 3137]
785	[1458, 1459]	2834	[4198, 4199]	4883	[6075, 970]	6932	[1205, 5580]
786	[1460, 402]	2835	[4200, 2411]	4884	[6076, 1067]	6933	[5737, 401]
787	[1461, 1462]	2836	[2208, 4201]	4885	[6077, 6056]	6934	[7516, 1695]
788	[991, 400]	2837	[4202, 4203]	4886	[6078, 3682]	6935	[7517, 2912]
789	[1463, 1464]	2838	[4204, 4205]	4887	[6079, 6080]	6936	[7311, 5698]
790	[1465, 1466]	2839	[4206, 2110]	4888	[6081, 1014]	6937	[7518, 1427]
791	[1467, 1468]	2840	[4207, 2435]	4889	[6082, 4185]	6938	[5606, 5902]
792	[1469, 1470]	2841	[4208, 4209]	4890	[2961, 3768]	6939	[7519, 3199]
793	[1471, 1472]	2842	[4210, 2009]	4891	[957, 5517]	6940	[6197, 397]
794	[1473, 1275]	2843	[2342, 4211]	4892	[6083, 6084]	6941	[7520, 3220]
795	[1474, 1475]	2844	[4212, 4213]	4893	[6085, 3383]	6942	[5654, 3842]
796	[1182, 1476]	2845	[4214, 2257]	4894	[4099, 3544]	6943	[1588, 379]
797	[1426, 117]	2846	[4215, 4216]	4895	[6086, 6087]	6944	[7521, 362]
798	[1477, 474]	2847	[4217, 866]	4896	[3816, 3505]	6945	[5960, 965]
799	[1478, 1479]	2848	[4218, 2492]	4897	[386, 5666]	6946	[7522, 1297]
800	[1480, 1481]	2849	[4219, 2805]	4898	[94, 6088]	6947	[3707, 2956]
801	[1482, 1483]	2850	[4220, 1907]	4899	[5674, 1639]	6948	[7523, 1456]
802	[1484, 1485]	2851	[4221, 4222]	4900	[5881, 3333]	6949	[3826, 6068]
803	[352, 321]	2852	[4223, 2422]	4901	[380, 485]	6950	[7524, 5644]
804	[1486, 1487]	2853	[785, 4224]	4902	[6089, 1226]	6951	[7246, 3374]

805	[1488, 450]	2854	[4225, 4226]	4903	[6090, 6091]	6952	[1678, 958]
806	[1489, 1490]	2855	[4227, 2013]	4904	[6092, 1567]	6953	[6182, 339]
807	[1491, 1492]	2856	[4228, 2779]	4905	[3952, 3006]	6954	[7414, 6231]
808	[1493, 1397]	2857	[4229, 2433]	4906	[1702, 1040]	6955	[7525, 5497]
809	[1494, 418]	2858	[4230, 2766]	4907	[3511, 6093]	6956	[7526, 3578]
810	[1495, 1496]	2859	[4231, 2609]	4908	[3423, 3811]	6957	[3892, 6091]
811	[1497, 353]	2860	[4232, 4233]	4909	[1391, 66]	6958	[7527, 1114]
812	[1498, 357]	2861	[4234, 1785]	4910	[5626, 333]	6959	[7528, 5852]
813	[1499, 1500]	2862	[4235, 4236]	4911	[6094, 3765]	6960	[5896, 1281]
814	[279, 470]	2863	[221, 2438]	4912	[6095, 3336]	6961	[7529, 1047]
815	[1501, 1282]	2864	[4237, 1747]	4913	[6096, 2919]	6962	[7530, 5843]
816	[443, 1502]	2865	[2179, 162]	4914	[6097, 3821]	6963	[3354, 3435]
817	[1180, 1411]	2866	[4238, 4239]	4915	[6098, 1582]	6964	[7531, 2958]
818	[1503, 448]	2867	[4240, 510]	4916	[6099, 3700]	6965	[7532, 3467]
819	[1504, 1419]	2868	[4241, 2392]	4917	[6100, 4070]	6966	[7533, 3149]
820	[1505, 1506]	2869	[239, 2427]	4918	[6101, 3774]	6967	[7534, 3202]
821	[1507, 1508]	2870	[4242, 4243]	4919	[5857, 1550]	6968	[7535, 3155]
822	[1509, 1510]	2871	[4244, 2716]	4920	[6102, 6103]	6969	[7536, 4058]
823	[1511, 1495]	2872	[4245, 4246]	4921	[4058, 6051]	6970	[7537, 3098]
824	[1512, 1513]	2873	[4247, 50]	4922	[6104, 3111]	6971	[4049, 3082]
825	[1514, 1347]	2874	[2642, 4248]	4923	[3744, 3855]	6972	[3201, 5843]
826	[1515, 1516]	2875	[4249, 4250]	4924	[5742, 361]	6973	[7538, 3855]
827	[1517, 1518]	2876	[4251, 1981]	4925	[6105, 4086]	6974	[7539, 382]
828	[1519, 1520]	2877	[4252, 4253]	4926	[6106, 4038]	6975	[7540, 5950]
829	[1336, 1521]	2878	[4254, 4255]	4927	[1232, 3835]	6976	[5892, 1043]
830	[1522, 1523]	2879	[4256, 193]	4928	[3760, 1602]	6977	[5609, 3019]
831	[1524, 1525]	2880	[4257, 2269]	4929	[6107, 1558]	6978	[1464, 3267]
832	[1526, 1527]	2881	[1811, 4258]	4930	[6108, 1668]	6979	[1328, 3559]
833	[1528, 1529]	2882	[515, 4259]	4931	[6091, 4022]	6980	[7541, 3171]
834	[1530, 1531]	2883	[4260, 4261]	4932	[6109, 3929]	6981	[5552, 4068]
835	[1532, 1533]	2884	[4262, 228]	4933	[3522, 1533]	6982	[3698, 69]
836	[1534, 375]	2885	[4263, 4264]	4934	[6110, 3642]	6983	[7542, 5825]
837	[1535, 1536]	2886	[4265, 1756]	4935	[6111, 377]	6984	[7543, 3508]
838	[1252, 1537]	2887	[4266, 2390]	4936	[6112, 6113]	6985	[7544, 1564]
839	[1538, 1507]	2888	[4267, 4268]	4937	[6114, 3702]	6986	[3832, 1703]
840	[1539, 1540]	2889	[4269, 4270]	4938	[6115, 6013]	6987	[7545, 1609]
841	[1541, 1542]	2890	[4271, 4229]	4939	[6116, 1110]	6988	[5511, 2897]
842	[1543, 1286]	2891	[4272, 1802]	4940	[6117, 494]	6989	[5739, 5590]
843	[1412, 1544]	2892	[942, 885]	4941	[6118, 4098]	6990	[7546, 999]
844	[1545, 1546]	2893	[4273, 4274]	4942	[6119, 1237]	6991	[3502, 3674]
845	[1276, 1547]	2894	[4275, 1759]	4943	[2956, 3160]	6992	[7547, 2908]
846	[1548, 1549]	2895	[1973, 4276]	4944	[6120, 6121]	6993	[7548, 258]
847	[1550, 1551]	2896	[4277, 4278]	4945	[6122, 5823]	6994	[1527, 3069]
848	[1552, 1553]	2897	[4279, 2676]	4946	[3101, 3190]	6995	[3342, 3699]

849	[1279, 1554]	2898	[4280, 4263]	4947	[24, 3756]	6996	[3196, 20]
850	[1142, 1555]	2899	[2441, 2424]	4948	[3377, 5652]	6997	[7549, 1098]
851	[1158, 1556]	2900	[4281, 2218]	4949	[6123, 3305]	6998	[7550, 3680]
852	[1557, 1472]	2901	[4282, 2755]	4950	[3125, 3577]	6999	[348, 5621]
853	[1558, 1012]	2902	[578, 4283]	4951	[6124, 3691]	7000	[1007, 5742]
854	[1559, 1560]	2903	[2575, 682]	4952	[6087, 4086]	7001	[1370, 1251]
855	[1561, 1562]	2904	[4284, 4285]	4953	[6125, 3594]	7002	[1536, 1438]
856	[418, 1563]	2905	[4286, 2427]	4954	[1013, 2966]	7003	[7551, 1455]
857	[1564, 1565]	2906	[4287, 726]	4955	[3144, 4123]	7004	[7552, 4081]
858	[1566, 1567]	2907	[32, 4244]	4956	[5942, 4098]	7005	[7553, 3779]
859	[1568, 1170]	2908	[34, 4288]	4957	[5830, 5545]	7006	[7554, 295]
860	[1569, 1570]	2909	[4289, 4290]	4958	[6126, 6127]	7007	[3492, 1094]
861	[1571, 1572]	2910	[4291, 2186]	4959	[6128, 5796]	7008	[7555, 6156]
862	[1573, 98]	2911	[2607, 2111]	4960	[5813, 3205]	7009	[7556, 5737]
863	[1574, 1575]	2912	[4292, 679]	4961	[6129, 5615]	7010	[1560, 3661]
864	[1576, 1577]	2913	[4293, 4294]	4962	[5770, 6130]	7011	[404, 5688]
865	[1578, 1579]	2914	[4295, 4296]	4963	[6131, 347]	7012	[7468, 6203]
866	[1580, 1581]	2915	[4297, 4298]	4964	[6132, 5783]	7013	[7557, 1140]
867	[1582, 1583]	2916	[4299, 2769]	4965	[4101, 5578]	7014	[7558, 3952]
868	[1584, 391]	2917	[4300, 907]	4966	[6133, 3187]	7015	[7559, 5724]
869	[1585, 1586]	2918	[595, 4274]	4967	[1455, 3532]	7016	[7560, 3352]
870	[1587, 1588]	2919	[4301, 1842]	4968	[1009, 1662]	7017	[6298, 1674]
871	[1589, 1337]	2920	[4302, 1844]	4969	[6134, 3435]	7018	[3250, 3744]
872	[1590, 91]	2921	[2411, 4303]	4970	[3188, 5806]	7019	[338, 3279]
873	[1591, 93]	2922	[2532, 4304]	4971	[3651, 3821]	7020	[7561, 3776]
874	[1592, 1593]	2923	[1799, 4305]	4972	[3084, 6135]	7021	[3514, 3207]
875	[1594, 1595]	2924	[4306, 1845]	4973	[3078, 3832]	7022	[7562, 1273]
876	[1596, 1333]	2925	[4307, 4308]	4974	[1537, 3853]	7023	[7563, 356]
877	[1597, 1598]	2926	[4309, 2000]	4975	[392, 1044]	7024	[6040, 5692]
878	[1599, 1600]	2927	[4310, 4311]	4976	[5950, 1405]	7025	[7564, 966]
879	[1440, 1601]	2928	[842, 4222]	4977	[6136, 4084]	7026	[7565, 1519]
880	[1602, 1603]	2929	[843, 4312]	4978	[1236, 1355]	7027	[3233, 4149]
881	[1604, 1605]	2930	[4313, 4314]	4979	[1354, 1595]	7028	[7566, 85]
882	[1606, 117]	2931	[4315, 4316]	4980	[3330, 5573]	7029	[7567, 3388]
883	[1607, 1608]	2932	[4317, 2595]	4981	[6137, 1163]	7030	[1405, 978]
884	[1609, 413]	2933	[4318, 848]	4982	[6138, 5904]	7031	[7568, 3773]
885	[1610, 1611]	2934	[219, 584]	4983	[6139, 1287]	7032	[1502, 3689]
886	[1612, 1613]	2935	[4319, 4320]	4984	[3515, 4095]	7033	[7569, 1308]
887	[1614, 1615]	2936	[4321, 2331]	4985	[6140, 6141]	7034	[3720, 5547]
888	[1001, 1091]	2937	[4322, 2148]	4986	[3640, 1199]	7035	[7570, 328]
889	[1616, 1617]	2938	[4323, 4324]	4987	[1581, 3948]	7036	[7571, 3979]
890	[1618, 1025]	2939	[726, 4325]	4988	[6142, 2845]	7037	[7572, 1265]
891	[1619, 1620]	2940	[4326, 2618]	4989	[6143, 361]	7038	[7573, 1613]
892	[1621, 1508]	2941	[4327, 2653]	4990	[5914, 4186]	7039	[7574, 1602]

893	[1622, 1371]	2942	[4328, 1771]	4991	[6144, 3698]	7040	[7575, 1556]
894	[1623, 1624]	2943	[2822, 4329]	4992	[3736, 6040]	7041	[7576, 1021]
895	[1625, 1425]	2944	[4330, 858]	4993	[3090, 3549]	7042	[3965, 6361]
896	[1626, 1626]	2945	[4331, 1850]	4994	[3115, 3072]	7043	[6060, 1082]
897	[1627, 1628]	2946	[4332, 32]	4995	[6145, 1036]	7044	[7577, 3984]
898	[1629, 300]	2947	[4333, 845]	4996	[1217, 6146]	7045	[7578, 5654]
899	[1630, 1631]	2948	[4334, 4335]	4997	[6147, 5771]	7046	[7579, 6311]
900	[1632, 1633]	2949	[2446, 2070]	4998	[3437, 5903]	7047	[1221, 1168]
901	[480, 1254]	2950	[2279, 4336]	4999	[1546, 449]	7048	[3363, 318]
902	[1634, 1635]	2951	[4337, 4338]	5000	[4130, 3367]	7049	[5756, 6325]
903	[1322, 1636]	2952	[4339, 2636]	5001	[6148, 1418]	7050	[7580, 5924]
904	[1637, 1303]	2953	[4340, 2711]	5002	[3582, 5513]	7051	[7581, 2920]
905	[1638, 1639]	2954	[4314, 2773]	5003	[6149, 3577]	7052	[7582, 1039]
906	[1640, 1641]	2955	[4341, 4342]	5004	[5595, 6150]	7053	[7583, 1513]
907	[1642, 1643]	2956	[4343, 2192]	5005	[6151, 5952]	7054	[7584, 4050]
908	[1644, 1645]	2957	[4344, 4345]	5006	[6152, 6153]	7055	[7585, 1663]
909	[6, 1646]	2958	[2347, 2762]	5007	[6154, 1463]	7056	[7586, 1011]
910	[1647, 1648]	2959	[4346, 1902]	5008	[3396, 4156]	7057	[1361, 4019]
911	[1649, 1650]	2960	[4347, 4348]	5009	[6155, 5502]	7058	[6253, 3224]
912	[1651, 1652]	2961	[4349, 800]	5010	[6156, 5970]	7059	[7587, 386]
913	[1653, 1654]	2962	[4350, 686]	5011	[6157, 3602]	7060	[3425, 5821]
914	[1655, 1656]	2963	[4351, 2173]	5012	[6158, 390]	7061	[1148, 5912]
915	[1657, 1658]	2964	[4352, 664]	5013	[3118, 395]	7062	[7588, 1373]
916	[1659, 1660]	2965	[4353, 2684]	5014	[6150, 1239]	7063	[7589, 481]
917	[1661, 1662]	2966	[4354, 903]	5015	[6159, 3599]	7064	[7590, 1536]
918	[1544, 1663]	2967	[4355, 4356]	5016	[3326, 3912]	7065	[7591, 1097]
919	[1664, 1665]	2968	[4357, 2470]	5017	[1470, 1417]	7066	[3776, 6087]
920	[1666, 1667]	2969	[4358, 2032]	5018	[5979, 5499]	7067	[7592, 3608]
921	[400, 1668]	2970	[4359, 2269]	5019	[6160, 3198]	7068	[7593, 1545]
922	[1669, 1670]	2971	[4360, 2267]	5020	[3496, 1562]	7069	[7594, 1449]
923	[1671, 1672]	2972	[1928, 4361]	5021	[6161, 6162]	7070	[7595, 1180]
924	[1673, 1475]	2973	[4362, 203]	5022	[6163, 301]	7071	[3796, 4121]
925	[1674, 1675]	2974	[4363, 522]	5023	[6164, 5903]	7072	[7596, 1374]
926	[1676, 1664]	2975	[4364, 2315]	5024	[6165, 3675]	7073	[6010, 3730]
927	[1677, 1678]	2976	[4365, 1806]	5025	[3267, 6049]	7074	[7597, 3845]
928	[1679, 1680]	2977	[4366, 4367]	5026	[3930, 3584]	7075	[7598, 1261]
929	[1681, 1682]	2978	[2595, 572]	5027	[285, 95]	7076	[5938, 5743]
930	[1117, 1683]	2979	[4368, 2270]	5028	[1314, 424]	7077	[7599, 5716]
931	[1684, 1685]	2980	[4369, 2029]	5029	[6166, 6167]	7078	[7600, 3552]
932	[1686, 396]	2981	[4370, 4371]	5030	[6168, 354]	7079	[3131, 5936]
933	[1687, 1494]	2982	[4372, 4373]	5031	[340, 5823]	7080	[1268, 5642]
934	[1095, 1688]	2983	[2170, 705]	5032	[1144, 952]	7081	[7601, 1377]
935	[1689, 1343]	2984	[4374, 4375]	5033	[6169, 6170]	7082	[7602, 5729]
936	[1690, 1691]	2985	[4376, 826]	5034	[6171, 4123]	7083	[7603, 3257]

937	[1692, 977]	2986	[4377, 890]	5035	[6172, 4187]	7084	[1166, 5769]
938	[1693, 1694]	2987	[4378, 608]	5036	[6173, 1492]	7085	[3962, 2844]
939	[297, 1695]	2988	[4379, 4380]	5037	[6174, 3993]	7086	[5902, 1358]
940	[1696, 319]	2989	[2130, 4381]	5038	[6175, 1422]	7087	[1685, 3602]
941	[1697, 1698]	2990	[4382, 4383]	5039	[3773, 3461]	7088	[7604, 3500]
942	[1699, 1700]	2991	[4384, 2148]	5040	[5952, 6013]	7089	[2899, 2835]
943	[1701, 1702]	2992	[4385, 4386]	5041	[4141, 3998]	7090	[7605, 3752]
944	[1703, 1704]	2993	[1957, 2472]	5042	[1332, 1145]	7091	[7606, 1188]
945	[1705, 1706]	2994	[4387, 4388]	5043	[263, 5842]	7092	[2838, 4172]
946	[1707, 1708]	2995	[4389, 2544]	5044	[6176, 5526]	7093	[7607, 413]
947	[1709, 1710]	2996	[4390, 4391]	5045	[3297, 23]	7094	[3774, 3839]
948	[1711, 185]	2997	[1820, 4392]	5046	[2990, 4050]	7095	[7608, 3142]
949	[1712, 1713]	2998	[2079, 4393]	5047	[6177, 1664]	7096	[7609, 3012]
950	[1714, 1715]	2999	[1915, 2415]	5048	[6178, 3827]	7097	[3198, 3174]
951	[1716, 1717]	3000	[2781, 4394]	5049	[3957, 1699]	7098	[6167, 1089]
952	[1718, 1719]	3001	[2043, 4395]	5050	[1567, 3760]	7099	[7610, 3188]
953	[1720, 1721]	3002	[2520, 2534]	5051	[6179, 1193]	7100	[3527, 6267]
954	[1722, 1723]	3003	[4329, 4396]	5052	[3633, 6180]	7101	[3579, 5783]
955	[1724, 1725]	3004	[4397, 4398]	5053	[6181, 3645]	7102	[3313, 997]
956	[1726, 1727]	3005	[4399, 2761]	5054	[3608, 6182]	7103	[2945, 3748]
957	[1728, 217]	3006	[4400, 863]	5055	[6183, 3978]	7104	[3798, 1615]
958	[1729, 1730]	3007	[4401, 895]	5056	[6184, 5733]	7105	[7611, 5599]
959	[1731, 202]	3008	[4402, 1733]	5057	[3483, 1112]	7106	[5696, 1401]
960	[1732, 1733]	3009	[4403, 175]	5058	[6185, 6186]	7107	[1403, 3018]
961	[1734, 1735]	3010	[4404, 4405]	5059	[6187, 3424]	7108	[7612, 2980]
962	[1736, 650]	3011	[4406, 598]	5060	[6188, 1465]	7109	[3336, 1060]
963	[1737, 1738]	3012	[4316, 4407]	5061	[6189, 5839]	7110	[7613, 332]
964	[1739, 1740]	3013	[4408, 4409]	5062	[6190, 6151]	7111	[6238, 1030]
965	[1741, 1742]	3014	[4410, 1721]	5063	[3628, 6191]	7112	[7614, 350]
966	[1743, 153]	3015	[4411, 2493]	5064	[6192, 2850]	7113	[7615, 1559]
967	[1744, 1745]	3016	[4248, 4412]	5065	[1272, 490]	7114	[318, 6031]
968	[1746, 1747]	3017	[4413, 4414]	5066	[6193, 1024]	7115	[7616, 3921]
969	[1748, 1749]	3018	[4415, 692]	5067	[6194, 5936]	7116	[7617, 5525]
970	[1750, 1751]	3019	[4416, 605]	5068	[6195, 3247]	7117	[7618, 1596]
971	[1752, 1753]	3020	[2672, 1790]	5069	[6196, 6197]	7118	[7619, 1288]
972	[1754, 826]	3021	[4417, 4418]	5070	[6198, 485]	7119	[5501, 5978]
973	[1755, 1756]	3022	[4419, 4420]	5071	[6199, 1113]	7120	[7620, 3033]
974	[1757, 1758]	3023	[1738, 2352]	5072	[3029, 3637]	7121	[7621, 1068]
975	[1759, 1760]	3024	[4421, 2321]	5073	[6200, 5568]	7122	[7622, 4125]
976	[1761, 1762]	3025	[4422, 141]	5074	[6201, 4013]	7123	[2922, 3785]
977	[1763, 1764]	3026	[4199, 4423]	5075	[6202, 5942]	7124	[4185, 2838]
978	[1765, 1766]	3027	[132, 4424]	5076	[6203, 1609]	7125	[5962, 6337]
979	[1767, 643]	3028	[4425, 4426]	5077	[6204, 5527]	7126	[7623, 3489]
980	[40, 1768]	3029	[4427, 4382]	5078	[6205, 408]	7127	[7624, 4000]

981	[1769, 1770]	3030	[4428, 2118]	5079	[6206, 1579]	7128	[1288, 1176]
982	[1771, 1772]	3031	[4429, 214]	5080	[6207, 344]	7129	[7625, 3783]
983	[1773, 1774]	3032	[4430, 839]	5081	[6208, 4157]	7130	[4170, 7246]
984	[1775, 1776]	3033	[4431, 4432]	5082	[6209, 92]	7131	[1466, 5976]
985	[1777, 1778]	3034	[208, 1801]	5083	[6210, 3217]	7132	[7626, 4132]
986	[1764, 1779]	3035	[4433, 2016]	5084	[1695, 3447]	7133	[6153, 2935]
987	[1780, 1781]	3036	[558, 4434]	5085	[1160, 6211]	7134	[291, 1312]
988	[1782, 1783]	3037	[4435, 4432]	5086	[6212, 5728]	7135	[3984, 3850]
989	[1784, 1785]	3038	[4436, 45]	5087	[1453, 365]	7136	[6267, 3897]
990	[1786, 1787]	3039	[4437, 2256]	5088	[1053, 6213]	7137	[4172, 6335]
991	[1788, 1789]	3040	[2270, 4438]	5089	[6214, 2936]	7138	[5842, 1182]
992	[1790, 1791]	3041	[4439, 2510]	5090	[6215, 5567]	7139	[7627, 3077]
993	[1792, 919]	3042	[4440, 2223]	5091	[5491, 6216]	7140	[7628, 1665]
994	[1793, 1794]	3043	[4441, 2748]	5092	[5644, 1198]	7141	[7629, 1160]
995	[531, 1795]	3044	[4442, 2777]	5093	[3802, 6015]	7142	[2934, 1282]
996	[1796, 1797]	3045	[4443, 4444]	5094	[6217, 3023]	7143	[7630, 3701]
997	[1798, 1799]	3046	[4445, 2263]	5095	[6218, 3357]	7144	[7631, 3775]
998	[1800, 1801]	3047	[4432, 519]	5096	[6219, 4167]	7145	[7632, 1704]
999	[1802, 1803]	3048	[4446, 1879]	5097	[6220, 1152]	7146	[7633, 2960]
1000	[1804, 1805]	3049	[529, 4447]	5098	[6221, 2856]	7147	[7634, 5664]
1001	[1806, 858]	3050	[4448, 526]	5099	[5652, 5706]	7148	[7635, 2867]
1002	[1807, 1808]	3051	[4449, 157]	5100	[6222, 257]	7149	[3621, 1298]
1003	[1809, 1810]	3052	[2013, 4450]	5101	[6223, 3833]	7150	[3672, 955]
1004	[8, 1811]	3053	[1961, 2481]	5102	[342, 6224]	7151	[7636, 373]
1005	[10, 515]	3054	[4451, 2230]	5103	[4009, 3937]	7152	[7637, 3615]
1006	[1812, 1813]	3055	[4452, 4239]	5104	[6225, 5976]	7153	[7638, 1538]
1007	[1814, 661]	3056	[4453, 4454]	5105	[370, 278]	7154	[7639, 3270]
1008	[1815, 1816]	3057	[4455, 2477]	5106	[6226, 269]	7155	[5917, 1648]
1009	[1817, 1818]	3058	[4456, 772]	5107	[6227, 5899]	7156	[3762, 6382]
1010	[1819, 1820]	3059	[4457, 2355]	5108	[6228, 2892]	7157	[5754, 3633]
1011	[1821, 169]	3060	[507, 4458]	5109	[1376, 3186]	7158	[7640, 2851]
1012	[1822, 1823]	3061	[249, 1822]	5110	[3255, 3132]	7159	[2884, 1487]
1013	[1824, 507]	3062	[599, 768]	5111	[6229, 5646]	7160	[2995, 6084]
1014	[612, 1825]	3063	[938, 4459]	5112	[293, 1658]	7161	[1083, 3105]
1015	[1826, 1827]	3064	[4460, 4461]	5113	[6230, 6231]	7162	[7641, 4087]
1016	[1828, 1829]	3065	[2557, 695]	5114	[1660, 6170]	7163	[1668, 3591]
1017	[1830, 1831]	3066	[4462, 565]	5115	[6232, 3835]	7164	[3988, 5488]
1018	[1832, 1833]	3067	[4463, 2165]	5116	[3880, 6190]	7165	[7642, 5501]
1019	[1834, 1835]	3068	[4464, 2200]	5117	[6233, 2864]	7166	[7643, 1246]
1020	[1766, 1836]	3069	[4465, 2035]	5118	[6213, 471]	7167	[7644, 5754]
1021	[1837, 528]	3070	[4466, 2535]	5119	[1633, 3159]	7168	[7645, 1500]
1022	[1838, 1839]	3071	[4467, 1965]	5120	[6234, 3568]	7169	[7646, 3672]
1023	[1840, 1841]	3072	[4468, 2463]	5121	[6235, 1660]	7170	[7647, 1359]
1024	[610, 1842]	3073	[4381, 4469]	5122	[2871, 1578]	7171	[394, 4071]

1025	[1843, 1844]	3074	[4470, 780]	5123	[3596, 6011]	7172	[7648, 4122]
1026	[1845, 659]	3075	[2450, 4471]	5124	[1285, 6236]	7173	[7649, 3656]
1027	[1846, 1847]	3076	[4472, 876]	5125	[6237, 6238]	7174	[7650, 2907]
1028	[1848, 1849]	3077	[4473, 4474]	5126	[6239, 1395]	7175	[1198, 3555]
1029	[654, 1850]	3078	[2729, 4369]	5127	[6240, 5666]	7176	[7651, 7468]
1030	[1851, 1852]	3079	[4475, 4476]	5128	[1320, 4069]	7177	[7652, 1585]
1031	[1853, 1854]	3080	[4477, 4478]	5129	[6241, 4071]	7178	[3955, 1142]
1032	[1855, 1856]	3081	[4479, 4480]	5130	[6242, 6226]	7179	[7653, 5596]
1033	[1857, 1858]	3082	[4481, 162]	5131	[5519, 2886]	7180	[3641, 3025]
1034	[1859, 1860]	3083	[4482, 2812]	5132	[1490, 5529]	7181	[7654, 4012]
1035	[1861, 1862]	3084	[2340, 2262]	5133	[6243, 1461]	7182	[7655, 4130]
1036	[1863, 1864]	3085	[4483, 4484]	5134	[5547, 3944]	7183	[3550, 3462]
1037	[1865, 1866]	3086	[4485, 2785]	5135	[2968, 6244]	7184	[962, 3636]
1038	[1867, 1868]	3087	[4486, 724]	5136	[6245, 1005]	7185	[7656, 3560]
1039	[1869, 844]	3088	[4487, 137]	5137	[6246, 3461]	7186	[4083, 263]
1040	[1870, 1871]	3089	[4488, 165]	5138	[6247, 6074]	7187	[3289, 272]
1041	[1872, 223]	3090	[2234, 4489]	5139	[6248, 5653]	7188	[7657, 3890]
1042	[1873, 198]	3091	[4490, 4491]	5140	[3586, 6249]	7189	[3180, 5726]
1043	[1874, 1875]	3092	[4492, 4484]	5141	[3381, 1058]	7190	[7658, 3781]
1044	[1876, 1877]	3093	[4493, 4494]	5142	[6250, 1300]	7191	[7659, 2852]
1045	[1878, 1879]	3094	[4324, 4495]	5143	[6251, 3646]	7192	[7660, 3965]
1046	[1880, 1881]	3095	[4496, 4497]	5144	[6252, 6253]	7193	[6419, 1054]
1047	[1882, 1883]	3096	[1762, 4498]	5145	[6236, 5480]	7194	[7661, 3340]
1048	[1884, 151]	3097	[4499, 913]	5146	[3942, 1592]	7195	[7662, 6249]
1049	[1885, 1886]	3098	[4500, 2329]	5147	[6254, 3498]	7196	[76, 384]
1050	[1887, 633]	3099	[2611, 4501]	5148	[6255, 2881]	7197	[7663, 1586]
1051	[1888, 553]	3100	[1725, 2115]	5149	[6256, 4168]	7198	[5996, 6356]
1052	[1889, 1890]	3101	[4502, 783]	5150	[6257, 3074]	7199	[7664, 3837]
1053	[1891, 1892]	3102	[2118, 4503]	5151	[6258, 3208]	7200	[7665, 1262]
1054	[1893, 601]	3103	[4504, 2628]	5152	[362, 74]	7201	[7666, 1544]
1055	[1894, 137]	3104	[4505, 4506]	5153	[5855, 3054]	7202	[7667, 1240]
1056	[1895, 1896]	3105	[4507, 4447]	5154	[6259, 5799]	7203	[7668, 7359]
1057	[1897, 1873]	3106	[4508, 566]	5155	[6260, 1209]	7204	[7669, 1699]
1058	[1898, 1899]	3107	[4509, 648]	5156	[6261, 3545]	7205	[7670, 395]
1059	[184, 1875]	3108	[4510, 4414]	5157	[6262, 5674]	7206	[7671, 5811]
1060	[1900, 1901]	3109	[4511, 4444]	5158	[6263, 3180]	7207	[7672, 1470]
1061	[1902, 1903]	3110	[4512, 1888]	5159	[287, 4187]	7208	[7673, 3579]
1062	[1904, 1905]	3111	[4513, 4514]	5160	[6264, 2859]	7209	[7674, 4076]
1063	[1906, 716]	3112	[4515, 4516]	5161	[6265, 1258]	7210	[6180, 3347]
1064	[901, 1907]	3113	[2787, 1978]	5162	[6266, 6267]	7211	[3837, 2891]
1065	[1908, 1909]	3114	[4517, 4518]	5163	[6268, 5531]	7212	[7675, 7311]
1066	[1910, 1911]	3115	[4519, 4381]	5164	[3393, 377]	7213	[7676, 1554]
1067	[1912, 1913]	3116	[4520, 4521]	5165	[4105, 5526]	7214	[7677, 3721]
1068	[1914, 1915]	3117	[4522, 2739]	5166	[6269, 3637]	7215	[7678, 5848]

1069	[1866, 1916]	3118	[4523, 2394]	5167	[1613, 5917]	7216	[1654, 3432]
1070	[1917, 511]	3119	[4524, 2811]	5168	[6270, 3706]	7217	[7679, 4001]
1071	[1918, 658]	3120	[3120, 3120]	5169	[6271, 1521]	7218	[7680, 6180]
1072	[1919, 1920]	3121	[4525, 4350]	5170	[1211, 403]	7219	[7681, 435]
1073	[1921, 1922]	3122	[4526, 4208]	5171	[6272, 2943]	7220	[5967, 4137]
1074	[1923, 1924]	3123	[2548, 4527]	5172	[6273, 2996]	7221	[7682, 1158]
1075	[1925, 1926]	3124	[4528, 4348]	5173	[1445, 2848]	7222	[7683, 3167]
1076	[1927, 1928]	3125	[1864, 736]	5174	[6244, 2890]	7223	[7684, 3600]
1077	[1929, 626]	3126	[4529, 4530]	5175	[6274, 1436]	7224	[7685, 985]
1078	[1930, 1931]	3127	[4531, 1736]	5176	[6275, 463]	7225	[5986, 5888]
1079	[1932, 1933]	3128	[4532, 4533]	5177	[1213, 2964]	7226	[7686, 956]
1080	[1934, 1935]	3129	[4534, 4535]	5178	[5632, 282]	7227	[7687, 2995]
1081	[1936, 1937]	3130	[4536, 2700]	5179	[5490, 1442]	7228	[1294, 3032]
1082	[1938, 1939]	3131	[4537, 4522]	5180	[6068, 3916]	7229	[3206, 1173]
1083	[1940, 1941]	3132	[4538, 4539]	5181	[5483, 1494]	7230	[3458, 2833]
1084	[1942, 187]	3133	[2268, 1926]	5182	[6276, 6277]	7231	[2582, 4389]
1085	[1943, 1944]	3134	[2162, 4540]	5183	[6278, 3269]	7232	[2168, 765]
1086	[1945, 1899]	3135	[4541, 4285]	5184	[6279, 3455]	7233	[7688, 5423]
1087	[1946, 200]	3136	[2415, 4542]	5185	[6280, 3826]	7234	[2663, 6613]
1088	[1947, 1948]	3137	[4543, 4544]	5186	[6281, 6282]	7235	[2703, 4903]
1089	[1949, 1950]	3138	[4545, 2187]	5187	[6283, 1537]	7236	[7689, 4666]
1090	[1951, 1952]	3139	[4546, 738]	5188	[6284, 6285]	7237	[4211, 6510]
1091	[1805, 1953]	3140	[2692, 4522]	5189	[6286, 3829]	7238	[499, 2304]
1092	[1954, 1955]	3141	[4547, 2059]	5190	[3977, 1434]	7239	[2187, 5285]
1093	[1956, 1957]	3142	[4548, 4549]	5191	[6287, 1610]	7240	[7690, 1918]
1094	[1958, 1959]	3143	[4550, 2763]	5192	[6288, 434]	7241	[5062, 7172]
1095	[1960, 1961]	3144	[4551, 4552]	5193	[5801, 1327]	7242	[2283, 5299]
1096	[1962, 186]	3145	[4553, 2750]	5194	[6289, 1242]	7243	[1768, 2]
1097	[1963, 1821]	3146	[4554, 2075]	5195	[3020, 3038]	7244	[7691, 6556]
1098	[1964, 1965]	3147	[4555, 2065]	5196	[6290, 3850]	7245	[7692, 6559]
1099	[685, 1966]	3148	[4556, 4557]	5197	[6291, 348]	7246	[7693, 62]
1100	[1965, 1967]	3149	[4476, 2446]	5198	[6292, 3162]	7247	[4261, 2743]
1101	[1968, 696]	3150	[4558, 2205]	5199	[6293, 283]	7248	[2330, 5389]
1102	[835, 1969]	3151	[4559, 593]	5200	[6127, 1066]	7249	[7694, 2738]
1103	[186, 1970]	3152	[2059, 4560]	5201	[1170, 5818]	7250	[7695, 881]
1104	[1971, 693]	3153	[4561, 4562]	5202	[1186, 6294]	7251	[7696, 2292]
1105	[1972, 1973]	3154	[4563, 774]	5203	[1646, 1678]	7252	[2670, 7697]
1106	[1974, 1975]	3155	[4564, 4565]	5204	[6295, 1574]	7253	[7698, 801]
1107	[1976, 1740]	3156	[2009, 4566]	5205	[6015, 3255]	7254	[5023, 4982]
1108	[1977, 1978]	3157	[4567, 4247]	5206	[6296, 3219]	7255	[7699, 4663]
1109	[1979, 1980]	3158	[4539, 1835]	5207	[6297, 6298]	7256	[746, 7095]
1110	[217, 1981]	3159	[4568, 4296]	5208	[1146, 3514]	7257	[7700, 5300]
1111	[1982, 1983]	3160	[4342, 4569]	5209	[3851, 3222]	7258	[7701, 1870]
1112	[1984, 1985]	3161	[4570, 239]	5210	[6299, 4184]	7259	[4409, 669]

1113	[1986, 1987]	3162	[4571, 4412]	5211	[6300, 1002]	7260	[7702, 6639]
1114	[1988, 1989]	3163	[4572, 2499]	5212	[3262, 1444]	7261	[4226, 2527]
1115	[1990, 1991]	3164	[4573, 2670]	5213	[6301, 3453]	7262	[7703, 5053]
1116	[1992, 1993]	3165	[4574, 4575]	5214	[3927, 294]	7263	[7704, 5422]
1117	[1994, 921]	3166	[4576, 1941]	5215	[2904, 3600]	7264	[7705, 5064]
1118	[1995, 1996]	3167	[4395, 1849]	5216	[6302, 1026]	7265	[7706, 4299]
1119	[768, 1997]	3168	[4577, 2607]	5217	[1510, 6303]	7266	[7707, 5139]
1120	[1998, 1988]	3169	[840, 1960]	5218	[6304, 6051]	7267	[167, 4961]
1121	[1999, 2000]	3170	[4578, 4324]	5219	[5722, 6305]	7268	[7708, 7177]
1122	[2001, 2002]	3171	[4579, 199]	5220	[6306, 441]	7269	[4633, 4854]
1123	[2003, 559]	3172	[4580, 2036]	5221	[3730, 3323]	7270	[4777, 7113]
1124	[568, 2004]	3173	[4581, 785]	5222	[3071, 6307]	7271	[7709, 2775]
1125	[2005, 1809]	3174	[4582, 4583]	5223	[6308, 460]	7272	[7710, 4714]
1126	[2006, 2007]	3175	[2705, 4584]	5224	[6309, 1528]	7273	[7711, 7204]
1127	[2008, 2009]	3176	[4585, 4586]	5225	[1326, 3659]	7274	[7712, 183]
1128	[1926, 2010]	3177	[4587, 210]	5226	[6310, 3967]	7275	[7713, 6969]
1129	[1892, 2011]	3178	[4588, 1867]	5227	[6311, 4038]	7276	[7714, 902]
1130	[2012, 2013]	3179	[4589, 639]	5228	[4024, 6312]	7277	[7715, 4523]
1131	[2014, 2015]	3180	[56, 4521]	5229	[6006, 1381]	7278	[7716, 7215]
1132	[607, 2016]	3181	[4590, 4591]	5230	[6313, 3066]	7279	[6546, 4685]
1133	[2017, 2018]	3182	[4592, 523]	5231	[6314, 1017]	7280	[7717, 6816]
1134	[2019, 2020]	3183	[2385, 4549]	5232	[6315, 5642]	7281	[7718, 6984]
1135	[2021, 2022]	3184	[4593, 2531]	5233	[6316, 84]	7282	[7719, 5315]
1136	[2023, 539]	3185	[4594, 2820]	5234	[1407, 3131]	7283	[7720, 2788]
1137	[2024, 2025]	3186	[4595, 4479]	5235	[6317, 6203]	7284	[7215, 6581]
1138	[2026, 2027]	3187	[4596, 2314]	5236	[6318, 6011]	7285	[7721, 4424]
1139	[2028, 2029]	3188	[4597, 4244]	5237	[6319, 6320]	7286	[7722, 524]
1140	[1966, 2030]	3189	[603, 727]	5238	[3917, 6321]	7287	[7723, 1750]
1141	[2031, 2032]	3190	[4598, 729]	5239	[5639, 1130]	7288	[7724, 6726]
1142	[2033, 195]	3191	[4599, 2207]	5240	[6322, 3174]	7289	[7725, 7009]
1143	[2034, 2035]	3192	[4600, 759]	5241	[6323, 1086]	7290	[2192, 2776]
1144	[790, 2036]	3193	[2691, 2108]	5242	[6324, 6325]	7291	[7726, 4335]
1145	[2037, 2038]	3194	[2348, 2624]	5243	[6326, 3183]	7292	[2369, 7223]
1146	[245, 2039]	3195	[4601, 2743]	5244	[6327, 6328]	7293	[5006, 7052]
1147	[2040, 2041]	3196	[2472, 1877]	5245	[3553, 3927]	7294	[7727, 5203]
1148	[2042, 2043]	3197	[4602, 178]	5246	[6329, 366]	7295	[6561, 4720]
1149	[2044, 156]	3198	[4603, 2625]	5247	[6330, 2942]	7296	[7697, 2745]
1150	[2045, 1738]	3199	[4444, 2234]	5248	[3752, 5763]	7297	[589, 4227]
1151	[2046, 2047]	3200	[4604, 2383]	5249	[3856, 3240]	7298	[7728, 2041]
1152	[2048, 2049]	3201	[4605, 2612]	5250	[6331, 5854]	7299	[6548, 2783]
1153	[2050, 2051]	3202	[4606, 2133]	5251	[6332, 1650]	7300	[5429, 5405]
1154	[2052, 2053]	3203	[4607, 195]	5252	[6333, 6312]	7301	[2444, 4263]
1155	[2054, 2055]	3204	[2271, 4608]	5253	[459, 3210]	7302	[7729, 1754]
1156	[2056, 2057]	3205	[4609, 4503]	5254	[6334, 3810]	7303	[7730, 5321]

1157	[2058, 2059]	3206	[2621, 2694]	5255	[3921, 5746]	7304	[7731, 508]
1158	[2060, 2061]	3207	[4610, 853]	5256	[5746, 5665]	7305	[6737, 4721]
1159	[2062, 2063]	3208	[4611, 4216]	5257	[1442, 5962]	7306	[6969, 4920]
1160	[2064, 2065]	3209	[4612, 4613]	5258	[6335, 6336]	7307	[1850, 7008]
1161	[2066, 2067]	3210	[4614, 2521]	5259	[5603, 3827]	7308	[7065, 902]
1162	[895, 2068]	3211	[4615, 14]	5260	[6337, 3940]	7309	[4690, 2195]
1163	[2069, 2070]	3212	[2039, 622]	5261	[6320, 6276]	7310	[5263, 7026]
1164	[2071, 548]	3213	[4616, 4617]	5262	[6338, 3618]	7311	[7732, 4586]
1165	[2072, 2073]	3214	[4618, 1825]	5263	[6339, 5912]	7312	[4837, 4607]
1166	[2074, 2075]	3215	[1758, 1847]	5264	[6340, 3071]	7313	[2397, 4578]
1167	[2076, 2077]	3216	[134, 4619]	5265	[6341, 5914]	7314	[7733, 2608]
1168	[2078, 2079]	3217	[4620, 4621]	5266	[5852, 5811]	7315	[6937, 4889]
1169	[2080, 2081]	3218	[4622, 2495]	5267	[6342, 368]	7316	[4672, 4666]
1170	[2082, 34]	3219	[4623, 4624]	5268	[6343, 1608]	7317	[5170, 4362]
1171	[2083, 2084]	3220	[4625, 4626]	5269	[4190, 3418]	7318	[7734, 4712]
1172	[2085, 505]	3221	[4627, 2568]	5270	[3353, 1557]	7319	[7735, 2690]
1173	[2086, 2087]	3222	[4628, 784]	5271	[6344, 1298]	7320	[7736, 6837]
1174	[2088, 2089]	3223	[4629, 4630]	5272	[6345, 3709]	7321	[7737, 2139]
1175	[2090, 2091]	3224	[4631, 2456]	5273	[6346, 461]	7322	[7738, 6562]
1176	[2092, 2093]	3225	[4497, 2218]	5274	[6347, 289]	7323	[7739, 6866]
1177	[2094, 754]	3226	[1991, 4295]	5275	[6037, 3906]	7324	[7740, 5191]
1178	[2095, 2096]	3227	[4632, 4633]	5276	[3941, 445]	7325	[7741, 4322]
1179	[2097, 2098]	3228	[4634, 2745]	5277	[6285, 4184]	7326	[2298, 7065]
1180	[2099, 2100]	3229	[4635, 4636]	5278	[6348, 121]	7327	[7742, 1743]
1181	[758, 2101]	3230	[4637, 2578]	5279	[6349, 1157]	7328	[7743, 218]
1182	[2102, 737]	3231	[4638, 4579]	5280	[6350, 3745]	7329	[7744, 896]
1183	[2103, 760]	3232	[4639, 569]	5281	[6351, 3842]	7330	[7745, 1986]
1184	[2104, 215]	3233	[827, 2674]	5282	[6352, 5543]	7331	[7746, 2599]
1185	[2105, 2106]	3234	[4640, 1973]	5283	[6353, 6213]	7332	[7747, 2128]
1186	[2107, 2108]	3235	[4641, 4570]	5284	[6354, 3662]	7333	[2030, 4476]
1187	[2109, 2110]	3236	[4642, 4643]	5285	[6355, 6356]	7334	[720, 2602]
1188	[1860, 643]	3237	[206, 2095]	5286	[6312, 3380]	7335	[7748, 6678]
1189	[2111, 2112]	3238	[1717, 227]	5287	[6357, 5856]	7336	[7749, 5321]
1190	[2113, 2114]	3239	[4644, 1824]	5288	[3003, 6319]	7337	[7750, 7176]
1191	[2115, 2116]	3240	[4645, 4552]	5289	[6358, 6307]	7338	[233, 6513]
1192	[2117, 2118]	3241	[4264, 2156]	5290	[6359, 3343]	7339	[7751, 2237]
1193	[2119, 2120]	3242	[4646, 4512]	5291	[4160, 3888]	7340	[7752, 4935]
1194	[1783, 661]	3243	[4647, 4648]	5292	[6360, 1477]	7341	[2459, 936]
1195	[2121, 2122]	3244	[4649, 4539]	5293	[5733, 6282]	7342	[7753, 7093]
1196	[2123, 1969]	3245	[4650, 4651]	5294	[6321, 3962]	7343	[4857, 7754]
1197	[2124, 2125]	3246	[1996, 4241]	5295	[6361, 3388]	7344	[6691, 2292]
1198	[2126, 2127]	3247	[169, 4652]	5296	[5524, 5801]	7345	[7755, 6518]
1199	[2128, 837]	3248	[2363, 4653]	5297	[6362, 401]	7346	[2101, 7054]
1200	[2129, 2130]	3249	[4654, 4655]	5298	[6363, 2874]	7347	[7756, 887]

1201	[935, 2131]	3250	[652, 637]	5299	[6364, 1679]	7348	[2425, 6816]
1202	[2132, 1821]	3251	[2047, 4656]	5300	[6365, 6366]	7349	[4996, 6941]
1203	[2133, 2067]	3252	[4657, 698]	5301	[4081, 950]	7350	[2659, 5315]
1204	[2134, 2135]	3253	[2466, 4658]	5302	[6367, 3869]	7351	[2740, 769]
1205	[570, 2136]	3254	[4659, 600]	5303	[1549, 456]	7352	[4268, 910]
1206	[2137, 2138]	3255	[4660, 2268]	5304	[388, 1354]	7353	[7757, 4534]
1207	[2139, 2140]	3256	[4661, 2323]	5305	[6368, 6369]	7354	[742, 5235]
1208	[2141, 2142]	3257	[4662, 4242]	5306	[6370, 5739]	7355	[7758, 2328]
1209	[174, 2143]	3258	[4586, 4663]	5307	[6371, 2911]	7356	[7759, 4985]
1210	[2144, 2145]	3259	[888, 2828]	5308	[490, 3771]	7357	[7760, 5144]
1211	[2035, 784]	3260	[4664, 4665]	5309	[6191, 1432]	7358	[7761, 4616]
1212	[2146, 2147]	3261	[4666, 4667]	5310	[6372, 1355]	7359	[7762, 2227]
1213	[2148, 2149]	3262	[4668, 4669]	5311	[6373, 3156]	7360	[7763, 2731]
1214	[2150, 2151]	3263	[1922, 1776]	5312	[6374, 122]	7361	[7764, 6967]
1215	[2152, 2153]	3264	[1983, 1742]	5313	[6375, 3575]	7362	[4270, 2617]
1216	[2154, 1990]	3265	[4670, 1886]	5314	[4177, 4139]	7363	[7765, 2617]
1217	[2155, 2156]	3266	[4671, 4672]	5315	[6376, 6089]	7364	[7766, 6782]
1218	[2157, 2158]	3267	[4673, 2295]	5316	[6377, 1031]	7365	[2420, 245]
1219	[2159, 2160]	3268	[4674, 557]	5317	[3727, 1465]	7366	[6792, 4690]
1220	[2161, 2162]	3269	[4675, 4676]	5318	[1234, 3309]	7367	[7767, 534]
1221	[1785, 2163]	3270	[4677, 208]	5319	[6378, 3350]	7368	[7768, 2729]
1222	[2164, 2165]	3271	[2240, 656]	5320	[3888, 5519]	7369	[669, 4615]
1223	[2166, 833]	3272	[4678, 4679]	5321	[6379, 376]	7370	[4484, 5398]
1224	[2167, 2168]	3273	[4680, 4681]	5322	[6380, 1625]	7371	[7769, 4425]
1225	[2169, 2170]	3274	[4682, 4276]	5323	[6381, 6382]	7372	[689, 4874]
1226	[2171, 2132]	3275	[4683, 4684]	5324	[6383, 6211]	7373	[2716, 2302]
1227	[2172, 2173]	3276	[2073, 4588]	5325	[6384, 3068]	7374	[2275, 6586]
1228	[2174, 2175]	3277	[4685, 2641]	5326	[6385, 3123]	7375	[2315, 931]
1229	[2176, 2177]	3278	[4686, 4687]	5327	[3991, 4056]	7376	[4407, 2573]
1230	[2178, 2179]	3279	[4688, 564]	5328	[6386, 2938]	7377	[5310, 725]
1231	[2180, 2161]	3280	[4689, 4690]	5329	[6387, 5985]	7378	[5053, 2498]
1232	[2181, 2182]	3281	[2018, 4691]	5330	[6388, 3660]	7379	[608, 6699]
1233	[2183, 2184]	3282	[4692, 597]	5331	[6389, 1223]	7380	[7770, 632]
1234	[2185, 2168]	3283	[4624, 4693]	5332	[6390, 3748]	7381	[7771, 7772]
1235	[2186, 2187]	3284	[4694, 4671]	5333	[3126, 433]	7382	[7773, 4410]
1236	[2188, 2189]	3285	[4695, 4262]	5334	[6391, 1468]	7383	[6819, 5265]
1237	[2190, 644]	3286	[4696, 2169]	5335	[3222, 5922]	7384	[1823, 4915]
1238	[2191, 2192]	3287	[4697, 4698]	5336	[6392, 3173]	7385	[7774, 808]
1239	[2193, 2194]	3288	[4699, 4700]	5337	[6393, 3112]	7386	[7775, 4510]
1240	[2195, 2196]	3289	[4701, 538]	5338	[6394, 4099]	7387	[7776, 7223]
1241	[157, 532]	3290	[4702, 2106]	5339	[3872, 951]	7388	[7777, 1763]
1242	[2197, 2198]	3291	[4703, 758]	5340	[6395, 3862]	7389	[2355, 4509]
1243	[2199, 813]	3292	[4608, 2340]	5341	[6396, 6335]	7390	[6753, 4698]
1244	[2200, 2201]	3293	[574, 1837]	5342	[6397, 6238]	7391	[7778, 627]

1245	[2202, 2203]	3294	[2587, 4704]	5343	[3149, 3382]	7392	[7779, 2589]
1246	[2204, 2185]	3295	[4705, 2689]	5344	[6398, 1232]	7393	[4530, 6937]
1247	[2205, 2206]	3296	[4706, 742]	5345	[6399, 3070]	7394	[7780, 1734]
1248	[2207, 2208]	3297	[2256, 4320]	5346	[3767, 5969]	7395	[6884, 7212]
1249	[2209, 2210]	3298	[4707, 4210]	5347	[1521, 3212]	7396	[7781, 5011]
1250	[2211, 2212]	3299	[4708, 725]	5348	[6400, 3814]	7397	[1933, 4966]
1251	[2213, 2214]	3300	[4709, 2469]	5349	[4122, 5486]	7398	[7782, 6854]
1252	[909, 2215]	3301	[4710, 2519]	5350	[6401, 3446]	7399	[7783, 4685]
1253	[2216, 2217]	3302	[2718, 1911]	5351	[6402, 6319]	7400	[7784, 6973]
1254	[2218, 1826]	3303	[2057, 4711]	5352	[6403, 95]	7401	[2127, 855]
1255	[2219, 61]	3304	[4712, 2285]	5353	[6404, 22]	7402	[5203, 7737]
1256	[2220, 2221]	3305	[2754, 740]	5354	[6405, 6406]	7403	[4862, 4375]
1257	[159, 2222]	3306	[2350, 2295]	5355	[6407, 3238]	7404	[7785, 4629]
1258	[1969, 2223]	3307	[4713, 2630]	5356	[6146, 3154]	7405	[4201, 2599]
1259	[2224, 190]	3308	[4714, 4514]	5357	[6408, 1338]	7406	[7786, 7787]
1260	[2225, 2226]	3309	[4715, 813]	5358	[6409, 4077]	7407	[7788, 1885]
1261	[2149, 2227]	3310	[4542, 2151]	5359	[3501, 2931]	7408	[7789, 5001]
1262	[664, 2057]	3311	[4716, 4717]	5360	[5539, 6410]	7409	[7790, 4706]
1263	[2228, 2229]	3312	[4718, 2749]	5361	[6021, 4174]	7410	[7791, 6948]
1264	[756, 2230]	3313	[4719, 4693]	5362	[3208, 3772]	7411	[7792, 2073]
1265	[693, 2099]	3314	[2217, 905]	5363	[6411, 1127]	7412	[7793, 6869]
1266	[2143, 2231]	3315	[4720, 2390]	5364	[4074, 4034]	7413	[2696, 7206]
1267	[2131, 2232]	3316	[587, 4456]	5365	[6412, 3644]	7414	[7794, 1811]
1268	[2233, 2234]	3317	[4721, 613]	5366	[6413, 1049]	7415	[2513, 5006]
1269	[2235, 2004]	3318	[4722, 4723]	5367	[6414, 1271]	7416	[7795, 4763]
1270	[2236, 1868]	3319	[4724, 4725]	5368	[6415, 6336]	7417	[7796, 4812]
1271	[2237, 934]	3320	[2430, 4726]	5369	[4079, 3951]	7418	[662, 6646]
1272	[2238, 2239]	3321	[905, 2781]	5370	[6141, 6153]	7419	[7797, 7121]
1273	[1749, 2240]	3322	[4246, 4727]	5371	[6416, 3418]	7420	[7798, 4560]
1274	[2241, 1764]	3323	[4728, 2784]	5372	[6103, 3302]	7421	[2814, 2750]
1275	[2242, 2243]	3324	[2752, 2709]	5373	[1435, 1070]	7422	[2189, 2449]
1276	[2244, 2245]	3325	[4729, 4730]	5374	[6417, 5713]	7423	[1818, 4269]
1277	[2246, 2247]	3326	[4731, 558]	5375	[6418, 6419]	7424	[2122, 6648]
1278	[2248, 2249]	3327	[4732, 4733]	5376	[5838, 1519]	7425	[1831, 2321]
1279	[755, 2250]	3328	[4734, 2487]	5377	[6420, 3271]	7426	[7799, 5252]
1280	[2251, 2252]	3329	[4735, 551]	5378	[5911, 1360]	7427	[5085, 2511]
1281	[2253, 2254]	3330	[4736, 591]	5379	[6421, 482]	7428	[7800, 4915]
1282	[2255, 2256]	3331	[4737, 4459]	5380	[6422, 1041]	7429	[7801, 4811]
1283	[584, 2257]	3332	[2405, 559]	5381	[6423, 1599]	7430	[5058, 7090]
1284	[2258, 2259]	3333	[2324, 2525]	5382	[6424, 1603]	7431	[4961, 4219]
1285	[2260, 532]	3334	[4738, 2007]	5383	[6425, 1446]	7432	[7802, 7803]
1286	[2261, 2262]	3335	[4739, 542]	5384	[2940, 6060]	7433	[7804, 4722]
1287	[2263, 2135]	3336	[4711, 2184]	5385	[6426, 1243]	7434	[7805, 216]
1288	[2264, 2265]	3337	[4740, 4684]	5386	[104, 5719]	7435	[7806, 181]

1289	[2266, 1944]	3338	[4741, 815]	5387	[6427, 3780]	7436	[7807, 1882]
1290	[2267, 2268]	3339	[4742, 2265]	5388	[3229, 1644]	7437	[4900, 7785]
1291	[2032, 663]	3340	[1803, 2279]	5389	[6428, 6045]	7438	[7808, 4347]
1292	[2269, 2270]	3341	[198, 4492]	5390	[6429, 1407]	7439	[916, 2788]
1293	[1899, 2271]	3342	[4743, 2282]	5391	[6430, 3874]	7440	[7809, 4867]
1294	[1948, 2272]	3343	[4744, 4248]	5392	[6431, 5986]	7441	[7810, 4317]
1295	[2273, 1916]	3344	[4745, 2689]	5393	[1274, 6406]	7442	[7811, 5394]
1296	[2274, 2275]	3345	[4746, 2397]	5394	[6432, 3598]	7443	[4250, 7009]
1297	[2276, 2277]	3346	[4747, 754]	5395	[6307, 1100]	7444	[2470, 4811]
1298	[2278, 2279]	3347	[4748, 640]	5396	[271, 3370]	7445	[4375, 4506]
1299	[2280, 2281]	3348	[2221, 4462]	5397	[6433, 5647]	7446	[4765, 6685]
1300	[1742, 2282]	3349	[4749, 4750]	5398	[6434, 3124]	7447	[7812, 7730]
1301	[748, 2283]	3350	[4751, 4336]	5399	[5590, 5944]	7448	[1751, 2358]
1302	[2284, 2285]	3351	[4752, 2096]	5400	[6435, 3062]	7449	[7813, 5035]
1303	[2286, 2287]	3352	[638, 2396]	5401	[6436, 1379]	7450	[7814, 5342]
1304	[2288, 2289]	3353	[1967, 192]	5402	[6437, 479]	7451	[7815, 5137]
1305	[1753, 2290]	3354	[2067, 2616]	5403	[6438, 467]	7452	[4391, 6809]
1306	[1719, 2291]	3355	[4753, 2555]	5404	[6439, 3522]	7453	[6785, 6548]
1307	[2292, 1805]	3356	[42, 2444]	5405	[6440, 3836]	7454	[5107, 2760]
1308	[2293, 2294]	3357	[4754, 4755]	5406	[6441, 3170]	7455	[2165, 4342]
1309	[2295, 2296]	3358	[4756, 4757]	5407	[6442, 3125]	7456	[7816, 6522]
1310	[2297, 161]	3359	[4758, 1931]	5408	[6443, 406]	7457	[7817, 4840]
1311	[2153, 2298]	3360	[4759, 4437]	5409	[3049, 3184]	7458	[7818, 910]
1312	[2299, 2188]	3361	[671, 2620]	5410	[6444, 260]	7459	[7819, 7820]
1313	[2300, 2160]	3362	[4760, 4632]	5411	[1631, 114]	7460	[2182, 6808]
1314	[2301, 2291]	3363	[4761, 4762]	5412	[6445, 3718]	7461	[7821, 6589]
1315	[2302, 2303]	3364	[4763, 806]	5413	[6446, 5633]	7462	[7822, 2101]
1316	[2304, 1985]	3365	[4764, 4765]	5414	[6447, 3323]	7463	[7823, 6919]
1317	[2305, 2306]	3366	[1801, 4766]	5415	[3718, 124]	7464	[2701, 524]
1318	[2307, 176]	3367	[4767, 2055]	5416	[6448, 4178]	7465	[7824, 2776]
1319	[2308, 2309]	3368	[4768, 2153]	5417	[6449, 3306]	7466	[6854, 4233]
1320	[2310, 2147]	3369	[4769, 4770]	5418	[6450, 6046]	7467	[7803, 5354]
1321	[2311, 2271]	3370	[4771, 651]	5419	[488, 3556]	7468	[7825, 520]
1322	[2312, 33]	3371	[4772, 4612]	5420	[6451, 1058]	7469	[921, 2627]
1323	[2313, 2191]	3372	[4773, 697]	5421	[1028, 3476]	7470	[6589, 5095]
1324	[2314, 2315]	3373	[4774, 4270]	5422	[6452, 3462]	7471	[5154, 7050]
1325	[883, 51]	3374	[1, 1980]	5423	[6453, 5571]	7472	[6910, 2353]
1326	[2316, 2317]	3375	[62, 4775]	5424	[6454, 5761]	7473	[1797, 5023]
1327	[2318, 612]	3376	[4776, 4777]	5425	[6455, 3487]	7474	[7826, 4831]
1328	[2319, 2320]	3377	[4778, 513]	5426	[6456, 3283]	7475	[2249, 5334]
1329	[2321, 2322]	3378	[4779, 4780]	5427	[5944, 5881]	7476	[6748, 7730]
1330	[2323, 2324]	3379	[4781, 2520]	5428	[968, 3593]	7477	[7827, 5299]
1331	[2325, 2037]	3380	[4782, 1898]	5429	[6457, 3795]	7478	[6661, 4730]
1332	[2326, 2327]	3381	[4783, 184]	5430	[6458, 1656]	7479	[7828, 6970]

1333	[2328, 2329]	3382	[4784, 2532]	5431	[6459, 355]	7480	[7829, 4457]
1334	[712, 2330]	3383	[2641, 4624]	5432	[6460, 1420]	7481	[7787, 7772]
1335	[2331, 2332]	3384	[212, 2061]	5433	[6461, 430]	7482	[7830, 160]
1336	[2333, 2039]	3385	[794, 2699]	5434	[1389, 2952]	7483	[802, 4892]
1337	[2334, 1727]	3386	[4785, 2712]	5435	[3857, 6127]	7484	[7831, 6824]
1338	[2335, 896]	3387	[4786, 2141]	5436	[6462, 1211]	7485	[5042, 7768]
1339	[2336, 880]	3388	[4787, 838]	5437	[6463, 6464]	7486	[4791, 7195]
1340	[922, 2337]	3389	[2138, 839]	5438	[6465, 3653]	7487	[7832, 4926]
1341	[1795, 2338]	3390	[4788, 4753]	5439	[6466, 3016]	7488	[7833, 4887]
1342	[2339, 2340]	3391	[4789, 1865]	5440	[6467, 6224]	7489	[7834, 172]
1343	[2341, 2342]	3392	[4790, 4791]	5441	[6468, 6244]	7490	[5146, 6678]
1344	[2343, 2344]	3393	[4792, 737]	5442	[1101, 5522]	7491	[776, 7046]
1345	[2345, 2136]	3394	[4793, 719]	5443	[6469, 4020]	7492	[7835, 5166]
1346	[2346, 2347]	3395	[4562, 4794]	5444	[1422, 389]	7493	[2229, 2137]
1347	[1735, 2348]	3396	[4795, 2277]	5445	[6470, 126]	7494	[7836, 6709]
1348	[2349, 2350]	3397	[204, 4796]	5446	[6471, 1075]	7495	[2510, 2406]
1349	[2351, 2352]	3398	[4797, 4798]	5447	[6029, 416]	7496	[2424, 6726]
1350	[2353, 241]	3399	[4799, 4711]	5448	[1061, 968]	7497	[7837, 7838]
1351	[2354, 2355]	3400	[4800, 1818]	5449	[5700, 5924]	7498	[4750, 4816]
1352	[2356, 1845]	3401	[4801, 1929]	5450	[6472, 6276]	7499	[2070, 2172]
1353	[2357, 2358]	3402	[4802, 1930]	5451	[6473, 272]	7500	[6878, 7766]
1354	[2359, 675]	3403	[4803, 4804]	5452	[6474, 972]	7501	[7839, 2104]
1355	[2360, 2361]	3404	[4805, 4316]	5453	[6475, 3264]	7502	[4726, 5310]
1356	[2362, 2363]	3405	[4806, 1891]	5454	[6476, 3942]	7503	[7840, 1855]
1357	[2364, 2365]	3406	[4807, 4304]	5455	[6477, 67]	7504	[7841, 610]
1358	[2366, 58]	3407	[4808, 527]	5456	[6478, 3772]	7505	[7842, 4757]
1359	[2022, 1736]	3408	[4809, 864]	5457	[6479, 6135]	7506	[4727, 4410]
1360	[2367, 2368]	3409	[4810, 243]	5458	[426, 2941]	7507	[4796, 6564]
1361	[2290, 2369]	3410	[4613, 2818]	5459	[6480, 3574]	7508	[2649, 5130]
1362	[2370, 2371]	3411	[4811, 4812]	5460	[6481, 1069]	7509	[7843, 9]
1363	[2372, 1919]	3412	[4813, 1826]	5461	[6482, 1081]	7510	[6823, 2429]
1364	[2201, 924]	3413	[2559, 2554]	5462	[6483, 2973]	7511	[2210, 6897]
1365	[2373, 2374]	3414	[4814, 4815]	5463	[3446, 2944]	7512	[7844, 1871]
1366	[2375, 2376]	3415	[4816, 2027]	5464	[6484, 2999]	7513	[7845, 2259]
1367	[2377, 2378]	3416	[4817, 697]	5465	[3828, 426]	7514	[2254, 4988]
1368	[2379, 2380]	3417	[4818, 193]	5466	[6485, 1696]	7515	[1778, 4591]
1369	[2381, 630]	3418	[2065, 2346]	5467	[6486, 3107]	7516	[7846, 2105]
1370	[2382, 663]	3419	[4652, 4398]	5468	[6487, 1307]	7517	[7847, 1970]
1371	[701, 2383]	3420	[4819, 4820]	5469	[6488, 3335]	7518	[1776, 7176]
1372	[2384, 2385]	3421	[4821, 634]	5470	[6489, 1511]	7519	[7848, 4488]
1373	[2386, 1955]	3422	[4822, 4819]	5471	[1342, 3083]	7520	[4676, 2683]
1374	[708, 582]	3423	[4823, 2243]	5472	[6490, 270]	7521	[7849, 6893]
1375	[2387, 2388]	3424	[4516, 1930]	5473	[6491, 1491]	7522	[7850, 4607]
1376	[2389, 2079]	3425	[4824, 545]	5474	[4026, 1390]	7523	[7851, 5433]

1377	[2390, 1753]	3426	[4825, 2293]	5475	[6492, 135]	7524	[7113, 719]
1378	[2391, 2392]	3427	[4826, 879]	5476	[6493, 4981]	7525	[7852, 4238]
1379	[2393, 2049]	3428	[4827, 4828]	5477	[6494, 5232]	7526	[4873, 2362]
1380	[2394, 2395]	3429	[4829, 2228]	5478	[6495, 2394]	7527	[7853, 2707]
1381	[2396, 2397]	3430	[4830, 1768]	5479	[5112, 1816]	7528	[7854, 2064]
1382	[1931, 1957]	3431	[4831, 4832]	5480	[6496, 889]	7529	[4371, 4724]
1383	[2398, 2399]	3432	[4833, 4619]	5481	[6497, 4349]	7530	[171, 6578]
1384	[2400, 2401]	3433	[4834, 773]	5482	[6498, 6499]	7531	[891, 4745]
1385	[501, 2402]	3434	[4835, 2571]	5483	[6500, 3120]	7532	[7855, 620]
1386	[1907, 2403]	3435	[4836, 144]	5484	[6501, 2109]	7533	[4947, 6737]
1387	[2404, 2405]	3436	[2616, 4837]	5485	[4977, 5340]	7534	[7856, 2706]
1388	[2406, 803]	3437	[2289, 4665]	5486	[6502, 2734]	7535	[7857, 7209]
1389	[2407, 2408]	3438	[2768, 2435]	5487	[6503, 4372]	7536	[7858, 6570]
1390	[2409, 2287]	3439	[4838, 4759]	5488	[6504, 2170]	7537	[2184, 5290]
1391	[2410, 2411]	3440	[4839, 838]	5489	[2508, 6505]	7538	[4566, 5206]
1392	[2412, 2413]	3441	[4840, 815]	5490	[6506, 2654]	7539	[4969, 4733]
1393	[2414, 2415]	3442	[4841, 849]	5491	[6507, 4360]	7540	[7859, 6683]
1394	[2416, 2417]	3443	[2461, 4842]	5492	[705, 2374]	7541	[7860, 7206]
1395	[2418, 553]	3444	[4843, 2206]	5493	[6508, 775]	7542	[7861, 619]
1396	[2419, 2420]	3445	[4844, 4704]	5494	[6509, 6510]	7543	[4308, 2588]
1397	[2421, 2422]	3446	[4845, 2493]	5495	[6511, 2196]	7544	[7862, 4211]
1398	[2423, 2424]	3447	[4846, 1836]	5496	[6512, 6513]	7545	[6735, 5289]
1399	[2282, 2425]	3448	[721, 2631]	5497	[2623, 2763]	7546	[4557, 2495]
1400	[1862, 2401]	3449	[4847, 2620]	5498	[6514, 2455]	7547	[7863, 7054]
1401	[2426, 1781]	3450	[673, 4848]	5499	[6515, 4423]	7548	[7864, 6555]
1402	[2427, 2428]	3451	[4849, 2275]	5500	[6516, 4224]	7549	[1896, 7078]
1403	[2429, 2430]	3452	[4850, 4851]	5501	[4501, 5435]	7550	[7865, 6897]
1404	[2431, 2349]	3453	[4852, 1837]	5502	[6517, 4865]	7551	[7866, 4995]
1405	[2432, 2433]	3454	[4853, 36]	5503	[6518, 6519]	7552	[2755, 7838]
1406	[2434, 722]	3455	[4854, 2656]	5504	[2084, 4911]	7553	[4393, 159]
1407	[2435, 2436]	3456	[679, 2516]	5505	[6520, 4334]	7554	[543, 2398]
1408	[2437, 683]	3457	[4855, 4407]	5506	[2709, 5422]	7555	[885, 7006]
1409	[2438, 2439]	3458	[4856, 4857]	5507	[6521, 5424]	7556	[7867, 7826]
1410	[2440, 2441]	3459	[4858, 4859]	5508	[6522, 5198]	7557	[1727, 6522]
1411	[2413, 2157]	3460	[1708, 2015]	5509	[6523, 2180]	7558	[5204, 4400]
1412	[2442, 2089]	3461	[4860, 4382]	5510	[6524, 4196]	7559	[6529, 1927]
1413	[2443, 2444]	3462	[4861, 2363]	5511	[5240, 1854]	7560	[622, 4935]
1414	[2445, 2446]	3463	[4312, 4862]	5512	[2736, 5078]	7561	[7868, 2058]
1415	[2447, 2448]	3464	[4863, 4278]	5513	[6525, 1862]	7562	[7869, 715]
1416	[2449, 2450]	3465	[1875, 2570]	5514	[6526, 6527]	7563	[7870, 4964]
1417	[2451, 2452]	3466	[2401, 4864]	5515	[6528, 2111]	7564	[7871, 6837]
1418	[2453, 2405]	3467	[2402, 4865]	5516	[4290, 6529]	7565	[5461, 2404]
1419	[2454, 134]	3468	[4866, 4867]	5517	[6530, 4761]	7566	[4527, 172]
1420	[2455, 2456]	3469	[4868, 2739]	5518	[4278, 1986]	7567	[225, 6819]

1421	[2457, 1840]	3470	[4869, 4870]	5519	[6531, 2322]	7568	[5342, 2122]
1422	[2458, 2459]	3471	[4871, 1790]	5520	[4812, 4417]	7569	[7872, 2296]
1423	[2460, 2461]	3472	[4872, 4873]	5521	[6532, 5269]	7570	[247, 522]
1424	[2462, 908]	3473	[4874, 4427]	5522	[6533, 4974]	7571	[7873, 2080]
1425	[1715, 2463]	3474	[4196, 4360]	5523	[6534, 6535]	7572	[7874, 7005]
1426	[2464, 234]	3475	[4875, 4876]	5524	[6536, 5347]	7573	[539, 5374]
1427	[2465, 2466]	3476	[4877, 2161]	5525	[128, 2503]	7574	[7875, 6581]
1428	[2467, 730]	3477	[4878, 2120]	5526	[6537, 1708]	7575	[237, 4649]
1429	[2468, 2208]	3478	[2811, 1713]	5527	[6538, 1735]	7576	[4658, 1838]
1430	[2469, 2470]	3479	[1950, 790]	5528	[6539, 891]	7577	[7876, 4876]
1431	[2471, 2472]	3480	[4879, 4703]	5529	[6540, 2546]	7578	[5063, 2731]
1432	[2473, 2474]	3481	[2177, 4648]	5530	[6541, 4599]	7579	[6970, 7817]
1433	[2206, 2452]	3482	[4880, 4457]	5531	[6542, 2786]	7580	[5102, 5035]
1434	[2475, 918]	3483	[4881, 4882]	5532	[6543, 6544]	7581	[6833, 6583]
1435	[2476, 2477]	3484	[4883, 4671]	5533	[6545, 6546]	7582	[7877, 166]
1436	[1975, 901]	3485	[188, 1806]	5534	[5041, 4866]	7583	[2075, 6695]
1437	[2478, 2479]	3486	[4884, 4885]	5535	[6547, 6548]	7584	[7878, 2159]
1438	[2480, 2481]	3487	[2096, 2314]	5536	[2358, 497]	7585	[7879, 6624]
1439	[2482, 2436]	3488	[4886, 2760]	5537	[6549, 2533]	7586	[5281, 2496]
1440	[2483, 2087]	3489	[4887, 744]	5538	[6550, 4223]	7587	[1909, 4254]
1441	[1913, 2484]	3490	[4888, 568]	5539	[4469, 729]	7588	[4896, 147]
1442	[2485, 2486]	3491	[4889, 2696]	5540	[5151, 2248]	7589	[4239, 2159]
1443	[2487, 2488]	3492	[4890, 4235]	5541	[36, 4391]	7590	[7880, 5086]
1444	[2489, 2490]	3493	[4891, 4892]	5542	[6551, 5341]	7591	[1740, 6962]
1445	[2491, 2492]	3494	[4893, 4894]	5543	[6552, 2263]	7592	[241, 7028]
1446	[2493, 1829]	3495	[4895, 4896]	5544	[1770, 5247]	7593	[7881, 6505]
1447	[2494, 556]	3496	[4897, 714]	5545	[6553, 2698]	7594	[7882, 4325]
1448	[2495, 674]	3497	[1844, 2454]	5546	[505, 4895]	7595	[2198, 2413]
1449	[2496, 2497]	3498	[2041, 4898]	5547	[6554, 2587]	7596	[7883, 2201]
1450	[1987, 538]	3499	[4899, 4900]	5548	[6555, 595]	7597	[2804, 6535]
1451	[2498, 2499]	3500	[4901, 4288]	5549	[6556, 4570]	7598	[1852, 4687]
1452	[2500, 2501]	3501	[770, 1901]	5550	[6557, 4297]	7599	[7884, 7088]
1453	[2502, 1751]	3502	[605, 2388]	5551	[6558, 5344]	7600	[7885, 6815]
1454	[2503, 874]	3503	[4902, 4903]	5552	[6559, 1789]	7601	[5375, 1743]
1455	[2504, 1860]	3504	[4904, 4905]	5553	[6560, 6561]	7602	[2573, 7820]
1456	[2505, 2410]	3505	[944, 4906]	5554	[6562, 4431]	7603	[6941, 4681]
1457	[2203, 2506]	3506	[2638, 2188]	5555	[6563, 4312]	7604	[2338, 1996]
1458	[2507, 2508]	3507	[4907, 2030]	5556	[5459, 2310]	7605	[4420, 4716]
1459	[740, 2182]	3508	[4908, 4897]	5557	[859, 835]	7606	[7886, 4831]
1460	[2509, 2510]	3509	[4909, 875]	5558	[6564, 6565]	7607	[4560, 801]
1461	[2511, 2512]	3510	[4910, 2267]	5559	[4938, 2393]	7608	[4770, 4712]
1462	[1903, 2513]	3511	[1854, 1933]	5560	[4506, 4309]	7609	[7887, 4832]
1463	[2514, 688]	3512	[4911, 4770]	5561	[624, 6566]	7610	[4665, 7093]
1464	[2515, 2516]	3513	[4912, 4913]	5562	[6567, 4723]	7611	[6873, 5056]

1465	[2517, 2518]	3514	[4914, 4373]	5563	[4426, 6568]	7612	[6856, 4405]
1466	[2519, 2520]	3515	[4915, 2765]	5564	[6569, 635]	7613	[4993, 4829]
1467	[566, 2521]	3516	[4916, 2211]	5565	[4971, 6570]	7614	[7888, 7078]
1468	[2522, 2523]	3517	[2714, 1840]	5566	[2277, 5287]	7615	[642, 684]
1469	[2524, 2525]	3518	[4917, 880]	5567	[1952, 531]	7616	[161, 6544]
1470	[2526, 1808]	3519	[2015, 4918]	5568	[591, 4573]	7617	[4864, 6559]
1471	[2527, 2528]	3520	[4919, 746]	5569	[6571, 537]	7618	[4766, 2328]
1472	[192, 2529]	3521	[2230, 2177]	5570	[6572, 5323]	7619	[7889, 6834]
1473	[2530, 2244]	3522	[4920, 4921]	5571	[6573, 814]	7620	[7890, 1979]
1474	[2091, 2252]	3523	[2680, 4922]	5572	[6574, 6575]	7621	[7891, 619]
1475	[930, 2531]	3524	[4923, 4924]	5573	[6576, 4898]	7622	[7892, 61]
1476	[2068, 2532]	3525	[1905, 2591]	5574	[6577, 6578]	7623	[7893, 804]
1477	[2533, 2274]	3526	[4617, 822]	5575	[6579, 4635]	7624	[7894, 2219]
1478	[2534, 938]	3527	[2486, 2586]	5576	[6580, 2742]	7625	[7895, 5325]
1479	[2535, 2536]	3528	[2327, 4925]	5577	[6581, 150]	7626	[7896, 7766]
1480	[2537, 2538]	3529	[4926, 1889]	5578	[6582, 2337]	7627	[60, 7221]
1481	[2539, 873]	3530	[4927, 4928]	5579	[6583, 6584]	7628	[7897, 2688]
1482	[2540, 2541]	3531	[4929, 852]	5580	[6585, 2439]	7629	[5172, 7826]
1483	[2542, 563]	3532	[4930, 2141]	5581	[6586, 6557]	7630	[7898, 5398]
1484	[2543, 2544]	3533	[4931, 2660]	5582	[2665, 6527]	7631	[7899, 6574]
1485	[2545, 2546]	3534	[4932, 2378]	5583	[6587, 1983]	7632	[2593, 6560]
1486	[2547, 2548]	3535	[2759, 60]	5584	[6588, 6589]	7633	[2417, 4349]
1487	[2549, 2550]	3536	[4933, 4934]	5585	[1981, 6590]	7634	[7900, 6968]
1488	[2551, 2365]	3537	[4935, 4936]	5586	[6591, 892]	7635	[7901, 4662]
1489	[2552, 2553]	3538	[4937, 4938]	5587	[6592, 611]	7636	[4820, 6562]
1490	[2554, 1717]	3539	[4939, 2512]	5588	[881, 4643]	7637	[7902, 4431]
1491	[2555, 2127]	3540	[4940, 250]	5589	[6593, 4309]	7638	[6893, 2579]
1492	[2556, 2557]	3541	[4941, 4845]	5590	[6594, 788]	7639	[2676, 5456]
1493	[2558, 2559]	3542	[4942, 1918]	5591	[6595, 6596]	7640	[4412, 7205]
1494	[2560, 2561]	3543	[616, 851]	5592	[2541, 5451]	7641	[658, 6987]
1495	[2562, 2563]	3544	[1781, 4943]	5593	[6597, 229]	7642	[2320, 4387]
1496	[2564, 2565]	3545	[4944, 4851]	5594	[2477, 1940]	7643	[4222, 5433]
1497	[2566, 677]	3546	[4945, 4585]	5595	[6598, 2364]	7644	[7903, 2668]
1498	[2567, 182]	3547	[4946, 4947]	5596	[6599, 4383]	7645	[7904, 5332]
1499	[2568, 2569]	3548	[4798, 4750]	5597	[6600, 4856]	7646	[1901, 5196]
1500	[2570, 2571]	3549	[165, 4924]	5598	[6601, 4856]	7647	[4447, 1734]
1501	[2572, 2573]	3550	[4489, 4948]	5599	[2163, 673]	7648	[7905, 5111]
1502	[2574, 2575]	3551	[1970, 618]	5600	[6602, 5297]	7649	[7906, 7052]
1503	[2576, 2164]	3552	[4949, 2034]	5601	[6603, 2804]	7650	[7907, 6809]
1504	[180, 2455]	3553	[2306, 4798]	5602	[582, 4575]	7651	[2395, 2733]
1505	[2577, 2425]	3554	[4950, 4437]	5603	[810, 4205]	7652	[4392, 2682]
1506	[2578, 2211]	3555	[4951, 2222]	5604	[6604, 4996]	7653	[926, 6518]
1507	[2579, 2448]	3556	[4952, 1795]	5605	[6605, 4677]	7654	[7908, 6672]
1508	[2580, 2581]	3557	[4953, 2341]	5606	[6606, 5063]	7655	[4480, 4767]

1509	[2368, 2582]	3558	[4236, 4819]	5607	[2793, 4478]	7656	[4725, 2325]
1510	[2583, 2037]	3559	[4954, 4955]	5608	[6607, 5456]	7657	[7909, 5029]
1511	[2584, 2564]	3560	[4693, 4956]	5609	[6608, 2672]	7658	[7910, 6823]
1512	[2585, 2586]	3561	[4957, 4237]	5610	[6609, 5231]	7659	[774, 4637]
1513	[1772, 857]	3562	[1827, 4703]	5611	[4986, 5363]	7660	[7911, 4466]
1514	[2227, 2349]	3563	[4958, 4921]	5612	[6610, 929]	7661	[7912, 2091]
1515	[2029, 2587]	3564	[4959, 4727]	5613	[2523, 2736]	7662	[7913, 782]
1516	[2588, 883]	3565	[2742, 2754]	5614	[6611, 4815]	7663	[4450, 2548]
1517	[2492, 2589]	3566	[4960, 4961]	5615	[6612, 2503]	7664	[1747, 4340]
1518	[2590, 2591]	3567	[4962, 4948]	5616	[6613, 5183]	7665	[7914, 1994]
1519	[2592, 2593]	3568	[4963, 1725]	5617	[6614, 639]	7666	[7915, 2783]
1520	[2594, 2595]	3569	[4964, 4345]	5618	[6615, 2112]	7667	[7221, 6588]
1521	[2332, 2596]	3570	[4965, 4966]	5619	[6616, 1786]	7668	[7916, 4866]
1522	[855, 2597]	3571	[2232, 1766]	5620	[2544, 4235]	7669	[7917, 2827]
1523	[837, 2598]	3572	[4967, 2379]	5621	[6617, 2347]	7670	[7918, 769]
1524	[2599, 2600]	3573	[4968, 4969]	5622	[6618, 6619]	7671	[7919, 5015]
1525	[2601, 886]	3574	[4970, 4956]	5623	[6544, 5048]	7672	[2371, 6694]
1526	[2602, 2603]	3575	[4591, 4971]	5624	[6620, 5202]	7673	[7920, 4656]
1527	[2604, 2605]	3576	[4474, 2375]	5625	[6621, 2496]	7674	[7921, 5379]
1528	[2606, 2607]	3577	[4972, 2189]	5626	[6622, 2529]	7675	[7922, 2343]
1529	[2608, 2609]	3578	[736, 4973]	5627	[6623, 4944]	7676	[7923, 4963]
1530	[2610, 2611]	3579	[562, 4974]	5628	[1810, 2017]	7677	[517, 7912]
1531	[2612, 2441]	3580	[4975, 549]	5629	[6624, 6625]	7678	[4828, 6721]
1532	[2613, 2406]	3581	[4976, 4977]	5630	[6626, 2827]	7679	[7121, 6984]
1533	[2614, 2407]	3582	[4978, 2229]	5631	[6627, 2178]	7680	[2603, 7787]
1534	[635, 40]	3583	[4274, 4454]	5632	[6628, 2038]	7681	[7924, 7179]
1535	[2615, 2616]	3584	[4979, 2250]	5633	[6629, 2784]	7682	[2634, 7203]
1536	[2016, 1915]	3585	[2175, 908]	5634	[6630, 2204]	7683	[7925, 4577]
1537	[2617, 2618]	3586	[2598, 2145]	5635	[6631, 4985]	7684	[7926, 7139]
1538	[58, 2619]	3587	[2061, 585]	5636	[6632, 2240]	7685	[7927, 5242]
1539	[2620, 2621]	3588	[4980, 1726]	5637	[4575, 1794]	7686	[7224, 2022]
1540	[849, 2317]	3589	[4981, 4208]	5638	[6633, 521]	7687	[7928, 4511]
1541	[2622, 2623]	3590	[4982, 4678]	5639	[6634, 599]	7688	[5897, 1414]
1542	[2624, 2625]	3591	[4983, 688]	5640	[5008, 213]	7689	[7929, 4015]
1543	[2626, 2627]	3592	[2790, 690]	5641	[6635, 4814]	7690	[7930, 3707]
1544	[2628, 2043]	3593	[4984, 2705]	5642	[6636, 2350]	7691	[7931, 3853]
1545	[2528, 864]	3594	[4985, 4986]	5643	[6637, 4918]	7692	[6231, 1084]
1546	[2529, 2629]	3595	[44, 642]	5644	[2674, 2247]	7693	[7932, 3272]
1547	[2243, 2630]	3596	[2439, 1762]	5645	[6638, 6639]	7694	[7933, 3930]
1548	[2631, 56]	3597	[4987, 4988]	5646	[6640, 2536]	7695	[1032, 367]
1549	[2632, 867]	3598	[4989, 4990]	5647	[4386, 2774]	7696	[7934, 1459]
1550	[2633, 2634]	3599	[4991, 687]	5648	[6641, 4862]	7697	[7935, 1210]
1551	[2635, 2636]	3600	[4992, 4993]	5649	[6642, 2040]	7698	[7936, 1490]
1552	[2637, 2638]	3601	[4285, 2372]	5650	[6519, 5126]	7699	[3185, 2963]

1553	[2639, 652]	3602	[4994, 4762]	5651	[6643, 6619]	7700	[7937, 3849]
1554	[637, 2364]	3603	[4995, 545]	5652	[2222, 6644]	7701	[7938, 3496]
1555	[2640, 2641]	3604	[548, 4314]	5653	[6645, 659]	7702	[7939, 3828]
1556	[792, 2642]	3605	[1924, 4996]	5654	[6646, 817]	7703	[3700, 6080]
1557	[2643, 167]	3606	[4997, 2538]	5655	[6647, 708]	7704	[3508, 3101]
1558	[2644, 1796]	3607	[4998, 4999]	5656	[6648, 6649]	7705	[7940, 438]
1559	[2645, 2646]	3608	[753, 5000]	5657	[4540, 5003]	7706	[7941, 5835]
1560	[2647, 2344]	3609	[1779, 1817]	5658	[6650, 1890]	7707	[7942, 3133]
1561	[2648, 2649]	3610	[2812, 48]	5659	[6651, 4362]	7708	[3350, 3400]
1562	[2650, 136]	3611	[1721, 5001]	5660	[6652, 5000]	7709	[5517, 3492]
1563	[2651, 2652]	3612	[5002, 2142]	5661	[6653, 2417]	7710	[7943, 2884]
1564	[824, 810]	3613	[4294, 4823]	5662	[143, 4377]	7711	[1393, 484]
1565	[2653, 2654]	3614	[5003, 5004]	5663	[6654, 4340]	7712	[7944, 1055]
1566	[2655, 2010]	3615	[1760, 4900]	5664	[5437, 5170]	7713	[7945, 3543]
1567	[2656, 503]	3616	[4336, 4534]	5665	[6655, 4327]	7714	[7946, 1322]
1568	[2657, 846]	3617	[5005, 5006]	5666	[751, 6596]	7715	[5617, 3731]
1569	[2658, 2659]	3618	[5007, 5008]	5667	[5070, 2611]	7716	[7947, 3823]
1570	[626, 580]	3619	[5009, 796]	5668	[525, 6656]	7717	[3684, 3409]
1571	[2660, 2661]	3620	[5010, 2163]	5669	[6657, 6658]	7718	[7948, 3293]
1572	[2662, 2663]	3621	[5011, 2280]	5670	[6659, 2816]	7719	[7949, 3168]
1573	[2664, 2665]	3622	[5012, 2579]	5671	[6660, 6661]	7720	[5527, 3664]
1574	[2666, 2667]	3623	[5013, 204]	5672	[6662, 686]	7721	[7950, 468]
1575	[2668, 1802]	3624	[5014, 163]	5673	[6663, 4303]	7722	[1575, 998]
1576	[2669, 2670]	3625	[5015, 702]	5674	[229, 5102]	7723	[3007, 6369]
1577	[2671, 2672]	3626	[2036, 2638]	5675	[6664, 6555]	7724	[1128, 5696]
1578	[2673, 2674]	3627	[5016, 2011]	5676	[6665, 6613]	7725	[7951, 5569]
1579	[2675, 2676]	3628	[5017, 2506]	5677	[2100, 132]	7726	[4068, 1036]
1580	[863, 2677]	3629	[5018, 5019]	5678	[6666, 1990]	7727	[1451, 64]
1581	[2678, 2157]	3630	[5020, 781]	5679	[6667, 2635]	7728	[7952, 94]
1582	[2679, 2680]	3631	[5021, 2459]	5680	[1774, 2025]	7729	[7953, 1515]
1583	[1881, 745]	3632	[5022, 5023]	5681	[6668, 1948]	7730	[7954, 1200]
1584	[2020, 866]	3633	[5024, 2711]	5682	[6669, 2353]	7731	[7955, 3073]
1585	[2681, 228]	3634	[5025, 689]	5683	[4630, 2356]	7732	[7956, 3553]
1586	[2682, 1778]	3635	[5026, 4829]	5684	[2158, 31]	7733	[3032, 6156]
1587	[2683, 2684]	3636	[5027, 4906]	5685	[4514, 2794]	7734	[7957, 3605]
1588	[2685, 2686]	3637	[5028, 2346]	5686	[698, 751]	7735	[3866, 4054]
1589	[2687, 2335]	3638	[5029, 2341]	5687	[6670, 4637]	7736	[7958, 1144]
1590	[2688, 183]	3639	[1791, 2006]	5688	[6671, 770]	7737	[7959, 3445]
1591	[2272, 187]	3640	[5030, 1913]	5689	[2646, 6672]	7738	[3859, 116]
1592	[2689, 2313]	3641	[4842, 861]	5690	[2388, 2093]	7739	[1310, 1624]
1593	[2690, 2691]	3642	[5031, 2720]	5691	[5416, 6673]	7740	[7960, 3006]
1594	[762, 2692]	3643	[200, 1894]	5692	[6674, 2575]	7741	[346, 3398]
1595	[2693, 2694]	3644	[2110, 4562]	5693	[2007, 6499]	7742	[7961, 304]
1596	[2000, 712]	3645	[5032, 4973]	5694	[6675, 1861]	7743	[98, 3042]

1597	[2695, 2696]	3646	[5033, 2386]	5695	[6676, 5129]	7744	[7962, 6191]
1598	[2697, 1858]	3647	[5034, 4418]	5696	[6677, 4658]	7745	[7963, 1330]
1599	[796, 2698]	3648	[2684, 2771]	5697	[6678, 2174]	7746	[7964, 3742]
1600	[2699, 681]	3649	[5035, 4334]	5698	[6679, 685]	7747	[3035, 1535]
1601	[2700, 2701]	3650	[4653, 603]	5699	[6680, 1780]	7748	[374, 255]
1602	[2702, 2703]	3651	[5036, 2095]	5700	[6681, 2131]	7749	[7965, 1228]
1603	[2704, 2705]	3652	[5037, 4294]	5701	[190, 4488]	7750	[3578, 5524]
1604	[2706, 2707]	3653	[5038, 2320]	5702	[6682, 2768]	7751	[3636, 1342]
1605	[2708, 2709]	3654	[5039, 4542]	5703	[5247, 6683]	7752	[5497, 4108]
1606	[2087, 646]	3655	[5040, 5041]	5704	[6684, 6561]	7753	[1554, 2981]
1607	[2710, 2509]	3656	[714, 5042]	5705	[6685, 794]	7754	[7966, 1063]
1608	[2711, 2712]	3657	[5043, 5044]	5706	[513, 2114]	7755	[1378, 3444]
1609	[2713, 2714]	3658	[5045, 2281]	5707	[6644, 4474]	7756	[7967, 464]
1610	[2715, 2716]	3659	[5046, 4848]	5708	[6686, 4839]	7757	[7512, 5624]
1611	[2717, 2718]	3660	[4454, 4955]	5709	[6687, 6564]	7758	[7968, 1164]
1612	[2719, 2312]	3661	[5047, 2140]	5710	[6625, 1824]	7759	[7969, 3126]
1613	[2536, 2720]	3662	[2344, 1715]	5711	[4648, 606]	7760	[7970, 273]
1614	[2721, 2511]	3663	[5048, 4494]	5712	[6688, 535]	7761	[7971, 1278]
1615	[2722, 1903]	3664	[5049, 5050]	5713	[6689, 840]	7762	[5726, 5780]
1616	[2723, 797]	3665	[2550, 2085]	5714	[4684, 6492]	7763	[5907, 1627]
1617	[1756, 1924]	3666	[5051, 5052]	5715	[1879, 5402]	7764	[1396, 5837]
1618	[2724, 2018]	3667	[509, 2737]	5716	[6565, 4346]	7765	[7972, 1430]
1619	[2725, 868]	3668	[4461, 5053]	5717	[6690, 6625]	7766	[7973, 5900]
1620	[2726, 2727]	3669	[2600, 5054]	5718	[646, 6691]	7767	[7974, 2961]
1621	[2728, 2729]	3670	[5055, 5056]	5719	[6692, 886]	7768	[7975, 1314]
1622	[2730, 2384]	3671	[4383, 4792]	5720	[4418, 723]	7769	[1067, 1319]
1623	[2731, 2221]	3672	[46, 2361]	5721	[6693, 6694]	7770	[3843, 1193]
1624	[2732, 2557]	3673	[5057, 5058]	5722	[5392, 2523]	7771	[7976, 1065]
1625	[2140, 919]	3674	[5059, 2280]	5723	[6695, 6696]	7772	[7977, 3689]
1626	[2733, 2734]	3675	[5060, 1950]	5724	[4974, 2203]	7773	[4167, 2856]
1627	[2735, 2736]	3676	[5061, 160]	5725	[6697, 2276]	7774	[3534, 410]
1628	[2737, 2474]	3677	[2712, 4321]	5726	[6698, 5296]	7775	[5637, 3427]
1629	[2738, 592]	3678	[710, 5062]	5727	[6699, 1758]	7776	[3412, 1285]
1630	[2739, 2740]	3679	[2291, 5063]	5728	[6700, 720]	7777	[7978, 1003]
1631	[2741, 219]	3680	[5064, 221]	5729	[4956, 4565]	7778	[7979, 422]
1632	[2053, 2742]	3681	[696, 5011]	5730	[5319, 2289]	7779	[7329, 1192]
1633	[2743, 2744]	3682	[2516, 5065]	5731	[6701, 4573]	7780	[6216, 3630]
1634	[2745, 2746]	3683	[5066, 5067]	5732	[6702, 847]	7781	[6031, 3349]
1635	[2747, 2748]	3684	[4723, 797]	5733	[6703, 1935]	7782	[474, 3623]
1636	[2749, 1820]	3685	[5068, 4720]	5734	[6704, 638]	7783	[7980, 3999]
1637	[2750, 1998]	3686	[5069, 5070]	5735	[6705, 4259]	7784	[1016, 1336]
1638	[2751, 2752]	3687	[5071, 590]	5736	[6706, 2272]	7785	[7981, 3507]
1639	[2753, 2754]	3688	[5072, 4589]	5737	[6707, 780]	7786	[7982, 4014]
1640	[933, 2755]	3689	[5073, 4284]	5738	[6708, 5224]	7787	[7983, 5809]

1641	[2756, 897]	3690	[227, 4853]	5739	[6709, 5372]	7788	[7984, 3886]
1642	[2380, 2605]	3691	[1941, 2254]	5740	[6710, 2302]	7789	[6162, 5702]
1643	[2757, 792]	3692	[5074, 5075]	5741	[4438, 706]	7790	[7985, 1382]
1644	[2758, 2759]	3693	[5076, 2767]	5742	[6711, 707]	7791	[5839, 1369]
1645	[2760, 2761]	3694	[800, 5077]	5743	[6712, 2179]	7792	[5607, 5779]
1646	[2762, 2487]	3695	[5078, 4894]	5744	[6713, 4392]	7793	[3147, 4190]
1647	[2763, 1786]	3696	[4717, 2576]	5745	[6714, 4203]	7794	[7986, 1241]
1648	[2764, 2765]	3697	[5079, 2020]	5746	[5260, 2486]	7795	[7987, 3872]
1649	[2766, 2767]	3698	[1842, 38]	5747	[4311, 2688]	7796	[7988, 1289]
1650	[2609, 2768]	3699	[5080, 5062]	5748	[6715, 732]	7797	[3568, 77]
1651	[2769, 1975]	3700	[2497, 142]	5749	[6649, 4621]	7798	[3460, 3864]
1652	[2589, 2047]	3701	[4698, 2466]	5750	[6716, 4945]	7799	[7989, 1102]
1653	[2770, 2771]	3702	[2807, 2371]	5751	[4552, 2080]	7800	[453, 1123]
1654	[2772, 2773]	3703	[5081, 171]	5752	[633, 2775]	7801	[3265, 6021]
1655	[2774, 1719]	3704	[5082, 5083]	5753	[6717, 4672]	7802	[1134, 1469]
1656	[2775, 2416]	3705	[5084, 4786]	5754	[5300, 928]	7803	[7990, 1101]
1657	[2776, 2777]	3706	[618, 2072]	5755	[6718, 2115]	7804	[7991, 3090]
1658	[576, 692]	3707	[851, 5085]	5756	[6673, 4773]	7805	[7992, 1222]
1659	[2778, 944]	3708	[4865, 5058]	5757	[6719, 4455]	7806	[1553, 6056]
1660	[2667, 2779]	3709	[620, 2820]	5758	[6720, 6721]	7807	[1529, 5813]
1661	[2780, 2781]	3710	[5086, 4944]	5759	[4733, 4662]	7808	[7993, 1577]
1662	[2782, 2744]	3711	[5087, 5088]	5760	[6722, 4821]	7809	[7994, 93]
1663	[2783, 2420]	3712	[2433, 2660]	5761	[6723, 5221]	7810	[7995, 3261]
1664	[2784, 2469]	3713	[5056, 1912]	5762	[4882, 4409]	7811	[7996, 1555]
1665	[2785, 2786]	3714	[4388, 2518]	5763	[6724, 2416]	7812	[7997, 3410]
1666	[787, 2787]	3715	[5089, 2207]	5764	[6725, 6583]	7813	[1670, 3064]
1667	[2788, 2789]	3716	[2265, 149]	5765	[6726, 4778]	7814	[7998, 5603]
1668	[1789, 2790]	3717	[5090, 1928]	5766	[6727, 1885]	7815	[7999, 1506]
1669	[2501, 2791]	3718	[2571, 2327]	5767	[4276, 2178]	7816	[1114, 3087]
1670	[2792, 2793]	3719	[2257, 5091]	5768	[6728, 8]	7817	[8000, 6037]
1671	[2794, 2795]	3720	[5092, 2094]	5769	[6729, 934]	7818	[1192, 6162]
1672	[1871, 2312]	3721	[2025, 4284]	5770	[4495, 4557]	7819	[8001, 1078]
1673	[2796, 2797]	3722	[683, 848]	5771	[6730, 1779]	7820	[8002, 1046]
1674	[2798, 1841]	3723	[5093, 2790]	5772	[6731, 2402]	7821	[8003, 1128]
1675	[2799, 242]	3724	[5094, 5095]	5773	[6732, 2483]	7822	[265, 299]
1676	[2800, 1989]	3725	[5096, 4971]	5774	[6733, 5211]	7823	[8004, 3263]
1677	[2801, 827]	3726	[2707, 5097]	5775	[924, 4226]	7824	[7285, 1696]
1678	[14, 1939]	3727	[5098, 5099]	5776	[6734, 6735]	7825	[8005, 6216]
1679	[2802, 802]	3728	[4656, 4870]	5777	[822, 1710]	7826	[8006, 3147]
1680	[2803, 2804]	3729	[5100, 4728]	5778	[6736, 6737]	7827	[1164, 6298]
1681	[2805, 632]	3730	[5101, 5102]	5779	[6738, 1866]	7828	[8007, 3917]
1682	[2806, 2663]	3731	[5103, 2794]	5780	[6739, 4202]	7829	[1231, 2861]
1683	[1993, 2807]	3732	[2773, 5104]	5781	[6740, 4805]	7830	[8008, 319]
1684	[2808, 2809]	3733	[5105, 2231]	5782	[6741, 2304]	7831	[5836, 1159]

1685	[2810, 874]	3734	[5106, 5107]	5783	[6742, 2789]	7832	[8009, 3606]
1686	[2786, 2559]	3735	[5108, 4535]	5784	[6696, 4859]	7833	[8010, 1386]
1687	[816, 2811]	3736	[2474, 718]	5785	[6743, 607]	7834	[3127, 3009]
1688	[1959, 2812]	3737	[5109, 2266]	5786	[6744, 4540]	7835	[5969, 3282]
1689	[2813, 2814]	3738	[4876, 2210]	5787	[6745, 4653]	7836	[1611, 6103]
1690	[2815, 2816]	3739	[918, 1809]	5788	[829, 6746]	7837	[8011, 3092]
1691	[2817, 2380]	3740	[5110, 1902]	5789	[6747, 6748]	7838	[8012, 3777]
1692	[2818, 2819]	3741	[5111, 5112]	5790	[6749, 6529]	7839	[1318, 427]
1693	[2820, 1770]	3742	[5113, 54]	5791	[2376, 2098]	7840	[4132, 1483]
1694	[2821, 2822]	3743	[5114, 5115]	5792	[6750, 4911]	7841	[8013, 1051]
1695	[2823, 721]	3744	[5116, 4393]	5793	[4955, 1852]	7842	[8014, 3385]
1696	[2824, 2513]	3745	[5117, 2686]	5794	[6751, 6590]	7843	[4127, 21]
1697	[2825, 1940]	3746	[5118, 533]	5795	[6752, 6753]	7844	[8015, 2869]
1698	[716, 829]	3747	[5119, 2330]	5796	[5104, 4761]	7845	[8016, 3450]
1699	[2826, 2805]	3748	[5120, 667]	5797	[718, 4791]	7846	[8017, 1294]
1700	[2827, 1831]	3749	[5121, 2596]	5798	[6590, 710]	7847	[3793, 1163]
1701	[2828, 1870]	3750	[5122, 4236]	5799	[6754, 756]	7848	[979, 327]
1702	[2829, 1872]	3751	[5123, 5124]	5800	[5413, 590]	7849	[8018, 3440]
1703	[2830, 1967]	3752	[5125, 2385]	5801	[6535, 916]	7850	[3205, 6053]
1704	[2214, 676]	3753	[2120, 1959]	5802	[6575, 1982]	7851	[328, 1558]
1705	[2831, 347]	3754	[2055, 2539]	5803	[6755, 666]	7852	[3308, 453]
1706	[2832, 2833]	3755	[5126, 917]	5804	[907, 2545]	7853	[8019, 3902]
1707	[2834, 2835]	3756	[1816, 2194]	5805	[6756, 5204]	7854	[8020, 3294]
1708	[448, 1222]	3757	[5127, 4691]	5806	[6757, 1997]	7855	[8021, 1080]
1709	[2836, 1076]	3758	[2114, 2612]	5807	[6584, 4240]	7856	[2915, 18]
1710	[2837, 2838]	3759	[5128, 2702]	5808	[6758, 4240]	7857	[8022, 3677]
1711	[2839, 2840]	3760	[5129, 2704]	5809	[6759, 2818]	7858	[4110, 4043]
1712	[2841, 2842]	3761	[5130, 578]	5810	[6760, 4305]	7859	[8023, 6277]
1713	[2843, 2844]	3762	[5131, 1810]	5811	[6761, 4369]	7860	[8024, 2928]
1714	[1209, 2845]	3763	[5132, 4551]	5812	[6762, 5163]	7861	[8025, 3865]
1715	[457, 2846]	3764	[765, 4583]	5813	[6763, 4775]	7862	[422, 4080]
1716	[2847, 449]	3765	[5133, 4346]	5814	[6764, 4307]	7863	[8026, 3793]
1717	[2848, 2849]	3766	[5134, 57]	5815	[914, 4805]	7864	[8027, 1270]
1718	[2850, 2851]	3767	[5135, 4566]	5816	[6765, 6649]	7865	[8028, 3215]
1719	[2852, 2853]	3768	[5136, 1833]	5817	[4518, 773]	7866	[5599, 3582]
1720	[2854, 2855]	3769	[5137, 1937]	5818	[6766, 4501]	7867	[8029, 372]
1721	[2856, 2857]	3770	[4503, 179]	5819	[6767, 747]	7868	[3018, 1641]
1722	[2858, 2859]	3771	[2239, 2384]	5820	[6768, 5029]	7869	[8030, 5793]
1723	[2860, 2861]	3772	[5138, 2226]	5821	[6769, 4489]	7870	[4168, 1007]
1724	[2862, 2863]	3773	[5139, 2130]	5822	[6770, 5154]	7871	[8031, 3148]
1725	[2864, 2865]	3774	[5140, 5141]	5823	[6771, 4857]	7872	[3864, 3339]
1726	[2866, 2867]	3775	[196, 173]	5824	[5004, 12]	7873	[3477, 1685]
1727	[2868, 2869]	3776	[781, 1993]	5825	[4478, 144]	7874	[8032, 3661]
1728	[2870, 2871]	3777	[5142, 4773]	5826	[6772, 5424]	7875	[8033, 1072]

1729	[2872, 2873]	3778	[2027, 563]	5827	[6773, 5070]	7876	[8034, 1331]
1730	[1648, 2874]	3779	[5143, 2294]	5828	[2779, 2530]	7877	[3370, 331]
1731	[2875, 2876]	3780	[845, 4999]	5829	[6774, 5220]	7878	[491, 3471]
1732	[2877, 280]	3781	[5144, 820]	5830	[6775, 199]	7879	[8035, 1371]
1733	[2878, 1028]	3782	[5145, 5146]	5831	[6776, 5021]	7880	[8036, 7512]
1734	[2879, 2880]	3783	[243, 2593]	5832	[798, 4247]	7881	[6135, 3143]
1735	[2881, 2882]	3784	[5147, 4633]	5833	[6777, 5065]	7882	[5833, 1518]
1736	[2883, 2884]	3785	[5148, 2303]	5834	[1916, 5009]	7883	[5978, 1673]
1737	[2885, 2886]	3786	[5149, 5052]	5835	[2698, 5229]	7884	[8037, 3384]
1738	[2887, 2888]	3787	[5150, 5151]	5836	[6778, 2249]	7885	[8038, 3296]
1739	[2889, 2890]	3788	[5152, 706]	5837	[6779, 843]	7886	[8039, 3277]
1740	[2891, 2892]	3789	[5153, 4837]	5838	[6780, 1909]	7887	[8040, 6294]
1741	[2893, 1340]	3790	[5088, 5154]	5839	[6781, 4617]	7888	[8041, 1451]
1742	[2894, 2895]	3791	[5155, 816]	5840	[6782, 759]	7889	[3764, 4031]
1743	[2896, 2897]	3792	[5156, 4215]	5841	[4626, 2264]	7890	[1292, 3011]
1744	[2898, 2899]	3793	[4906, 2071]	5842	[6783, 2068]	7891	[8042, 1272]
1745	[2900, 1327]	3794	[5157, 4823]	5843	[6784, 911]	7892	[8043, 1018]
1746	[2901, 2902]	3795	[5158, 4636]	5844	[4943, 6785]	7893	[3448, 3494]
1747	[2903, 2904]	3796	[4394, 2407]	5845	[6786, 2662]	7894	[5846, 3483]
1748	[2905, 2906]	3797	[5159, 2199]	5846	[6787, 528]	7895	[8044, 3995]
1749	[2907, 2908]	3798	[2618, 4804]	5847	[6788, 6626]	7896	[8045, 5541]
1750	[2909, 2910]	3799	[54, 5160]	5848	[6789, 4652]	7897	[3162, 5938]
1751	[2911, 2912]	3800	[5161, 4377]	5849	[6790, 931]	7898	[1324, 405]
1752	[2913, 1601]	3801	[5162, 4821]	5850	[6791, 2274]	7899	[3241, 5653]
1753	[2914, 2915]	3802	[700, 2132]	5851	[1911, 6792]	7900	[8046, 1038]
1754	[2916, 2917]	3803	[214, 5163]	5852	[2125, 1872]	7901	[8047, 1346]
1755	[2918, 119]	3804	[5164, 2224]	5853	[6793, 2298]	7902	[8048, 4035]
1756	[2919, 2920]	3805	[5165, 798]	5854	[6794, 2621]	7903	[3906, 993]
1757	[2921, 2922]	3806	[865, 5166]	5855	[6795, 546]	7904	[8049, 1361]
1758	[2923, 1179]	3807	[5167, 691]	5856	[6796, 2185]	7905	[8050, 1403]
1759	[2924, 1134]	3808	[2436, 4441]	5857	[4700, 2368]	7906	[8051, 1283]
1760	[2925, 2926]	3809	[2525, 2727]	5858	[5220, 4722]	7907	[3081, 3182]
1761	[1076, 2927]	3810	[4356, 777]	5859	[6797, 4498]	7908	[3779, 1702]
1762	[2928, 2929]	3811	[5168, 803]	5860	[6798, 2195]	7909	[8052, 3348]
1763	[2930, 2931]	3812	[4870, 5115]	5861	[6658, 1813]	7910	[1035, 6010]
1764	[1003, 2932]	3813	[2677, 4659]	5862	[6799, 6800]	7911	[6170, 82]
1765	[2933, 2934]	3814	[5169, 5170]	5863	[6801, 1707]	7912	[8053, 7414]
1766	[2935, 2936]	3815	[5171, 5172]	5864	[2452, 6802]	7913	[5529, 1033]
1767	[2937, 1212]	3816	[5173, 5054]	5865	[6803, 5126]	7914	[6084, 2876]
1768	[80, 1257]	3817	[5174, 922]	5866	[4922, 4926]	7915	[8054, 3758]
1769	[1297, 2938]	3818	[5175, 4728]	5867	[6804, 727]	7916	[3151, 5911]
1770	[2939, 2940]	3819	[4892, 4544]	5868	[6805, 4585]	7917	[8055, 2932]
1771	[2941, 1564]	3820	[5176, 2746]	5869	[6806, 4895]	7918	[8056, 1433]
1772	[2942, 2943]	3821	[869, 2509]	5870	[6807, 2050]	7919	[8057, 3437]

1773	[2944, 2945]	3822	[5177, 1784]	5871	[6808, 4446]	7920	[1109, 3693]
1774	[2946, 2947]	3823	[223, 4993]	5872	[6809, 4230]	7921	[307, 1057]
1775	[2948, 2949]	3824	[5178, 662]	5873	[6810, 4241]	7922	[5702, 6141]
1776	[2950, 2873]	3825	[1847, 2219]	5874	[6811, 6812]	7923	[5499, 4049]
1777	[2951, 1642]	3826	[5179, 5180]	5875	[6813, 6557]	7924	[2920, 3588]
1778	[2952, 2953]	3827	[5181, 5182]	5876	[1710, 2809]	7925	[8058, 3529]
1779	[2931, 2954]	3828	[4205, 4327]	5877	[6814, 2787]	7926	[1350, 1074]
1780	[2955, 2956]	3829	[820, 762]	5878	[6815, 6631]	7927	[8059, 1551]
1781	[2957, 2958]	3830	[5183, 4210]	5879	[2744, 1750]	7928	[6046, 3076]
1782	[2959, 1234]	3831	[5184, 5185]	5880	[6816, 4299]	7929	[8060, 5104]
1783	[2960, 2961]	3832	[2581, 2214]	5881	[6817, 4298]	7930	[8061, 7008]
1784	[2962, 2963]	3833	[5186, 2793]	5882	[6818, 6819]	7931	[8062, 6727]
1785	[2964, 1261]	3834	[5187, 5188]	5883	[2262, 5423]	7932	[8063, 1827]
1786	[2965, 2966]	3835	[5189, 2430]	5884	[1839, 4510]	7933	[7046, 5151]
1787	[2967, 2968]	3836	[5190, 2408]	5885	[6820, 4820]	7934	[8064, 4389]
1788	[2969, 2970]	3837	[5191, 942]	5886	[6821, 5038]	7935	[141, 7864]
1789	[2971, 1289]	3838	[4348, 5051]	5887	[5198, 1737]	7936	[4535, 576]
1790	[2972, 2973]	3839	[5192, 1839]	5888	[6822, 5395]	7937	[8065, 250]
1791	[2974, 2975]	3840	[2136, 2109]	5889	[861, 6823]	7938	[8066, 4982]
1792	[2976, 1000]	3841	[5141, 557]	5890	[783, 6626]	7939	[628, 7099]
1793	[2977, 2978]	3842	[5193, 2369]	5891	[6824, 6638]	7940	[4414, 846]
1794	[2979, 2980]	3843	[5194, 1783]	5892	[6825, 4495]	7941	[533, 7139]
1795	[2981, 1633]	3844	[5195, 4450]	5893	[5287, 5162]	7942	[1787, 2204]
1796	[2982, 2983]	3845	[5196, 4371]	5894	[4903, 651]	7943	[8067, 5285]
1797	[2984, 2985]	3846	[5197, 5198]	5895	[6826, 6584]	7944	[7026, 1763]
1798	[2986, 266]	3847	[5199, 4242]	5896	[2365, 2797]	7945	[7838, 4710]
1799	[2987, 88]	3848	[5200, 4402]	5897	[893, 1864]	7946	[2194, 2749]
1800	[1487, 2988]	3849	[497, 4380]	5898	[6827, 894]	7947	[2403, 7803]
1801	[412, 28]	3850	[5201, 2774]	5899	[6828, 2331]	7948	[8068, 7212]
1802	[2989, 2990]	3851	[5202, 4759]	5900	[6829, 2699]	7949	[8069, 4878]
1803	[2991, 2992]	3852	[4848, 2675]	5901	[1989, 4532]	7950	[8070, 7158]
1804	[2993, 2994]	3853	[2215, 5203]	5902	[6830, 865]	7951	[8071, 6772]
1805	[1459, 2995]	3854	[2789, 5204]	5903	[6831, 660]	7952	[8072, 6962]
1806	[2996, 270]	3855	[5205, 5085]	5904	[6832, 2718]	7953	[8073, 2588]
1807	[2997, 2998]	3856	[5206, 1796]	5905	[2630, 6833]	7954	[8074, 5410]
1808	[2999, 1339]	3857	[5207, 731]	5906	[6834, 6835]	7955	[155, 232]
1809	[1662, 3000]	3858	[5208, 1838]	5907	[6836, 138]	7956	[8075, 5271]
1810	[1663, 3001]	3859	[5209, 2661]	5908	[6837, 4512]	7957	[8076, 4997]
1811	[16, 2907]	3860	[5210, 5211]	5909	[6838, 4446]	7958	[8077, 7864]
1812	[3002, 3003]	3861	[5212, 778]	5910	[4918, 6571]	7959	[5405, 4845]
1813	[3004, 3005]	3862	[5213, 2598]	5911	[6839, 2290]	7960	[8078, 2491]
1814	[3006, 1017]	3863	[5214, 4792]	5912	[6840, 552]	7961	[8079, 600]
1815	[1520, 3007]	3864	[5215, 1803]	5913	[130, 6574]	7962	[153, 2533]
1816	[3008, 3009]	3865	[5216, 4462]	5914	[6841, 4530]	7963	[8080, 4264]

1817	[3010, 3011]	3866	[2004, 5217]	5915	[6842, 5061]	7964	[8081, 5289]
1818	[2954, 3012]	3867	[5218, 4717]	5916	[6843, 4227]	7965	[8082, 4756]
1819	[3013, 3014]	3868	[5219, 2807]	5917	[6844, 2642]	7966	[8083, 7224]
1820	[2902, 353]	3869	[5166, 4882]	5918	[6845, 613]	7967	[6499, 2180]
1821	[3015, 3016]	3870	[879, 5220]	5919	[2597, 1896]	7968	[503, 2483]
1822	[3017, 3018]	3871	[2296, 2063]	5920	[235, 541]	7969	[8084, 4816]
1823	[3019, 3020]	3872	[5221, 5041]	5921	[4583, 4402]	7970	[7172, 2335]
1824	[3021, 3022]	3873	[5222, 5223]	5922	[6846, 4896]	7971	[1955, 2125]
1825	[1151, 3023]	3874	[1825, 926]	5923	[6847, 604]	7972	[7177, 868]
1826	[96, 1169]	3875	[4255, 2667]	5924	[6848, 188]	7973	[8085, 7811]
1827	[3024, 1173]	3876	[5067, 1759]	5925	[2819, 4356]	7974	[8086, 832]
1828	[3025, 1574]	3877	[5160, 589]	5926	[4973, 5223]	7975	[6812, 4887]
1829	[3026, 3027]	3878	[5095, 2205]	5927	[6849, 5078]	7976	[8087, 7205]
1830	[3028, 3029]	3879	[2765, 5224]	5928	[2569, 4940]	7977	[8088, 7880]
1831	[2932, 3030]	3880	[5225, 2072]	5929	[2231, 4359]	7978	[6505, 4317]
1832	[3031, 3032]	3881	[5226, 2671]	5930	[145, 596]	7979	[8089, 5466]
1833	[3033, 1109]	3882	[5227, 2675]	5931	[1883, 6735]	7980	[2777, 5316]
1834	[3034, 3035]	3883	[4491, 4963]	5932	[804, 128]	7981	[8090, 7871]
1835	[3036, 3037]	3884	[4303, 4683]	5933	[6850, 6746]	7982	[8091, 2]
1836	[3038, 3039]	3885	[5228, 5229]	5934	[6851, 2556]	7983	[8092, 6524]
1837	[3040, 304]	3886	[5124, 234]	5935	[2361, 4237]	7984	[4755, 5379]
1838	[3041, 3042]	3887	[833, 2442]	5936	[6852, 4659]	7985	[8093, 2398]
1839	[3043, 442]	3888	[5230, 2399]	5937	[2392, 2494]	7986	[8094, 2006]
1840	[3044, 3045]	3889	[2245, 5231]	5938	[6853, 4679]	7987	[12, 5244]
1841	[3046, 3047]	3890	[4762, 1861]	5939	[2734, 899]	7988	[8095, 7785]
1842	[1051, 280]	3891	[556, 5088]	5940	[2591, 6854]	7989	[7158, 5410]
1843	[3048, 3049]	3892	[5232, 4202]	5941	[6855, 6856]	7990	[8096, 6560]
1844	[3050, 266]	3893	[614, 501]	5942	[6857, 817]	7991	[8097, 6648]
1845	[3051, 1240]	3894	[5233, 4839]	5943	[6721, 4635]	7992	[6513, 1832]
1846	[3052, 3053]	3895	[5234, 5235]	5944	[6858, 2324]	7993	[2797, 206]
1847	[3054, 1315]	3896	[4990, 5236]	5945	[1841, 2058]	7994	[8098, 5352]
1848	[3055, 3056]	3897	[5237, 5238]	5946	[6859, 232]	7995	[5044, 5241]
1849	[3057, 3058]	3898	[5239, 5240]	5947	[6860, 5097]	7996	[2809, 6919]
1850	[1615, 1461]	3899	[5241, 2550]	5948	[4687, 4253]	7997	[4498, 4358]
1851	[3059, 1349]	3900	[5242, 249]	5949	[5331, 4714]	7998	[8099, 2484]
1852	[2966, 3060]	3901	[5243, 2310]	5950	[4905, 5050]	7999	[597, 4589]
1853	[3061, 1238]	3902	[2605, 4626]	5951	[6861, 1755]	8000	[8100, 4777]
1854	[1130, 3062]	3903	[4373, 4515]	5952	[6862, 4308]	8001	[8101, 5262]
1855	[3063, 3064]	3904	[5244, 4905]	5953	[6863, 4651]	8002	[2322, 1882]
1856	[3065, 3066]	3905	[5236, 4338]	5954	[6835, 4455]	8003	[4988, 7209]
1857	[2849, 3067]	3906	[5245, 570]	5955	[6864, 2002]	8004	[730, 6659]
1858	[3068, 487]	3907	[5246, 5247]	5956	[6865, 702]	8005	[7754, 5188]
1859	[3069, 1210]	3908	[5248, 5207]	5957	[4544, 4964]	8006	[8102, 6768]
1860	[3070, 3071]	3909	[5249, 5250]	5958	[2337, 166]	8007	[8103, 5236]

1861	[3072, 3073]	3910	[5251, 755]	5959	[4730, 156]	8008	[675, 629]
1862	[3074, 3075]	3911	[5252, 5232]	5960	[1723, 4268]	8009	[8104, 606]
1863	[3076, 3077]	3912	[5253, 4943]	5961	[2294, 6866]	8010	[8105, 2404]
1864	[1508, 3078]	3913	[5254, 4219]	5962	[2654, 5277]	8011	[8106, 5290]
1865	[3079, 3080]	3914	[4213, 5255]	5963	[601, 5044]	8012	[8107, 7912]
1866	[2998, 3081]	3915	[5256, 4329]	5964	[644, 6755]	8013	[7820, 551]
1867	[3082, 1491]	3916	[5180, 5257]	5965	[6867, 2574]	8014	[5451, 7861]
1868	[3083, 3084]	3917	[5258, 5180]	5966	[2463, 2514]	8015	[8108, 4842]
1869	[364, 3085]	3918	[2565, 4213]	5967	[6868, 614]	8016	[8109, 2692]
1870	[3086, 3087]	3919	[2561, 5238]	5968	[2661, 6869]	8017	[4859, 6815]
1871	[3088, 67]	3920	[5259, 5260]	5969	[6870, 4533]	8018	[8110, 7874]
1872	[3089, 3090]	3921	[5238, 5261]	5970	[6871, 173]	8019	[8111, 7203]
1873	[3091, 2994]	3922	[5262, 2293]	5971	[6872, 2137]	8020	[8112, 4615]
1874	[84, 2940]	3923	[550, 5263]	5972	[6578, 6753]	8021	[580, 2237]
1875	[281, 3092]	3924	[1980, 574]	5973	[6639, 6873]	8022	[8113, 4840]
1876	[3093, 962]	3925	[554, 2553]	5974	[2281, 4466]	8023	[8114, 7754]
1877	[3094, 100]	3926	[5264, 5265]	5975	[5305, 5308]	8024	[8115, 7737]
1878	[3095, 3096]	3927	[5266, 690]	5976	[6874, 2450]	8025	[8116, 7861]
1879	[3097, 477]	3928	[5267, 2248]	5977	[6875, 906]	8026	[8117, 6600]
1880	[384, 3098]	3929	[5268, 674]	5978	[6876, 930]	8027	[2408, 6967]
1881	[3099, 2899]	3930	[2135, 4479]	5979	[806, 4873]	8028	[2287, 1774]
1882	[3100, 3101]	3931	[5269, 4878]	5980	[5000, 2083]	8029	[8118, 859]
1883	[2978, 3102]	3932	[5270, 4929]	5981	[6877, 6878]	8030	[8119, 2578]
1884	[3103, 1412]	3933	[853, 5271]	5982	[5352, 6879]	8031	[8120, 6802]
1885	[3104, 3105]	3934	[5272, 4932]	5983	[6880, 2429]	8032	[2002, 7874]
1886	[3106, 3107]	3935	[5273, 2143]	5984	[6881, 2174]	8033	[5271, 2040]
1887	[3108, 3109]	3936	[4335, 4262]	5985	[2422, 4928]	8034	[8121, 5461]
1888	[3110, 1050]	3937	[5274, 499]	5986	[6882, 4768]	8035	[2553, 7871]
1889	[3111, 3112]	3938	[5275, 2332]	5987	[5374, 4863]	8036	[8122, 6892]
1890	[3113, 3046]	3939	[5276, 1772]	5988	[541, 6772]	8037	[8123, 2683]
1891	[3114, 3115]	3940	[5277, 2564]	5989	[6883, 6884]	8038	[8124, 5459]
1892	[3116, 1296]	3941	[4396, 5258]	5990	[6885, 4613]	8039	[8125, 7817]
1893	[3117, 3118]	3942	[4704, 5146]	5991	[6886, 4529]	8040	[1836, 4780]
1894	[396, 1119]	3943	[2303, 5278]	5992	[6887, 2619]	8041	[8126, 6728]
1895	[3119, 3120]	3944	[5279, 2569]	5993	[5296, 2077]	8042	[8127, 6873]
1896	[3121, 3122]	3945	[5280, 5281]	5994	[4757, 4529]	8043	[5441, 2803]
1897	[3123, 3124]	3946	[4775, 4942]	5995	[6888, 4492]	8044	[8128, 52]
1898	[1414, 3125]	3947	[687, 5124]	5996	[6889, 2239]	8045	[2629, 4814]
1899	[102, 3126]	3948	[5282, 2701]	5997	[6890, 2514]	8046	[8129, 7697]
1900	[1399, 3127]	3949	[5283, 4456]	5998	[875, 1908]	8047	[5052, 4523]
1901	[3128, 3129]	3950	[552, 2717]	5999	[6891, 634]	8048	[8130, 4260]
1902	[3130, 3131]	3951	[5284, 4527]	6000	[6892, 6893]	8049	[5235, 2635]
1903	[3132, 3133]	3952	[5285, 4669]	6001	[6894, 2389]	8050	[8131, 2545]
1904	[1401, 1155]	3953	[5286, 5287]	6002	[2098, 2343]	8051	[8132, 5252]

1905	[3134, 3135]	3954	[5288, 2565]	6003	[6895, 1934]	8052	[4494, 7811]
1906	[3136, 1225]	3955	[4832, 734]	6004	[6896, 6863]	8053	[1813, 8132]
1907	[3137, 2914]	3956	[2051, 1952]	6005	[6897, 6898]	8054	[8133, 4716]
1908	[3138, 3139]	3957	[5289, 2490]	6006	[6899, 2071]	8055	[8134, 4428]
1909	[1595, 3140]	3958	[5290, 2064]	6007	[6900, 4608]	8056	[818, 1707]
1910	[3141, 3142]	3959	[5291, 4254]	6008	[6901, 4766]	8057	[8135, 2488]
1911	[3143, 3144]	3960	[5292, 728]	6009	[6902, 5077]	8058	[2479, 5297]
1912	[3145, 21]	3961	[5293, 213]	6010	[6903, 4683]	8059	[2748, 943]
1913	[3146, 4]	3962	[5294, 2653]	6011	[6904, 4678]	8060	[5545, 3135]
1914	[1416, 3147]	3963	[5295, 2099]	6012	[6905, 5098]	8061	[6044, 7285]
1915	[3148, 1655]	3964	[1730, 5296]	6013	[6906, 1987]	8062	[8136, 3592]
1916	[3080, 3149]	3965	[4885, 4990]	6014	[6907, 6808]	8063	[6113, 5505]
1917	[3150, 3151]	3966	[4921, 2169]	6015	[6908, 4438]	8064	[8137, 3899]
1918	[3152, 3153]	3967	[5297, 520]	6016	[6909, 6910]	8065	[8138, 3875]
1919	[3154, 956]	3968	[5298, 2139]	6017	[6911, 5037]	8066	[8139, 1547]
1920	[3155, 3156]	3969	[5299, 5300]	6018	[6912, 2325]	8067	[8140, 271]
1921	[3157, 2950]	3970	[5301, 596]	6019	[6913, 2286]	8068	[8141, 5756]
1922	[3158, 1406]	3971	[5302, 4388]	6020	[5457, 842]	8069	[950, 1269]
1923	[3159, 1217]	3972	[5303, 631]	6021	[6914, 4395]	8070	[8142, 3940]
1924	[3160, 3161]	3973	[5304, 1960]	6022	[6915, 1912]	8071	[6303, 5660]
1925	[1307, 3162]	3974	[2546, 707]	6023	[6916, 752]	8072	[3009, 2987]
1926	[3163, 3164]	3975	[5065, 5305]	6024	[2160, 5323]	8073	[2953, 1607]
1927	[3165, 3166]	3976	[5306, 203]	6025	[6596, 5336]	8074	[8143, 3614]
1928	[3167, 3168]	3977	[5077, 4755]	6026	[4804, 1891]	8075	[484, 256]
1929	[3169, 1094]	3978	[2816, 2757]	6027	[4259, 2389]	8076	[8144, 1680]
1930	[3170, 3171]	3979	[2223, 1881]	6028	[6917, 2449]	8077	[472, 364]
1931	[3172, 475]	3980	[4243, 1730]	6029	[6918, 1919]	8078	[8145, 3761]
1932	[2910, 3173]	3981	[5307, 5308]	6030	[6919, 5262]	8079	[5785, 1131]
1933	[3174, 2866]	3982	[5309, 5310]	6031	[6920, 2624]	8080	[8146, 3465]
1934	[3175, 427]	3983	[4258, 1749]	6032	[6921, 174]	8081	[8147, 1387]
1935	[3176, 1227]	3984	[630, 5202]	6033	[4619, 624]	8082	[8148, 1248]
1936	[3177, 3178]	3985	[1877, 2601]	6034	[4320, 2379]	8083	[3450, 4101]
1937	[1506, 3179]	3986	[5311, 869]	6035	[6922, 6785]	8084	[1178, 6301]
1938	[1620, 3037]	3987	[2771, 5067]	6036	[6923, 2083]	8085	[8149, 1126]
1939	[28, 3180]	3988	[744, 2198]	6037	[6924, 2757]	8086	[8150, 2858]
1940	[3181, 3182]	3989	[2352, 2759]	6038	[2795, 4706]	8087	[2853, 3091]
1941	[3014, 3183]	3990	[5312, 4386]	6039	[6925, 2225]	8088	[8151, 1333]
1942	[2947, 1427]	3991	[2309, 940]	6040	[6926, 4986]	8089	[1608, 2839]
1943	[3184, 3185]	3992	[4380, 2700]	6041	[6927, 5033]	8090	[5664, 2850]
1944	[3186, 2998]	3993	[5313, 4394]	6042	[6928, 6656]	8091	[6294, 1691]
1945	[1312, 3187]	3994	[5314, 4387]	6043	[48, 5021]	8092	[6406, 391]
1946	[1410, 3188]	3995	[5315, 2714]	6044	[6929, 2704]	8093	[1432, 3735]
1947	[3189, 3190]	3996	[1868, 5033]	6045	[6930, 676]	8094	[8152, 3081]
1948	[3191, 2905]	3997	[2112, 4700]	6046	[2226, 2266]	8095	[5495, 1125]

1949	[3192, 3193]	3998	[2049, 5221]	6047	[6931, 2338]	8096	[2985, 5731]
1950	[1348, 3194]	3999	[5217, 2286]	6048	[1939, 2623]	8097	[8153, 1040]
1951	[1097, 1010]	4000	[5316, 542]	6049	[6932, 180]	8098	[3274, 3214]
1952	[3195, 2981]	4001	[2521, 4765]	6050	[6933, 1731]	8099	[5749, 3232]
1953	[2994, 3196]	4002	[5317, 5278]	6051	[6570, 2680]	8100	[8154, 3589]
1954	[3197, 3198]	4003	[5318, 5319]	6052	[2108, 6934]	8101	[8155, 3078]
1955	[3199, 3089]	4004	[5320, 4796]	6053	[6935, 2228]	8102	[8156, 5857]
1956	[3200, 3201]	4005	[4780, 2581]	6054	[6936, 6937]	8103	[5728, 2991]
1957	[3171, 3094]	4006	[5321, 4215]	6055	[6938, 6659]	8104	[6211, 1424]
1958	[1600, 3202]	4007	[5322, 1892]	6056	[6939, 2386]	8105	[8157, 3741]
1959	[3203, 97]	4008	[5323, 5113]	6057	[572, 5107]	8106	[3520, 3403]
1960	[3204, 3205]	4009	[5324, 4880]	6058	[6940, 6941]	8107	[8158, 1458]
1961	[1540, 3206]	4010	[5091, 1731]	6059	[2077, 6727]	8108	[8159, 1571]
1962	[3207, 3208]	4011	[2652, 824]	6060	[6942, 5042]	8109	[3562, 1654]
1963	[1026, 335]	4012	[2586, 2652]	6061	[6943, 2017]	8110	[8160, 1071]
1964	[3209, 1617]	4013	[857, 2822]	6062	[6944, 6566]	8111	[3324, 5761]
1965	[3210, 3211]	4014	[2563, 2561]	6063	[2399, 5429]	8112	[8161, 4170]
1966	[3212, 3213]	4015	[5325, 2697]	6064	[6945, 2428]	8113	[8162, 288]
1967	[3214, 3215]	4016	[5326, 4230]	6065	[6946, 4554]	8114	[6093, 6071]
1968	[3216, 3217]	4017	[2538, 4461]	6066	[6947, 4209]	8115	[1119, 6366]
1969	[1531, 3099]	4018	[5327, 5328]	6067	[4216, 6948]	8116	[8163, 398]
1970	[3218, 3035]	4019	[5329, 2766]	6068	[6949, 5258]	8117	[8164, 1320]
1971	[3219, 3220]	4020	[4471, 2094]	6069	[903, 4929]	8118	[5859, 6328]
1972	[3221, 3222]	4021	[876, 4897]	6070	[4398, 5064]	8119	[8165, 414]
1973	[3223, 3224]	4022	[5330, 2175]	6071	[6950, 4588]	8120	[3847, 1275]
1974	[3225, 480]	4023	[778, 5319]	6072	[6951, 2442]	8121	[295, 3518]
1975	[3226, 3137]	4024	[4423, 4947]	6073	[6952, 1791]	8122	[8166, 3641]
1976	[3227, 495]	4025	[2761, 5331]	6074	[4533, 2814]	8123	[5716, 6237]
1977	[3228, 3229]	4026	[5332, 2410]	6075	[50, 4290]	8124	[1457, 4144]
1978	[3230, 1505]	4027	[5333, 5334]	6076	[149, 2104]	8125	[8167, 1388]
1979	[3231, 3232]	4028	[5335, 2737]	6077	[2247, 4828]	8126	[5729, 3805]
1980	[3011, 3040]	4029	[136, 2200]	6078	[6953, 5081]	8127	[8168, 1301]
1981	[429, 3233]	4030	[5336, 4385]	6079	[6954, 4767]	8128	[8169, 1524]
1982	[3234, 2894]	4031	[5337, 4569]	6080	[6955, 852]	8129	[5573, 2905]
1983	[3235, 3055]	4032	[5338, 2051]	6081	[6956, 5003]	8130	[8170, 30]
1984	[3236, 3237]	4033	[4298, 5240]	6082	[6957, 5469]	8131	[1523, 3219]
1985	[466, 3238]	4034	[5339, 1953]	6083	[6958, 6492]	8132	[8171, 5491]
1986	[3239, 3240]	4035	[5340, 4880]	6084	[6959, 893]	8133	[3237, 5941]
1987	[1330, 3241]	4036	[1833, 1723]	6085	[1858, 2461]	8134	[6356, 3416]
1988	[3242, 3243]	4037	[5341, 5342]	6086	[6960, 5348]	8135	[3702, 3767]
1989	[1556, 3244]	4038	[5343, 4471]	6087	[6961, 525]	8136	[7772, 5083]
1990	[3245, 1233]	4039	[5278, 5344]	6088	[6962, 1799]	8137	[6656, 5242]
1991	[3246, 120]	4040	[5345, 2504]	6089	[6963, 935]	8138	[8172, 936]
1992	[3058, 3122]	4041	[5346, 2258]	6090	[6964, 4467]	8139	[8173, 2554]

1993	[1449, 3247]	4042	[5347, 5348]	6091	[6965, 4427]	8140	[8174, 2539]
1994	[3248, 3132]	4043	[5349, 2212]	6092	[1886, 5129]	8141	[6568, 7880]
1995	[3249, 3250]	4044	[2, 2001]	6093	[6966, 628]	8142	[4621, 6618]
1996	[3251, 3252]	4045	[5350, 5351]	6094	[6967, 6968]	8143	[1920, 6524]
1997	[1428, 3253]	4046	[889, 5352]	6095	[4584, 6969]	8144	[147, 5111]
1998	[3254, 3255]	4047	[5353, 1998]	6096	[6566, 4302]	8145	[1794, 892]
1999	[3256, 1329]	4048	[5354, 5037]	6097	[5470, 6970]	8146	[2089, 2568]
2000	[3056, 3257]	4049	[5355, 2703]	6098	[6971, 4724]	8147	[8175, 5186]
2001	[3258, 1495]	4050	[5356, 2372]	6099	[6972, 2454]	8148	[8176, 5446]
2002	[3259, 3260]	4051	[5357, 2733]	6100	[650, 6973]	8149	[2506, 4818]
2003	[3261, 3262]	4052	[871, 715]	6101	[4361, 631]	8150	[1856, 1784]
2004	[1074, 3263]	4053	[4669, 4246]	6102	[6974, 1982]	8151	[8177, 5336]
2005	[3264, 3265]	4054	[5358, 1883]	6103	[6975, 5099]	8152	[8178, 5206]
2006	[3266, 3267]	4055	[5359, 4942]	6104	[6976, 4515]	8153	[6683, 5015]
2007	[2975, 265]	4056	[5360, 2438]	6105	[1733, 887]	8154	[4565, 6546]
2008	[3268, 1146]	4057	[940, 2133]	6106	[2484, 2665]	8155	[4367, 6892]
2009	[3269, 3270]	4058	[5361, 5217]	6107	[6977, 1822]	8156	[8179, 2828]
2010	[3271, 3272]	4059	[5362, 5363]	6108	[6978, 585]	8157	[8180, 5113]
2011	[3273, 3274]	4060	[5364, 4358]	6109	[814, 6834]	8158	[8181, 4925]
2012	[3275, 1169]	4061	[5365, 5004]	6110	[6979, 6833]	8159	[1829, 2662]
2013	[1110, 2934]	4062	[52, 831]	6111	[6980, 6782]	8160	[138, 1947]
2014	[3124, 430]	4063	[2252, 2646]	6112	[6981, 4694]	8161	[4325, 2671]
2015	[2835, 3026]	4064	[5366, 4725]	6113	[6982, 33]	8162	[8182, 8132]
2016	[3276, 3277]	4065	[5367, 4292]	6114	[6983, 4721]	8163	[4224, 4350]
2017	[3278, 3279]	4066	[1706, 175]	6115	[6984, 5437]	8164	[6527, 6884]
2018	[3280, 1332]	4067	[5368, 776]	6116	[6985, 225]	8165	[5001, 5137]
2019	[3281, 3282]	4068	[5369, 2162]	6117	[6986, 943]	8166	[8183, 7768]
2020	[3283, 3284]	4069	[5370, 1966]	6118	[6987, 5194]	8167	[2010, 5416]
2021	[3285, 2883]	4070	[2147, 598]	6119	[6988, 2191]	8168	[8184, 7095]
2022	[3286, 1224]	4071	[5371, 5372]	6120	[6989, 6586]	8169	[8185, 2601]
2023	[1652, 2924]	4072	[5373, 5374]	6121	[6990, 2396]	8170	[2512, 6552]
2024	[3287, 1683]	4073	[5250, 5375]	6122	[6991, 4874]	8171	[4459, 4756]
2025	[3288, 3289]	4074	[5376, 888]	6123	[6973, 2507]	8172	[261, 285]
2026	[3290, 3291]	4075	[5377, 1737]	6124	[5083, 4554]	8173	[8186, 3957]
2027	[3292, 3293]	4076	[5378, 4469]	6125	[722, 5060]	8174	[3075, 3510]
2028	[3294, 3295]	4077	[5379, 2186]	6126	[6992, 1991]	8175	[1483, 4157]
2029	[3001, 3296]	4078	[5380, 251]	6127	[6869, 5269]	8176	[3782, 5771]
2030	[1283, 3297]	4079	[5381, 4261]	6128	[6993, 2740]	8177	[6305, 4129]
2031	[3298, 118]	4080	[5382, 215]	6129	[6994, 6552]	8178	[5772, 1635]
2032	[3299, 3300]	4081	[4815, 2034]	6130	[6995, 909]	8179	[3780, 6226]
2033	[3301, 3302]	4082	[5334, 2541]	6131	[897, 2258]	8180	[8187, 109]
2034	[3303, 3304]	4083	[5328, 4292]	6132	[6996, 4269]	8181	[5920, 1610]
2035	[3305, 1458]	4084	[5383, 777]	6133	[6997, 6600]	8182	[8188, 3678]
2036	[3194, 3306]	4085	[4667, 4551]	6134	[6998, 5086]	8183	[334, 1016]

2037	[3307, 3308]	4086	[5384, 2215]	6135	[6999, 5091]	8184	[5848, 3472]
2038	[3309, 3310]	4087	[5385, 2497]	6136	[2456, 1979]	8185	[1479, 1612]
2039	[3311, 1531]	4088	[5386, 2677]	6137	[7000, 2395]	8186	[8189, 2164]
2040	[3312, 3313]	4089	[5387, 4417]	6138	[7001, 6755]	8187	[4424, 218]
2041	[3314, 3116]	4090	[5388, 5389]	6139	[7002, 2264]	8188	[8190, 5233]
2042	[3315, 86]	4091	[2627, 4347]	6140	[2619, 6863]	8189	[8191, 3843]
2043	[3316, 3057]	4092	[1978, 5144]	6141	[7003, 2376]	8190	[7294, 1242]
2044	[3317, 311]	4093	[5390, 1908]	6142	[7004, 7005]	8191	[878, 5328]
2045	[3318, 3000]	4094	[5391, 5392]	6143	[732, 5250]		
2046	[3319, 1529]	4095	[5393, 2762]	6144	[7006, 2526]		
2047	[3109, 3320]	4096	[5394, 2276]	6145	[1944, 1865]		
2048	[3321, 3322]	4097	[4203, 224]	6146	[4296, 1726]		

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	1366	0	2732	0	4098	0	5464	0	6830	1
1	0	1367	1	2733	0	4099	0	5465	0	6831	1
2	0	1368	1	2734	0	4100	1	5466	0	6832	1
3	0	1369	1	2735	0	4101	1	5467	0	6833	1
4	0	1370	0	2736	0	4102	0	5468	1	6834	1
5	0	1371	0	2737	1	4103	1	5469	0	6835	1
6	0	1372	0	2738	0	4104	1	5470	1	6836	0
7	0	1373	0	2739	1	4105	1	5471	0	6837	0
8	0	1374	0	2740	1	4106	1	5472	0	6838	0
9	0	1375	1	2741	1	4107	1	5473	0	6839	0
10	0	1376	0	2742	1	4108	0	5474	0	6840	1
11	0	1377	1	2743	1	4109	1	5475	1	6841	1
12	1	1378	1	2744	0	4110	0	5476	0	6842	0
13	0	1379	0	2745	1	4111	1	5477	0	6843	1
14	0	1380	1	2746	0	4112	0	5478	1	6844	0
15	0	1381	0	2747	1	4113	0	5479	0	6845	1
16	0	1382	0	2748	1	4114	1	5480	0	6846	0
17	0	1383	0	2749	1	4115	1	5481	1	6847	0
18	1	1384	0	2750	1	4116	1	5482	0	6848	0
19	0	1385	0	2751	1	4117	1	5483	1	6849	1
20	1	1386	0	2752	1	4118	1	5484	1	6850	1
21	0	1387	0	2753	0	4119	0	5485	1	6851	1
22	1	1388	1	2754	0	4120	1	5486	1	6852	1
23	0	1389	0	2755	1	4121	0	5487	0	6853	0
24	1	1390	1	2756	1	4122	1	5488	0	6854	1
25	1	1391	1	2757	1	4123	0	5489	1	6855	1
26	0	1392	1	2758	0	4124	1	5490	0	6856	1
27	0	1393	1	2759	1	4125	1	5491	1	6857	1
28	1	1394	1	2760	1	4126	1	5492	1	6858	0

29	0	1395	1	2761	1	4127	0	5493	1	6859	0
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31	0	1397	0	2763	0	4129	0	5495	0	6861	1
32	1	1398	1	2764	1	4130	0	5496	1	6862	1
33	0	1399	1	2765	1	4131	1	5497	1	6863	1
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36	1	1402	1	2768	1	4134	1	5500	1	6866	1
37	1	1403	1	2769	1	4135	0	5501	1	6867	0
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39	0	1405	1	2771	0	4137	0	5503	1	6869	0
40	1	1406	1	2772	0	4138	0	5504	0	6870	0
41	1	1407	1	2773	1	4139	0	5505	0	6871	0
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43	0	1409	0	2775	0	4141	0	5507	0	6873	1
44	0	1410	1	2776	0	4142	0	5508	0	6874	0
45	1	1411	0	2777	0	4143	1	5509	1	6875	1
46	0	1412	0	2778	1	4144	0	5510	0	6876	0
47	0	1413	0	2779	0	4145	0	5511	0	6877	0
48	1	1414	1	2780	0	4146	1	5512	0	6878	0
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51	1	1417	1	2783	0	4149	1	5515	1	6881	0
52	0	1418	1	2784	1	4150	1	5516	1	6882	1
53	0	1419	0	2785	1	4151	0	5517	1	6883	0
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57	1	1423	1	2789	0	4155	0	5521	1	6887	0
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60	1	1426	0	2792	0	4158	1	5524	1	6890	0
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70	1	1436	0	2802	0	4168	1	5534	0	6900	0
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75	1	1441	0	2807	1	4173	1	5539	1	6905	1
76	1	1442	1	2808	1	4174	1	5540	1	6906	0
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79	0	1445	0	2811	0	4177	0	5543	1	6909	0
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85	1	1451	0	2817	0	4183	0	5549	0	6915	0
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90	1	1456	1	2822	1	4188	1	5554	1	6920	1
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132	1	1498	0	2864	1	4230	0	5596	1	6962	1
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143	1	1509	0	2875	1	4241	0	5607	0	6973	0
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176	1	1542	1	2908	0	4274	1	5640	0	7006	1
177	0	1543	0	2909	1	4275	0	5641	0	7007	0
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186	1	1552	1	2918	1	4284	0	5650	1	7016	0
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202	0	1568	1	2934	0	4300	0	5666	1	7032	0
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207	0	1573	1	2939	1	4305	0	5671	1	7037	0
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209	0	1575	0	2941	0	4307	0	5673	0	7039	0
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212	1	1578	1	2944	1	4310	0	5676	0	7042	1
213	0	1579	0	2945	0	4311	0	5677	0	7043	0
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215	0	1581	1	2947	1	4313	0	5679	0	7045	1
216	0	1582	0	2948	1	4314	1	5680	1	7046	1
217	1	1583	1	2949	0	4315	0	5681	1	7047	0
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222	1	1588	1	2954	1	4320	0	5686	1	7052	0
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235	0	1601	0	2967	1	4333	1	5699	0	7065	1
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245	1	1611	0	2977	0	4343	0	5709	1	7075	0
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297	1	1663	0	3029	1	4395	1	5761	0	7127	1
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301	0	1667	0	3033	1	4399	0	5765	0	7131	0
302	1	1668	0	3034	1	4400	0	5766	0	7132	1
303	0	1669	1	3035	0	4401	1	5767	0	7133	0
304	1	1670	0	3036	1	4402	1	5768	1	7134	1
305	0	1671	1	3037	0	4403	0	5769	1	7135	0
306	1	1672	0	3038	1	4404	0	5770	1	7136	1
307	0	1673	0	3039	1	4405	0	5771	1	7137	0
308	1	1674	0	3040	0	4406	0	5772	1	7138	0
309	1	1675	1	3041	1	4407	1	5773	0	7139	1
310	1	1676	0	3042	1	4408	0	5774	0	7140	1
311	0	1677	1	3043	0	4409	1	5775	0	7141	0
312	1	1678	0	3044	1	4410	0	5776	1	7142	0
313	0	1679	0	3045	1	4411	0	5777	0	7143	0
314	0	1680	0	3046	0	4412	1	5778	0	7144	0
315	1	1681	1	3047	0	4413	1	5779	1	7145	0
316	1	1682	0	3048	1	4414	0	5780	0	7146	0
317	1	1683	0	3049	1	4415	1	5781	1	7147	1
318	1	1684	1	3050	0	4416	1	5782	1	7148	1
319	0	1685	0	3051	0	4417	0	5783	1	7149	0
320	0	1686	0	3052	1	4418	0	5784	0	7150	0
321	1	1687	1	3053	1	4419	1	5785	0	7151	0
322	1	1688	0	3054	0	4420	1	5786	1	7152	0
323	0	1689	0	3055	0	4421	1	5787	1	7153	0
324	0	1690	0	3056	0	4422	0	5788	0	7154	0
325	1	1691	0	3057	1	4423	1	5789	0	7155	0
326	1	1692	0	3058	0	4424	0	5790	0	7156	1
327	1	1693	0	3059	0	4425	1	5791	1	7157	0
328	0	1694	1	3060	0	4426	1	5792	1	7158	1
329	1	1695	0	3061	1	4427	1	5793	1	7159	1
330	0	1696	0	3062	1	4428	0	5794	0	7160	1
331	0	1697	1	3063	0	4429	1	5795	1	7161	0
332	0	1698	0	3064	1	4430	1	5796	0	7162	1
333	1	1699	1	3065	1	4431	1	5797	0	7163	0
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335	1	1701	0	3067	1	4433	0	5799	0	7165	1
336	0	1702	0	3068	0	4434	1	5800	1	7166	1

337	1	1703	0	3069	0	4435	0	5801	1	7167	1
338	1	1704	1	3070	1	4436	1	5802	1	7168	1
339	1	1705	0	3071	0	4437	1	5803	0	7169	1
340	0	1706	1	3072	1	4438	0	5804	0	7170	0
341	0	1707	0	3073	1	4439	1	5805	1	7171	0
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343	0	1709	1	3075	1	4441	0	5807	0	7173	0
344	1	1710	0	3076	1	4442	1	5808	1	7174	0
345	1	1711	1	3077	1	4443	1	5809	1	7175	0
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347	1	1713	1	3079	0	4445	0	5811	0	7177	0
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349	1	1715	0	3081	0	4447	0	5813	1	7179	0
350	0	1716	0	3082	0	4448	0	5814	1	7180	1
351	0	1717	1	3083	1	4449	0	5815	0	7181	0
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353	1	1719	1	3085	0	4451	0	5817	0	7183	0
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355	1	1721	0	3087	0	4453	0	5819	0	7185	0
356	0	1722	0	3088	0	4454	1	5820	1	7186	1
357	0	1723	0	3089	0	4455	1	5821	1	7187	0
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363	1	1729	1	3095	0	4461	0	5827	0	7193	0
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367	0	1733	1	3099	1	4465	0	5831	0	7197	0
368	1	1734	1	3100	1	4466	1	5832	1	7198	1
369	1	1735	0	3101	0	4467	0	5833	0	7199	1
370	0	1736	1	3102	0	4468	1	5834	1	7200	1
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374	1	1740	1	3106	0	4472	1	5838	1	7204	0
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377	1	1743	0	3109	0	4475	0	5841	1	7207	1
378	0	1744	1	3110	0	4476	0	5842	0	7208	1
379	1	1745	1	3111	0	4477	1	5843	1	7209	0
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381	0	1747	1	3113	0	4479	0	5845	1	7211	0
382	1	1748	0	3114	1	4480	0	5846	1	7212	1
383	1	1749	1	3115	0	4481	0	5847	0	7213	1
384	1	1750	1	3116	0	4482	1	5848	0	7214	1
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386	1	1752	0	3118	0	4484	1	5850	0	7216	0
387	1	1753	1	3119	0	4485	1	5851	0	7217	0
388	1	1754	0	3120	0	4486	0	5852	1	7218	1
389	1	1755	1	3121	0	4487	0	5853	0	7219	0
390	0	1756	1	3122	1	4488	0	5854	1	7220	0
391	1	1757	1	3123	1	4489	0	5855	0	7221	0
392	0	1758	0	3124	0	4490	0	5856	1	7222	0
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395	0	1761	0	3127	1	4493	1	5859	1	7225	1
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398	0	1764	0	3130	1	4496	0	5862	1	7228	1
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405	0	1771	0	3137	0	4503	1	5869	0	7235	1
406	0	1772	0	3138	0	4504	0	5870	1	7236	0
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408	0	1774	1	3140	0	4506	0	5872	0	7238	0
409	0	1775	1	3141	1	4507	0	5873	1	7239	0
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411	0	1777	0	3143	0	4509	1	5875	1	7241	1
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413	1	1779	0	3145	0	4511	0	5877	0	7243	1
414	1	1780	0	3146	0	4512	0	5878	0	7244	0
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416	0	1782	1	3148	0	4514	0	5880	0	7246	0
417	1	1783	1	3149	0	4515	1	5881	1	7247	1
418	1	1784	1	3150	1	4516	1	5882	1	7248	1
419	0	1785	0	3151	1	4517	1	5883	1	7249	1
420	0	1786	0	3152	0	4518	0	5884	0	7250	0
421	1	1787	1	3153	1	4519	0	5885	0	7251	0
422	0	1788	0	3154	1	4520	0	5886	0	7252	0
423	0	1789	0	3155	0	4521	1	5887	1	7253	1
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425	0	1791	0	3157	0	4523	0	5889	0	7255	1
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427	0	1793	0	3159	0	4525	0	5891	1	7257	1
428	0	1794	1	3160	1	4526	1	5892	0	7258	1
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431	1	1797	1	3163	1	4529	0	5895	1	7261	1
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433	1	1799	0	3165	0	4531	1	5897	0	7263	1
434	0	1800	0	3166	1	4532	1	5898	1	7264	0
435	1	1801	0	3167	1	4533	1	5899	0	7265	1
436	0	1802	1	3168	0	4534	0	5900	1	7266	1
437	0	1803	1	3169	0	4535	1	5901	1	7267	0
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440	1	1806	0	3172	0	4538	1	5904	1	7270	0
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442	0	1808	0	3174	0	4540	0	5906	1	7272	1
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444	1	1810	0	3176	0	4542	0	5908	0	7274	1
445	1	1811	0	3177	1	4543	0	5909	0	7275	0
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450	1	1816	1	3182	0	4548	0	5914	1	7280	0
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452	1	1818	1	3184	1	4550	0	5916	1	7282	1
453	0	1819	0	3185	1	4551	1	5917	0	7283	0
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455	0	1821	0	3187	1	4553	0	5919	1	7285	0
456	0	1822	1	3188	0	4554	0	5920	0	7286	0
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472	1	1838	1	3204	1	4570	1	5936	1	7302	0
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489	0	1855	0	3221	1	4587	1	5953	1	7319	0
490	1	1856	1	3222	1	4588	1	5954	1	7320	1
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506	1	1872	0	3238	1	4604	1	5970	0	7336	1
507	0	1873	0	3239	1	4605	1	5971	0	7337	0
508	1	1874	1	3240	0	4606	1	5972	0	7338	0
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515	1	1881	1	3247	1	4613	0	5979	1	7345	1
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522	1	1888	0	3254	1	4620	0	5986	1	7352	0
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528	0	1894	1	3260	1	4626	1	5992	0	7358	0
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535	1	1901	1	3267	1	4633	1	5999	0	7365	0
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537	0	1903	1	3269	0	4635	0	6001	0	7367	1
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542	0	1908	0	3274	0	4640	0	6006	1	7372	1
543	1	1909	0	3275	1	4641	1	6007	0	7373	0
544	0	1910	1	3276	0	4642	1	6008	1	7374	0
545	1	1911	0	3277	1	4643	0	6009	1	7375	0
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547	0	1913	0	3279	0	4645	0	6011	1	7377	0
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550	1	1916	1	3282	1	4648	0	6014	1	7380	0
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552	1	1918	0	3284	1	4650	0	6016	0	7382	0
553	0	1919	1	3285	0	4651	0	6017	0	7383	0
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555	0	1921	0	3287	0	4653	0	6019	0	7385	0
556	1	1922	0	3288	1	4654	1	6020	1	7386	1

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563	1	1929	0	3295	0	4661	0	6027	1	7393	0
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567	0	1933	0	3299	1	4665	1	6031	1	7397	0
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570	0	1936	1	3302	0	4668	0	6034	0	7400	0
571	1	1937	0	3303	1	4669	0	6035	1	7401	0
572	1	1938	1	3304	0	4670	1	6036	1	7402	1
573	1	1939	1	3305	0	4671	1	6037	1	7403	0
574	0	1940	0	3306	0	4672	1	6038	1	7404	1
575	0	1941	0	3307	1	4673	1	6039	1	7405	1
576	0	1942	1	3308	1	4674	1	6040	0	7406	0
577	0	1943	1	3309	0	4675	0	6041	0	7407	1
578	0	1944	0	3310	0	4676	0	6042	1	7408	1
579	1	1945	0	3311	0	4677	1	6043	1	7409	0
580	0	1946	1	3312	1	4678	1	6044	1	7410	1
581	1	1947	0	3313	0	4679	1	6045	0	7411	0
582	1	1948	1	3314	0	4680	1	6046	1	7412	0
583	1	1949	1	3315	1	4681	1	6047	0	7413	1
584	1	1950	0	3316	0	4682	0	6048	1	7414	1
585	1	1951	0	3317	0	4683	1	6049	0	7415	0
586	1	1952	0	3318	0	4684	0	6050	0	7416	1
587	0	1953	1	3319	1	4685	1	6051	1	7417	0
588	1	1954	1	3320	0	4686	1	6052	1	7418	1
589	0	1955	0	3321	1	4687	1	6053	0	7419	0
590	0	1956	1	3322	1	4688	0	6054	1	7420	1
591	1	1957	0	3323	1	4689	0	6055	1	7421	1
592	0	1958	0	3324	1	4690	1	6056	0	7422	0
593	0	1959	0	3325	1	4691	1	6057	1	7423	1
594	1	1960	1	3326	1	4692	1	6058	0	7424	1
595	1	1961	1	3327	1	4693	1	6059	1	7425	0
596	0	1962	1	3328	0	4694	1	6060	0	7426	1
597	0	1963	0	3329	1	4695	0	6061	1	7427	1
598	1	1964	1	3330	1	4696	0	6062	1	7428	0
599	1	1965	1	3331	1	4697	0	6063	1	7429	1
600	0	1966	0	3332	0	4698	1	6064	0	7430	1

601	0	1967	0	3333	0	4699	1	6065	1	7431	1
602	1	1968	0	3334	0	4700	0	6066	0	7432	0
603	0	1969	0	3335	1	4701	0	6067	0	7433	0
604	0	1970	1	3336	0	4702	1	6068	0	7434	1
605	0	1971	0	3337	0	4703	0	6069	1	7435	1
606	1	1972	1	3338	0	4704	0	6070	1	7436	1
607	1	1973	1	3339	1	4705	0	6071	1	7437	1
608	1	1974	0	3340	1	4706	0	6072	0	7438	0
609	1	1975	0	3341	1	4707	1	6073	0	7439	1
610	0	1976	1	3342	1	4708	1	6074	1	7440	0
611	0	1977	1	3343	1	4709	0	6075	0	7441	1
612	1	1978	0	3344	1	4710	1	6076	1	7442	1
613	1	1979	1	3345	1	4711	0	6077	1	7443	0
614	0	1980	0	3346	0	4712	0	6078	0	7444	0
615	0	1981	1	3347	0	4713	1	6079	1	7445	1
616	0	1982	0	3348	0	4714	1	6080	1	7446	1
617	0	1983	1	3349	1	4715	0	6081	1	7447	0
618	1	1984	1	3350	0	4716	0	6082	1	7448	0
619	1	1985	0	3351	0	4717	1	6083	1	7449	0
620	0	1986	1	3352	1	4718	1	6084	1	7450	1
621	1	1987	1	3353	0	4719	0	6085	0	7451	0
622	0	1988	1	3354	0	4720	1	6086	1	7452	1
623	1	1989	1	3355	0	4721	0	6087	1	7453	1
624	0	1990	0	3356	1	4722	0	6088	1	7454	1
625	1	1991	0	3357	0	4723	0	6089	0	7455	1
626	0	1992	0	3358	1	4724	1	6090	1	7456	1
627	0	1993	0	3359	1	4725	0	6091	0	7457	1
628	1	1994	0	3360	1	4726	0	6092	0	7458	1
629	0	1995	1	3361	0	4727	1	6093	1	7459	0
630	0	1996	0	3362	1	4728	1	6094	0	7460	0
631	1	1997	0	3363	1	4729	1	6095	1	7461	1
632	1	1998	1	3364	1	4730	1	6096	0	7462	1
633	0	1999	0	3365	0	4731	1	6097	1	7463	0
634	0	2000	0	3366	0	4732	1	6098	0	7464	1
635	1	2001	0	3367	0	4733	0	6099	1	7465	0
636	0	2002	0	3368	1	4734	0	6100	1	7466	1
637	0	2003	1	3369	1	4735	1	6101	1	7467	1
638	1	2004	0	3370	0	4736	1	6102	0	7468	1
639	1	2005	1	3371	1	4737	1	6103	1	7469	1
640	1	2006	1	3372	1	4738	0	6104	0	7470	0
641	1	2007	1	3373	1	4739	1	6105	1	7471	0
642	1	2008	1	3374	0	4740	0	6106	0	7472	1
643	0	2009	0	3375	0	4741	0	6107	0	7473	1
644	1	2010	0	3376	0	4742	1	6108	1	7474	1

645	1	2011	1	3377	0	4743	1	6109	0	7475	1
646	0	2012	1	3378	0	4744	1	6110	0	7476	1
647	0	2013	1	3379	1	4745	1	6111	0	7477	1
648	1	2014	0	3380	0	4746	1	6112	1	7478	0
649	0	2015	0	3381	0	4747	0	6113	0	7479	0
650	1	2016	0	3382	1	4748	0	6114	1	7480	0
651	0	2017	1	3383	1	4749	1	6115	1	7481	1
652	1	2018	0	3384	1	4750	0	6116	0	7482	0
653	1	2019	0	3385	0	4751	0	6117	0	7483	0
654	1	2020	1	3386	0	4752	0	6118	1	7484	0
655	1	2021	0	3387	0	4753	0	6119	0	7485	0
656	1	2022	0	3388	0	4754	0	6120	1	7486	0
657	1	2023	0	3389	0	4755	1	6121	0	7487	1
658	1	2024	0	3390	0	4756	1	6122	0	7488	0
659	0	2025	1	3391	1	4757	0	6123	0	7489	1
660	1	2026	1	3392	1	4758	1	6124	0	7490	0
661	1	2027	1	3393	0	4759	1	6125	0	7491	0
662	1	2028	0	3394	0	4760	1	6126	1	7492	0
663	1	2029	0	3395	0	4761	1	6127	0	7493	1
664	1	2030	1	3396	0	4762	0	6128	0	7494	0
665	1	2031	1	3397	0	4763	1	6129	1	7495	1
666	1	2032	1	3398	0	4764	0	6130	1	7496	0
667	0	2033	1	3399	0	4765	1	6131	0	7497	0
668	0	2034	1	3400	1	4766	0	6132	0	7498	0
669	0	2035	0	3401	0	4767	0	6133	0	7499	0
670	1	2036	0	3402	0	4768	1	6134	0	7500	0
671	0	2037	1	3403	1	4769	1	6135	0	7501	0
672	0	2038	0	3404	1	4770	1	6136	1	7502	0
673	1	2039	0	3405	0	4771	0	6137	0	7503	1
674	1	2040	1	3406	0	4772	1	6138	0	7504	0
675	0	2041	0	3407	1	4773	1	6139	0	7505	0
676	1	2042	1	3408	1	4774	1	6140	1	7506	1
677	1	2043	0	3409	0	4775	1	6141	1	7507	0
678	0	2044	0	3410	0	4776	0	6142	1	7508	1
679	0	2045	0	3411	1	4777	0	6143	0	7509	0
680	1	2046	1	3412	0	4778	0	6144	1	7510	0
681	0	2047	0	3413	0	4779	0	6145	0	7511	1
682	0	2048	1	3414	1	4780	1	6146	0	7512	0
683	0	2049	1	3415	0	4781	1	6147	1	7513	1
684	1	2050	1	3416	0	4782	0	6148	1	7514	0
685	0	2051	1	3417	0	4783	0	6149	0	7515	1
686	0	2052	1	3418	1	4784	1	6150	0	7516	1
687	0	2053	1	3419	0	4785	0	6151	1	7517	0
688	0	2054	1	3420	1	4786	0	6152	1	7518	1

689	1	2055	0	3421	1	4787	0	6153	0	7519	0
690	0	2056	0	3422	1	4788	0	6154	1	7520	0
691	1	2057	1	3423	1	4789	1	6155	1	7521	1
692	1	2058	0	3424	1	4790	1	6156	1	7522	1
693	1	2059	0	3425	1	4791	0	6157	0	7523	0
694	0	2060	0	3426	1	4792	0	6158	1	7524	1
695	1	2061	0	3427	1	4793	0	6159	0	7525	1
696	0	2062	0	3428	0	4794	0	6160	1	7526	1
697	0	2063	1	3429	1	4795	0	6161	1	7527	1
698	1	2064	1	3430	0	4796	0	6162	1	7528	1
699	0	2065	1	3431	0	4797	0	6163	0	7529	1
700	1	2066	0	3432	1	4798	0	6164	0	7530	1
701	0	2067	0	3433	1	4799	0	6165	1	7531	1
702	1	2068	0	3434	1	4800	1	6166	1	7532	0
703	1	2069	1	3435	1	4801	0	6167	0	7533	1
704	1	2070	0	3436	1	4802	0	6168	1	7534	0
705	1	2071	1	3437	0	4803	1	6169	1	7535	0
706	1	2072	1	3438	1	4804	1	6170	1	7536	0
707	1	2073	0	3439	0	4805	1	6171	1	7537	1
708	0	2074	1	3440	1	4806	0	6172	1	7538	0
709	1	2075	0	3441	1	4807	0	6173	1	7539	0
710	1	2076	0	3442	0	4808	1	6174	1	7540	1
711	1	2077	1	3443	1	4809	1	6175	1	7541	0
712	0	2078	1	3444	0	4810	0	6176	1	7542	1
713	0	2079	1	3445	1	4811	1	6177	0	7543	1
714	1	2080	1	3446	1	4812	0	6178	0	7544	0
715	0	2081	1	3447	1	4813	0	6179	0	7545	1
716	0	2082	1	3448	1	4814	1	6180	0	7546	0
717	0	2083	0	3449	1	4815	1	6181	0	7547	1
718	0	2084	0	3450	1	4816	0	6182	0	7548	0
719	1	2085	1	3451	0	4817	0	6183	0	7549	0
720	0	2086	1	3452	0	4818	0	6184	1	7550	0
721	1	2087	0	3453	1	4819	1	6185	1	7551	1
722	0	2088	1	3454	1	4820	0	6186	0	7552	1
723	1	2089	0	3455	0	4821	1	6187	1	7553	1
724	1	2090	0	3456	0	4822	1	6188	0	7554	1
725	1	2091	0	3457	1	4823	1	6189	1	7555	1
726	1	2092	0	3458	1	4824	1	6190	1	7556	1
727	1	2093	0	3459	1	4825	1	6191	1	7557	0
728	0	2094	1	3460	1	4826	1	6192	1	7558	0
729	1	2095	1	3461	0	4827	0	6193	1	7559	1
730	0	2096	0	3462	1	4828	1	6194	1	7560	0
731	0	2097	0	3463	0	4829	1	6195	0	7561	1
732	0	2098	0	3464	1	4830	0	6196	1	7562	1

733	0	2099	0	3465	0	4831	0	6197	0	7563	1
734	1	2100	0	3466	0	4832	1	6198	1	7564	0
735	1	2101	0	3467	0	4833	1	6199	0	7565	1
736	0	2102	1	3468	1	4834	1	6200	0	7566	0
737	0	2103	1	3469	0	4835	1	6201	1	7567	0
738	1	2104	0	3470	1	4836	1	6202	0	7568	1
739	1	2105	0	3471	1	4837	0	6203	1	7569	0
740	1	2106	0	3472	0	4838	0	6204	1	7570	1
741	1	2107	1	3473	1	4839	1	6205	1	7571	1
742	0	2108	1	3474	0	4840	1	6206	1	7572	0
743	0	2109	0	3475	0	4841	0	6207	0	7573	1
744	0	2110	0	3476	1	4842	1	6208	0	7574	0
745	1	2111	1	3477	1	4843	0	6209	1	7575	0
746	1	2112	0	3478	0	4844	1	6210	0	7576	0
747	1	2113	1	3479	0	4845	1	6211	1	7577	1
748	1	2114	0	3480	0	4846	1	6212	1	7578	1
749	1	2115	1	3481	1	4847	1	6213	0	7579	1
750	0	2116	0	3482	1	4848	1	6214	0	7580	1
751	1	2117	1	3483	0	4849	0	6215	1	7581	1
752	1	2118	0	3484	0	4850	0	6216	1	7582	0
753	1	2119	0	3485	1	4851	1	6217	1	7583	0
754	1	2120	1	3486	1	4852	1	6218	0	7584	0
755	1	2121	0	3487	0	4853	1	6219	1	7585	0
756	1	2122	1	3488	0	4854	0	6220	0	7586	0
757	1	2123	1	3489	1	4855	1	6221	0	7587	0
758	0	2124	1	3490	1	4856	1	6222	0	7588	0
759	0	2125	1	3491	1	4857	0	6223	0	7589	1
760	1	2126	0	3492	0	4858	1	6224	0	7590	1
761	1	2127	0	3493	1	4859	1	6225	0	7591	1
762	0	2128	0	3494	0	4860	0	6226	0	7592	0
763	0	2129	1	3495	1	4861	1	6227	1	7593	0
764	1	2130	1	3496	1	4862	0	6228	1	7594	0
765	1	2131	1	3497	0	4863	1	6229	0	7595	0
766	0	2132	1	3498	0	4864	0	6230	1	7596	0
767	0	2133	1	3499	1	4865	1	6231	1	7597	1
768	0	2134	0	3500	1	4866	1	6232	0	7598	0
769	1	2135	1	3501	0	4867	1	6233	0	7599	1
770	0	2136	0	3502	0	4868	0	6234	1	7600	0
771	1	2137	1	3503	0	4869	1	6235	1	7601	1
772	1	2138	0	3504	0	4870	0	6236	1	7602	1
773	0	2139	1	3505	0	4871	1	6237	1	7603	0
774	0	2140	1	3506	1	4872	0	6238	0	7604	0
775	0	2141	1	3507	1	4873	1	6239	1	7605	1
776	0	2142	1	3508	1	4874	1	6240	1	7606	0

777	1	2143	1	3509	1	4875	0	6241	0	7607	0
778	1	2144	0	3510	1	4876	0	6242	1	7608	1
779	0	2145	1	3511	1	4877	1	6243	0	7609	1
780	0	2146	1	3512	0	4878	1	6244	0	7610	1
781	1	2147	1	3513	1	4879	0	6245	0	7611	1
782	1	2148	0	3514	1	4880	1	6246	0	7612	1
783	1	2149	1	3515	0	4881	0	6247	1	7613	0
784	1	2150	1	3516	1	4882	1	6248	0	7614	1
785	0	2151	0	3517	1	4883	0	6249	1	7615	1
786	0	2152	0	3518	1	4884	1	6250	0	7616	0
787	1	2153	1	3519	0	4885	1	6251	0	7617	0
788	0	2154	0	3520	0	4886	0	6252	1	7618	0
789	1	2155	1	3521	0	4887	1	6253	1	7619	1
790	1	2156	0	3522	0	4888	1	6254	0	7620	0
791	0	2157	0	3523	1	4889	1	6255	0	7621	0
792	1	2158	1	3524	0	4890	0	6256	1	7622	1
793	0	2159	0	3525	0	4891	1	6257	0	7623	1
794	0	2160	1	3526	1	4892	1	6258	1	7624	1
795	0	2161	1	3527	1	4893	0	6259	0	7625	0
796	1	2162	0	3528	1	4894	0	6260	1	7626	1
797	0	2163	1	3529	0	4895	1	6261	1	7627	1
798	1	2164	0	3530	0	4896	0	6262	1	7628	1
799	1	2165	1	3531	0	4897	1	6263	1	7629	0
800	0	2166	0	3532	1	4898	1	6264	0	7630	0
801	1	2167	1	3533	0	4899	1	6265	0	7631	0
802	0	2168	0	3534	0	4900	1	6266	1	7632	0
803	0	2169	1	3535	1	4901	1	6267	1	7633	0
804	1	2170	0	3536	0	4902	0	6268	0	7634	1
805	0	2171	0	3537	0	4903	1	6269	1	7635	1
806	1	2172	1	3538	1	4904	0	6270	0	7636	0
807	1	2173	1	3539	0	4905	1	6271	0	7637	0
808	1	2174	0	3540	0	4906	0	6272	0	7638	0
809	1	2175	1	3541	1	4907	1	6273	0	7639	0
810	0	2176	1	3542	0	4908	1	6274	1	7640	1
811	0	2177	1	3543	0	4909	1	6275	0	7641	1
812	0	2178	1	3544	1	4910	1	6276	1	7642	1
813	1	2179	1	3545	1	4911	0	6277	1	7643	1
814	0	2180	0	3546	0	4912	1	6278	0	7644	1
815	0	2181	0	3547	0	4913	0	6279	1	7645	1
816	1	2182	0	3548	0	4914	1	6280	1	7646	1
817	0	2183	1	3549	1	4915	0	6281	1	7647	0
818	0	2184	1	3550	0	4916	1	6282	1	7648	1
819	0	2185	0	3551	1	4917	1	6283	0	7649	0
820	0	2186	1	3552	0	4918	1	6284	0	7650	0

821	0	2187	0	3553	1	4919	0	6285	1	7651	1
822	0	2188	0	3554	0	4920	0	6286	0	7652	0
823	0	2189	0	3555	0	4921	1	6287	0	7653	0
824	0	2190	1	3556	1	4922	0	6288	0	7654	0
825	0	2191	1	3557	0	4923	0	6289	0	7655	0
826	0	2192	1	3558	0	4924	0	6290	0	7656	0
827	0	2193	0	3559	0	4925	1	6291	1	7657	0
828	1	2194	0	3560	1	4926	0	6292	1	7658	1
829	0	2195	1	3561	1	4927	0	6293	0	7659	0
830	1	2196	1	3562	1	4928	0	6294	0	7660	1
831	1	2197	1	3563	1	4929	0	6295	0	7661	1
832	1	2198	0	3564	0	4930	1	6296	1	7662	1
833	1	2199	1	3565	1	4931	0	6297	1	7663	0
834	0	2200	1	3566	1	4932	0	6298	1	7664	1
835	0	2201	0	3567	1	4933	0	6299	1	7665	1
836	1	2202	1	3568	0	4934	0	6300	0	7666	0
837	1	2203	0	3569	0	4935	0	6301	0	7667	0
838	0	2204	0	3570	1	4936	1	6302	1	7668	1
839	1	2205	1	3571	0	4937	1	6303	1	7669	0
840	0	2206	0	3572	1	4938	1	6304	1	7670	0
841	0	2207	1	3573	0	4939	0	6305	0	7671	1
842	0	2208	1	3574	0	4940	0	6306	1	7672	1
843	0	2209	1	3575	0	4941	1	6307	1	7673	1
844	0	2210	1	3576	0	4942	0	6308	0	7674	0
845	1	2211	0	3577	1	4943	0	6309	0	7675	1
846	1	2212	0	3578	0	4944	1	6310	0	7676	1
847	1	2213	1	3579	0	4945	0	6311	0	7677	1
848	1	2214	1	3580	0	4946	0	6312	1	7678	1
849	1	2215	1	3581	1	4947	1	6313	1	7679	0
850	1	2216	0	3582	0	4948	0	6314	0	7680	1
851	0	2217	0	3583	1	4949	0	6315	1	7681	0
852	0	2218	1	3584	0	4950	0	6316	1	7682	0
853	0	2219	0	3585	1	4951	0	6317	1	7683	0
854	1	2220	1	3586	1	4952	1	6318	1	7684	0
855	1	2221	0	3587	0	4953	0	6319	0	7685	1
856	1	2222	0	3588	1	4954	0	6320	0	7686	1
857	0	2223	0	3589	0	4955	1	6321	1	7687	1
858	0	2224	1	3590	0	4956	1	6322	0	7688	0
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861	0	2227	0	3593	0	4959	0	6325	0	7691	0
862	1	2228	1	3594	1	4960	1	6326	0	7692	1
863	1	2229	1	3595	0	4961	1	6327	1	7693	0
864	0	2230	0	3596	1	4962	1	6328	1	7694	1

865	1	2231	1	3597	1	4963	0	6329	0	7695	0
866	1	2232	0	3598	0	4964	0	6330	0	7696	0
867	0	2233	1	3599	1	4965	1	6331	1	7697	0
868	1	2234	0	3600	1	4966	0	6332	0	7698	1
869	0	2235	0	3601	1	4967	1	6333	1	7699	1
870	1	2236	1	3602	0	4968	0	6334	0	7700	1
871	0	2237	0	3603	0	4969	0	6335	1	7701	1
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873	0	2239	1	3605	1	4971	1	6337	0	7703	1
874	0	2240	0	3606	1	4972	1	6338	0	7704	1
875	0	2241	1	3607	0	4973	1	6339	1	7705	0
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877	0	2243	0	3609	0	4975	0	6341	0	7707	1
878	1	2244	1	3610	1	4976	1	6342	0	7708	0
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880	1	2246	0	3612	0	4978	0	6344	0	7710	1
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882	0	2248	1	3614	0	4980	1	6346	0	7712	1
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887	0	2253	1	3619	1	4985	1	6351	0	7717	0
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889	1	2255	0	3621	0	4987	1	6353	1	7719	1
890	0	2256	1	3622	1	4988	1	6354	0	7720	0
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894	0	2260	1	3626	0	4992	1	6358	0	7724	1
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896	0	2262	1	3628	1	4994	0	6360	0	7726	0
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902	1	2268	0	3634	1	5000	0	6366	1	7732	1
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907	0	2273	0	3639	0	5005	1	6371	0	7737	0
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919	1	2285	1	3651	1	5017	1	6383	1	7749	1
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921	1	2287	0	3653	1	5019	1	6385	1	7751	1
922	1	2288	0	3654	0	5020	1	6386	1	7752	1
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939	1	2305	1	3671	0	5037	1	6403	1	7769	0
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941	1	2307	0	3673	0	5039	0	6405	1	7771	0
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946	0	2312	1	3678	1	5044	1	6410	0	7776	0
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976	0	2342	1	3708	1	5074	1	6440	0	7806	1
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