

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z^2 + z, z^4 + z^3 + 1)$$

GUO-NIU HAN* AND YINING HU*

ABSTRACT. The continued fraction conjecture claims that the continued fraction defined by the (a, b) -Thue-Morse sequence is algebraic over $\mathbb{F}_2(x)$ for all pairs of distinct elements (a, b) in $\mathbb{F}_2[x] \setminus \mathbb{F}_2$. In this paper we prove the conjecture for $(a, b) = (z^2 + z, z^4 + z^3 + 1)$.

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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Theorem 1.1. *When $(a, b) = (z^2 + z, z^4 + z^3 + 1)$, the two power series $\text{CF}(a, b)$ and $\text{CF}(b, a)$ are algebraic over $\mathbb{F}_2(z)$, with minimal polynomials of the form*

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

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{14} + z^{13} + z^{12} + z^{10} + z^7 + z^6 + z + 1, \\ p_1(z) &= z^{22} + z^{21} + z^{18} + z^{17} + z^{15} + z^{13} + z^{12} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 \\ &\quad + z, \\ p_2(z) &= z^{24} + z^{20} + z^{18} + z^{16} + z^{12} + z^{10} + z^4 + z^2, \\ p_3(z) &= z^{22} + z^{21} + z^{18} + z^{17} + z^{15} + z^{13} + z^{12} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 \\ &\quad + z, \\ p_4(z) &= z^{20} + z^{16} + z^{14} + z^{13} + z^{12} + z^7 + z^6 + z^4 + z^2 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{16} + z^{14} + z^{13} + z^{10} + z^8 + z^7 + z^6 + z^4 + z, \\ p_1(z) &= z^{22} + z^{21} + z^{18} + z^{17} + z^{15} + z^{13} + z^{12} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 \\ &\quad + z, \\ p_2(z) &= z^{24} + z^{20} + z^{18} + z^{16} + z^{12} + z^{10} + z^4 + z^2, \\ p_3(z) &= z^{22} + z^{21} + z^{18} + z^{17} + z^{15} + z^{13} + z^{12} + z^{11} + z^9 + z^7 + z^6 + z^5 + z^4 \\ &\quad + z, \\ p_4(z) &= z^{20} + z^{14} + z^{13} + z^8 + z^7 + z^6 + z^2 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

$$(2.7) \quad 0 = T[[1w]_2] + T[[100w]_2] + T[[110w]_2],$$

$$(2.8) \quad 0 = T[[10w]_2] + T[[101w]_2] + T[[111w]_2],$$

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

$$\begin{aligned}
(2.10) \quad 0 &= T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] \\
&\quad + T[[1001w]_2],
\end{aligned}$$

$$(2.11) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[11w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 0 = T[[1w]_2] + T[[100w]_2] + T[[110w]_2],$$

$$(2.14) \quad 0 = T[[10w]_2] + T[[101w]_2] + T[[111w]_2],$$

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

$$(2.16) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 0 = T[[11w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8190 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

$$(2.19) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 110)),$$

$$(2.20) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 111)),$$

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1000)),$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.24) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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

$$(2.25) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 100)) + \tau(A(s, 110)),$$

$$(2.26) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 111)),$$

$$(2.27) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1000)),$$

$$(2.28) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.30) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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 $u = 2^{2k-1}$,*

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

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

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

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

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

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

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

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

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

Using the notation introduced above, we can represent the expressions *lhs* (2.31) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{12}, b_1, \dots, b_{12}, c][X]$. Note that it is not a problem that a_j commutes with b_k while W^e does not commute with M^e , because in the expressions concerned, the products of W^e -terms and M^e -terms are always in the

same order. We let the computer do the simplification and check that the difference between these two polynomials is indeed $O(X^{12})$, which completes the proof. $\square$

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

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

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

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

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

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

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

Define

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

where

$$\begin{aligned}q_0(x) &= x^{24} + x^{23} + x^{18} + x^{17} + x^{14} + x^{12} + x^{11} + x^{10} + x^6, \\ q_1(x) &= x^{23} + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{13} + x^{12} + x^{11} + x^9 + x^7 + x^6 \\ &\quad + x^3 + x^2, \\ q_2(x) &= x^{22} + x^{20} + x^{14} + x^{12} + x^8 + x^6 + x^4 + 1, \\ q_3(x) &= x^{23} + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{13} + x^{12} + x^{11} + x^9 + x^7 + x^6 \\ &\quad + x^3 + x^2, \\ q_4(x) &= x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{12} + x^{11} + x^{10} + x^8 + x^4.\end{aligned}$$

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

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned}
p_0(x) &= x^{132} + x^{126} + x^{124} + x^{118} + x^{110} + x^{106} + x^{104} + x^{100} + x^{98} + x^{92} \\
&\quad + x^{88} + x^{86} + x^{82} + x^{80} + x^{76} + x^{74} + x^{70} + x^{68} + x^{64} + x^{62} + x^{58} \\
&\quad + x^{52} + x^{50} + x^{48} + x^{44} + x^{40} + x^{36} + x^{26} + x^{24}, \\
p_3(x) &= x^{126} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{110} + x^{106} + x^{102} + x^{100} \\
&\quad + x^{98} + x^{94} + x^{90} + x^{88} + x^{80} + x^{78} + x^{76} + x^{72} + x^{70} + x^{64} + x^{56} \\
&\quad + x^{50} + x^{44} + x^{40} + x^{38} + x^{34} + x^{32} + x^{26} + x^{24} + x^{18}, \\
p_6(x) &= x^{128} + x^{126} + x^{124} + x^{116} + x^{114} + x^{112} + x^{106} + x^{104} + x^{94} + x^{90} \\
&\quad + x^{86} + x^{84} + x^{80} + x^{76} + x^{72} + x^{68} + x^{64} + x^{62} + x^{56} + x^{54} + x^{52} \\
&\quad + x^{50} + x^{42} + x^{38} + x^{34} + x^{32} + x^{26} + x^{22} + x^{20} + x^{18} + x^{16} + x^{12} \\
&\quad + x^8 + x^4 + x^2 + 1, \\
p_9(x) &= x^{130} + x^{124} + x^{120} + x^{114} + x^{112} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} \\
&\quad + x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{74} + x^{70} + x^{64} + x^{62} + x^{58} + x^{56} \\
&\quad + x^{50} + x^{48} + x^{46} + x^{42} + x^{38} + x^{32} + x^{30} + x^{20} + x^{18} + x^{14} + x^{12} \\
&\quad + x^{10} + x^4, \\
p_{12}(x) &= x^{130} + x^{128} + x^{106} + x^{104} + x^{98} + x^{96} + x^{82} + x^{80} + x^{58} + x^{56} + x^{50} \\
&\quad + x^{48} + x^{34} + x^{32} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{119} + x^{113} + x^{108} + x^{107} + x^{106} + x^{105} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{95} + x^{94} + x^{92} + x^{86} + x^{85} \\
&\quad + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} + x^{68} + x^{67} + x^{64} \\
&\quad + x^{58} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} \\
&\quad + x^{39} + x^{34} + x^{32} + x^{30}, \\
p_3(x) &= x^{124} + x^{123} + x^{119} + x^{118} + x^{110} + x^{109} + x^{106} + x^{103} + x^{102} + x^{92} \\
&\quad + x^{91} + x^{87} + x^{85} + x^{82} + x^{79} + x^{78} + x^{76} + x^{75} + x^{71} + x^{69} + x^{66} \\
&\quad + x^{63} + x^{61} + x^{58} + x^{55} + x^{54} + x^{46} + x^{45} + x^{42} + x^{39} + x^{38} + x^{28} \\
&\quad + x^{27} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{123} + x^{122} + x^{120} + x^{119} + x^{117} + x^{112} + x^{111} + x^{110} + x^{108} + x^{106} \\
&\quad + x^{101} + x^{100} + x^{98} + x^{96} + x^{91} + x^{90} + x^{88} + x^{87} + x^{84} + x^{82} + x^{79} \\
&\quad + x^{78} + x^{77} + x^{72} + x^{71} + x^{70} + x^{69} + x^{65} + x^{63} + x^{58} + x^{55} + x^{54} \\
&\quad + x^{53} + x^{51} + x^{50} + x^{46} + x^{41} + x^{40} + x^{38} + x^{36} + x^{31} + x^{30} + x^{28} \\
&\quad + x^{26} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{12}, \\
p_9(x) &= x^{122} + x^{121} + x^{117} + x^{115} + x^{112} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} \\
&\quad + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{80}
\end{aligned}$$

$$\begin{aligned}
& + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} + x^{68} + x^{66} + x^{64} + x^{62} \\
& + x^{60} + x^{58} + x^{56} + x^{53} + x^{51} + x^{47} + x^{45} + x^{44} + x^{43} + x^{42} + x^{38} \\
& + x^{37} + x^{36} + x^{35} + x^{33} + x^{29} + x^{27} + x^{24} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{10} + x^7 + x^6, \\
p_{12}(x) = & x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{104} \\
& + x^{101} + x^{100} + x^{98} + x^{96} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{64} + x^{61} \\
& + x^{60} + x^{58} + x^{56} + x^{53} + x^{52} + x^{50} + x^{48} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{18} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{123} + x^{119} + x^{113} + x^{108} + x^{107} + x^{106} + x^{105} \\
& + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{95} + x^{94} + x^{92} + x^{86} + x^{85} \\
& + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} + x^{68} + x^{67} + x^{64} \\
& + x^{58} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} \\
& + x^{39} + x^{34} + x^{32} + x^{30}, \\
p_3(x) = & x^{124} + x^{123} + x^{119} + x^{118} + x^{110} + x^{109} + x^{106} + x^{103} + x^{102} + x^{92} \\
& + x^{91} + x^{87} + x^{85} + x^{82} + x^{79} + x^{78} + x^{76} + x^{75} + x^{71} + x^{69} + x^{66} \\
& + x^{63} + x^{61} + x^{58} + x^{55} + x^{54} + x^{46} + x^{45} + x^{42} + x^{39} + x^{38} + x^{28} \\
& + x^{27} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) = & x^{123} + x^{122} + x^{120} + x^{119} + x^{117} + x^{112} + x^{111} + x^{110} + x^{108} + x^{106} \\
& + x^{101} + x^{100} + x^{98} + x^{96} + x^{91} + x^{90} + x^{88} + x^{87} + x^{84} + x^{82} + x^{79} \\
& + x^{78} + x^{77} + x^{72} + x^{71} + x^{70} + x^{69} + x^{65} + x^{63} + x^{58} + x^{55} + x^{54} \\
& + x^{53} + x^{51} + x^{50} + x^{46} + x^{41} + x^{40} + x^{38} + x^{36} + x^{31} + x^{30} + x^{28} \\
& + x^{26} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{12}, \\
p_9(x) = & x^{122} + x^{121} + x^{117} + x^{115} + x^{112} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} \\
& + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{80} \\
& + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} + x^{68} + x^{66} + x^{64} + x^{62} \\
& + x^{60} + x^{58} + x^{56} + x^{53} + x^{51} + x^{47} + x^{45} + x^{44} + x^{43} + x^{42} + x^{38} \\
& + x^{37} + x^{36} + x^{35} + x^{33} + x^{29} + x^{27} + x^{24} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{10} + x^7 + x^6, \\
p_{12}(x) = & x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{104} \\
& + x^{101} + x^{100} + x^{98} + x^{96} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{64} + x^{61} \\
& + x^{60} + x^{58} + x^{56} + x^{53} + x^{52} + x^{50} + x^{48} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{18} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{120} + x^{118} + x^{116} + x^{108} + x^{104} + x^{100} + x^{94} + x^{92} + x^{90} + x^{88} \\
&\quad + x^{84} + x^{80} + x^{72} + x^{68} + x^{66} + x^{58} + x^{50} + x^{46} + x^{44} + x^{38} + x^{36}, \\
p_3(x) &= x^{114} + x^{108} + x^{100} + x^{98} + x^{94} + x^{92} + x^{88} + x^{84} + x^{82} + x^{78} + x^{74} \\
&\quad + x^{68} + x^{66} + x^{64} + x^{58} + x^{54} + x^{50} + x^{44} + x^{40} + x^{36} + x^{34} + x^{30} \\
&\quad + x^{28} + x^{22} + x^{18} + x^{12}, \\
p_6(x) &= x^{114} + x^{112} + x^{110} + x^{108} + x^{102} + x^{98} + x^{88} + x^{84} + x^{82} + x^{80} + x^{78} \\
&\quad + x^{76} + x^{74} + x^{72} + x^{66} + x^{64} + x^{60} + x^{54} + x^{38} + x^{26} + x^{18} + x^{10} \\
&\quad + x^8 + x^4 + x^2 + 1, \\
p_9(x) &= x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{100} + x^{96} + x^{92} + x^{90} + x^{86} \\
&\quad + x^{78} + x^{74} + x^{72} + x^{68} + x^{64} + x^{62} + x^{58} + x^{54} + x^{52} + x^{50} + x^{48} \\
&\quad + x^{44} + x^{36} + x^{32} + x^{30} + x^{26} + x^{18} + x^{16} + x^{10} + x^4, \\
p_{12}(x) &= x^{112} + x^{106} + x^{98} + x^{96} + x^{64} + x^{58} + x^{50} + x^{48} + x^{16} + x^{10} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{120} + x^{118} + x^{108} + x^{104} + x^{100} + x^{90} + x^{84} + x^{80} + x^{76} + x^{74} + x^{72} \\
&\quad + x^{70} + x^{68} + x^{62} + x^{60} + x^{54} + x^{52} + x^{48} + x^{46} + x^{42} + x^{40} + x^{36} \\
&\quad + x^{34} + x^{26} + x^{24}, \\
p_3(x) &= x^{114} + x^{110} + x^{108} + x^{106} + x^{96} + x^{94} + x^{92} + x^{84} + x^{72} + x^{70} + x^{66} \\
&\quad + x^{60} + x^{48} + x^{46} + x^{38} + x^{34} + x^{20} + x^{18}, \\
p_6(x) &= x^{114} + x^{112} + x^{106} + x^{100} + x^{94} + x^{90} + x^{88} + x^{86} + x^{76} + x^{74} + x^{72} \\
&\quad + x^{70} + x^{68} + x^{66} + x^{64} + x^{46} + x^{44} + x^{34} + x^{28} + x^{20} + x^{14} + x^4 \\
&\quad + x^2 + 1, \\
p_9(x) &= x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{100} + x^{96} + x^{92} + x^{90} + x^{86} \\
&\quad + x^{78} + x^{74} + x^{72} + x^{68} + x^{64} + x^{62} + x^{58} + x^{54} + x^{52} + x^{50} + x^{48} \\
&\quad + x^{44} + x^{36} + x^{32} + x^{30} + x^{26} + x^{18} + x^{16} + x^{10} + x^4, \\
p_{12}(x) &= x^{112} + x^{106} + x^{98} + x^{96} + x^{64} + x^{58} + x^{50} + x^{48} + x^{16} + x^{10} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{117} + x^{116} + x^{109} + x^{106} + x^{105} + x^{103} \\
&\quad + x^{102} + x^{101} + x^{99} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{90} + x^{89} + x^{88} \\
&\quad + x^{86} + x^{85} + x^{84} + x^{80} + x^{79} + x^{78} + x^{76} + x^{73} + x^{72} + x^{68} + x^{66} \\
&\quad + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{56} + x^{55} + x^{50} + x^{47} + x^{46} \\
&\quad + x^{43} + x^{41} + x^{38} + x^{37} + x^{36} + x^{30}, \\
p_3(x) &= x^{124} + x^{123} + x^{119} + x^{118} + x^{110} + x^{109} + x^{106} + x^{103} + x^{102} + x^{92}
\end{aligned}$$

$$\begin{aligned}
& + x^{91} + x^{87} + x^{85} + x^{82} + x^{79} + x^{78} + x^{76} + x^{75} + x^{71} + x^{69} + x^{66} \\
& + x^{63} + x^{61} + x^{58} + x^{55} + x^{54} + x^{46} + x^{45} + x^{42} + x^{39} + x^{38} + x^{28} \\
& + x^{27} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{123} + x^{122} + x^{120} + x^{119} + x^{117} + x^{112} + x^{111} + x^{110} + x^{108} + x^{106} \\
& + x^{101} + x^{100} + x^{98} + x^{96} + x^{91} + x^{90} + x^{88} + x^{87} + x^{84} + x^{82} + x^{79} \\
& + x^{78} + x^{77} + x^{72} + x^{71} + x^{70} + x^{69} + x^{65} + x^{63} + x^{58} + x^{55} + x^{54} \\
& + x^{53} + x^{51} + x^{50} + x^{46} + x^{41} + x^{40} + x^{38} + x^{36} + x^{31} + x^{30} + x^{28} \\
& + x^{26} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{12}, \\
p_9(x) &= x^{122} + x^{121} + x^{117} + x^{115} + x^{112} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} \\
& + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{80} \\
& + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} + x^{68} + x^{66} + x^{64} + x^{62} \\
& + x^{60} + x^{58} + x^{56} + x^{53} + x^{51} + x^{47} + x^{45} + x^{44} + x^{43} + x^{42} + x^{38} \\
& + x^{37} + x^{36} + x^{35} + x^{33} + x^{29} + x^{27} + x^{24} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{10} + x^7 + x^6, \\
p_{12}(x) &= x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{104} \\
& + x^{101} + x^{100} + x^{98} + x^{96} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{64} + x^{61} \\
& + x^{60} + x^{58} + x^{56} + x^{53} + x^{52} + x^{50} + x^{48} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{18} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{123} + x^{122} + x^{117} + x^{116} + x^{109} + x^{106} + x^{105} + x^{103} \\
& + x^{102} + x^{101} + x^{99} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{90} + x^{89} + x^{88} \\
& + x^{86} + x^{85} + x^{84} + x^{80} + x^{79} + x^{78} + x^{76} + x^{73} + x^{72} + x^{68} + x^{66} \\
& + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{56} + x^{55} + x^{50} + x^{47} + x^{46} \\
& + x^{43} + x^{41} + x^{38} + x^{37} + x^{36} + x^{30}, \\
p_3(x) &= x^{124} + x^{123} + x^{119} + x^{118} + x^{110} + x^{109} + x^{106} + x^{103} + x^{102} + x^{92} \\
& + x^{91} + x^{87} + x^{85} + x^{82} + x^{79} + x^{78} + x^{76} + x^{75} + x^{71} + x^{69} + x^{66} \\
& + x^{63} + x^{61} + x^{58} + x^{55} + x^{54} + x^{46} + x^{45} + x^{42} + x^{39} + x^{38} + x^{28} \\
& + x^{27} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_6(x) &= x^{123} + x^{122} + x^{120} + x^{119} + x^{117} + x^{112} + x^{111} + x^{110} + x^{108} + x^{106} \\
& + x^{101} + x^{100} + x^{98} + x^{96} + x^{91} + x^{90} + x^{88} + x^{87} + x^{84} + x^{82} + x^{79} \\
& + x^{78} + x^{77} + x^{72} + x^{71} + x^{70} + x^{69} + x^{65} + x^{63} + x^{58} + x^{55} + x^{54} \\
& + x^{53} + x^{51} + x^{50} + x^{46} + x^{41} + x^{40} + x^{38} + x^{36} + x^{31} + x^{30} + x^{28} \\
& + x^{26} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{12}, \\
p_9(x) &= x^{122} + x^{121} + x^{117} + x^{115} + x^{112} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104}
\end{aligned}$$

$$\begin{aligned}
& + x^{98} + x^{97} + x^{96} + x^{95} + x^{93} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{80} \\
& + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} + x^{68} + x^{66} + x^{64} + x^{62} \\
& + x^{60} + x^{58} + x^{56} + x^{53} + x^{51} + x^{47} + x^{45} + x^{44} + x^{43} + x^{42} + x^{38} \\
& + x^{37} + x^{36} + x^{35} + x^{33} + x^{29} + x^{27} + x^{24} + x^{21} + x^{20} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{13} + x^{10} + x^7 + x^6, \\
p_{12}(x) = & x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{104} \\
& + x^{101} + x^{100} + x^{98} + x^{96} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{64} + x^{61} \\
& + x^{60} + x^{58} + x^{56} + x^{53} + x^{52} + x^{50} + x^{48} + x^{25} + x^{24} + x^{22} + x^{21} \\
& + x^{18} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{132} + x^{130} + x^{126} + x^{120} + x^{116} + x^{108} + x^{102} + x^{98} + x^{96} + x^{92} \\
& + x^{86} + x^{80} + x^{76} + x^{70} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{48} + x^{44} \\
& + x^{42} + x^{40} + x^{38} + x^{36}, \\
p_3(x) = & x^{128} + x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{104} + x^{102} + x^{98} \\
& + x^{96} + x^{90} + x^{78} + x^{74} + x^{72} + x^{60} + x^{56} + x^{54} + x^{48} + x^{46} + x^{44} \\
& + x^{40} + x^{38} + x^{32} + x^{18} + x^{12}, \\
p_6(x) = & x^{126} + x^{124} + x^{120} + x^{116} + x^{112} + x^{110} + x^{106} + x^{104} + x^{100} + x^{96} \\
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} + x^{56} + x^{52} + x^{50} + x^{44} + x^{40} \\
& + x^{38} + x^{34} + x^{30} + x^{28} + x^{26} + x^{14} + x^{12} + x^{10} + x^4 + x^2 + 1, \\
p_9(x) = & x^{130} + x^{124} + x^{120} + x^{114} + x^{112} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} \\
& + x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{74} + x^{70} + x^{64} + x^{62} + x^{58} + x^{56} \\
& + x^{50} + x^{48} + x^{46} + x^{42} + x^{38} + x^{32} + x^{30} + x^{20} + x^{18} + x^{14} + x^{12} \\
& + x^{10} + x^4, \\
p_{12}(x) = & x^{130} + x^{128} + x^{106} + x^{104} + x^{98} + x^{96} + x^{82} + x^{80} + x^{58} + x^{56} + x^{50} \\
& + x^{48} + x^{34} + x^{32} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{108} + x^{107} + x^{106} + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} + x^{93} \\
& + x^{88} + x^{85} + x^{84} + x^{79} + x^{78} + x^{71} + x^{69} + x^{68} + x^{67} + x^{63} + x^{61} \\
& + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{46} + x^{45} \\
& + x^{44} + x^{43} + x^{40} + x^{39} + x^{38} + x^{35} + x^{33} + x^{30} + x^{29} + x^{26} + x^{24}, \\
p_3(x) = & x^{125} + x^{123} + x^{122} + x^{119} + x^{117} + x^{113} + x^{109} + x^{108} + x^{104} + x^{103} \\
& + x^{102} + x^{100} + x^{99} + x^{96} + x^{95} + x^{91} + x^{90} + x^{89} + x^{87} + x^{84} + x^{83}
\end{aligned}$$

$$\begin{aligned}
& + x^{82} + x^{81} + x^{79} + x^{78} + x^{77} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} \\
& + x^{65} + x^{64} + x^{63} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{51} + x^{48} \\
& + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} \\
& + x^{27} + x^{26} + x^{21} + x^{20} + x^{18} + x^{16}, \\
p_6(x) = & x^{125} + x^{123} + x^{122} + x^{120} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{110} \\
& + x^{105} + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{95} + x^{94} + x^{93} + x^{92} \\
& + x^{91} + x^{90} + x^{88} + x^{86} + x^{83} + x^{82} + x^{78} + x^{77} + x^{76} + x^{74} + x^{69} \\
& + x^{68} + x^{66} + x^{65} + x^{64} + x^{60} + x^{59} + x^{58} + x^{54} + x^{53} + x^{51} + x^{50} \\
& + x^{45} + x^{44} + x^{43} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} \\
& + x^{30} + x^{29} + x^{28} + x^{27} + x^{24} + x^{23} + x^{22} + x^{19} + x^{17} + x^{14} + x^{12} \\
& + x^5 + x^4 + x^2 + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} \\
& + x^{106} + x^{104} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} \\
& + x^{61} + x^{58} + x^{56} + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{21} + x^{18} + x^{17} \\
& + x^{14} + x^{13} + x^{10} + x^8, \\
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{120} + x^{113} + x^{112} + x^{110} + x^{108} + x^{101} + x^{100} \\
& + x^{98} + x^{96} + x^{77} + x^{76} + x^{74} + x^{72} + x^{65} + x^{64} + x^{62} + x^{60} + x^{53} \\
& + x^{52} + x^{50} + x^{48} + x^{29} + x^{28} + x^{26} + x^{24} + x^{17} + x^{16} + x^{14} + x^{12} \\
& + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{128} + x^{125} + x^{122} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{110} \\
& + x^{108} + x^{107} + x^{103} + x^{100} + x^{99} + x^{96} + x^{95} + x^{94} + x^{91} + x^{90} \\
& + x^{89} + x^{88} + x^{85} + x^{83} + x^{82} + x^{81} + x^{78} + x^{76} + x^{74} + x^{72} + x^{69} \\
& + x^{68} + x^{65} + x^{64} + x^{63} + x^{62} + x^{58} + x^{56} + x^{55} + x^{50} + x^{49} + x^{47} \\
& + x^{46} + x^{45} + x^{42} + x^{39} + x^{37} + x^{35} + x^{30}, \\
p_3(x) = & x^{121} + x^{119} + x^{118} + x^{115} + x^{113} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} \\
& + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} \\
& + x^{86} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{75} + x^{71} + x^{70} + x^{69} + x^{68} \\
& + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{51} + x^{49} \\
& + x^{45} + x^{44} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} \\
& + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{19} + x^{18}, \\
p_6(x) = & x^{122} + x^{116} + x^{114} + x^{112} + x^{110} + x^{106} + x^{100} + x^{96} + x^{90} + x^{82} \\
& + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{54} \\
& + x^{52} + x^{48} + x^{46} + x^{40} + x^{36} + x^{30} + x^{26} + x^{22} + x^{20} + x^{14} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_9(x) &= x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} \\
&\quad + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{75} + x^{73} \\
&\quad + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} \\
&\quad + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{27} + x^{25} + x^{24} + x^{23} + x^{21} + x^{20} \\
&\quad + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} + x^{10} + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{124} + x^{120} + x^{112} + x^{108} + x^{100} + x^{96} + x^{76} + x^{72} + x^{64} + x^{60} + x^{52} \\
&\quad + x^{48} + x^{28} + x^{24} + x^{16} + x^{12} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{134} + x^{133} + x^{132} + x^{131} + x^{129} + x^{127} + x^{125} + x^{123} + x^{122} + x^{117} \\
&\quad + x^{113} + x^{111} + x^{110} + x^{105} + x^{104} + x^{102} + x^{100} + x^{98} + x^{95} + x^{94} \\
&\quad + x^{91} + x^{86} + x^{85} + x^{79} + x^{78} + x^{75} + x^{74} + x^{70} + x^{68} + x^{67} + x^{65} \\
&\quad + x^{63} + x^{62} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} + x^{47} + x^{46} + x^{42} + x^{41} \\
&\quad + x^{37} + x^{35} + x^{32} + x^{30}, \\
p_3(x) &= x^{133} + x^{131} + x^{130} + x^{129} + x^{126} + x^{122} + x^{120} + x^{119} + x^{112} + x^{110} \\
&\quad + x^{108} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{96} + x^{92} + x^{91} \\
&\quad + x^{89} + x^{88} + x^{87} + x^{85} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{74} + x^{71} \\
&\quad + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} + x^{59} + x^{56} + x^{55} + x^{48} + x^{46} \\
&\quad + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36} + x^{32} + x^{29} + x^{28} + x^{26} \\
&\quad + x^{24} + x^{23} + x^{22} + x^{19} + x^{18}, \\
p_6(x) &= x^{134} + x^{130} + x^{128} + x^{116} + x^{114} + x^{110} + x^{106} + x^{102} + x^{100} + x^{98} \\
&\quad + x^{96} + x^{88} + x^{80} + x^{78} + x^{72} + x^{70} + x^{68} + x^{64} + x^{60} + x^{58} + x^{54} \\
&\quad + x^{48} + x^{46} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{22} + x^{20} \\
&\quad + x^{14} + x^{12}, \\
p_9(x) &= x^{135} + x^{133} + x^{132} + x^{127} + x^{126} + x^{124} + x^{123} + x^{118} + x^{117} + x^{116} \\
&\quad + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} \\
&\quad + x^{104} + x^{103} + x^{102} + x^{87} + x^{85} + x^{84} + x^{79} + x^{78} + x^{76} + x^{75} + x^{70} \\
&\quad + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} \\
&\quad + x^{56} + x^{55} + x^{54} + x^{39} + x^{37} + x^{36} + x^{31} + x^{30} + x^{28} + x^{27} + x^{22} \\
&\quad + x^{21} + x^{20} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} + x^{10} + x^9 \\
&\quad + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{136} + x^{120} + x^{108} + x^{100} + x^{96} + x^{88} + x^{72} + x^{60} + x^{52} + x^{48} + x^{40} \\
&\quad + x^{24} + x^{12} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{122} + x^{121} + x^{118} + x^{117} + x^{113} + x^{112} + x^{111} + x^{107} + x^{106} \\
&\quad + x^{103} + x^{102} + x^{101} + x^{100} + x^{96} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} \\
&\quad + x^{82} + x^{81} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{65} + x^{62} \\
&\quad + x^{59} + x^{56} + x^{53} + x^{51} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{36}, \\
p_3(x) &= x^{125} + x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{107} + x^{105} + x^{103} + x^{102} \\
&\quad + x^{99} + x^{96} + x^{95} + x^{87} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} \\
&\quad + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{68} + x^{63} + x^{61} + x^{60} + x^{58} + x^{56} \\
&\quad + x^{55} + x^{54} + x^{52} + x^{51} + x^{48} + x^{45} + x^{41} + x^{39} + x^{37} + x^{36} + x^{35} \\
&\quad + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{25} + x^{20}, \\
p_6(x) &= x^{125} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} \\
&\quad + x^{108} + x^{106} + x^{103} + x^{102} + x^{101} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} \\
&\quad + x^{90} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{79} + x^{77} + x^{71} + x^{70} + x^{69} \\
&\quad + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{56} + x^{55} + x^{53} \\
&\quad + x^{52} + x^{50} + x^{49} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} + x^{35} \\
&\quad + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{18} \\
&\quad + x^{17} + x^{13} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} \\
&\quad + x^{106} + x^{104} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} \\
&\quad + x^{61} + x^{58} + x^{56} + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{21} + x^{18} + x^{17} \\
&\quad + x^{14} + x^{13} + x^{10} + x^8, \\
p_{12}(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{113} + x^{112} + x^{110} + x^{108} + x^{101} + x^{100} \\
&\quad + x^{98} + x^{96} + x^{77} + x^{76} + x^{74} + x^{72} + x^{65} + x^{64} + x^{62} + x^{60} + x^{53} \\
&\quad + x^{52} + x^{50} + x^{48} + x^{29} + x^{28} + x^{26} + x^{24} + x^{17} + x^{16} + x^{14} + x^{12} \\
&\quad + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{113} + x^{112} + x^{111} \\
&\quad + x^{110} + x^{108} + x^{107} + x^{106} + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} + x^{93} \\
&\quad + x^{88} + x^{85} + x^{84} + x^{79} + x^{78} + x^{71} + x^{69} + x^{68} + x^{67} + x^{63} + x^{61} \\
&\quad + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{46} + x^{45} \\
&\quad + x^{44} + x^{43} + x^{40} + x^{39} + x^{38} + x^{35} + x^{33} + x^{30} + x^{29} + x^{26} + x^{24}, \\
p_3(x) &= x^{125} + x^{123} + x^{122} + x^{119} + x^{117} + x^{113} + x^{109} + x^{108} + x^{104} + x^{103} \\
&\quad + x^{102} + x^{100} + x^{99} + x^{96} + x^{95} + x^{91} + x^{90} + x^{89} + x^{87} + x^{84} + x^{83} \\
&\quad + x^{82} + x^{81} + x^{79} + x^{78} + x^{77} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67}
\end{aligned}$$

$$\begin{aligned}
& + x^{65} + x^{64} + x^{63} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{51} + x^{48} \\
& + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} \\
& + x^{27} + x^{26} + x^{21} + x^{20} + x^{18} + x^{16}, \\
p_6(x) = & x^{125} + x^{123} + x^{122} + x^{120} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{110} \\
& + x^{105} + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{95} + x^{94} + x^{93} + x^{92} \\
& + x^{91} + x^{90} + x^{88} + x^{86} + x^{83} + x^{82} + x^{78} + x^{77} + x^{76} + x^{74} + x^{69} \\
& + x^{68} + x^{66} + x^{65} + x^{64} + x^{60} + x^{59} + x^{58} + x^{54} + x^{53} + x^{51} + x^{50} \\
& + x^{45} + x^{44} + x^{43} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} \\
& + x^{30} + x^{29} + x^{28} + x^{27} + x^{24} + x^{23} + x^{22} + x^{19} + x^{17} + x^{14} + x^{12} \\
& + x^5 + x^4 + x^2 + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} \\
& + x^{106} + x^{104} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} \\
& + x^{61} + x^{58} + x^{56} + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{21} + x^{18} + x^{17} \\
& + x^{14} + x^{13} + x^{10} + x^8, \\
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{120} + x^{113} + x^{112} + x^{110} + x^{108} + x^{101} + x^{100} \\
& + x^{98} + x^{96} + x^{77} + x^{76} + x^{74} + x^{72} + x^{65} + x^{64} + x^{62} + x^{60} + x^{53} \\
& + x^{52} + x^{50} + x^{48} + x^{29} + x^{28} + x^{26} + x^{24} + x^{17} + x^{16} + x^{14} + x^{12} \\
& + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{134} + x^{133} + x^{132} + x^{131} + x^{129} + x^{127} + x^{125} + x^{123} + x^{122} + x^{117} \\
& + x^{113} + x^{111} + x^{110} + x^{105} + x^{104} + x^{102} + x^{100} + x^{98} + x^{95} + x^{94} \\
& + x^{91} + x^{86} + x^{85} + x^{79} + x^{78} + x^{75} + x^{74} + x^{70} + x^{68} + x^{67} + x^{65} \\
& + x^{63} + x^{62} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} + x^{47} + x^{46} + x^{42} + x^{41} \\
& + x^{37} + x^{35} + x^{32} + x^{30}, \\
p_3(x) = & x^{133} + x^{131} + x^{130} + x^{129} + x^{126} + x^{122} + x^{120} + x^{119} + x^{112} + x^{110} \\
& + x^{108} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{96} + x^{92} + x^{91} \\
& + x^{89} + x^{88} + x^{87} + x^{85} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{74} + x^{71} \\
& + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} + x^{59} + x^{56} + x^{55} + x^{48} + x^{46} \\
& + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36} + x^{32} + x^{29} + x^{28} + x^{26} \\
& + x^{24} + x^{23} + x^{22} + x^{19} + x^{18}, \\
p_6(x) = & x^{134} + x^{130} + x^{128} + x^{116} + x^{114} + x^{110} + x^{106} + x^{102} + x^{100} + x^{98} \\
& + x^{96} + x^{88} + x^{80} + x^{78} + x^{72} + x^{70} + x^{68} + x^{64} + x^{60} + x^{58} + x^{54} \\
& + x^{48} + x^{46} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{22} + x^{20} \\
& + x^{14} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_9(x) &= x^{135} + x^{133} + x^{132} + x^{127} + x^{126} + x^{124} + x^{123} + x^{118} + x^{117} + x^{116} \\
&\quad + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} \\
&\quad + x^{104} + x^{103} + x^{102} + x^{87} + x^{85} + x^{84} + x^{79} + x^{78} + x^{76} + x^{75} + x^{70} \\
&\quad + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} \\
&\quad + x^{56} + x^{55} + x^{54} + x^{39} + x^{37} + x^{36} + x^{31} + x^{30} + x^{28} + x^{27} + x^{22} \\
&\quad + x^{21} + x^{20} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} + x^{10} + x^9 \\
&\quad + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{136} + x^{120} + x^{108} + x^{100} + x^{96} + x^{88} + x^{72} + x^{60} + x^{52} + x^{48} + x^{40} \\
&\quad + x^{24} + x^{12} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{128} + x^{125} + x^{122} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{110} \\
&\quad + x^{108} + x^{107} + x^{103} + x^{100} + x^{99} + x^{96} + x^{95} + x^{94} + x^{91} + x^{90} \\
&\quad + x^{89} + x^{88} + x^{85} + x^{83} + x^{82} + x^{81} + x^{78} + x^{76} + x^{74} + x^{72} + x^{69} \\
&\quad + x^{68} + x^{65} + x^{64} + x^{63} + x^{62} + x^{58} + x^{56} + x^{55} + x^{50} + x^{49} + x^{47} \\
&\quad + x^{46} + x^{45} + x^{42} + x^{39} + x^{37} + x^{35} + x^{30}, \\
p_3(x) &= x^{121} + x^{119} + x^{118} + x^{115} + x^{113} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} \\
&\quad + x^{86} + x^{83} + x^{82} + x^{81} + x^{79} + x^{78} + x^{75} + x^{71} + x^{70} + x^{69} + x^{68} \\
&\quad + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{51} + x^{49} \\
&\quad + x^{45} + x^{44} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} \\
&\quad + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{19} + x^{18}, \\
p_6(x) &= x^{122} + x^{116} + x^{114} + x^{112} + x^{110} + x^{106} + x^{100} + x^{96} + x^{90} + x^{82} \\
&\quad + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{54} \\
&\quad + x^{52} + x^{48} + x^{46} + x^{40} + x^{36} + x^{30} + x^{26} + x^{22} + x^{20} + x^{14} + x^{12}, \\
p_9(x) &= x^{123} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} \\
&\quad + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{75} + x^{73} \\
&\quad + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} \\
&\quad + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{27} + x^{25} + x^{24} + x^{23} + x^{21} + x^{20} \\
&\quad + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} + x^{10} + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{124} + x^{120} + x^{112} + x^{108} + x^{100} + x^{96} + x^{76} + x^{72} + x^{64} + x^{60} + x^{52} \\
&\quad + x^{48} + x^{28} + x^{24} + x^{16} + x^{12} + x^4 + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{126} + x^{122} + x^{121} + x^{118} + x^{117} + x^{113} + x^{112} + x^{111} + x^{107} + x^{106}$$

$$\begin{aligned}
& + x^{103} + x^{102} + x^{101} + x^{100} + x^{96} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} \\
& + x^{82} + x^{81} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{65} + x^{62} \\
& + x^{59} + x^{56} + x^{53} + x^{51} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{36}, \\
p_3(x) = & x^{125} + x^{121} + x^{119} + x^{117} + x^{116} + x^{113} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{99} + x^{96} + x^{95} + x^{87} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} \\
& + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{68} + x^{63} + x^{61} + x^{60} + x^{58} + x^{56} \\
& + x^{55} + x^{54} + x^{52} + x^{51} + x^{48} + x^{45} + x^{41} + x^{39} + x^{37} + x^{36} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{25} + x^{20}, \\
p_6(x) = & x^{125} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} \\
& + x^{108} + x^{106} + x^{103} + x^{102} + x^{101} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} \\
& + x^{90} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{79} + x^{77} + x^{71} + x^{70} + x^{69} \\
& + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{56} + x^{55} + x^{53} \\
& + x^{52} + x^{50} + x^{49} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} + x^{35} \\
& + x^{32} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{18} \\
& + x^{17} + x^{13} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{110} + x^{109} \\
& + x^{106} + x^{104} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} \\
& + x^{61} + x^{58} + x^{56} + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{21} + x^{18} + x^{17} \\
& + x^{14} + x^{13} + x^{10} + x^8, \\
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{120} + x^{113} + x^{112} + x^{110} + x^{108} + x^{101} + x^{100} \\
& + x^{98} + x^{96} + x^{77} + x^{76} + x^{74} + x^{72} + x^{65} + x^{64} + x^{62} + x^{60} + x^{53} \\
& + x^{52} + x^{50} + x^{48} + x^{29} + x^{28} + x^{26} + x^{24} + x^{17} + x^{16} + x^{14} + x^{12} \\
& + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2048	[3309, 3310]	4096	[5402, 5403]	6144	[4222, 851]
1	[3, 4]	2049	[3311, 3240]	4097	[3326, 5404]	6145	[7011, 1806]
2	[5, 6]	2050	[3312, 2838]	4098	[3762, 5405]	6146	[7012, 4168]
3	[7, 8]	2051	[3156, 3313]	4099	[5406, 2682]	6147	[7013, 2306]
4	[9, 10]	2052	[3314, 3315]	4100	[5407, 5408]	6148	[4562, 2199]
5	[11, 12]	2053	[3316, 3317]	4101	[3906, 5409]	6149	[7014, 7015]
6	[13, 14]	2054	[3318, 407]	4102	[1466, 3673]	6150	[7016, 4508]
7	[15, 16]	2055	[3319, 3206]	4103	[5410, 5411]	6151	[4279, 5217]
8	[17, 18]	2056	[3320, 1401]	4104	[5412, 5413]	6152	[2310, 5050]
9	[19, 20]	2057	[3321, 3322]	4105	[395, 3915]	6153	[7017, 6406]

10	[21, 22]	2058	[1530, 384]	4106	[5329, 3858]	6154	[5260, 4007]
11	[23, 24]	2059	[3323, 3324]	4107	[5414, 1346]	6155	[7018, 1682]
12	[25, 26]	2060	[3325, 3326]	4108	[5415, 3782]	6156	[7019, 1878]
13	[27, 28]	2061	[1547, 3327]	4109	[5416, 5417]	6157	[6852, 2665]
14	[29, 30]	2062	[3328, 3329]	4110	[1192, 3711]	6158	[7020, 7021]
15	[31, 32]	2063	[1526, 3330]	4111	[5418, 3846]	6159	[7022, 500]
16	[33, 34]	2064	[3331, 3332]	4112	[5419, 3954]	6160	[7023, 127]
17	[35, 36]	2065	[1541, 3298]	4113	[5420, 5303]	6161	[7024, 7025]
18	[37, 38]	2066	[2970, 3333]	4114	[1158, 5421]	6162	[2297, 7026]
19	[39, 40]	2067	[3334, 1318]	4115	[5422, 913]	6163	[7027, 6468]
20	[41, 42]	2068	[3335, 3336]	4116	[290, 5423]	6164	[5123, 7028]
21	[43, 44]	2069	[3337, 3338]	4117	[3982, 2794]	6165	[6926, 6818]
22	[45, 46]	2070	[3339, 3340]	4118	[5424, 5425]	6166	[5153, 754]
23	[47, 48]	2071	[3341, 2796]	4119	[292, 5376]	6167	[5020, 2466]
24	[49, 50]	2072	[3129, 3342]	4120	[1311, 5426]	6168	[2267, 4483]
25	[51, 52]	2073	[3343, 1313]	4121	[5427, 5428]	6169	[7029, 7030]
26	[53, 54]	2074	[3344, 3275]	4122	[5429, 5430]	6170	[4676, 6748]
27	[55, 56]	2075	[3345, 2839]	4123	[5431, 3067]	6171	[54, 643]
28	[57, 58]	2076	[3346, 1492]	4124	[5432, 1155]	6172	[7031, 1667]
29	[59, 60]	2077	[3347, 3348]	4125	[5433, 1584]	6173	[7032, 2194]
30	[61, 62]	2078	[1007, 1383]	4126	[5434, 5435]	6174	[7033, 6805]
31	[63, 64]	2079	[3349, 3331]	4127	[5436, 3363]	6175	[892, 2438]
32	[65, 66]	2080	[3350, 2880]	4128	[5437, 5438]	6176	[6968, 4433]
33	[67, 68]	2081	[3351, 1137]	4129	[5439, 5440]	6177	[7034, 2207]
34	[69, 70]	2082	[3352, 3353]	4130	[5441, 1268]	6178	[7035, 4833]
35	[71, 72]	2083	[3354, 3355]	4131	[2831, 2877]	6179	[543, 4686]
36	[73, 74]	2084	[3356, 912]	4132	[1029, 3239]	6180	[7036, 6598]
37	[75, 76]	2085	[3357, 1576]	4133	[5442, 3188]	6181	[7037, 2157]
38	[77, 78]	2086	[3358, 1380]	4134	[2742, 2909]	6182	[7038, 1608]
39	[79, 80]	2087	[3359, 3360]	4135	[5443, 5364]	6183	[2569, 6958]
40	[81, 82]	2088	[984, 3361]	4136	[2774, 5444]	6184	[7039, 4776]
41	[83, 84]	2089	[3362, 3363]	4137	[1160, 5445]	6185	[7040, 4932]
42	[85, 86]	2090	[3364, 3365]	4138	[5446, 5447]	6186	[7041, 6472]
43	[87, 88]	2091	[3366, 3367]	4139	[1432, 5448]	6187	[7042, 553]
44	[89, 90]	2092	[3368, 3369]	4140	[5449, 2902]	6188	[7043, 6449]
45	[91, 92]	2093	[3370, 3371]	4141	[1461, 453]	6189	[7044, 2195]
46	[93, 94]	2094	[312, 1568]	4142	[5450, 5451]	6190	[6844, 729]
47	[95, 96]	2095	[3149, 3372]	4143	[5452, 1378]	6191	[4193, 4642]
48	[97, 98]	2096	[3373, 1112]	4144	[5453, 3286]	6192	[7045, 5165]
49	[99, 100]	2097	[118, 2924]	4145	[475, 1130]	6193	[4703, 522]
50	[101, 102]	2098	[3374, 3375]	4146	[5454, 1521]	6194	[7046, 7047]
51	[103, 104]	2099	[3376, 3377]	4147	[5455, 5456]	6195	[7048, 4314]
52	[105, 106]	2100	[3378, 3379]	4148	[5457, 3426]	6196	[7049, 890]
53	[107, 108]	2101	[3380, 3381]	4149	[3467, 319]	6197	[4095, 5108]

54	[109, 110]	2102	[3382, 3383]	4150	[5458, 939]	6198	[7050, 4564]
55	[111, 112]	2103	[1484, 1570]	4151	[5459, 398]	6199	[7051, 7052]
56	[113, 114]	2104	[3384, 3385]	4152	[5460, 3841]	6200	[7053, 825]
57	[115, 116]	2105	[3386, 1488]	4153	[5461, 3204]	6201	[7054, 180]
58	[117, 118]	2106	[3153, 3387]	4154	[5462, 1192]	6202	[593, 6833]
59	[119, 120]	2107	[3388, 3389]	4155	[5463, 5464]	6203	[7055, 4518]
60	[121, 122]	2108	[3390, 1205]	4156	[5465, 980]	6204	[7056, 4263]
61	[123, 124]	2109	[3391, 2872]	4157	[1208, 3374]	6205	[7057, 4642]
62	[125, 126]	2110	[936, 3258]	4158	[906, 1526]	6206	[6990, 507]
63	[127, 128]	2111	[3392, 1361]	4159	[5466, 897]	6207	[1643, 4412]
64	[129, 130]	2112	[3393, 1551]	4160	[5467, 3741]	6208	[7058, 4991]
65	[131, 132]	2113	[3394, 1428]	4161	[5468, 460]	6209	[7059, 4334]
66	[133, 134]	2114	[3367, 3273]	4162	[5469, 5470]	6210	[7060, 2639]
67	[135, 136]	2115	[3395, 3396]	4163	[5471, 417]	6211	[2650, 6784]
68	[137, 138]	2116	[3397, 3368]	4164	[1486, 5472]	6212	[7061, 4927]
69	[139, 140]	2117	[3398, 2965]	4165	[5473, 1207]	6213	[7062, 4678]
70	[141, 142]	2118	[3399, 3400]	4166	[5474, 1539]	6214	[625, 2504]
71	[143, 144]	2119	[3401, 2815]	4167	[5475, 2977]	6215	[7063, 4270]
72	[145, 146]	2120	[3402, 3403]	4168	[5476, 5477]	6216	[7064, 7065]
73	[147, 148]	2121	[3404, 2753]	4169	[5409, 5478]	6217	[2181, 6671]
74	[149, 150]	2122	[3405, 1370]	4170	[3898, 1380]	6218	[5279, 701]
75	[151, 152]	2123	[1277, 3406]	4171	[5479, 5480]	6219	[7066, 7067]
76	[153, 154]	2124	[3407, 3408]	4172	[3227, 2848]	6220	[7068, 7069]
77	[155, 156]	2125	[2684, 3409]	4173	[1371, 3981]	6221	[1904, 6607]
78	[157, 158]	2126	[3410, 3411]	4174	[5481, 5482]	6222	[4016, 1615]
79	[159, 160]	2127	[3412, 3413]	4175	[5483, 1582]	6223	[7070, 7071]
80	[161, 162]	2128	[3414, 3415]	4176	[3046, 5379]	6224	[7072, 2136]
81	[163, 164]	2129	[3416, 3110]	4177	[3029, 2774]	6225	[681, 2086]
82	[165, 166]	2130	[3417, 286]	4178	[5484, 3107]	6226	[7073, 7003]
83	[167, 168]	2131	[1424, 1499]	4179	[252, 5485]	6227	[7074, 4782]
84	[169, 170]	2132	[3418, 2974]	4180	[5486, 2951]	6228	[202, 6913]
85	[171, 172]	2133	[1139, 3419]	4181	[2830, 3208]	6229	[7075, 5204]
86	[173, 174]	2134	[3420, 1381]	4182	[304, 964]	6230	[1968, 6920]
87	[175, 176]	2135	[3421, 3176]	4183	[3381, 416]	6231	[7076, 4155]
88	[177, 10]	2136	[96, 3146]	4184	[5487, 1005]	6232	[7077, 786]
89	[178, 179]	2137	[3422, 3083]	4185	[1043, 3574]	6233	[7078, 7079]
90	[180, 181]	2138	[1067, 3423]	4186	[5488, 940]	6234	[7080, 7081]
91	[182, 183]	2139	[3424, 1514]	4187	[5372, 329]	6235	[4829, 1783]
92	[184, 185]	2140	[3425, 3426]	4188	[5489, 420]	6236	[7082, 777]
93	[186, 51]	2141	[1479, 2686]	4189	[5490, 459]	6237	[7083, 2396]
94	[187, 188]	2142	[3197, 3427]	4190	[5491, 5492]	6238	[7084, 7085]
95	[189, 190]	2143	[3428, 3429]	4191	[1110, 2856]	6239	[4938, 4261]
96	[191, 192]	2144	[2898, 3415]	4192	[5493, 3637]	6240	[718, 6377]
97	[193, 194]	2145	[3430, 3431]	4193	[3950, 2672]	6241	[779, 6684]

98	[195, 196]	2146	[3432, 3391]	4194	[5304, 5494]	6242	[7086, 6881]
99	[197, 198]	2147	[3433, 3434]	4195	[3032, 3323]	6243	[6426, 4409]
100	[199, 200]	2148	[3435, 3436]	4196	[5495, 3982]	6244	[4910, 893]
101	[201, 202]	2149	[3437, 929]	4197	[5496, 1073]	6245	[5049, 7087]
102	[203, 204]	2150	[1004, 3438]	4198	[5497, 3713]	6246	[4724, 4518]
103	[205, 206]	2151	[3439, 3264]	4199	[3199, 3917]	6247	[7088, 4572]
104	[207, 208]	2152	[2686, 3150]	4200	[3853, 3626]	6248	[7089, 1860]
105	[209, 210]	2153	[3440, 3441]	4201	[5498, 3628]	6249	[2648, 7090]
106	[211, 212]	2154	[3442, 3443]	4202	[5499, 3522]	6250	[7091, 1670]
107	[213, 214]	2155	[1586, 3444]	4203	[5500, 482]	6251	[7092, 1835]
108	[215, 216]	2156	[3445, 3446]	4204	[5501, 2679]	6252	[6893, 6514]
109	[217, 218]	2157	[3447, 988]	4205	[5502, 2962]	6253	[6477, 2098]
110	[219, 220]	2158	[3448, 2925]	4206	[5503, 5504]	6254	[686, 6850]
111	[46, 135]	2159	[3449, 3335]	4207	[2826, 996]	6255	[2206, 4111]
112	[221, 222]	2160	[3450, 1296]	4208	[3564, 2854]	6256	[7093, 1648]
113	[223, 224]	2161	[3451, 3452]	4209	[5505, 5506]	6257	[2264, 6459]
114	[225, 226]	2162	[2933, 3126]	4210	[5507, 5508]	6258	[7094, 596]
115	[227, 228]	2163	[3453, 3142]	4211	[5509, 5441]	6259	[7095, 4494]
116	[229, 230]	2164	[3454, 415]	4212	[80, 2938]	6260	[817, 2203]
117	[231, 232]	2165	[3455, 2700]	4213	[5510, 1021]	6261	[7096, 4959]
118	[233, 234]	2166	[3456, 3457]	4214	[5511, 5512]	6262	[1697, 4300]
119	[235, 236]	2167	[3458, 3459]	4215	[5513, 5514]	6263	[7097, 4545]
120	[237, 238]	2168	[3460, 3461]	4216	[5515, 1028]	6264	[4218, 4397]
121	[239, 240]	2169	[1458, 1016]	4217	[3083, 1573]	6265	[7098, 4535]
122	[241, 242]	2170	[2690, 1246]	4218	[5516, 5517]	6266	[7099, 6701]
123	[243, 244]	2171	[3462, 3463]	4219	[5518, 410]	6267	[7100, 6543]
124	[245, 246]	2172	[3464, 3465]	4220	[2881, 3821]	6268	[7101, 5068]
125	[247, 248]	2173	[3466, 3467]	4221	[5519, 5520]	6269	[7102, 773]
126	[249, 250]	2174	[3468, 3469]	4222	[5521, 3520]	6270	[7103, 7104]
127	[251, 252]	2175	[3470, 3471]	4223	[5522, 1020]	6271	[2103, 4601]
128	[253, 254]	2176	[3472, 3473]	4224	[5523, 5524]	6272	[4751, 7071]
129	[255, 256]	2177	[2927, 3474]	4225	[5525, 997]	6273	[750, 6549]
130	[257, 258]	2178	[3475, 2712]	4226	[5526, 5527]	6274	[1707, 4180]
131	[259, 260]	2179	[3476, 406]	4227	[2882, 1334]	6275	[1732, 2502]
132	[261, 262]	2180	[3477, 3478]	4228	[1238, 5419]	6276	[7105, 1839]
133	[263, 264]	2181	[3479, 3480]	4229	[3305, 1341]	6277	[4065, 4769]
134	[265, 266]	2182	[3481, 1300]	4230	[5528, 3900]	6278	[7106, 798]
135	[267, 268]	2183	[1315, 3482]	4231	[5529, 5387]	6279	[7107, 4302]
136	[269, 270]	2184	[3483, 441]	4232	[5530, 5531]	6280	[1932, 4969]
137	[271, 24]	2185	[3484, 2850]	4233	[1100, 1391]	6281	[7108, 4143]
138	[272, 273]	2186	[1594, 1331]	4234	[898, 5532]	6282	[7109, 5052]
139	[274, 275]	2187	[3485, 3486]	4235	[3446, 3813]	6283	[7110, 6453]
140	[276, 115]	2188	[3487, 2684]	4236	[5533, 332]	6284	[7111, 4634]
141	[277, 278]	2189	[960, 255]	4237	[1151, 2708]	6285	[764, 6901]

142	[279, 280]	2190	[3488, 3441]	4238	[5534, 3543]	6286	[7112, 4053]
143	[281, 282]	2191	[3489, 3490]	4239	[5535, 3030]	6287	[7113, 2048]
144	[283, 284]	2192	[3491, 3492]	4240	[5536, 3245]	6288	[4008, 5272]
145	[285, 281]	2193	[3056, 3476]	4241	[3406, 5537]	6289	[7114, 728]
146	[286, 287]	2194	[3493, 3494]	4242	[1269, 5538]	6290	[7115, 6397]
147	[288, 288]	2195	[3495, 3496]	4243	[5539, 3594]	6291	[7116, 7117]
148	[289, 290]	2196	[3497, 3498]	4244	[5540, 3941]	6292	[7118, 6581]
149	[291, 292]	2197	[3499, 1230]	4245	[5541, 3135]	6293	[7119, 819]
150	[293, 294]	2198	[3500, 3501]	4246	[5542, 5361]	6294	[6890, 3999]
151	[295, 296]	2199	[3502, 1364]	4247	[5352, 5516]	6295	[7120, 4267]
152	[297, 298]	2200	[3503, 1265]	4248	[5543, 5544]	6296	[6394, 6585]
153	[299, 300]	2201	[3504, 3505]	4249	[3285, 2691]	6297	[1869, 207]
154	[301, 302]	2202	[456, 3506]	4250	[5545, 1484]	6298	[7121, 7122]
155	[303, 304]	2203	[1472, 2778]	4251	[3966, 120]	6299	[7123, 2466]
156	[305, 306]	2204	[3507, 1308]	4252	[3808, 3040]	6300	[6412, 556]
157	[307, 308]	2205	[3508, 3133]	4253	[280, 3041]	6301	[4173, 849]
158	[309, 310]	2206	[3509, 3429]	4254	[3700, 966]	6302	[2576, 6899]
159	[311, 312]	2207	[994, 2694]	4255	[2769, 5546]	6303	[7124, 6845]
160	[313, 314]	2208	[3363, 3290]	4256	[5547, 456]	6304	[7125, 4468]
161	[315, 283]	2209	[3510, 1487]	4257	[5548, 3525]	6305	[2159, 2067]
162	[316, 317]	2210	[415, 69]	4258	[3627, 5403]	6306	[7126, 7127]
163	[318, 319]	2211	[3511, 967]	4259	[5549, 5550]	6307	[4408, 4487]
164	[320, 321]	2212	[3216, 2770]	4260	[5551, 5552]	6308	[7128, 2231]
165	[322, 323]	2213	[2793, 3346]	4261	[5553, 5554]	6309	[2419, 839]
166	[324, 325]	2214	[3512, 1180]	4262	[2982, 1429]	6310	[7129, 603]
167	[326, 327]	2215	[3513, 3514]	4263	[5555, 1178]	6311	[4023, 6893]
168	[328, 329]	2216	[3515, 2907]	4264	[5326, 5556]	6312	[7130, 546]
169	[330, 331]	2217	[3516, 2747]	4265	[5327, 5557]	6313	[7131, 7132]
170	[332, 333]	2218	[3517, 1551]	4266	[3121, 3178]	6314	[7133, 221]
171	[334, 335]	2219	[3518, 1126]	4267	[5558, 5559]	6315	[4800, 4846]
172	[336, 337]	2220	[3519, 3520]	4268	[5560, 5561]	6316	[2213, 4814]
173	[338, 339]	2221	[1015, 392]	4269	[3770, 5562]	6317	[7134, 4601]
174	[340, 341]	2222	[3521, 3522]	4270	[5563, 5564]	6318	[5223, 2512]
175	[342, 343]	2223	[3523, 2744]	4271	[2828, 5565]	6319	[1764, 2450]
176	[344, 345]	2224	[3524, 3525]	4272	[3730, 1042]	6320	[526, 2267]
177	[346, 347]	2225	[3526, 3527]	4273	[5566, 5567]	6321	[7135, 4602]
178	[348, 349]	2226	[3528, 2825]	4274	[5568, 1334]	6322	[7090, 4174]
179	[350, 351]	2227	[3529, 2764]	4275	[1335, 3948]	6323	[7136, 5171]
180	[352, 353]	2228	[3530, 3531]	4276	[5569, 2981]	6324	[6611, 800]
181	[6, 354]	2229	[3532, 3465]	4277	[5570, 2915]	6325	[7137, 7004]
182	[355, 356]	2230	[3338, 3533]	4278	[5571, 2925]	6326	[7138, 6541]
183	[357, 358]	2231	[3534, 3535]	4279	[5572, 3859]	6327	[7139, 2416]
184	[331, 359]	2232	[3536, 3338]	4280	[5573, 5417]	6328	[488, 203]
185	[360, 361]	2233	[3537, 375]	4281	[3205, 313]	6329	[7140, 6403]

186	[362, 273]	2234	[3538, 3539]	4282	[5428, 5574]	6330	[7141, 800]
187	[363, 364]	2235	[3540, 3541]	4283	[5456, 5575]	6331	[7142, 2388]
188	[365, 366]	2236	[3542, 3543]	4284	[5576, 451]	6332	[4454, 1985]
189	[367, 368]	2237	[3544, 3545]	4285	[5577, 3332]	6333	[7143, 4279]
190	[369, 370]	2238	[3546, 3547]	4286	[2751, 5578]	6334	[4710, 1718]
191	[371, 263]	2239	[1045, 3548]	4287	[3106, 5526]	6335	[6908, 4932]
192	[372, 373]	2240	[3549, 3550]	4288	[5579, 5580]	6336	[4305, 2351]
193	[374, 375]	2241	[2896, 3551]	4289	[1093, 909]	6337	[5152, 6800]
194	[376, 377]	2242	[3552, 3553]	4290	[5574, 3250]	6338	[7144, 2627]
195	[378, 379]	2243	[3554, 3052]	4291	[2668, 5342]	6339	[2171, 6932]
196	[380, 381]	2244	[3555, 3556]	4292	[2670, 5581]	6340	[5055, 6801]
197	[382, 383]	2245	[3525, 1209]	4293	[5582, 3134]	6341	[6609, 4214]
198	[384, 385]	2246	[3557, 3558]	4294	[3434, 3480]	6342	[7145, 12]
199	[386, 387]	2247	[990, 3067]	4295	[5583, 5584]	6343	[2121, 7052]
200	[388, 389]	2248	[3551, 3559]	4296	[1482, 21]	6344	[7146, 4523]
201	[390, 391]	2249	[3310, 1324]	4297	[5585, 2714]	6345	[2444, 5058]
202	[392, 393]	2250	[3238, 2980]	4298	[5586, 1019]	6346	[7147, 4297]
203	[394, 395]	2251	[3560, 3561]	4299	[1318, 3920]	6347	[7148, 2322]
204	[396, 397]	2252	[3562, 3314]	4300	[5587, 1308]	6348	[7149, 4981]
205	[398, 399]	2253	[3563, 3564]	4301	[5588, 3303]	6349	[4356, 1690]
206	[400, 401]	2254	[3348, 2961]	4302	[5589, 3790]	6350	[7150, 768]
207	[402, 403]	2255	[3565, 1398]	4303	[5590, 2687]	6351	[2626, 7092]
208	[404, 405]	2256	[3566, 3567]	4304	[5591, 1353]	6352	[6833, 4178]
209	[406, 407]	2257	[429, 2787]	4305	[5592, 5593]	6353	[4469, 2161]
210	[408, 409]	2258	[1534, 3400]	4306	[5594, 3490]	6354	[1781, 4720]
211	[410, 411]	2259	[3270, 1580]	4307	[3280, 3312]	6355	[7151, 6815]
212	[412, 413]	2260	[3173, 3568]	4308	[5595, 5596]	6356	[2164, 5231]
213	[414, 415]	2261	[3569, 3570]	4309	[5597, 296]	6357	[7152, 7153]
214	[416, 417]	2262	[3571, 1324]	4310	[5598, 464]	6358	[7154, 4209]
215	[418, 293]	2263	[2980, 3572]	4311	[2888, 3860]	6359	[5219, 6778]
216	[419, 420]	2264	[1412, 267]	4312	[5599, 5416]	6360	[5232, 1781]
217	[421, 422]	2265	[3573, 2874]	4313	[3020, 5386]	6361	[7155, 4686]
218	[423, 424]	2266	[3574, 3575]	4314	[5600, 1559]	6362	[7156, 4180]
219	[425, 426]	2267	[3576, 3577]	4315	[5601, 3624]	6363	[7157, 6958]
220	[427, 428]	2268	[3578, 3266]	4316	[5394, 3203]	6364	[7158, 7159]
221	[4, 429]	2269	[3078, 3579]	4317	[3506, 1478]	6365	[7160, 7161]
222	[430, 431]	2270	[3580, 3581]	4318	[5602, 3647]	6366	[7127, 690]
223	[432, 433]	2271	[3342, 1518]	4319	[5603, 5604]	6367	[7162, 4765]
224	[434, 435]	2272	[2996, 3582]	4320	[3872, 5605]	6368	[4183, 4552]
225	[436, 437]	2273	[393, 3583]	4321	[2964, 3687]	6369	[7163, 4806]
226	[438, 439]	2274	[3375, 3360]	4322	[3945, 1445]	6370	[7164, 2232]
227	[440, 441]	2275	[3584, 3232]	4323	[3330, 5606]	6371	[7165, 1040]
228	[442, 443]	2276	[3585, 1083]	4324	[5607, 5608]	6372	[7166, 5908]
229	[444, 445]	2277	[3063, 3586]	4325	[1075, 3911]	6373	[7167, 5400]

230	[446, 447]	2278	[3587, 2938]	4326	[5609, 454]	6374	[3444, 5923]
231	[448, 449]	2279	[3588, 3589]	4327	[5610, 299]	6375	[7168, 3091]
232	[450, 451]	2280	[3590, 3591]	4328	[5611, 3536]	6376	[7169, 6091]
233	[452, 342]	2281	[3592, 3593]	4329	[5612, 3537]	6377	[7170, 5642]
234	[453, 454]	2282	[3594, 3595]	4330	[5613, 3534]	6378	[5921, 1410]
235	[455, 456]	2283	[3596, 3597]	4331	[3543, 5614]	6379	[266, 6014]
236	[457, 458]	2284	[287, 1286]	4332	[5615, 5611]	6380	[5552, 1346]
237	[459, 460]	2285	[339, 3063]	4333	[2947, 5616]	6381	[7171, 1508]
238	[461, 462]	2286	[3598, 2747]	4334	[5617, 5618]	6382	[7172, 2923]
239	[463, 464]	2287	[3599, 3600]	4335	[5619, 1120]	6383	[7173, 5578]
240	[465, 466]	2288	[3601, 3602]	4336	[5620, 2947]	6384	[7174, 5531]
241	[411, 390]	2289	[3603, 3604]	4337	[5621, 3745]	6385	[7175, 1477]
242	[467, 468]	2290	[1417, 1465]	4338	[5622, 3951]	6386	[5904, 1463]
243	[469, 470]	2291	[3605, 3606]	4339	[5546, 3887]	6387	[3867, 5794]
244	[470, 471]	2292	[3607, 3608]	4340	[5623, 5624]	6388	[7176, 3592]
245	[472, 473]	2293	[3609, 3406]	4341	[5625, 1540]	6389	[7177, 2861]
246	[474, 475]	2294	[3610, 3611]	4342	[1013, 1256]	6390	[5423, 5567]
247	[476, 477]	2295	[946, 3612]	4343	[5626, 5627]	6391	[7178, 1427]
248	[478, 479]	2296	[3613, 2728]	4344	[5628, 1443]	6392	[7179, 3137]
249	[480, 481]	2297	[2704, 3614]	4345	[5629, 5630]	6393	[6076, 1259]
250	[482, 483]	2298	[3615, 3476]	4346	[3918, 943]	6394	[5779, 2878]
251	[484, 485]	2299	[3616, 1376]	4347	[5302, 3216]	6395	[7180, 5499]
252	[486, 61]	2300	[2735, 1141]	4348	[5631, 5632]	6396	[930, 6323]
253	[487, 488]	2301	[3617, 3590]	4349	[5633, 257]	6397	[7181, 359]
254	[489, 490]	2302	[1342, 3140]	4350	[5634, 2852]	6398	[7182, 1080]
255	[491, 492]	2303	[1137, 2724]	4351	[68, 1378]	6399	[7183, 6098]
256	[493, 494]	2304	[1087, 3618]	4352	[5635, 3947]	6400	[3073, 5984]
257	[495, 496]	2305	[3619, 2889]	4353	[5636, 2704]	6401	[3778, 3385]
258	[497, 498]	2306	[3620, 1257]	4354	[5637, 1479]	6402	[3965, 395]
259	[499, 500]	2307	[3621, 3395]	4355	[3204, 5638]	6403	[7184, 2821]
260	[501, 502]	2308	[3622, 3397]	4356	[354, 3302]	6404	[7185, 907]
261	[503, 504]	2309	[3623, 3224]	4357	[5639, 3243]	6405	[7186, 1233]
262	[505, 506]	2310	[3624, 3625]	4358	[5640, 3108]	6406	[5298, 412]
263	[507, 508]	2311	[3626, 3627]	4359	[3612, 3941]	6407	[7187, 5341]
264	[509, 510]	2312	[3628, 3629]	4360	[1494, 111]	6408	[7188, 2855]
265	[511, 512]	2313	[3630, 3631]	4361	[5641, 5377]	6409	[7189, 1297]
266	[513, 514]	2314	[1307, 1456]	4362	[5642, 1591]	6410	[7190, 3172]
267	[246, 515]	2315	[3632, 3633]	4363	[5643, 1046]	6411	[7191, 1123]
268	[516, 517]	2316	[3634, 3438]	4364	[2993, 5608]	6412	[7192, 1032]
269	[518, 519]	2317	[3635, 3636]	4365	[3009, 5547]	6413	[7193, 3959]
270	[520, 521]	2318	[3637, 3638]	4366	[458, 5644]	6414	[7194, 3777]
271	[522, 523]	2319	[3639, 1542]	4367	[5645, 1512]	6415	[1454, 85]
272	[524, 525]	2320	[3640, 263]	4368	[5646, 305]	6416	[7195, 2882]
273	[36, 526]	2321	[3641, 3326]	4369	[1225, 3344]	6417	[7196, 274]

274	[527, 528]	2322	[3642, 3643]	4370	[5647, 983]	6418	[7197, 7198]
275	[529, 530]	2323	[2799, 1099]	4371	[1358, 3172]	6419	[7199, 5614]
276	[531, 229]	2324	[2951, 2972]	4372	[5648, 3367]	6420	[7200, 1562]
277	[218, 532]	2325	[1548, 1189]	4373	[5649, 2832]	6421	[3728, 3735]
278	[220, 533]	2326	[3644, 2677]	4374	[5650, 317]	6422	[5321, 3020]
279	[534, 535]	2327	[1009, 3288]	4375	[5651, 5448]	6423	[1025, 5458]
280	[536, 537]	2328	[3645, 981]	4376	[5652, 1264]	6424	[7201, 6253]
281	[538, 539]	2329	[3646, 3325]	4377	[3593, 3059]	6425	[7202, 2986]
282	[540, 541]	2330	[3647, 3648]	4378	[5653, 3269]	6426	[7203, 3459]
283	[542, 543]	2331	[70, 3550]	4379	[5654, 3584]	6427	[7204, 5453]
284	[544, 545]	2332	[3649, 1001]	4380	[5655, 5656]	6428	[7205, 2975]
285	[546, 547]	2333	[3247, 3631]	4381	[5657, 5571]	6429	[7206, 3826]
286	[548, 549]	2334	[3650, 3651]	4382	[5638, 1003]	6430	[3577, 2819]
287	[550, 551]	2335	[3652, 316]	4383	[5658, 5659]	6431	[7207, 6022]
288	[552, 553]	2336	[3327, 3647]	4384	[5660, 2758]	6432	[7208, 5458]
289	[554, 555]	2337	[1071, 3198]	4385	[5661, 5662]	6433	[5627, 1167]
290	[556, 557]	2338	[3586, 3653]	4386	[5663, 3187]	6434	[7209, 3068]
291	[553, 558]	2339	[3654, 3655]	4387	[5664, 5665]	6435	[7210, 351]
292	[559, 560]	2340	[3656, 3025]	4388	[3758, 2899]	6436	[950, 6117]
293	[561, 562]	2341	[3657, 3113]	4389	[944, 3058]	6437	[7211, 2997]
294	[563, 564]	2342	[3575, 2950]	4390	[2676, 3787]	6438	[7212, 430]
295	[565, 566]	2343	[3658, 1122]	4391	[5666, 3324]	6439	[7213, 915]
296	[567, 568]	2344	[3097, 3659]	4392	[5667, 472]	6440	[5833, 1151]
297	[569, 570]	2345	[1106, 3660]	4393	[3178, 5668]	6441	[7214, 3443]
298	[571, 572]	2346	[3298, 1194]	4394	[2722, 5669]	6442	[7215, 288]
299	[573, 574]	2347	[3022, 3661]	4395	[5670, 2720]	6443	[6005, 1559]
300	[575, 576]	2348	[3662, 3663]	4396	[3939, 5300]	6444	[7216, 5423]
301	[577, 578]	2349	[3664, 1171]	4397	[5671, 3781]	6445	[7217, 3601]
302	[579, 580]	2350	[3665, 1383]	4398	[2990, 983]	6446	[1220, 68]
303	[581, 128]	2351	[3666, 1384]	4399	[5672, 5673]	6447	[7218, 6101]
304	[582, 583]	2352	[3110, 1394]	4400	[5674, 1270]	6448	[7219, 1498]
305	[584, 585]	2353	[368, 2967]	4401	[1096, 3002]	6449	[7220, 3202]
306	[586, 200]	2354	[464, 3034]	4402	[3838, 1212]	6450	[926, 1132]
307	[587, 588]	2355	[3667, 3353]	4403	[3914, 5370]	6451	[7221, 6197]
308	[589, 590]	2356	[3469, 3668]	4404	[3711, 3202]	6452	[7222, 2782]
309	[206, 591]	2357	[3669, 95]	4405	[3190, 5675]	6453	[7223, 5870]
310	[592, 593]	2358	[3670, 3671]	4406	[5676, 1060]	6454	[1039, 3076]
311	[594, 595]	2359	[1104, 3556]	4407	[5677, 1251]	6455	[5662, 7224]
312	[596, 597]	2360	[3672, 1420]	4408	[5678, 1395]	6456	[3908, 1095]
313	[598, 599]	2361	[3673, 3005]	4409	[5679, 5680]	6457	[7225, 2864]
314	[600, 601]	2362	[3674, 3675]	4410	[5681, 3589]	6458	[3746, 92]
315	[602, 544]	2363	[1382, 3676]	4411	[5682, 5683]	6459	[7226, 1363]
316	[603, 604]	2364	[3618, 3103]	4412	[5684, 3315]	6460	[7227, 3147]
317	[605, 606]	2365	[3677, 3678]	4413	[5685, 994]	6461	[5478, 1285]

318	[519, 607]	2366	[3679, 2791]	4414	[1502, 5351]	6462	[7228, 3299]
319	[608, 609]	2367	[3680, 3547]	4415	[5686, 2793]	6463	[2782, 3637]
320	[610, 611]	2368	[3681, 115]	4416	[1145, 260]	6464	[445, 5317]
321	[612, 613]	2369	[1255, 3045]	4417	[5687, 948]	6465	[3977, 5993]
322	[614, 615]	2370	[3443, 2736]	4418	[5688, 3350]	6466	[7229, 397]
323	[616, 617]	2371	[3115, 2807]	4419	[5689, 5690]	6467	[7230, 7231]
324	[618, 619]	2372	[3682, 3683]	4420	[5691, 5692]	6468	[1027, 3135]
325	[620, 621]	2373	[3676, 3684]	4421	[5693, 3080]	6469	[7232, 3868]
326	[622, 623]	2374	[3685, 2825]	4422	[3265, 3713]	6470	[7233, 3732]
327	[624, 625]	2375	[3686, 3351]	4423	[5309, 1351]	6471	[1265, 3366]
328	[626, 627]	2376	[3687, 3688]	4424	[5405, 3249]	6472	[7234, 3050]
329	[628, 62]	2377	[3689, 3064]	4425	[5694, 5695]	6473	[7235, 5346]
330	[629, 630]	2378	[3690, 3691]	4426	[5690, 1317]	6474	[3968, 3097]
331	[631, 202]	2379	[3692, 369]	4427	[5696, 1341]	6475	[7236, 925]
332	[607, 632]	2380	[391, 1483]	4428	[5697, 2909]	6476	[7237, 3374]
333	[609, 633]	2381	[1518, 1161]	4429	[5698, 1056]	6477	[7238, 3376]
334	[634, 635]	2382	[3693, 1382]	4430	[5464, 3247]	6478	[7239, 1588]
335	[636, 529]	2383	[3694, 3507]	4431	[5699, 3661]	6479	[6115, 5834]
336	[637, 638]	2384	[3695, 1191]	4432	[5391, 3836]	6480	[7240, 2669]
337	[639, 640]	2385	[3696, 3697]	4433	[5700, 5701]	6481	[7241, 1025]
338	[641, 642]	2386	[992, 3698]	4434	[5363, 465]	6482	[7242, 3425]
339	[643, 644]	2387	[3699, 3700]	4435	[5702, 3708]	6483	[7243, 3730]
340	[645, 646]	2388	[3701, 3131]	4436	[5703, 3973]	6484	[3835, 3500]
341	[647, 648]	2389	[100, 3702]	4437	[5704, 3913]	6485	[3787, 3012]
342	[649, 650]	2390	[3703, 3418]	4438	[5357, 5470]	6486	[7244, 1228]
343	[651, 34]	2391	[3704, 1077]	4439	[5705, 1142]	6487	[3868, 3066]
344	[652, 653]	2392	[1516, 3705]	4440	[5706, 80]	6488	[7245, 3131]
345	[654, 655]	2393	[3706, 2983]	4441	[5707, 5451]	6489	[5401, 6200]
346	[656, 657]	2394	[1005, 3707]	4442	[1338, 1490]	6490	[7246, 1493]
347	[658, 620]	2395	[3708, 3709]	4443	[1121, 2745]	6491	[7247, 108]
348	[659, 596]	2396	[2706, 2929]	4444	[5708, 2903]	6492	[7248, 468]
349	[660, 661]	2397	[3501, 1513]	4445	[1123, 293]	6493	[7249, 5957]
350	[662, 663]	2398	[3710, 3711]	4446	[5709, 1295]	6494	[1195, 3014]
351	[664, 216]	2399	[3712, 107]	4447	[5710, 3621]	6495	[7250, 6232]
352	[665, 666]	2400	[3713, 3714]	4448	[5711, 1387]	6496	[7251, 1464]
353	[667, 668]	2401	[64, 2817]	4449	[5712, 386]	6497	[7252, 1332]
354	[12, 669]	2402	[3715, 3716]	4450	[5713, 104]	6498	[7253, 3036]
355	[172, 670]	2403	[3717, 3718]	4451	[1438, 5548]	6499	[6210, 2731]
356	[671, 228]	2404	[3719, 1462]	4452	[5714, 5715]	6500	[7254, 3761]
357	[672, 673]	2405	[3171, 360]	4453	[5716, 3023]	6501	[7255, 1480]
358	[674, 675]	2406	[3720, 1000]	4454	[5717, 3946]	6502	[6181, 1085]
359	[676, 504]	2407	[3721, 1095]	4455	[3595, 5718]	6503	[5313, 3310]
360	[677, 541]	2408	[3722, 3171]	4456	[5719, 5720]	6504	[7256, 3151]
361	[678, 679]	2409	[3119, 3531]	4457	[3181, 3975]	6505	[5781, 3773]

362	[680, 681]	2410	[978, 3723]	4458	[5721, 3509]	6506	[7257, 935]
363	[682, 683]	2411	[3724, 3725]	4459	[94, 3879]	6507	[7258, 1573]
364	[684, 43]	2412	[3726, 3207]	4460	[5722, 923]	6508	[3001, 3011]
365	[685, 686]	2413	[3727, 993]	4461	[5723, 75]	6509	[6196, 5738]
366	[687, 688]	2414	[3038, 3728]	4462	[5724, 416]	6510	[7259, 429]
367	[689, 673]	2415	[3729, 3466]	4463	[3161, 3016]	6511	[1456, 3007]
368	[690, 691]	2416	[1574, 3730]	4464	[5725, 5726]	6512	[7260, 3984]
369	[692, 693]	2417	[1253, 3731]	4465	[5727, 2884]	6513	[7261, 306]
370	[38, 694]	2418	[1399, 3732]	4466	[5728, 5729]	6514	[7262, 343]
371	[695, 509]	2419	[2992, 1511]	4467	[5730, 461]	6515	[5753, 7263]
372	[696, 697]	2420	[3733, 3734]	4468	[5731, 3500]	6516	[7264, 5728]
373	[698, 699]	2421	[3735, 3736]	4469	[5732, 2933]	6517	[7265, 1204]
374	[700, 701]	2422	[3737, 100]	4470	[1295, 3538]	6518	[1259, 5659]
375	[702, 703]	2423	[3738, 3739]	4471	[1280, 423]	6519	[7266, 2831]
376	[704, 705]	2424	[3740, 2927]	4472	[5733, 908]	6520	[7267, 990]
377	[706, 707]	2425	[1119, 3025]	4473	[5734, 5735]	6521	[7268, 3327]
378	[708, 709]	2426	[3741, 261]	4474	[5736, 1231]	6522	[1203, 5765]
379	[710, 711]	2427	[3423, 3739]	4475	[5580, 920]	6523	[7269, 5529]
380	[712, 713]	2428	[3166, 3516]	4476	[1206, 3109]	6524	[3163, 2702]
381	[714, 715]	2429	[3742, 1524]	4477	[5737, 2745]	6525	[7270, 7183]
382	[716, 717]	2430	[3743, 1270]	4478	[5738, 1101]	6526	[7271, 2766]
383	[574, 718]	2431	[2850, 286]	4479	[3527, 5739]	6527	[7272, 1371]
384	[719, 720]	2432	[3744, 2828]	4480	[5740, 3746]	6528	[7273, 2920]
385	[721, 722]	2433	[3745, 3746]	4481	[5741, 3409]	6529	[7274, 5906]
386	[723, 724]	2434	[3747, 3305]	4482	[5742, 3005]	6530	[7275, 1170]
387	[725, 726]	2435	[3748, 3749]	4483	[5743, 5744]	6531	[6200, 5364]
388	[164, 727]	2436	[3750, 3614]	4484	[1564, 5356]	6532	[7276, 6097]
389	[166, 728]	2437	[3751, 1171]	4485	[5745, 1242]	6533	[7277, 1449]
390	[729, 730]	2438	[3752, 3515]	4486	[5746, 5747]	6534	[7278, 1089]
391	[731, 732]	2439	[3753, 2696]	4487	[5748, 5749]	6535	[7279, 3595]
392	[733, 734]	2440	[3754, 3321]	4488	[5750, 5751]	6536	[7280, 5565]
393	[735, 736]	2441	[3755, 480]	4489	[383, 2913]	6537	[7281, 2788]
394	[737, 738]	2442	[3756, 3159]	4490	[1397, 907]	6538	[7198, 3922]
395	[739, 740]	2443	[3757, 3758]	4491	[5752, 5753]	6539	[5482, 6276]
396	[741, 742]	2444	[3759, 3760]	4492	[5593, 270]	6540	[2717, 5963]
397	[743, 744]	2445	[1372, 3761]	4493	[1410, 3815]	6541	[7282, 1189]
398	[745, 746]	2446	[1356, 3762]	4494	[5754, 3255]	6542	[7224, 951]
399	[747, 748]	2447	[3763, 116]	4495	[5755, 5756]	6543	[7283, 2860]
400	[749, 750]	2448	[3764, 3765]	4496	[5757, 3928]	6544	[7284, 462]
401	[751, 752]	2449	[3766, 1046]	4497	[5758, 3440]	6545	[7285, 380]
402	[753, 754]	2450	[3767, 1599]	4498	[5668, 3784]	6546	[5345, 2823]
403	[755, 756]	2451	[919, 3048]	4499	[5759, 5760]	6547	[7286, 960]
404	[757, 758]	2452	[3768, 3769]	4500	[3473, 5761]	6548	[7287, 2916]
405	[759, 760]	2453	[258, 3680]	4501	[5762, 5427]	6549	[7288, 2954]

406	[761, 762]	2454	[2821, 3770]	4502	[3606, 5763]	6550	[7289, 1402]
407	[763, 764]	2455	[2823, 400]	4503	[5764, 5765]	6551	[3629, 3798]
408	[765, 45]	2456	[1249, 1368]	4504	[5766, 988]	6552	[6145, 2986]
409	[766, 767]	2457	[3771, 1037]	4505	[5767, 3670]	6553	[1379, 5744]
410	[768, 769]	2458	[3772, 3773]	4506	[1336, 2934]	6554	[7290, 1234]
411	[770, 771]	2459	[3054, 3517]	4507	[5768, 1335]	6555	[7291, 2875]
412	[772, 773]	2460	[3774, 3206]	4508	[5769, 2809]	6556	[7292, 5405]
413	[774, 613]	2461	[3775, 3366]	4509	[1112, 904]	6557	[2879, 3670]
414	[775, 776]	2462	[3024, 3776]	4510	[5770, 5771]	6558	[3304, 5746]
415	[777, 141]	2463	[3777, 3778]	4511	[5772, 3138]	6559	[7293, 381]
416	[778, 779]	2464	[3779, 3780]	4512	[5773, 1042]	6560	[7294, 3208]
417	[780, 781]	2465	[3781, 3782]	4513	[5774, 5775]	6561	[5557, 1355]
418	[782, 783]	2466	[3783, 340]	4514	[3895, 5776]	6562	[6187, 6005]
419	[784, 785]	2467	[3784, 2953]	4515	[3486, 5777]	6563	[7295, 1138]
420	[786, 787]	2468	[3785, 2702]	4516	[86, 1304]	6564	[7296, 3190]
421	[788, 789]	2469	[3786, 3787]	4517	[2929, 1058]	6565	[7297, 3545]
422	[790, 791]	2470	[3788, 3166]	4518	[5778, 5779]	6566	[7298, 3800]
423	[154, 792]	2471	[1434, 2796]	4519	[5780, 5781]	6567	[7299, 3583]
424	[793, 513]	2472	[3789, 2683]	4520	[5782, 3668]	6568	[5550, 5508]
425	[794, 795]	2473	[3790, 3791]	4521	[5783, 370]	6569	[7300, 3256]
426	[796, 797]	2474	[1216, 3563]	4522	[5784, 5785]	6570	[2709, 5307]
427	[798, 799]	2475	[3792, 1522]	4523	[5786, 3927]	6571	[7301, 1229]
428	[800, 801]	2476	[2845, 3431]	4524	[5787, 1463]	6572	[7302, 1169]
429	[8, 802]	2477	[3411, 3793]	4525	[5788, 916]	6573	[1132, 6068]
430	[803, 804]	2478	[3794, 1079]	4526	[5789, 2770]	6574	[3602, 3751]
431	[724, 54]	2479	[2984, 3121]	4527	[5790, 5760]	6575	[5747, 5512]
432	[805, 714]	2480	[3795, 3650]	4528	[5791, 1368]	6576	[7303, 3336]
433	[806, 807]	2481	[3796, 2722]	4529	[5792, 1235]	6577	[7304, 5313]
434	[808, 809]	2482	[3797, 2687]	4530	[3340, 5793]	6578	[7305, 921]
435	[810, 811]	2483	[2749, 1092]	4531	[5794, 73]	6579	[7306, 3728]
436	[812, 813]	2484	[3798, 1055]	4532	[5795, 939]	6580	[7307, 5790]
437	[814, 815]	2485	[3799, 3649]	4533	[5796, 5797]	6581	[7308, 5319]
438	[816, 817]	2486	[1532, 3800]	4534	[5798, 1045]	6582	[359, 365]
439	[818, 819]	2487	[3801, 3802]	4535	[5799, 437]	6583	[7263, 2985]
440	[820, 821]	2488	[3803, 3804]	4536	[3734, 3084]	6584	[1370, 3331]
441	[822, 823]	2489	[3805, 1029]	4537	[5800, 3006]	6585	[7309, 5494]
442	[824, 825]	2490	[3806, 3237]	4538	[3224, 3640]	6586	[7310, 1195]
443	[826, 827]	2491	[3807, 2820]	4539	[2939, 482]	6587	[6082, 6163]
444	[828, 829]	2492	[3496, 3808]	4540	[5801, 474]	6588	[5739, 5380]
445	[830, 831]	2493	[3809, 1483]	4541	[5802, 3228]	6589	[466, 5690]
446	[832, 640]	2494	[932, 3810]	4542	[5803, 2761]	6590	[7311, 1331]
447	[234, 833]	2495	[3811, 29]	4543	[5804, 5526]	6591	[6163, 114]
448	[807, 834]	2496	[3812, 3813]	4544	[5805, 5331]	6592	[7312, 1416]
449	[835, 836]	2497	[3814, 3815]	4545	[3583, 1020]	6593	[7313, 1342]

450	[837, 838]	2498	[3816, 3817]	4546	[5806, 5807]	6594	[5494, 1473]
451	[839, 840]	2499	[3141, 3818]	4547	[3151, 3009]	6595	[7314, 5543]
452	[841, 842]	2500	[3819, 301]	4548	[5808, 87]	6596	[3288, 7198]
453	[843, 844]	2501	[3820, 3821]	4549	[5809, 89]	6597	[7315, 1301]
454	[845, 846]	2502	[3822, 3532]	4550	[5810, 5811]	6598	[7316, 1340]
455	[847, 848]	2503	[2865, 1462]	4551	[3244, 427]	6599	[7317, 3882]
456	[849, 850]	2504	[3823, 3079]	4552	[5812, 5813]	6600	[471, 5785]
457	[851, 852]	2505	[3824, 101]	4553	[5814, 3536]	6601	[7318, 5304]
458	[853, 517]	2506	[3825, 3648]	4554	[5815, 1565]	6602	[3655, 5542]
459	[854, 855]	2507	[1567, 1126]	4555	[5816, 1550]	6603	[7319, 2879]
460	[856, 857]	2508	[3112, 3826]	4556	[5817, 2895]	6604	[7320, 1304]
461	[858, 859]	2509	[3827, 3828]	4557	[5818, 1184]	6605	[7321, 5351]
462	[860, 861]	2510	[3829, 2923]	4558	[5819, 3702]	6606	[1549, 5530]
463	[862, 863]	2511	[1340, 1217]	4559	[5820, 1280]	6607	[7322, 5326]
464	[864, 865]	2512	[3830, 3831]	4560	[5821, 3540]	6608	[3723, 1396]
465	[866, 845]	2513	[3832, 71]	4561	[5822, 5823]	6609	[7323, 3506]
466	[867, 654]	2514	[3833, 3274]	4562	[5824, 2869]	6610	[3702, 3741]
467	[868, 869]	2515	[3283, 3834]	4563	[5825, 1058]	6611	[7324, 6227]
468	[870, 871]	2516	[3036, 3835]	4564	[5826, 404]	6612	[7325, 5323]
469	[872, 873]	2517	[3836, 3708]	4565	[5827, 5828]	6613	[3240, 1528]
470	[874, 875]	2518	[3145, 3138]	4566	[5829, 1161]	6614	[7326, 6276]
471	[876, 877]	2519	[3837, 3838]	4567	[5830, 3489]	6615	[7327, 1098]
472	[878, 879]	2520	[3839, 2753]	4568	[5831, 5530]	6616	[2805, 5400]
473	[44, 880]	2521	[3840, 1426]	4569	[5832, 5833]	6617	[3951, 6113]
474	[881, 882]	2522	[3841, 440]	4570	[5834, 2805]	6618	[7328, 405]
475	[630, 883]	2523	[3842, 267]	4571	[5835, 314]	6619	[483, 2676]
476	[884, 885]	2524	[3843, 3794]	4572	[5836, 1250]	6620	[7329, 6068]
477	[675, 886]	2525	[3844, 3845]	4573	[5837, 3380]	6621	[2877, 3107]
478	[887, 888]	2526	[3429, 1469]	4574	[3638, 5750]	6622	[7330, 2843]
479	[889, 890]	2527	[3846, 2668]	4575	[5838, 90]	6623	[361, 3458]
480	[891, 892]	2528	[1601, 956]	4576	[5839, 272]	6624	[7331, 2949]
481	[893, 894]	2529	[3847, 3848]	4577	[5840, 3687]	6625	[7332, 2935]
482	[895, 644]	2530	[3849, 3850]	4578	[3675, 3685]	6626	[7333, 1062]
483	[144, 896]	2531	[1141, 3851]	4579	[2860, 3236]	6627	[333, 1476]
484	[897, 898]	2532	[3661, 1488]	4580	[5841, 2983]	6628	[7334, 2795]
485	[899, 900]	2533	[3852, 3853]	4581	[5842, 5421]	6629	[7335, 1294]
486	[901, 902]	2534	[2871, 1107]	4582	[5843, 3559]	6630	[6103, 5334]
487	[903, 904]	2535	[2916, 3285]	4583	[3800, 252]	6631	[3987, 3864]
488	[905, 906]	2536	[3854, 3250]	4584	[5844, 3396]	6632	[6212, 6056]
489	[907, 908]	2537	[1321, 1197]	4585	[3313, 5368]	6633	[7336, 440]
490	[909, 910]	2538	[3855, 3016]	4586	[5527, 2852]	6634	[7337, 74]
491	[911, 85]	2539	[3856, 3018]	4587	[1351, 5845]	6635	[7338, 3270]
492	[912, 913]	2540	[3857, 3593]	4588	[5846, 3277]	6636	[3168, 3561]
493	[914, 915]	2541	[3858, 3859]	4589	[1291, 5811]	6637	[7339, 445]

494	[916, 917]	2542	[3860, 396]	4590	[2894, 347]	6638	[6260, 3743]
495	[918, 919]	2543	[3579, 3861]	4591	[5847, 3333]	6639	[7340, 2942]
496	[920, 921]	2544	[3862, 3015]	4592	[1395, 3335]	6640	[3457, 3303]
497	[922, 350]	2545	[3863, 3864]	4593	[5848, 3395]	6641	[3336, 1049]
498	[923, 924]	2546	[3865, 1407]	4594	[5849, 280]	6642	[5477, 3514]
499	[925, 926]	2547	[3866, 3867]	4595	[5850, 3078]	6643	[2855, 5627]
500	[927, 928]	2548	[3031, 3868]	4596	[5851, 3411]	6644	[7341, 6298]
501	[929, 930]	2549	[3869, 3870]	4597	[5852, 1454]	6645	[7342, 3872]
502	[931, 932]	2550	[3482, 3871]	4598	[5853, 5485]	6646	[7343, 3141]
503	[933, 934]	2551	[2682, 3872]	4599	[5854, 5590]	6647	[5859, 5618]
504	[935, 936]	2552	[3873, 2895]	4600	[957, 304]	6648	[7344, 446]
505	[937, 938]	2553	[3773, 3440]	4601	[5855, 956]	6649	[3959, 5559]
506	[939, 940]	2554	[3874, 1003]	4602	[5856, 2693]	6650	[7345, 1500]
507	[941, 942]	2555	[3815, 1498]	4603	[5857, 372]	6651	[7346, 3562]
508	[943, 944]	2556	[3684, 3421]	4604	[5339, 1160]	6652	[3732, 2743]
509	[945, 946]	2557	[1325, 3436]	4605	[1285, 5858]	6653	[7347, 2719]
510	[947, 948]	2558	[3875, 3876]	4606	[2754, 5859]	6654	[6350, 5663]
511	[949, 950]	2559	[952, 3877]	4607	[5605, 1157]	6655	[1309, 3769]
512	[951, 952]	2560	[3878, 3879]	4608	[5860, 126]	6656	[7348, 7122]
513	[298, 953]	2561	[1021, 3594]	4609	[3266, 5861]	6657	[3973, 3781]
514	[954, 955]	2562	[124, 3880]	4610	[1186, 2801]	6658	[1146, 3079]
515	[956, 957]	2563	[3333, 3161]	4611	[5862, 69]	6659	[7349, 1339]
516	[958, 959]	2564	[3881, 2953]	4612	[3749, 5323]	6660	[7350, 6187]
517	[273, 960]	2565	[364, 3882]	4613	[5863, 3002]	6661	[7351, 3132]
518	[961, 962]	2566	[349, 312]	4614	[5864, 1538]	6662	[5683, 433]
519	[963, 964]	2567	[3883, 3884]	4615	[5865, 5866]	6663	[3889, 98]
520	[965, 466]	2568	[3885, 1355]	4616	[5867, 5746]	6664	[5451, 1562]
521	[966, 967]	2569	[3886, 3887]	4617	[5868, 5429]	6665	[7352, 1256]
522	[968, 969]	2570	[3888, 70]	4618	[5869, 5830]	6666	[7353, 3659]
523	[970, 971]	2571	[1598, 3889]	4619	[5870, 5871]	6667	[986, 5524]
524	[972, 973]	2572	[3890, 1181]	4620	[5872, 5873]	6668	[2944, 5504]
525	[84, 974]	2573	[3891, 2858]	4621	[5874, 15]	6669	[7354, 3084]
526	[975, 976]	2574	[1393, 3892]	4622	[5875, 3193]	6670	[5538, 283]
527	[977, 978]	2575	[1102, 3893]	4623	[5876, 3046]	6671	[7355, 5960]
528	[979, 980]	2576	[3894, 3895]	4624	[5877, 5606]	6672	[7356, 3273]
529	[981, 982]	2577	[3896, 951]	4625	[343, 71]	6673	[7357, 2746]
530	[983, 984]	2578	[3897, 2743]	4626	[5878, 5343]	6674	[7358, 1595]
531	[985, 446]	2579	[3520, 1227]	4627	[5879, 5880]	6675	[7359, 287]
532	[422, 986]	2580	[3051, 3898]	4628	[5763, 3562]	6676	[5561, 2728]
533	[426, 987]	2581	[3899, 3900]	4629	[5881, 976]	6677	[7360, 5858]
534	[988, 989]	2582	[3901, 3902]	4630	[5882, 5883]	6678	[7361, 1386]
535	[403, 990]	2583	[3903, 3568]	4631	[5656, 3968]	6679	[5912, 2756]
536	[991, 992]	2584	[1474, 3261]	4632	[5884, 2900]	6680	[1114, 5692]
537	[993, 994]	2585	[3904, 3007]	4633	[5885, 77]	6681	[7362, 972]

538	[995, 996]	2586	[3431, 3105]	4634	[5886, 3222]	6682	[5943, 2931]
539	[997, 998]	2587	[3905, 3906]	4635	[5887, 2838]	6683	[3360, 5425]
540	[999, 1000]	2588	[3907, 444]	4636	[26, 6]	6684	[7363, 5314]
541	[1001, 1002]	2589	[3826, 3908]	4637	[1267, 3283]	6685	[3387, 5331]
542	[1003, 1004]	2590	[3909, 3844]	4638	[1507, 5888]	6686	[7364, 5777]
543	[1000, 1005]	2591	[3910, 1430]	4639	[5889, 3586]	6687	[1536, 1178]
544	[1006, 1007]	2592	[3911, 3473]	4640	[5890, 5716]	6688	[3400, 2981]
545	[1008, 1009]	2593	[3912, 109]	4641	[5891, 5325]	6689	[7365, 6323]
546	[1010, 1011]	2594	[3913, 3914]	4642	[5892, 3564]	6690	[2921, 6224]
547	[1012, 1013]	2595	[3915, 3365]	4643	[5893, 3816]	6691	[7366, 3817]
548	[1014, 1015]	2596	[3916, 1504]	4644	[5894, 2673]	6692	[7367, 463]
549	[1016, 1017]	2597	[3917, 3918]	4645	[1190, 1441]	6693	[7368, 1548]
550	[1018, 1019]	2598	[3919, 3920]	4646	[5895, 5613]	6694	[3474, 2919]
551	[1020, 1021]	2599	[3921, 3922]	4647	[5896, 5707]	6695	[2815, 1106]
552	[1022, 1023]	2600	[3923, 354]	4648	[5897, 3362]	6696	[3372, 1482]
553	[1024, 1025]	2601	[3924, 3925]	4649	[3207, 3650]	6697	[7369, 931]
554	[1026, 1027]	2602	[3926, 3467]	4650	[5898, 5899]	6698	[7370, 3387]
555	[1028, 1029]	2603	[3927, 3928]	4651	[5900, 5593]	6699	[1489, 5921]
556	[1030, 1031]	2604	[3714, 3824]	4652	[3611, 3749]	6700	[6327, 3675]
557	[1032, 1033]	2605	[3929, 3087]	4653	[5901, 3934]	6701	[7371, 3751]
558	[1034, 1035]	2606	[3930, 2729]	4654	[5902, 5548]	6702	[913, 6314]
559	[1036, 1037]	2607	[1271, 3470]	4655	[5903, 5904]	6703	[7372, 1092]
560	[948, 336]	2608	[1240, 2767]	4656	[5608, 5756]	6704	[7373, 5675]
561	[1038, 1039]	2609	[3931, 2972]	4657	[5905, 898]	6705	[6237, 3115]
562	[1040, 1041]	2610	[3463, 3932]	4658	[5906, 3425]	6706	[7374, 1059]
563	[1042, 1043]	2611	[3933, 3934]	4659	[2711, 5807]	6707	[7375, 6260]
564	[1044, 1045]	2612	[3935, 3]	4660	[5907, 5370]	6708	[3154, 5797]
565	[1046, 1047]	2613	[3936, 3065]	4661	[1404, 5900]	6709	[7376, 2906]
566	[1048, 1049]	2614	[3937, 3071]	4662	[5908, 353]	6710	[5307, 5298]
567	[1050, 1051]	2615	[3938, 3939]	4663	[5909, 3701]	6711	[7377, 1579]
568	[1052, 1053]	2616	[3940, 3094]	4664	[1602, 3053]	6712	[3403, 3777]
569	[1054, 1055]	2617	[3941, 3942]	4665	[5910, 1345]	6713	[7378, 2740]
570	[1056, 1057]	2618	[2780, 93]	4666	[5624, 5427]	6714	[3761, 77]
571	[1058, 1059]	2619	[3943, 2681]	4667	[116, 2868]	6715	[7379, 3381]
572	[1060, 1061]	2620	[3944, 3945]	4668	[5911, 5365]	6716	[7380, 5395]
573	[1062, 1063]	2621	[3946, 3021]	4669	[1275, 379]	6717	[2890, 5420]
574	[1064, 1065]	2622	[3102, 3947]	4670	[3231, 3570]	6718	[7381, 3474]
575	[1066, 1067]	2623	[3948, 3949]	4671	[3582, 5912]	6719	[7382, 1347]
576	[1068, 1069]	2624	[449, 3950]	4672	[5873, 2693]	6720	[7383, 3167]
577	[1070, 1071]	2625	[451, 3951]	4673	[5913, 1271]	6721	[7384, 6052]
578	[1072, 1073]	2626	[3828, 3801]	4674	[3648, 1601]	6722	[7385, 3516]
579	[1074, 1075]	2627	[3952, 3953]	4675	[3236, 349]	6723	[7386, 66]
580	[1076, 1077]	2628	[3122, 993]	4676	[5914, 2808]	6724	[3651, 3456]
581	[1078, 1079]	2629	[3954, 3070]	4677	[5915, 3592]	6725	[1168, 1023]

582	[1080, 1081]	2630	[3955, 423]	4678	[5916, 5917]	6726	[1449, 7387]
583	[1082, 1083]	2631	[1170, 3956]	4679	[3492, 5918]	6727	[7388, 2854]
584	[1084, 1085]	2632	[3957, 3958]	4680	[3409, 5580]	6728	[7389, 282]
585	[1086, 1087]	2633	[2813, 3959]	4681	[3550, 1423]	6729	[7390, 5342]
586	[1088, 1089]	2634	[3960, 3622]	4682	[3804, 3165]	6730	[7391, 3873]
587	[92, 1090]	2635	[3136, 125]	4683	[2738, 3622]	6731	[3317, 3597]
588	[1091, 4]	2636	[3961, 3563]	4684	[3633, 5919]	6732	[7392, 2865]
589	[1092, 1093]	2637	[3791, 1138]	4685	[5920, 5921]	6733	[7393, 932]
590	[1094, 410]	2638	[3962, 3963]	4686	[5922, 5923]	6734	[7394, 1470]
591	[1095, 1096]	2639	[1365, 3964]	4687	[5924, 5925]	6735	[7395, 5915]
592	[1097, 1098]	2640	[1148, 3965]	4688	[5926, 1096]	6736	[7396, 3291]
593	[1099, 1100]	2641	[3071, 3966]	4689	[3942, 3909]	6737	[7397, 6235]
594	[1101, 1102]	2642	[3967, 3968]	4690	[5927, 3268]	6738	[7398, 3290]
595	[1103, 1104]	2643	[3969, 3458]	4691	[5928, 5437]	6739	[3725, 3902]
596	[1105, 1106]	2644	[3438, 3970]	4692	[3558, 942]	6740	[7399, 1325]
597	[1107, 1108]	2645	[3971, 3501]	4693	[5673, 3189]	6741	[7400, 5542]
598	[1109, 1110]	2646	[3972, 3279]	4694	[5929, 5420]	6742	[7401, 1147]
599	[1111, 1112]	2647	[2808, 3973]	4695	[3505, 2997]	6743	[5562, 3838]
600	[1113, 1114]	2648	[3974, 2751]	4696	[3095, 3403]	6744	[3087, 5344]
601	[967, 1115]	2649	[3975, 2840]	4697	[3302, 1403]	6745	[5701, 3848]
602	[1116, 1008]	2650	[3976, 3497]	4698	[3851, 1015]	6746	[1418, 3925]
603	[1117, 1118]	2651	[904, 3340]	4699	[5930, 3917]	6747	[3461, 3683]
604	[102, 1119]	2652	[3471, 1458]	4700	[5931, 3356]	6748	[7402, 5409]
605	[1120, 1121]	2653	[3026, 3977]	4701	[3272, 2870]	6749	[3636, 1496]
606	[1122, 1123]	2654	[3978, 1076]	4702	[5932, 1069]	6750	[7403, 3810]
607	[1124, 1125]	2655	[3979, 1009]	4703	[1459, 5833]	6751	[3589, 2898]
608	[1126, 1127]	2656	[3419, 3113]	4704	[2818, 3231]	6752	[3132, 467]
609	[1128, 1129]	2657	[3980, 467]	4705	[5933, 2706]	6753	[3441, 3884]
610	[1130, 15]	2658	[3981, 3982]	4706	[5934, 30]	6754	[3709, 3873]
611	[1131, 1132]	2659	[3983, 3694]	4707	[5935, 3199]	6755	[7404, 1568]
612	[1133, 1134]	2660	[3070, 3984]	4708	[1287, 5319]	6756	[3531, 3694]
613	[1135, 901]	2661	[959, 3945]	4709	[5936, 3908]	6757	[7405, 5430]
614	[1136, 1137]	2662	[3985, 1099]	4710	[5937, 2848]	6758	[7406, 902]
615	[1138, 1139]	2663	[3986, 3987]	4711	[5938, 3232]	6759	[7407, 5352]
616	[1140, 1141]	2664	[3988, 3845]	4712	[3691, 3264]	6760	[7408, 3572]
617	[1142, 1143]	2665	[3989, 2819]	4713	[5939, 3014]	6761	[7409, 1061]
618	[1144, 1145]	2666	[1118, 1595]	4714	[5940, 3433]	6762	[7410, 3059]
619	[1083, 1146]	2667	[3990, 3991]	4715	[5941, 3410]	6763	[7411, 3294]
620	[1147, 1148]	2668	[3992, 3993]	4716	[3134, 3321]	6764	[1464, 3379]
621	[366, 1149]	2669	[3994, 3995]	4717	[5942, 5943]	6765	[7412, 2688]
622	[1150, 1151]	2670	[3996, 3997]	4718	[1500, 5915]	6766	[1528, 970]
623	[1152, 1153]	2671	[3998, 1798]	4719	[5944, 2881]	6767	[7413, 3346]
624	[1154, 450]	2672	[3999, 675]	4720	[5945, 1028]	6768	[7414, 3323]
625	[1155, 1156]	2673	[4000, 1865]	4721	[5946, 2976]	6769	[7415, 5327]

626	[1157, 1158]	2674	[4001, 1646]	4722	[3716, 5947]	6770	[7416, 324]
627	[1159, 1160]	2675	[4002, 4003]	4723	[5948, 3442]	6771	[7417, 5882]
628	[1161, 1162]	2676	[4004, 4005]	4724	[5374, 2727]	6772	[2994, 1323]
629	[1163, 1164]	2677	[1889, 855]	4725	[5949, 1088]	6773	[7418, 1580]
630	[1165, 1166]	2678	[4006, 1995]	4726	[82, 388]	6774	[7419, 3544]
631	[1167, 1168]	2679	[4007, 1913]	4727	[5950, 2910]	6775	[7420, 3612]
632	[964, 1169]	2680	[705, 4008]	4728	[5951, 2885]	6776	[3776, 1432]
633	[1127, 1170]	2681	[4009, 846]	4729	[3920, 1289]	6777	[7421, 3423]
634	[1171, 1172]	2682	[2403, 617]	4730	[5952, 3265]	6778	[7422, 3844]
635	[1173, 1047]	2683	[4010, 2170]	4731	[3567, 3606]	6779	[7423, 2672]
636	[1174, 1175]	2684	[4011, 2628]	4732	[2692, 5688]	6780	[7424, 21]
637	[1176, 1177]	2685	[4012, 4013]	4733	[5953, 3893]	6781	[7425, 3574]
638	[1178, 1179]	2686	[4014, 850]	4734	[5954, 3419]	6782	[7426, 1497]
639	[1180, 1181]	2687	[494, 590]	4735	[5955, 3098]	6783	[7427, 1127]
640	[1182, 1183]	2688	[4015, 4016]	4736	[5956, 3498]	6784	[7428, 3124]
641	[98, 1184]	2689	[4017, 2160]	4737	[5858, 5957]	6785	[5556, 254]
642	[1185, 1186]	2690	[4018, 2344]	4738	[5958, 3579]	6786	[7429, 3949]
643	[1187, 1188]	2691	[4019, 653]	4739	[5959, 920]	6787	[7430, 1357]
644	[110, 277]	2692	[4020, 4021]	4740	[5960, 2946]	6788	[7431, 3144]
645	[1189, 1190]	2693	[4022, 4023]	4741	[3545, 5961]	6789	[7432, 5960]
646	[1191, 1192]	2694	[4024, 4025]	4742	[1330, 2863]	6790	[3213, 3057]
647	[1193, 1152]	2695	[663, 4026]	4743	[5962, 65]	6791	[6108, 3492]
648	[1194, 1195]	2696	[2492, 4027]	4744	[1299, 3725]	6792	[3147, 3894]
649	[1196, 1197]	2697	[742, 4028]	4745	[407, 5652]	6793	[6027, 6177]
650	[1198, 1199]	2698	[4029, 4030]	4746	[5963, 3496]	6794	[7433, 3031]
651	[1200, 1201]	2699	[4031, 1661]	4747	[5797, 1207]	6795	[921, 1366]
652	[1202, 1203]	2700	[4032, 4033]	4748	[5964, 1232]	6796	[2766, 3953]
653	[1204, 947]	2701	[4034, 4035]	4749	[5965, 5966]	6797	[7434, 3060]
654	[1205, 1206]	2702	[4036, 4037]	4750	[5967, 1145]	6798	[3663, 1142]
655	[1207, 1208]	2703	[4038, 4039]	4751	[5968, 1082]	6799	[7435, 3542]
656	[1209, 1210]	2704	[4040, 4041]	4752	[5777, 5969]	6800	[7436, 6016]
657	[1211, 1212]	2705	[4042, 4043]	4753	[3765, 5350]	6801	[7437, 5745]
658	[1213, 366]	2706	[4044, 1675]	4754	[5970, 3895]	6802	[7438, 5663]
659	[1214, 1107]	2707	[4045, 4046]	4755	[5971, 5972]	6803	[3427, 3700]
660	[1215, 1216]	2708	[2014, 4047]	4756	[5973, 2830]	6804	[7439, 5391]
661	[1217, 1218]	2709	[2582, 496]	4757	[5974, 2794]	6805	[7440, 6282]
662	[1219, 1220]	2710	[4048, 4049]	4758	[5975, 5552]	6806	[5811, 3170]
663	[1221, 929]	2711	[4050, 515]	4759	[3329, 5447]	6807	[7441, 1408]
664	[1222, 1223]	2712	[4051, 4052]	4760	[934, 3269]	6808	[3256, 5377]
665	[1224, 1225]	2713	[4053, 4054]	4761	[5354, 20]	6809	[7442, 1286]
666	[1226, 1227]	2714	[4055, 576]	4762	[5976, 2814]	6810	[3308, 5499]
667	[1228, 1229]	2715	[2201, 4056]	4763	[3210, 5624]	6811	[7443, 3667]
668	[1230, 1231]	2716	[4057, 37]	4764	[3379, 5753]	6812	[7444, 1208]
669	[24, 1232]	2717	[4058, 4059]	4765	[5977, 5931]	6813	[6051, 5302]

670	[1233, 1234]	2718	[4060, 4061]	4766	[3769, 3129]	6814	[7445, 122]
671	[1235, 1236]	2719	[4062, 1837]	4767	[5978, 412]	6815	[7446, 3397]
672	[1237, 1238]	2720	[880, 4063]	4768	[5979, 337]	6816	[6035, 6263]
673	[1239, 1240]	2721	[4064, 4065]	4769	[5980, 3975]	6817	[7447, 3041]
674	[1241, 1242]	2722	[2487, 4066]	4770	[5981, 413]	6818	[7448, 5562]
675	[1243, 1244]	2723	[859, 4067]	4771	[5982, 3966]	6819	[7449, 3105]
676	[1245, 1018]	2724	[1993, 4068]	4772	[5983, 5984]	6820	[7450, 3778]
677	[1246, 1247]	2725	[4069, 2304]	4773	[5985, 1162]	6821	[7451, 3427]
678	[1248, 1249]	2726	[2656, 4070]	4774	[5986, 483]	6822	[7452, 3275]
679	[1250, 1251]	2727	[4005, 4071]	4775	[5987, 5686]	6823	[7453, 266]
680	[1252, 1253]	2728	[4072, 2526]	4776	[3195, 28]	6824	[1400, 992]
681	[1254, 1255]	2729	[4073, 4074]	4777	[351, 3413]	6825	[7454, 350]
682	[1256, 1257]	2730	[504, 4075]	4778	[5988, 3829]	6826	[7455, 2974]
683	[1258, 1259]	2731	[4076, 2208]	4779	[5989, 5356]	6827	[3604, 5399]
684	[1260, 1261]	2732	[688, 1795]	4780	[5990, 1537]	6828	[5524, 3734]
685	[1262, 1263]	2733	[4077, 4078]	4781	[2868, 906]	6829	[7456, 5688]
686	[1264, 1265]	2734	[4079, 4080]	4782	[1031, 1419]	6830	[7457, 3753]
687	[1266, 1267]	2735	[4081, 2284]	4783	[2935, 1547]	6831	[7458, 389]
688	[1268, 1269]	2736	[4082, 4083]	4784	[5991, 265]	6832	[3355, 3839]
689	[1270, 1271]	2737	[1885, 4084]	4785	[1149, 3052]	6833	[7459, 3058]
690	[1272, 1273]	2738	[4085, 2098]	4786	[2714, 3362]	6834	[7460, 5472]
691	[1274, 1275]	2739	[4086, 863]	4787	[5992, 5993]	6835	[2849, 3391]
692	[1276, 1277]	2740	[748, 1971]	4788	[5994, 1571]	6836	[1423, 5728]
693	[1278, 1279]	2741	[1789, 818]	4789	[5995, 1004]	6837	[7461, 3798]
694	[76, 1280]	2742	[4087, 2041]	4790	[5996, 5665]	6838	[2795, 322]
695	[1281, 947]	2743	[4088, 4089]	4791	[424, 265]	6839	[7462, 3743]
696	[1282, 1154]	2744	[2114, 1709]	4792	[3817, 2749]	6840	[1231, 5662]
697	[1283, 925]	2745	[1966, 2142]	4793	[5997, 1530]	6841	[2784, 1577]
698	[1284, 1285]	2746	[2609, 4090]	4794	[5998, 1248]	6842	[7463, 7335]
699	[1286, 1287]	2747	[4091, 4008]	4795	[3821, 3718]	6843	[7464, 2984]
700	[1288, 1289]	2748	[2388, 1919]	4796	[5999, 3507]	6844	[7465, 3784]
701	[1290, 1291]	2749	[4092, 2481]	4797	[5866, 6000]	6845	[7466, 6021]
702	[1292, 1293]	2750	[2631, 4093]	4798	[3731, 3486]	6846	[7467, 17]
703	[1294, 1295]	2751	[861, 2061]	4799	[6001, 5861]	6847	[3659, 5745]
704	[1296, 1297]	2752	[4094, 4095]	4800	[6002, 5947]	6848	[1345, 2716]
705	[1298, 1299]	2753	[4096, 510]	4801	[6003, 3824]	6849	[2725, 478]
706	[1300, 1301]	2754	[4097, 4098]	4802	[6004, 6005]	6850	[7468, 2671]
707	[1302, 1303]	2755	[4099, 4100]	4803	[6006, 264]	6851	[7469, 1553]
708	[1304, 934]	2756	[4101, 1926]	4804	[6007, 1268]	6852	[7470, 5750]
709	[1305, 1306]	2757	[813, 4102]	4805	[6008, 3714]	6853	[5361, 3758]
710	[417, 1307]	2758	[4103, 686]	4806	[6009, 3003]	6854	[7471, 6103]
711	[1308, 1309]	2759	[4104, 4105]	4807	[6010, 1111]	6855	[7472, 1093]
712	[1310, 1311]	2760	[4106, 4107]	4808	[3030, 1278]	6856	[7473, 910]
713	[1312, 1313]	2761	[4108, 4109]	4809	[6011, 3981]	6857	[7474, 7224]

714	[1314, 1315]	2762	[4110, 4111]	4810	[5630, 3389]	6858	[2942, 3371]
715	[1316, 335]	2763	[4112, 1737]	4811	[2861, 1261]	6859	[7475, 3372]
716	[1317, 1318]	2764	[4113, 4114]	4812	[6012, 2759]	6860	[405, 1198]
717	[1319, 1320]	2765	[4115, 4116]	4813	[66, 5701]	6861	[7476, 290]
718	[1063, 1321]	2766	[4117, 811]	4814	[6013, 6014]	6862	[7477, 1545]
719	[1322, 1323]	2767	[2148, 2021]	4815	[6015, 3117]	6863	[7478, 6020]
720	[1324, 1325]	2768	[4107, 4118]	4816	[6016, 3142]	6864	[2790, 3850]
721	[1326, 1327]	2769	[4119, 2320]	4817	[6017, 974]	6865	[982, 5735]
722	[1328, 1282]	2770	[4120, 1894]	4818	[6018, 3454]	6866	[5947, 2788]
723	[1329, 1330]	2771	[4121, 4122]	4819	[373, 5880]	6867	[7479, 2708]
724	[1331, 1332]	2772	[4123, 4124]	4820	[3522, 5316]	6868	[3739, 1114]
725	[1333, 406]	2773	[4125, 4126]	4821	[6019, 5763]	6869	[2885, 1516]
726	[1334, 1335]	2774	[4127, 2207]	4822	[2701, 6020]	6870	[6263, 1406]
727	[319, 332]	2775	[4128, 2635]	4823	[6021, 6022]	6871	[7480, 3942]
728	[323, 1336]	2776	[4129, 4130]	4824	[6023, 950]	6872	[7481, 5521]
729	[1337, 476]	2777	[4131, 2120]	4825	[3559, 1220]	6873	[7482, 1474]
730	[460, 1338]	2778	[2490, 4132]	4826	[5512, 1263]	6874	[7483, 86]
731	[1339, 1340]	2779	[4133, 712]	4827	[5485, 308]	6875	[7484, 93]
732	[1341, 1342]	2780	[4134, 2648]	4828	[6024, 5803]	6876	[7485, 1238]
733	[1343, 1344]	2781	[4135, 4040]	4829	[3068, 5972]	6877	[5520, 1097]
734	[1183, 1345]	2782	[4136, 4137]	4830	[3556, 95]	6878	[1467, 1166]
735	[1346, 1347]	2783	[4138, 1799]	4831	[1227, 3706]	6879	[5785, 3156]
736	[1348, 1349]	2784	[4139, 4140]	4832	[6025, 103]	6880	[7486, 6100]
737	[1350, 1351]	2785	[4141, 233]	4833	[6026, 6027]	6881	[7487, 2765]
738	[1352, 256]	2786	[4142, 1938]	4834	[6028, 3911]	6882	[7488, 436]
739	[1353, 1354]	2787	[4143, 4144]	4835	[6029, 3964]	6883	[7489, 3627]
740	[1355, 1356]	2788	[4145, 679]	4836	[6030, 5460]	6884	[5506, 89]
741	[477, 1357]	2789	[4146, 4147]	4837	[6031, 5387]	6885	[7490, 3198]
742	[479, 1358]	2790	[4148, 4149]	4838	[462, 3974]	6886	[5440, 3408]
743	[1359, 1360]	2791	[4150, 2260]	4839	[6032, 3541]	6887	[7491, 477]
744	[106, 1361]	2792	[2367, 4151]	4840	[6033, 1157]	6888	[7492, 2732]
745	[1362, 1363]	2793	[4152, 633]	4841	[6034, 6035]	6889	[2949, 5823]
746	[1364, 1365]	2794	[4153, 2631]	4842	[3705, 3018]	6890	[7493, 1243]
747	[1366, 1367]	2795	[4154, 4054]	4843	[6036, 5551]	6891	[5531, 398]
748	[1368, 271]	2796	[1698, 847]	4844	[6037, 1394]	6892	[5596, 900]
749	[1369, 1172]	2797	[2074, 4155]	4845	[6038, 1115]	6893	[7494, 2703]
750	[329, 1370]	2798	[4156, 1931]	4846	[6039, 1466]	6894	[7495, 5888]
751	[1188, 1371]	2799	[4157, 1906]	4847	[3459, 79]	6895	[7496, 3145]
752	[420, 1372]	2800	[4158, 2062]	4848	[1057, 276]	6896	[3415, 403]
753	[1373, 1374]	2801	[4159, 2131]	4849	[3880, 3804]	6897	[7497, 2921]
754	[1375, 1158]	2802	[4160, 2138]	4850	[6040, 3653]	6898	[7498, 1217]
755	[1376, 1377]	2803	[4161, 729]	4851	[5883, 1443]	6899	[7499, 5751]
756	[1378, 1379]	2804	[4090, 4162]	4852	[6041, 1302]	6900	[3859, 2932]
757	[1380, 436]	2805	[4163, 4164]	4853	[1017, 2763]	6901	[7500, 3892]

758	[1381, 1382]	2806	[4165, 654]	4854	[6042, 3421]	6902	[7501, 3179]
759	[1383, 1080]	2807	[2396, 697]	4855	[5715, 5440]	6903	[1169, 5771]
760	[1384, 1385]	2808	[4166, 730]	4856	[6043, 5873]	6904	[2812, 3149]
761	[1386, 1316]	2809	[4167, 2186]	4857	[6044, 393]	6905	[7502, 1541]
762	[1387, 1388]	2810	[4168, 4169]	4858	[6045, 326]	6906	[7503, 6331]
763	[1389, 1390]	2811	[4170, 4171]	4859	[6046, 1128]	6907	[7504, 7505]
764	[1391, 1204]	2812	[4172, 4173]	4860	[356, 2775]	6908	[7506, 1362]
765	[1392, 1393]	2813	[4174, 4175]	4861	[6047, 3032]	6909	[3697, 1302]
766	[1394, 1395]	2814	[635, 4176]	4862	[3884, 5899]	6910	[7507, 76]
767	[1396, 1397]	2815	[744, 4177]	4863	[5386, 1128]	6911	[7508, 1338]
768	[1398, 1399]	2816	[4178, 797]	4864	[3220, 2958]	6912	[7509, 5363]
769	[1232, 1400]	2817	[128, 4179]	4865	[6048, 6049]	6913	[7510, 3456]
770	[1401, 1402]	2818	[4180, 4181]	4866	[6050, 6051]	6914	[7511, 7512]
771	[1403, 1404]	2819	[4182, 4183]	4867	[6052, 5597]	6915	[5395, 1039]
772	[1405, 1406]	2820	[4184, 4185]	4868	[3850, 3293]	6916	[7513, 936]
773	[1407, 1408]	2821	[4186, 2589]	4869	[6053, 3344]	6917	[6197, 2941]
774	[1409, 1410]	2822	[4187, 749]	4870	[6054, 447]	6918	[7514, 6098]
775	[1411, 1412]	2823	[4188, 751]	4871	[6055, 6056]	6919	[5776, 1237]
776	[1413, 1414]	2824	[1713, 4189]	4872	[5350, 914]	6920	[7515, 2691]
777	[1415, 279]	2825	[2216, 1763]	4873	[6057, 6058]	6921	[6172, 5642]
778	[1416, 1417]	2826	[4190, 4191]	4874	[6059, 401]	6922	[5376, 3182]
779	[435, 1348]	2827	[4192, 4193]	4875	[6060, 1016]	6923	[7516, 333]
780	[1033, 1418]	2828	[4194, 4195]	4876	[6061, 392]	6924	[7517, 5426]
781	[1419, 1420]	2829	[727, 4196]	4877	[6062, 2692]	6925	[7518, 3322]
782	[1421, 1244]	2830	[4197, 4043]	4878	[6063, 3626]	6926	[7519, 6210]
783	[1422, 1423]	2831	[4198, 2439]	4879	[6064, 5729]	6927	[7520, 3851]
784	[433, 1424]	2832	[4199, 4098]	4880	[6065, 5644]	6928	[3683, 3294]
785	[1425, 109]	2833	[4200, 4201]	4881	[6066, 101]	6929	[7521, 6350]
786	[1108, 1426]	2834	[4202, 4203]	4882	[6067, 5718]	6930	[7522, 5344]
787	[1427, 1428]	2835	[4204, 4121]	4883	[6068, 5643]	6931	[2727, 1035]
788	[1429, 1430]	2836	[4205, 4206]	4884	[2744, 1155]	6932	[7523, 1090]
789	[1431, 1432]	2837	[2453, 4207]	4885	[5575, 1291]	6933	[7524, 5575]
790	[1433, 1276]	2838	[4208, 2428]	4886	[6069, 336]	6934	[5421, 404]
791	[955, 1434]	2839	[4209, 876]	4887	[3949, 272]	6935	[7525, 3712]
792	[300, 383]	2840	[4210, 1954]	4888	[6070, 2967]	6936	[3291, 6248]
793	[296, 954]	2841	[4211, 4129]	4889	[2839, 5596]	6937	[928, 2996]
794	[1435, 1436]	2842	[4212, 1784]	4890	[6000, 3876]	6938	[7526, 3377]
795	[1437, 1438]	2843	[4213, 4130]	4891	[6071, 2919]	6939	[7527, 3707]
796	[1439, 1440]	2844	[4214, 2584]	4892	[2756, 3649]	6940	[7528, 268]
797	[1441, 1442]	2845	[4215, 2123]	4893	[6072, 1194]	6941	[473, 3452]
798	[1443, 1444]	2846	[4216, 554]	4894	[6073, 3173]	6942	[7529, 2771]
799	[1445, 1446]	2847	[4217, 4218]	4895	[6074, 1293]	6943	[908, 3584]
800	[1447, 1366]	2848	[4219, 4220]	4896	[6075, 6076]	6944	[5584, 5870]
801	[1448, 1449]	2849	[4221, 4222]	4897	[6077, 3801]	6945	[2965, 5680]

802	[16, 1450]	2850	[4223, 550]	4898	[6078, 3101]	6946	[7530, 3685]
803	[1451, 1452]	2851	[4224, 4225]	4899	[6079, 5615]	6947	[1426, 3636]
804	[1453, 1454]	2852	[4226, 38]	4900	[5338, 3116]	6948	[7531, 5793]
805	[1455, 1456]	2853	[4227, 740]	4901	[6080, 1279]	6949	[7532, 481]
806	[1457, 1458]	2854	[4228, 4229]	4902	[6081, 6082]	6950	[7533, 2670]
807	[389, 1459]	2855	[4230, 4231]	4903	[6083, 3093]	6951	[7231, 7432]
808	[18, 369]	2856	[2027, 4232]	4904	[6084, 6085]	6952	[3810, 5882]
809	[1460, 1461]	2857	[1952, 4233]	4905	[6086, 5340]	6953	[7534, 5900]
810	[1462, 997]	2858	[4234, 4106]	4906	[3876, 6087]	6954	[6370, 6097]
811	[1463, 1464]	2859	[4235, 574]	4907	[6088, 3489]	6955	[6096, 6102]
812	[1465, 1466]	2860	[4236, 2034]	4908	[6089, 385]	6956	[3893, 3581]
813	[973, 1467]	2861	[623, 4237]	4909	[6090, 1156]	6957	[7535, 1469]
814	[1468, 297]	2862	[4238, 4239]	4910	[2757, 6091]	6958	[7536, 5380]
815	[1469, 1470]	2863	[4240, 4132]	4911	[6092, 3143]	6959	[7537, 1294]
816	[1471, 1472]	2864	[2078, 4241]	4912	[6093, 3457]	6960	[7538, 396]
817	[1473, 1474]	2865	[1719, 2047]	4913	[3165, 1110]	6961	[7539, 5537]
818	[1475, 1476]	2866	[1795, 4242]	4914	[2752, 2790]	6962	[1229, 1240]
819	[1236, 1477]	2867	[4243, 4244]	4915	[5718, 3017]	6963	[3064, 3252]
820	[1478, 1479]	2868	[4245, 4246]	4916	[6094, 3705]	6964	[7540, 2724]
821	[1480, 1068]	2869	[4247, 4248]	4917	[6056, 3553]	6965	[7541, 373]
822	[1481, 1482]	2870	[4249, 655]	4918	[6095, 6096]	6966	[3371, 5908]
823	[1483, 1484]	2871	[2563, 2281]	4919	[6097, 5613]	6967	[7542, 1303]
824	[1485, 1486]	2872	[4250, 4251]	4920	[5334, 3073]	6968	[7543, 3004]
825	[938, 1487]	2873	[4252, 4253]	4921	[6098, 6095]	6969	[7544, 1379]
826	[1488, 1489]	2874	[4254, 4255]	4922	[3539, 6099]	6970	[7545, 384]
827	[1490, 1221]	2875	[236, 4256]	4923	[6100, 6101]	6971	[7546, 1168]
828	[1491, 1492]	2876	[1999, 2491]	4924	[3535, 6049]	6972	[3365, 6289]
829	[1493, 1494]	2877	[4257, 4258]	4925	[5616, 1292]	6973	[7547, 2871]
830	[1495, 1496]	2878	[4259, 4260]	4926	[6102, 6103]	6974	[1035, 472]
831	[969, 1497]	2879	[4261, 4262]	4927	[6049, 6100]	6975	[7548, 1569]
832	[1498, 1412]	2880	[4263, 2637]	4928	[6101, 6104]	6976	[3831, 7231]
833	[1499, 1500]	2881	[4264, 4265]	4929	[3541, 3542]	6977	[5984, 7183]
834	[1501, 1502]	2882	[1913, 4266]	4930	[6099, 3544]	6978	[5823, 5615]
835	[1332, 1503]	2883	[4267, 4268]	4931	[3192, 1519]	6979	[5961, 7335]
836	[1504, 1505]	2884	[4269, 1774]	4932	[6105, 2932]	6980	[375, 7512]
837	[1506, 1507]	2885	[4270, 1896]	4933	[6106, 302]	6981	[6298, 6058]
838	[1508, 1509]	2886	[2300, 2530]	4934	[6107, 6108]	6982	[7549, 3877]
839	[1510, 1506]	2887	[2433, 4271]	4935	[6109, 6110]	6983	[1509, 1111]
840	[1511, 1512]	2888	[248, 741]	4936	[6111, 985]	6984	[7550, 3915]
841	[1513, 1514]	2889	[4272, 1971]	4937	[5367, 305]	6985	[7551, 3688]
842	[1515, 1516]	2890	[2348, 2532]	4938	[6112, 2982]	6986	[7552, 3836]
843	[1517, 1518]	2891	[4273, 2108]	4939	[6113, 938]	6987	[5480, 2806]
844	[1519, 1520]	2892	[4274, 2385]	4940	[5957, 1537]	6988	[7553, 3369]
845	[275, 1521]	2893	[4275, 4084]	4941	[6114, 6023]	6989	[3426, 3608]

846	[1522, 1523]	2894	[4276, 2361]	4942	[1197, 6115]	6990	[7554, 943]
847	[1053, 1524]	2895	[4277, 490]	4943	[6116, 3026]	6991	[3845, 6184]
848	[1525, 1526]	2896	[4278, 4140]	4944	[1428, 3124]	6992	[347, 324]
849	[1527, 1528]	2897	[1950, 4279]	4945	[6117, 6118]	6993	[3625, 3065]
850	[1529, 1530]	2898	[4280, 623]	4946	[401, 5529]	6994	[3698, 3829]
851	[1531, 1532]	2899	[4281, 872]	4947	[5880, 3701]	6995	[996, 3197]
852	[1533, 1534]	2900	[4282, 4283]	4948	[6119, 1149]	6996	[5888, 3181]
853	[1535, 1536]	2901	[4284, 4285]	4949	[6120, 391]	6997	[5828, 1529]
854	[1537, 1032]	2902	[2589, 229]	4950	[1406, 5749]	6998	[7555, 3977]
855	[1538, 1539]	2903	[4286, 2471]	4951	[6121, 1237]	6999	[7556, 1490]
856	[1540, 1541]	2904	[4287, 774]	4952	[6122, 3932]	7000	[7557, 5669]
857	[1542, 430]	2905	[4288, 4289]	4953	[6123, 3258]	7001	[7558, 6099]
858	[1543, 1544]	2906	[2195, 4290]	4954	[6124, 1543]	7002	[2758, 5437]
859	[1497, 1545]	2907	[4291, 4292]	4955	[6125, 5547]	7003	[7559, 5776]
860	[1546, 1547]	2908	[4293, 2262]	4956	[6126, 3182]	7004	[7560, 1377]
861	[1347, 1548]	2909	[4294, 4095]	4957	[6085, 5830]	7005	[7561, 3534]
862	[431, 1549]	2910	[4295, 4296]	4958	[6127, 6128]	7006	[3934, 2874]
863	[1408, 1550]	2911	[1817, 4297]	4959	[6129, 5963]	7007	[7562, 2994]
864	[1551, 1552]	2912	[4298, 2292]	4960	[6130, 1587]	7008	[7563, 3099]
865	[1553, 1554]	2913	[717, 4299]	4961	[6131, 2915]	7009	[7564, 2807]
866	[1555, 1556]	2914	[4300, 4301]	4962	[6132, 3948]	7010	[7565, 465]
867	[1557, 1210]	2915	[4302, 4303]	4963	[3322, 3558]	7011	[7566, 3618]
868	[1558, 1388]	2916	[4304, 1866]	4964	[6133, 5546]	7012	[7567, 3139]
869	[1559, 922]	2917	[4054, 4305]	4965	[3099, 5781]	7013	[7568, 5544]
870	[1560, 1561]	2918	[4306, 152]	4966	[6134, 3482]	7014	[7569, 360]
871	[341, 368]	2919	[4307, 2019]	4967	[6135, 73]	7015	[7570, 5438]
872	[1562, 1480]	2920	[4308, 4176]	4968	[2941, 1088]	7016	[7571, 1218]
873	[1563, 1564]	2921	[156, 1625]	4969	[6136, 1071]	7017	[7572, 111]
874	[1402, 1565]	2922	[4309, 4310]	4970	[3408, 6016]	7018	[1077, 5695]
875	[1566, 1567]	2923	[4311, 767]	4971	[5404, 3712]	7019	[7573, 1081]
876	[1568, 1569]	2924	[232, 2624]	4972	[6137, 2856]	7020	[7574, 1057]
877	[1570, 1571]	2925	[4312, 4313]	4973	[6138, 952]	7021	[7575, 3205]
878	[1572, 1400]	2926	[650, 4248]	4974	[5341, 962]	7022	[3295, 3913]
879	[1573, 1574]	2927	[2292, 1628]	4975	[3780, 3853]	7023	[7576, 3307]
880	[1575, 1576]	2928	[1837, 4314]	4976	[6139, 1578]	7024	[468, 2764]
881	[1577, 1164]	2929	[4315, 2392]	4977	[6140, 3203]	7025	[7577, 3776]
882	[1578, 1579]	2930	[4078, 622]	4978	[6141, 1523]	7026	[7578, 1544]
883	[1580, 326]	2931	[4316, 2091]	4979	[6142, 6143]	7027	[6235, 2889]
884	[1581, 1582]	2932	[4317, 2566]	4980	[335, 3760]	7028	[7579, 6118]
885	[321, 1583]	2933	[4318, 2603]	4981	[6144, 6145]	7029	[7580, 1206]
886	[1242, 1584]	2934	[4319, 2177]	4982	[6146, 3858]	7030	[7581, 5973]
887	[1585, 1586]	2935	[2303, 2133]	4983	[6147, 2678]	7031	[337, 6278]
888	[1587, 1588]	2936	[4320, 4321]	4984	[5771, 5726]	7032	[7582, 123]
889	[1589, 1590]	2937	[4322, 798]	4985	[6148, 2715]	7033	[7583, 3040]

890	[1591, 1592]	2938	[2053, 4323]	4986	[6149, 3086]	7034	[7584, 5969]
891	[1593, 1594]	2939	[162, 144]	4987	[6150, 3818]	7035	[1073, 1376]
892	[1595, 1596]	2940	[4324, 1965]	4988	[6151, 339]	7036	[7585, 2810]
893	[1597, 1598]	2941	[4325, 1727]	4989	[6152, 6153]	7037	[7586, 3102]
894	[1599, 309]	2942	[1672, 4136]	4990	[6154, 1143]	7038	[7587, 1190]
895	[1600, 1601]	2943	[4326, 519]	4991	[6155, 387]	7039	[7588, 3319]
896	[317, 1602]	2944	[1985, 2621]	4992	[5403, 1175]	7040	[7589, 1202]
897	[1603, 1604]	2945	[4327, 2500]	4993	[6156, 1064]	7041	[7590, 1041]
898	[1605, 1606]	2946	[4328, 4329]	4994	[6157, 2973]	7042	[7591, 3314]
899	[1607, 1608]	2947	[4330, 2230]	4995	[5917, 5866]	7043	[5517, 474]
900	[1609, 1610]	2948	[4331, 4332]	4996	[6158, 3066]	7044	[7592, 5574]
901	[1611, 619]	2949	[1791, 4333]	4997	[2962, 1013]	7045	[5695, 2809]
902	[1612, 1613]	2950	[4334, 1838]	4998	[6159, 1102]	7046	[6282, 5340]
903	[1614, 1615]	2951	[4335, 2189]	4999	[2707, 5775]	7047	[7593, 2936]
904	[842, 1616]	2952	[4336, 4337]	5000	[6160, 356]	7048	[3259, 5460]
905	[576, 1617]	2953	[4338, 678]	5001	[3498, 5906]	7049	[7594, 979]
906	[1618, 1619]	2954	[4339, 1996]	5002	[3139, 1306]	7050	[6289, 3933]
907	[1620, 646]	2955	[4340, 807]	5003	[6161, 6117]	7051	[7595, 2709]
908	[1621, 1622]	2956	[194, 2315]	5004	[3608, 6153]	7052	[7596, 2870]
909	[1623, 1624]	2957	[4341, 2319]	5005	[2763, 3663]	7053	[7597, 1287]
910	[1625, 1626]	2958	[4342, 1925]	5006	[6162, 6163]	7054	[7598, 1146]
911	[1627, 659]	2959	[1992, 7]	5007	[5756, 3325]	7055	[1596, 121]
912	[1628, 1629]	2960	[722, 4343]	5008	[6164, 5605]	7056	[7599, 3791]
913	[1630, 1631]	2961	[4344, 4322]	5009	[6165, 2680]	7057	[5729, 3765]
914	[1632, 1633]	2962	[2642, 4251]	5010	[6166, 3625]	7058	[7600, 1203]
915	[1634, 793]	2963	[1766, 4345]	5011	[6087, 5872]	7059	[2959, 3015]
916	[1635, 1636]	2964	[4346, 4347]	5012	[5444, 1276]	7060	[7601, 2736]
917	[601, 1637]	2965	[4348, 2409]	5013	[6167, 1453]	7061	[6058, 3540]
918	[1638, 1639]	2966	[580, 2309]	5014	[5606, 3600]	7062	[2759, 2835]
919	[1640, 1641]	2967	[673, 2607]	5015	[6168, 3933]	7063	[5644, 3655]
920	[1642, 1643]	2968	[4349, 4350]	5016	[379, 6110]	7064	[441, 6023]
921	[1644, 1645]	2969	[4351, 4352]	5017	[6169, 1575]	7065	[7602, 5419]
922	[1646, 1647]	2970	[4353, 4169]	5018	[5438, 1407]	7066	[7603, 3239]
923	[1648, 1649]	2971	[4354, 4118]	5019	[6170, 5616]	7067	[7604, 1354]
924	[1650, 1651]	2972	[4355, 4356]	5020	[6171, 338]	7068	[6153, 5528]
925	[1652, 1613]	2973	[2189, 605]	5021	[3548, 5943]	7069	[7605, 1424]
926	[1653, 1654]	2974	[4357, 4290]	5022	[5359, 2920]	7070	[7606, 1385]
927	[1606, 1655]	2975	[4358, 715]	5023	[88, 6172]	7071	[7607, 6237]
928	[1656, 571]	2976	[4359, 4360]	5024	[6173, 3077]	7072	[7608, 2781]
929	[1657, 1658]	2977	[4361, 4005]	5025	[6174, 3539]	7073	[7609, 1389]
930	[1659, 51]	2978	[4362, 889]	5026	[6175, 3706]	7074	[5426, 5681]
931	[226, 1660]	2979	[4363, 2201]	5027	[6176, 6177]	7075	[3300, 5720]
932	[1661, 1662]	2980	[4364, 2338]	5028	[1561, 3418]	7076	[3902, 3227]
933	[1663, 1664]	2981	[4365, 4366]	5029	[2837, 82]	7077	[1261, 1427]

934	[1665, 1666]	2982	[4367, 4090]	5030	[3117, 3383]	7078	[7610, 6370]
935	[771, 1667]	2983	[4368, 2565]	5031	[6178, 1390]	7079	[7611, 5738]
936	[1668, 1669]	2984	[1867, 4369]	5032	[6179, 1283]	7080	[7612, 1179]
937	[490, 1670]	2985	[4370, 529]	5033	[5544, 5483]	7081	[7613, 3154]
938	[1671, 1672]	2986	[4371, 4277]	5034	[910, 1191]	7082	[2835, 292]
939	[1673, 506]	2987	[1806, 2364]	5035	[6180, 6181]	7083	[3170, 1283]
940	[1674, 1675]	2988	[4372, 4373]	5036	[6182, 971]	7084	[7614, 1033]
941	[1676, 219]	2989	[4374, 4375]	5037	[6183, 6184]	7085	[7615, 3591]
942	[1677, 57]	2990	[4376, 4377]	5038	[6185, 3680]	7086	[1059, 2847]
943	[1678, 1679]	2991	[4378, 2547]	5039	[3547, 972]	7087	[7616, 1063]
944	[1680, 1681]	2992	[4379, 2548]	5040	[6186, 2842]	7088	[7617, 1307]
945	[1682, 680]	2993	[4380, 55]	5041	[3932, 6187]	7089	[1212, 3044]
946	[1683, 1684]	2994	[1691, 4229]	5042	[6188, 277]	7090	[7618, 5483]
947	[1685, 1686]	2995	[2633, 2485]	5043	[5775, 5321]	7091	[5993, 6051]
948	[1687, 639]	2996	[4381, 638]	5044	[6189, 112]	7092	[7619, 1473]
949	[1688, 1689]	2997	[4382, 4253]	5045	[6190, 3280]	7093	[399, 2739]
950	[1690, 1691]	2998	[4383, 761]	5046	[6191, 1494]	7094	[7620, 3914]
951	[1692, 1693]	2999	[4384, 4385]	5047	[6192, 3209]	7095	[7621, 3253]
952	[1694, 1695]	3000	[4386, 2448]	5048	[6193, 3221]	7096	[7622, 2845]
953	[570, 1696]	3001	[4387, 4388]	5049	[3782, 2858]	7097	[7623, 6000]
954	[566, 1697]	3002	[1924, 2635]	5050	[6194, 3276]	7098	[260, 5550]
955	[568, 1698]	3003	[4389, 4390]	5051	[6195, 6196]	7099	[7624, 1444]
956	[1699, 582]	3004	[4391, 2644]	5052	[2910, 6197]	7100	[6224, 1118]
957	[1700, 1701]	3005	[4392, 4393]	5053	[6198, 5390]	7101	[3688, 3220]
958	[1702, 1703]	3006	[2334, 4394]	5054	[2678, 5686]	7102	[7625, 431]
959	[1704, 1705]	3007	[4395, 601]	5055	[6199, 6200]	7103	[7626, 3660]
960	[525, 813]	3008	[4396, 4380]	5056	[6201, 2816]	7104	[7627, 1566]
961	[1706, 1707]	3009	[4397, 4398]	5057	[6202, 954]	7105	[3369, 2669]
962	[1708, 1709]	3010	[4343, 4399]	5058	[6203, 3116]	7106	[2918, 1339]
963	[1710, 1711]	3011	[4400, 4401]	5059	[3143, 3242]	7107	[3185, 5590]
964	[1712, 1713]	3012	[4402, 672]	5060	[6204, 3350]	7108	[5411, 1075]
965	[1714, 1715]	3013	[4403, 2487]	5061	[6205, 3289]	7109	[7628, 2701]
966	[1716, 1717]	3014	[4404, 877]	5062	[5918, 5521]	7110	[7629, 2896]
967	[1718, 1719]	3015	[4405, 2625]	5063	[3277, 6085]	7111	[7630, 2907]
968	[1720, 1721]	3016	[4406, 571]	5064	[2853, 87]	7112	[7631, 3834]
969	[1722, 1723]	3017	[833, 4094]	5065	[6206, 3640]	7113	[3274, 3213]
970	[1724, 1725]	3018	[4407, 1752]	5066	[5564, 386]	7114	[1179, 5515]
971	[1726, 1727]	3019	[1684, 4408]	5067	[5632, 1225]	7115	[7632, 5739]
972	[1655, 844]	3020	[4102, 2552]	5068	[6207, 3909]	7116	[7633, 1121]
973	[1728, 227]	3021	[4409, 4082]	5069	[1344, 5664]	7117	[7634, 1317]
974	[168, 1729]	3022	[1930, 2478]	5070	[3234, 1532]	7118	[5760, 3870]
975	[1730, 1731]	3023	[4410, 583]	5071	[6208, 5357]	7119	[7635, 1321]
976	[1637, 1732]	3024	[2086, 2369]	5072	[6209, 3575]	7120	[7636, 982]
977	[1733, 1734]	3025	[4411, 4164]	5073	[3922, 6210]	7121	[7512, 6212]

978	[1735, 1736]	3026	[4412, 4023]	5074	[6211, 6212]	7122	[7122, 7122]
979	[1737, 1738]	3027	[4075, 2110]	5075	[6213, 5317]	7123	[7637, 5845]
980	[1739, 1740]	3028	[4413, 4127]	5076	[6214, 5747]	7124	[3060, 5630]
981	[1741, 198]	3029	[4414, 2170]	5077	[976, 6143]	7125	[1085, 1330]
982	[1742, 1743]	3030	[4415, 1844]	5078	[78, 1362]	7126	[7638, 5611]
983	[200, 1744]	3031	[619, 4416]	5079	[6215, 1418]	7127	[7639, 1274]
984	[1745, 1746]	3032	[4417, 4418]	5080	[6216, 5516]	7128	[1011, 2948]
985	[1747, 234]	3033	[4419, 4420]	5081	[6217, 3035]	7129	[7640, 102]
986	[789, 1748]	3034	[4421, 4422]	5082	[6218, 2948]	7130	[7641, 953]
987	[795, 1749]	3035	[1865, 4423]	5083	[6219, 1292]	7131	[3572, 358]
988	[1750, 1606]	3036	[846, 1666]	5084	[6220, 5449]	7132	[7642, 3272]
989	[1751, 605]	3037	[4424, 4425]	5085	[3076, 6128]	7133	[2679, 6293]
990	[754, 1752]	3038	[4426, 2042]	5086	[6221, 1199]	7134	[3436, 5506]
991	[1753, 1754]	3039	[4427, 4428]	5087	[6222, 2872]	7135	[7643, 473]
992	[1755, 1756]	3040	[4429, 4430]	5088	[3183, 1452]	7136	[7644, 924]
993	[1757, 1758]	3041	[4431, 4432]	5089	[6223, 6224]	7137	[5669, 3193]
994	[1759, 1760]	3042	[140, 4171]	5090	[6225, 3023]	7138	[2688, 5673]
995	[1761, 1762]	3043	[4433, 4434]	5091	[6226, 6102]	7139	[7645, 110]
996	[1763, 1764]	3044	[4435, 4046]	5092	[2961, 2936]	7140	[7646, 3286]
997	[1765, 1766]	3045	[2174, 4149]	5093	[5726, 6076]	7141	[7647, 1448]
998	[1767, 1768]	3046	[1899, 2652]	5094	[5399, 6227]	7142	[7648, 3146]
999	[1769, 508]	3047	[4436, 4437]	5095	[6228, 5527]	7143	[7649, 72]
1000	[1770, 1771]	3048	[4292, 4037]	5096	[6229, 3022]	7144	[7650, 3122]
1001	[1772, 1773]	3049	[4438, 4439]	5097	[1181, 435]	7145	[7651, 3731]
1002	[230, 1774]	3050	[4440, 2147]	5098	[1289, 3038]	7146	[1588, 3086]
1003	[1775, 1776]	3051	[4441, 4230]	5099	[6230, 3229]	7147	[72, 2812]
1004	[1777, 1778]	3052	[4442, 826]	5100	[6231, 5668]	7148	[3956, 3643]
1005	[508, 1779]	3053	[606, 4443]	5101	[3188, 5790]	7149	[7652, 2873]
1006	[1780, 1781]	3054	[4444, 4445]	5102	[2998, 6232]	7150	[5845, 6181]
1007	[1782, 1783]	3055	[4446, 4447]	5103	[6233, 99]	7151	[302, 3192]
1008	[1784, 1785]	3056	[4448, 761]	5104	[924, 5453]	7152	[7653, 1403]
1009	[1786, 1787]	3057	[4449, 241]	5105	[104, 3624]	7153	[7654, 6087]
1010	[1788, 1789]	3058	[4450, 4451]	5106	[6234, 5681]	7154	[3581, 3329]
1011	[1790, 1791]	3059	[4452, 2239]	5107	[2814, 5707]	7155	[5430, 3003]
1012	[1792, 1793]	3060	[4399, 4252]	5108	[3480, 6235]	7156	[7655, 3517]
1013	[1794, 1795]	3061	[4453, 4454]	5109	[6236, 3861]	7157	[7656, 3238]
1014	[1796, 733]	3062	[4455, 4456]	5110	[454, 6237]	7158	[5470, 5779]
1015	[1797, 735]	3063	[4457, 502]	5111	[6238, 5961]	7159	[7657, 1507]
1016	[670, 1798]	3064	[4458, 4459]	5112	[6239, 2878]	7160	[7658, 439]
1017	[1799, 815]	3065	[4460, 497]	5113	[2977, 5374]	7161	[7659, 3954]
1018	[886, 1800]	3066	[4461, 1827]	5114	[5408, 1599]	7162	[7660, 313]
1019	[1801, 1802]	3067	[4462, 4463]	5115	[3004, 1381]	7163	[7661, 1043]
1020	[1803, 1804]	3068	[1752, 4114]	5116	[3668, 5456]	7164	[3553, 7505]
1021	[1805, 1806]	3069	[4464, 4465]	5117	[900, 999]	7165	[7662, 4730]

1022	[1807, 1808]	3070	[4466, 1800]	5118	[6240, 5303]	7166	[2418, 518]
1023	[1809, 1810]	3071	[4467, 237]	5119	[6241, 2799]	7167	[4237, 6990]
1024	[1811, 1812]	3072	[4468, 4469]	5120	[6242, 1511]	7168	[4761, 2007]
1025	[541, 543]	3073	[4470, 4328]	5121	[6243, 1153]	7169	[7663, 2180]
1026	[1813, 1814]	3074	[4471, 217]	5122	[6244, 3313]	7170	[4787, 7664]
1027	[1815, 1645]	3075	[4472, 4473]	5123	[6245, 3189]	7171	[4818, 2544]
1028	[1816, 1817]	3076	[4474, 2597]	5124	[6246, 5445]	7172	[4769, 1829]
1029	[1818, 1819]	3077	[4475, 4231]	5125	[428, 1255]	7173	[7665, 2315]
1030	[1820, 1821]	3078	[655, 4476]	5126	[6247, 6248]	7174	[715, 5239]
1031	[1822, 1823]	3079	[4477, 4478]	5127	[3514, 6052]	7175	[1839, 151]
1032	[1824, 1825]	3080	[2585, 4479]	5128	[3671, 2738]	7176	[7664, 5223]
1033	[1826, 1827]	3081	[4480, 4481]	5129	[6249, 914]	7177	[7666, 2185]
1034	[1828, 1829]	3082	[4482, 4483]	5130	[5379, 1384]	7178	[7667, 7668]
1035	[1830, 44]	3083	[4484, 4485]	5131	[6250, 1596]	7179	[7669, 243]
1036	[1831, 1832]	3084	[4271, 4486]	5132	[3614, 5973]	7180	[4989, 7670]
1037	[1833, 1802]	3085	[4487, 1967]	5133	[3187, 3601]	7181	[7671, 1964]
1038	[1834, 1835]	3086	[4488, 4489]	5134	[6251, 5329]	7182	[7672, 4420]
1039	[1836, 1837]	3087	[2542, 4490]	5135	[1218, 3497]	7183	[7673, 6976]
1040	[1838, 1839]	3088	[4491, 607]	5136	[3597, 3237]	7184	[160, 4378]
1041	[1840, 1841]	3089	[4492, 1629]	5137	[3561, 1540]	7185	[7674, 4657]
1042	[1842, 158]	3090	[4493, 8]	5138	[1576, 29]	7186	[4658, 2139]
1043	[1843, 1844]	3091	[4494, 2009]	5139	[6252, 957]	7187	[506, 6480]
1044	[1748, 1845]	3092	[4495, 860]	5140	[1584, 6253]	7188	[6778, 2279]
1045	[1846, 1847]	3093	[2080, 1742]	5141	[6254, 986]	7189	[4515, 5008]
1046	[1848, 744]	3094	[4496, 1616]	5142	[6255, 2757]	7190	[7675, 2420]
1047	[1849, 1850]	3095	[2106, 826]	5143	[6256, 2866]	7191	[1936, 561]
1048	[1851, 1852]	3096	[1615, 4497]	5144	[6257, 3447]	7192	[6437, 1826]
1049	[1853, 1854]	3097	[4498, 238]	5145	[6258, 6113]	7193	[7676, 2139]
1050	[1855, 1856]	3098	[4499, 1729]	5146	[6118, 3279]	7194	[4028, 709]
1051	[1857, 1858]	3099	[4500, 50]	5147	[3848, 3816]	7195	[7677, 2299]
1052	[1859, 1631]	3100	[1983, 4501]	5148	[6259, 5368]	7196	[4177, 5118]
1053	[1860, 1861]	3101	[4502, 760]	5149	[5413, 6145]	7197	[7678, 4007]
1054	[1862, 635]	3102	[4503, 1882]	5150	[439, 6260]	7198	[7679, 5014]
1055	[1863, 1843]	3103	[4162, 4109]	5151	[6261, 1434]	7199	[7680, 6804]
1056	[1864, 1865]	3104	[2422, 1663]	5152	[6262, 6263]	7200	[7681, 2504]
1057	[1866, 227]	3105	[4504, 2110]	5153	[6264, 1070]	7201	[7682, 2362]
1058	[1675, 1867]	3106	[4505, 4506]	5154	[6265, 3970]	7202	[4485, 6571]
1059	[1868, 1869]	3107	[4507, 4034]	5155	[6266, 3267]	7203	[7683, 721]
1060	[1870, 1871]	3108	[4508, 2288]	5156	[6267, 1068]	7204	[7684, 4834]
1061	[1872, 1643]	3109	[2097, 4509]	5157	[6268, 6269]	7205	[4422, 2215]
1062	[1873, 1874]	3110	[2099, 2274]	5158	[5581, 1076]	7206	[4175, 6882]
1063	[1875, 134]	3111	[1894, 4510]	5159	[6270, 3254]	7207	[7085, 1943]
1064	[1876, 1877]	3112	[4511, 2302]	5160	[6271, 3841]	7208	[7685, 4174]
1065	[1878, 1879]	3113	[1996, 2250]	5161	[6272, 909]	7209	[2369, 6614]

1066	[1880, 11]	3114	[4512, 4513]	5162	[6273, 3793]	7210	[7686, 5015]
1067	[1881, 1882]	3115	[4514, 4515]	5163	[6269, 3527]	7211	[6678, 4383]
1068	[1883, 608]	3116	[4516, 4517]	5164	[6274, 2817]	7212	[4612, 1682]
1069	[1884, 1885]	3117	[4518, 60]	5165	[6275, 1478]	7213	[6802, 6447]
1070	[1886, 1758]	3118	[4231, 4519]	5166	[6276, 5464]	7214	[4434, 5204]
1071	[1887, 1888]	3119	[4520, 856]	5167	[3243, 372]	7215	[7687, 552]
1072	[1762, 1889]	3120	[4521, 4522]	5168	[6277, 1108]	7216	[7688, 4983]
1073	[1890, 1672]	3121	[4049, 4401]	5169	[5614, 3987]	7217	[2533, 4981]
1074	[1891, 1892]	3122	[4523, 1891]	5170	[6278, 3234]	7218	[7689, 3990]
1075	[1893, 1894]	3123	[4524, 4525]	5171	[5923, 5571]	7219	[1905, 4541]
1076	[1895, 1896]	3124	[4526, 4527]	5172	[6279, 5570]	7220	[6930, 4135]
1077	[1897, 1854]	3125	[4035, 4528]	5173	[6280, 1552]	7221	[7690, 1734]
1078	[840, 1898]	3126	[4529, 4530]	5174	[6281, 6172]	7222	[7691, 7152]
1079	[1798, 1899]	3127	[4531, 4532]	5175	[1579, 6282]	7223	[6839, 6537]
1080	[1900, 1901]	3128	[4533, 2378]	5176	[6283, 3762]	7224	[2135, 758]
1081	[865, 1902]	3129	[4534, 2150]	5177	[5508, 3780]	7225	[1888, 6611]
1082	[1903, 1904]	3130	[2666, 4535]	5178	[6284, 1602]	7226	[776, 6730]
1083	[797, 1905]	3131	[802, 4536]	5179	[6285, 3582]	7227	[7692, 4640]
1084	[1906, 1907]	3132	[2550, 2320]	5180	[6286, 2712]	7228	[7693, 5231]
1085	[1908, 718]	3133	[4537, 4040]	5181	[6287, 2697]	7229	[7694, 2121]
1086	[1909, 1910]	3134	[1988, 4538]	5182	[5492, 3939]	7230	[4717, 6760]
1087	[1911, 610]	3135	[1814, 247]	5183	[1069, 3946]	7231	[2233, 2230]
1088	[1912, 1913]	3136	[4539, 249]	5184	[6288, 6289]	7232	[7695, 2578]
1089	[1914, 1915]	3137	[4540, 245]	5185	[5314, 3494]	7233	[7696, 4510]
1090	[1916, 218]	3138	[4256, 4366]	5186	[6290, 3312]	7234	[7697, 6480]
1091	[1917, 1918]	3139	[2398, 2144]	5187	[5559, 3621]	7235	[7698, 4617]
1092	[1919, 1920]	3140	[4541, 2183]	5188	[3268, 1564]	7236	[4576, 6918]
1093	[1921, 1625]	3141	[2312, 4258]	5189	[6291, 2826]	7237	[7699, 4775]
1094	[613, 1922]	3142	[572, 693]	5190	[6292, 6293]	7238	[7700, 4778]
1095	[1923, 1924]	3143	[4542, 4476]	5191	[5618, 1056]	7239	[7701, 4151]
1096	[1925, 1926]	3144	[4543, 1970]	5192	[6294, 3950]	7240	[7702, 3996]
1097	[1927, 1928]	3145	[4544, 4545]	5193	[6295, 5538]	7241	[6701, 5024]
1098	[1929, 1930]	3146	[190, 2353]	5194	[5567, 3380]	7242	[7703, 2524]
1099	[1931, 1932]	3147	[4546, 4547]	5195	[6296, 2767]	7243	[7704, 527]
1100	[1933, 1934]	3148	[4548, 4549]	5196	[6297, 5643]	7244	[7705, 4042]
1101	[1935, 1936]	3149	[4550, 4551]	5197	[3864, 6298]	7245	[2479, 4821]
1102	[1937, 896]	3150	[4013, 4451]	5198	[6299, 5859]	7246	[7706, 6735]
1103	[1938, 1939]	3151	[4552, 214]	5199	[6300, 289]	7247	[4360, 4380]
1104	[1940, 1941]	3152	[4553, 4554]	5200	[6301, 5404]	7248	[2392, 6495]
1105	[1942, 1943]	3153	[4555, 1700]	5201	[2864, 5441]	7249	[4977, 4873]
1106	[1944, 861]	3154	[4556, 2252]	5202	[1470, 3276]	7250	[7707, 4419]
1107	[1945, 1946]	3155	[617, 4557]	5203	[1539, 5449]	7251	[6495, 4735]
1108	[1947, 1948]	3156	[4558, 2162]	5204	[6302, 2717]	7252	[7708, 2495]
1109	[1949, 1950]	3157	[4559, 4560]	5205	[6303, 1002]	7253	[7709, 5174]

1110	[1951, 1952]	3158	[4561, 4562]	5206	[3242, 5408]	7254	[7710, 600]
1111	[1953, 1954]	3159	[2371, 2508]	5207	[5813, 978]	7255	[2219, 1883]
1112	[1955, 1956]	3160	[4563, 4406]	5208	[6304, 3735]	7256	[7711, 4397]
1113	[1957, 1958]	3161	[4564, 2327]	5209	[6305, 1185]	7257	[2212, 1668]
1114	[1959, 1960]	3162	[4565, 4566]	5210	[6306, 1198]	7258	[7712, 2632]
1115	[1717, 1961]	3163	[4567, 1662]	5211	[6307, 6308]	7259	[5104, 4143]
1116	[825, 1786]	3164	[4310, 2539]	5212	[6309, 450]	7260	[210, 4045]
1117	[1854, 1962]	3165	[4568, 2027]	5213	[1476, 2780]	7261	[7713, 2124]
1118	[1963, 711]	3166	[4569, 1920]	5214	[6310, 989]	7262	[4255, 4843]
1119	[1964, 39]	3167	[4530, 4227]	5215	[2903, 2784]	7263	[7714, 2633]
1120	[1965, 1966]	3168	[42, 525]	5216	[6311, 1397]	7264	[720, 2567]
1121	[1967, 1968]	3169	[4570, 1676]	5217	[6312, 5515]	7265	[7715, 1685]
1122	[1969, 1970]	3170	[4571, 1652]	5218	[3718, 3410]	7266	[4285, 7117]
1123	[1971, 563]	3171	[4572, 678]	5219	[6313, 6314]	7267	[7716, 803]
1124	[1972, 217]	3172	[4573, 840]	5220	[6315, 5517]	7268	[1800, 6519]
1125	[1973, 1974]	3173	[4574, 2604]	5221	[6316, 2993]	7269	[7717, 6800]
1126	[1975, 1976]	3174	[4575, 4576]	5222	[6317, 3802]	7270	[7718, 6383]
1127	[1977, 1978]	3175	[4577, 2375]	5223	[6318, 3295]	7271	[4816, 4334]
1128	[1979, 147]	3176	[4578, 2373]	5224	[6319, 1441]	7272	[4545, 5003]
1129	[1980, 1981]	3177	[4579, 4580]	5225	[6320, 3698]	7273	[7719, 7038]
1130	[1982, 1983]	3178	[4522, 1929]	5226	[6321, 361]	7274	[2286, 4123]
1131	[1984, 1985]	3179	[4581, 4459]	5227	[5807, 3447]	7275	[7720, 5272]
1132	[1986, 1819]	3180	[4582, 1745]	5228	[6322, 284]	7276	[6684, 7067]
1133	[1987, 1988]	3181	[4583, 2518]	5229	[6323, 5309]	7277	[7721, 6890]
1134	[1989, 1990]	3182	[4584, 1874]	5230	[6324, 5638]	7278	[4538, 6581]
1135	[1991, 1992]	3183	[2221, 631]	5231	[6325, 3012]	7279	[7722, 6907]
1136	[738, 1993]	3184	[2336, 2174]	5232	[6326, 1154]	7280	[6448, 2227]
1137	[1861, 1960]	3185	[1802, 494]	5233	[5692, 6327]	7281	[5080, 5087]
1138	[1994, 539]	3186	[4375, 2159]	5234	[1164, 1223]	7282	[7723, 4663]
1139	[1995, 1996]	3187	[4585, 1847]	5235	[1442, 5551]	7283	[7724, 7725]
1140	[1997, 1998]	3188	[4586, 4587]	5236	[6091, 969]	7284	[7067, 2385]
1141	[1774, 1999]	3189	[4588, 4589]	5237	[6328, 3475]	7285	[7726, 714]
1142	[2000, 2001]	3190	[4260, 892]	5238	[5751, 1233]	7286	[7727, 491]
1143	[562, 2002]	3191	[4590, 2007]	5239	[6329, 3090]	7287	[7728, 4691]
1144	[2003, 501]	3192	[4591, 2562]	5240	[1037, 5343]	7288	[2162, 7729]
1145	[2004, 1936]	3193	[4592, 787]	5241	[6330, 427]	7289	[7730, 7092]
1146	[2005, 2006]	3194	[2281, 4593]	5242	[1556, 6331]	7290	[2002, 4495]
1147	[2007, 2008]	3195	[4594, 4252]	5243	[3252, 3307]	7291	[6567, 4544]
1148	[2009, 2010]	3196	[4595, 4596]	5244	[6332, 3017]	7292	[7731, 4593]
1149	[2011, 2012]	3197	[4597, 2135]	5245	[6333, 3956]	7293	[7732, 1989]
1150	[2013, 2014]	3198	[4598, 2081]	5246	[3452, 2720]	7294	[2603, 4315]
1151	[2015, 2016]	3199	[4599, 4600]	5247	[6334, 966]	7295	[7733, 6908]
1152	[2017, 1885]	3200	[4601, 4602]	5248	[6335, 3671]	7296	[4220, 1872]
1153	[2018, 2019]	3201	[1768, 4603]	5249	[6336, 2950]	7297	[7734, 6839]

1154	[2020, 2021]	3202	[4604, 4136]	5250	[6337, 1101]	7298	[6763, 6721]
1155	[2022, 748]	3203	[4605, 621]	5251	[6338, 1570]	7299	[7735, 1803]
1156	[1709, 2023]	3204	[4606, 4607]	5252	[6339, 1592]	7300	[4554, 1803]
1157	[2024, 2025]	3205	[4608, 2346]	5253	[6340, 5372]	7301	[1901, 4993]
1158	[2026, 2027]	3206	[4609, 2543]	5254	[6341, 3723]	7302	[4674, 4904]
1159	[2028, 2029]	3207	[4610, 1812]	5255	[3760, 3745]	7303	[4519, 4285]
1160	[2030, 2031]	3208	[4196, 170]	5256	[1554, 3267]	7304	[7004, 6403]
1161	[2032, 528]	3209	[4611, 4612]	5257	[6342, 1549]	7305	[2535, 1703]
1162	[2033, 1763]	3210	[2561, 4021]	5258	[6343, 1275]	7306	[6543, 1808]
1163	[2034, 2035]	3211	[2131, 1715]	5259	[3600, 3478]	7307	[4616, 4481]
1164	[2036, 742]	3212	[4613, 2547]	5260	[6344, 1503]	7308	[7736, 6425]
1165	[2037, 2038]	3213	[4614, 1889]	5261	[6345, 2853]	7309	[7737, 1757]
1166	[2039, 2023]	3214	[4615, 4267]	5262	[6346, 1349]	7310	[7738, 5106]
1167	[2040, 2041]	3215	[1847, 4616]	5263	[1129, 2832]	7311	[1626, 2296]
1168	[694, 2042]	3216	[4617, 4121]	5264	[2671, 3794]	7312	[7739, 2415]
1169	[1711, 2043]	3217	[4618, 2197]	5265	[6177, 1414]	7313	[7740, 4541]
1170	[1976, 2044]	3218	[2241, 4619]	5266	[6347, 5359]	7314	[4428, 4437]
1171	[2045, 1669]	3219	[4620, 4548]	5267	[917, 975]	7315	[7741, 5032]
1172	[2046, 1738]	3220	[4621, 1992]	5268	[6348, 3548]	7316	[4124, 4029]
1173	[2047, 2048]	3221	[4622, 568]	5269	[6349, 5478]	7317	[4451, 2506]
1174	[2049, 719]	3222	[4623, 750]	5270	[5537, 6350]	7318	[2389, 6580]
1175	[2050, 2051]	3223	[4624, 2473]	5271	[6351, 479]	7319	[7742, 7087]
1176	[2052, 2053]	3224	[4625, 4028]	5272	[6352, 3736]	7320	[7743, 7744]
1177	[2054, 2055]	3225	[4489, 4626]	5273	[1521, 2711]	7321	[2029, 6414]
1178	[2056, 747]	3226	[4627, 4444]	5274	[6353, 1246]	7322	[2066, 7745]
1179	[2057, 249]	3227	[4628, 781]	5275	[6354, 5664]	7323	[7746, 4552]
1180	[1956, 2058]	3228	[4629, 4630]	5276	[6355, 5761]	7324	[7153, 1873]
1181	[1793, 2059]	3229	[4122, 4282]	5277	[5665, 3179]	7325	[6885, 1965]
1182	[2060, 2061]	3230	[4631, 2102]	5278	[6356, 5528]	7326	[2494, 6741]
1183	[2062, 2063]	3231	[4632, 688]	5279	[6357, 3044]	7327	[6826, 2246]
1184	[2064, 606]	3232	[4633, 37]	5280	[5448, 299]	7328	[7081, 1694]
1185	[2065, 2066]	3233	[4634, 4635]	5281	[6358, 5581]	7329	[6659, 6507]
1186	[2067, 2068]	3234	[4636, 4416]	5282	[6359, 1309]	7330	[7747, 6432]
1187	[2069, 2070]	3235	[2511, 660]	5283	[6360, 1567]	7331	[6620, 7003]
1188	[2071, 2072]	3236	[4637, 4638]	5284	[6361, 3434]	7332	[7748, 4379]
1189	[2073, 2074]	3237	[4639, 4364]	5285	[6362, 6115]	7333	[7749, 4030]
1190	[2075, 2076]	3238	[4640, 4064]	5286	[5604, 5828]	7334	[7750, 5090]
1191	[2077, 2078]	3239	[4641, 2383]	5287	[6363, 3140]	7335	[4930, 2236]
1192	[2079, 2080]	3240	[1819, 139]	5288	[6364, 3974]	7336	[2380, 822]
1193	[2081, 2082]	3241	[4642, 4643]	5289	[6365, 2733]	7337	[7751, 4276]
1194	[2083, 2084]	3242	[4644, 1901]	5290	[6366, 341]	7338	[6815, 7021]
1195	[514, 1736]	3243	[640, 2264]	5291	[3144, 5561]	7339	[2344, 6609]
1196	[2085, 2086]	3244	[4321, 4607]	5292	[6367, 984]	7340	[7752, 4383]
1197	[134, 130]	3245	[1608, 4645]	5293	[940, 6196]	7341	[5106, 7085]

1198	[2087, 2088]	3246	[4646, 4647]	5294	[6368, 3150]	7342	[7753, 4319]
1199	[760, 582]	3247	[4648, 2072]	5295	[6369, 1277]	7343	[7754, 5157]
1200	[2089, 2090]	3248	[4649, 4650]	5296	[6104, 6370]	7344	[4063, 6872]
1201	[2091, 2092]	3249	[4651, 4241]	5297	[2546, 772]	7345	[7755, 2171]
1202	[1990, 2024]	3250	[1617, 4414]	5298	[6371, 2641]	7346	[2136, 4715]
1203	[2093, 2094]	3251	[4652, 4653]	5299	[6372, 6373]	7347	[2321, 4668]
1204	[1934, 2095]	3252	[4654, 4500]	5300	[6374, 4675]	7348	[7756, 5248]
1205	[2096, 2097]	3253	[170, 4117]	5301	[4501, 4617]	7349	[5150, 7683]
1206	[2098, 2099]	3254	[4655, 2212]	5302	[6375, 4120]	7350	[1974, 2654]
1207	[2100, 2101]	3255	[4656, 736]	5303	[6376, 2451]	7351	[7757, 4259]
1208	[2102, 2103]	3256	[4657, 4658]	5304	[6377, 2537]	7352	[4749, 7161]
1209	[2104, 1983]	3257	[4659, 4660]	5305	[6378, 4603]	7353	[7758, 1821]
1210	[2105, 2106]	3258	[1667, 4661]	5306	[6379, 4189]	7354	[2461, 629]
1211	[2107, 2108]	3259	[1669, 4255]	5307	[6380, 821]	7355	[588, 6906]
1212	[2109, 799]	3260	[4662, 2349]	5308	[1686, 2322]	7356	[7759, 7670]
1213	[2110, 2011]	3261	[4663, 4664]	5309	[6381, 2559]	7357	[7760, 2500]
1214	[2111, 1947]	3262	[2305, 2490]	5310	[6382, 2372]	7358	[1689, 2657]
1215	[58, 2112]	3263	[4665, 1649]	5311	[6383, 2638]	7359	[7761, 6741]
1216	[2113, 2114]	3264	[4666, 532]	5312	[532, 41]	7360	[4037, 7762]
1217	[2010, 2115]	3265	[4667, 2345]	5313	[2483, 1976]	7361	[7763, 2270]
1218	[1696, 2116]	3266	[4668, 4097]	5314	[6384, 5194]	7362	[7764, 6445]
1219	[2117, 2118]	3267	[1633, 4669]	5315	[611, 1650]	7363	[2124, 4618]
1220	[2119, 141]	3268	[4670, 4671]	5316	[6385, 2492]	7364	[2001, 4941]
1221	[879, 1997]	3269	[4672, 2640]	5317	[6386, 4117]	7365	[7765, 5209]
1222	[2120, 2121]	3270	[4673, 4674]	5318	[1715, 1890]	7366	[1773, 1989]
1223	[2122, 237]	3271	[4675, 4676]	5319	[6387, 4066]	7367	[2497, 2038]
1224	[2123, 2124]	3272	[4677, 2563]	5320	[6388, 2180]	7368	[7766, 2502]
1225	[2125, 1743]	3273	[4678, 2336]	5321	[6389, 6390]	7369	[6406, 6425]
1226	[2126, 2127]	3274	[4679, 2179]	5322	[4580, 6391]	7370	[4262, 5179]
1227	[2128, 1697]	3275	[1743, 4680]	5323	[2084, 1610]	7371	[7767, 2549]
1228	[2129, 1910]	3276	[4681, 631]	5324	[827, 662]	7372	[2331, 6935]
1229	[2130, 2131]	3277	[132, 4682]	5325	[6392, 4479]	7373	[7768, 231]
1230	[2132, 2133]	3278	[4683, 789]	5326	[6393, 4829]	7374	[7769, 6802]
1231	[2134, 2135]	3279	[4684, 769]	5327	[5208, 2410]	7375	[7770, 2339]
1232	[48, 2136]	3280	[4509, 166]	5328	[2277, 5017]	7376	[7771, 2289]
1233	[2137, 2138]	3281	[1877, 4685]	5329	[60, 6394]	7377	[7772, 4075]
1234	[2139, 2140]	3282	[4686, 4687]	5330	[6395, 5190]	7378	[5214, 4087]
1235	[2141, 2142]	3283	[4688, 2257]	5331	[6396, 2342]	7379	[7773, 6677]
1236	[2143, 2144]	3284	[4689, 4690]	5332	[6397, 4721]	7380	[679, 627]
1237	[2145, 173]	3285	[4691, 885]	5333	[6398, 2]	7381	[7774, 6437]
1238	[2146, 2147]	3286	[1651, 226]	5334	[6399, 6400]	7382	[502, 2601]
1239	[2006, 2148]	3287	[4692, 4626]	5335	[6401, 4655]	7383	[7775, 7762]
1240	[2149, 2003]	3288	[1785, 2001]	5336	[6402, 4104]	7384	[4907, 4385]
1241	[2150, 2151]	3289	[4693, 1861]	5337	[5295, 4215]	7385	[2386, 1623]

1242	[2152, 2153]	3290	[2613, 1604]	5338	[6403, 2031]	7386	[726, 7047]
1243	[2154, 2155]	3291	[4105, 212]	5339	[4229, 176]	7387	[7776, 1660]
1244	[2156, 2157]	3292	[4694, 2627]	5340	[6404, 4441]	7388	[2420, 4865]
1245	[2158, 2159]	3293	[4695, 142]	5341	[6405, 172]	7389	[2430, 2619]
1246	[2160, 497]	3294	[4696, 154]	5342	[3991, 6406]	7390	[7777, 4300]
1247	[2161, 2162]	3295	[4697, 2608]	5343	[6407, 801]	7391	[7778, 6525]
1248	[2163, 2164]	3296	[4698, 4699]	5344	[6408, 883]	7392	[7779, 5232]
1249	[2165, 2166]	3297	[4700, 2083]	5345	[6409, 4851]	7393	[7780, 6550]
1250	[2167, 1764]	3298	[4701, 514]	5346	[4905, 4034]	7394	[7781, 4327]
1251	[2168, 2169]	3299	[3993, 4347]	5347	[1926, 6410]	7395	[7782, 4077]
1252	[2170, 2171]	3300	[4702, 4703]	5348	[6411, 4444]	7396	[7783, 6844]
1253	[2172, 2012]	3301	[4704, 611]	5349	[2416, 6412]	7397	[6550, 5196]
1254	[2173, 2174]	3302	[4705, 2395]	5350	[6413, 570]	7398	[228, 4203]
1255	[2175, 1899]	3303	[4706, 523]	5351	[4729, 1860]	7399	[6665, 5288]
1256	[2176, 2177]	3304	[829, 707]	5352	[6414, 2515]	7400	[7021, 6420]
1257	[2178, 2179]	3305	[4201, 2311]	5353	[6415, 41]	7401	[7784, 851]
1258	[2180, 2181]	3306	[4707, 4497]	5354	[6416, 4530]	7402	[7079, 6516]
1259	[2182, 2183]	3307	[4653, 4612]	5355	[6417, 4635]	7403	[7785, 1909]
1260	[2184, 818]	3308	[4708, 4679]	5356	[4671, 4073]	7404	[7786, 7026]
1261	[2185, 2186]	3309	[4709, 4710]	5357	[6418, 6390]	7405	[4109, 6441]
1262	[693, 2187]	3310	[4711, 1948]	5358	[1832, 775]	7406	[7787, 7706]
1263	[2188, 2189]	3311	[4712, 4713]	5359	[2468, 156]	7407	[7788, 4337]
1264	[2190, 2191]	3312	[4714, 3997]	5360	[6419, 4447]	7408	[7789, 5278]
1265	[2192, 2193]	3313	[4047, 1871]	5361	[6420, 4281]	7409	[547, 4494]
1266	[2194, 2195]	3314	[4715, 1931]	5362	[6421, 1919]	7410	[7790, 4399]
1267	[2196, 764]	3315	[4716, 1999]	5363	[52, 6422]	7411	[882, 7791]
1268	[2197, 196]	3316	[1662, 4717]	5364	[6423, 1626]	7412	[7792, 4861]
1269	[242, 2198]	3317	[4718, 2092]	5365	[6424, 4299]	7413	[7087, 2497]
1270	[2199, 791]	3318	[4719, 4720]	5366	[6425, 6426]	7414	[740, 5037]
1271	[2200, 247]	3319	[4721, 4610]	5367	[4726, 586]	7415	[7793, 5153]
1272	[713, 2201]	3320	[150, 4653]	5368	[6427, 580]	7416	[222, 6871]
1273	[2202, 2203]	3321	[4722, 1637]	5369	[1858, 6428]	7417	[7794, 6830]
1274	[2204, 710]	3322	[4723, 4724]	5370	[6429, 699]	7418	[7795, 622]
1275	[2205, 2206]	3323	[4725, 4726]	5371	[4638, 1759]	7419	[7796, 4487]
1276	[2207, 2208]	3324	[4418, 560]	5372	[1898, 1810]	7420	[5196, 4153]
1277	[2209, 2210]	3325	[4727, 663]	5373	[6430, 4750]	7421	[4463, 6648]
1278	[2211, 2212]	3326	[4728, 4398]	5374	[6431, 759]	7422	[1727, 7666]
1279	[1844, 2213]	3327	[2599, 4729]	5375	[6432, 584]	7423	[7797, 4000]
1280	[152, 793]	3328	[2537, 4730]	5376	[6433, 2221]	7424	[6875, 45]
1281	[2214, 1687]	3329	[4731, 551]	5377	[6434, 4506]	7425	[7798, 4124]
1282	[2215, 2216]	3330	[1619, 4732]	5378	[6435, 5145]	7426	[4699, 2596]
1283	[2217, 1653]	3331	[4733, 537]	5379	[4149, 2356]	7427	[6648, 4710]
1284	[2218, 2219]	3332	[4734, 2123]	5380	[6436, 2483]	7428	[7799, 2587]
1285	[2220, 42]	3333	[4645, 4390]	5381	[214, 6437]	7429	[4680, 6691]

1286	[549, 2221]	3334	[4735, 4736]	5382	[4560, 4327]	7430	[7800, 2545]
1287	[2222, 1661]	3335	[4737, 4157]	5383	[6438, 6439]	7431	[7801, 6426]
1288	[2223, 2224]	3336	[4713, 4062]	5384	[6440, 6441]	7432	[7802, 4328]
1289	[2225, 521]	3337	[4738, 4739]	5385	[6442, 1979]	7433	[7803, 4789]
1290	[2226, 2227]	3338	[4740, 4741]	5386	[6390, 4811]	7434	[7804, 5008]
1291	[2228, 2229]	3339	[4742, 4743]	5387	[752, 4173]	7435	[7805, 5295]
1292	[2230, 2231]	3340	[4744, 4745]	5388	[4056, 527]	7436	[2407, 6959]
1293	[2232, 2233]	3341	[4746, 2491]	5389	[4179, 579]	7437	[7806, 5061]
1294	[2234, 2235]	3342	[2378, 4747]	5390	[6443, 1905]	7438	[7161, 2663]
1295	[2236, 2237]	3343	[4748, 4749]	5391	[6444, 1862]	7439	[6855, 5172]
1296	[2238, 2239]	3344	[585, 2499]	5392	[5171, 6445]	7440	[7807, 3999]
1297	[2240, 2241]	3345	[4750, 4751]	5393	[6446, 2148]	7441	[4481, 6604]
1298	[2242, 2243]	3346	[2649, 4752]	5394	[4478, 1653]	7442	[7808, 2222]
1299	[2244, 2245]	3347	[4753, 4705]	5395	[2042, 4471]	7443	[2318, 4650]
1300	[2246, 1640]	3348	[4754, 153]	5396	[6447, 6448]	7444	[7809, 2329]
1301	[2247, 2248]	3349	[4755, 2161]	5397	[5174, 4780]	7445	[4643, 4894]
1302	[2249, 2250]	3350	[4021, 4264]	5398	[2295, 6449]	7446	[7810, 4907]
1303	[2251, 2252]	3351	[4756, 1733]	5399	[6450, 4683]	7447	[7811, 4565]
1304	[2253, 248]	3352	[4757, 1994]	5400	[6451, 4538]	7448	[7812, 7005]
1305	[2254, 151]	3353	[1, 857]	5401	[4164, 710]	7449	[7813, 4505]
1306	[2255, 669]	3354	[4758, 2185]	5402	[6452, 666]	7450	[6850, 1754]
1307	[2256, 2257]	3355	[4759, 2527]	5403	[2245, 2575]	7451	[4607, 6665]
1308	[2258, 2259]	3356	[4760, 4761]	5404	[5015, 2656]	7452	[7814, 712]
1309	[2088, 2260]	3357	[2157, 2083]	5405	[6453, 2241]	7453	[4393, 485]
1310	[2261, 2262]	3358	[4762, 629]	5406	[6454, 4802]	7454	[7815, 664]
1311	[2263, 2264]	3359	[4763, 2168]	5407	[6455, 4467]	7455	[7816, 4902]
1312	[799, 1737]	3360	[4764, 4183]	5408	[6456, 206]	7456	[6528, 5184]
1313	[2265, 1739]	3361	[4765, 160]	5409	[6457, 823]	7457	[792, 2120]
1314	[2266, 2267]	3362	[4766, 2370]	5410	[6458, 6459]	7458	[7817, 2472]
1315	[2268, 2269]	3363	[4767, 4105]	5411	[6460, 4726]	7459	[7818, 2601]
1316	[2270, 2271]	3364	[4768, 4769]	5412	[6461, 2588]	7460	[4589, 7065]
1317	[2272, 1922]	3365	[4770, 1978]	5413	[6462, 2009]	7461	[7819, 2452]
1318	[2273, 2274]	3366	[4771, 831]	5414	[6463, 2317]	7462	[7820, 2199]
1319	[2275, 1991]	3367	[2193, 4679]	5415	[5034, 588]	7463	[7821, 4879]
1320	[2276, 1611]	3368	[4089, 1818]	5416	[6464, 4074]	7464	[591, 4049]
1321	[1874, 2277]	3369	[174, 4515]	5417	[4144, 756]	7465	[7822, 1630]
1322	[2278, 2279]	3370	[4772, 4773]	5418	[5118, 3992]	7466	[7823, 6932]
1323	[2280, 2281]	3371	[4774, 1719]	5419	[6465, 2099]	7467	[7824, 6899]
1324	[2282, 1897]	3372	[4549, 43]	5420	[6466, 55]	7468	[4026, 4936]
1325	[2283, 2284]	3373	[4303, 842]	5421	[2351, 759]	7469	[7825, 4807]
1326	[2285, 2286]	3374	[2101, 4764]	5422	[6467, 2513]	7470	[7826, 505]
1327	[2287, 2288]	3375	[4775, 4776]	5423	[555, 6468]	7471	[5186, 5198]
1328	[2289, 2290]	3376	[4777, 2431]	5424	[6469, 1890]	7472	[7827, 1623]
1329	[2291, 2292]	3377	[4778, 2229]	5425	[6470, 2548]	7473	[7828, 2077]

1330	[2293, 2078]	3378	[4779, 4780]	5426	[1613, 3995]	7474	[2076, 2107]
1331	[2294, 2295]	3379	[4781, 4490]	5427	[6471, 2116]	7475	[2023, 6395]
1332	[2296, 2297]	3380	[224, 778]	5428	[6472, 4246]	7476	[7829, 5089]
1333	[2298, 2261]	3381	[4782, 780]	5429	[6473, 4547]	7477	[7830, 2638]
1334	[2299, 2300]	3382	[4783, 4784]	5430	[4934, 1904]	7478	[7831, 6420]
1335	[2301, 2302]	3383	[4785, 4471]	5431	[6474, 4615]	7479	[4739, 2582]
1336	[615, 2303]	3384	[4786, 4787]	5432	[6475, 6419]	7480	[4046, 5275]
1337	[2304, 2305]	3385	[4788, 4729]	5433	[6476, 6477]	7481	[7832, 4904]
1338	[2306, 879]	3386	[4789, 2519]	5434	[6478, 5047]	7482	[896, 4663]
1339	[2307, 2010]	3387	[2019, 2259]	5435	[6479, 4083]	7483	[1960, 1707]
1340	[2308, 1696]	3388	[4790, 1741]	5436	[6480, 2613]	7484	[7833, 187]
1341	[2309, 2310]	3389	[4791, 133]	5437	[6481, 2101]	7485	[2166, 659]
1342	[2311, 2312]	3390	[4792, 2291]	5438	[6482, 4323]	7486	[4821, 2]
1343	[2313, 1639]	3391	[4793, 1956]	5439	[2191, 4310]	7487	[6391, 7104]
1344	[2314, 762]	3392	[4794, 4572]	5440	[6483, 2607]	7488	[1892, 4263]
1345	[2315, 1611]	3393	[4795, 2530]	5441	[6484, 242]	7489	[7834, 5084]
1346	[2316, 1681]	3394	[2068, 4302]	5442	[6485, 1786]	7490	[515, 4599]
1347	[2317, 2318]	3395	[4796, 1869]	5443	[5108, 4104]	7491	[2518, 7835]
1348	[809, 190]	3396	[530, 4797]	5444	[4126, 5140]	7492	[4826, 4077]
1349	[2319, 856]	3397	[4798, 174]	5445	[176, 732]	7493	[5227, 2156]
1350	[2320, 2321]	3398	[4799, 1939]	5446	[6486, 2222]	7494	[1915, 7152]
1351	[2322, 2323]	3399	[2531, 4800]	5447	[6487, 586]	7495	[4557, 7015]
1352	[2324, 1898]	3400	[4801, 4432]	5448	[6488, 2410]	7496	[7836, 5050]
1353	[2325, 2153]	3401	[4802, 2014]	5449	[6489, 862]	7497	[2153, 6490]
1354	[2326, 2327]	3402	[4803, 4350]	5450	[2118, 4977]	7498	[4602, 4949]
1355	[2328, 146]	3403	[4804, 2206]	5451	[6490, 6455]	7499	[699, 4411]
1356	[642, 185]	3404	[523, 4805]	5452	[6491, 2357]	7500	[7837, 4622]
1357	[885, 1801]	3405	[2127, 723]	5453	[1649, 4683]	7501	[1776, 2390]
1358	[888, 2155]	3406	[4806, 4185]	5454	[6492, 6493]	7502	[7065, 6432]
1359	[2329, 1979]	3407	[2051, 4807]	5455	[6494, 6495]	7503	[4030, 1687]
1360	[2330, 2331]	3408	[4808, 572]	5456	[6496, 2367]	7504	[7838, 6704]
1361	[2332, 677]	3409	[4809, 1981]	5457	[6497, 2357]	7505	[7839, 4929]
1362	[2333, 2334]	3410	[4810, 4811]	5458	[6498, 1879]	7506	[7840, 4956]
1363	[2335, 2336]	3411	[4812, 1934]	5459	[6499, 6500]	7507	[7841, 7683]
1364	[2337, 2338]	3412	[4813, 4814]	5460	[6501, 820]	7508	[7842, 6735]
1365	[2339, 1622]	3413	[4815, 1647]	5461	[4566, 4789]	7509	[7843, 866]
1366	[2340, 1748]	3414	[4041, 4660]	5462	[6502, 6410]	7510	[7844, 4852]
1367	[1645, 1846]	3415	[2044, 4816]	5463	[1918, 4648]	7511	[7845, 7716]
1368	[2341, 2193]	3416	[4817, 4818]	5464	[6503, 4122]	7512	[7846, 4740]
1369	[2342, 2343]	3417	[2471, 4787]	5465	[6504, 4546]	7513	[7847, 7664]
1370	[1810, 2344]	3418	[4819, 4443]	5466	[6505, 4616]	7514	[136, 6819]
1371	[2345, 786]	3419	[539, 4675]	5467	[6506, 503]	7515	[7848, 7835]
1372	[1958, 2346]	3420	[758, 2362]	5468	[6507, 2306]	7516	[7849, 7850]
1373	[2347, 2348]	3421	[4059, 1832]	5469	[6508, 4408]	7517	[4650, 698]

1374	[2349, 1888]	3422	[4513, 544]	5470	[6509, 4536]	7518	[4483, 4576]
1375	[2350, 2351]	3423	[4619, 2248]	5471	[6510, 2256]	7519	[2012, 2443]
1376	[2352, 2353]	3424	[4820, 4821]	5472	[1629, 1657]	7520	[7851, 3992]
1377	[2354, 1742]	3425	[2417, 138]	5473	[823, 2102]	7521	[7852, 4532]
1378	[2355, 2356]	3426	[4822, 4823]	5474	[6511, 4501]	7522	[7853, 6409]
1379	[2357, 1823]	3427	[4596, 2269]	5475	[6512, 2188]	7523	[657, 6453]
1380	[2358, 2359]	3428	[1647, 4211]	5476	[6513, 6514]	7524	[2257, 2062]
1381	[2360, 2361]	3429	[4551, 4824]	5477	[6515, 872]	7525	[7854, 2296]
1382	[2362, 2363]	3430	[4825, 4345]	5478	[6516, 4478]	7526	[4773, 2587]
1383	[2364, 865]	3431	[2584, 4826]	5479	[4241, 569]	7527	[7855, 6516]
1384	[2365, 2152]	3432	[4827, 4312]	5480	[6517, 652]	7528	[7856, 4841]
1385	[2366, 2367]	3433	[4828, 1652]	5481	[6518, 6519]	7529	[7857, 4866]
1386	[2368, 2369]	3434	[4506, 4829]	5482	[6520, 549]	7530	[142, 6541]
1387	[2155, 2370]	3435	[4830, 1998]	5483	[6521, 2043]	7531	[783, 4877]
1388	[1907, 2371]	3436	[4831, 1906]	5484	[6445, 4508]	7532	[5212, 231]
1389	[2372, 1776]	3437	[4832, 1659]	5485	[485, 4234]	7533	[5084, 7081]
1390	[2373, 2374]	3438	[4833, 1726]	5486	[6522, 6523]	7534	[7858, 4513]
1391	[2375, 2376]	3439	[4025, 4834]	5487	[1879, 5006]	7535	[7859, 2488]
1392	[2377, 2378]	3440	[4835, 2371]	5488	[2229, 168]	7536	[7860, 4899]
1393	[2379, 2380]	3441	[4836, 4033]	5489	[2038, 1958]	7537	[7861, 794]
1394	[2381, 205]	3442	[4837, 4082]	5490	[6524, 2577]	7538	[7862, 743]
1395	[2382, 2383]	3443	[4838, 2647]	5491	[6525, 5020]	7539	[7863, 4378]
1396	[2384, 1620]	3444	[2646, 2397]	5492	[6526, 4610]	7540	[7864, 4069]
1397	[2385, 726]	3445	[4839, 4562]	5493	[6527, 6528]	7541	[6786, 6852]
1398	[537, 2386]	3446	[4840, 4281]	5494	[6529, 2295]	7542	[6901, 4042]
1399	[2387, 2388]	3447	[4841, 2332]	5495	[6530, 4153]	7543	[4896, 4406]
1400	[50, 2389]	3448	[4842, 4843]	5496	[6531, 775]	7544	[6906, 2366]
1401	[2390, 888]	3449	[2059, 4713]	5497	[6532, 2070]	7545	[7865, 721]
1402	[2391, 2392]	3450	[4844, 4522]	5498	[4736, 5000]	7546	[1731, 4295]
1403	[2393, 2394]	3451	[4845, 4846]	5499	[6533, 4393]	7547	[7015, 2194]
1404	[2395, 2396]	3452	[4847, 4682]	5500	[6534, 6535]	7548	[7866, 4998]
1405	[2397, 2398]	3453	[666, 738]	5501	[6536, 6537]	7549	[7867, 6763]
1406	[2399, 2386]	3454	[4848, 139]	5502	[6538, 5260]	7550	[7026, 177]
1407	[2400, 2401]	3455	[4849, 2568]	5503	[6539, 6418]	7551	[7868, 6405]
1408	[2402, 2034]	3456	[4850, 4851]	5504	[6540, 563]	7552	[2661, 5068]
1409	[648, 2403]	3457	[4852, 829]	5505	[6541, 1933]	7553	[7869, 4627]
1410	[2404, 2405]	3458	[4853, 2576]	5506	[6542, 4106]	7554	[7870, 1680]
1411	[2406, 2407]	3459	[4854, 4068]	5507	[1783, 6543]	7555	[7871, 2093]
1412	[2408, 2409]	3460	[4855, 4856]	5508	[6544, 557]	7556	[7872, 6929]
1413	[2410, 2411]	3461	[4857, 1804]	5509	[6545, 2197]	7557	[7873, 2444]
1414	[2412, 2376]	3462	[4242, 664]	5510	[6546, 4341]	7558	[2524, 4472]
1415	[2413, 536]	3463	[4858, 4664]	5511	[6547, 2188]	7559	[7874, 4304]
1416	[1856, 2414]	3464	[762, 1852]	5512	[6548, 2594]	7560	[4420, 2458]
1417	[2415, 2416]	3465	[2374, 2556]	5513	[6549, 6550]	7561	[4535, 7758]

1418	[1825, 2417]	3466	[4859, 608]	5514	[6551, 135]	7562	[7875, 5091]
1419	[1821, 2418]	3467	[4860, 2275]	5515	[6552, 1818]	7563	[2338, 705]
1420	[1823, 2419]	3468	[4314, 4861]	5516	[6553, 880]	7564	[4070, 3996]
1421	[1808, 2420]	3469	[4862, 4863]	5517	[2515, 2463]	7565	[7876, 867]
1422	[2421, 2422]	3470	[791, 746]	5518	[6554, 4736]	7566	[7877, 4162]
1423	[2423, 181]	3471	[4864, 670]	5519	[2625, 6388]	7567	[7878, 2432]
1424	[2424, 2425]	3472	[4865, 2243]	5520	[6555, 1929]	7568	[6428, 6830]
1425	[2426, 2427]	3473	[4866, 4867]	5521	[6556, 1768]	7569	[7879, 7729]
1426	[1946, 2428]	3474	[4299, 1928]	5522	[2353, 1805]	7570	[1610, 2329]
1427	[2429, 2430]	3475	[2259, 882]	5523	[6557, 4685]	7571	[7880, 2591]
1428	[2186, 2431]	3476	[4233, 763]	5524	[6558, 4271]	7572	[7881, 4566]
1429	[2432, 2433]	3477	[4868, 4524]	5525	[6559, 1767]	7573	[7882, 4467]
1430	[2434, 1691]	3478	[4869, 4064]	5526	[6560, 2454]	7574	[787, 805]
1431	[2144, 2435]	3479	[4870, 4871]	5527	[6561, 4227]	7575	[4807, 598]
1432	[2436, 2311]	3480	[4872, 7]	5528	[6562, 4826]	7576	[4811, 6885]
1433	[2437, 834]	3481	[4873, 4554]	5529	[6563, 5104]	7577	[7883, 636]
1434	[2438, 2439]	3482	[1756, 672]	5530	[6564, 2433]	7578	[7884, 6414]
1435	[2440, 2441]	3483	[4874, 772]	5531	[4528, 747]	7579	[7071, 4336]
1436	[2442, 2006]	3484	[4875, 548]	5532	[1604, 4291]	7580	[4443, 4533]
1437	[2443, 2444]	3485	[4876, 4877]	5533	[6565, 5212]	7581	[7885, 4159]
1438	[2445, 2446]	3486	[4878, 4724]	5534	[6566, 6567]	7582	[7886, 4107]
1439	[2447, 852]	3487	[4879, 4126]	5535	[6568, 4392]	7583	[7887, 6678]
1440	[2448, 1750]	3488	[2115, 2286]	5536	[6569, 1914]	7584	[7888, 4725]
1441	[2449, 2074]	3489	[4880, 2304]	5537	[4856, 2561]	7585	[4176, 7668]
1442	[2450, 2451]	3490	[4881, 4500]	5538	[196, 668]	7586	[7744, 7127]
1443	[2452, 615]	3491	[4635, 4882]	5539	[6570, 6571]	7587	[4369, 2449]
1444	[2435, 1636]	3492	[4883, 2522]	5540	[6572, 4103]	7588	[7889, 7079]
1445	[1705, 2453]	3493	[2177, 743]	5541	[1954, 2457]	7589	[2566, 2093]
1446	[2454, 2455]	3494	[4884, 4265]	5542	[6573, 4233]	7590	[7890, 4648]
1447	[2456, 2457]	3495	[4525, 4206]	5543	[6574, 5150]	7591	[6410, 5162]
1448	[192, 133]	3496	[4885, 4669]	5544	[4437, 1766]	7592	[7891, 1617]
1449	[2458, 2459]	3497	[4886, 1773]	5545	[6575, 2650]	7593	[2522, 7816]
1450	[32, 2401]	3498	[4887, 2417]	5546	[4118, 735]	7594	[7892, 5279]
1451	[2460, 2461]	3499	[2556, 2134]	5547	[6576, 4600]	7595	[7893, 4557]
1452	[2462, 2463]	3500	[4888, 4200]	5548	[4066, 4531]	7596	[6730, 4646]
1453	[2464, 2465]	3501	[2580, 4587]	5549	[6577, 5027]	7597	[7894, 6998]
1454	[2466, 173]	3502	[204, 2339]	5550	[6578, 1884]	7598	[7895, 5172]
1455	[2467, 2468]	3503	[4889, 566]	5551	[6579, 2503]	7599	[4225, 1994]
1456	[2469, 188]	3504	[4890, 4891]	5552	[6580, 5246]	7600	[7896, 7028]
1457	[2470, 127]	3505	[4892, 2517]	5553	[6581, 2261]	7601	[7159, 4512]
1458	[746, 2471]	3506	[4893, 2318]	5554	[6582, 1641]	7602	[7897, 7898]
1459	[2472, 2473]	3507	[4894, 2088]	5555	[6583, 1689]	7603	[7899, 6507]
1460	[2474, 637]	3508	[4895, 4896]	5556	[4479, 1924]	7604	[5026, 6477]
1461	[2475, 845]	3509	[4897, 2486]	5557	[2405, 642]	7605	[3997, 2529]

1462	[1961, 2476]	3510	[4398, 4898]	5558	[6584, 6585]	7606	[244, 5061]
1463	[2477, 2478]	3511	[4899, 4896]	5559	[6586, 5049]	7607	[7900, 6671]
1464	[1695, 2479]	3512	[4195, 1793]	5560	[6587, 561]	7608	[4871, 4773]
1465	[2480, 2481]	3513	[4100, 4340]	5561	[6588, 4073]	7609	[7901, 4618]
1466	[2482, 2140]	3514	[4900, 1658]	5562	[6589, 4423]	7610	[7902, 4469]
1467	[844, 2483]	3515	[4901, 1640]	5563	[6590, 723]	7611	[836, 1935]
1468	[2484, 2485]	3516	[2138, 2426]	5564	[6591, 5066]	7612	[2250, 6500]
1469	[2486, 2487]	3517	[4902, 2425]	5565	[4093, 4527]	7613	[7903, 1911]
1470	[2488, 132]	3518	[4903, 1977]	5566	[6592, 224]	7614	[7850, 6875]
1471	[2489, 2490]	3519	[14, 830]	5567	[557, 4782]	7615	[2664, 866]
1472	[2491, 2492]	3520	[4904, 751]	5568	[6593, 2301]	7616	[7904, 6770]
1473	[2493, 2494]	3521	[4074, 4905]	5569	[883, 2387]	7617	[7905, 4221]
1474	[2495, 209]	3522	[4906, 4242]	5570	[6594, 5227]	7618	[7906, 2643]
1475	[2496, 2497]	3523	[4283, 4907]	5571	[6595, 650]	7619	[2179, 2495]
1476	[2498, 2499]	3524	[4908, 2104]	5572	[6596, 6597]	7620	[2082, 164]
1477	[2500, 153]	3525	[4909, 4910]	5573	[4969, 536]	7621	[4347, 4655]
1478	[2501, 2297]	3526	[188, 4911]	5574	[2116, 2091]	7622	[7907, 4800]
1479	[2502, 2503]	3527	[4912, 2395]	5575	[869, 4195]	7623	[7668, 6528]
1480	[2504, 1884]	3528	[4913, 4190]	5576	[5288, 6598]	7624	[7908, 4067]
1481	[2505, 2506]	3529	[4914, 2151]	5577	[2140, 4565]	7625	[7909, 2602]
1482	[2507, 2508]	3530	[4600, 2577]	5578	[6599, 4303]	7626	[4251, 7159]
1483	[2509, 2510]	3531	[4915, 240]	5579	[1746, 2464]	7627	[7910, 4561]
1484	[732, 2511]	3532	[4916, 4062]	5580	[2628, 578]	7628	[4664, 5214]
1485	[2512, 2513]	3533	[4917, 4918]	5581	[3995, 1897]	7629	[7911, 4936]
1486	[2514, 2515]	3534	[4919, 2236]	5582	[6600, 4955]	7630	[1771, 5032]
1487	[2516, 2517]	3535	[4741, 4920]	5583	[6601, 507]	7631	[4937, 2468]
1488	[2478, 2518]	3536	[4921, 4917]	5584	[6602, 2002]	7632	[2476, 7833]
1489	[2519, 2150]	3537	[2231, 1791]	5585	[6603, 6604]	7633	[7912, 2443]
1490	[2520, 1657]	3538	[2235, 4922]	5586	[6605, 4045]	7634	[4959, 2545]
1491	[2521, 2067]	3539	[4923, 4333]	5587	[6606, 6607]	7635	[6999, 2470]
1492	[633, 2522]	3540	[4924, 4918]	5588	[6608, 6609]	7636	[7913, 5095]
1493	[2523, 46]	3541	[4925, 4926]	5589	[6610, 6611]	7637	[7914, 5103]
1494	[857, 221]	3542	[4918, 4927]	5590	[6612, 4015]	7638	[627, 6383]
1495	[2499, 2524]	3543	[4926, 702]	5591	[6613, 6614]	7639	[7915, 2205]
1496	[2525, 140]	3544	[4333, 4928]	5592	[6615, 4641]	7640	[7898, 1964]
1497	[2526, 2527]	3545	[4929, 4930]	5593	[6616, 4094]	7641	[7916, 6959]
1498	[2528, 246]	3546	[4931, 1655]	5594	[5052, 889]	7642	[7917, 6902]
1499	[2529, 2055]	3547	[4932, 652]	5595	[6617, 873]	7643	[1749, 6929]
1500	[2530, 2531]	3548	[1845, 1825]	5596	[2428, 1725]	7644	[7918, 5035]
1501	[2532, 2533]	3549	[4933, 4934]	5597	[4385, 2191]	7645	[7919, 6388]
1502	[2534, 2535]	3550	[4935, 4364]	5598	[6618, 4087]	7646	[7920, 1873]
1503	[2536, 2537]	3551	[4936, 4937]	5599	[6619, 6620]	7647	[7921, 2458]
1504	[2538, 1838]	3552	[1734, 4938]	5600	[2370, 1646]	7648	[1679, 4891]
1505	[2539, 1840]	3553	[4927, 2235]	5601	[6621, 6622]	7649	[4991, 6535]

1506	[2540, 632]	3554	[4939, 824]	5602	[6623, 2533]	7650	[4388, 1757]
1507	[2541, 2542]	3555	[4661, 4568]	5603	[6624, 6448]	7651	[2203, 824]
1508	[2543, 2051]	3556	[4248, 4218]	5604	[6625, 604]	7652	[7922, 4135]
1509	[2544, 2164]	3557	[4940, 4941]	5605	[6626, 2059]	7653	[7923, 7833]
1510	[2545, 2546]	3558	[4942, 2427]	5606	[2571, 2331]	7654	[7835, 4765]
1511	[2547, 2018]	3559	[4140, 1778]	5607	[6627, 6377]	7655	[7924, 2390]
1512	[2548, 2275]	3560	[4943, 681]	5608	[4814, 2076]	7656	[34, 2422]
1513	[2549, 2550]	3561	[4944, 2115]	5609	[1658, 6628]	7657	[1981, 7850]
1514	[2551, 2552]	3562	[4945, 2374]	5610	[821, 575]	7658	[1729, 6597]
1515	[2553, 2554]	3563	[2112, 2097]	5611	[2237, 4740]	7659	[7725, 5025]
1516	[2555, 2556]	3564	[4946, 4230]	5612	[6629, 702]	7660	[521, 600]
1517	[2557, 157]	3565	[4947, 2387]	5613	[6630, 4741]	7661	[148, 4956]
1518	[2558, 2559]	3566	[4948, 4949]	5614	[6631, 4926]	7662	[5554, 5543]
1519	[2560, 2561]	3567	[4950, 526]	5615	[6632, 4921]	7663	[7925, 3880]
1520	[2562, 2563]	3568	[4951, 1756]	5616	[4329, 2232]	7664	[7926, 5794]
1521	[2564, 2565]	3569	[2527, 4952]	5617	[212, 233]	7665	[7927, 3095]
1522	[179, 2566]	3570	[4953, 2531]	5618	[6633, 1866]	7666	[7928, 1594]
1523	[2567, 14]	3571	[146, 2283]	5619	[6634, 1967]	7667	[3315, 3846]
1524	[1631, 2446]	3572	[4954, 648]	5620	[6635, 5198]	7668	[7929, 7387]
1525	[2568, 2569]	3573	[4955, 236]	5621	[498, 5103]	7669	[3925, 470]
1526	[2570, 2571]	3574	[4956, 4116]	5622	[6636, 4951]	7670	[7930, 3471]
1527	[2572, 776]	3575	[4957, 2025]	5623	[6637, 5184]	7671	[7931, 262]
1528	[2573, 1726]	3576	[4958, 4959]	5624	[6638, 4486]	7672	[7932, 3051]
1529	[2574, 2575]	3577	[4960, 4191]	5625	[4834, 2591]	7673	[1293, 3831]
1530	[2198, 2576]	3578	[4961, 4473]	5626	[6639, 4962]	7674	[5445, 3611]
1531	[2577, 2578]	3579	[4962, 4422]	5627	[6640, 694]	7675	[7933, 2827]
1532	[2579, 2580]	3580	[4963, 2187]	5628	[6641, 2435]	7676	[1223, 3317]
1533	[2581, 2582]	3581	[4964, 1840]	5629	[6642, 56]	7677	[1002, 2735]
1534	[2583, 2584]	3582	[4965, 2624]	5630	[6643, 4027]	7678	[7934, 3918]
1535	[240, 2585]	3583	[4966, 4056]	5631	[6644, 6645]	7679	[1512, 3089]
1536	[2441, 2057]	3584	[4967, 35]	5632	[6646, 585]	7680	[7935, 428]
1537	[2586, 792]	3585	[4290, 2005]	5633	[831, 2615]	7681	[345, 3077]
1538	[2587, 2562]	3586	[4456, 4915]	5634	[4877, 6532]	7682	[3126, 5325]
1539	[2588, 2589]	3587	[4968, 4969]	5635	[6647, 6648]	7683	[7936, 5834]
1540	[2590, 1784]	3588	[2565, 2472]	5636	[6441, 5047]	7684	[1524, 1064]
1541	[2591, 2592]	3589	[4970, 2044]	5637	[2025, 4523]	7685	[7937, 5597]
1542	[2593, 724]	3590	[4971, 2419]	5638	[6649, 741]	7686	[7387, 5514]
1543	[2594, 2535]	3591	[4972, 2300]	5639	[6650, 6651]	7687	[282, 1024]
1544	[2595, 677]	3592	[4973, 2094]	5640	[4416, 2568]	7688	[5735, 1185]
1545	[2596, 2597]	3593	[2058, 4388]	5641	[6652, 4828]	7689	[7938, 3551]
1546	[2598, 2599]	3594	[1804, 4321]	5642	[6653, 1787]	7690	[5680, 1296]
1547	[2600, 2169]	3595	[4974, 833]	5643	[6654, 1902]	7691	[3707, 2905]
1548	[2601, 2494]	3596	[4067, 4127]	5644	[852, 2486]	7692	[7939, 3027]
1549	[2602, 2603]	3597	[4975, 1740]	5645	[6655, 2082]	7693	[1079, 5813]

1550	[2401, 2604]	3598	[4976, 4977]	5646	[6656, 5075]	7694	[7940, 300]
1551	[2605, 162]	3599	[4978, 795]	5647	[4465, 1745]	7695	[7941, 5532]
1552	[2606, 2103]	3600	[4979, 179]	5648	[2061, 4678]	7696	[5720, 985]
1553	[691, 1633]	3601	[4980, 513]	5649	[6657, 2464]	7697	[998, 444]
1554	[2607, 2608]	3602	[4981, 4200]	5650	[6658, 6659]	7698	[7942, 424]
1555	[2252, 2609]	3603	[4207, 4580]	5651	[756, 6660]	7699	[942, 3195]
1556	[2610, 2095]	3604	[4982, 220]	5652	[4720, 4220]	7700	[1390, 3532]
1557	[2611, 33]	3605	[4983, 491]	5653	[2506, 4673]	7701	[5578, 5715]
1558	[2612, 2613]	3606	[4984, 4264]	5654	[4027, 4633]	7702	[7943, 3871]
1559	[2614, 2532]	3607	[4985, 4986]	5655	[5089, 783]	7703	[5765, 458]
1560	[2615, 2616]	3608	[4987, 4256]	5656	[6661, 1739]	7704	[6014, 1590]
1561	[2617, 779]	3609	[551, 4856]	5657	[6422, 4312]	7705	[7944, 1209]
1562	[2618, 1732]	3610	[4988, 4989]	5658	[5256, 5157]	7706	[7945, 5612]
1563	[2619, 2224]	3611	[4990, 2084]	5659	[6662, 847]	7707	[3900, 3461]
1564	[2620, 2621]	3612	[2248, 1877]	5660	[6663, 1674]	7708	[1184, 3697]
1565	[2622, 1698]	3613	[595, 4991]	5661	[6664, 6665]	7709	[7946, 3103]
1566	[2623, 2364]	3614	[4039, 2066]	5662	[6666, 4311]	7710	[122, 5904]
1567	[2624, 2625]	3615	[181, 4419]	5663	[6667, 1801]	7711	[306, 2990]
1568	[661, 2474]	3616	[4992, 4898]	5664	[6668, 222]	7712	[7947, 2813]
1569	[597, 2345]	3617	[4052, 2602]	5665	[6669, 4445]	7713	[1523, 3348]
1570	[2510, 2626]	3618	[4993, 4235]	5666	[6670, 1892]	7714	[7948, 1505]
1571	[2627, 2628]	3619	[4994, 1900]	5667	[6671, 4239]	7715	[3861, 2798]
1572	[2629, 1962]	3620	[1850, 4379]	5668	[4401, 4761]	7716	[7949, 3300]
1573	[2630, 2631]	3621	[4995, 530]	5669	[2459, 1733]	7717	[7950, 5444]
1574	[2632, 2633]	3622	[4084, 4089]	5670	[4949, 2379]	7718	[7951, 2776]
1575	[2634, 2592]	3623	[1701, 4996]	5671	[6672, 4958]	7719	[5417, 1542]
1576	[2635, 61]	3624	[4997, 4816]	5672	[6673, 3991]	7720	[3108, 1598]
1577	[2636, 2637]	3625	[208, 535]	5673	[6674, 4260]	7721	[7952, 3533]
1578	[2638, 2639]	3626	[4998, 2245]	5674	[4824, 4828]	7722	[7953, 2902]
1579	[2597, 836]	3627	[533, 4484]	5675	[6675, 2465]	7723	[3631, 5554]
1580	[2640, 1619]	3628	[4999, 2476]	5676	[6676, 1872]	7724	[7954, 1129]
1581	[2641, 2642]	3629	[5000, 5001]	5677	[4690, 4596]	7725	[7955, 6278]
1582	[2643, 2106]	3630	[5002, 5003]	5678	[6677, 6678]	7726	[7956, 1316]
1583	[669, 768]	3631	[5004, 763]	5679	[6679, 516]	7727	[7957, 912]
1584	[2151, 2644]	3632	[5005, 5006]	5680	[6680, 4369]	7728	[1306, 321]
1585	[2645, 2646]	3633	[5007, 148]	5681	[6681, 727]	7729	[7958, 3136]
1586	[2647, 2648]	3634	[5008, 2118]	5682	[1664, 2646]	7730	[1592, 1534]
1587	[1829, 2649]	3635	[5009, 4751]	5683	[6682, 4680]	7731	[2680, 1125]
1588	[767, 2542]	3636	[5010, 4822]	5684	[6683, 6684]	7732	[2771, 3228]
1589	[2260, 2650]	3637	[5011, 2479]	5685	[6685, 4024]	7733	[7959, 3537]
1590	[2651, 2652]	3638	[4137, 5012]	5686	[6686, 2649]	7734	[7960, 2880]
1591	[2653, 564]	3639	[5013, 803]	5687	[6687, 637]	7735	[7961, 2926]
1592	[1787, 2016]	3640	[2473, 5014]	5688	[653, 2359]	7736	[5565, 5413]
1593	[2654, 2081]	3641	[2133, 5015]	5689	[6688, 6689]	7737	[3877, 6108]

1594	[2655, 2656]	3642	[5016, 5017]	5690	[6690, 886]	7738	[5659, 3263]
1595	[1962, 2516]	3643	[5018, 591]	5691	[6691, 4069]	7739	[7962, 1574]
1596	[2657, 241]	3644	[2451, 4454]	5692	[6692, 720]	7740	[3568, 1315]
1597	[2658, 2659]	3645	[5019, 5020]	5693	[599, 2219]	7741	[5919, 928]
1598	[2660, 2661]	3646	[2427, 2349]	5694	[6693, 4668]	7742	[1496, 6027]
1599	[2662, 592]	3647	[2169, 4356]	5695	[6694, 6394]	7743	[7963, 345]
1600	[2663, 2664]	3648	[5021, 4291]	5696	[6695, 6660]	7744	[7964, 7432]
1601	[2665, 1700]	3649	[5022, 230]	5697	[6696, 4295]	7745	[7965, 1130]
1602	[604, 2666]	3650	[5023, 4485]	5698	[4851, 4690]	7746	[6314, 3163]
1603	[2667, 2668]	3651	[5024, 4910]	5699	[6697, 4735]	7747	[7966, 344]
1604	[2669, 2670]	3652	[5025, 5026]	5700	[6698, 2470]	7748	[915, 1036]
1605	[254, 2671]	3653	[5027, 192]	5701	[6699, 1997]	7749	[7967, 2946]
1606	[2672, 2673]	3654	[5028, 4211]	5702	[6700, 4305]	7750	[1041, 1299]
1607	[2674, 1593]	3655	[5029, 4035]	5703	[2409, 2509]	7751	[7968, 3673]
1608	[2675, 2676]	3656	[5030, 4412]	5704	[5087, 6701]	7752	[7969, 475]
1609	[2677, 2678]	3657	[5031, 5000]	5705	[2446, 4061]	7753	[5425, 6082]
1610	[1143, 2679]	3658	[5032, 223]	5706	[2063, 2053]	7754	[902, 1311]
1611	[377, 2680]	3659	[4497, 2152]	5707	[6702, 2426]	7755	[310, 6035]
1612	[2673, 2681]	3660	[1943, 4463]	5708	[6703, 1855]	7756	[7970, 388]
1613	[314, 2682]	3661	[5033, 5034]	5709	[2343, 6704]	7757	[7971, 944]
1614	[2683, 2684]	3662	[5035, 4749]	5710	[2095, 4190]	7758	[7972, 5919]
1615	[2685, 2686]	3663	[5036, 562]	5711	[6705, 1907]	7759	[7973, 1391]
1616	[2687, 2688]	3664	[5037, 4349]	5712	[6704, 4192]	7760	[7974, 1144]
1617	[2689, 2690]	3665	[4898, 1900]	5713	[6706, 2406]	7761	[3963, 64]
1618	[2691, 2692]	3666	[5038, 2366]	5714	[5039, 4691]	7762	[7975, 1264]
1619	[2693, 1202]	3667	[2239, 5039]	5715	[6707, 232]	7763	[7976, 3342]
1620	[2694, 1593]	3668	[4861, 869]	5716	[6708, 2277]	7764	[3361, 1177]
1621	[2695, 2696]	3669	[5040, 556]	5717	[6709, 4409]	7765	[6227, 5632]
1622	[397, 2697]	3670	[5041, 498]	5718	[6710, 1654]	7766	[3947, 1344]
1623	[2698, 2699]	3671	[5042, 150]	5719	[6468, 4000]	7767	[3653, 3505]
1624	[2700, 2701]	3672	[5043, 52]	5720	[6711, 691]	7768	[7977, 5557]
1625	[2702, 1086]	3673	[2481, 2334]	5721	[6712, 6395]	7769	[7978, 987]
1626	[2703, 2704]	3674	[2465, 4439]	5722	[6713, 1650]	7770	[5504, 5656]
1627	[2705, 2706]	3675	[5044, 2216]	5723	[6714, 4343]	7771	[7979, 1417]
1628	[1019, 2707]	3676	[2361, 4059]	5724	[6715, 6373]	7772	[2931, 3223]
1629	[2708, 2709]	3677	[5045, 4549]	5725	[535, 4699]	7773	[5675, 1320]
1630	[2710, 2711]	3678	[183, 4418]	5726	[6716, 4313]	7774	[5435, 5683]
1631	[2712, 2713]	3679	[5046, 4464]	5727	[2439, 4270]	7775	[387, 3255]
1632	[1450, 2714]	3680	[4189, 4889]	5728	[6717, 4266]	7776	[6022, 5966]
1633	[1273, 2715]	3681	[5047, 1855]	5729	[6718, 6422]	7777	[2729, 279]
1634	[2716, 2717]	3682	[4181, 4341]	5730	[6719, 860]	7778	[7980, 3684]
1635	[2718, 294]	3683	[5048, 2008]	5731	[6720, 6721]	7779	[7981, 1053]
1636	[1049, 2719]	3684	[2363, 4578]	5732	[2070, 4529]	7780	[7982, 1269]
1637	[2720, 1393]	3685	[4439, 5049]	5733	[6722, 690]	7781	[7983, 6096]

1638	[2721, 2722]	3686	[5050, 5051]	5734	[6723, 5173]	7782	[1440, 5411]
1639	[2723, 323]	3687	[4345, 5052]	5735	[6724, 4752]	7783	[5514, 1267]
1640	[2724, 2725]	3688	[5053, 35]	5736	[4911, 2599]	7784	[262, 84]
1641	[1279, 1440]	3689	[5054, 2529]	5737	[6725, 2609]	7785	[7984, 2752]
1642	[2726, 2727]	3690	[4486, 5055]	5738	[6726, 752]	7786	[5300, 3628]
1643	[2728, 2729]	3691	[5056, 1651]	5739	[773, 862]	7787	[7985, 3168]
1644	[2730, 2731]	3692	[5057, 5058]	5740	[5162, 6727]	7788	[7986, 3535]
1645	[2732, 2733]	3693	[4747, 657]	5741	[4323, 6728]	7789	[7987, 5401]
1646	[2734, 2735]	3694	[5059, 4619]	5742	[6729, 6730]	7790	[7988, 3808]
1647	[2736, 1586]	3695	[5060, 2079]	5743	[6731, 2313]	7791	[7989, 5872]
1648	[2737, 2738]	3696	[5061, 4634]	5744	[6732, 734]	7792	[7990, 1442]
1649	[2739, 2740]	3697	[5062, 2047]	5745	[6733, 871]	7793	[120, 1031]
1650	[2741, 438]	3698	[1754, 4311]	5746	[6734, 6455]	7794	[7991, 2801]
1651	[2740, 2742]	3699	[5063, 4138]	5747	[707, 4360]	7795	[5925, 1152]
1652	[2743, 2744]	3700	[5064, 4232]	5748	[6735, 4373]	7796	[7992, 3860]
1653	[2745, 2746]	3701	[5065, 2550]	5749	[6736, 1686]	7797	[3964, 3050]
1654	[2747, 1425]	3702	[198, 4489]	5750	[6737, 204]	7798	[7993, 5871]
1655	[2748, 2749]	3703	[4206, 2256]	5751	[6738, 4175]	7799	[7994, 124]
1656	[2750, 2751]	3704	[4083, 2554]	5752	[6689, 6409]	7800	[7995, 1044]
1657	[270, 2752]	3705	[1896, 5066]	5753	[4780, 4052]	7801	[7996, 5394]
1658	[2753, 2754]	3706	[5067, 1867]	5754	[5001, 4657]	7802	[6308, 5612]
1659	[2755, 2756]	3707	[5006, 2641]	5755	[6739, 2450]	7803	[7997, 400]
1660	[437, 2757]	3708	[5068, 4322]	5756	[6740, 209]	7804	[3254, 3001]
1661	[1065, 2758]	3709	[4289, 4277]	5757	[1641, 6622]	7805	[7998, 1001]
1662	[443, 2759]	3710	[5069, 4026]	5758	[5239, 4836]	7806	[30, 5564]
1663	[2760, 2761]	3711	[5070, 58]	5759	[2463, 6620]	7807	[7999, 2939]
1664	[2762, 2763]	3712	[5071, 1891]	5760	[4587, 1723]	7808	[8000, 1065]
1665	[2764, 1436]	3713	[5072, 4630]	5761	[1841, 4039]	7809	[3293, 5429]
1666	[2765, 2766]	3714	[5073, 1857]	5762	[6741, 6472]	7810	[1247, 480]
1667	[2767, 1144]	3715	[5074, 5075]	5763	[6742, 4937]	7811	[308, 3469]
1668	[2768, 2769]	3716	[5076, 778]	5764	[6743, 4452]	7812	[8001, 2959]
1669	[2770, 2771]	3717	[5077, 4676]	5765	[6744, 2213]	7813	[8002, 1336]
1670	[2772, 1278]	3718	[5078, 4732]	5766	[6745, 210]	7814	[8003, 1312]
1671	[2773, 2774]	3719	[5079, 2251]	5767	[6746, 822]	7815	[6232, 419]
1672	[2775, 2776]	3720	[1636, 5080]	5768	[6747, 2112]	7816	[8004, 6327]
1673	[2777, 2778]	3721	[5081, 5082]	5769	[6748, 4168]	7817	[2778, 3790]
1674	[2779, 2780]	3722	[5083, 2546]	5770	[6749, 2642]	7818	[2954, 1561]
1675	[2781, 2782]	3723	[4296, 859]	5771	[6750, 32]	7819	[5899, 99]
1676	[2783, 2784]	3724	[2376, 5084]	5772	[6751, 2398]	7820	[8005, 955]
1677	[2785, 117]	3725	[5085, 1961]	5773	[6752, 6491]	7821	[8006, 1017]
1678	[2786, 2787]	3726	[5086, 5087]	5774	[6753, 2265]	7822	[8007, 5918]
1679	[2788, 1508]	3727	[5088, 1759]	5775	[6754, 4102]	7823	[8008, 2694]
1680	[2789, 2790]	3728	[4425, 4015]	5776	[6755, 2063]	7824	[264, 301]
1681	[2791, 1051]	3729	[4669, 5089]	5777	[4745, 1974]	7825	[1385, 1182]

1682	[2792, 2793]	3730	[5090, 1843]	5778	[4843, 4259]	7826	[8009, 3361]
1683	[2794, 2795]	3731	[2055, 4745]	5779	[6756, 593]	7827	[5346, 2700]
1684	[2796, 1472]	3732	[4373, 2114]	5780	[6757, 6758]	7828	[2987, 1007]
1685	[2797, 1097]	3733	[4350, 5091]	5781	[6759, 1624]	7829	[1363, 1230]
1686	[2798, 2799]	3734	[5092, 4212]	5782	[6760, 733]	7830	[8010, 1365]
1687	[2800, 1182]	3735	[5093, 499]	5783	[6449, 4543]	7831	[8011, 5652]
1688	[2801, 2802]	3736	[5094, 1932]	5784	[6761, 4215]	7832	[1569, 1188]
1689	[2803, 411]	3737	[819, 5095]	5785	[6762, 4047]	7833	[8012, 365]
1690	[2804, 2805]	3738	[5096, 680]	5786	[4593, 5160]	7834	[3591, 1216]
1691	[2806, 344]	3739	[1882, 785]	5787	[871, 6763]	7835	[8013, 7263]
1692	[2807, 2808]	3740	[5097, 5055]	5788	[4863, 4802]	7836	[294, 6021]
1693	[2809, 2810]	3741	[5098, 5012]	5789	[6764, 558]	7837	[6248, 1052]
1694	[2811, 2812]	3742	[5099, 5051]	5790	[6765, 4144]	7838	[8014, 255]
1695	[284, 2813]	3743	[5100, 4658]	5791	[6766, 522]	7839	[3533, 1011]
1696	[1055, 2814]	3744	[5101, 4093]	5792	[4068, 1685]	7840	[1090, 5520]
1697	[1047, 2815]	3745	[5102, 501]	5793	[4743, 1731]	7841	[3793, 449]
1698	[1051, 1416]	3746	[5103, 5104]	5794	[6767, 4434]	7842	[8015, 3538]
1699	[2816, 1082]	3747	[5105, 2309]	5795	[1970, 1674]	7843	[8016, 275]
1700	[2817, 2818]	3748	[4377, 5106]	5796	[5194, 2100]	7844	[3353, 1493]
1701	[2819, 1072]	3749	[5107, 5108]	5797	[6768, 4181]	7845	[8017, 5338]
1702	[2820, 2821]	3750	[5109, 4882]	5798	[6769, 4465]	7846	[7505, 6308]
1703	[2822, 2823]	3751	[5110, 1785]	5799	[6770, 6771]	7847	[8018, 3375]
1704	[2824, 258]	3752	[5111, 2664]	5800	[6772, 4905]	7848	[5966, 3590]
1705	[2825, 2826]	3753	[5112, 2080]	5801	[6773, 630]	7849	[1354, 5480]
1706	[2827, 2828]	3754	[5113, 4723]	5802	[6774, 4647]	7850	[8019, 973]
1707	[2829, 2830]	3755	[5114, 893]	5803	[6775, 245]	7851	[8020, 2890]
1708	[1162, 2831]	3756	[1760, 2659]	5804	[6776, 6512]	7852	[2810, 5390]
1709	[2832, 1453]	3757	[5115, 4224]	5805	[6777, 6778]	7853	[8021, 5883]
1710	[2833, 2713]	3758	[5116, 4282]	5806	[2485, 4841]	7854	[1199, 5477]
1711	[2834, 2835]	3759	[5117, 5118]	5807	[6779, 1750]	7855	[8022, 1450]
1712	[2836, 2837]	3760	[5119, 2323]	5808	[6780, 177]	7856	[8023, 3835]
1713	[2838, 2839]	3761	[5120, 4747]	5809	[2, 180]	7857	[8024, 1489]
1714	[2840, 342]	3762	[4171, 57]	5810	[855, 1814]	7858	[8025, 271]
1715	[2841, 2775]	3763	[5121, 4129]	5811	[2227, 1705]	7859	[8026, 261]
1716	[2842, 2843]	3764	[4232, 867]	5812	[6781, 6391]	7860	[8027, 1094]
1717	[2844, 2845]	3765	[5122, 639]	5813	[6782, 4296]	7861	[8028, 5428]
1718	[2846, 2847]	3766	[4297, 5123]	5814	[6783, 6784]	7862	[3958, 106]
1719	[2848, 2849]	3767	[1670, 2406]	5815	[646, 1868]	7863	[2975, 5803]
1720	[1550, 2850]	3768	[5124, 1856]	5816	[6785, 660]	7864	[8029, 1087]
1721	[2851, 1577]	3769	[5125, 4063]	5817	[2616, 4100]	7865	[8030, 1328]
1722	[2761, 338]	3770	[4185, 2394]	5818	[4169, 6786]	7866	[8031, 3629]
1723	[2852, 2853]	3771	[5126, 2372]	5819	[6728, 4375]	7867	[5749, 1461]
1724	[1444, 1274]	3772	[1723, 2077]	5820	[6787, 2512]	7868	[2905, 2918]
1725	[2854, 2855]	3773	[5127, 827]	5821	[4061, 4879]	7869	[8032, 78]

1726	[2856, 2857]	3774	[5128, 5129]	5822	[6788, 4472]	7870	[3813, 2791]
1727	[2858, 2816]	3775	[5130, 4694]	5823	[6789, 2237]	7871	[3263, 5931]
1728	[2859, 2860]	3776	[5131, 1688]	5824	[736, 4775]	7872	[1061, 959]
1729	[327, 2861]	3777	[5132, 2389]	5825	[6790, 1868]	7873	[8033, 3183]
1730	[2862, 22]	3778	[709, 550]	5826	[6791, 4070]	7874	[8034, 3304]
1731	[2863, 2864]	3779	[2503, 4983]	5827	[496, 6659]	7875	[8035, 3898]
1732	[1115, 2865]	3780	[5133, 2474]	5828	[6792, 2198]	7876	[6253, 1205]
1733	[2866, 923]	3781	[5134, 4234]	5829	[6793, 2321]	7877	[2787, 5416]
1734	[2867, 2868]	3782	[4517, 499]	5830	[6794, 1746]	7878	[8036, 2859]
1735	[1552, 2869]	3783	[2346, 647]	5831	[6795, 4528]	7879	[3027, 422]
1736	[2870, 2871]	3784	[5135, 609]	5832	[6796, 4996]	7880	[8037, 2857]
1737	[2872, 1180]	3785	[5058, 1909]	5833	[728, 1850]	7881	[8038, 1139]
1738	[1446, 2837]	3786	[863, 4750]	5834	[6797, 610]	7882	[1349, 459]
1739	[28, 2873]	3787	[4003, 1952]	5835	[6798, 2403]	7883	[409, 281]
1740	[2874, 2875]	3788	[5136, 4495]	5836	[2652, 2168]	7884	[8039, 1509]
1741	[2876, 2877]	3789	[4952, 4546]	5837	[6799, 6645]	7885	[8040, 2705]
1742	[2878, 2879]	3790	[5137, 5039]	5838	[2323, 4524]	7886	[1360, 426]
1743	[2880, 2881]	3791	[4132, 1995]	5839	[6800, 6644]	7887	[8041, 1148]
1744	[1089, 2882]	3792	[5138, 2567]	5840	[2513, 5053]	7888	[8042, 5339]
1745	[2883, 1036]	3793	[5139, 5140]	5841	[6801, 6802]	7889	[8043, 6095]
1746	[2884, 2885]	3794	[5141, 492]	5842	[2274, 1950]	7890	[8044, 3444]
1747	[2886, 1499]	3795	[5142, 5024]	5843	[6803, 4715]	7891	[3385, 1502]
1748	[1430, 2887]	3796	[5143, 2459]	5844	[590, 554]	7892	[3396, 1504]
1749	[1436, 1536]	3797	[785, 4468]	5845	[2559, 838]	7893	[3928, 3355]
1750	[126, 2888]	3798	[5144, 2271]	5846	[2411, 2461]	7894	[8045, 6104]
1751	[2889, 1122]	3799	[4891, 1772]	5847	[545, 4564]	7895	[8046, 917]
1752	[1374, 2890]	3800	[2578, 512]	5848	[4080, 6493]	7896	[8047, 3043]
1753	[2891, 2888]	3801	[5145, 820]	5849	[6804, 4431]	7897	[1414, 1235]
1754	[2892, 1396]	3802	[4986, 4589]	5850	[4730, 4962]	7898	[8048, 79]
1755	[2893, 2894]	3803	[5146, 4568]	5851	[6805, 1980]	7899	[8049, 1445]
1756	[2895, 2896]	3804	[5147, 4797]	5852	[6806, 1991]	7900	[8050, 355]
1757	[2897, 2898]	3805	[2659, 4641]	5853	[6459, 5152]	7901	[8051, 3676]
1758	[2899, 2900]	3806	[5148, 4640]	5854	[6807, 6801]	7902	[8052, 390]
1759	[2901, 2798]	3807	[5149, 1805]	5855	[6808, 5179]	7903	[8053, 1249]
1760	[1452, 331]	3808	[2455, 205]	5856	[1740, 4955]	7904	[6331, 3112]
1761	[2902, 2903]	3809	[2187, 4989]	5857	[6809, 698]	7905	[8054, 2849]
1762	[2904, 2905]	3810	[1660, 5150]	5858	[6810, 2453]	7906	[1153, 3153]
1763	[112, 2906]	3811	[5151, 5152]	5859	[6811, 894]	7907	[1590, 3828]
1764	[2907, 919]	3812	[804, 4224]	5860	[6812, 1664]	7908	[3736, 3867]
1765	[2908, 926]	3813	[4253, 1857]	5861	[4473, 1771]	7909	[3494, 3927]
1766	[2909, 2910]	3814	[238, 5153]	5862	[6813, 136]	7910	[8055, 3109]
1767	[2911, 96]	3815	[5154, 2310]	5863	[6814, 1772]	7911	[8056, 5367]
1768	[381, 1134]	3816	[5155, 713]	5864	[2508, 2588]	7912	[3643, 2769]
1769	[2912, 2913]	3817	[5156, 2290]	5865	[4432, 6815]	7913	[2715, 2820]

1770	[2914, 1221]	3818	[5157, 4120]	5866	[6816, 4137]	7914	[6110, 5925]
1771	[2915, 2916]	3819	[5158, 579]	5867	[6817, 6818]	7915	[5969, 3509]
1772	[2917, 2918]	3820	[5159, 5160]	5868	[6819, 4934]	7916	[8057, 399]
1773	[2919, 1300]	3821	[2035, 592]	5869	[4685, 2415]	7917	[5861, 3633]
1774	[2920, 2921]	3822	[5161, 5162]	5870	[6820, 4645]	7918	[5793, 2976]
1775	[2922, 118]	3823	[5163, 2585]	5871	[6537, 2430]	7919	[6184, 1250]
1776	[2923, 1587]	3824	[4630, 2342]	5872	[6821, 722]	7920	[8058, 2955]
1777	[2924, 1566]	3825	[5164, 2665]	5873	[6822, 1990]	7921	[8059, 3054]
1778	[2925, 2926]	3826	[4510, 620]	5874	[2210, 33]	7922	[8060, 3024]
1779	[2913, 2927]	3827	[5165, 5145]	5875	[6823, 1993]	7923	[5744, 340]
1780	[2928, 2929]	3828	[5166, 4823]	5876	[6824, 5186]	7924	[1377, 5492]
1781	[2930, 2931]	3829	[5167, 4071]	5877	[6825, 4979]	7925	[8061, 2407]
1782	[2932, 2933]	3830	[5168, 4938]	5878	[4151, 6826]	7926	[2021, 6372]
1783	[2934, 2935]	3831	[5169, 4920]	5879	[6827, 1668]	7927	[578, 4743]
1784	[2936, 2937]	3832	[2431, 145]	5880	[6828, 802]	7928	[8062, 2294]
1785	[2938, 2939]	3833	[5170, 2134]	5881	[1725, 4361]	7929	[8063, 4065]
1786	[2940, 2941]	3834	[4687, 5171]	5882	[6829, 5001]	7930	[8064, 7078]
1787	[1487, 2942]	3835	[4423, 2580]	5883	[6830, 1688]	7931	[8065, 687]
1788	[2943, 2944]	3836	[5172, 4289]	5884	[6831, 4340]	7932	[1744, 7898]
1789	[2945, 1236]	3837	[5173, 5174]	5885	[894, 157]	7933	[158, 4615]
1790	[2946, 2947]	3838	[5175, 250]	5886	[6832, 6833]	7934	[711, 2317]
1791	[2948, 2949]	3839	[5176, 4097]	5887	[2094, 4209]	7935	[8066, 7153]
1792	[2950, 2951]	3840	[5177, 2283]	5888	[632, 4377]	7936	[4246, 4160]
1793	[2952, 1052]	3841	[5178, 4262]	5889	[4603, 5027]	7937	[1827, 6595]
1794	[2953, 2954]	3842	[138, 516]	5890	[6834, 4301]	7938	[8067, 4225]
1795	[2900, 2955]	3843	[5179, 5180]	5891	[6835, 40]	7939	[6998, 4806]
1796	[2956, 1183]	3844	[5181, 244]	5892	[6836, 4533]	7940	[5160, 7725]
1797	[2957, 1348]	3845	[5182, 2312]	5893	[6837, 4458]	7941	[7030, 603]
1798	[2958, 2959]	3846	[5183, 4016]	5894	[6838, 2305]	7942	[8068, 1826]
1799	[2960, 2961]	3847	[5184, 1659]	5895	[1852, 6839]	7943	[8069, 4721]
1800	[1244, 1387]	3848	[5185, 4283]	5896	[6840, 6490]	7944	[815, 4852]
1801	[1582, 2962]	3849	[2575, 5186]	5897	[2092, 717]	7945	[4784, 5148]
1802	[1583, 1094]	3850	[5187, 2511]	5898	[5285, 2488]	7946	[8070, 7666]
1803	[2963, 2964]	3851	[2284, 4863]	5899	[6841, 4609]	7947	[8071, 5275]
1804	[2926, 2965]	3852	[2224, 4998]	5900	[2394, 1817]	7948	[1654, 6523]
1805	[2966, 322]	3853	[5188, 533]	5901	[4752, 2090]	7949	[8072, 5053]
1806	[2967, 1553]	3854	[5189, 5190]	5902	[2279, 1878]	7950	[8073, 2411]
1807	[2968, 442]	3855	[5191, 569]	5903	[6842, 2440]	7951	[6920, 7030]
1808	[2969, 2970]	3856	[5192, 4192]	5904	[6843, 1695]	7952	[8074, 7758]
1809	[2971, 310]	3857	[564, 4452]	5905	[1758, 6844]	7953	[6439, 4899]
1810	[2972, 2973]	3858	[1835, 817]	5906	[6845, 4822]	7954	[8075, 6372]
1811	[2974, 2975]	3859	[5193, 1915]	5907	[6846, 6486]	7955	[8076, 6914]
1812	[2976, 2977]	3860	[2108, 5194]	5908	[6847, 4484]	7956	[1978, 636]
1813	[358, 476]	3861	[4476, 4157]	5909	[6523, 1938]	7957	[5180, 1630]

1814	[2978, 478]	3862	[5195, 5196]	5910	[6848, 2146]	7958	[8077, 6837]
1815	[2979, 2980]	3863	[1721, 4739]	5911	[2457, 2079]	7959	[873, 6804]
1816	[2981, 2982]	3864	[5197, 4930]	5912	[638, 4278]	7960	[8078, 6930]
1817	[2983, 2984]	3865	[2208, 2402]	5913	[6849, 6850]	7961	[8079, 4348]
1818	[2985, 274]	3866	[5198, 2375]	5914	[6851, 6852]	7962	[2621, 5090]
1819	[2986, 2987]	3867	[5199, 147]	5915	[6853, 2058]	7963	[8080, 5074]
1820	[2988, 1399]	3868	[621, 2640]	5916	[6854, 6855]	7964	[8081, 6748]
1821	[2989, 2990]	3869	[5200, 2596]	5917	[6856, 4867]	7965	[8082, 31]
1822	[2991, 2992]	3870	[5201, 4237]	5918	[4882, 1713]	7966	[781, 6689]
1823	[108, 2993]	3871	[2269, 4609]	5919	[6857, 4889]	7967	[2554, 6805]
1824	[1177, 1253]	3872	[5202, 2024]	5920	[6858, 2558]	7968	[4266, 4392]
1825	[2887, 2994]	3873	[5203, 4278]	5921	[6859, 599]	7969	[7025, 4053]
1826	[2995, 2996]	3874	[5204, 4790]	5922	[6860, 6595]	7970	[7729, 6397]
1827	[2997, 2998]	3875	[5205, 2519]	5923	[6861, 4222]	7971	[811, 1680]
1828	[2999, 930]	3876	[5206, 1744]	5924	[2359, 595]	7972	[6645, 4276]
1829	[3000, 3001]	3877	[1693, 2647]	5925	[6862, 2018]	7973	[8083, 6549]
1830	[3002, 1575]	3878	[5207, 5208]	5926	[1639, 488]	7974	[8084, 839]
1831	[3003, 3004]	3879	[5209, 2405]	5927	[6863, 4429]	7975	[8085, 2192]
1832	[3005, 3006]	3880	[5210, 1941]	5928	[6864, 2011]	7976	[512, 2558]
1833	[3007, 916]	3881	[5211, 5212]	5929	[6865, 662]	7977	[8086, 575]
1834	[3008, 3009]	3882	[517, 2661]	5930	[6866, 848]	7978	[890, 665]
1835	[3010, 3011]	3883	[5213, 5214]	5931	[6867, 1628]	7979	[8087, 2480]
1836	[3012, 3013]	3884	[5215, 4824]	5932	[6868, 5126]	7980	[8088, 5211]
1837	[3014, 2844]	3885	[5216, 5217]	5933	[6869, 4315]	7981	[510, 7132]
1838	[3015, 3]	3886	[5218, 5219]	5934	[4682, 4784]	7982	[8089, 6786]
1839	[3016, 297]	3887	[5220, 2418]	5935	[4258, 2294]	7983	[8090, 6819]
1840	[3017, 2944]	3888	[5221, 4935]	5936	[6870, 6871]	7984	[1941, 4425]
1841	[3018, 2827]	3889	[2288, 1693]	5937	[6872, 4221]	7985	[8091, 6532]
1842	[3019, 3020]	3890	[5222, 5223]	5938	[4459, 4548]	7986	[2048, 794]
1843	[3021, 3022]	3891	[5224, 4178]	5939	[6873, 4214]	7987	[4366, 4723]
1844	[3023, 3024]	3892	[5225, 2166]	5940	[2425, 6512]	7988	[4155, 4429]
1845	[3025, 3026]	3893	[500, 2594]	5941	[6660, 4979]	7989	[730, 2480]
1846	[2731, 3027]	3894	[5226, 1749]	5942	[6874, 6875]	7990	[8092, 2449]
1847	[2733, 2866]	3895	[4547, 5227]	5943	[6876, 4674]	7991	[8093, 4160]
1848	[3028, 3029]	3896	[5228, 1694]	5944	[6877, 2035]	7992	[8094, 4790]
1849	[1234, 3030]	3897	[5229, 5230]	5945	[4301, 4627]	7993	[1616, 4352]
1850	[325, 3031]	3898	[2147, 4212]	5946	[6878, 4361]	7994	[8095, 5210]
1851	[1125, 3032]	3899	[4239, 4505]	5947	[6879, 2543]	7995	[8096, 4336]
1852	[3033, 3034]	3900	[5231, 2210]	5948	[6880, 5026]	7996	[8097, 7745]
1853	[974, 377]	3901	[4352, 5232]	5949	[6784, 1914]	7997	[2016, 2127]
1854	[3035, 3036]	3902	[5233, 2666]	5950	[6881, 4147]	7998	[6607, 4244]
1855	[3037, 3038]	3903	[5230, 548]	5951	[683, 4080]	7999	[8098, 2402]
1856	[3039, 2739]	3904	[2327, 5208]	5952	[6771, 5072]	8000	[7762, 4103]
1857	[3040, 103]	3905	[5234, 149]	5953	[6882, 4003]	8001	[6535, 5082]

1858	[3041, 1398]	3906	[5235, 1779]	5954	[6883, 2616]	8002	[1779, 4319]
1859	[3042, 1356]	3907	[5236, 830]	5955	[6884, 6885]	8003	[4776, 2265]
1860	[1571, 3043]	3908	[2302, 1925]	5956	[1624, 6845]	8004	[801, 4540]
1861	[3044, 1312]	3909	[5237, 4235]	5957	[6886, 4578]	8005	[8099, 2438]
1862	[3045, 3046]	3910	[5238, 5239]	5958	[6887, 4643]	8006	[8100, 5180]
1863	[3047, 3048]	3911	[5240, 1841]	5959	[6888, 1644]	8007	[6628, 2270]
1864	[3049, 1465]	3912	[5241, 219]	5960	[6889, 4922]	8008	[8101, 2654]
1865	[3050, 3051]	3913	[5242, 4207]	5961	[4928, 4925]	8009	[8102, 4881]
1866	[3052, 442]	3914	[2608, 771]	5962	[5082, 6890]	8010	[4647, 5278]
1867	[3053, 3054]	3915	[5243, 1946]	5963	[6891, 2455]	8011	[8103, 4687]
1868	[3055, 3056]	3916	[5244, 2539]	5964	[4147, 6758]	8012	[4130, 687]
1869	[3057, 2677]	3917	[5245, 5246]	5965	[6892, 6893]	8013	[8104, 4201]
1870	[3058, 1070]	3918	[848, 1679]	5966	[6894, 804]	8014	[8105, 6771]
1871	[3059, 3060]	3919	[5247, 2225]	5967	[6895, 6727]	8015	[8106, 6968]
1872	[3061, 121]	3920	[1922, 4671]	5968	[6896, 665]	8016	[8107, 2564]
1873	[3062, 3063]	3921	[5248, 509]	5969	[4941, 4551]	8017	[5003, 1918]
1874	[2955, 3064]	3922	[5249, 1966]	5970	[2414, 4778]	8018	[8108, 2181]
1875	[3065, 257]	3923	[2517, 4705]	5971	[6897, 2441]	8019	[8109, 6628]
1876	[3066, 2884]	3924	[5250, 4123]	5972	[6614, 1862]	8020	[8110, 4599]
1877	[3067, 3068]	3925	[5251, 876]	5973	[6898, 4179]	8021	[2637, 2452]
1878	[3069, 3070]	3926	[5246, 5126]	5974	[6899, 2104]	8022	[8111, 145]
1879	[1081, 3071]	3927	[5252, 208]	5975	[185, 4013]	8023	[8112, 4673]
1880	[3072, 3073]	3928	[4265, 625]	5976	[5066, 6491]	8024	[8113, 4210]
1881	[3074, 1425]	3929	[4268, 503]	5977	[1666, 5035]	8025	[4823, 4694]
1882	[1303, 2705]	3930	[1812, 1721]	5978	[1928, 774]	8026	[4532, 505]
1883	[3075, 3076]	3931	[850, 5247]	5979	[6900, 6901]	8027	[8114, 2663]
1884	[3077, 3078]	3932	[5253, 1760]	5980	[6902, 4210]	8028	[7047, 5285]
1885	[3079, 3080]	3933	[5254, 4414]	5981	[6903, 4911]	8029	[8115, 4993]
1886	[3081, 1513]	3934	[5255, 5256]	5982	[6904, 4717]	8030	[8116, 2215]
1887	[3082, 1459]	3935	[56, 1977]	5983	[6905, 6906]	8031	[6571, 1767]
1888	[353, 3083]	3936	[5257, 4431]	5984	[6400, 4921]	8032	[2356, 7038]
1889	[3084, 2842]	3937	[5258, 5123]	5985	[4390, 2564]	8033	[2639, 6770]
1890	[3085, 999]	3938	[734, 5129]	5986	[1738, 4456]	8034	[4098, 48]
1891	[3086, 3087]	3939	[5259, 780]	5987	[6907, 6908]	8035	[8117, 4865]
1892	[3088, 3089]	3940	[877, 5260]	5988	[6909, 2107]	8036	[8118, 643]
1893	[1156, 3090]	3941	[5261, 545]	5989	[4116, 6418]	8037	[8119, 1718]
1894	[3091, 1147]	3942	[5262, 39]	5990	[5051, 4133]	8038	[8120, 2619]
1895	[3092, 471]	3943	[5263, 805]	5991	[6910, 4794]	8039	[8121, 598]
1896	[2696, 3093]	3944	[2043, 1676]	5992	[5190, 6439]	8040	[8122, 2100]
1897	[3094, 3095]	3945	[1703, 2454]	5993	[6911, 4078]	8041	[8123, 7791]
1898	[3096, 3097]	3946	[5264, 1930]	5994	[6912, 4433]	8042	[558, 1947]
1899	[3098, 3099]	3947	[5265, 4292]	5995	[4191, 4833]	8043	[6622, 7716]
1900	[3100, 1519]	3948	[5266, 2363]	5996	[6871, 2289]	8044	[8124, 187]
1901	[3101, 3102]	3949	[5267, 36]	5997	[2262, 719]	8045	[1998, 3990]

1902	[3103, 2859]	3950	[834, 4703]	5998	[6913, 2165]	8046	[4114, 2205]
1903	[3104, 2899]	3951	[838, 4638]	5999	[6914, 11]	8047	[8125, 6728]
1904	[3105, 3106]	3952	[5268, 2319]	6000	[4867, 5034]	8048	[2041, 161]
1905	[3107, 3108]	3953	[5269, 555]	6001	[6915, 4805]	8049	[8126, 6913]
1906	[3109, 3110]	3954	[5270, 1845]	6002	[5140, 6677]	8050	[6604, 6419]
1907	[3111, 3112]	3955	[5271, 4268]	6003	[6597, 4464]	8051	[8127, 6691]
1908	[3113, 1228]	3956	[5272, 2571]	6004	[4394, 552]	8052	[5129, 6486]
1909	[3114, 3115]	3957	[5273, 5037]	6005	[6916, 4025]	8053	[492, 1955]
1910	[3116, 3117]	3958	[5274, 2332]	6006	[6917, 5080]	8054	[2383, 2192]
1911	[3118, 3119]	3959	[5275, 2003]	6007	[6918, 2440]	8055	[8128, 5025]
1912	[3120, 3121]	3960	[2271, 2291]	6008	[6919, 6920]	8056	[8129, 584]
1913	[1503, 3122]	3961	[2290, 5230]	6009	[6921, 2005]	8057	[6758, 7078]
1914	[3123, 419]	3962	[5276, 1663]	6010	[6922, 1955]	8058	[8130, 4458]
1915	[3124, 1538]	3963	[5277, 1701]	6011	[6923, 4525]	8059	[8131, 4902]
1916	[3125, 3126]	3964	[5278, 4441]	6012	[6924, 4836]	8060	[6500, 1711]
1917	[3127, 1520]	3965	[2008, 5243]	6013	[6925, 6926]	8061	[8132, 1247]
1918	[3128, 3129]	3966	[1902, 5256]	6014	[6927, 2510]	8062	[1301, 946]
1919	[3130, 970]	3967	[668, 5279]	6015	[6519, 4958]	8063	[5972, 6269]
1920	[3131, 3132]	3968	[5280, 4661]	6016	[6928, 5243]	8064	[8133, 125]
1921	[3133, 2703]	3969	[5281, 2544]	6017	[5014, 5165]	8065	[6020, 3133]
1922	[1134, 3134]	3970	[1778, 875]	6018	[644, 777]	8066	[8134, 3470]
1923	[3135, 3136]	3971	[2183, 2549]	6019	[6929, 6930]	8067	[8135, 1583]
1924	[3137, 123]	3972	[4846, 4818]	6020	[4033, 1717]	8068	[8136, 278]
1925	[3138, 3139]	3973	[697, 4517]	6021	[6931, 4177]	8069	[8137, 1186]
1926	[3140, 3141]	3974	[5282, 4193]	6022	[6932, 1620]	8070	[3870, 438]
1927	[3142, 3143]	3975	[5283, 2380]	6023	[6933, 2057]	8071	[114, 2699]
1928	[1320, 1135]	3976	[5284, 5285]	6024	[2644, 1988]	8072	[8138, 1358]
1929	[370, 3144]	3977	[5286, 2303]	6025	[6934, 207]	8073	[3465, 2690]
1930	[2875, 3145]	3978	[5287, 5288]	6026	[6935, 4935]	8074	[8139, 2742]
1931	[3146, 1448]	3979	[5289, 4349]	6027	[6936, 2626]	8075	[1514, 1360]
1932	[980, 3147]	3980	[5290, 870]	6028	[6721, 4866]	8076	[8140, 2987]
1933	[3148, 3149]	3981	[2072, 1684]	6029	[6937, 4633]	8077	[6293, 1364]
1934	[3150, 3151]	3982	[5291, 4531]	6030	[6938, 4544]	8078	[8141, 2887]
1935	[3152, 3153]	3983	[5292, 4894]	6031	[4732, 183]	8079	[6143, 3119]
1936	[1505, 1040]	3984	[5293, 2373]	6032	[4626, 1789]	8080	[8142, 5912]
1937	[3048, 3154]	3985	[5294, 1933]	6033	[875, 809]	8081	[8143, 3602]
1938	[3155, 3156]	3986	[2090, 5295]	6034	[6939, 4261]	8082	[3389, 65]
1939	[3157, 276]	3987	[5296, 4917]	6035	[6940, 3993]	8083	[3970, 461]
1940	[3158, 2998]	3988	[2142, 5210]	6036	[6941, 6580]	8084	[5365, 3691]
1941	[1327, 3159]	3989	[4536, 1762]	6037	[6942, 2225]	8085	[2857, 3056]
1942	[3160, 3161]	3990	[5297, 5298]	6038	[6943, 518]	8086	[3011, 3604]
1943	[3162, 3163]	3991	[5299, 5300]	6039	[6944, 6935]	8087	[3013, 3796]
1944	[3164, 3165]	3992	[5301, 5302]	6040	[6945, 4519]	8088	[8144, 325]
1945	[2802, 3166]	3993	[5303, 5304]	6041	[6651, 2251]	8089	[3377, 1027]

1946	[3167, 3168]	3994	[1210, 3094]	6042	[6946, 4133]	8090	[8145, 2707]
1947	[3169, 3170]	3995	[2681, 3035]	6043	[1622, 243]	8091	[8146, 3965]
1948	[1361, 3171]	3996	[5305, 2716]	6044	[6947, 647]	8092	[5472, 5716]
1949	[3172, 3173]	3997	[3871, 3319]	6045	[6948, 2569]	8093	[3218, 1067]
1950	[3174, 975]	3998	[3490, 3098]	6046	[6949, 1980]	8094	[8147, 298]
1951	[3175, 1100]	3999	[5306, 5307]	6047	[40, 4725]	8095	[1388, 1327]
1952	[3176, 1389]	4000	[5308, 5309]	6048	[6950, 6760]	8096	[8148, 2937]
1953	[3177, 3178]	4001	[3229, 3963]	6049	[6951, 4470]	8097	[3043, 3906]
1954	[3179, 1401]	4002	[5310, 3176]	6050	[1736, 1648]	8098	[1251, 5482]
1955	[3180, 3181]	4003	[5311, 3839]	6051	[6952, 4394]	8099	[5316, 3753]
1956	[3182, 3183]	4004	[5312, 1429]	6052	[6953, 2397]	8100	[8149, 901]
1957	[3184, 3185]	4005	[1166, 5313]	6053	[4805, 5173]	8101	[3289, 3351]
1958	[3186, 3187]	4006	[3984, 5314]	6054	[1939, 6914]	8102	[1098, 5604]
1959	[2776, 3188]	4007	[5315, 5316]	6055	[4660, 6567]	8103	[8150, 998]
1960	[3189, 3190]	4008	[1297, 3667]	6056	[6954, 2233]	8104	[2973, 3442]
1961	[2843, 1008]	4009	[5317, 2765]	6057	[4996, 5248]	8105	[8151, 2924]
1962	[3191, 3192]	4010	[3159, 409]	6058	[6955, 4925]	8106	[8152, 88]
1963	[3193, 1248]	4011	[5318, 1072]	6059	[6956, 2156]	8107	[268, 364]
1964	[3194, 3195]	4012	[5319, 1438]	6060	[6957, 1799]	8108	[8153, 1419]
1965	[3196, 3197]	4013	[5320, 5321]	6061	[528, 5219]	8109	[987, 3376]
1966	[3198, 3199]	4014	[5322, 3045]	6062	[6958, 5074]	8110	[5761, 5435]
1967	[3200, 1024]	4015	[3249, 3218]	6063	[6959, 6855]	8111	[3818, 897]
1968	[74, 2894]	4016	[5323, 1120]	6064	[4447, 2301]	8112	[8154, 3889]
1969	[3201, 1135]	4017	[5324, 922]	6065	[769, 683]	8113	[8155, 2818]
1970	[3202, 2781]	4018	[3882, 3101]	6066	[6960, 203]	8114	[8156, 1446]
1971	[1367, 1044]	4019	[2869, 1104]	6067	[6373, 6651]	8115	[2873, 3446]
1972	[3203, 3204]	4020	[5325, 5326]	6068	[6961, 4430]	8116	[5532, 3515]
1973	[1175, 3205]	4021	[3879, 5327]	6069	[6962, 6412]	8117	[8157, 18]
1974	[3206, 3207]	4022	[5328, 3330]	6070	[6963, 4844]	8118	[3953, 3466]
1975	[3208, 3209]	4023	[3383, 5329]	6071	[6964, 2246]	8119	[8158, 1372]
1976	[1520, 3210]	4024	[5330, 3223]	6072	[4203, 6926]	8120	[2746, 5354]
1977	[3211, 453]	4025	[5331, 3475]	6073	[2552, 4951]	8121	[8159, 5345]
1978	[3093, 981]	4026	[5332, 3013]	6074	[6965, 5148]	8122	[1544, 1506]
1979	[3212, 3213]	4027	[1477, 75]	6075	[1871, 4348]	8123	[3478, 1273]
1980	[3214, 1529]	4028	[1357, 1018]	6076	[6966, 4764]	8124	[8160, 2725]
1981	[481, 117]	4029	[5333, 5334]	6077	[701, 4986]	8125	[1172, 2683]
1982	[3215, 3216]	4030	[5335, 3308]	6078	[6967, 4503]	8126	[3332, 2964]
1983	[385, 3137]	4031	[5336, 443]	6079	[5017, 6968]	8127	[5871, 5570]
1984	[3217, 3218]	4032	[5337, 2844]	6080	[62, 2448]	8128	[8161, 1404]
1985	[3219, 3220]	4033	[3090, 5338]	6081	[250, 6881]	8129	[8162, 1086]
1986	[3221, 3222]	4034	[1323, 5339]	6082	[6969, 597]	8130	[8163, 94]
1987	[3223, 3224]	4035	[5340, 5341]	6083	[6970, 1741]	8131	[8164, 1119]
1988	[3225, 1591]	4036	[3034, 3454]	6084	[6971, 2379]	8132	[8165, 2615]
1989	[3226, 3227]	4037	[5342, 3299]	6085	[6972, 1858]	8133	[7052, 546]

1990	[3228, 3229]	4038	[3245, 2970]	6086	[560, 6405]	8134	[5012, 6837]
1991	[3230, 3231]	4039	[5343, 3185]	6087	[6973, 2414]	8135	[583, 6902]
1992	[3232, 17]	4040	[5344, 5345]	6088	[2592, 4881]	8136	[8166, 5072]
1993	[3233, 3234]	4041	[3006, 5346]	6089	[6974, 4540]	8137	[7069, 4159]
1994	[3235, 3236]	4042	[5347, 2863]	6090	[6514, 4428]	8138	[8167, 1935]
1995	[3237, 3238]	4043	[3892, 3221]	6091	[4111, 2526]	8139	[8168, 223]
1996	[3239, 3240]	4044	[5348, 3053]	6092	[6975, 4543]	8140	[7028, 6525]
1997	[1257, 2992]	4045	[5349, 5350]	6093	[4527, 749]	8141	[130, 7025]
1998	[3241, 3242]	4046	[5351, 5352]	6094	[6585, 2160]	8142	[6493, 4561]
1999	[447, 3243]	4047	[3261, 1374]	6095	[6976, 6976]	8143	[5095, 4794]
2000	[3222, 1243]	4048	[953, 3567]	6096	[703, 4332]	8144	[6727, 7706]
2001	[2937, 3244]	4049	[5353, 5354]	6097	[6977, 4928]	8145	[8169, 6826]
2002	[971, 3245]	4050	[1492, 1386]	6098	[6978, 703]	8146	[8170, 4029]
2003	[2699, 931]	4051	[5355, 3244]	6099	[4922, 4929]	8147	[8171, 7090]
2004	[3246, 3247]	4052	[5356, 5357]	6100	[4920, 6979]	8148	[7104, 6907]
2005	[3248, 3249]	4053	[5358, 3057]	6101	[6980, 6979]	8149	[8172, 6428]
2006	[3250, 1201]	4054	[3834, 5359]	6102	[6981, 4329]	8150	[4430, 2643]
2007	[3251, 3252]	4055	[5360, 5361]	6103	[4332, 4470]	8151	[8173, 6872]
2008	[20, 3167]	4056	[1313, 979]	6104	[6979, 6400]	8152	[7132, 2029]
2009	[3253, 3254]	4057	[5362, 1282]	6105	[1910, 2299]	8153	[4313, 2313]
2010	[3255, 3256]	4058	[1565, 3577]	6106	[5075, 1644]	8154	[4244, 4503]
2011	[3257, 327]	4059	[1420, 5363]	6107	[6982, 4512]	8155	[8174, 4196]
2012	[3258, 3259]	4060	[5364, 5365]	6108	[6983, 4041]	8156	[8175, 4873]
2013	[3260, 3261]	4061	[5366, 1167]	6109	[6984, 2657]	8157	[8176, 6644]
2014	[3262, 3263]	4062	[3324, 5367]	6110	[6985, 661]	8158	[8177, 2165]
2015	[3264, 3265]	4063	[90, 1522]	6111	[4043, 4844]	8159	[10, 31]
2016	[2719, 3266]	4064	[5368, 3091]	6112	[4337, 2432]	8160	[8178, 161]
2017	[3267, 3268]	4065	[5369, 2958]	6113	[6986, 2516]	8161	[7670, 7005]
2018	[3269, 3270]	4066	[5370, 935]	6114	[6987, 1690]	8162	[7745, 1911]
2019	[1545, 1578]	4067	[5371, 107]	6115	[6988, 2068]	8163	[1948, 5209]
2020	[3271, 309]	4068	[256, 5372]	6116	[6989, 6990]	8164	[8179, 4411]
2021	[1201, 3029]	4069	[5373, 5374]	6117	[6991, 1846]	8165	[2697, 5584]
2022	[413, 3272]	4070	[5375, 5376]	6118	[6992, 4509]	8166	[8180, 3651]
2023	[3273, 3274]	4071	[5377, 3433]	6119	[6993, 4952]	8167	[3678, 3958]
2024	[3275, 380]	4072	[5378, 5379]	6120	[6994, 2509]	8168	[8181, 3709]
2025	[3276, 3277]	4073	[3570, 2732]	6121	[4071, 2146]	8169	[8182, 3770]
2026	[3278, 3106]	4074	[5380, 463]	6122	[2604, 2348]	8170	[8183, 5556]
2027	[3279, 3280]	4075	[5381, 3356]	6123	[6995, 2343]	8171	[3802, 1060]
2028	[3281, 1367]	4076	[3413, 3463]	6124	[6996, 5247]	8172	[3887, 26]
2029	[3282, 3283]	4077	[5382, 3796]	6125	[6997, 849]	8173	[6128, 1556]
2030	[3284, 3285]	4078	[1263, 1543]	6126	[5091, 6998]	8174	[5447, 3716]
2031	[3286, 1062]	4079	[5383, 2934]	6127	[1920, 6999]	8175	[8184, 3368]
2032	[3287, 3288]	4080	[5384, 3894]	6128	[7000, 1968]	8176	[8185, 3210]
2033	[22, 3289]	4081	[5385, 5386]	6129	[5217, 5211]	8177	[8186, 2840]

2034	[3290, 3291]	4082	[2906, 1328]	6130	[7001, 547]	8178	[278, 5917]
2035	[3292, 3293]	4083	[5387, 3678]	6131	[2243, 4304]	8179	[3089, 1486]
2036	[3294, 3295]	4084	[5388, 2985]	6132	[7002, 6882]	8180	[7791, 2632]
2037	[3296, 16]	4085	[5389, 2754]	6133	[7003, 870]	8181	[8187, 7816]
2038	[3297, 3298]	4086	[5390, 5391]	6134	[216, 4138]	8182	[4490, 7069]
2039	[3299, 3300]	4087	[5392, 2806]	6135	[4445, 149]	8183	[6818, 4871]
2040	[3301, 3302]	4088	[5393, 2802]	6136	[4797, 4024]	8184	[6598, 7744]
2041	[989, 316]	4089	[3080, 5394]	6137	[1681, 7004]	8185	[8188, 4646]
2042	[3303, 3304]	4090	[1023, 5395]	6138	[7005, 194]	8186	[2031, 4622]
2043	[2713, 3305]	4091	[5396, 3021]	6139	[7006, 6999]	8187	[3660, 1353]
2044	[3209, 3253]	4092	[5397, 3638]	6140	[7007, 6918]	8188	[8189, 1467]
2045	[3306, 3259]	4093	[5398, 5399]	6141	[7008, 4529]	8189	[7117, 4560]
2046	[3307, 3308]	4094	[962, 355]	6142	[7009, 1883]		
2047	[2847, 289]	4095	[5400, 5401]	6143	[7010, 4915]		

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

27	0	1393	0	2759	1	4125	0	5491	1	6857	1
28	1	1394	1	2760	1	4126	1	5492	1	6858	1
29	1	1395	0	2761	0	4127	0	5493	0	6859	1
30	0	1396	0	2762	1	4128	1	5494	0	6860	0
31	0	1397	1	2763	1	4129	1	5495	0	6861	0
32	1	1398	0	2764	0	4130	0	5496	1	6862	0
33	1	1399	1	2765	1	4131	1	5497	1	6863	1
34	0	1400	0	2766	1	4132	0	5498	0	6864	1
35	1	1401	1	2767	1	4133	1	5499	1	6865	1
36	0	1402	1	2768	0	4134	0	5500	0	6866	0
37	0	1403	0	2769	1	4135	1	5501	1	6867	0
38	1	1404	1	2770	1	4136	0	5502	1	6868	1
39	0	1405	1	2771	0	4137	1	5503	1	6869	0
40	0	1406	1	2772	0	4138	1	5504	1	6870	1
41	0	1407	0	2773	0	4139	1	5505	1	6871	1
42	1	1408	1	2774	0	4140	1	5506	0	6872	0
43	1	1409	1	2775	1	4141	0	5507	1	6873	0
44	0	1410	1	2776	1	4142	1	5508	1	6874	1
45	1	1411	0	2777	1	4143	0	5509	0	6875	0
46	0	1412	0	2778	0	4144	0	5510	0	6876	1
47	0	1413	1	2779	1	4145	0	5511	0	6877	0
48	1	1414	1	2780	0	4146	1	5512	0	6878	0
49	0	1415	0	2781	1	4147	0	5513	1	6879	0
50	0	1416	0	2782	0	4148	1	5514	1	6880	1
51	1	1417	1	2783	1	4149	0	5515	0	6881	0
52	0	1418	1	2784	1	4150	0	5516	1	6882	1
53	0	1419	0	2785	0	4151	0	5517	0	6883	0
54	0	1420	0	2786	1	4152	0	5518	1	6884	0
55	0	1421	0	2787	0	4153	1	5519	1	6885	0
56	1	1422	1	2788	0	4154	1	5520	0	6886	1
57	1	1423	1	2789	1	4155	0	5521	1	6887	0
58	0	1424	0	2790	1	4156	0	5522	0	6888	0
59	1	1425	0	2791	0	4157	0	5523	1	6889	1
60	1	1426	1	2792	0	4158	0	5524	0	6890	0
61	0	1427	1	2793	0	4159	1	5525	0	6891	0
62	0	1428	0	2794	1	4160	0	5526	1	6892	1
63	0	1429	0	2795	1	4161	0	5527	0	6893	0
64	0	1430	0	2796	0	4162	1	5528	1	6894	1
65	1	1431	1	2797	0	4163	0	5529	0	6895	0
66	1	1432	1	2798	0	4164	1	5530	1	6896	0
67	1	1433	1	2799	0	4165	0	5531	0	6897	1
68	0	1434	0	2800	0	4166	1	5532	0	6898	0
69	0	1435	0	2801	1	4167	1	5533	0	6899	1
70	1	1436	1	2802	0	4168	1	5534	1	6900	1

71	1	1437	0	2803	0	4169	1	5535	1	6901	0
72	1	1438	1	2804	1	4170	1	5536	1	6902	0
73	0	1439	1	2805	0	4171	1	5537	1	6903	1
74	1	1440	1	2806	0	4172	0	5538	0	6904	0
75	0	1441	1	2807	0	4173	1	5539	1	6905	1
76	0	1442	0	2808	1	4174	1	5540	1	6906	1
77	1	1443	1	2809	1	4175	0	5541	1	6907	1
78	1	1444	0	2810	1	4176	1	5542	1	6908	1
79	0	1445	0	2811	1	4177	0	5543	1	6909	0
80	0	1446	1	2812	0	4178	0	5544	0	6910	0
81	0	1447	0	2813	1	4179	1	5545	0	6911	1
82	0	1448	1	2814	0	4180	1	5546	1	6912	0
83	0	1449	1	2815	0	4181	1	5547	1	6913	0
84	1	1450	1	2816	0	4182	0	5548	0	6914	1
85	1	1451	0	2817	1	4183	0	5549	1	6915	1
86	1	1452	1	2818	1	4184	0	5550	1	6916	0
87	1	1453	1	2819	0	4185	1	5551	1	6917	1
88	1	1454	0	2820	0	4186	1	5552	0	6918	0
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91	1	1457	0	2823	0	4189	0	5555	0	6921	1
92	1	1458	0	2824	0	4190	1	5556	1	6922	0
93	0	1459	1	2825	0	4191	0	5557	0	6923	1
94	0	1460	1	2826	1	4192	0	5558	1	6924	1
95	0	1461	0	2827	0	4193	0	5559	1	6925	1
96	0	1462	0	2828	1	4194	1	5560	1	6926	1
97	1	1463	1	2829	0	4195	0	5561	0	6927	1
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102	0	1468	0	2834	1	4200	0	5566	0	6932	1
103	1	1469	1	2835	1	4201	0	5567	0	6933	1
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113	1	1479	0	2845	1	4211	0	5577	1	6943	0
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115	1	1481	0	2847	0	4213	0	5579	1	6945	1
116	1	1482	0	2848	1	4214	0	5580	0	6946	0
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132	1	1498	0	2864	0	4230	1	5596	1	6962	0
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136	0	1502	0	2868	1	4234	1	5600	0	6966	1
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139	0	1505	0	2871	0	4237	0	5603	1	6969	1
140	0	1506	0	2872	0	4238	1	5604	1	6970	0
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143	1	1509	0	2875	0	4241	1	5607	1	6973	1
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167	0	1533	1	2899	0	4265	1	5631	1	6997	0
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169	1	1535	1	2901	0	4267	1	5633	0	6999	0
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171	1	1537	0	2903	1	4269	1	5635	1	7001	0
172	1	1538	1	2904	1	4270	0	5636	0	7002	1
173	1	1539	0	2905	1	4271	1	5637	1	7003	1
174	0	1540	1	2906	0	4272	0	5638	1	7004	1
175	1	1541	0	2907	0	4273	0	5639	1	7005	0
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177	1	1543	1	2909	0	4275	1	5641	0	7007	1
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180	0	1546	0	2912	0	4278	0	5644	1	7010	0
181	0	1547	0	2913	0	4279	1	5645	1	7011	0
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183	1	1549	0	2915	0	4281	0	5647	0	7013	1
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186	0	1552	1	2918	1	4284	0	5650	0	7016	1
187	0	1553	0	2919	1	4285	1	5651	1	7017	0
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230	0	1596	0	2962	1	4328	0	5694	1	7060	0
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233	1	1599	0	2965	1	4331	1	5697	0	7063	1
234	1	1600	1	2966	1	4332	0	5698	0	7064	0
235	1	1601	0	2967	0	4333	0	5699	0	7065	1
236	0	1602	0	2968	0	4334	1	5700	1	7066	0
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251	0	1617	0	2983	0	4349	0	5715	1	7081	1
252	1	1618	0	2984	0	4350	0	5716	0	7082	1
253	1	1619	0	2985	0	4351	0	5717	0	7083	0
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256	1	1622	1	2988	0	4354	1	5720	1	7086	0
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265	1	1631	0	2997	1	4363	1	5729	1	7095	0
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268	0	1634	1	3000	1	4366	1	5732	0	7098	1
269	0	1635	1	3001	1	4367	1	5733	1	7099	1
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286	0	1652	1	3018	1	4384	1	5750	1	7116	0
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358	0	1724	0	3090	1	4456	1	5822	1	7188	1
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360	1	1726	1	3092	1	4458	0	5824	1	7190	1
361	1	1727	1	3093	0	4459	0	5825	0	7191	0
362	0	1728	1	3094	1	4460	0	5826	0	7192	0
363	0	1729	0	3095	1	4461	0	5827	1	7193	1
364	1	1730	1	3096	0	4462	0	5828	0	7194	0
365	0	1731	1	3097	1	4463	0	5829	1	7195	0
366	1	1732	0	3098	1	4464	1	5830	0	7196	0
367	0	1733	0	3099	1	4465	0	5831	0	7197	1
368	0	1734	1	3100	0	4466	1	5832	1	7198	1
369	0	1735	1	3101	1	4467	0	5833	0	7199	1
370	1	1736	1	3102	1	4468	0	5834	1	7200	0
371	0	1737	0	3103	1	4469	0	5835	0	7201	1
372	1	1738	1	3104	0	4470	1	5836	0	7202	0
373	1	1739	1	3105	1	4471	0	5837	0	7203	1
374	1	1740	0	3106	1	4472	1	5838	0	7204	0
375	1	1741	1	3107	1	4473	1	5839	0	7205	1
376	0	1742	1	3108	0	4474	1	5840	0	7206	0
377	1	1743	0	3109	1	4475	0	5841	0	7207	1
378	1	1744	0	3110	1	4476	0	5842	1	7208	1

379	1	1745	1	3111	0	4477	0	5843	1	7209	0
380	0	1746	1	3112	0	4478	1	5844	1	7210	1
381	0	1747	0	3113	1	4479	1	5845	1	7211	0
382	0	1748	0	3114	0	4480	1	5846	1	7212	0
383	0	1749	1	3115	1	4481	0	5847	0	7213	1
384	0	1750	0	3116	1	4482	0	5848	0	7214	0
385	0	1751	0	3117	0	4483	1	5849	0	7215	0
386	1	1752	1	3118	0	4484	0	5850	0	7216	0
387	0	1753	0	3119	1	4485	0	5851	1	7217	0
388	0	1754	0	3120	0	4486	1	5852	1	7218	0
389	0	1755	1	3121	0	4487	1	5853	1	7219	1
390	0	1756	0	3122	0	4488	1	5854	0	7220	0
391	0	1757	0	3123	0	4489	0	5855	0	7221	1
392	1	1758	0	3124	0	4490	1	5856	0	7222	1
393	0	1759	0	3125	1	4491	1	5857	0	7223	0
394	0	1760	1	3126	1	4492	0	5858	1	7224	0
395	1	1761	1	3127	0	4493	1	5859	1	7225	1
396	0	1762	1	3128	0	4494	0	5860	0	7226	1
397	1	1763	0	3129	0	4495	1	5861	1	7227	1
398	1	1764	0	3130	0	4496	1	5862	0	7228	1
399	0	1765	1	3131	1	4497	0	5863	1	7229	0
400	1	1766	0	3132	0	4498	1	5864	0	7230	1
401	0	1767	0	3133	0	4499	1	5865	0	7231	1
402	0	1768	0	3134	0	4500	1	5866	1	7232	1
403	1	1769	0	3135	0	4501	0	5867	0	7233	1
404	1	1770	0	3136	0	4502	1	5868	0	7234	0
405	0	1771	0	3137	0	4503	1	5869	1	7235	1
406	0	1772	1	3138	1	4504	1	5870	1	7236	0
407	1	1773	1	3139	1	4505	1	5871	0	7237	0
408	1	1774	1	3140	0	4506	0	5872	1	7238	0
409	1	1775	0	3141	1	4507	1	5873	0	7239	1
410	0	1776	0	3142	1	4508	0	5874	0	7240	0
411	1	1777	0	3143	1	4509	1	5875	1	7241	1
412	1	1778	0	3144	1	4510	1	5876	0	7242	0
413	1	1779	0	3145	0	4511	0	5877	0	7243	1
414	0	1780	0	3146	0	4512	0	5878	0	7244	1
415	0	1781	1	3147	0	4513	1	5879	1	7245	0
416	0	1782	0	3148	0	4514	1	5880	0	7246	0
417	1	1783	1	3149	1	4515	0	5881	1	7247	0
418	0	1784	0	3150	0	4516	1	5882	0	7248	1
419	0	1785	1	3151	1	4517	0	5883	0	7249	1
420	1	1786	1	3152	0	4518	0	5884	0	7250	1
421	0	1787	1	3153	1	4519	1	5885	0	7251	1
422	1	1788	1	3154	0	4520	1	5886	1	7252	1

423	1	1789	0	3155	0	4521	0	5887	0	7253	0
424	0	1790	0	3156	1	4522	1	5888	1	7254	1
425	0	1791	1	3157	0	4523	0	5889	0	7255	0
426	1	1792	1	3158	1	4524	0	5890	1	7256	0
427	1	1793	0	3159	1	4525	0	5891	1	7257	0
428	0	1794	1	3160	0	4526	0	5892	1	7258	0
429	1	1795	0	3161	0	4527	1	5893	1	7259	0
430	0	1796	0	3162	1	4528	0	5894	1	7260	1
431	1	1797	0	3163	0	4529	1	5895	1	7261	1
432	1	1798	1	3164	1	4530	1	5896	0	7262	1
433	0	1799	1	3165	0	4531	0	5897	1	7263	0
434	0	1800	0	3166	1	4532	0	5898	1	7264	1
435	0	1801	1	3167	1	4533	0	5899	1	7265	0
436	0	1802	0	3168	1	4534	0	5900	1	7266	1
437	0	1803	0	3169	1	4535	0	5901	1	7267	1
438	0	1804	1	3170	0	4536	0	5902	1	7268	0
439	1	1805	1	3171	0	4537	0	5903	1	7269	0
440	1	1806	0	3172	0	4538	0	5904	0	7270	1
441	0	1807	0	3173	1	4539	0	5905	0	7271	1
442	0	1808	0	3174	0	4540	0	5906	0	7272	0
443	1	1809	1	3175	0	4541	0	5907	0	7273	0
444	1	1810	1	3176	0	4542	1	5908	0	7274	0
445	1	1811	1	3177	0	4543	1	5909	0	7275	0
446	0	1812	1	3178	1	4544	0	5910	1	7276	1
447	1	1813	0	3179	1	4545	0	5911	1	7277	1
448	0	1814	0	3180	1	4546	0	5912	1	7278	0
449	0	1815	1	3181	0	4547	1	5913	0	7279	1
450	0	1816	0	3182	1	4548	0	5914	0	7280	1
451	1	1817	0	3183	0	4549	0	5915	0	7281	0
452	1	1818	0	3184	1	4550	1	5916	1	7282	1
453	1	1819	1	3185	0	4551	0	5917	0	7283	1
454	1	1820	0	3186	1	4552	1	5918	0	7284	1
455	1	1821	0	3187	0	4553	0	5919	1	7285	0
456	1	1822	0	3188	0	4554	1	5920	1	7286	0
457	0	1823	0	3189	1	4555	1	5921	1	7287	0
458	1	1824	0	3190	1	4556	0	5922	0	7288	1
459	0	1825	1	3191	1	4557	1	5923	0	7289	1
460	1	1826	1	3192	0	4558	1	5924	1	7290	1
461	1	1827	1	3193	0	4559	0	5925	0	7291	0
462	0	1828	1	3194	0	4560	0	5926	0	7292	1
463	1	1829	1	3195	0	4561	1	5927	1	7293	0
464	1	1830	0	3196	0	4562	1	5928	1	7294	1
465	1	1831	1	3197	1	4563	0	5929	1	7295	0
466	1	1832	0	3198	1	4564	0	5930	0	7296	1

467	1	1833	0	3199	0	4565	1	5931	0	7297	0
468	1	1834	1	3200	0	4566	1	5932	1	7298	1
469	0	1835	1	3201	0	4567	0	5933	0	7299	0
470	1	1836	1	3202	0	4568	0	5934	1	7300	1
471	1	1837	0	3203	1	4569	1	5935	1	7301	1
472	1	1838	1	3204	1	4570	1	5936	1	7302	1
473	0	1839	0	3205	0	4571	0	5937	0	7303	1
474	1	1840	1	3206	1	4572	0	5938	0	7304	1
475	0	1841	1	3207	0	4573	0	5939	0	7305	1
476	0	1842	0	3208	0	4574	1	5940	0	7306	1
477	0	1843	1	3209	0	4575	0	5941	1	7307	0
478	0	1844	1	3210	1	4576	0	5942	1	7308	1
479	1	1845	1	3211	0	4577	0	5943	1	7309	1
480	0	1846	1	3212	1	4578	0	5944	0	7310	1
481	0	1847	0	3213	0	4579	0	5945	0	7311	0
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483	0	1849	1	3215	0	4581	1	5947	0	7313	0
484	0	1850	0	3216	0	4582	1	5948	1	7314	0
485	1	1851	0	3217	1	4583	0	5949	0	7315	1
486	1	1852	1	3218	0	4584	1	5950	0	7316	0
487	1	1853	0	3219	1	4585	0	5951	1	7317	1
488	1	1854	0	3220	0	4586	0	5952	0	7318	1
489	1	1855	0	3221	1	4587	1	5953	1	7319	1
490	0	1856	0	3222	0	4588	1	5954	0	7320	1
491	0	1857	0	3223	0	4589	1	5955	0	7321	0
492	1	1858	0	3224	0	4590	1	5956	0	7322	0
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494	1	1860	1	3226	1	4592	0	5958	0	7324	1
495	0	1861	0	3227	0	4593	0	5959	0	7325	0
496	1	1862	0	3228	1	4594	0	5960	1	7326	1
497	0	1863	1	3229	1	4595	0	5961	1	7327	1
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499	1	1865	0	3231	0	4597	1	5963	0	7329	1
500	1	1866	0	3232	0	4598	1	5964	0	7330	0
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502	0	1868	0	3234	0	4600	1	5966	1	7332	1
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504	0	1870	1	3236	0	4602	0	5968	0	7334	1
505	0	1871	1	3237	0	4603	0	5969	0	7335	0
506	1	1872	0	3238	1	4604	0	5970	1	7336	0
507	1	1873	0	3239	1	4605	1	5971	1	7337	0
508	1	1874	1	3240	1	4606	1	5972	1	7338	0
509	0	1875	0	3241	1	4607	1	5973	0	7339	1
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513	1	1879	0	3245	0	4611	0	5977	1	7343	0
514	0	1880	0	3246	1	4612	0	5978	0	7344	0
515	0	1881	0	3247	1	4613	1	5979	1	7345	1
516	0	1882	1	3248	0	4614	0	5980	0	7346	0
517	0	1883	1	3249	1	4615	0	5981	1	7347	0
518	0	1884	0	3250	0	4616	0	5982	0	7348	0
519	0	1885	0	3251	0	4617	0	5983	1	7349	1
520	1	1886	1	3252	1	4618	1	5984	1	7350	1
521	0	1887	0	3253	1	4619	1	5985	1	7351	1
522	0	1888	1	3254	1	4620	1	5986	1	7352	1
523	0	1889	1	3255	1	4621	0	5987	1	7353	1
524	0	1890	1	3256	0	4622	1	5988	0	7354	0
525	1	1891	1	3257	0	4623	0	5989	0	7355	0
526	1	1892	1	3258	1	4624	0	5990	1	7356	0
527	0	1893	0	3259	1	4625	0	5991	0	7357	1
528	0	1894	0	3260	0	4626	0	5992	1	7358	0
529	1	1895	1	3261	0	4627	1	5993	1	7359	0
530	0	1896	0	3262	1	4628	0	5994	0	7360	1
531	0	1897	1	3263	1	4629	1	5995	0	7361	0
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533	1	1899	1	3265	1	4631	1	5997	0	7363	1
534	0	1900	0	3266	1	4632	0	5998	0	7364	0
535	1	1901	1	3267	1	4633	0	5999	1	7365	1
536	0	1902	1	3268	0	4634	1	6000	1	7366	1
537	0	1903	0	3269	0	4635	0	6001	1	7367	1
538	1	1904	1	3270	0	4636	0	6002	1	7368	1
539	1	1905	1	3271	0	4637	0	6003	1	7369	0
540	0	1906	1	3272	0	4638	1	6004	1	7370	1
541	1	1907	0	3273	1	4639	0	6005	0	7371	1
542	0	1908	1	3274	1	4640	1	6006	1	7372	1
543	0	1909	0	3275	0	4641	1	6007	0	7373	1
544	0	1910	1	3276	1	4642	1	6008	0	7374	1
545	0	1911	0	3277	1	4643	1	6009	1	7375	1
546	1	1912	0	3278	1	4644	1	6010	0	7376	0
547	1	1913	0	3279	1	4645	0	6011	1	7377	1
548	0	1914	0	3280	1	4646	1	6012	1	7378	0
549	1	1915	0	3281	0	4647	0	6013	1	7379	0
550	0	1916	1	3282	0	4648	1	6014	1	7380	1
551	0	1917	0	3283	0	4649	0	6015	1	7381	1
552	0	1918	0	3284	1	4650	1	6016	1	7382	0
553	1	1919	0	3285	1	4651	1	6017	1	7383	0
554	0	1920	1	3286	1	4652	0	6018	0	7384	0

555	0	1921	0	3287	1	4653	1	6019	1	7385	1
556	0	1922	1	3288	1	4654	1	6020	1	7386	1
557	0	1923	0	3289	0	4655	1	6021	1	7387	1
558	1	1924	0	3290	1	4656	1	6022	1	7388	0
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560	0	1926	0	3292	1	4658	0	6024	1	7390	0
561	1	1927	1	3293	0	4659	0	6025	0	7391	0
562	1	1928	0	3294	1	4660	0	6026	1	7392	0
563	0	1929	1	3295	0	4661	1	6027	1	7393	0
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565	0	1931	0	3297	0	4663	0	6029	1	7395	1
566	0	1932	1	3298	0	4664	0	6030	1	7396	1
567	0	1933	0	3299	1	4665	1	6031	0	7397	1
568	0	1934	0	3300	1	4666	0	6032	0	7398	0
569	0	1935	0	3301	1	4667	1	6033	1	7399	1
570	1	1936	0	3302	0	4668	1	6034	1	7400	0
571	1	1937	1	3303	1	4669	1	6035	1	7401	0
572	1	1938	0	3304	0	4670	0	6036	0	7402	0
573	0	1939	0	3305	0	4671	1	6037	1	7403	1
574	0	1940	1	3306	1	4672	0	6038	0	7404	0
575	0	1941	1	3307	1	4673	0	6039	0	7405	1
576	1	1942	0	3308	1	4674	1	6040	1	7406	1
577	1	1943	1	3309	1	4675	0	6041	0	7407	1
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579	1	1945	0	3311	1	4677	0	6043	1	7409	1
580	1	1946	1	3312	0	4678	1	6044	1	7410	0
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582	0	1948	0	3314	1	4680	1	6046	0	7412	1
583	0	1949	0	3315	0	4681	1	6047	0	7413	0
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587	1	1953	0	3319	0	4685	1	6051	0	7417	0
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589	0	1955	1	3321	1	4687	1	6053	0	7419	0
590	1	1956	1	3322	1	4688	0	6054	0	7420	1
591	0	1957	1	3323	0	4689	1	6055	0	7421	0
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593	0	1959	1	3325	0	4691	1	6057	1	7423	0
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595	0	1961	0	3327	1	4693	0	6059	1	7425	1
596	0	1962	1	3328	1	4694	1	6060	0	7426	0
597	0	1963	0	3329	1	4695	0	6061	0	7427	0
598	0	1964	0	3330	0	4696	1	6062	0	7428	0

599	0	1965	0	3331	1	4697	0	6063	0	7429	1
600	1	1966	1	3332	0	4698	0	6064	1	7430	0
601	0	1967	0	3333	0	4699	0	6065	1	7431	1
602	0	1968	1	3334	0	4700	0	6066	0	7432	0
603	0	1969	0	3335	1	4701	0	6067	0	7433	0
604	0	1970	0	3336	0	4702	1	6068	1	7434	1
605	0	1971	0	3337	0	4703	1	6069	0	7435	0
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607	1	1973	0	3339	0	4705	0	6071	0	7437	0
608	0	1974	1	3340	1	4706	1	6072	0	7438	1
609	1	1975	0	3341	0	4707	1	6073	0	7439	0
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611	1	1977	0	3343	0	4709	1	6075	1	7441	0
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615	0	1981	0	3347	1	4713	0	6079	0	7445	1
616	0	1982	0	3348	1	4714	0	6080	0	7446	0
617	0	1983	0	3349	1	4715	1	6081	1	7447	0
618	0	1984	1	3350	0	4716	0	6082	1	7448	1
619	1	1985	1	3351	0	4717	1	6083	0	7449	0
620	0	1986	1	3352	1	4718	1	6084	1	7450	1
621	1	1987	0	3353	0	4719	0	6085	1	7451	1
622	0	1988	0	3354	1	4720	0	6086	0	7452	0
623	1	1989	1	3355	1	4721	0	6087	1	7453	1
624	0	1990	1	3356	0	4722	1	6088	0	7454	0
625	1	1991	1	3357	1	4723	1	6089	0	7455	1
626	0	1992	0	3358	1	4724	1	6090	1	7456	0
627	0	1993	1	3359	1	4725	0	6091	0	7457	0
628	1	1994	0	3360	1	4726	0	6092	1	7458	0
629	1	1995	0	3361	1	4727	0	6093	1	7459	1
630	0	1996	1	3362	0	4728	1	6094	1	7460	1
631	1	1997	0	3363	0	4729	1	6095	1	7461	1
632	1	1998	1	3364	1	4730	0	6096	0	7462	0
633	0	1999	1	3365	1	4731	1	6097	1	7463	1
634	1	2000	0	3366	0	4732	0	6098	0	7464	0
635	0	2001	0	3367	0	4733	1	6099	0	7465	1
636	1	2002	1	3368	1	4734	0	6100	0	7466	0
637	1	2003	0	3369	0	4735	0	6101	1	7467	0
638	1	2004	1	3370	1	4736	0	6102	1	7468	1
639	1	2005	0	3371	1	4737	1	6103	0	7469	0
640	0	2006	0	3372	0	4738	0	6104	1	7470	1
641	1	2007	0	3373	0	4739	0	6105	1	7471	1
642	0	2008	0	3374	0	4740	1	6106	1	7472	0

643	0	2009	1	3375	1	4741	0	6107	1	7473	0
644	0	2010	1	3376	1	4742	0	6108	0	7474	1
645	0	2011	0	3377	0	4743	0	6109	1	7475	1
646	1	2012	1	3378	0	4744	1	6110	1	7476	0
647	0	2013	0	3379	1	4745	1	6111	1	7477	0
648	1	2014	1	3380	0	4746	0	6112	0	7478	1
649	1	2015	0	3381	0	4747	0	6113	0	7479	0
650	1	2016	0	3382	0	4748	0	6114	0	7480	1
651	0	2017	1	3383	0	4749	1	6115	1	7481	0
652	1	2018	0	3384	1	4750	0	6116	1	7482	0
653	0	2019	0	3385	0	4751	0	6117	1	7483	1
654	0	2020	0	3386	0	4752	1	6118	0	7484	0
655	0	2021	0	3387	0	4753	1	6119	1	7485	1
656	1	2022	1	3388	1	4754	1	6120	0	7486	1
657	1	2023	1	3389	0	4755	1	6121	0	7487	0
658	0	2024	0	3390	0	4756	0	6122	1	7488	1
659	0	2025	1	3391	0	4757	1	6123	0	7489	0
660	0	2026	1	3392	0	4758	1	6124	1	7490	0
661	1	2027	1	3393	1	4759	1	6125	0	7491	0
662	1	2028	0	3394	1	4760	0	6126	0	7492	0
663	0	2029	0	3395	1	4761	0	6127	1	7493	0
664	1	2030	1	3396	0	4762	1	6128	1	7494	0
665	0	2031	1	3397	0	4763	1	6129	1	7495	1
666	1	2032	1	3398	1	4764	1	6130	0	7496	0
667	1	2033	1	3399	1	4765	1	6131	0	7497	1
668	1	2034	1	3400	1	4766	0	6132	1	7498	0
669	0	2035	1	3401	1	4767	0	6133	1	7499	1
670	1	2036	1	3402	1	4768	1	6134	0	7500	0
671	0	2037	0	3403	0	4769	0	6135	0	7501	0
672	1	2038	0	3404	0	4770	1	6136	1	7502	1
673	0	2039	1	3405	1	4771	0	6137	0	7503	1
674	0	2040	1	3406	1	4772	1	6138	0	7504	1
675	0	2041	0	3407	1	4773	1	6139	0	7505	1
676	0	2042	1	3408	0	4774	1	6140	1	7506	1
677	1	2043	0	3409	1	4775	1	6141	1	7507	0
678	1	2044	0	3410	1	4776	0	6142	1	7508	1
679	1	2045	1	3411	1	4777	1	6143	0	7509	0
680	0	2046	1	3412	1	4778	0	6144	1	7510	0
681	0	2047	0	3413	1	4779	0	6145	0	7511	1
682	0	2048	1	3414	1	4780	1	6146	1	7512	1
683	1	2049	1	3415	0	4781	1	6147	1	7513	0
684	1	2050	0	3416	1	4782	0	6148	1	7514	0
685	0	2051	1	3417	0	4783	0	6149	0	7515	1
686	1	2052	1	3418	1	4784	0	6150	1	7516	1

687	1	2053	1	3419	1	4785	0	6151	1	7517	1
688	0	2054	0	3420	0	4786	1	6152	1	7518	1
689	0	2055	0	3421	0	4787	1	6153	0	7519	1
690	0	2056	1	3422	1	4788	0	6154	0	7520	1
691	0	2057	1	3423	1	4789	0	6155	1	7521	1
692	0	2058	0	3424	1	4790	1	6156	0	7522	0
693	0	2059	0	3425	1	4791	0	6157	1	7523	1
694	0	2060	0	3426	1	4792	0	6158	1	7524	1
695	0	2061	0	3427	1	4793	0	6159	0	7525	1
696	1	2062	1	3428	0	4794	0	6160	1	7526	1
697	0	2063	0	3429	0	4795	1	6161	1	7527	1
698	1	2064	1	3430	1	4796	1	6162	1	7528	1
699	1	2065	0	3431	0	4797	1	6163	1	7529	1
700	1	2066	0	3432	1	4798	0	6164	0	7530	0
701	0	2067	0	3433	1	4799	1	6165	1	7531	1
702	1	2068	1	3434	0	4800	1	6166	1	7532	0
703	0	2069	0	3435	1	4801	1	6167	0	7533	0
704	0	2070	0	3436	1	4802	1	6168	1	7534	1
705	1	2071	0	3437	0	4803	1	6169	0	7535	0
706	1	2072	0	3438	1	4804	0	6170	0	7536	0
707	0	2073	0	3439	1	4805	0	6171	0	7537	0
708	1	2074	0	3440	1	4806	1	6172	1	7538	0
709	1	2075	0	3441	1	4807	0	6173	0	7539	1
710	1	2076	1	3442	0	4808	0	6174	0	7540	0
711	1	2077	1	3443	0	4809	1	6175	1	7541	1
712	0	2078	0	3444	0	4810	1	6176	1	7542	0
713	0	2079	1	3445	0	4811	1	6177	1	7543	1
714	0	2080	0	3446	1	4812	1	6178	1	7544	1
715	1	2081	0	3447	1	4813	1	6179	0	7545	0
716	0	2082	1	3448	0	4814	1	6180	1	7546	1
717	0	2083	1	3449	0	4815	1	6181	1	7547	1
718	0	2084	0	3450	1	4816	1	6182	0	7548	1
719	0	2085	1	3451	0	4817	1	6183	1	7549	1
720	1	2086	1	3452	0	4818	0	6184	0	7550	1
721	0	2087	1	3453	1	4819	1	6185	0	7551	1
722	1	2088	1	3454	0	4820	1	6186	1	7552	0
723	1	2089	0	3455	0	4821	1	6187	1	7553	1
724	1	2090	1	3456	1	4822	1	6188	0	7554	0
725	0	2091	0	3457	0	4823	1	6189	0	7555	1
726	1	2092	1	3458	1	4824	1	6190	1	7556	0
727	0	2093	1	3459	0	4825	1	6191	0	7557	1
728	0	2094	0	3460	1	4826	0	6192	0	7558	0
729	0	2095	1	3461	1	4827	1	6193	1	7559	1
730	1	2096	0	3462	1	4828	1	6194	0	7560	1

731	0	2097	1	3463	1	4829	1	6195	1	7561	0
732	0	2098	0	3464	1	4830	1	6196	0	7562	1
733	1	2099	1	3465	0	4831	1	6197	1	7563	1
734	1	2100	0	3466	0	4832	0	6198	1	7564	1
735	0	2101	0	3467	0	4833	1	6199	1	7565	0
736	1	2102	0	3468	0	4834	0	6200	1	7566	0
737	0	2103	0	3469	1	4835	1	6201	1	7567	1
738	0	2104	1	3470	0	4836	1	6202	0	7568	1
739	1	2105	0	3471	0	4837	0	6203	0	7569	0
740	0	2106	1	3472	0	4838	0	6204	0	7570	1
741	0	2107	1	3473	1	4839	0	6205	1	7571	1
742	1	2108	0	3474	0	4840	1	6206	0	7572	0
743	1	2109	0	3475	0	4841	1	6207	1	7573	0
744	0	2110	0	3476	0	4842	0	6208	1	7574	1
745	1	2111	0	3477	1	4843	0	6209	0	7575	0
746	0	2112	1	3478	0	4844	1	6210	0	7576	1
747	0	2113	1	3479	0	4845	0	6211	1	7577	1
748	1	2114	0	3480	1	4846	0	6212	0	7578	1
749	1	2115	1	3481	1	4847	0	6213	1	7579	1
750	1	2116	0	3482	0	4848	0	6214	1	7580	0
751	0	2117	1	3483	1	4849	0	6215	1	7581	1
752	1	2118	1	3484	0	4850	1	6216	0	7582	0
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754	0	2120	1	3486	0	4852	0	6218	0	7584	1
755	1	2121	0	3487	1	4853	1	6219	0	7585	1
756	1	2122	1	3488	1	4854	0	6220	0	7586	1
757	1	2123	0	3489	1	4855	1	6221	1	7587	0
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761	0	2127	1	3493	1	4859	0	6225	0	7591	1
762	1	2128	1	3494	0	4860	0	6226	0	7592	0
763	1	2129	1	3495	0	4861	0	6227	1	7593	0
764	0	2130	0	3496	0	4862	1	6228	1	7594	0
765	1	2131	0	3497	0	4863	0	6229	1	7595	1
766	1	2132	1	3498	0	4864	0	6230	1	7596	0
767	0	2133	0	3499	0	4865	0	6231	1	7597	1
768	0	2134	0	3500	0	4866	1	6232	0	7598	1
769	1	2135	0	3501	1	4867	1	6233	1	7599	0
770	1	2136	0	3502	0	4868	1	6234	1	7600	1
771	0	2137	1	3503	1	4869	0	6235	1	7601	0
772	1	2138	0	3504	1	4870	0	6236	1	7602	1
773	0	2139	1	3505	0	4871	0	6237	0	7603	0
774	1	2140	1	3506	0	4872	1	6238	0	7604	1

775	0	2141	0	3507	0	4873	1	6239	0	7605	0
776	1	2142	1	3508	1	4874	1	6240	0	7606	1
777	0	2143	0	3509	0	4875	0	6241	0	7607	1
778	0	2144	1	3510	0	4876	0	6242	0	7608	0
779	0	2145	1	3511	0	4877	0	6243	1	7609	0
780	1	2146	1	3512	0	4878	0	6244	1	7610	1
781	0	2147	1	3513	1	4879	1	6245	0	7611	0
782	0	2148	1	3514	0	4880	1	6246	1	7612	1
783	1	2149	0	3515	0	4881	0	6247	1	7613	1
784	0	2150	0	3516	0	4882	0	6248	0	7614	0
785	0	2151	1	3517	1	4883	1	6249	1	7615	1
786	1	2152	0	3518	0	4884	0	6250	1	7616	0
787	1	2153	1	3519	1	4885	0	6251	0	7617	1
788	0	2154	0	3520	1	4886	0	6252	0	7618	0
789	1	2155	1	3521	1	4887	0	6253	0	7619	0
790	1	2156	0	3522	1	4888	0	6254	1	7620	1
791	0	2157	1	3523	1	4889	1	6255	0	7621	0
792	0	2158	0	3524	0	4890	1	6256	0	7622	0
793	0	2159	0	3525	1	4891	0	6257	0	7623	1
794	0	2160	1	3526	0	4892	0	6258	1	7624	1
795	0	2161	0	3527	1	4893	0	6259	0	7625	0
796	1	2162	1	3528	0	4894	0	6260	0	7626	1
797	1	2163	1	3529	1	4895	1	6261	0	7627	0
798	1	2164	0	3530	1	4896	1	6262	1	7628	0
799	0	2165	0	3531	0	4897	0	6263	1	7629	0
800	0	2166	1	3532	1	4898	0	6264	1	7630	0
801	1	2167	1	3533	1	4899	0	6265	1	7631	0
802	1	2168	1	3534	1	4900	0	6266	1	7632	1
803	0	2169	0	3535	0	4901	0	6267	0	7633	0
804	1	2170	0	3536	0	4902	1	6268	1	7634	1
805	1	2171	1	3537	1	4903	0	6269	0	7635	0
806	0	2172	1	3538	0	4904	1	6270	1	7636	1
807	0	2173	0	3539	0	4905	0	6271	0	7637	1
808	0	2174	0	3540	0	4906	1	6272	0	7638	0
809	1	2175	0	3541	0	4907	0	6273	1	7639	0
810	0	2176	0	3542	1	4908	0	6274	0	7640	0
811	1	2177	1	3543	1	4909	1	6275	0	7641	1
812	0	2178	0	3544	0	4910	1	6276	0	7642	1
813	1	2179	0	3545	0	4911	1	6277	0	7643	1
814	0	2180	1	3546	0	4912	1	6278	1	7644	0
815	1	2181	0	3547	1	4913	0	6279	0	7645	0
816	0	2182	1	3548	1	4914	1	6280	1	7646	0
817	0	2183	0	3549	1	4915	0	6281	1	7647	0
818	1	2184	1	3550	1	4916	1	6282	0	7648	0

819	0	2185	0	3551	1	4917	1	6283	0	7649	1
820	1	2186	0	3552	1	4918	1	6284	0	7650	0
821	0	2187	0	3553	1	4919	1	6285	0	7651	1
822	0	2188	1	3554	0	4920	0	6286	0	7652	1
823	0	2189	1	3555	1	4921	0	6287	1	7653	0
824	0	2190	1	3556	1	4922	0	6288	1	7654	1
825	0	2191	1	3557	1	4923	0	6289	1	7655	1
826	1	2192	0	3558	1	4924	0	6290	1	7656	0
827	0	2193	0	3559	1	4925	0	6291	0	7657	0
828	1	2194	1	3560	1	4926	1	6292	1	7658	0
829	0	2195	0	3561	0	4927	1	6293	0	7659	1
830	1	2196	0	3562	1	4928	1	6294	0	7660	0
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832	0	2198	0	3564	0	4930	0	6296	0	7662	0
833	1	2199	0	3565	0	4931	0	6297	1	7663	1
834	0	2200	1	3566	1	4932	1	6298	1	7664	0
835	0	2201	1	3567	1	4933	1	6299	1	7665	1
836	0	2202	1	3568	0	4934	1	6300	0	7666	0
837	0	2203	1	3569	0	4935	1	6301	1	7667	0
838	1	2204	0	3570	0	4936	1	6302	1	7668	1
839	1	2205	1	3571	0	4937	0	6303	1	7669	0
840	1	2206	0	3572	1	4938	0	6304	1	7670	0
841	1	2207	0	3573	0	4939	0	6305	0	7671	1
842	0	2208	0	3574	0	4940	1	6306	0	7672	0
843	1	2209	0	3575	1	4941	0	6307	1	7673	0
844	0	2210	0	3576	1	4942	1	6308	0	7674	1
845	1	2211	0	3577	0	4943	1	6309	0	7675	1
846	1	2212	0	3578	0	4944	0	6310	0	7676	1
847	1	2213	0	3579	1	4945	1	6311	0	7677	0
848	0	2214	0	3580	1	4946	0	6312	1	7678	1
849	1	2215	1	3581	1	4947	0	6313	1	7679	1
850	0	2216	0	3582	1	4948	1	6314	1	7680	1
851	0	2217	0	3583	0	4949	0	6315	1	7681	0
852	1	2218	1	3584	0	4950	1	6316	0	7682	1
853	1	2219	0	3585	0	4951	0	6317	1	7683	1
854	0	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	1	3588	1	4954	1	6320	1	7686	1
857	0	2223	1	3589	0	4955	0	6321	1	7687	0
858	1	2224	0	3590	1	4956	0	6322	0	7688	0
859	0	2225	0	3591	0	4957	1	6323	0	7689	0
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861	1	2227	1	3593	0	4959	1	6325	1	7691	1
862	1	2228	1	3594	1	4960	0	6326	1	7692	1

863	1	2229	1	3595	0	4961	0	6327	0	7693	1
864	1	2230	1	3596	1	4962	1	6328	1	7694	0
865	0	2231	1	3597	0	4963	1	6329	0	7695	1
866	1	2232	0	3598	0	4964	1	6330	0	7696	1
867	1	2233	1	3599	1	4965	1	6331	0	7697	0
868	1	2234	0	3600	1	4966	0	6332	0	7698	1
869	0	2235	0	3601	1	4967	0	6333	1	7699	0
870	1	2236	1	3602	1	4968	0	6334	0	7700	0
871	0	2237	0	3603	1	4969	1	6335	1	7701	1
872	0	2238	0	3604	1	4970	0	6336	1	7702	0
873	0	2239	1	3605	1	4971	1	6337	1	7703	0
874	1	2240	1	3606	1	4972	0	6338	0	7704	1
875	1	2241	0	3607	1	4973	0	6339	1	7705	1
876	1	2242	1	3608	1	4974	0	6340	1	7706	0
877	0	2243	0	3609	0	4975	0	6341	1	7707	1
878	1	2244	1	3610	1	4976	0	6342	1	7708	1
879	0	2245	1	3611	0	4977	1	6343	0	7709	0
880	1	2246	1	3612	1	4978	1	6344	0	7710	1
881	1	2247	0	3613	0	4979	1	6345	1	7711	0
882	1	2248	1	3614	1	4980	1	6346	1	7712	0
883	1	2249	0	3615	0	4981	1	6347	1	7713	1
884	0	2250	1	3616	1	4982	1	6348	1	7714	0
885	0	2251	1	3617	1	4983	1	6349	1	7715	0
886	0	2252	1	3618	0	4984	1	6350	1	7716	1
887	0	2253	1	3619	1	4985	1	6351	0	7717	0
888	1	2254	1	3620	0	4986	0	6352	1	7718	1
889	1	2255	0	3621	0	4987	1	6353	0	7719	0
890	1	2256	1	3622	0	4988	1	6354	1	7720	0
891	0	2257	1	3623	0	4989	1	6355	1	7721	1
892	1	2258	1	3624	1	4990	0	6356	0	7722	1
893	0	2259	0	3625	1	4991	1	6357	0	7723	1
894	0	2260	1	3626	0	4992	1	6358	1	7724	1
895	1	2261	0	3627	1	4993	0	6359	1	7725	1
896	0	2262	0	3628	1	4994	1	6360	1	7726	0
897	0	2263	1	3629	1	4995	0	6361	1	7727	0
898	1	2264	0	3630	1	4996	1	6362	1	7728	0
899	1	2265	0	3631	1	4997	1	6363	0	7729	0
900	1	2266	0	3632	1	4998	0	6364	0	7730	1
901	1	2267	1	3633	1	4999	1	6365	0	7731	1
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904	0	2270	1	3636	1	5002	1	6368	0	7734	0
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909	0	2275	0	3641	0	5007	1	6373	0	7739	0
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912	1	2278	0	3644	1	5010	1	6376	1	7742	1
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915	1	2281	0	3647	0	5013	0	6379	1	7745	0
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918	0	2284	0	3650	1	5016	1	6382	0	7748	1
919	1	2285	0	3651	0	5017	0	6383	1	7749	1
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921	0	2287	1	3653	1	5019	0	6385	0	7751	0
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1180	1	2546	0	3912	0	5278	0	6644	1	8010	0
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UNIVERSITÉ DE STRASBOURG, CNRS, IRMA UMR 7501, F-67000 STRASBOURG, FRANCE
Email address: `guoniu.han@unistra.fr`

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