

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z^5 + z^4 + z, z^2 + 1)$$

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ABSTRACT. The continued fraction conjecture claims that the continued fraction defined by the (a, b) -Thue-Morse sequence is algebraic over $\mathbb{F}_2(x)$ for all pairs of distinct elements (a, b) in $\mathbb{F}_2[x] \setminus \mathbb{F}_2$. In this paper we prove the conjecture for $(a, b) = (z^5 + z^4 + z, z^2 + 1)$.

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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Theorem 1.1. *When $(a, b) = (z^5 + z^4 + z, z^2 + 1)$, the two power series $\text{CF}(a, b)$ and $\text{CF}(b, a)$ are algebraic over $\mathbb{F}_2(z)$, with minimal polynomials of the form*

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

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

$$\begin{aligned} p_0(z) &= z^{21} + z^{20} + z^{16} + z^{14} + z^{10} + z^8 + z^7 + z^4 + z^3 + z^2 + z + 1, \\ p_1(z) &= z^{26} + z^{24} + z^{23} + z^{21} + z^{18} + z^{14} + z^{12} + z^9 + z^8 + z^7 + z^6 + z^5 + z^2 + z \\ &\quad , \\ p_2(z) &= z^{28} + z^{20} + z^{18} + z^{16} + z^{12} + z^2, \\ p_3(z) &= z^{26} + z^{24} + z^{23} + z^{21} + z^{18} + z^{14} + z^{12} + z^9 + z^8 + z^7 + z^6 + z^5 + z^2 + z \\ &\quad , \\ p_4(z) &= z^{24} + z^{21} + z^{18} + z^{14} + z^{10} + z^7 + z^4 + z^3 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{21} + z^{14} + z^{10} + z^7 + z^3 + z^2 + z, \\ p_1(z) &= z^{26} + z^{24} + z^{23} + z^{21} + z^{18} + z^{14} + z^{12} + z^9 + z^8 + z^7 + z^6 + z^5 + z^2 + z \\ &\quad , \\ p_2(z) &= z^{28} + z^{20} + z^{18} + z^{16} + z^{12} + z^2, \\ p_3(z) &= z^{26} + z^{24} + z^{23} + z^{21} + z^{18} + z^{14} + z^{12} + z^9 + z^8 + z^7 + z^6 + z^5 + z^2 + z \\ &\quad , \\ p_4(z) &= z^{24} + z^{21} + z^{20} + z^{18} + z^{16} + z^{14} + z^{10} + z^8 + z^7 + z^3 + z + 1. \end{aligned}$$

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

$$(175, 175, 175, 175, 175)$$

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 630 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 630, 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 770 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 770, 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.*

$$\begin{aligned} M^e[:14u] &= M^e[:7u] + x^u M^e[:6u] + x^{2u} M^e[:5u] + x^{3u} M^e[:4u] + x^{5u} M^e[:2u] \\ &\quad + x^u M^e[:7u] + x^{2u} M^e[:6u] + x^{3u} M^e[:5u] + x^{4u} M^e[:4u] \\ &\quad + x^{6u} M^e[:2u] + x^{4u} M^e[:7u] + x^{5u} M^e[:6u] + x^{6u} M^e[:5u] \\ &\quad + x^{7u} M^e[:4u] + x^{9u} M^e[:2u] + (x^{7u} + x^{8u} + x^{11u}) R^e, \end{aligned}$$

$$\begin{aligned}
W^e[:14u] &= W^e[:7u] + x^u W^e[:6u] + x^{2u} W^e[:5u] + x^{3u} W^e[:4u] + x^{5u} W^e[:2u] \\
&\quad + x^u W^e[:7u] + x^{2u} W^e[:6u] + x^{3u} W^e[:5u] + x^{4u} W^e[:4u] \\
&\quad + x^{6u} W^e[:2u] + x^{4u} W^e[:7u] + x^{5u} W^e[:6u] + x^{6u} W^e[:5u] \\
&\quad + x^{7u} W^e[:4u] + x^{9u} W^e[:2u] + (x^{7u} + x^{8u} + x^{11u}) R^e.
\end{aligned}$$

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

$$\begin{aligned}
M^o[:14u] &= M^o[:7u] + x^u M^o[:6u] + x^{2u} M^o[:5u] + x^{3u} M^o[:4u] + x^{5u} M^o[:2u] \\
&\quad + x^u M^o[:7u] + x^{2u} M^o[:6u] + x^{3u} M^o[:5u] + x^{4u} M^o[:4u] \\
&\quad + x^{6u} M^o[:2u] + x^{4u} M^o[:7u] + x^{5u} M^o[:6u] + x^{6u} M^o[:5u] \\
&\quad + x^{7u} M^o[:4u] + x^{9u} M^o[:2u] + (x^{7u} + x^{8u} + x^{11u}) R^o, \\
W^o[:14u] &= W^o[:7u] + x^u W^o[:6u] + x^{2u} W^o[:5u] + x^{3u} W^o[:4u] + x^{5u} W^o[:2u] \\
&\quad + x^u W^o[:7u] + x^{2u} W^o[:6u] + x^{3u} W^o[:5u] + x^{4u} W^o[:4u] \\
&\quad + x^{6u} W^o[:2u] + x^{4u} W^o[:7u] + x^{5u} W^o[:6u] + x^{6u} W^o[:5u] \\
&\quad + x^{7u} W^o[:4u] + x^{9u} W^o[:2u] + (x^{7u} + x^{8u} + x^{11u}) R^o.
\end{aligned}$$

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 $u = 2^{2k}$,

$$\begin{aligned}
T[:14u] &= T[:7u] + x^u T[:6u] + x^{2u} T[:5u] + x^{3u} T[:4u] + x^{5u} T[:2u] + x^u T[:7u] \\
&\quad + x^{2u} T[:6u] + x^{3u} T[:5u] + x^{4u} T[:4u] + x^{6u} T[:2u] + x^{4u} T[:7u] \\
&\quad + x^{5u} T[:6u] + x^{6u} T[:5u] + x^{7u} T[:4u] + x^{9u} T[:2u].
\end{aligned}$$

The proof of the other 15 cases are similar. We break down the above identity into 7 parts:

$$\begin{aligned}
0 &= x^{7u} T[:u] + x^{5u} T[2u:3u] + x^{3u} T[4u:5u] + x^{2u} T[5u:6u] \\
&\quad + x^u T[6u:7u] + T[7u:8u], \\
0 &= x^{7u} T[u:2u] + x^{6u} T[2u:3u] + x^{5u} T[3u:4u] + x^{4u} T[4u:5u] \\
&\quad + T[8u:9u], \\
0 &= x^{9u} T[:u] + x^{7u} T[2u:3u] + x^{6u} T[3u:4u] + x^{5u} T[4u:5u] \\
&\quad + x^{4u} T[5u:6u] + T[9u:10u], \\
0 &= x^{9u} T[u:2u] + x^{7u} T[3u:4u] + x^{6u} T[4u:5u] + x^{5u} T[5u:6u] \\
&\quad + x^{4u} T[6u:7u] + T[10u:11u], \\
0 &= T[11u:12u], \\
0 &= T[12u:13u], \\
0 &= T[13u:14u],
\end{aligned}$$

which can be rewritten as

$$\begin{aligned}
0 &= T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[110w]_2] \\
(2.7) \quad &\quad + T[[111w]_2],
\end{aligned}$$

$$(2.8) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

$$0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2]$$

$$(2.9) \quad + T[[1001w]_2],$$

$$0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[110w]_2]$$

$$(2.10) \quad + T[[1010w]_2],$$

$$(2.11) \quad 0 = T[[1011w]_2],$$

$$(2.12) \quad 0 = T[[1100w]_2],$$

$$(2.13) \quad 0 = T[[1101w]_2],$$

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

$$0 = T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[110w]_2]$$

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

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

$$0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2]$$

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

$$0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[110w]_2]$$

$$(2.17) \quad + T[[1010w]_2],$$

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

$$(2.19) \quad 0 = T[[1100w]_2],$$

$$(2.20) \quad 0 = T[[1101w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 9612 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 (2.20) can be written as

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

$$+ \tau(A(s, 110)) + \tau(A(s, 111)),$$

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

$$(2.22) \quad + \tau(A(s, 1000)),$$

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

$$(2.23) \quad + \tau(A(s, 101)) + \tau(A(s, 1001)),$$

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

$$(2.24) \quad + \tau(A(s, 110)) + \tau(A(s, 1010)),$$

$$(2.25) \quad 0 = \tau(A(s, 1011)),$$

$$(2.26) \quad 0 = \tau(A(s, 1100)),$$

$$(2.27) \quad 0 = \tau(A(s, 1101)),$$

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

$$(2.28) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\ &\quad + \tau(A(s, 110)) + \tau(A(s, 111)), \end{aligned}$$

$$(2.29) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1000)), \end{aligned}$$

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

$$(2.31) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\ &\quad + \tau(A(s, 110)) + \tau(A(s, 1010)), \end{aligned}$$

$$(2.32) \quad 0 = \tau(A(s, 1011)),$$

$$(2.33) \quad 0 = \tau(A(s, 1100)),$$

$$(2.34) \quad 0 = \tau(A(s, 1101)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{50}), E_{50}) = (A(i, 0^{34}), E_{34})$, so that we only have to verify that identities (2.21) through (2.34) hold for $2 \leq k \leq 25$, 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 $u = 2^{2k-1}$,*

$$\begin{aligned} M_{2k} &= M^e[:7u] + x^u M^e[:6u] + x^{2u} M^e[:5u] + x^{3u} M^e[:4u] + x^{5u} M^e[:2u] \\ &\quad + x^{7u} R^e, \end{aligned}$$

$$\begin{aligned} W_{2k} &= W^e[:7u] + x^u W^e[:6u] + x^{2u} W^e[:5u] + x^{3u} W^e[:4u] + x^{5u} W^e[:2u] \\ &\quad + x^{7u} R^e. \end{aligned}$$

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

$$\begin{aligned} M_{2k+1} &= M^o[:7u] + x^u M^o[:6u] + x^{2u} M^o[:5u] + x^{3u} M^o[:4u] + x^{5u} M^o[:2u] \\ &\quad + x^{7u} R^o, \end{aligned}$$

$$\begin{aligned} W_{2k+1} &= W^o[:7u] + x^u W^o[:6u] + x^{2u} W^o[:5u] + x^{3u} W^o[:4u] + x^{5u} W^o[:2u] \\ &\quad + x^{7u} R^o. \end{aligned}$$

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

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

We give the proof of

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

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

$$\begin{aligned} W_{2k} M_{2k} &= (W^e[:7v] + x^v W^e[:6v] + x^{2v} W^e[:5v] + x^{3v} W^e[:4v] \\ &\quad + x^{5v} W^e[:2v] + x^{7v} R^e) \times (M^e[:7v] + x^v M^e[:6v] + x^{2v} M^e[:5v] \end{aligned}$$

$$(2.35) \quad + x^{3v} M^e[:4v] + x^{5v} M^e[:2v] + x^{7u} R^e);$$

Call this expression *lhs*. Note that both sides of identity M_{2k+1} have the same term of highest degree $x^{14v} R^o$. Therefore we only need to prove that their difference is $O(x^{14v})$. Using Lemma 2.1 it can be seen that the right side of identity M_{2k+1} is congruent, modulo x^{14v} , to

$$\begin{aligned} & W^e[:14v] M^e[:14v] + x^{2v} W^e[:12v] M^e[:12v] + x^{4v} W^e[:10v] M^e[:10v] \\ & + x^{6v} W^e[:8v] M^e[:8v] + x^{10v} W^e[:4v] M^e[:4v]. \end{aligned}$$

For all $n \leq 14$, 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* (2.35) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{14}, b_1, \dots, b_{14}, c][X]$. 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 $O(X^{14})$, 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

$$\begin{aligned} q_0(x) &= x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{21} + x^{20} + x^{18} + x^{14} + x^{12} + x^8 + x^7, \\ q_1(x) &= x^{27} + x^{26} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{14} + x^{10} + x^7 + x^5 \end{aligned}$$

$$\begin{aligned}
& + x^4 + x^2, \\
q_2(x) &= x^{26} + x^{16} + x^{12} + x^{10} + x^8 + 1, \\
q_3(x) &= x^{27} + x^{26} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{14} + x^{10} + x^7 + x^5 \\
& + x^4 + x^2, \\
q_4(x) &= x^{27} + x^{25} + x^{24} + x^{21} + x^{18} + x^{14} + x^{10} + x^7 + x^4.
\end{aligned}$$

The polynomial $Q(x, y)$ is the candidate for the minimal polynomial of $f(x)$ found by Padé-Hermite approximation. To prove that it is indeed the minimal polynomial of $f(x)$, we only need to prove that it is an irreducible factor of $P(x, y)$ of multiplicity m and $R(x, y) := P(x, y)/Q(x, y)^m$ is not an annihilating polynomial of $f(x)$. We verify the first point directly. For the second point, we find that when we truncate $f(x)$ to order 216, and substitute it for y in $R(z, y)$, we get a series with valuation smaller than 216, which proves that $R(z, y)$ is not an annihilating polynomial of $f(x)$. Finally, $z^{12}Q(1/z, y)$ is the minimal polynomial of $\text{CF}(a, b) = f(1/z)$. $\square$

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{134} + x^{128} + x^{126} + x^{124} + x^{120} + x^{118} + x^{112} + x^{110} + x^{106} \\
& + x^{102} + x^{96} + x^{94} + x^{90} + x^{82} + x^{80} + x^{74} + x^{64} + x^{60} + x^{54} + x^{50} \\
& + x^{48} + x^{46} + x^{40} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24}, \\
p_3(x) &= x^{130} + x^{124} + x^{122} + x^{118} + x^{112} + x^{110} + x^{106} + x^{104} + x^{102} + x^{94} \\
& + x^{90} + x^{86} + x^{84} + x^{82} + x^{74} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58} + x^{56} \\
& + x^{52} + x^{50} + x^{48} + x^{46} + x^{42} + x^{40} + x^{38} + x^{30} + x^{26} + x^{24} + x^{22} \\
& + x^{20} + x^{16}, \\
p_6(x) &= x^{134} + x^{130} + x^{126} + x^{124} + x^{114} + x^{112} + x^{108} + x^{106} + x^{100} + x^{96} \\
& + x^{94} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} + x^{74} + x^{72} \\
& + x^{70} + x^{68} + x^{66} + x^{62} + x^{52} + x^{50} + x^{48} + x^{40} + x^{38} + x^{30} + x^{28} \\
& + x^{26} + x^{20} + x^{18} + x^{16} + x^{10} + x^8 + x^6 + x^4 + x^2 + 1, \\
p_9(x) &= x^{136} + x^{134} + x^{130} + x^{124} + x^{122} + x^{120} + x^{118} + x^{114} + x^{112} + x^{108} \\
& + x^{104} + x^{98} + x^{94} + x^{92} + x^{90} + x^{82} + x^{78} + x^{74} + x^{70} + x^{68} + x^{66} \\
& + x^{60} + x^{56} + x^{50} + x^{48} + x^{44} + x^{38} + x^{36} + x^{34} + x^{22} + x^{20} + x^{18} \\
& + x^{12} + x^{10} + x^6 + x^4, \\
p_{12}(x) &= x^{136} + x^{130} + x^{128} + x^{120} + x^{114} + x^{112} + x^{104} + x^{98} + x^{96} + x^{72} \\
& + x^{66} + x^{64} + x^{40} + x^{34} + x^{32} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{147} + x^{146} + x^{141} + x^{139} + x^{137} + x^{134} + x^{132} + x^{131} + x^{129} + x^{125} \\ & + x^{124} + x^{122} + x^{119} + x^{118} + x^{116} + x^{115} + x^{112} + x^{110} + x^{108} \\ & + x^{105} + x^{104} + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{91} + x^{90} + x^{87} + x^{84} \\ & + x^{83} + x^{82} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} \\ & + x^{66} + x^{63} + x^{62} + x^{60} + x^{55} + x^{54} + x^{53} + x^{51} + x^{48} + x^{47} + x^{44} \\ & + x^{42} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{145} + x^{144} + x^{143} + x^{141} + x^{140} + x^{137} + x^{136} + x^{134} + x^{132} + x^{128} \\ & + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{118} + x^{117} + x^{116} \\ & + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{103} + x^{102} + x^{101} \\ & + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} + x^{81} \\ & + x^{80} + x^{79} + x^{77} + x^{76} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} + x^{63} + x^{62} \\ & + x^{59} + x^{58} + x^{56} + x^{55} + x^{52} + x^{49} + x^{47} + x^{46} + x^{35} + x^{34} + x^{32} \\ & + x^{31} + x^{28} + x^{27} + x^{26} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{144} + x^{141} + x^{140} + x^{136} + x^{133} + x^{132} + x^{128} + x^{126} + x^{125} + x^{124} \\ & + x^{123} + x^{122} + x^{120} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{109} \\ & + x^{108} + x^{106} + x^{103} + x^{102} + x^{94} + x^{92} + x^{91} + x^{89} + x^{87} + x^{85} \\ & + x^{84} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{67} + x^{64} \\ & + x^{63} + x^{61} + x^{60} + x^{59} + x^{55} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} \\ & + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{33} + x^{32} + x^{31} + x^{28} \\ & + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} + x^{14} + x^{13} \\ & + x^{12}, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{143} + x^{142} + x^{140} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{131} \\ & + x^{130} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{110} + x^{108} + x^{104} \\ & + x^{102} + x^{98} + x^{97} + x^{95} + x^{93} + x^{91} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} \\ & + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} + x^{63} \\ & + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\ & + x^{47} + x^{46} + x^{44} + x^{42} + x^{39} + x^{35} + x^{33} + x^{32} + x^{27} + x^{26} + x^{24} \\ & + x^{23} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12} + x^9 + x^7 + x^6, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{142} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{134} + x^{132} + x^{131} + x^{129} \\ & + x^{127} + x^{125} + x^{123} + x^{121} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} \\ & + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} \\ & + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} \\ & + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{66} \\ & + x^{65} + x^{64} + x^{46} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} \end{aligned}$$

$$\begin{aligned}
& + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} \\
& + x^{18} + x^{16} + x^{15} + x^{13} + x^{11} + x^9 + x^7 + x^5 + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{146} + x^{141} + x^{139} + x^{137} + x^{134} + x^{132} + x^{131} + x^{129} + x^{125} \\
& + x^{124} + x^{122} + x^{119} + x^{118} + x^{116} + x^{115} + x^{112} + x^{110} + x^{108} \\
& + x^{105} + x^{104} + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{91} + x^{90} + x^{87} + x^{84} \\
& + x^{83} + x^{82} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} \\
& + x^{66} + x^{63} + x^{62} + x^{60} + x^{55} + x^{54} + x^{53} + x^{51} + x^{48} + x^{47} + x^{44} \\
& + x^{42} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{145} + x^{144} + x^{143} + x^{141} + x^{140} + x^{137} + x^{136} + x^{134} + x^{132} + x^{128} \\
& + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{118} + x^{117} + x^{116} \\
& + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{103} + x^{102} + x^{101} \\
& + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} + x^{81} \\
& + x^{80} + x^{79} + x^{77} + x^{76} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} + x^{63} + x^{62} \\
& + x^{59} + x^{58} + x^{56} + x^{55} + x^{52} + x^{49} + x^{47} + x^{46} + x^{35} + x^{34} + x^{32} \\
& + x^{31} + x^{28} + x^{27} + x^{26} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{144} + x^{141} + x^{140} + x^{136} + x^{133} + x^{132} + x^{128} + x^{126} + x^{125} + x^{124} \\
& + x^{123} + x^{122} + x^{120} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{109} \\
& + x^{108} + x^{106} + x^{103} + x^{102} + x^{94} + x^{92} + x^{91} + x^{89} + x^{87} + x^{85} \\
& + x^{84} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{67} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{59} + x^{55} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} \\
& + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{33} + x^{32} + x^{31} + x^{28} \\
& + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} + x^{14} + x^{13} \\
& + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{143} + x^{142} + x^{140} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{131} \\
& + x^{130} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{110} + x^{108} + x^{104} \\
& + x^{102} + x^{98} + x^{97} + x^{95} + x^{93} + x^{91} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} \\
& + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{46} + x^{44} + x^{42} + x^{39} + x^{35} + x^{33} + x^{32} + x^{27} + x^{26} + x^{24} \\
& + x^{23} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12} + x^9 + x^7 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{142} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{134} + x^{132} + x^{131} + x^{129} \\
& + x^{127} + x^{125} + x^{123} + x^{121} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} \\
& + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{100}
\end{aligned}$$

$$\begin{aligned}
& + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} \\
& + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{66} \\
& + x^{65} + x^{64} + x^{46} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} \\
& + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} \\
& + x^{18} + x^{16} + x^{15} + x^{13} + x^{11} + x^9 + x^7 + x^5 + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{156} + x^{154} + x^{152} + x^{150} + x^{148} + x^{142} + x^{138} + x^{136} + x^{130} + x^{128} \\
&+ x^{122} + x^{118} + x^{114} + x^{112} + x^{106} + x^{104} + x^{98} + x^{96} + x^{94} + x^{92} \\
&+ x^{90} + x^{88} + x^{84} + x^{82} + x^{78} + x^{76} + x^{64} + x^{62} + x^{58} + x^{56} + x^{50} \\
&+ x^{44} + x^{42}, \\
p_3(x) &= x^{150} + x^{148} + x^{142} + x^{136} + x^{132} + x^{122} + x^{120} + x^{118} + x^{110} + x^{108} \\
&+ x^{106} + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} + x^{88} + x^{82} + x^{74} + x^{72} + x^{68} \\
&+ x^{64} + x^{58} + x^{56} + x^{54} + x^{52} + x^{46} + x^{38} + x^{36} + x^{34} + x^{30} + x^{26} \\
&+ x^{24} + x^{20} + x^{16} + x^{12}, \\
p_6(x) &= x^{150} + x^{146} + x^{120} + x^{116} + x^{114} + x^{110} + x^{104} + x^{98} + x^{96} + x^{94} \\
&+ x^{90} + x^{86} + x^{84} + x^{82} + x^{76} + x^{74} + x^{72} + x^{70} + x^{66} + x^{64} + x^{62} \\
&+ x^{58} + x^{56} + x^{40} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{20} + x^{18} \\
&+ x^{14} + x^{10} + x^8 + 1, \\
p_9(x) &= x^{148} + x^{146} + x^{144} + x^{142} + x^{138} + x^{136} + x^{130} + x^{128} + x^{124} + x^{122} \\
&+ x^{120} + x^{114} + x^{108} + x^{106} + x^{104} + x^{102} + x^{98} + x^{86} + x^{82} + x^{78} \\
&+ x^{72} + x^{70} + x^{68} + x^{66} + x^{58} + x^{56} + x^{40} + x^{38} + x^{34} + x^{32} + x^{26} \\
&+ x^{18} + x^{16} + x^{10} + x^8 + x^4, \\
p_{12}(x) &= x^{148} + x^{144} + x^{124} + x^{120} + x^{100} + x^{96} + x^{92} + x^{88} + x^{84} + x^{80} + x^{76} \\
&+ x^{72} + x^{68} + x^{64} + x^{52} + x^{48} + x^{36} + x^{32} + x^{28} + x^{24} + x^{20} + x^{16} \\
&+ x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{156} + x^{154} + x^{150} + x^{148} + x^{146} + x^{144} + x^{142} + x^{140} + x^{138} + x^{136} \\
&+ x^{134} + x^{128} + x^{126} + x^{120} + x^{110} + x^{108} + x^{106} + x^{98} + x^{96} + x^{94} \\
&+ x^{90} + x^{84} + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{62} + x^{58} + x^{56} \\
&+ x^{54} + x^{52} + x^{46} + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} \\
&+ x^{24}, \\
p_3(x) &= x^{150} + x^{148} + x^{146} + x^{144} + x^{142} + x^{136} + x^{134} + x^{130} + x^{124} + x^{118} \\
&+ x^{116} + x^{112} + x^{110} + x^{108} + x^{104} + x^{102} + x^{98} + x^{92} + x^{88} + x^{84}
\end{aligned}$$

$$\begin{aligned}
& + x^{82} + x^{80} + x^{78} + x^{74} + x^{70} + x^{68} + x^{62} + x^{60} + x^{58} + x^{56} + x^{54} \\
& + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{28} \\
& + x^{18} + x^{16}, \\
p_6(x) &= x^{150} + x^{136} + x^{134} + x^{132} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{114} \\
& + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{100} + x^{98} + x^{90} + x^{88} + x^{86} \\
& + x^{84} + x^{82} + x^{80} + x^{78} + x^{74} + x^{66} + x^{64} + x^{60} + x^{58} + x^{56} + x^{52} \\
& + x^{50} + x^{48} + x^{44} + x^{42} + x^{34} + x^{28} + x^{24} + x^{20} + x^{14} + x^{10} + 1, \\
p_9(x) &= x^{148} + x^{146} + x^{144} + x^{142} + x^{138} + x^{136} + x^{130} + x^{128} + x^{124} + x^{122} \\
& + x^{120} + x^{114} + x^{108} + x^{106} + x^{104} + x^{102} + x^{98} + x^{86} + x^{82} + x^{78} \\
& + x^{72} + x^{70} + x^{68} + x^{66} + x^{58} + x^{56} + x^{40} + x^{38} + x^{34} + x^{32} + x^{26} \\
& + x^{18} + x^{16} + x^{10} + x^8 + x^4, \\
p_{12}(x) &= x^{148} + x^{144} + x^{124} + x^{120} + x^{100} + x^{96} + x^{92} + x^{88} + x^{84} + x^{80} + x^{76} \\
& + x^{72} + x^{68} + x^{64} + x^{52} + x^{48} + x^{36} + x^{32} + x^{28} + x^{24} + x^{20} + x^{16} \\
& + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{145} + x^{144} + x^{141} + x^{139} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} \\
& + x^{133} + x^{132} + x^{130} + x^{128} + x^{127} + x^{124} + x^{123} + x^{121} + x^{119} \\
& + x^{116} + x^{115} + x^{114} + x^{109} + x^{108} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{101} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} \\
& + x^{84} + x^{79} + x^{76} + x^{75} + x^{73} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} \\
& + x^{59} + x^{58} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{35} + x^{34} + x^{33}, \\
p_3(x) &= x^{145} + x^{144} + x^{143} + x^{141} + x^{140} + x^{137} + x^{136} + x^{134} + x^{132} + x^{128} \\
& + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{118} + x^{117} + x^{116} \\
& + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{103} + x^{102} + x^{101} \\
& + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} + x^{81} \\
& + x^{80} + x^{79} + x^{77} + x^{76} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} + x^{63} + x^{62} \\
& + x^{59} + x^{58} + x^{56} + x^{55} + x^{52} + x^{49} + x^{47} + x^{46} + x^{35} + x^{34} + x^{32} \\
& + x^{31} + x^{28} + x^{27} + x^{26} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18}, \\
p_6(x) &= x^{144} + x^{141} + x^{140} + x^{136} + x^{133} + x^{132} + x^{128} + x^{126} + x^{125} + x^{124} \\
& + x^{123} + x^{122} + x^{120} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{109} \\
& + x^{108} + x^{106} + x^{103} + x^{102} + x^{94} + x^{92} + x^{91} + x^{89} + x^{87} + x^{85} \\
& + x^{84} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{67} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{59} + x^{55} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44}
\end{aligned}$$

$$\begin{aligned}
& + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{33} + x^{32} + x^{31} + x^{28} \\
& + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} + x^{14} + x^{13} \\
& + x^{12}, \\
p_9(x) = & x^{143} + x^{142} + x^{140} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{131} \\
& + x^{130} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{110} + x^{108} + x^{104} \\
& + x^{102} + x^{98} + x^{97} + x^{95} + x^{93} + x^{91} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} \\
& + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{46} + x^{44} + x^{42} + x^{39} + x^{35} + x^{33} + x^{32} + x^{27} + x^{26} + x^{24} \\
& + x^{23} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12} + x^9 + x^7 + x^6, \\
p_{12}(x) = & x^{142} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{134} + x^{132} + x^{131} + x^{129} \\
& + x^{127} + x^{125} + x^{123} + x^{121} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} \\
& + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} \\
& + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} \\
& + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{66} \\
& + x^{65} + x^{64} + x^{46} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} \\
& + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} \\
& + x^{18} + x^{16} + x^{15} + x^{13} + x^{11} + x^9 + x^7 + x^5 + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{145} + x^{144} + x^{141} + x^{139} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} \\
& + x^{133} + x^{132} + x^{130} + x^{128} + x^{127} + x^{124} + x^{123} + x^{121} + x^{119} \\
& + x^{116} + x^{115} + x^{114} + x^{109} + x^{108} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{101} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} \\
& + x^{84} + x^{79} + x^{76} + x^{75} + x^{73} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} \\
& + x^{59} + x^{58} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{48} + x^{47} + x^{44} \\
& + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{35} + x^{34} + x^{33}, \\
p_3(x) = & x^{145} + x^{144} + x^{143} + x^{141} + x^{140} + x^{137} + x^{136} + x^{134} + x^{132} + x^{128} \\
& + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{118} + x^{117} + x^{116} \\
& + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{103} + x^{102} + x^{101} \\
& + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} + x^{81} \\
& + x^{80} + x^{79} + x^{77} + x^{76} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} + x^{63} + x^{62} \\
& + x^{59} + x^{58} + x^{56} + x^{55} + x^{52} + x^{49} + x^{47} + x^{46} + x^{35} + x^{34} + x^{32} \\
& + x^{31} + x^{28} + x^{27} + x^{26} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18}, \\
p_6(x) = & x^{144} + x^{141} + x^{140} + x^{136} + x^{133} + x^{132} + x^{128} + x^{126} + x^{125} + x^{124}
\end{aligned}$$

$$\begin{aligned}
& + x^{123} + x^{122} + x^{120} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{109} \\
& + x^{108} + x^{106} + x^{103} + x^{102} + x^{94} + x^{92} + x^{91} + x^{89} + x^{87} + x^{85} \\
& + x^{84} + x^{83} + x^{82} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{67} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{59} + x^{55} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} \\
& + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{33} + x^{32} + x^{31} + x^{28} \\
& + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} + x^{14} + x^{13} \\
& + x^{12}, \\
p_9(x) = & x^{143} + x^{142} + x^{140} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{131} \\
& + x^{130} + x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{110} + x^{108} + x^{104} \\
& + x^{102} + x^{98} + x^{97} + x^{95} + x^{93} + x^{91} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} \\
& + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{73} + x^{72} + x^{70} + x^{68} + x^{65} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{46} + x^{44} + x^{42} + x^{39} + x^{35} + x^{33} + x^{32} + x^{27} + x^{26} + x^{24} \\
& + x^{23} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12} + x^9 + x^7 + x^6, \\
p_{12}(x) = & x^{142} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{134} + x^{132} + x^{131} + x^{129} \\
& + x^{127} + x^{125} + x^{123} + x^{121} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} \\
& + x^{112} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{100} \\
& + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} \\
& + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{75} + x^{73} + x^{71} + x^{69} + x^{67} + x^{66} \\
& + x^{65} + x^{64} + x^{46} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} \\
& + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} \\
& + x^{18} + x^{16} + x^{15} + x^{13} + x^{11} + x^9 + x^7 + x^5 + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{136} + x^{126} + x^{124} + x^{118} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} \\
& + x^{98} + x^{90} + x^{88} + x^{84} + x^{82} + x^{78} + x^{74} + x^{68} + x^{64} + x^{60} + x^{58} \\
& + x^{56} + x^{52} + x^{44} + x^{42}, \\
p_3(x) = & x^{134} + x^{132} + x^{126} + x^{122} + x^{118} + x^{112} + x^{108} + x^{104} + x^{100} + x^{98} \\
& + x^{96} + x^{88} + x^{78} + x^{76} + x^{72} + x^{66} + x^{64} + x^{60} + x^{56} + x^{50} + x^{48} \\
& + x^{42} + x^{40} + x^{26} + x^{24} + x^{22} + x^{14} + x^{12}, \\
p_6(x) = & x^{128} + x^{126} + x^{124} + x^{122} + x^{120} + x^{114} + x^{112} + x^{110} + x^{108} + x^{104} \\
& + x^{100} + x^{92} + x^{90} + x^{88} + x^{86} + x^{78} + x^{76} + x^{74} + x^{70} + x^{66} + x^{64} \\
& + x^{58} + x^{52} + x^{50} + x^{42} + x^{40} + x^{38} + x^{34} + x^{30} + x^{28} + x^{22} + x^{20} \\
& + x^{14} + x^{12} + x^6 + x^4 + x^2 + 1, \\
p_9(x) = & x^{136} + x^{134} + x^{130} + x^{124} + x^{122} + x^{120} + x^{118} + x^{114} + x^{112} + x^{108}
\end{aligned}$$

$$\begin{aligned}
& + x^{104} + x^{98} + x^{94} + x^{92} + x^{90} + x^{82} + x^{78} + x^{74} + x^{70} + x^{68} + x^{66} \\
& + x^{60} + x^{56} + x^{50} + x^{48} + x^{44} + x^{38} + x^{36} + x^{34} + x^{22} + x^{20} + x^{18} \\
& + x^{12} + x^{10} + x^6 + x^4, \\
p_{12}(x) = & x^{136} + x^{130} + x^{128} + x^{120} + x^{114} + x^{112} + x^{104} + x^{98} + x^{96} + x^{72} \\
& + x^{66} + x^{64} + x^{40} + x^{34} + x^{32} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{146} + x^{145} + x^{143} + x^{142} + x^{138} + x^{137} + x^{135} + x^{134} + x^{132} \\
& + x^{129} + x^{128} + x^{125} + x^{121} + x^{119} + x^{117} + x^{115} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{109} + x^{104} + x^{102} + x^{99} + x^{98} + x^{93} + x^{90} + x^{89} \\
& + x^{88} + x^{87} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} + x^{68} + x^{67} + x^{65} + x^{63} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{54} + x^{52} + x^{51} + x^{50} + x^{47} \\
& + x^{46} + x^{45} + x^{44} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{28} + x^{27} \\
& + x^{26} + x^{25} + x^{24}, \\
p_3(x) = & x^{146} + x^{145} + x^{143} + x^{142} + x^{138} + x^{137} + x^{136} + x^{134} + x^{133} + x^{131} \\
& + x^{130} + x^{128} + x^{127} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{115} \\
& + x^{114} + x^{112} + x^{111} + x^{110} + x^{107} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} \\
& + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{85} + x^{84} + x^{81} + x^{76} + x^{74} + x^{72} \\
& + x^{70} + x^{68} + x^{67} + x^{65} + x^{64} + x^{60} + x^{59} + x^{58} + x^{53} + x^{50} + x^{49} \\
& + x^{45} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} + x^{29} + x^{28} \\
& + x^{27} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16}, \\
p_6(x) = & x^{146} + x^{145} + x^{143} + x^{142} + x^{141} + x^{140} + x^{137} + x^{135} + x^{134} + x^{133} \\
& + x^{131} + x^{130} + x^{125} + x^{123} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} \\
& + x^{114} + x^{107} + x^{105} + x^{101} + x^{100} + x^{99} + x^{90} + x^{88} + x^{86} + x^{84} \\
& + x^{81} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{67} + x^{65} \\
& + x^{64} + x^{61} + x^{56} + x^{52} + x^{50} + x^{49} + x^{48} + x^{47} + x^{44} + x^{43} + x^{41} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} \\
& + x^{21} + x^{20} + x^{19} + x^{18} + x^{16} + x^{15} + x^{13} + x^{12} + x^{10} + x^8 + x^7 + x^5 \\
& + x^3 + x^2 + x + 1, \\
p_9(x) = & x^{146} + x^{144} + x^{143} + x^{141} + x^{139} + x^{137} + x^{135} + x^{134} + x^{133} + x^{132} \\
& + x^{130} + x^{128} + x^{127} + x^{125} + x^{123} + x^{122} + x^{121} + x^{120} + x^{114} \\
& + x^{112} + x^{111} + x^{109} + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} \\
& + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{75} \\
& + x^{74} + x^{73} + x^{72} + x^{50} + x^{48} + x^{47} + x^{45} + x^{43} + x^{41} + x^{39} + x^{38} \\
& + x^{37} + x^{36} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{16} + x^{15}
\end{aligned}$$

$$\begin{aligned}
& + x^{13} + x^{11} + x^{10} + x^9 + x^8, \\
p_{12}(x) = & x^{146} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{136} + x^{135} + x^{133} \\
& + x^{131} + x^{130} + x^{129} + x^{128} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} \\
& + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{104} + x^{103} + x^{101} \\
& + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{74} + x^{72} + x^{71} + x^{69} + x^{67} \\
& + x^{66} + x^{65} + x^{64} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} \\
& + x^{39} + x^{37} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{10} + x^8 + x^7 + x^5 \\
& + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{160} + x^{157} + x^{156} + x^{153} + x^{149} + x^{147} + x^{143} + x^{142} + x^{140} + x^{139} \\
& + x^{138} + x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{126} + x^{122} + x^{121} \\
& + x^{118} + x^{115} + x^{114} + x^{113} + x^{109} + x^{107} + x^{105} + x^{104} + x^{103} \\
& + x^{98} + x^{96} + x^{95} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{82} \\
& + x^{80} + x^{78} + x^{74} + x^{70} + x^{68} + x^{65} + x^{63} + x^{62} + x^{60} + x^{58} + x^{55} \\
& + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} + x^{38} \\
& + x^{35} + x^{34} + x^{33}, \\
p_3(x) = & x^{153} + x^{152} + x^{149} + x^{148} + x^{147} + x^{146} + x^{145} + x^{143} + x^{140} + x^{137} \\
& + x^{135} + x^{133} + x^{132} + x^{131} + x^{130} + x^{129} + x^{128} + x^{126} + x^{125} \\
& + x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{108} \\
& + x^{107} + x^{105} + x^{104} + x^{100} + x^{94} + x^{93} + x^{89} + x^{88} + x^{87} + x^{83} \\
& + x^{81} + x^{79} + x^{76} + x^{72} + x^{71} + x^{65} + x^{63} + x^{62} + x^{60} + x^{59} + x^{58} \\
& + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39} + x^{37} + x^{34} + x^{30} + x^{29} + x^{23} + x^{21} + x^{20} + x^{18}, \\
p_6(x) = & x^{154} + x^{152} + x^{150} + x^{148} + x^{142} + x^{140} + x^{138} + x^{134} + x^{132} + x^{130} \\
& + x^{124} + x^{122} + x^{118} + x^{116} + x^{114} + x^{106} + x^{104} + x^{98} + x^{92} + x^{88} \\
& + x^{84} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{52} + x^{48} + x^{46} \\
& + x^{44} + x^{36} + x^{34} + x^{30} + x^{24} + x^{22} + x^{18} + x^{16} + x^{12}, \\
p_9(x) = & x^{155} + x^{154} + x^{153} + x^{152} + x^{151} + x^{150} + x^{146} + x^{141} + x^{139} + x^{135} \\
& + x^{134} + x^{131} + x^{128} + x^{126} + x^{125} + x^{119} + x^{114} + x^{109} + x^{106} \\
& + x^{105} + x^{104} + x^{99} + x^{98} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{87} + x^{83} \\
& + x^{80} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{59} + x^{58} + x^{57} \\
& + x^{56} + x^{55} + x^{54} + x^{50} + x^{45} + x^{42} + x^{41} + x^{40} + x^{35} + x^{34} + x^{32} \\
& + x^{30} + x^{26} + x^{25} + x^{24} + x^{23} + x^{19} + x^{16} + x^{14} + x^{13} + x^{11} + x^{10} \\
& + x^9 + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{156} + x^{148} + x^{140} + x^{136} + x^{132} + x^{124} + x^{120} + x^{116} + x^{112} + x^{104} \\
& + x^{92} + x^{84} + x^{80} + x^{72} + x^{64} + x^{60} + x^{52} + x^{40} + x^{28} + x^{20} + x^{16} \\
& + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{146} + x^{145} + x^{144} + x^{143} + x^{141} + x^{133} + x^{132} + x^{131} + x^{130} + x^{128} \\
& + x^{125} + x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{114} + x^{113} \\
& + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} \\
& + x^{95} + x^{88} + x^{86} + x^{85} + x^{82} + x^{81} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} \\
& + x^{68} + x^{66} + x^{62} + x^{58} + x^{57} + x^{56} + x^{50} + x^{46} + x^{45} + x^{44} + x^{42} \\
& + x^{41} + x^{37} + x^{36} + x^{33}, \\
p_3(x) = & x^{145} + x^{144} + x^{141} + x^{140} + x^{139} + x^{138} + x^{136} + x^{135} + x^{132} + x^{131} \\
& + x^{130} + x^{127} + x^{126} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{114} \\
& + x^{111} + x^{110} + x^{107} + x^{105} + x^{103} + x^{101} + x^{97} + x^{94} + x^{93} + x^{91} \\
& + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} \\
& + x^{75} + x^{74} + x^{72} + x^{71} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} \\
& + x^{45} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24} \\
& + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_6(x) = & x^{146} + x^{144} + x^{142} + x^{140} + x^{138} + x^{136} + x^{134} + x^{132} + x^{130} + x^{118} \\
& + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{96} + x^{92} + x^{86} + x^{82} \\
& + x^{80} + x^{76} + x^{74} + x^{72} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{52} + x^{50} \\
& + x^{36} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24} + x^{20} + x^{18} + x^{12}, \\
p_9(x) = & x^{147} + x^{146} + x^{145} + x^{144} + x^{143} + x^{142} + x^{139} + x^{137} + x^{136} + x^{132} \\
& + x^{131} + x^{130} + x^{129} + x^{128} + x^{127} + x^{124} + x^{123} + x^{121} + x^{120} \\
& + x^{118} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{110} + x^{107} + x^{105} \\
& + x^{104} + x^{100} + x^{94} + x^{92} + x^{86} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} \\
& + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} \\
& + x^{43} + x^{41} + x^{40} + x^{36} + x^{30} + x^{28} + x^{22} + x^{20} + x^{19} + x^{18} + x^{17} \\
& + x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^6, \\
p_{12}(x) = & x^{148} + x^{136} + x^{132} + x^{128} + x^{124} + x^{120} + x^{112} + x^{104} + x^{96} + x^{92} \\
& + x^{76} + x^{72} + x^{68} + x^{64} + x^{52} + x^{40} + x^{32} + x^{28} + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{147} + x^{142} + x^{141} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134}$$

$$\begin{aligned}
& + x^{133} + x^{131} + x^{129} + x^{128} + x^{124} + x^{122} + x^{121} + x^{120} + x^{117} \\
& + x^{113} + x^{108} + x^{106} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} \\
& + x^{93} + x^{87} + x^{86} + x^{84} + x^{80} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{71} \\
& + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} + x^{59} + x^{55} + x^{48} + x^{46} \\
& + x^{44} + x^{42}, \\
p_3(x) = & x^{146} + x^{145} + x^{144} + x^{143} + x^{141} + x^{140} + x^{139} + x^{137} + x^{134} + x^{131} \\
& + x^{129} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{111} \\
& + x^{110} + x^{109} + x^{107} + x^{105} + x^{104} + x^{98} + x^{97} + x^{95} + x^{94} + x^{91} \\
& + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} + x^{78} + x^{77} + x^{75} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{55} + x^{54} \\
& + x^{53} + x^{52} + x^{47} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} \\
& + x^{35} + x^{31} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24} + x^{22}, \\
p_6(x) = & x^{146} + x^{145} + x^{144} + x^{143} + x^{140} + x^{139} + x^{136} + x^{134} + x^{133} + x^{132} \\
& + x^{129} + x^{126} + x^{124} + x^{120} + x^{117} + x^{115} + x^{111} + x^{110} + x^{107} \\
& + x^{106} + x^{105} + x^{103} + x^{101} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} \\
& + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{80} + x^{77} + x^{76} + x^{75} + x^{73} \\
& + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{58} + x^{57} \\
& + x^{55} + x^{54} + x^{48} + x^{45} + x^{44} + x^{38} + x^{36} + x^{35} + x^{34} + x^{31} + x^{30} \\
& + x^{28} + x^{27} + x^{24} + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{11} \\
& + x^9 + x^7 + x^5 + x^3 + x^2 + x + 1, \\
p_9(x) = & x^{146} + x^{144} + x^{143} + x^{141} + x^{139} + x^{137} + x^{135} + x^{134} + x^{133} + x^{132} \\
& + x^{130} + x^{128} + x^{127} + x^{125} + x^{123} + x^{122} + x^{121} + x^{120} + x^{114} \\
& + x^{112} + x^{111} + x^{109} + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} \\
& + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{75} \\
& + x^{74} + x^{73} + x^{72} + x^{50} + x^{48} + x^{47} + x^{45} + x^{43} + x^{41} + x^{39} + x^{38} \\
& + x^{37} + x^{36} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{16} + x^{15} \\
& + x^{13} + x^{11} + x^{10} + x^9 + x^8, \\
p_{12}(x) = & x^{146} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{136} + x^{135} + x^{133} \\
& + x^{131} + x^{130} + x^{129} + x^{128} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} \\
& + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{104} + x^{103} + x^{101} \\
& + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{74} + x^{72} + x^{71} + x^{69} + x^{67} \\
& + x^{66} + x^{65} + x^{64} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} \\
& + x^{39} + x^{37} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{10} + x^8 + x^7 + x^5 \\
& + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{147} + x^{146} + x^{145} + x^{143} + x^{142} + x^{138} + x^{137} + x^{135} + x^{134} + x^{132} \\ & + x^{129} + x^{128} + x^{125} + x^{121} + x^{119} + x^{117} + x^{115} + x^{113} + x^{112} \\ & + x^{111} + x^{110} + x^{109} + x^{104} + x^{102} + x^{99} + x^{98} + x^{93} + x^{90} + x^{89} \\ & + x^{88} + x^{87} + x^{81} + x^{80} + x^{78} + x^{75} + x^{74} + x^{68} + x^{67} + x^{65} + x^{63} \\ & + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{54} + x^{52} + x^{51} + x^{50} + x^{47} \\ & + x^{46} + x^{45} + x^{44} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{28} + x^{27} \\ & + x^{26} + x^{25} + x^{24}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{146} + x^{145} + x^{143} + x^{142} + x^{138} + x^{137} + x^{136} + x^{134} + x^{133} + x^{131} \\ & + x^{130} + x^{128} + x^{127} + x^{122} + x^{121} + x^{120} + x^{118} + x^{117} + x^{115} \\ & + x^{114} + x^{112} + x^{111} + x^{110} + x^{107} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} \\ & + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{85} + x^{84} + x^{81} + x^{76} + x^{74} + x^{72} \\ & + x^{70} + x^{68} + x^{67} + x^{65} + x^{64} + x^{60} + x^{59} + x^{58} + x^{53} + x^{50} + x^{49} \\ & + x^{45} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} + x^{29} + x^{28} \\ & + x^{27} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{146} + x^{145} + x^{143} + x^{142} + x^{141} + x^{140} + x^{137} + x^{135} + x^{134} + x^{133} \\ & + x^{131} + x^{130} + x^{125} + x^{123} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} \\ & + x^{114} + x^{107} + x^{105} + x^{101} + x^{100} + x^{99} + x^{90} + x^{88} + x^{86} + x^{84} \\ & + x^{81} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{69} + x^{67} + x^{65} \\ & + x^{64} + x^{61} + x^{56} + x^{52} + x^{50} + x^{49} + x^{48} + x^{47} + x^{44} + x^{43} + x^{41} \\ & + x^{39} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} \\ & + x^{21} + x^{20} + x^{19} + x^{18} + x^{16} + x^{15} + x^{13} + x^{12} + x^{10} + x^8 + x^7 + x^5 \\ & + x^3 + x^2 + x + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{146} + x^{144} + x^{143} + x^{141} + x^{139} + x^{137} + x^{135} + x^{134} + x^{133} + x^{132} \\ & + x^{130} + x^{128} + x^{127} + x^{125} + x^{123} + x^{122} + x^{121} + x^{120} + x^{114} \\ & + x^{112} + x^{111} + x^{109} + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} \\ & + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{75} \\ & + x^{74} + x^{73} + x^{72} + x^{50} + x^{48} + x^{47} + x^{45} + x^{43} + x^{41} + x^{39} + x^{38} \\ & + x^{37} + x^{36} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{16} + x^{15} \\ & + x^{13} + x^{11} + x^{10} + x^9 + x^8, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{146} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{136} + x^{135} + x^{133} \\ & + x^{131} + x^{130} + x^{129} + x^{128} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} \\ & + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{104} + x^{103} + x^{101} \\ & + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{74} + x^{72} + x^{71} + x^{69} + x^{67} \\ & + x^{66} + x^{65} + x^{64} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} \end{aligned}$$

$$\begin{aligned}
& + x^{39} + x^{37} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{10} + x^8 + x^7 + x^5 \\
& + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{146} + x^{145} + x^{144} + x^{143} + x^{141} + x^{133} + x^{132} + x^{131} + x^{130} + x^{128} \\
&+ x^{125} + x^{122} + x^{121} + x^{120} + x^{119} + x^{117} + x^{116} + x^{114} + x^{113} \\
&+ x^{111} + x^{110} + x^{108} + x^{107} + x^{106} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} \\
&+ x^{95} + x^{88} + x^{86} + x^{85} + x^{82} + x^{81} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} \\
&+ x^{68} + x^{66} + x^{62} + x^{58} + x^{57} + x^{56} + x^{50} + x^{46} + x^{45} + x^{44} + x^{42} \\
&+ x^{41} + x^{37} + x^{36} + x^{33}, \\
p_3(x) &= x^{145} + x^{144} + x^{141} + x^{140} + x^{139} + x^{138} + x^{136} + x^{135} + x^{132} + x^{131} \\
&+ x^{130} + x^{127} + x^{126} + x^{123} + x^{120} + x^{119} + x^{116} + x^{115} + x^{114} \\
&+ x^{111} + x^{110} + x^{107} + x^{105} + x^{103} + x^{101} + x^{97} + x^{94} + x^{93} + x^{91} \\
&+ x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} \\
&+ x^{75} + x^{74} + x^{72} + x^{71} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} \\
&+ x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} \\
&+ x^{45} + x^{40} + x^{38} + x^{36} + x^{34} + x^{33} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24} \\
&+ x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_6(x) &= x^{146} + x^{144} + x^{142} + x^{140} + x^{138} + x^{136} + x^{134} + x^{132} + x^{130} + x^{118} \\
&+ x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{96} + x^{92} + x^{86} + x^{82} \\
&+ x^{80} + x^{76} + x^{74} + x^{72} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{52} + x^{50} \\
&+ x^{36} + x^{34} + x^{32} + x^{30} + x^{26} + x^{24} + x^{20} + x^{18} + x^{12}, \\
p_9(x) &= x^{147} + x^{146} + x^{145} + x^{144} + x^{143} + x^{142} + x^{139} + x^{137} + x^{136} + x^{132} \\
&+ x^{131} + x^{130} + x^{129} + x^{128} + x^{127} + x^{124} + x^{123} + x^{121} + x^{120} \\
&+ x^{118} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{110} + x^{107} + x^{105} \\
&+ x^{104} + x^{100} + x^{94} + x^{92} + x^{86} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} \\
&+ x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} \\
&+ x^{43} + x^{41} + x^{40} + x^{36} + x^{30} + x^{28} + x^{22} + x^{20} + x^{19} + x^{18} + x^{17} \\
&+ x^{16} + x^{15} + x^{12} + x^{11} + x^9 + x^8 + x^6, \\
p_{12}(x) &= x^{148} + x^{136} + x^{132} + x^{128} + x^{124} + x^{120} + x^{112} + x^{104} + x^{96} + x^{92} \\
&+ x^{76} + x^{72} + x^{68} + x^{64} + x^{52} + x^{40} + x^{32} + x^{28} + x^{12} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{160} + x^{157} + x^{156} + x^{153} + x^{149} + x^{147} + x^{143} + x^{142} + x^{140} + x^{139} \\
&+ x^{138} + x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{126} + x^{122} + x^{121}
\end{aligned}$$

$$\begin{aligned}
& + x^{118} + x^{115} + x^{114} + x^{113} + x^{109} + x^{107} + x^{105} + x^{104} + x^{103} \\
& + x^{98} + x^{96} + x^{95} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{82} \\
& + x^{80} + x^{78} + x^{74} + x^{70} + x^{68} + x^{65} + x^{63} + x^{62} + x^{60} + x^{58} + x^{55} \\
& + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} + x^{38} \\
& + x^{35} + x^{34} + x^{33}, \\
p_3(x) = & x^{153} + x^{152} + x^{149} + x^{148} + x^{147} + x^{146} + x^{145} + x^{143} + x^{140} + x^{137} \\
& + x^{135} + x^{133} + x^{132} + x^{131} + x^{130} + x^{129} + x^{128} + x^{126} + x^{125} \\
& + x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{112} + x^{108} \\
& + x^{107} + x^{105} + x^{104} + x^{100} + x^{94} + x^{93} + x^{89} + x^{88} + x^{87} + x^{83} \\
& + x^{81} + x^{79} + x^{76} + x^{72} + x^{71} + x^{65} + x^{63} + x^{62} + x^{60} + x^{59} + x^{58} \\
& + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39} + x^{37} + x^{34} + x^{30} + x^{29} + x^{23} + x^{21} + x^{20} + x^{18}, \\
p_6(x) = & x^{154} + x^{152} + x^{150} + x^{148} + x^{142} + x^{140} + x^{138} + x^{134} + x^{132} + x^{130} \\
& + x^{124} + x^{122} + x^{118} + x^{116} + x^{114} + x^{106} + x^{104} + x^{98} + x^{92} + x^{88} \\
& + x^{84} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{52} + x^{48} + x^{46} \\
& + x^{44} + x^{36} + x^{34} + x^{30} + x^{24} + x^{22} + x^{18} + x^{16} + x^{12}, \\
p_9(x) = & x^{155} + x^{154} + x^{153} + x^{152} + x^{151} + x^{150} + x^{146} + x^{141} + x^{139} + x^{135} \\
& + x^{134} + x^{131} + x^{128} + x^{126} + x^{125} + x^{119} + x^{114} + x^{109} + x^{106} \\
& + x^{105} + x^{104} + x^{99} + x^{98} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{87} + x^{83} \\
& + x^{80} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{59} + x^{58} + x^{57} \\
& + x^{56} + x^{55} + x^{54} + x^{50} + x^{45} + x^{42} + x^{41} + x^{40} + x^{35} + x^{34} + x^{32} \\
& + x^{30} + x^{26} + x^{25} + x^{24} + x^{23} + x^{19} + x^{16} + x^{14} + x^{13} + x^{11} + x^{10} \\
& + x^9 + x^8 + x^6, \\
p_{12}(x) = & x^{156} + x^{148} + x^{140} + x^{136} + x^{132} + x^{124} + x^{120} + x^{116} + x^{112} + x^{104} \\
& + x^{92} + x^{84} + x^{80} + x^{72} + x^{64} + x^{60} + x^{52} + x^{40} + x^{28} + x^{20} + x^{16} \\
& + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{142} + x^{141} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} \\
& + x^{133} + x^{131} + x^{129} + x^{128} + x^{124} + x^{122} + x^{121} + x^{120} + x^{117} \\
& + x^{113} + x^{108} + x^{106} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} \\
& + x^{93} + x^{87} + x^{86} + x^{84} + x^{80} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{71} \\
& + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{61} + x^{59} + x^{55} + x^{48} + x^{46} \\
& + x^{44} + x^{42}, \\
p_3(x) = & x^{146} + x^{145} + x^{144} + x^{143} + x^{141} + x^{140} + x^{139} + x^{137} + x^{134} + x^{131}
\end{aligned}$$

$$\begin{aligned}
& + x^{129} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{111} \\
& + x^{110} + x^{109} + x^{107} + x^{105} + x^{104} + x^{98} + x^{97} + x^{95} + x^{94} + x^{91} \\
& + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} + x^{78} + x^{77} + x^{75} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{55} + x^{54} \\
& + x^{53} + x^{52} + x^{47} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} \\
& + x^{35} + x^{31} + x^{30} + x^{29} + x^{27} + x^{25} + x^{24} + x^{22}, \\
p_6(x) = & x^{146} + x^{145} + x^{144} + x^{143} + x^{140} + x^{139} + x^{136} + x^{134} + x^{133} + x^{132} \\
& + x^{129} + x^{126} + x^{124} + x^{120} + x^{117} + x^{115} + x^{111} + x^{110} + x^{107} \\
& + x^{106} + x^{105} + x^{103} + x^{101} + x^{98} + x^{97} + x^{96} + x^{94} + x^{92} + x^{91} \\
& + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{80} + x^{77} + x^{76} + x^{75} + x^{73} \\
& + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{58} + x^{57} \\
& + x^{55} + x^{54} + x^{48} + x^{45} + x^{44} + x^{38} + x^{36} + x^{35} + x^{34} + x^{31} + x^{30} \\
& + x^{28} + x^{27} + x^{24} + x^{20} + x^{19} + x^{18} + x^{17} + x^{15} + x^{14} + x^{13} + x^{11} \\
& + x^9 + x^7 + x^5 + x^3 + x^2 + x + 1, \\
p_9(x) = & x^{146} + x^{144} + x^{143} + x^{141} + x^{139} + x^{137} + x^{135} + x^{134} + x^{133} + x^{132} \\
& + x^{130} + x^{128} + x^{127} + x^{125} + x^{123} + x^{122} + x^{121} + x^{120} + x^{114} \\
& + x^{112} + x^{111} + x^{109} + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} \\
& + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{75} \\
& + x^{74} + x^{73} + x^{72} + x^{50} + x^{48} + x^{47} + x^{45} + x^{43} + x^{41} + x^{39} + x^{38} \\
& + x^{37} + x^{36} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{16} + x^{15} \\
& + x^{13} + x^{11} + x^{10} + x^9 + x^8, \\
p_{12}(x) = & x^{146} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{136} + x^{135} + x^{133} \\
& + x^{131} + x^{130} + x^{129} + x^{128} + x^{122} + x^{120} + x^{119} + x^{117} + x^{115} \\
& + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{104} + x^{103} + x^{101} \\
& + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{74} + x^{72} + x^{71} + x^{69} + x^{67} \\
& + x^{66} + x^{65} + x^{64} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} \\
& + x^{39} + x^{37} + x^{35} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{10} + x^8 + x^7 + x^5 \\
& + x^3 + x^2 + x + 1,
\end{aligned}$$

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

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]	2404	[3455, 3620]	4808	[663, 5881]	7212	[7699, 1232]
1	[3, 4]	2405	[3621, 3622]	4809	[5882, 3593]	7213	[819, 7700]
2	[5, 6]	2406	[1473, 3623]	4810	[4297, 4168]	7214	[7701, 2285]

3	[7, 8]	2407	[3624, 549]	4811	[3497, 1602]	7215	[7702, 4602]
4	[9, 10]	2408	[1866, 1500]	4812	[1618, 2174]	7216	[7703, 1273]
5	[11, 12]	2409	[3625, 3626]	4813	[5883, 1902]	7217	[7704, 2882]
6	[13, 14]	2410	[3627, 617]	4814	[794, 1780]	7218	[7139, 7705]
7	[15, 16]	2411	[3628, 1615]	4815	[5884, 1848]	7219	[7706, 7707]
8	[17, 18]	2412	[3436, 1905]	4816	[5885, 3730]	7220	[2915, 2976]
9	[19, 20]	2413	[3629, 1634]	4817	[1970, 3460]	7221	[7708, 5249]
10	[21, 22]	2414	[1747, 2181]	4818	[5886, 5887]	7222	[2357, 7709]
11	[23, 24]	2415	[1512, 768]	4819	[5888, 655]	7223	[7710, 2806]
12	[25, 26]	2416	[44, 3630]	4820	[5889, 5890]	7224	[7711, 4987]
13	[27, 28]	2417	[3631, 552]	4821	[1746, 5891]	7225	[7712, 2726]
14	[29, 30]	2418	[1694, 3632]	4822	[5892, 199]	7226	[7713, 1227]
15	[31, 32]	2419	[159, 3519]	4823	[3933, 716]	7227	[6470, 7714]
16	[33, 34]	2420	[3633, 1864]	4824	[1844, 2200]	7228	[7715, 1073]
17	[35, 36]	2421	[3634, 3635]	4825	[5893, 4368]	7229	[7716, 4683]
18	[37, 38]	2422	[3636, 552]	4826	[5894, 5895]	7230	[7717, 3176]
19	[39, 38]	2423	[3637, 3638]	4827	[2040, 3992]	7231	[7718, 7719]
20	[40, 41]	2424	[535, 1723]	4828	[5896, 2221]	7232	[7720, 247]
21	[42, 43]	2425	[2174, 3639]	4829	[5897, 5832]	7233	[7721, 4601]
22	[44, 45]	2426	[3640, 3641]	4830	[5898, 5899]	7234	[7722, 3077]
23	[46, 47]	2427	[3642, 3543]	4831	[5900, 1609]	7235	[881, 3288]
24	[48, 49]	2428	[3573, 2093]	4832	[5901, 692]	7236	[3387, 7723]
25	[50, 51]	2429	[199, 3643]	4833	[5902, 1922]	7237	[7724, 3249]
26	[52, 53]	2430	[3644, 1700]	4834	[5903, 526]	7238	[7725, 7726]
27	[54, 55]	2431	[2011, 571]	4835	[5728, 1932]	7239	[7727, 2859]
28	[56, 57]	2432	[2136, 1548]	4836	[5904, 5890]	7240	[7728, 7018]
29	[58, 59]	2433	[3645, 3646]	4837	[5905, 4189]	7241	[339, 7729]
30	[60, 61]	2434	[3647, 2163]	4838	[5906, 1452]	7242	[7730, 1360]
31	[62, 63]	2435	[1783, 1451]	4839	[5907, 1942]	7243	[7731, 2338]
32	[64, 65]	2436	[1670, 3648]	4840	[1534, 1490]	7244	[7732, 7733]
33	[66, 67]	2437	[2122, 3649]	4841	[5908, 1454]	7245	[7734, 2858]
34	[68, 69]	2438	[1535, 1876]	4842	[5909, 4140]	7246	[7735, 7736]
35	[70, 71]	2439	[3650, 3485]	4843	[2148, 2025]	7247	[7737, 1096]
36	[72, 73]	2440	[3651, 1882]	4844	[5910, 4035]	7248	[7738, 5534]
37	[74, 75]	2441	[3652, 451]	4845	[5668, 5911]	7249	[7739, 7740]
38	[76, 77]	2442	[2077, 3653]	4846	[5912, 3529]	7250	[7741, 6972]
39	[78, 79]	2443	[3654, 1985]	4847	[5913, 3604]	7251	[7742, 5555]
40	[80, 81]	2444	[475, 3655]	4848	[2056, 801]	7252	[7743, 851]
41	[82, 83]	2445	[3656, 1945]	4849	[1821, 3663]	7253	[6834, 7744]
42	[84, 85]	2446	[3657, 3658]	4850	[5914, 581]	7254	[7745, 5493]
43	[86, 87]	2447	[3659, 3660]	4851	[5915, 4448]	7255	[7746, 7747]
44	[88, 89]	2448	[53, 479]	4852	[506, 760]	7256	[7748, 5071]
45	[90, 91]	2449	[1874, 3661]	4853	[5916, 800]	7257	[7749, 1260]
46	[6, 92]	2450	[3662, 1634]	4854	[614, 1698]	7258	[7750, 994]

47	[93, 94]	2451	[3579, 3663]	4855	[5917, 3723]	7259	[7728, 1050]
48	[95, 96]	2452	[3477, 3664]	4856	[1900, 1933]	7260	[7751, 3369]
49	[97, 98]	2453	[3665, 1964]	4857	[5918, 5919]	7261	[2949, 7752]
50	[99, 100]	2454	[3544, 1505]	4858	[5920, 3641]	7262	[4633, 3176]
51	[101, 102]	2455	[3666, 3593]	4859	[5921, 552]	7263	[7078, 7753]
52	[103, 104]	2456	[3667, 3668]	4860	[4189, 1813]	7264	[3174, 4932]
53	[105, 106]	2457	[3669, 3480]	4861	[446, 530]	7265	[7754, 5645]
54	[5, 107]	2458	[3670, 614]	4862	[5922, 5923]	7266	[7755, 7756]
55	[108, 109]	2459	[2125, 3520]	4863	[5924, 2008]	7267	[7757, 7758]
56	[110, 111]	2460	[3671, 1788]	4864	[5925, 3464]	7268	[7759, 114]
57	[112, 113]	2461	[1539, 1985]	4865	[5824, 4351]	7269	[7760, 4533]
58	[114, 115]	2462	[3672, 1451]	4866	[5926, 5927]	7270	[7761, 7762]
59	[116, 117]	2463	[3673, 3674]	4867	[767, 1512]	7271	[7763, 2515]
60	[118, 119]	2464	[3675, 3676]	4868	[5928, 4095]	7272	[7764, 4677]
61	[120, 121]	2465	[3677, 3501]	4869	[5929, 1949]	7273	[7019, 7127]
62	[122, 123]	2466	[3678, 182]	4870	[5930, 5931]	7274	[2865, 1201]
63	[124, 125]	2467	[1595, 1843]	4871	[5932, 1972]	7275	[2537, 7765]
64	[126, 127]	2468	[3679, 201]	4872	[5933, 135]	7276	[7766, 1037]
65	[128, 129]	2469	[715, 3680]	4873	[5934, 511]	7277	[2545, 4989]
66	[130, 131]	2470	[1628, 784]	4874	[4314, 741]	7278	[7767, 5406]
67	[132, 133]	2471	[3681, 1606]	4875	[5935, 1668]	7279	[7768, 5481]
68	[134, 34]	2472	[3682, 158]	4876	[3690, 2209]	7280	[7769, 3300]
69	[135, 136]	2473	[691, 3683]	4877	[3821, 1914]	7281	[7770, 5583]
70	[137, 138]	2474	[3684, 3606]	4878	[5936, 1700]	7282	[7771, 6856]
71	[139, 140]	2475	[3685, 1606]	4879	[1991, 2136]	7283	[7772, 6677]
72	[141, 142]	2476	[3686, 3687]	4880	[3988, 4224]	7284	[7773, 6683]
73	[143, 144]	2477	[3688, 3689]	4881	[5937, 5938]	7285	[2306, 7774]
74	[145, 10]	2478	[3690, 1903]	4882	[5939, 657]	7286	[5016, 2716]
75	[146, 147]	2479	[1694, 3691]	4883	[5940, 4121]	7287	[7775, 972]
76	[148, 149]	2480	[3692, 486]	4884	[3626, 1528]	7288	[7776, 2389]
77	[150, 151]	2481	[3621, 496]	4885	[5941, 2019]	7289	[7777, 7778]
78	[152, 153]	2482	[1708, 3693]	4886	[3809, 2002]	7290	[3014, 1245]
79	[154, 155]	2483	[1866, 473]	4887	[5942, 1615]	7291	[2251, 3084]
80	[156, 157]	2484	[3694, 1741]	4888	[5943, 651]	7292	[7779, 1440]
81	[158, 159]	2485	[750, 1919]	4889	[132, 3448]	7293	[7780, 278]
82	[160, 161]	2486	[3695, 3567]	4890	[5944, 444]	7294	[7781, 4961]
83	[162, 163]	2487	[642, 3448]	4891	[4342, 5945]	7295	[7782, 4727]
84	[164, 165]	2488	[3696, 565]	4892	[5946, 1576]	7296	[7783, 5319]
85	[43, 166]	2489	[135, 3697]	4893	[1860, 144]	7297	[3084, 7784]
86	[167, 129]	2490	[3698, 3699]	4894	[5947, 2111]	7298	[6631, 390]
87	[168, 169]	2491	[3700, 3701]	4895	[5948, 5949]	7299	[6996, 1336]
88	[170, 171]	2492	[3702, 3703]	4896	[5820, 4249]	7300	[4963, 6607]
89	[172, 173]	2493	[3704, 3705]	4897	[5950, 3508]	7301	[1228, 5383]
90	[174, 175]	2494	[3706, 3707]	4898	[3698, 3653]	7302	[7785, 6626]

91	[176, 177]	2495	[3708, 3480]	4899	[1770, 5951]	7303	[7786, 6946]
92	[12, 178]	2496	[3709, 1865]	4900	[5952, 3880]	7304	[2827, 368]
93	[179, 180]	2497	[3432, 3710]	4901	[5953, 1537]	7305	[7787, 965]
94	[181, 182]	2498	[3711, 2004]	4902	[5954, 5955]	7306	[7788, 926]
95	[183, 184]	2499	[3712, 3713]	4903	[5763, 4027]	7307	[7789, 2516]
96	[185, 186]	2500	[3714, 3715]	4904	[5956, 1633]	7308	[7790, 2997]
97	[187, 188]	2501	[3716, 3717]	4905	[5957, 2074]	7309	[7791, 1210]
98	[189, 190]	2502	[3718, 2156]	4906	[5958, 1546]	7310	[7792, 392]
99	[191, 192]	2503	[1819, 3719]	4907	[618, 5959]	7311	[911, 416]
100	[193, 194]	2504	[3720, 1602]	4908	[5960, 496]	7312	[7793, 7794]
101	[195, 36]	2505	[1830, 145]	4909	[1548, 122]	7313	[7795, 2478]
102	[196, 197]	2506	[3721, 1645]	4910	[5961, 5667]	7314	[7796, 2928]
103	[198, 199]	2507	[1714, 2204]	4911	[645, 3847]	7315	[7797, 4500]
104	[200, 201]	2508	[3722, 1556]	4912	[3456, 5723]	7316	[7798, 2276]
105	[202, 203]	2509	[3723, 3724]	4913	[5962, 4167]	7317	[7799, 1079]
106	[204, 205]	2510	[3725, 3649]	4914	[5963, 3924]	7318	[7800, 2490]
107	[206, 207]	2511	[3726, 701]	4915	[5964, 1606]	7319	[336, 7801]
108	[208, 49]	2512	[3727, 1799]	4916	[4109, 5965]	7320	[7802, 3406]
109	[145, 209]	2513	[3472, 1691]	4917	[5966, 5967]	7321	[7803, 5147]
110	[210, 211]	2514	[3728, 549]	4918	[3915, 2139]	7322	[7804, 433]
111	[212, 213]	2515	[3615, 155]	4919	[5968, 4364]	7323	[7805, 7806]
112	[214, 159]	2516	[3729, 1448]	4920	[1662, 4148]	7324	[7807, 6589]
113	[215, 216]	2517	[3730, 1670]	4921	[5969, 2201]	7325	[7808, 4953]
114	[217, 218]	2518	[3731, 222]	4922	[3478, 1836]	7326	[2947, 6607]
115	[219, 220]	2519	[3732, 1511]	4923	[5970, 4153]	7327	[7809, 2898]
116	[221, 168]	2520	[3733, 554]	4924	[5971, 780]	7328	[7810, 2342]
117	[222, 223]	2521	[1747, 1974]	4925	[5972, 1930]	7329	[7811, 97]
118	[224, 225]	2522	[3734, 3735]	4926	[3441, 2073]	7330	[7812, 5054]
119	[226, 227]	2523	[1768, 689]	4927	[1845, 5973]	7331	[4771, 7813]
120	[228, 229]	2524	[3736, 1489]	4928	[5974, 1895]	7332	[5119, 3071]
121	[230, 231]	2525	[3737, 1938]	4929	[5975, 3772]	7333	[7814, 7815]
122	[232, 233]	2526	[3547, 3635]	4930	[5976, 2193]	7334	[7816, 1427]
123	[234, 235]	2527	[3738, 733]	4931	[3588, 5977]	7335	[7817, 318]
124	[236, 237]	2528	[1558, 3739]	4932	[684, 788]	7336	[4894, 7818]
125	[238, 239]	2529	[1752, 2198]	4933	[5978, 1935]	7337	[7819, 394]
126	[240, 241]	2530	[1878, 1623]	4934	[5979, 3788]	7338	[7820, 1066]
127	[242, 243]	2531	[3465, 3480]	4935	[4280, 4426]	7339	[5194, 6687]
128	[244, 245]	2532	[3740, 220]	4936	[2095, 1873]	7340	[6683, 3406]
129	[246, 247]	2533	[739, 3741]	4937	[161, 1925]	7341	[1019, 5119]
130	[248, 249]	2534	[3742, 536]	4938	[3815, 4044]	7342	[4729, 5427]
131	[250, 251]	2535	[564, 1944]	4939	[5980, 1527]	7343	[7821, 2328]
132	[252, 253]	2536	[3743, 529]	4940	[5981, 5982]	7344	[7822, 2364]
133	[254, 255]	2537	[3744, 1883]	4941	[3685, 4206]	7345	[7823, 7824]
134	[256, 257]	2538	[3555, 3585]	4942	[4109, 5983]	7346	[7825, 6742]

135	[258, 259]	2539	[3745, 3746]	4943	[5984, 5766]	7347	[7826, 5110]
136	[260, 261]	2540	[1916, 716]	4944	[5985, 3561]	7348	[7827, 237]
137	[262, 263]	2541	[3747, 3748]	4945	[2178, 5986]	7349	[7828, 258]
138	[264, 265]	2542	[3749, 3750]	4946	[5902, 563]	7350	[7829, 7830]
139	[266, 267]	2543	[3751, 668]	4947	[123, 3817]	7351	[7831, 2565]
140	[268, 269]	2544	[3505, 1713]	4948	[1522, 2214]	7352	[3043, 886]
141	[270, 271]	2545	[3752, 487]	4949	[5987, 1454]	7353	[2940, 903]
142	[272, 273]	2546	[2086, 1756]	4950	[1786, 486]	7354	[7832, 2841]
143	[274, 275]	2547	[3753, 1985]	4951	[3831, 5988]	7355	[1402, 5140]
144	[276, 277]	2548	[456, 3754]	4952	[3929, 2074]	7356	[3263, 7833]
145	[278, 279]	2549	[3755, 1960]	4953	[1502, 5989]	7357	[5039, 4481]
146	[101, 280]	2550	[3756, 3611]	4954	[5990, 1478]	7358	[7834, 820]
147	[281, 282]	2551	[3757, 3758]	4955	[49, 5991]	7359	[7835, 901]
148	[283, 284]	2552	[3759, 590]	4956	[3777, 1557]	7360	[7836, 4847]
149	[285, 286]	2553	[3760, 658]	4957	[1680, 1904]	7361	[1003, 6694]
150	[287, 288]	2554	[3761, 794]	4958	[5992, 189]	7362	[7837, 7838]
151	[289, 290]	2555	[3762, 3763]	4959	[5906, 2087]	7363	[7839, 4810]
152	[291, 292]	2556	[1944, 3764]	4960	[5993, 1884]	7364	[5283, 3280]
153	[293, 294]	2557	[659, 590]	4961	[3557, 1839]	7365	[2376, 4733]
154	[295, 296]	2558	[734, 3765]	4962	[5994, 457]	7366	[7840, 6807]
155	[297, 298]	2559	[3766, 764]	4963	[5995, 2160]	7367	[2814, 2684]
156	[299, 300]	2560	[455, 543]	4964	[742, 5996]	7368	[7841, 6542]
157	[301, 302]	2561	[3767, 1726]	4965	[5997, 3681]	7369	[7842, 1074]
158	[303, 304]	2562	[3768, 711]	4966	[5998, 3829]	7370	[4989, 6851]
159	[305, 306]	2563	[3769, 3770]	4967	[3511, 1670]	7371	[7843, 4557]
160	[307, 308]	2564	[3771, 1997]	4968	[5999, 1700]	7372	[7844, 5454]
161	[309, 310]	2565	[1768, 3570]	4969	[3612, 3827]	7373	[2599, 5287]
162	[311, 312]	2566	[3772, 3773]	4970	[6000, 588]	7374	[7845, 4976]
163	[313, 314]	2567	[1519, 2163]	4971	[5960, 3622]	7375	[7846, 2577]
164	[315, 316]	2568	[3774, 1554]	4972	[6001, 1762]	7376	[2573, 2345]
165	[317, 318]	2569	[2066, 612]	4973	[6002, 2177]	7377	[7847, 6730]
166	[319, 320]	2570	[3775, 3776]	4974	[4173, 1623]	7378	[2465, 2338]
167	[321, 322]	2571	[3777, 3778]	4975	[6003, 1552]	7379	[4868, 4894]
168	[247, 323]	2572	[3779, 1824]	4976	[4205, 6004]	7380	[7848, 357]
169	[324, 325]	2573	[3584, 3556]	4977	[6005, 595]	7381	[7849, 7850]
170	[326, 327]	2574	[3780, 3781]	4978	[566, 6004]	7382	[7851, 4623]
171	[328, 329]	2575	[219, 703]	4979	[6006, 5850]	7383	[1255, 7852]
172	[330, 331]	2576	[721, 2183]	4980	[6007, 3696]	7384	[5345, 7853]
173	[332, 333]	2577	[3782, 1536]	4981	[5891, 1974]	7385	[7854, 4981]
174	[334, 335]	2578	[3783, 3784]	4982	[6008, 3598]	7386	[7855, 7856]
175	[336, 337]	2579	[3785, 3713]	4983	[2184, 3883]	7387	[2577, 1250]
176	[338, 339]	2580	[1818, 756]	4984	[4062, 4026]	7388	[7857, 7858]
177	[340, 341]	2581	[3786, 2091]	4985	[6009, 3508]	7389	[275, 5411]
178	[24, 342]	2582	[3669, 3787]	4986	[5901, 6010]	7390	[4723, 1214]

179	[343, 344]	2583	[1943, 565]	4987	[6011, 1974]	7391	[3288, 2970]
180	[345, 346]	2584	[3788, 1444]	4988	[2109, 3877]	7392	[7859, 5621]
181	[347, 348]	2585	[3789, 2091]	4989	[6012, 2018]	7393	[4835, 2256]
182	[349, 350]	2586	[3790, 529]	4990	[487, 6013]	7394	[241, 7694]
183	[351, 352]	2587	[32, 3463]	4991	[6014, 6015]	7395	[956, 5218]
184	[353, 354]	2588	[1621, 175]	4992	[3972, 6016]	7396	[7860, 6949]
185	[355, 356]	2589	[14, 563]	4993	[6017, 6018]	7397	[2732, 7861]
186	[357, 358]	2590	[3791, 3447]	4994	[4097, 1950]	7398	[7862, 7863]
187	[359, 360]	2591	[3792, 3793]	4995	[5688, 5805]	7399	[7864, 2719]
188	[361, 362]	2592	[3794, 230]	4996	[6019, 1548]	7400	[4893, 5332]
189	[363, 364]	2593	[3795, 1505]	4997	[6020, 230]	7401	[4957, 6961]
190	[365, 366]	2594	[3796, 1902]	4998	[6021, 1574]	7402	[7865, 7866]
191	[367, 368]	2595	[3797, 1640]	4999	[1503, 5794]	7403	[7867, 2547]
192	[369, 370]	2596	[2029, 3798]	5000	[6022, 1621]	7404	[7868, 2893]
193	[371, 372]	2597	[3799, 1810]	5001	[1723, 2080]	7405	[7869, 5279]
194	[373, 374]	2598	[3800, 1794]	5002	[487, 1715]	7406	[7870, 3183]
195	[375, 376]	2599	[2224, 553]	5003	[6023, 4091]	7407	[7871, 7872]
196	[377, 378]	2600	[3801, 595]	5004	[2045, 2229]	7408	[7873, 7874]
197	[379, 380]	2601	[1805, 1629]	5005	[1705, 1975]	7409	[7875, 7876]
198	[381, 382]	2602	[2165, 3703]	5006	[6024, 4390]	7410	[5246, 5551]
199	[383, 384]	2603	[1791, 491]	5007	[6025, 674]	7411	[7877, 7082]
200	[385, 80]	2604	[3802, 3803]	5008	[730, 3764]	7412	[7878, 7879]
201	[386, 387]	2605	[667, 3804]	5009	[3877, 678]	7413	[2639, 7880]
202	[388, 389]	2606	[3805, 687]	5010	[6026, 794]	7414	[2838, 7881]
203	[390, 391]	2607	[3806, 3807]	5011	[2205, 5820]	7415	[1055, 387]
204	[392, 393]	2608	[3808, 1531]	5012	[4054, 1933]	7416	[7882, 3359]
205	[394, 395]	2609	[3433, 1729]	5013	[4226, 1611]	7417	[5157, 1094]
206	[396, 397]	2610	[3809, 616]	5014	[6027, 4142]	7418	[7883, 3365]
207	[398, 399]	2611	[1480, 1546]	5015	[6028, 6029]	7419	[7884, 1379]
208	[297, 400]	2612	[3810, 2070]	5016	[6030, 678]	7420	[3175, 6906]
209	[401, 402]	2613	[3635, 3811]	5017	[6031, 6032]	7421	[7885, 2867]
210	[403, 404]	2614	[3812, 3813]	5018	[6033, 1921]	7422	[7886, 5233]
211	[405, 241]	2615	[3609, 3814]	5019	[5780, 3587]	7423	[3000, 828]
212	[406, 407]	2616	[3815, 3816]	5020	[5811, 3454]	7424	[6568, 7887]
213	[408, 409]	2617	[638, 3817]	5021	[6034, 3588]	7425	[255, 5255]
214	[404, 410]	2618	[3818, 617]	5022	[6035, 3741]	7426	[999, 2443]
215	[411, 313]	2619	[3819, 757]	5023	[1928, 2151]	7427	[7888, 2835]
216	[412, 413]	2620	[3820, 1775]	5024	[6036, 3513]	7428	[7889, 1090]
217	[414, 415]	2621	[3821, 3822]	5025	[4160, 3867]	7429	[7890, 1225]
218	[416, 417]	2622	[3823, 1680]	5026	[6037, 1755]	7430	[7891, 3272]
219	[418, 419]	2623	[1596, 792]	5027	[3899, 6038]	7431	[7892, 252]
220	[310, 420]	2624	[3824, 709]	5028	[6039, 489]	7432	[7893, 992]
221	[421, 422]	2625	[1990, 1702]	5029	[6040, 5688]	7433	[2920, 7894]
222	[423, 424]	2626	[3825, 539]	5030	[6041, 1997]	7434	[7895, 3391]

223	[425, 426]	2627	[3826, 3827]	5031	[4207, 3460]	7435	[7896, 1212]
224	[427, 428]	2628	[3828, 1504]	5032	[6042, 6043]	7436	[7897, 7120]
225	[429, 430]	2629	[3829, 1800]	5033	[6044, 6045]	7437	[7898, 6924]
226	[431, 432]	2630	[3830, 1951]	5034	[4067, 4011]	7438	[6722, 2996]
227	[433, 434]	2631	[3576, 2212]	5035	[6046, 1911]	7439	[2301, 7899]
228	[435, 436]	2632	[3831, 715]	5036	[6047, 1704]	7440	[4688, 5287]
229	[437, 438]	2633	[1542, 1684]	5037	[4042, 6048]	7441	[7900, 2468]
230	[439, 440]	2634	[3832, 545]	5038	[6049, 4399]	7442	[7901, 1194]
231	[441, 442]	2635	[3704, 3833]	5039	[4390, 1907]	7443	[1247, 6592]
232	[443, 444]	2636	[3834, 3835]	5040	[6050, 735]	7444	[7902, 2589]
233	[445, 446]	2637	[3836, 3837]	5041	[6051, 3872]	7445	[7903, 5222]
234	[447, 448]	2638	[3838, 1655]	5042	[4196, 1805]	7446	[7904, 2489]
235	[449, 449]	2639	[3703, 1714]	5043	[5923, 4330]	7447	[7905, 7906]
236	[450, 451]	2640	[3839, 10]	5044	[6052, 3713]	7448	[5091, 7907]
237	[452, 453]	2641	[12, 1456]	5045	[6053, 5802]	7449	[7908, 2662]
238	[454, 455]	2642	[481, 1791]	5046	[6054, 6055]	7450	[1110, 7880]
239	[456, 457]	2643	[3840, 3841]	5047	[6056, 1556]	7451	[6525, 1349]
240	[458, 459]	2644	[3842, 1721]	5048	[444, 2150]	7452	[7909, 7910]
241	[460, 461]	2645	[519, 3843]	5049	[1607, 494]	7453	[2262, 233]
242	[462, 463]	2646	[1868, 3844]	5050	[6057, 6058]	7454	[3067, 7906]
243	[464, 465]	2647	[3845, 648]	5051	[5964, 4206]	7455	[7911, 7012]
244	[466, 467]	2648	[3846, 3689]	5052	[2044, 4289]	7456	[7912, 2725]
245	[468, 469]	2649	[1669, 3847]	5053	[6059, 3435]	7457	[7913, 1040]
246	[129, 470]	2650	[3848, 1810]	5054	[4465, 2151]	7458	[7914, 4909]
247	[471, 167]	2651	[3849, 543]	5055	[6060, 2037]	7459	[7915, 6837]
248	[472, 473]	2652	[2138, 3703]	5056	[6061, 477]	7460	[7916, 336]
249	[474, 475]	2653	[3850, 60]	5057	[6062, 5687]	7461	[7917, 6729]
250	[476, 477]	2654	[3851, 733]	5058	[4214, 6063]	7462	[2254, 7918]
251	[478, 479]	2655	[591, 3827]	5059	[4189, 2006]	7463	[7919, 4790]
252	[480, 481]	2656	[3852, 475]	5060	[565, 3764]	7464	[7920, 331]
253	[482, 483]	2657	[1663, 1771]	5061	[6064, 3869]	7465	[5132, 7881]
254	[484, 485]	2658	[1733, 3853]	5062	[6065, 644]	7466	[7921, 2704]
255	[486, 487]	2659	[3854, 536]	5063	[5666, 2209]	7467	[1280, 2700]
256	[488, 489]	2660	[3855, 561]	5064	[457, 6066]	7468	[7922, 7923]
257	[490, 491]	2661	[1828, 3719]	5065	[2063, 1874]	7469	[294, 1084]
258	[492, 155]	2662	[3856, 1976]	5066	[1470, 1577]	7470	[7924, 1354]
259	[493, 494]	2663	[2032, 3857]	5067	[34, 2066]	7471	[1060, 2419]
260	[495, 496]	2664	[3858, 3721]	5068	[3463, 6004]	7472	[7925, 5243]
261	[497, 498]	2665	[3859, 1576]	5069	[6067, 3681]	7473	[6962, 416]
262	[499, 500]	2666	[203, 1950]	5070	[6068, 4257]	7474	[7926, 859]
263	[501, 502]	2667	[1625, 1554]	5071	[3766, 4129]	7475	[7927, 5612]
264	[503, 186]	2668	[3860, 189]	5072	[6069, 724]	7476	[7928, 3193]
265	[504, 505]	2669	[1460, 516]	5073	[6070, 1796]	7477	[7929, 2888]
266	[506, 507]	2670	[1619, 2175]	5074	[6071, 5766]	7478	[2466, 7930]

267	[508, 509]	2671	[1848, 3861]	5075	[3874, 1722]	7479	[7931, 5640]
268	[510, 444]	2672	[541, 3602]	5076	[5731, 6072]	7480	[6796, 7932]
269	[511, 512]	2673	[3862, 446]	5077	[6073, 6074]	7481	[7933, 4642]
270	[513, 514]	2674	[496, 3863]	5078	[4199, 682]	7482	[7934, 7935]
271	[515, 516]	2675	[1738, 1512]	5079	[6075, 1740]	7483	[6631, 7015]
272	[517, 518]	2676	[3864, 3865]	5080	[4118, 1659]	7484	[2324, 7936]
273	[519, 520]	2677	[589, 660]	5081	[6076, 1891]	7485	[7937, 1095]
274	[521, 522]	2678	[1545, 1481]	5082	[6077, 1922]	7486	[1178, 4892]
275	[523, 524]	2679	[3866, 3867]	5083	[4113, 6078]	7487	[7938, 6792]
276	[525, 526]	2680	[3868, 3869]	5084	[6079, 1613]	7488	[7939, 2849]
277	[158, 527]	2681	[3870, 10]	5085	[4079, 1790]	7489	[2513, 975]
278	[528, 529]	2682	[3871, 3872]	5086	[6080, 3522]	7490	[7940, 5141]
279	[530, 531]	2683	[2022, 3873]	5087	[1693, 5741]	7491	[7941, 1091]
280	[532, 533]	2684	[3874, 535]	5088	[6081, 3660]	7492	[7942, 7943]
281	[534, 535]	2685	[2102, 2031]	5089	[6082, 3598]	7493	[7944, 1023]
282	[536, 537]	2686	[1843, 1860]	5090	[6013, 500]	7494	[7945, 1429]
283	[538, 539]	2687	[489, 1889]	5091	[6083, 1895]	7495	[1107, 7946]
284	[540, 541]	2688	[3875, 3876]	5092	[3950, 2087]	7496	[7947, 1247]
285	[542, 543]	2689	[3637, 1640]	5093	[6084, 587]	7497	[3159, 7948]
286	[544, 545]	2690	[794, 3877]	5094	[6085, 6086]	7498	[2878, 1015]
287	[546, 547]	2691	[653, 3878]	5095	[6087, 2007]	7499	[7949, 2236]
288	[548, 549]	2692	[3879, 3880]	5096	[1993, 3992]	7500	[2713, 7950]
289	[550, 551]	2693	[550, 1967]	5097	[6088, 2158]	7501	[3248, 7951]
290	[552, 553]	2694	[3881, 2156]	5098	[6089, 1480]	7502	[7952, 7953]
291	[532, 554]	2695	[1892, 137]	5099	[2173, 2027]	7503	[7954, 2830]
292	[555, 556]	2696	[633, 1602]	5100	[3942, 1542]	7504	[7955, 7956]
293	[557, 166]	2697	[3882, 3883]	5101	[6090, 788]	7505	[7957, 4823]
294	[558, 559]	2698	[3470, 3553]	5102	[6010, 514]	7506	[7958, 3236]
295	[560, 561]	2699	[3884, 1495]	5103	[3813, 5786]	7507	[1290, 7806]
296	[562, 563]	2700	[3885, 175]	5104	[3735, 6091]	7508	[839, 7959]
297	[564, 565]	2701	[3886, 125]	5105	[6092, 59]	7509	[2452, 317]
298	[32, 566]	2702	[3721, 3887]	5106	[618, 734]	7510	[7960, 1104]
299	[567, 568]	2703	[3888, 3646]	5107	[6093, 4322]	7511	[7961, 4527]
300	[569, 570]	2704	[3889, 1645]	5108	[3870, 209]	7512	[1130, 4849]
301	[571, 572]	2705	[1664, 3804]	5109	[1679, 4402]	7513	[7962, 1182]
302	[573, 574]	2706	[8, 3890]	5110	[3988, 2120]	7514	[868, 5137]
303	[575, 576]	2707	[1688, 603]	5111	[6094, 1721]	7515	[6815, 1213]
304	[577, 578]	2708	[180, 3891]	5112	[48, 5986]	7516	[5211, 897]
305	[579, 580]	2709	[3892, 3893]	5113	[473, 6095]	7517	[7963, 1010]
306	[581, 582]	2710	[3894, 1950]	5114	[6096, 151]	7518	[7964, 262]
307	[583, 455]	2711	[3895, 1463]	5115	[6097, 156]	7519	[7965, 7020]
308	[584, 585]	2712	[3896, 3897]	5116	[1782, 682]	7520	[71, 893]
309	[586, 587]	2713	[3898, 2031]	5117	[586, 3956]	7521	[7966, 6907]
310	[588, 524]	2714	[3899, 3900]	5118	[6098, 1868]	7522	[1158, 2788]

311	[589, 590]	2715	[3901, 2166]	5119	[6099, 1807]	7523	[7967, 232]
312	[591, 592]	2716	[3686, 55]	5120	[1951, 2130]	7524	[5022, 1382]
313	[593, 594]	2717	[3902, 715]	5121	[6100, 1848]	7525	[7968, 7969]
314	[595, 596]	2718	[1788, 1901]	5122	[3652, 4276]	7526	[7970, 5023]
315	[597, 598]	2719	[3903, 1879]	5123	[6101, 465]	7527	[7971, 2346]
316	[599, 598]	2720	[3904, 3905]	5124	[6102, 2175]	7528	[7972, 7973]
317	[598, 467]	2721	[3906, 3907]	5125	[6103, 3739]	7529	[7974, 7975]
318	[470, 600]	2722	[3908, 3660]	5126	[509, 742]	7530	[5231, 2301]
319	[601, 168]	2723	[3909, 3910]	5127	[6104, 3549]	7531	[7976, 1057]
320	[166, 165]	2724	[3911, 1895]	5128	[3753, 1540]	7532	[888, 7969]
321	[602, 603]	2725	[3912, 188]	5129	[6105, 1473]	7533	[7977, 5123]
322	[129, 604]	2726	[2048, 3913]	5130	[3489, 3942]	7534	[1173, 7707]
323	[470, 168]	2727	[3738, 3914]	5131	[6106, 3904]	7535	[7978, 7979]
324	[467, 471]	2728	[3915, 3703]	5132	[6107, 190]	7536	[7980, 4846]
325	[469, 598]	2729	[1960, 3916]	5133	[3519, 6108]	7537	[7981, 6612]
326	[605, 606]	2730	[566, 3464]	5134	[6109, 1948]	7538	[6696, 2506]
327	[607, 608]	2731	[1804, 147]	5135	[6110, 6111]	7539	[2716, 968]
328	[609, 610]	2732	[3917, 188]	5136	[3620, 5723]	7540	[1182, 5496]
329	[611, 612]	2733	[2086, 1616]	5137	[6112, 2160]	7541	[7982, 7959]
330	[613, 614]	2734	[3918, 1755]	5138	[1597, 533]	7542	[6547, 7983]
331	[615, 616]	2735	[651, 1576]	5139	[617, 1564]	7543	[7984, 1089]
332	[617, 618]	2736	[653, 1757]	5140	[5990, 1506]	7544	[7985, 7986]
333	[619, 620]	2737	[3919, 3869]	5141	[4372, 472]	7545	[7691, 7987]
334	[621, 622]	2738	[757, 1988]	5142	[5995, 4475]	7546	[7988, 291]
335	[623, 624]	2739	[3920, 622]	5143	[6113, 4322]	7547	[7989, 7990]
336	[625, 547]	2740	[3921, 3922]	5144	[1946, 6114]	7548	[7991, 82]
337	[626, 627]	2741	[3923, 3924]	5145	[6115, 6116]	7549	[7992, 3362]
338	[628, 629]	2742	[3925, 3890]	5146	[6117, 1673]	7550	[7993, 6759]
339	[630, 205]	2743	[1907, 3926]	5147	[5797, 5989]	7551	[7994, 7995]
340	[631, 632]	2744	[3927, 3928]	5148	[800, 4052]	7552	[7996, 7997]
341	[633, 634]	2745	[3929, 1889]	5149	[6118, 1762]	7553	[7998, 6529]
342	[47, 635]	2746	[3930, 3931]	5150	[2014, 3587]	7554	[7999, 4864]
343	[636, 637]	2747	[3932, 3567]	5151	[6119, 739]	7555	[3283, 3259]
344	[638, 639]	2748	[3933, 524]	5152	[6120, 1878]	7556	[8000, 4537]
345	[640, 641]	2749	[3934, 34]	5153	[3867, 5890]	7557	[8001, 1125]
346	[575, 642]	2750	[3726, 3935]	5154	[6121, 1945]	7558	[8002, 5539]
347	[643, 644]	2751	[3936, 3634]	5155	[4088, 472]	7559	[24, 2807]
348	[645, 646]	2752	[3937, 570]	5156	[6122, 1766]	7560	[8003, 108]
349	[647, 445]	2753	[3938, 1475]	5157	[1718, 6123]	7561	[5411, 5270]
350	[648, 649]	2754	[2085, 3939]	5158	[6124, 2230]	7562	[2739, 120]
351	[650, 651]	2755	[3940, 2077]	5159	[1945, 6125]	7563	[8004, 6959]
352	[652, 653]	2756	[3941, 1807]	5160	[662, 4452]	7564	[8005, 1239]
353	[654, 203]	2757	[2215, 3942]	5161	[6126, 4177]	7565	[1227, 5382]
354	[655, 656]	2758	[3943, 581]	5162	[593, 4459]	7566	[1153, 3046]

355	[657, 658]	2759	[1789, 3849]	5163	[3538, 2060]	7567	[8006, 260]
356	[659, 660]	2760	[3944, 1643]	5164	[651, 4233]	7568	[8007, 2318]
357	[661, 662]	2761	[1983, 3945]	5165	[188, 4014]	7569	[2414, 353]
358	[663, 664]	2762	[541, 750]	5166	[5760, 1662]	7570	[8008, 4661]
359	[665, 666]	2763	[457, 3946]	5167	[6127, 5989]	7571	[8009, 2432]
360	[667, 668]	2764	[3947, 2132]	5168	[459, 1845]	7572	[5587, 7890]
361	[669, 670]	2765	[2183, 1564]	5169	[660, 1694]	7573	[2926, 6573]
362	[671, 672]	2766	[3694, 465]	5170	[4196, 2067]	7574	[1261, 7152]
363	[673, 674]	2767	[3907, 3948]	5171	[6116, 6128]	7575	[8010, 1237]
364	[675, 676]	2768	[2178, 49]	5172	[6129, 4269]	7576	[3404, 8011]
365	[677, 150]	2769	[3540, 3949]	5173	[6130, 1728]	7577	[8012, 3070]
366	[678, 679]	2770	[3950, 1452]	5174	[6131, 3899]	7578	[8013, 2830]
367	[635, 680]	2771	[3951, 3952]	5175	[6132, 3471]	7579	[8014, 8015]
368	[681, 682]	2772	[3762, 205]	5176	[6133, 6134]	7580	[8016, 67]
369	[683, 180]	2773	[3953, 3813]	5177	[3973, 2130]	7581	[8017, 1369]
370	[684, 685]	2774	[3954, 149]	5178	[2056, 4052]	7582	[8018, 6878]
371	[686, 687]	2775	[3955, 486]	5179	[230, 450]	7583	[8019, 107]
372	[688, 689]	2776	[1543, 3956]	5180	[6135, 1725]	7584	[8020, 7141]
373	[690, 691]	2777	[3957, 3819]	5181	[681, 1783]	7585	[8021, 5611]
374	[692, 693]	2778	[3958, 2019]	5182	[447, 2140]	7586	[373, 4581]
375	[694, 695]	2779	[1479, 3959]	5183	[6136, 5800]	7587	[2389, 2673]
376	[696, 697]	2780	[3814, 159]	5184	[4020, 2228]	7588	[8022, 7801]
377	[698, 699]	2781	[3960, 3961]	5185	[601, 600]	7589	[4576, 7826]
378	[700, 701]	2782	[3962, 762]	5186	[6137, 6138]	7590	[8023, 2471]
379	[702, 703]	2783	[580, 576]	5187	[2167, 6078]	7591	[8024, 1009]
380	[704, 705]	2784	[3963, 644]	5188	[6139, 6140]	7592	[8025, 4922]
381	[706, 707]	2785	[3486, 3905]	5189	[682, 3950]	7593	[8026, 1132]
382	[708, 709]	2786	[3964, 1788]	5190	[776, 6141]	7594	[8027, 2553]
383	[710, 711]	2787	[579, 756]	5191	[2230, 6142]	7595	[4547, 7084]
384	[675, 712]	2788	[3827, 445]	5192	[1783, 3950]	7596	[5255, 4564]
385	[713, 158]	2789	[2012, 3965]	5193	[6143, 131]	7597	[5371, 105]
386	[714, 715]	2790	[3966, 571]	5194	[6091, 6144]	7598	[5594, 8028]
387	[588, 716]	2791	[539, 3910]	5195	[709, 685]	7599	[8029, 8030]
388	[717, 718]	2792	[3967, 1711]	5196	[485, 1571]	7600	[1298, 2929]
389	[719, 720]	2793	[678, 3968]	5197	[6145, 1493]	7601	[8031, 8032]
390	[721, 617]	2794	[3969, 3623]	5198	[6146, 5770]	7602	[8033, 409]
391	[722, 186]	2795	[3970, 3660]	5199	[6147, 3705]	7603	[1441, 6830]
392	[723, 724]	2796	[3806, 3971]	5200	[6148, 1804]	7604	[8034, 4880]
393	[493, 725]	2797	[2183, 618]	5201	[6149, 5888]	7605	[8035, 4491]
394	[726, 670]	2798	[1868, 3972]	5202	[6150, 6151]	7606	[8036, 2696]
395	[727, 728]	2799	[1950, 3973]	5203	[6152, 3887]	7607	[8037, 2982]
396	[729, 711]	2800	[3974, 1670]	5204	[3570, 692]	7608	[8038, 6708]
397	[730, 731]	2801	[3975, 735]	5205	[6153, 1694]	7609	[8039, 418]
398	[732, 733]	2802	[3976, 585]	5206	[580, 642]	7610	[8040, 90]

399	[734, 735]	2803	[3977, 674]	5207	[6154, 4024]	7611	[8041, 4554]
400	[736, 737]	2804	[3769, 3978]	5208	[3672, 3950]	7612	[8042, 3154]
401	[738, 167]	2805	[3979, 3980]	5209	[1893, 6155]	7613	[8043, 5099]
402	[739, 740]	2806	[3981, 1862]	5210	[6156, 4286]	7614	[8044, 287]
403	[741, 742]	2807	[3982, 758]	5211	[6157, 171]	7615	[8045, 4649]
404	[743, 572]	2808	[49, 707]	5212	[6158, 6159]	7616	[8046, 401]
405	[744, 745]	2809	[3983, 3984]	5213	[1605, 4206]	7617	[8047, 6947]
406	[746, 211]	2810	[3985, 502]	5214	[3549, 6160]	7618	[8048, 5591]
407	[747, 748]	2811	[3986, 2091]	5215	[3595, 2023]	7619	[8049, 5082]
408	[749, 750]	2812	[3856, 3525]	5216	[6161, 1697]	7620	[1329, 7123]
409	[544, 751]	2813	[766, 1820]	5217	[6109, 5989]	7621	[8050, 4542]
410	[752, 216]	2814	[802, 556]	5218	[1475, 4163]	7622	[2422, 8051]
411	[753, 595]	2815	[3987, 3988]	5219	[6162, 4177]	7623	[8052, 5013]
412	[754, 475]	2816	[3797, 3638]	5220	[2097, 1626]	7624	[8053, 1267]
413	[755, 756]	2817	[2093, 3570]	5221	[6163, 2156]	7625	[8054, 438]
414	[757, 758]	2818	[1524, 3989]	5222	[6077, 563]	7626	[8055, 2429]
415	[759, 760]	2819	[3990, 211]	5223	[6164, 1443]	7627	[5225, 8056]
416	[761, 592]	2820	[3991, 445]	5224	[6068, 1863]	7628	[8057, 3166]
417	[725, 762]	2821	[577, 3992]	5225	[6165, 718]	7629	[8058, 6761]
418	[763, 764]	2822	[3993, 142]	5226	[4351, 672]	7630	[2937, 2278]
419	[765, 652]	2823	[3466, 3994]	5227	[6166, 6138]	7631	[1214, 8059]
420	[587, 766]	2824	[3995, 3455]	5228	[6167, 3689]	7632	[7003, 929]
421	[767, 768]	2825	[3996, 477]	5229	[5755, 3487]	7633	[8060, 5464]
422	[164, 769]	2826	[3997, 3998]	5230	[6168, 6169]	7634	[8061, 5510]
423	[770, 771]	2827	[1559, 691]	5231	[6170, 5757]	7635	[8062, 4690]
424	[772, 773]	2828	[707, 3999]	5232	[6171, 3815]	7636	[8063, 5293]
425	[774, 175]	2829	[4000, 3935]	5233	[4296, 4096]	7637	[8064, 916]
426	[775, 137]	2830	[169, 603]	5234	[704, 2178]	7638	[8065, 2588]
427	[776, 777]	2831	[3580, 4001]	5235	[6172, 3776]	7639	[8066, 1109]
428	[722, 778]	2832	[4002, 3646]	5236	[1678, 491]	7640	[6701, 8067]
429	[779, 780]	2833	[4003, 1775]	5237	[6173, 4422]	7641	[8068, 5278]
430	[781, 782]	2834	[3615, 4004]	5238	[654, 4097]	7642	[8069, 2520]
431	[783, 784]	2835	[3491, 1783]	5239	[5731, 6174]	7643	[2295, 8070]
432	[785, 786]	2836	[150, 4005]	5240	[1780, 678]	7644	[8071, 2543]
433	[787, 149]	2837	[743, 2025]	5241	[6175, 759]	7645	[8072, 5167]
434	[709, 788]	2838	[1705, 3524]	5242	[6176, 6177]	7646	[8073, 6464]
435	[789, 790]	2839	[4006, 4007]	5243	[4469, 4035]	7647	[4557, 3152]
436	[791, 792]	2840	[1989, 1560]	5244	[6178, 3750]	7648	[8074, 5385]
437	[793, 794]	2841	[4008, 1481]	5245	[6179, 6015]	7649	[8075, 7863]
438	[795, 796]	2842	[4009, 1743]	5246	[6180, 4220]	7650	[8076, 8077]
439	[797, 798]	2843	[4010, 4011]	5247	[1452, 1882]	7651	[8078, 323]
440	[466, 799]	2844	[3501, 3471]	5248	[6181, 156]	7652	[8079, 1044]
441	[800, 801]	2845	[4012, 568]	5249	[3904, 3487]	7653	[7146, 2685]
442	[802, 803]	2846	[4013, 4014]	5250	[6182, 4047]	7654	[8080, 1390]

443	[804, 805]	2847	[4015, 4016]	5251	[6183, 622]	7655	[8081, 1026]
444	[806, 807]	2848	[4017, 489]	5252	[4366, 3719]	7656	[8082, 2315]
445	[808, 809]	2849	[4018, 3778]	5253	[6184, 776]	7657	[3198, 8083]
446	[810, 811]	2850	[4019, 3580]	5254	[6185, 4375]	7658	[8084, 927]
447	[812, 813]	2851	[557, 3558]	5255	[6186, 1521]	7659	[8085, 112]
448	[814, 815]	2852	[4020, 129]	5256	[699, 6187]	7660	[4525, 2510]
449	[816, 817]	2853	[4021, 470]	5257	[2171, 4253]	7661	[1397, 5558]
450	[818, 819]	2854	[4022, 604]	5258	[6188, 3620]	7662	[8086, 3163]
451	[820, 821]	2855	[2228, 470]	5259	[6189, 610]	7663	[2740, 1320]
452	[822, 291]	2856	[599, 1836]	5260	[4365, 1505]	7664	[8087, 3189]
453	[823, 824]	2857	[1834, 1835]	5261	[1515, 737]	7665	[8088, 8089]
454	[825, 826]	2858	[4022, 470]	5262	[6190, 6111]	7666	[3413, 8090]
455	[827, 828]	2859	[165, 1509]	5263	[1499, 473]	7667	[8091, 3218]
456	[829, 830]	2860	[1840, 3558]	5264	[6191, 2202]	7668	[8092, 8093]
457	[831, 832]	2861	[1465, 1689]	5265	[4025, 6192]	7669	[819, 8094]
458	[833, 834]	2862	[598, 799]	5266	[6193, 1673]	7670	[1408, 2267]
459	[835, 836]	2863	[1510, 42]	5267	[6194, 3513]	7671	[8095, 3251]
460	[837, 838]	2864	[43, 3558]	5268	[5789, 5668]	7672	[8096, 5020]
461	[839, 840]	2865	[4023, 4024]	5269	[6195, 3951]	7673	[3116, 5401]
462	[841, 309]	2866	[4025, 4026]	5270	[5958, 1481]	7674	[8097, 8098]
463	[842, 843]	2867	[3443, 1566]	5271	[3465, 3787]	7675	[394, 1273]
464	[844, 845]	2868	[1817, 3618]	5272	[4387, 207]	7676	[8099, 7709]
465	[846, 847]	2869	[3617, 4027]	5273	[6196, 6197]	7677	[2498, 4658]
466	[65, 848]	2870	[4028, 632]	5274	[6198, 1799]	7678	[8100, 6602]
467	[849, 850]	2871	[4029, 624]	5275	[6127, 1948]	7679	[934, 2413]
468	[293, 851]	2872	[1636, 3697]	5276	[6199, 6200]	7680	[8090, 2918]
469	[852, 853]	2873	[699, 4030]	5277	[6201, 3793]	7681	[8101, 5408]
470	[245, 324]	2874	[4031, 2094]	5278	[5740, 570]	7682	[8102, 1753]
471	[848, 246]	2875	[4032, 1891]	5279	[1690, 4284]	7683	[1790, 1713]
472	[854, 855]	2876	[2157, 4033]	5280	[6117, 157]	7684	[8103, 7381]
473	[856, 857]	2877	[4034, 2092]	5281	[5728, 6202]	7685	[8104, 1945]
474	[858, 859]	2878	[1691, 4035]	5282	[6203, 1744]	7686	[8105, 5766]
475	[860, 861]	2879	[4036, 3829]	5283	[4401, 2008]	7687	[8106, 1612]
476	[862, 863]	2880	[1888, 2074]	5284	[465, 648]	7688	[1743, 6253]
477	[864, 865]	2881	[4037, 1775]	5285	[6204, 3601]	7689	[8107, 1874]
478	[866, 867]	2882	[713, 3814]	5286	[3518, 1666]	7690	[6355, 5947]
479	[104, 868]	2883	[4038, 4039]	5287	[6205, 1976]	7691	[8108, 7349]
480	[869, 870]	2884	[4040, 3939]	5288	[5968, 4426]	7692	[1637, 1876]
481	[871, 872]	2885	[4041, 4042]	5289	[6206, 4106]	7693	[1666, 802]
482	[873, 874]	2886	[4043, 4044]	5290	[3627, 2183]	7694	[124, 4033]
483	[875, 876]	2887	[4045, 525]	5291	[712, 4261]	7695	[8109, 1668]
484	[877, 878]	2888	[3954, 1786]	5292	[151, 6207]	7696	[8110, 1964]
485	[879, 76]	2889	[4046, 4047]	5293	[6180, 194]	7697	[8111, 135]
486	[284, 880]	2890	[1947, 3611]	5294	[6208, 3550]	7698	[8112, 6454]

487	[286, 881]	2891	[4048, 4049]	5295	[6099, 2219]	7699	[8113, 1930]
488	[882, 883]	2892	[4050, 1558]	5296	[6209, 8]	7700	[5923, 8114]
489	[884, 885]	2893	[4051, 4052]	5297	[1581, 1506]	7701	[8115, 6223]
490	[886, 887]	2894	[1899, 4053]	5298	[4279, 4425]	7702	[8116, 573]
491	[872, 888]	2895	[4054, 1901]	5299	[6210, 6018]	7703	[8117, 1458]
492	[889, 890]	2896	[486, 4055]	5300	[5702, 6211]	7704	[8118, 8119]
493	[891, 892]	2897	[4056, 3561]	5301	[6212, 2226]	7705	[4167, 5899]
494	[893, 894]	2898	[3541, 3877]	5302	[6213, 4420]	7706	[8120, 6144]
495	[895, 896]	2899	[4057, 658]	5303	[6214, 6197]	7707	[4300, 2136]
496	[897, 898]	2900	[3700, 709]	5304	[6215, 5758]	7708	[1476, 2150]
497	[899, 900]	2901	[4058, 715]	5305	[6216, 1842]	7709	[2016, 3798]
498	[901, 902]	2902	[3565, 4059]	5306	[1584, 2025]	7710	[8121, 1887]
499	[903, 904]	2903	[4060, 3634]	5307	[6217, 5808]	7711	[8122, 1742]
500	[881, 905]	2904	[449, 487]	5308	[732, 3914]	7712	[8123, 3738]
501	[906, 907]	2905	[189, 3959]	5309	[3823, 3961]	7713	[8124, 2053]
502	[908, 909]	2906	[3956, 766]	5310	[1624, 6218]	7714	[7649, 5945]
503	[910, 911]	2907	[3829, 461]	5311	[6219, 649]	7715	[8125, 4140]
504	[912, 913]	2908	[4061, 4062]	5312	[6220, 3928]	7716	[8126, 1697]
505	[266, 914]	2909	[4063, 1461]	5313	[1897, 3541]	7717	[8127, 2150]
506	[915, 916]	2910	[4064, 4065]	5314	[6033, 1864]	7718	[8128, 4258]
507	[917, 918]	2911	[4066, 1827]	5315	[6133, 6221]	7719	[503, 778]
508	[919, 920]	2912	[3930, 4067]	5316	[6222, 6223]	7720	[8129, 3664]
509	[921, 922]	2913	[4068, 2069]	5317	[6224, 6225]	7721	[8130, 3792]
510	[923, 924]	2914	[3616, 3639]	5318	[6226, 2193]	7722	[8131, 6432]
511	[925, 926]	2915	[4069, 1942]	5319	[625, 3906]	7723	[1861, 2146]
512	[927, 928]	2916	[4070, 4071]	5320	[692, 514]	7724	[2212, 457]
513	[929, 930]	2917	[527, 3519]	5321	[6227, 1846]	7725	[8132, 2226]
514	[931, 932]	2918	[1751, 2027]	5322	[6228, 6229]	7726	[6104, 1958]
515	[933, 934]	2919	[203, 3998]	5323	[4402, 3529]	7727	[8133, 5977]
516	[935, 936]	2920	[4072, 131]	5324	[6230, 473]	7728	[8134, 7528]
517	[937, 938]	2921	[4073, 1705]	5325	[6231, 1514]	7729	[4182, 689]
518	[939, 940]	2922	[4074, 4075]	5326	[2106, 3778]	7730	[8135, 4232]
519	[941, 942]	2923	[3969, 1706]	5327	[3756, 670]	7731	[4146, 3897]
520	[943, 944]	2924	[4076, 2193]	5328	[4042, 6232]	7732	[8136, 4447]
521	[945, 946]	2925	[1769, 3575]	5329	[6233, 6140]	7733	[3852, 1912]
522	[947, 948]	2926	[2038, 1711]	5330	[1662, 6045]	7734	[8137, 2154]
523	[949, 950]	2927	[1725, 4077]	5331	[6234, 230]	7735	[8138, 4412]
524	[951, 952]	2928	[4078, 1969]	5332	[3586, 3668]	7736	[1931, 6202]
525	[953, 954]	2929	[4079, 481]	5333	[6193, 157]	7737	[8139, 1825]
526	[955, 956]	2930	[1807, 4080]	5334	[1729, 2063]	7738	[8140, 2130]
527	[957, 958]	2931	[1985, 1843]	5335	[6235, 4368]	7739	[8141, 5887]
528	[959, 960]	2932	[1791, 1679]	5336	[6236, 711]	7740	[4332, 1633]
529	[961, 962]	2933	[545, 532]	5337	[6237, 6207]	7741	[8142, 3686]
530	[963, 964]	2934	[4081, 3715]	5338	[6238, 1884]	7742	[8143, 4065]

531	[965, 966]	2935	[2227, 456]	5339	[6239, 5742]	7743	[8144, 6123]
532	[4, 967]	2936	[4082, 553]	5340	[6240, 1502]	7744	[2055, 5675]
533	[968, 969]	2937	[2121, 3725]	5341	[6241, 1868]	7745	[8145, 1945]
534	[970, 971]	2938	[4083, 4084]	5342	[6242, 2205]	7746	[8146, 699]
535	[263, 972]	2939	[3729, 748]	5343	[3709, 4088]	7747	[3782, 1876]
536	[973, 974]	2940	[4085, 4062]	5344	[6243, 6244]	7748	[8147, 1726]
537	[975, 976]	2941	[4086, 742]	5345	[6245, 1586]	7749	[8148, 4098]
538	[977, 978]	2942	[4087, 674]	5346	[6246, 5850]	7750	[8149, 637]
539	[979, 980]	2943	[4088, 1866]	5347	[6247, 2221]	7751	[8150, 3949]
540	[981, 982]	2944	[4089, 4090]	5348	[501, 53]	7752	[3894, 3998]
541	[983, 984]	2945	[197, 4091]	5349	[3548, 4179]	7753	[4396, 2137]
542	[81, 985]	2946	[4092, 1668]	5350	[6248, 2132]	7754	[8151, 123]
543	[826, 986]	2947	[4093, 40]	5351	[5783, 2066]	7755	[8152, 8153]
544	[987, 988]	2948	[4094, 4095]	5352	[6249, 5772]	7756	[1838, 1823]
545	[989, 949]	2949	[3750, 2185]	5353	[6250, 3662]	7757	[8154, 3485]
546	[990, 71]	2950	[782, 4096]	5354	[4283, 646]	7758	[6312, 4475]
547	[991, 992]	2951	[202, 4097]	5355	[6251, 4322]	7759	[8155, 3593]
548	[993, 994]	2952	[1624, 4098]	5356	[6252, 3658]	7760	[8156, 1986]
549	[995, 996]	2953	[4099, 1762]	5357	[2072, 6253]	7761	[8157, 6229]
550	[997, 998]	2954	[478, 1624]	5358	[524, 3473]	7762	[1924, 2060]
551	[999, 1000]	2955	[1817, 4027]	5359	[6254, 802]	7763	[8158, 1907]
552	[1001, 1002]	2956	[4100, 3951]	5360	[6255, 3588]	7764	[8159, 3524]
553	[1003, 1004]	2957	[4101, 4102]	5361	[3732, 42]	7765	[3867, 8160]
554	[949, 1005]	2958	[4103, 1454]	5362	[5667, 5790]	7766	[8161, 8119]
555	[1006, 875]	2959	[174, 1795]	5363	[1741, 648]	7767	[8162, 2102]
556	[1007, 1008]	2960	[1646, 4104]	5364	[6256, 584]	7768	[8163, 3980]
557	[1009, 1010]	2961	[4105, 4106]	5365	[6257, 6258]	7769	[8164, 6140]
558	[1011, 1012]	2962	[4107, 4108]	5366	[769, 1839]	7770	[8165, 8166]
559	[1013, 1014]	2963	[624, 1523]	5367	[6259, 2035]	7771	[8167, 7264]
560	[1015, 1016]	2964	[3772, 4109]	5368	[6260, 2206]	7772	[8168, 6091]
561	[933, 1017]	2965	[4110, 3989]	5369	[6261, 6262]	7773	[8169, 2186]
562	[1018, 1019]	2966	[60, 3563]	5370	[6263, 4185]	7774	[6454, 6055]
563	[1020, 1021]	2967	[465, 4111]	5371	[6246, 204]	7775	[8170, 5911]
564	[1022, 1023]	2968	[4112, 4113]	5372	[6264, 2115]	7776	[8171, 8172]
565	[1024, 1025]	2969	[4114, 516]	5373	[3528, 4262]	7777	[8173, 3606]
566	[1026, 1027]	2970	[4115, 3905]	5374	[3788, 2029]	7778	[4227, 1550]
567	[1028, 360]	2971	[4116, 1853]	5375	[6265, 584]	7779	[8174, 5832]
568	[1029, 1030]	2972	[4117, 463]	5376	[6266, 4298]	7780	[8175, 530]
569	[1031, 1032]	2973	[4118, 4119]	5377	[6267, 457]	7781	[8176, 8177]
570	[1033, 1034]	2974	[4120, 4121]	5378	[6268, 3788]	7782	[8178, 7492]
571	[1035, 1036]	2975	[1737, 4122]	5379	[6269, 3641]	7783	[8179, 3540]
572	[1037, 1038]	2976	[4123, 535]	5380	[6270, 192]	7784	[4078, 1578]
573	[1039, 1040]	2977	[2094, 4124]	5381	[6271, 4046]	7785	[8180, 1982]
574	[74, 1041]	2978	[4125, 3635]	5382	[6272, 178]	7786	[8181, 5764]

575	[1042, 254]	2979	[4126, 1982]	5383	[3886, 4033]	7787	[4397, 1986]
576	[1043, 1044]	2980	[4127, 3994]	5384	[2150, 4466]	7788	[8182, 4029]
577	[1045, 959]	2981	[2230, 4128]	5385	[1507, 1838]	7789	[8183, 6301]
578	[1046, 1047]	2982	[1700, 4129]	5386	[3835, 637]	7790	[8184, 6454]
579	[1048, 1049]	2983	[1552, 3758]	5387	[6273, 3569]	7791	[3499, 680]
580	[1050, 1051]	2984	[4130, 692]	5388	[3907, 6018]	7792	[8185, 1498]
581	[1052, 1053]	2985	[445, 1600]	5389	[6274, 1670]	7793	[8186, 5728]
582	[1054, 1055]	2986	[4131, 2007]	5390	[6275, 573]	7794	[6345, 3822]
583	[1056, 1057]	2987	[1843, 792]	5391	[3811, 1935]	7795	[8187, 4398]
584	[1058, 1059]	2988	[4132, 162]	5392	[634, 547]	7796	[8188, 6134]
585	[81, 1060]	2989	[2115, 4133]	5393	[3979, 6168]	7797	[8189, 3972]
586	[1061, 1062]	2990	[55, 1549]	5394	[6276, 1470]	7798	[8190, 8153]
587	[1063, 1064]	2991	[4134, 3913]	5395	[6277, 4121]	7799	[8191, 5888]
588	[1065, 1066]	2992	[4135, 3699]	5396	[6112, 4475]	7800	[8192, 3700]
589	[1067, 1068]	2993	[3813, 182]	5397	[1517, 1725]	7801	[5699, 4276]
590	[1069, 1070]	2994	[4136, 4137]	5398	[6278, 176]	7802	[8193, 1949]
591	[1071, 1072]	2995	[4082, 1779]	5399	[6279, 5796]	7803	[8194, 800]
592	[1073, 810]	2996	[3457, 3939]	5400	[1661, 773]	7804	[8195, 5723]
593	[1074, 1075]	2997	[1443, 2049]	5401	[1565, 1771]	7805	[8196, 766]
594	[1076, 1077]	2998	[4138, 1825]	5402	[6044, 4148]	7806	[3937, 1698]
595	[1078, 1079]	2999	[4139, 4140]	5403	[177, 4071]	7807	[8197, 3984]
596	[1080, 1081]	3000	[4141, 4142]	5404	[3651, 5859]	7808	[8198, 766]
597	[1082, 1083]	3001	[4143, 4102]	5405	[6108, 556]	7809	[8199, 626]
598	[851, 1084]	3002	[3942, 652]	5406	[134, 1490]	7810	[8200, 8201]
599	[1085, 1086]	3003	[3481, 4096]	5407	[6280, 4261]	7811	[8202, 6244]
600	[1087, 1088]	3004	[762, 4144]	5408	[1616, 4168]	7812	[8203, 4355]
601	[1089, 1090]	3005	[4145, 701]	5409	[6281, 1473]	7813	[6063, 7439]
602	[1091, 1092]	3006	[4125, 3548]	5410	[1459, 748]	7814	[8204, 1972]
603	[1093, 1094]	3007	[3951, 207]	5411	[6282, 1504]	7815	[6400, 1822]
604	[1095, 1096]	3008	[446, 4146]	5412	[524, 1691]	7816	[8205, 2081]
605	[1097, 1098]	3009	[4147, 1451]	5413	[6283, 1904]	7817	[8206, 4312]
606	[1099, 1100]	3010	[4148, 4149]	5414	[6284, 3928]	7818	[4095, 3807]
607	[1101, 1102]	3011	[4150, 2069]	5415	[6285, 2104]	7819	[8207, 8208]
608	[1103, 1104]	3012	[3728, 1815]	5416	[6286, 1480]	7820	[7520, 6018]
609	[1105, 1106]	3013	[4151, 4106]	5417	[6287, 5949]	7821	[5790, 5911]
610	[1107, 1108]	3014	[4152, 4153]	5418	[629, 5847]	7822	[8209, 1754]
611	[1109, 1110]	3015	[4154, 2170]	5419	[213, 2073]	7823	[8210, 504]
612	[1111, 1112]	3016	[2218, 1611]	5420	[6288, 1470]	7824	[4257, 1921]
613	[1113, 1114]	3017	[1658, 4119]	5421	[3818, 2183]	7825	[8211, 1893]
614	[1115, 990]	3018	[4155, 4156]	5422	[6289, 1946]	7826	[8212, 528]
615	[1116, 1117]	3019	[4157, 4158]	5423	[6290, 1799]	7827	[8213, 1770]
616	[393, 1118]	3020	[4159, 4121]	5424	[6291, 4461]	7828	[8214, 1498]
617	[1119, 1120]	3021	[4160, 4161]	5425	[133, 4028]	7829	[8215, 4269]
618	[1121, 1122]	3022	[4162, 3567]	5426	[6292, 1887]	7830	[4343, 3693]

619	[1123, 1124]	3023	[200, 4163]	5427	[4369, 4084]	7831	[8216, 3772]
620	[1125, 1126]	3024	[4164, 502]	5428	[5697, 3942]	7832	[8217, 4009]
621	[1127, 1128]	3025	[1745, 4165]	5429	[2127, 2073]	7833	[8198, 1819]
622	[1129, 1130]	3026	[4166, 4167]	5430	[6293, 4440]	7834	[8218, 7677]
623	[1131, 1132]	3027	[3523, 3804]	5431	[6294, 678]	7835	[8219, 1591]
624	[1133, 1016]	3028	[1756, 4168]	5432	[6295, 2150]	7836	[8220, 1957]
625	[1080, 376]	3029	[4169, 1708]	5433	[587, 1819]	7837	[8221, 1577]
626	[1134, 1135]	3030	[4124, 1525]	5434	[6296, 1848]	7838	[546, 3906]
627	[1136, 1137]	3031	[3540, 4170]	5435	[4437, 1529]	7839	[8222, 6006]
628	[1138, 1139]	3032	[1917, 38]	5436	[5938, 3918]	7840	[8223, 1917]
629	[1140, 1141]	3033	[1715, 500]	5437	[6297, 1570]	7841	[8224, 32]
630	[1142, 1143]	3034	[718, 2018]	5438	[6298, 554]	7842	[8225, 1891]
631	[1144, 1145]	3035	[4171, 2185]	5439	[6299, 6223]	7843	[8226, 775]
632	[255, 1146]	3036	[4172, 1452]	5440	[6300, 4447]	7844	[8227, 8208]
633	[1147, 1148]	3037	[4173, 1879]	5441	[6054, 6301]	7845	[8228, 6111]
634	[1149, 1150]	3038	[4174, 12]	5442	[1495, 5746]	7846	[8229, 3783]
635	[92, 1151]	3039	[4175, 194]	5443	[4449, 4153]	7847	[8230, 3626]
636	[1152, 1153]	3040	[4176, 4177]	5444	[5816, 61]	7848	[8231, 6408]
637	[1154, 105]	3041	[4178, 539]	5445	[6302, 3569]	7849	[8232, 3704]
638	[1155, 1156]	3042	[3635, 4179]	5446	[4097, 3998]	7850	[7450, 6066]
639	[233, 1157]	3043	[4180, 3549]	5447	[2030, 5680]	7851	[8233, 777]
640	[1077, 322]	3044	[4181, 1621]	5448	[6303, 1618]	7852	[3725, 1652]
641	[1158, 1159]	3045	[2005, 1813]	5449	[1884, 6304]	7853	[1925, 220]
642	[1049, 1160]	3046	[4182, 3570]	5450	[6305, 6306]	7854	[8234, 6322]
643	[1161, 1162]	3047	[2206, 59]	5451	[6307, 6308]	7855	[8235, 793]
644	[1163, 1164]	3048	[4183, 657]	5452	[6309, 3918]	7856	[7210, 3817]
645	[1165, 1166]	3049	[4184, 4185]	5453	[6310, 727]	7857	[8236, 771]
646	[384, 1167]	3050	[1587, 2153]	5454	[3702, 2139]	7858	[7396, 494]
647	[814, 1168]	3051	[4186, 3501]	5455	[4441, 155]	7859	[8237, 5895]
648	[845, 1169]	3052	[4187, 3922]	5456	[1953, 773]	7860	[8238, 552]
649	[1170, 1171]	3053	[4188, 4189]	5457	[6311, 644]	7861	[6012, 3520]
650	[1172, 1173]	3054	[187, 122]	5458	[6312, 2160]	7862	[8239, 5811]
651	[1174, 24]	3055	[4190, 3555]	5459	[509, 6172]	7863	[3473, 1692]
652	[1175, 1176]	3056	[4191, 3540]	5460	[6313, 5967]	7864	[8240, 5714]
653	[1177, 1178]	3057	[4192, 4193]	5461	[1959, 751]	7865	[1682, 4228]
654	[1179, 1180]	3058	[1558, 4194]	5462	[6314, 2115]	7866	[3679, 4163]
655	[1141, 1181]	3059	[4195, 4196]	5463	[6315, 4142]	7867	[3844, 5677]
656	[1182, 1183]	3060	[1824, 4197]	5464	[3733, 533]	7868	[3448, 1844]
657	[1184, 1185]	3061	[4198, 3813]	5465	[3522, 6316]	7869	[8241, 3740]
658	[1186, 1187]	3062	[4199, 1783]	5466	[4013, 123]	7870	[8242, 4432]
659	[1188, 1189]	3063	[4200, 4201]	5467	[6317, 5688]	7871	[8243, 2221]
660	[1190, 1191]	3064	[4202, 4203]	5468	[6318, 2158]	7872	[5944, 1476]
661	[1192, 1193]	3065	[4204, 1515]	5469	[6319, 6320]	7873	[8244, 6116]
662	[243, 1194]	3066	[1457, 3602]	5470	[6321, 6322]	7874	[5903, 483]

663	[1195, 1196]	3067	[750, 1736]	5471	[5869, 4280]	7875	[8245, 8246]
664	[1197, 1198]	3068	[1704, 562]	5472	[4209, 200]	7876	[726, 3611]
665	[1199, 1200]	3069	[4205, 3464]	5473	[6323, 4042]	7877	[8247, 5772]
666	[1201, 1202]	3070	[3681, 4206]	5474	[6324, 1788]	7878	[8248, 3837]
667	[1203, 1204]	3071	[4207, 213]	5475	[6107, 3959]	7879	[1850, 660]
668	[1205, 1206]	3072	[1807, 1801]	5476	[6325, 667]	7880	[5761, 2163]
669	[1207, 1208]	3073	[4208, 2052]	5477	[4180, 1958]	7881	[7562, 1800]
670	[1209, 1210]	3074	[773, 4148]	5478	[4355, 722]	7882	[8249, 1558]
671	[1211, 1212]	3075	[4209, 1475]	5479	[6326, 4461]	7883	[8250, 5895]
672	[1213, 1214]	3076	[4210, 1992]	5480	[6327, 3886]	7884	[8251, 4358]
673	[1215, 1216]	3077	[1701, 2137]	5481	[452, 1611]	7885	[8252, 8166]
674	[1217, 1218]	3078	[4211, 3681]	5482	[6328, 3835]	7886	[8253, 704]
675	[1219, 1220]	3079	[612, 3551]	5483	[6329, 5696]	7887	[4167, 7483]
676	[1221, 1222]	3080	[4212, 1872]	5484	[1555, 173]	7888	[3773, 5965]
677	[1223, 1224]	3081	[2133, 3784]	5485	[459, 6330]	7889	[8254, 4312]
678	[1225, 1226]	3082	[4213, 1997]	5486	[4009, 6203]	7890	[637, 3922]
679	[1227, 1228]	3083	[3720, 634]	5487	[5705, 6144]	7891	[8255, 1470]
680	[94, 1229]	3084	[1944, 731]	5488	[6331, 1502]	7892	[8256, 4084]
681	[1230, 1231]	3085	[4214, 4215]	5489	[188, 123]	7893	[8257, 2053]
682	[1232, 1233]	3086	[1584, 572]	5490	[201, 40]	7894	[7249, 2042]
683	[1234, 1235]	3087	[1523, 4089]	5491	[6330, 1846]	7895	[8258, 1643]
684	[1236, 1237]	3088	[4216, 1618]	5492	[6332, 47]	7896	[4473, 1760]
685	[1238, 1239]	3089	[228, 3454]	5493	[4108, 3548]	7897	[8259, 3872]
686	[1240, 1241]	3090	[4217, 165]	5494	[6333, 3735]	7898	[8260, 7433]
687	[1242, 1243]	3091	[127, 4218]	5495	[4043, 3816]	7899	[5757, 6439]
688	[1244, 1245]	3092	[4219, 2004]	5496	[4445, 3475]	7900	[1749, 1796]
689	[1246, 1247]	3093	[193, 4220]	5497	[6334, 739]	7901	[4405, 4084]
690	[1248, 1249]	3094	[4221, 1992]	5498	[6335, 6336]	7902	[8261, 1844]
691	[1250, 1251]	3095	[4222, 667]	5499	[6337, 5919]	7903	[8262, 6068]
692	[1252, 1253]	3096	[4223, 4137]	5500	[629, 1764]	7904	[8263, 3649]
693	[1247, 1254]	3097	[2119, 4224]	5501	[6338, 3432]	7905	[8264, 664]
694	[1255, 1256]	3098	[4225, 4226]	5502	[6339, 3876]	7906	[3537, 3952]
695	[1257, 1258]	3099	[4124, 3989]	5503	[6340, 3876]	7907	[8265, 2189]
696	[1259, 1260]	3100	[4227, 4228]	5504	[1777, 4158]	7908	[8266, 5938]
697	[1261, 1262]	3101	[2061, 3448]	5505	[1641, 3663]	7909	[8267, 3899]
698	[1263, 1264]	3102	[4229, 3437]	5506	[6341, 796]	7910	[5947, 1604]
699	[1265, 1266]	3103	[4230, 3589]	5507	[6229, 6342]	7911	[8268, 3788]
700	[1267, 1268]	3104	[4231, 4232]	5508	[4360, 3739]	7912	[8269, 8270]
701	[1269, 1270]	3105	[1575, 4233]	5509	[571, 2025]	7913	[5988, 3886]
702	[1271, 1272]	3106	[4234, 4235]	5510	[1574, 3994]	7914	[8271, 4104]
703	[1273, 1274]	3107	[3594, 4236]	5511	[6343, 4398]	7915	[3475, 3740]
704	[1275, 1276]	3108	[2180, 1516]	5512	[6344, 3579]	7916	[8272, 626]
705	[1277, 1278]	3109	[3783, 2134]	5513	[6345, 1914]	7917	[8273, 47]
706	[1279, 1280]	3110	[4237, 1514]	5514	[1547, 187]	7918	[3774, 1626]

707	[96, 1281]	3111	[791, 1860]	5515	[6346, 6347]	7919	[2139, 1714]
708	[1282, 1238]	3112	[4238, 724]	5516	[1512, 1512]	7920	[8274, 3513]
709	[1283, 1284]	3113	[2113, 173]	5517	[6348, 3598]	7921	[8275, 3468]
710	[1285, 1286]	3114	[4239, 580]	5518	[6349, 145]	7922	[8276, 2186]
711	[1287, 1288]	3115	[1567, 3613]	5519	[6350, 6351]	7923	[3597, 5680]
712	[1289, 1290]	3116	[2211, 456]	5520	[6352, 780]	7924	[6218, 3841]
713	[1291, 305]	3117	[4179, 4240]	5521	[6353, 4224]	7925	[8277, 3502]
714	[1292, 1293]	3118	[4241, 47]	5522	[6354, 6355]	7926	[8278, 7264]
715	[1294, 238]	3119	[4242, 3872]	5523	[6356, 6308]	7927	[8279, 7666]
716	[1295, 1296]	3120	[1712, 2178]	5524	[6357, 3707]	7928	[8280, 6159]
717	[1297, 1298]	3121	[4243, 1938]	5525	[6358, 5922]	7929	[8281, 6074]
718	[1299, 1300]	3122	[3545, 676]	5526	[3889, 3887]	7930	[4062, 6192]
719	[1194, 1301]	3123	[4244, 3730]	5527	[6359, 5802]	7931	[8282, 3726]
720	[1302, 1303]	3124	[4098, 3841]	5528	[6101, 1741]	7932	[2141, 3914]
721	[1304, 1305]	3125	[4245, 1938]	5529	[6360, 3465]	7933	[8283, 6123]
722	[1306, 1307]	3126	[2084, 1866]	5530	[6361, 1527]	7934	[8284, 6138]
723	[1308, 1309]	3127	[1566, 1916]	5531	[1928, 4466]	7935	[3849, 2106]
724	[1310, 1311]	3128	[637, 4246]	5532	[6362, 1804]	7936	[4371, 3701]
725	[1312, 1313]	3129	[590, 1694]	5533	[6363, 795]	7937	[8285, 3741]
726	[1314, 1315]	3130	[592, 1896]	5534	[211, 3822]	7938	[8286, 5867]
727	[1316, 1317]	3131	[4247, 667]	5535	[6364, 3979]	7939	[8287, 6351]
728	[291, 1318]	3132	[3966, 1584]	5536	[6365, 3626]	7940	[8288, 1477]
729	[1319, 313]	3133	[4248, 1443]	5537	[6366, 6367]	7941	[8289, 2]
730	[120, 1320]	3134	[58, 4249]	5538	[6368, 663]	7942	[8290, 3783]
731	[1321, 1322]	3135	[4250, 3783]	5539	[6369, 3604]	7943	[7591, 231]
732	[1323, 1324]	3136	[700, 3935]	5540	[6370, 5744]	7944	[8291, 6367]
733	[1325, 74]	3137	[4251, 1594]	5541	[5668, 6371]	7945	[8292, 2221]
734	[1326, 1327]	3138	[2105, 3697]	5542	[6372, 6373]	7946	[4326, 1958]
735	[1122, 1328]	3139	[4252, 3561]	5543	[535, 3575]	7947	[8293, 728]
736	[79, 1329]	3140	[2080, 4253]	5544	[6374, 6375]	7948	[7385, 2116]
737	[1330, 1331]	3141	[4254, 1531]	5545	[6376, 635]	7949	[8294, 2152]
738	[401, 1332]	3142	[4255, 4156]	5546	[6085, 6377]	7950	[208, 5986]
739	[1333, 311]	3143	[4256, 500]	5547	[6378, 3601]	7951	[6043, 6406]
740	[1334, 1335]	3144	[3516, 4088]	5548	[719, 5675]	7952	[8295, 530]
741	[1336, 1337]	3145	[4257, 1864]	5549	[6379, 5949]	7953	[6205, 3525]
742	[1338, 1339]	3146	[4258, 1940]	5550	[6380, 6043]	7954	[8296, 8297]
743	[1340, 1341]	3147	[4259, 3951]	5551	[6381, 1903]	7955	[8298, 6133]
744	[1342, 1301]	3148	[2001, 4055]	5552	[6382, 2037]	7956	[7543, 1805]
745	[1343, 1344]	3149	[4260, 4214]	5553	[1748, 1506]	7957	[8299, 7504]
746	[1345, 1346]	3150	[4261, 3803]	5554	[6383, 12]	7958	[8300, 6178]
747	[1347, 1348]	3151	[736, 1516]	5555	[3903, 1623]	7959	[6092, 4249]
748	[1349, 1350]	3152	[4051, 801]	5556	[4171, 3883]	7960	[8301, 6169]
749	[1351, 1352]	3153	[2008, 4262]	5557	[5753, 6207]	7961	[8302, 635]
750	[1353, 1354]	3154	[2077, 3699]	5558	[4172, 2087]	7962	[8303, 5751]

751	[1355, 1356]	3155	[4263, 1704]	5559	[6384, 1687]	7963	[8304, 559]
752	[1357, 1286]	3156	[727, 4264]	5560	[4230, 5977]	7964	[8305, 3748]
753	[1358, 1080]	3157	[4063, 516]	5561	[6385, 4065]	7965	[8306, 5677]
754	[1359, 1360]	3158	[4265, 2106]	5562	[3598, 2195]	7966	[8307, 2152]
755	[1361, 1362]	3159	[4266, 790]	5563	[6386, 6387]	7967	[8308, 1932]
756	[1363, 1364]	3160	[4267, 3509]	5564	[6388, 225]	7968	[8309, 2222]
757	[1365, 1366]	3161	[2050, 1711]	5565	[6298, 533]	7969	[5957, 1889]
758	[315, 1367]	3162	[4268, 4269]	5566	[152, 620]	7970	[8310, 6006]
759	[1368, 1369]	3163	[2089, 1655]	5567	[443, 1476]	7971	[8311, 2154]
760	[1219, 1370]	3164	[1612, 4270]	5568	[6389, 32]	7972	[8312, 6140]
761	[1371, 808]	3165	[4271, 3707]	5569	[6390, 1574]	7973	[4141, 4053]
762	[1372, 1373]	3166	[4272, 4122]	5570	[3570, 6010]	7974	[3754, 3946]
763	[1374, 1375]	3167	[4273, 1480]	5571	[6391, 3455]	7975	[5748, 1666]
764	[1376, 1377]	3168	[4274, 712]	5572	[6392, 687]	7976	[8313, 8119]
765	[1378, 1379]	3169	[2124, 1988]	5573	[2128, 4452]	7977	[8314, 4447]
766	[1062, 1380]	3170	[4275, 3615]	5574	[1621, 1795]	7978	[4080, 1802]
767	[1381, 1382]	3171	[231, 4276]	5575	[6393, 6225]	7979	[1735, 1919]
768	[768, 768]	3172	[4277, 4278]	5576	[1913, 3822]	7980	[8315, 3696]
769	[1010, 852]	3173	[4279, 4280]	5577	[6394, 6395]	7981	[8316, 6128]
770	[1383, 1350]	3174	[4281, 4113]	5578	[720, 5891]	7982	[8317, 3784]
771	[1384, 1385]	3175	[4282, 448]	5579	[3839, 209]	7983	[7352, 1589]
772	[1386, 1387]	3176	[4283, 3847]	5580	[6396, 759]	7984	[8318, 2201]
773	[1253, 1388]	3177	[3790, 4284]	5581	[6397, 2094]	7985	[8319, 8201]
774	[1389, 1390]	3178	[4285, 4286]	5582	[6398, 1817]	7986	[604, 600]
775	[1391, 1392]	3179	[1955, 1790]	5583	[583, 3849]	7987	[7556, 1444]
776	[1393, 1394]	3180	[4287, 4007]	5584	[614, 570]	7988	[8320, 2101]
777	[1395, 1396]	3181	[4288, 4289]	5585	[6399, 3783]	7989	[8321, 4244]
778	[1397, 1398]	3182	[4290, 4291]	5586	[6400, 3663]	7990	[7369, 147]
779	[1399, 1400]	3183	[1975, 3525]	5587	[2199, 632]	7991	[8322, 3776]
780	[1401, 1402]	3184	[3432, 619]	5588	[6401, 5667]	7992	[8323, 4425]
781	[1403, 1404]	3185	[4292, 3988]	5589	[4274, 676]	7993	[4215, 6159]
782	[1212, 1405]	3186	[2208, 3643]	5590	[6402, 5919]	7994	[8324, 501]
783	[1406, 1407]	3187	[4293, 759]	5591	[3662, 227]	7995	[4014, 3817]
784	[1089, 1408]	3188	[4294, 4295]	5592	[5690, 2153]	7996	[8325, 6029]
785	[1409, 1410]	3189	[4296, 3482]	5593	[6403, 536]	7997	[7605, 786]
786	[1411, 1412]	3190	[4297, 1617]	5594	[6404, 4102]	7998	[8326, 5772]
787	[1413, 816]	3191	[4298, 1745]	5595	[6405, 6406]	7999	[8327, 7342]
788	[1414, 1415]	3192	[4299, 4137]	5596	[6407, 6408]	8000	[8328, 3588]
789	[1416, 1417]	3193	[4300, 666]	5597	[4132, 216]	8001	[8329, 8177]
790	[1418, 1419]	3194	[595, 3913]	5598	[6409, 2041]	8002	[8330, 3576]
791	[1420, 1421]	3195	[4301, 4179]	5599	[6410, 4144]	8003	[8331, 145]
792	[1422, 1423]	3196	[4302, 455]	5600	[6411, 606]	8004	[8332, 3726]
793	[1424, 1425]	3197	[3909, 1556]	5601	[4307, 4466]	8005	[8333, 1756]
794	[1426, 1225]	3198	[4303, 1878]	5602	[6412, 1568]	8006	[8334, 7627]

795	[1427, 1428]	3199	[527, 1666]	5603	[3522, 4358]	8007	[8335, 1691]
796	[1429, 1430]	3200	[2041, 4304]	5604	[3992, 528]	8008	[8336, 4304]
797	[1431, 1432]	3201	[4305, 477]	5605	[6413, 5949]	8009	[8337, 7246]
798	[1433, 1434]	3202	[4306, 4214]	5606	[6414, 1495]	8010	[8338, 2036]
799	[1083, 1435]	3203	[139, 4165]	5607	[3845, 4111]	8011	[13, 562]
800	[1436, 1437]	3204	[131, 3638]	5608	[6415, 5955]	8012	[8339, 1658]
801	[1210, 1438]	3205	[4307, 2151]	5609	[3751, 3804]	8013	[8340, 3580]
802	[1439, 955]	3206	[144, 3857]	5610	[6416, 1725]	8014	[8341, 7622]
803	[1440, 1441]	3207	[4308, 1796]	5611	[6417, 3758]	8015	[1823, 2228]
804	[1442, 1443]	3208	[4309, 3580]	5612	[6418, 162]	8016	[8342, 3746]
805	[1444, 1445]	3209	[4310, 4311]	5613	[2052, 6419]	8017	[8343, 6068]
806	[1446, 509]	3210	[3437, 4312]	5614	[6420, 3615]	8018	[8344, 3759]
807	[1447, 1448]	3211	[4313, 192]	5615	[1977, 3726]	8019	[8345, 4065]
808	[1449, 57]	3212	[2217, 3454]	5616	[6421, 6422]	8020	[8346, 4185]
809	[525, 483]	3213	[4314, 509]	5617	[6423, 2226]	8021	[8347, 3738]
810	[1450, 444]	3214	[2080, 4315]	5618	[3716, 6424]	8022	[8348, 3843]
811	[1451, 1452]	3215	[4316, 4196]	5619	[6425, 1830]	8023	[8349, 6091]
812	[1453, 1454]	3216	[3985, 53]	5620	[6426, 511]	8024	[8350, 1884]
813	[1455, 1456]	3217	[4317, 4291]	5621	[521, 3965]	8025	[8351, 2]
814	[1457, 750]	3218	[4272, 2092]	5622	[6427, 1657]	8026	[8352, 8270]
815	[788, 1458]	3219	[4318, 1480]	5623	[4327, 1741]	8027	[8353, 690]
816	[1459, 1448]	3220	[4319, 551]	5624	[6428, 1671]	8028	[1786, 449]
817	[1460, 1461]	3221	[3634, 3548]	5625	[6429, 222]	8029	[8354, 14]
818	[1462, 218]	3222	[4320, 3904]	5626	[6035, 740]	8030	[5854, 4224]
819	[144, 1463]	3223	[4175, 4220]	5627	[6430, 3880]	8031	[8355, 2182]
820	[1464, 1465]	3224	[4321, 4322]	5628	[6431, 6432]	8032	[4402, 4262]
821	[558, 1466]	3225	[3445, 1578]	5629	[6433, 5696]	8033	[8356, 2168]
822	[1467, 1468]	3226	[4323, 1766]	5630	[4416, 3926]	8034	[8357, 3886]
823	[1469, 203]	3227	[4070, 4324]	5631	[6434, 3707]	8035	[8358, 561]
824	[1470, 1471]	3228	[4325, 4226]	5632	[3743, 4284]	8036	[8359, 3882]
825	[1472, 1473]	3229	[1709, 620]	5633	[3723, 6435]	8037	[8360, 3739]
826	[1474, 481]	3230	[4326, 3549]	5634	[6436, 3984]	8038	[8361, 3893]
827	[748, 1475]	3231	[454, 3849]	5635	[6437, 1590]	8039	[8362, 3723]
828	[1450, 1476]	3232	[1, 545]	5636	[6438, 6439]	8040	[8363, 176]
829	[565, 731]	3233	[479, 4098]	5637	[6440, 2047]	8041	[8364, 6174]
830	[1477, 1478]	3234	[4327, 465]	5638	[611, 3550]	8042	[8365, 3980]
831	[1479, 190]	3235	[4328, 36]	5639	[6441, 6133]	8043	[8366, 3591]
832	[1480, 1481]	3236	[3863, 227]	5640	[1483, 1768]	8044	[8367, 548]
833	[1482, 1483]	3237	[4329, 4330]	5641	[1601, 634]	8045	[8368, 5888]
834	[1484, 1463]	3238	[4331, 3689]	5642	[6442, 3468]	8046	[8369, 7356]
835	[1485, 1486]	3239	[4093, 4332]	5643	[6443, 1995]	8047	[8370, 655]
836	[1487, 140]	3240	[725, 4333]	5644	[537, 4459]	8048	[8371, 40]
837	[1488, 1489]	3241	[4334, 1718]	5645	[766, 3719]	8049	[8372, 4279]
838	[33, 1490]	3242	[4000, 701]	5646	[6444, 1868]	8050	[8373, 6342]

839	[1491, 1492]	3243	[4335, 1470]	5647	[3477, 6336]	8051	[7311, 217]
840	[1493, 1494]	3244	[4336, 3897]	5648	[6410, 3462]	8052	[8374, 2044]
841	[1495, 1496]	3245	[4337, 4338]	5649	[3917, 122]	8053	[8375, 2050]
842	[1497, 1498]	3246	[4339, 1631]	5650	[6445, 1718]	8054	[8376, 1744]
843	[1499, 1500]	3247	[3749, 3882]	5651	[6239, 5841]	8055	[8377, 6377]
844	[1501, 1502]	3248	[4340, 764]	5652	[6446, 695]	8056	[6146, 4075]
845	[1503, 1504]	3249	[3692, 449]	5653	[6447, 1618]	8057	[8378, 1977]
846	[1505, 712]	3250	[4341, 4342]	5654	[6448, 5867]	8058	[8379, 5736]
847	[1477, 1506]	3251	[4040, 2086]	5655	[6449, 655]	8059	[4319, 1967]
848	[1507, 471]	3252	[4343, 3509]	5656	[6450, 6375]	8060	[4055, 1715]
849	[1508, 1465]	3253	[1549, 4228]	5657	[6451, 6452]	8061	[216, 3586]
850	[1509, 469]	3254	[4344, 3477]	5658	[6453, 3979]	8062	[8380, 5811]
851	[1510, 1511]	3255	[4345, 3581]	5659	[3569, 6454]	8063	[8381, 3607]
852	[1511, 43]	3256	[3826, 592]	5660	[6455, 1013]	8064	[8382, 4186]
853	[768, 1512]	3257	[4346, 626]	5661	[3087, 1329]	8065	[1792, 14]
854	[1513, 161]	3258	[4347, 518]	5662	[4844, 3024]	8066	[3683, 4128]
855	[1514, 1504]	3259	[4348, 3509]	5663	[6456, 1352]	8067	[2034, 2060]
856	[1515, 1516]	3260	[4349, 578]	5664	[6457, 6458]	8068	[8383, 3866]
857	[229, 1517]	3261	[2221, 4350]	5665	[6459, 4901]	8069	[5675, 1747]
858	[1518, 1519]	3262	[57, 4351]	5666	[6460, 2312]	8070	[3982, 1988]
859	[1520, 1521]	3263	[4352, 1574]	5667	[6461, 6462]	8071	[8384, 5757]
860	[1522, 1523]	3264	[4353, 60]	5668	[6463, 6464]	8072	[8385, 745]
861	[1524, 1525]	3265	[4354, 3748]	5669	[5048, 5551]	8073	[8386, 2102]
862	[1526, 1527]	3266	[1632, 41]	5670	[1114, 6465]	8074	[8387, 3556]
863	[1528, 1529]	3267	[4355, 4356]	5671	[6466, 5429]	8075	[8388, 6151]
864	[1530, 1531]	3268	[4357, 4358]	5672	[4861, 3398]	8076	[8389, 1957]
865	[1532, 1533]	3269	[4359, 1909]	5673	[2941, 904]	8077	[3757, 4016]
866	[1534, 34]	3270	[4050, 4360]	5674	[4770, 5240]	8078	[8390, 4001]
867	[1535, 1536]	3271	[4361, 1870]	5675	[3315, 3067]	8079	[8391, 2191]
868	[199, 1537]	3272	[3936, 4108]	5676	[6467, 811]	8080	[8392, 3626]
869	[1538, 581]	3273	[1563, 618]	5677	[5513, 6468]	8081	[8393, 1757]
870	[1539, 1540]	3274	[1493, 2044]	5678	[6469, 961]	8082	[8394, 6232]
871	[1541, 1542]	3275	[4362, 4258]	5679	[6470, 6471]	8083	[8395, 6048]
872	[1543, 587]	3276	[4363, 4364]	5680	[3251, 6472]	8084	[8396, 1635]
873	[1544, 745]	3277	[3878, 3587]	5681	[6473, 1027]	8085	[8397, 4412]
874	[1545, 1546]	3278	[4365, 3545]	5682	[939, 2535]	8086	[8398, 1953]
875	[1547, 1548]	3279	[4107, 3634]	5683	[6474, 2609]	8087	[8399, 1753]
876	[1549, 1550]	3280	[4366, 1820]	5684	[3242, 846]	8088	[8400, 3916]
877	[1551, 1552]	3281	[2008, 3529]	5685	[5278, 6475]	8089	[5946, 4233]
878	[1553, 1554]	3282	[4367, 1872]	5686	[6476, 5504]	8090	[8395, 6232]
879	[1555, 150]	3283	[4368, 4369]	5687	[6477, 6478]	8091	[8401, 4432]
880	[539, 1556]	3284	[4370, 3965]	5688	[6479, 5280]	8092	[8402, 5738]
881	[543, 1557]	3285	[4371, 709]	5689	[1167, 5213]	8093	[749, 3602]
882	[731, 1558]	3286	[3682, 3814]	5690	[6480, 1340]	8094	[3934, 1490]

883	[1559, 1560]	3287	[4372, 1866]	5691	[6481, 2738]	8095	[8403, 7657]
884	[1561, 1562]	3288	[4373, 1537]	5692	[2457, 6482]	8096	[8404, 1603]
885	[1563, 1564]	3289	[1557, 3579]	5693	[6483, 6484]	8097	[8405, 5764]
886	[1565, 1566]	3290	[4374, 4375]	5694	[6485, 6486]	8098	[5912, 4262]
887	[1567, 1568]	3291	[3710, 620]	5695	[6487, 1233]	8099	[8406, 5847]
888	[1542, 653]	3292	[4376, 2177]	5696	[6488, 5263]	8100	[8407, 5888]
889	[1569, 1570]	3293	[4152, 4377]	5697	[6489, 2323]	8101	[8408, 4355]
890	[1571, 1572]	3294	[4378, 1909]	5698	[4577, 5110]	8102	[8409, 263]
891	[1573, 1574]	3295	[4379, 596]	5699	[901, 5587]	8103	[8410, 8411]
892	[1575, 1576]	3296	[3620, 3536]	5700	[4750, 6490]	8104	[8412, 1339]
893	[705, 49]	3297	[4380, 1549]	5701	[6491, 1315]	8105	[8413, 807]
894	[1577, 1578]	3298	[481, 1713]	5702	[6492, 6493]	8106	[8414, 8415]
895	[1579, 1580]	3299	[4381, 671]	5703	[4527, 6494]	8107	[2932, 8416]
896	[1581, 1478]	3300	[4382, 1596]	5704	[6495, 3405]	8108	[2404, 3325]
897	[1582, 725]	3301	[2149, 2128]	5705	[6496, 2375]	8109	[8417, 2559]
898	[1583, 1584]	3302	[4383, 759]	5706	[2292, 2568]	8110	[8418, 2507]
899	[1585, 1586]	3303	[4384, 691]	5707	[6497, 1272]	8111	[8419, 4807]
900	[1587, 1588]	3304	[213, 160]	5708	[6498, 5334]	8112	[8420, 6814]
901	[1589, 1590]	3305	[1801, 4385]	5709	[6499, 6500]	8113	[5449, 852]
902	[1591, 1592]	3306	[4386, 2004]	5710	[3420, 6501]	8114	[3005, 8421]
903	[1593, 1594]	3307	[4387, 3952]	5711	[6502, 2504]	8115	[8422, 5327]
904	[1595, 1596]	3308	[4388, 1964]	5712	[2763, 3067]	8116	[2526, 8423]
905	[545, 1597]	3309	[4163, 40]	5713	[6503, 4817]	8117	[7019, 4507]
906	[1598, 189]	3310	[4389, 4390]	5714	[6504, 6505]	8118	[8424, 8425]
907	[1599, 1600]	3311	[4391, 2083]	5715	[5397, 999]	8119	[8426, 2371]
908	[1601, 1602]	3312	[3545, 712]	5716	[4763, 297]	8120	[2785, 8427]
909	[1603, 1604]	3313	[1951, 4392]	5717	[6506, 2457]	8121	[8428, 238]
910	[1605, 1606]	3314	[4393, 151]	5718	[6507, 2336]	8122	[8429, 8430]
911	[1607, 725]	3315	[4394, 1704]	5719	[5320, 234]	8123	[2587, 5067]
912	[1608, 1609]	3316	[4395, 657]	5720	[5168, 4516]	8124	[8431, 5586]
913	[1610, 1611]	3317	[2037, 786]	5721	[6508, 1261]	8125	[8432, 325]
914	[1612, 1613]	3318	[4396, 541]	5722	[6509, 1295]	8126	[8433, 4877]
915	[1614, 1615]	3319	[733, 4397]	5723	[6510, 2889]	8127	[398, 3318]
916	[1616, 1617]	3320	[1700, 764]	5724	[6511, 3273]	8128	[8434, 2638]
917	[623, 1522]	3321	[1704, 14]	5725	[2410, 6512]	8129	[6751, 3230]
918	[1618, 1619]	3322	[4398, 4399]	5726	[2649, 6513]	8130	[4760, 4525]
919	[1620, 1621]	3323	[4400, 4330]	5727	[6514, 6501]	8131	[8435, 6776]
920	[1622, 1623]	3324	[4401, 4402]	5728	[6515, 2462]	8132	[5603, 4711]
921	[502, 1624]	3325	[3603, 1675]	5729	[5150, 908]	8133	[3180, 1355]
922	[1625, 1626]	3326	[4403, 44]	5730	[6516, 1019]	8134	[2341, 85]
923	[1627, 1552]	3327	[128, 2228]	5731	[6517, 6518]	8135	[4574, 3286]
924	[1628, 1629]	3328	[4404, 1549]	5732	[6519, 5119]	8136	[8436, 5567]
925	[1630, 1631]	3329	[4108, 3635]	5733	[6520, 5456]	8137	[8437, 2656]
926	[1632, 1633]	3330	[4368, 4405]	5734	[6521, 5078]	8138	[5339, 2675]

927	[226, 1634]	3331	[4406, 1760]	5735	[2367, 6522]	8139	[5045, 8438]
928	[1635, 1636]	3332	[3559, 1936]	5736	[6523, 3356]	8140	[836, 7838]
929	[1637, 1536]	3333	[4407, 4106]	5737	[6524, 2863]	8141	[8439, 3023]
930	[1638, 618]	3334	[3569, 4408]	5738	[6525, 1383]	8142	[8440, 4497]
931	[1639, 1640]	3335	[4409, 2070]	5739	[6526, 1038]	8143	[5080, 413]
932	[1557, 1641]	3336	[1723, 2171]	5740	[6527, 6528]	8144	[8441, 6758]
933	[1642, 1643]	3337	[4410, 60]	5741	[2880, 2907]	8145	[8442, 6916]
934	[1644, 1645]	3338	[1444, 3798]	5742	[6529, 6530]	8146	[2769, 6543]
935	[765, 1542]	3339	[3984, 1625]	5743	[6531, 422]	8147	[6486, 8443]
936	[1646, 1647]	3340	[4411, 4412]	5744	[6532, 6533]	8148	[82, 8089]
937	[1648, 1649]	3341	[756, 642]	5745	[6534, 6535]	8149	[7955, 8444]
938	[1471, 1578]	3342	[3530, 4091]	5746	[2376, 6536]	8150	[8445, 4834]
939	[1650, 1489]	3343	[4413, 4414]	5747	[6537, 5526]	8151	[2352, 7866]
940	[1651, 1652]	3344	[1774, 1786]	5748	[2516, 1439]	8152	[8446, 8423]
941	[1653, 1498]	3345	[4415, 771]	5749	[3194, 382]	8153	[4801, 8447]
942	[1654, 1655]	3346	[4416, 4417]	5750	[6538, 5164]	8154	[8448, 1160]
943	[1656, 1657]	3347	[4418, 3735]	5751	[4692, 5198]	8155	[8449, 3357]
944	[1658, 1659]	3348	[4419, 1562]	5752	[6539, 1185]	8156	[2355, 6979]
945	[1660, 1552]	3349	[1491, 2063]	5753	[3037, 6540]	8157	[5659, 4538]
946	[537, 594]	3350	[3524, 1976]	5754	[4864, 2952]	8158	[8450, 5602]
947	[1661, 1662]	3351	[3740, 703]	5755	[6541, 6542]	8159	[365, 8451]
948	[1583, 571]	3352	[222, 4420]	5756	[4954, 6543]	8160	[8452, 8453]
949	[1663, 1566]	3353	[4421, 4422]	5757	[6544, 2241]	8161	[8454, 5093]
950	[1664, 668]	3354	[3981, 2146]	5758	[3281, 6545]	8162	[8455, 8456]
951	[1665, 662]	3355	[3515, 4187]	5759	[6546, 5435]	8163	[5032, 8457]
952	[159, 1666]	3356	[4029, 1522]	5760	[6547, 3354]	8164	[4931, 850]
953	[1667, 1668]	3357	[3882, 2185]	5761	[5356, 6548]	8165	[8458, 8459]
954	[1669, 646]	3358	[4423, 4369]	5762	[6549, 2617]	8166	[8460, 8461]
955	[1448, 1475]	3359	[708, 3701]	5763	[6550, 6551]	8167	[5618, 1064]
956	[1670, 1671]	3360	[715, 3886]	5764	[6552, 6553]	8168	[5606, 8462]
957	[1672, 57]	3361	[4424, 1878]	5765	[6554, 2287]	8169	[8463, 4729]
958	[156, 1673]	3362	[2182, 617]	5766	[6555, 6556]	8170	[3033, 8464]
959	[1674, 758]	3363	[4425, 4426]	5767	[6557, 3213]	8171	[8465, 4860]
960	[1580, 1675]	3364	[54, 3687]	5768	[2981, 2603]	8172	[1304, 8055]
961	[1676, 571]	3365	[4427, 2086]	5769	[6558, 1181]	8173	[8466, 5178]
962	[733, 573]	3366	[511, 4428]	5770	[2586, 6559]	8174	[855, 2752]
963	[1677, 1594]	3367	[4429, 4430]	5771	[6560, 985]	8175	[1269, 965]
964	[1448, 200]	3368	[492, 4004]	5772	[6561, 1395]	8176	[8467, 8070]
965	[1678, 1679]	3369	[1580, 3604]	5773	[6562, 809]	8177	[1188, 8468]
966	[1680, 217]	3370	[3949, 3717]	5774	[6563, 2326]	8178	[8469, 8470]
967	[8, 1657]	3371	[4431, 1443]	5775	[6564, 4802]	8179	[8471, 2611]
968	[1681, 158]	3372	[4110, 1525]	5776	[6565, 1252]	8180	[8472, 963]
969	[55, 1682]	3373	[4432, 4433]	5777	[1191, 3112]	8181	[8473, 380]
970	[1683, 131]	3374	[4434, 140]	5778	[6566, 1166]	8182	[8474, 2871]

971	[652, 1684]	3375	[1814, 3575]	5779	[6567, 4636]	8183	[3430, 818]
972	[795, 1685]	3376	[133, 1844]	5780	[6568, 6500]	8184	[8475, 1155]
973	[1686, 1687]	3377	[4435, 4436]	5781	[6569, 3213]	8185	[8476, 2398]
974	[1688, 1689]	3378	[4437, 2070]	5782	[6570, 2601]	8186	[8477, 2369]
975	[1690, 529]	3379	[4438, 51]	5783	[2504, 4631]	8187	[8478, 5586]
976	[1691, 1692]	3380	[1532, 4011]	5784	[2900, 433]	8188	[8479, 4566]
977	[1693, 1694]	3381	[4439, 4440]	5785	[6571, 2663]	8189	[8480, 5513]
978	[1695, 159]	3382	[4441, 4004]	5786	[1351, 6572]	8190	[8481, 78]
979	[1696, 1697]	3383	[1946, 4442]	5787	[3383, 6573]	8191	[8482, 3160]
980	[569, 1698]	3384	[4443, 1708]	5788	[4845, 3025]	8192	[8483, 4814]
981	[1699, 1700]	3385	[4444, 1445]	5789	[6574, 4935]	8193	[8484, 2853]
982	[1701, 541]	3386	[543, 3778]	5790	[6575, 5260]	8194	[2336, 3114]
983	[1702, 671]	3387	[4445, 161]	5791	[5638, 2362]	8195	[5167, 63]
984	[1703, 1704]	3388	[3703, 1589]	5792	[1206, 2623]	8196	[2557, 7753]
985	[607, 1705]	3389	[4446, 4447]	5793	[6576, 2765]	8197	[8485, 1137]
986	[1473, 1706]	3390	[1710, 2039]	5794	[5166, 6577]	8198	[249, 3196]
987	[1707, 1708]	3391	[4127, 3467]	5795	[6578, 254]	8199	[3321, 6672]
988	[1709, 153]	3392	[4448, 4449]	5796	[6579, 6580]	8200	[8486, 5105]
989	[1710, 1711]	3393	[4450, 138]	5797	[1242, 5421]	8201	[5340, 7808]
990	[1712, 705]	3394	[204, 3763]	5798	[6581, 6582]	8202	[8487, 1076]
991	[1713, 1679]	3395	[3549, 3815]	5799	[2509, 2405]	8203	[8488, 1306]
992	[790, 551]	3396	[4451, 1824]	5800	[6583, 6584]	8204	[8489, 1148]
993	[1714, 1590]	3397	[3554, 1835]	5801	[6585, 1302]	8205	[7058, 3287]
994	[1715, 1716]	3398	[4452, 2092]	5802	[6586, 6587]	8206	[5629, 8490]
995	[1717, 469]	3399	[530, 3897]	5803	[6588, 6589]	8207	[8491, 3007]
996	[1718, 1719]	3400	[4453, 4193]	5804	[6590, 6591]	8208	[2956, 8492]
997	[1720, 1721]	3401	[1490, 4454]	5805	[6592, 6593]	8209	[8493, 1261]
998	[1722, 1723]	3402	[4390, 4455]	5806	[6594, 4844]	8210	[2805, 5444]
999	[1724, 475]	3403	[4456, 2006]	5807	[6484, 2696]	8211	[8494, 264]
1000	[1725, 1726]	3404	[4457, 3904]	5808	[6486, 6595]	8212	[2527, 961]
1001	[1727, 1728]	3405	[206, 3952]	5809	[4522, 1142]	8213	[5317, 6620]
1002	[183, 1729]	3406	[4458, 1624]	5810	[3175, 814]	8214	[8495, 1175]
1003	[1730, 1517]	3407	[1949, 4459]	5811	[6596, 2354]	8215	[8496, 5116]
1004	[1731, 1732]	3408	[4460, 4461]	5812	[6597, 373]	8216	[6642, 4756]
1005	[1711, 1733]	3409	[4351, 2198]	5813	[6598, 6599]	8217	[8497, 2712]
1006	[1734, 1706]	3410	[3601, 194]	5814	[6600, 2284]	8218	[8498, 5124]
1007	[1735, 1736]	3411	[4462, 584]	5815	[6601, 6602]	8219	[8499, 2475]
1008	[662, 1737]	3412	[547, 3907]	5816	[6477, 6603]	8220	[8500, 1112]
1009	[1689, 1511]	3413	[4463, 1751]	5817	[4603, 6604]	8221	[8501, 8502]
1010	[1738, 768]	3414	[4464, 1615]	5818	[6605, 29]	8222	[8503, 8504]
1011	[1739, 1740]	3415	[4465, 4466]	5819	[6606, 2504]	8223	[2552, 8505]
1012	[464, 1741]	3416	[450, 4276]	5820	[6607, 6608]	8224	[8506, 4613]
1013	[1455, 178]	3417	[4467, 2077]	5821	[6609, 257]	8225	[8507, 3363]
1014	[176, 1742]	3418	[4468, 4203]	5822	[6610, 6611]	8226	[8508, 2950]

1015	[1743, 1744]	3419	[4469, 1692]	5823	[5232, 2302]	8227	[8509, 5475]
1016	[1745, 140]	3420	[3667, 1881]	5824	[2280, 6612]	8228	[8510, 8511]
1017	[1746, 1747]	3421	[4298, 4434]	5825	[6613, 1128]	8229	[2964, 79]
1018	[1748, 1478]	3422	[4470, 4365]	5826	[6614, 2931]	8230	[8512, 8427]
1019	[759, 507]	3423	[4471, 2177]	5827	[6615, 3205]	8231	[8513, 855]
1020	[755, 580]	3424	[4472, 4440]	5828	[6616, 2772]	8232	[8514, 119]
1021	[1711, 1749]	3425	[1952, 4473]	5829	[6617, 276]	8233	[4516, 8515]
1022	[1750, 1751]	3426	[4474, 3988]	5830	[6618, 1020]	8234	[8516, 971]
1023	[1752, 672]	3427	[4157, 1778]	5831	[6619, 5290]	8235	[8517, 6692]
1024	[1753, 535]	3428	[3819, 2124]	5832	[1388, 3412]	8236	[2591, 5096]
1025	[1754, 1755]	3429	[2004, 4475]	5833	[6620, 1376]	8237	[8518, 8059]
1026	[1756, 1617]	3430	[3647, 2126]	5834	[6621, 300]	8238	[8519, 251]
1027	[1757, 1758]	3431	[4476, 1123]	5835	[5204, 5308]	8239	[8520, 5234]
1028	[1759, 1760]	3432	[4477, 293]	5836	[3244, 6622]	8240	[8521, 2472]
1029	[1761, 1762]	3433	[4478, 2314]	5837	[3360, 2700]	8241	[4890, 7023]
1030	[1763, 1764]	3434	[4479, 1025]	5838	[1220, 6623]	8242	[8522, 6493]
1031	[1765, 1766]	3435	[2433, 4480]	5839	[6624, 5203]	8243	[8523, 5632]
1032	[1767, 1768]	3436	[2407, 4481]	5840	[6625, 3069]	8244	[5386, 6608]
1033	[1769, 1723]	3437	[4482, 4483]	5841	[6626, 6627]	8245	[5199, 2687]
1034	[626, 1770]	3438	[4484, 4485]	5842	[1122, 5354]	8246	[2486, 8524]
1035	[1771, 588]	3439	[4486, 2943]	5843	[6628, 6551]	8247	[8525, 7740]
1036	[1772, 1773]	3440	[962, 301]	5844	[4899, 886]	8248	[8526, 2821]
1037	[1774, 149]	3441	[1272, 309]	5845	[868, 5490]	8249	[1273, 8527]
1038	[1775, 1776]	3442	[4487, 2544]	5846	[4586, 6629]	8250	[8528, 1290]
1039	[1777, 1778]	3443	[4488, 4489]	5847	[2991, 367]	8251	[6884, 8529]
1040	[552, 1779]	3444	[4490, 1411]	5848	[6630, 5272]	8252	[8530, 2634]
1041	[1780, 1781]	3445	[4491, 4492]	5849	[5054, 6631]	8253	[3247, 3356]
1042	[149, 486]	3446	[4493, 2867]	5850	[6632, 6633]	8254	[8531, 3303]
1043	[1782, 1783]	3447	[4494, 4495]	5851	[2997, 6634]	8255	[8532, 8533]
1044	[1775, 1594]	3448	[1364, 4496]	5852	[6635, 4865]	8256	[2704, 2520]
1045	[1784, 1580]	3449	[3145, 4497]	5853	[393, 3193]	8257	[8534, 7080]
1046	[1785, 55]	3450	[855, 4498]	5854	[3379, 2496]	8258	[5120, 5333]
1047	[148, 1786]	3451	[4499, 2470]	5855	[6636, 3071]	8259	[8535, 3307]
1048	[1787, 1788]	3452	[4500, 4501]	5856	[6637, 4750]	8260	[8536, 5059]
1049	[1789, 455]	3453	[4502, 2880]	5857	[6638, 6639]	8261	[2728, 3387]
1050	[1790, 1791]	3454	[4503, 4504]	5858	[6640, 1238]	8262	[8537, 2899]
1051	[1703, 1792]	3455	[4505, 4506]	5859	[5333, 3304]	8263	[20, 1149]
1052	[1793, 1794]	3456	[4507, 4508]	5860	[2835, 1400]	8264	[6921, 8538]
1053	[774, 1795]	3457	[4509, 1241]	5861	[4556, 6540]	8265	[8539, 8540]
1054	[1566, 588]	3458	[3138, 4510]	5862	[6641, 2807]	8266	[8541, 5072]
1055	[1733, 1796]	3459	[4511, 1145]	5863	[2688, 6642]	8267	[8542, 2847]
1056	[1797, 1775]	3460	[4512, 4513]	5864	[6643, 2706]	8268	[8543, 8544]
1057	[1672, 1702]	3461	[4514, 3197]	5865	[6644, 315]	8269	[8545, 2415]
1058	[1798, 1799]	3462	[1313, 4515]	5866	[6645, 65]	8270	[7909, 8546]

1059	[460, 1800]	3463	[63, 4516]	5867	[6646, 6647]	8271	[3007, 8030]
1060	[1801, 1802]	3464	[2855, 4517]	5868	[6648, 2748]	8272	[8547, 1136]
1061	[1803, 1804]	3465	[946, 4518]	5869	[6649, 2717]	8273	[8548, 2629]
1062	[1805, 784]	3466	[4519, 4520]	5870	[6650, 2586]	8274	[8549, 948]
1063	[1806, 1807]	3467	[4521, 4522]	5871	[2337, 3115]	8275	[8550, 4605]
1064	[1447, 748]	3468	[4523, 4524]	5872	[6536, 4734]	8276	[5104, 432]
1065	[1808, 1809]	3469	[4525, 4526]	5873	[6651, 5192]	8277	[8551, 4691]
1066	[1810, 448]	3470	[4527, 883]	5874	[6652, 4693]	8278	[8552, 3196]
1067	[1811, 12]	3471	[4528, 4529]	5875	[6653, 6512]	8279	[8553, 868]
1068	[1812, 1813]	3472	[2492, 1109]	5876	[6654, 998]	8280	[2841, 2877]
1069	[1814, 1723]	3473	[1066, 4530]	5877	[6655, 1414]	8281	[8554, 8456]
1070	[548, 1815]	3474	[4531, 4532]	5878	[6656, 885]	8282	[8555, 8556]
1071	[1816, 1817]	3475	[4513, 4533]	5879	[2808, 2827]	8283	[2972, 8557]
1072	[1818, 580]	3476	[4534, 2785]	5880	[6657, 3291]	8284	[8558, 1332]
1073	[682, 1451]	3477	[4535, 4536]	5881	[5438, 6658]	8285	[5079, 412]
1074	[1819, 1820]	3478	[4537, 849]	5882	[6659, 1278]	8286	[8559, 8560]
1075	[1821, 1822]	3479	[1237, 4538]	5883	[6660, 2526]	8287	[8561, 8562]
1076	[1823, 129]	3480	[4539, 4540]	5884	[6661, 5010]	8288	[8563, 8564]
1077	[1824, 1825]	3481	[271, 1042]	5885	[6662, 4561]	8289	[8565, 431]
1078	[1826, 1827]	3482	[1214, 4541]	5886	[6663, 4806]	8290	[8566, 2442]
1079	[1828, 1820]	3483	[1033, 4542]	5887	[6664, 6665]	8291	[8567, 8568]
1080	[1829, 1522]	3484	[4543, 253]	5888	[6666, 274]	8292	[8569, 3420]
1081	[1830, 9]	3485	[4544, 4545]	5889	[6667, 2311]	8293	[8570, 2870]
1082	[1831, 167]	3486	[4546, 3216]	5890	[3374, 6668]	8294	[2901, 2468]
1083	[603, 1511]	3487	[4547, 4548]	5891	[1301, 5419]	8295	[5093, 3101]
1084	[166, 769]	3488	[4549, 935]	5892	[4798, 3113]	8296	[8571, 2640]
1085	[1832, 471]	3489	[4550, 2398]	5893	[6669, 5584]	8297	[3167, 8572]
1086	[1833, 799]	3490	[4551, 3019]	5894	[6670, 1222]	8298	[8573, 4769]
1087	[1834, 43]	3491	[4552, 4553]	5895	[1179, 6538]	8299	[8574, 3327]
1088	[1511, 1835]	3492	[4554, 4555]	5896	[6671, 296]	8300	[8575, 942]
1089	[1836, 467]	3493	[3036, 4556]	5897	[2327, 6672]	8301	[2936, 2277]
1090	[1837, 1509]	3494	[4557, 4558]	5898	[6673, 6674]	8302	[4913, 7139]
1091	[1838, 167]	3495	[4559, 1436]	5899	[3033, 6675]	8303	[8576, 3034]
1092	[1837, 1839]	3496	[4560, 4561]	5900	[6676, 1211]	8304	[8577, 879]
1093	[1840, 166]	3497	[4562, 991]	5901	[4956, 931]	8305	[8578, 2354]
1094	[1509, 597]	3498	[281, 4563]	5902	[1313, 6677]	8306	[6529, 7953]
1095	[1465, 603]	3499	[4564, 3032]	5903	[6678, 6529]	8307	[2988, 2571]
1096	[469, 1836]	3500	[4565, 4528]	5904	[3351, 6679]	8308	[6532, 1035]
1097	[1841, 1842]	3501	[4566, 4567]	5905	[6580, 3123]	8309	[5470, 8579]
1098	[1540, 1843]	3502	[4568, 854]	5906	[1104, 3332]	8310	[8580, 392]
1099	[1844, 632]	3503	[4569, 259]	5907	[6680, 2779]	8311	[6819, 8581]
1100	[1845, 1846]	3504	[4570, 2841]	5908	[6681, 2349]	8312	[8582, 2854]
1101	[1847, 1848]	3505	[1205, 2622]	5909	[6682, 1092]	8313	[8583, 8556]
1102	[1849, 549]	3506	[4571, 2590]	5910	[2590, 3009]	8314	[6784, 2481]

1103	[1850, 590]	3507	[4572, 957]	5911	[6683, 6684]	8315	[6665, 1024]
1104	[1851, 666]	3508	[4573, 4574]	5912	[4834, 349]	8316	[7735, 8584]
1105	[1852, 1853]	3509	[2554, 4575]	5913	[6685, 1406]	8317	[8585, 8586]
1106	[1854, 1771]	3510	[4576, 4577]	5914	[5402, 3009]	8318	[8587, 3391]
1107	[1855, 1856]	3511	[4578, 4579]	5915	[6686, 6523]	8319	[2645, 7009]
1108	[1857, 1858]	3512	[4580, 4581]	5916	[5166, 6687]	8320	[8588, 3252]
1109	[1859, 1860]	3513	[4582, 4583]	5917	[6688, 4492]	8321	[8589, 8590]
1110	[1861, 1862]	3514	[4584, 856]	5918	[944, 2443]	8322	[4860, 4758]
1111	[1863, 1864]	3515	[4585, 4586]	5919	[6689, 3328]	8323	[8591, 5612]
1112	[1865, 1866]	3516	[4587, 2904]	5920	[2616, 2932]	8324	[8592, 5348]
1113	[1867, 1868]	3517	[4588, 4589]	5921	[6690, 2768]	8325	[8593, 2787]
1114	[1729, 1492]	3518	[4590, 2802]	5922	[6691, 3005]	8326	[8594, 7731]
1115	[1869, 1870]	3519	[304, 1440]	5923	[5243, 6692]	8327	[8595, 2490]
1116	[1871, 1872]	3520	[1329, 4591]	5924	[268, 5649]	8328	[8596, 5458]
1117	[1730, 1873]	3521	[4592, 2414]	5925	[2495, 4525]	8329	[8597, 2568]
1118	[1874, 1760]	3522	[4593, 4594]	5926	[6693, 6694]	8330	[8598, 829]
1119	[1875, 1505]	3523	[4595, 4596]	5927	[6695, 6696]	8331	[8599, 401]
1120	[1592, 1876]	3524	[1102, 1139]	5928	[6697, 3112]	8332	[8600, 8425]
1121	[1877, 1736]	3525	[1104, 4597]	5929	[6698, 1076]	8333	[3123, 2516]
1122	[1878, 1879]	3526	[4598, 320]	5930	[6699, 6700]	8334	[8601, 1122]
1123	[1880, 1881]	3527	[4599, 4600]	5931	[6701, 6702]	8335	[3260, 6910]
1124	[1882, 1883]	3528	[4601, 4602]	5932	[6703, 991]	8336	[8602, 8603]
1125	[604, 168]	3529	[4603, 4604]	5933	[6704, 260]	8337	[8604, 86]
1126	[1884, 1885]	3530	[4605, 4606]	5934	[6705, 2495]	8338	[8605, 7077]
1127	[1886, 1887]	3531	[4607, 4608]	5935	[2391, 5182]	8339	[8606, 8607]
1128	[1888, 1889]	3532	[4609, 2550]	5936	[6706, 1405]	8340	[8608, 5167]
1129	[1890, 1891]	3533	[4610, 4611]	5937	[6707, 6708]	8341	[3081, 6465]
1130	[1892, 1893]	3534	[2866, 1202]	5938	[6709, 6710]	8342	[8609, 4738]
1131	[1894, 1895]	3535	[4612, 4613]	5939	[6711, 2751]	8343	[8610, 4915]
1132	[1896, 1600]	3536	[2543, 4614]	5940	[6712, 3035]	8344	[8611, 3006]
1133	[1897, 794]	3537	[4615, 4616]	5941	[6713, 4945]	8345	[8612, 2929]
1134	[1898, 1899]	3538	[1380, 4617]	5942	[6714, 1220]	8346	[8613, 5326]
1135	[1900, 1901]	3539	[4618, 4619]	5943	[6715, 2727]	8347	[5518, 1325]
1136	[1902, 1903]	3540	[4620, 4621]	5944	[6716, 4762]	8348	[8614, 8615]
1137	[1904, 1905]	3541	[4622, 4623]	5945	[5635, 6717]	8349	[8616, 3137]
1138	[1906, 1907]	3542	[4624, 2816]	5946	[4544, 2254]	8350	[8617, 6817]
1139	[1848, 724]	3543	[822, 4625]	5947	[6718, 365]	8351	[2252, 7784]
1140	[1908, 1909]	3544	[4626, 1289]	5948	[6719, 4496]	8352	[8618, 8619]
1141	[1910, 507]	3545	[4526, 2511]	5949	[6720, 6682]	8353	[8620, 1250]
1142	[785, 1911]	3546	[4627, 3338]	5950	[6721, 2627]	8354	[3213, 5085]
1143	[1724, 1912]	3547	[2583, 2438]	5951	[6620, 6722]	8355	[8621, 7180]
1144	[1913, 1914]	3548	[4628, 4629]	5952	[6723, 968]	8356	[8622, 8623]
1145	[1915, 1916]	3549	[1112, 4630]	5953	[6724, 6725]	8357	[3234, 2939]
1146	[485, 1917]	3550	[4631, 4632]	5954	[6726, 1255]	8358	[8624, 3138]

1147	[1918, 1751]	3551	[4633, 4634]	5955	[6727, 6728]	8359	[8625, 5036]
1148	[1877, 1919]	3552	[4635, 4636]	5956	[6510, 4494]	8360	[3108, 8590]
1149	[1920, 184]	3553	[1403, 4637]	5957	[272, 6729]	8361	[8626, 407]
1150	[1863, 1921]	3554	[4638, 319]	5958	[3292, 6730]	8362	[8627, 2451]
1151	[14, 1922]	3555	[4639, 4640]	5959	[3363, 332]	8363	[8628, 340]
1152	[1923, 629]	3556	[2599, 4641]	5960	[6731, 5162]	8364	[8629, 5455]
1153	[1924, 656]	3557	[2830, 1082]	5961	[6732, 6575]	8365	[8630, 6480]
1154	[1925, 703]	3558	[85, 4642]	5962	[6733, 3033]	8366	[8631, 8451]
1155	[1926, 157]	3559	[4643, 4644]	5963	[6734, 982]	8367	[8632, 995]
1156	[1927, 642]	3560	[4645, 959]	5964	[6735, 6736]	8368	[8633, 1141]
1157	[444, 1928]	3561	[4646, 4647]	5965	[4903, 6737]	8369	[8634, 4748]
1158	[1929, 1930]	3562	[4648, 4649]	5966	[6738, 6739]	8370	[8635, 8636]
1159	[1931, 1932]	3563	[3279, 4650]	5967	[5325, 6740]	8371	[3155, 7744]
1160	[1788, 1933]	3564	[4651, 938]	5968	[967, 2926]	8372	[8637, 8638]
1161	[1934, 1935]	3565	[4652, 4653]	5969	[6741, 1059]	8373	[8639, 3252]
1162	[581, 1936]	3566	[4654, 4655]	5970	[6742, 1277]	8374	[8640, 8641]
1163	[1937, 1938]	3567	[4656, 4657]	5971	[6743, 1176]	8375	[8642, 3168]
1164	[1939, 1940]	3568	[4658, 1373]	5972	[6744, 2860]	8376	[2237, 2749]
1165	[1941, 1942]	3569	[4659, 4660]	5973	[836, 6745]	8377	[8643, 8644]
1166	[1943, 1944]	3570	[2748, 4661]	5974	[6746, 3116]	8378	[8645, 913]
1167	[1945, 1946]	3571	[4662, 4663]	5975	[2264, 5270]	8379	[8646, 8647]
1168	[1947, 670]	3572	[4664, 4665]	5976	[6747, 946]	8380	[7046, 437]
1169	[1502, 1948]	3573	[4666, 1246]	5977	[5458, 6748]	8381	[5451, 6882]
1170	[1949, 594]	3574	[4667, 4668]	5978	[5506, 1069]	8382	[8648, 4566]
1171	[1950, 1951]	3575	[2725, 4669]	5979	[5412, 5271]	8383	[8649, 5323]
1172	[1952, 1874]	3576	[4670, 4671]	5980	[6749, 881]	8384	[1014, 3281]
1173	[1953, 1662]	3577	[1110, 4672]	5981	[6750, 4755]	8385	[8650, 2718]
1174	[1954, 518]	3578	[948, 4673]	5982	[6751, 6752]	8386	[8651, 6832]
1175	[1955, 481]	3579	[986, 3298]	5983	[903, 4984]	8387	[8652, 8653]
1176	[211, 1914]	3580	[4674, 4675]	5984	[6753, 6754]	8388	[8654, 4589]
1177	[752, 162]	3581	[4612, 4676]	5985	[6755, 3171]	8389	[8655, 6629]
1178	[1596, 1860]	3582	[98, 4677]	5986	[3111, 6756]	8390	[5617, 1063]
1179	[1956, 651]	3583	[4678, 4596]	5987	[6757, 2993]	8391	[8452, 2978]
1180	[1916, 524]	3584	[4679, 4680]	5988	[6758, 6759]	8392	[8656, 6847]
1181	[1957, 1958]	3585	[1204, 4681]	5989	[5351, 6760]	8393	[3365, 2732]
1182	[1959, 545]	3586	[1286, 355]	5990	[4707, 6761]	8394	[8657, 7856]
1183	[1960, 1961]	3587	[1178, 4618]	5991	[3357, 860]	8395	[8658, 8659]
1184	[1962, 1468]	3588	[4682, 989]	5992	[6762, 2491]	8396	[8660, 2551]
1185	[37, 1572]	3589	[4683, 4684]	5993	[6763, 980]	8397	[8661, 2343]
1186	[1963, 229]	3590	[4685, 2657]	5994	[3273, 5105]	8398	[8662, 7729]
1187	[1964, 1748]	3591	[4686, 4549]	5995	[6764, 5010]	8399	[8663, 2951]
1188	[1965, 1902]	3592	[4687, 96]	5996	[1337, 882]	8400	[2541, 7995]
1189	[1966, 1967]	3593	[2598, 4688]	5997	[6765, 6766]	8401	[8664, 5622]
1190	[184, 1492]	3594	[4689, 3145]	5998	[6767, 1419]	8402	[8665, 87]

1191	[619, 153]	3595	[4690, 4691]	5999	[6768, 5472]	8403	[8666, 2735]
1192	[1968, 8]	3596	[4692, 3409]	6000	[2560, 6769]	8404	[8667, 7187]
1193	[1471, 1969]	3597	[4693, 2631]	6001	[6770, 3372]	8405	[8668, 4606]
1194	[1970, 213]	3598	[4694, 4695]	6002	[6771, 2595]	8406	[8669, 8670]
1195	[1971, 1972]	3599	[4696, 4697]	6003	[6772, 1002]	8407	[8671, 8670]
1196	[1973, 1974]	3600	[4698, 4699]	6004	[65, 6773]	8408	[8672, 3016]
1197	[1975, 1976]	3601	[4700, 3273]	6005	[6774, 6528]	8409	[8673, 795]
1198	[1977, 700]	3602	[982, 3320]	6006	[6775, 6776]	8410	[8674, 7227]
1199	[1978, 1473]	3603	[2911, 4701]	6007	[6777, 341]	8411	[4427, 3939]
1200	[1979, 213]	3604	[2454, 4702]	6008	[6778, 2482]	8412	[3939, 1756]
1201	[1540, 1596]	3605	[4703, 4704]	6009	[6779, 4789]	8413	[8675, 1613]
1202	[1980, 608]	3606	[4705, 4706]	6010	[2844, 6780]	8414	[8676, 180]
1203	[1981, 1982]	3607	[4707, 4708]	6011	[5602, 4710]	8415	[4114, 1461]
1204	[1983, 1984]	3608	[2517, 955]	6012	[1029, 2523]	8416	[4373, 3643]
1205	[1985, 1596]	3609	[4709, 957]	6013	[4877, 1378]	8417	[8677, 3450]
1206	[573, 1986]	3610	[4710, 4711]	6014	[6781, 4956]	8418	[8678, 1747]
1207	[1987, 8]	3611	[4712, 4713]	6015	[6782, 6783]	8419	[8679, 663]
1208	[1674, 1988]	3612	[4714, 3179]	6016	[5047, 6784]	8420	[8680, 1899]
1209	[1989, 691]	3613	[1272, 3253]	6017	[6785, 1312]	8421	[7349, 3770]
1210	[1990, 57]	3614	[4715, 95]	6018	[6604, 6786]	8422	[8681, 5967]
1211	[1991, 666]	3615	[4716, 3420]	6019	[2261, 232]	8423	[3624, 1815]
1212	[1992, 1568]	3616	[4654, 4717]	6020	[6786, 441]	8424	[8682, 7657]
1213	[1993, 578]	3617	[4718, 1013]	6021	[6787, 4616]	8425	[2220, 3965]
1214	[1475, 201]	3618	[904, 4719]	6022	[6788, 1300]	8426	[8683, 4074]
1215	[1994, 1995]	3619	[4720, 4721]	6023	[2320, 6789]	8427	[39, 1572]
1216	[1553, 1626]	3620	[1239, 1026]	6024	[905, 2970]	8428	[8684, 5677]
1217	[1996, 1997]	3621	[4722, 863]	6025	[6790, 5122]	8429	[8685, 3598]
1218	[694, 1998]	3622	[2935, 2547]	6026	[6791, 6792]	8430	[7341, 1604]
1219	[1999, 705]	3623	[3075, 4723]	6027	[6793, 6794]	8431	[8686, 4278]
1220	[2000, 796]	3624	[2235, 4724]	6028	[6795, 826]	8432	[8687, 4311]
1221	[2001, 487]	3625	[2736, 2375]	6029	[6796, 6797]	8433	[8688, 4090]
1222	[1895, 2002]	3626	[4725, 2707]	6030	[2419, 5132]	8434	[8689, 1907]
1223	[2003, 2004]	3627	[4726, 4727]	6031	[2798, 4555]	8435	[8690, 7448]
1224	[2005, 2006]	3628	[4728, 2339]	6032	[6798, 5622]	8436	[8691, 7213]
1225	[1592, 1536]	3629	[1388, 4729]	6033	[3369, 5295]	8437	[8692, 5802]
1226	[229, 1873]	3630	[2704, 4730]	6034	[6799, 4683]	8438	[5825, 3511]
1227	[2007, 1778]	3631	[4731, 1003]	6035	[6800, 6801]	8439	[8693, 4201]
1228	[1679, 2008]	3632	[2640, 4732]	6036	[6634, 4539]	8440	[8694, 3810]
1229	[180, 2009]	3633	[4729, 2766]	6037	[237, 3043]	8441	[8695, 5696]
1230	[2010, 1992]	3634	[4733, 4734]	6038	[1380, 6802]	8442	[8696, 1597]
1231	[2011, 1584]	3635	[4735, 3007]	6039	[6803, 27]	8443	[2065, 4454]
1232	[756, 576]	3636	[4736, 2556]	6040	[6804, 6592]	8444	[4356, 778]
1233	[2012, 522]	3637	[4737, 1003]	6041	[6805, 1338]	8445	[8697, 5728]
1234	[2013, 1743]	3638	[249, 4514]	6042	[6627, 3206]	8446	[8698, 3978]

1235	[2014, 1758]	3639	[4738, 4739]	6043	[6806, 3299]	8447	[7332, 1975]
1236	[2015, 1523]	3640	[4740, 2249]	6044	[2954, 431]	8448	[1500, 3450]
1237	[2016, 1445]	3641	[4741, 4742]	6045	[1387, 6807]	8449	[8699, 695]
1238	[2017, 2018]	3642	[4743, 3223]	6046	[6808, 3190]	8450	[8700, 3522]
1239	[2019, 1984]	3643	[3234, 4744]	6047	[6809, 5644]	8451	[1681, 3814]
1240	[2020, 1649]	3644	[77, 1042]	6048	[2536, 6810]	8452	[8701, 3697]
1241	[9, 209]	3645	[4745, 2705]	6049	[5367, 1257]	8453	[7349, 3978]
1242	[2021, 1870]	3646	[3201, 4746]	6050	[4607, 287]	8454	[8702, 7448]
1243	[2022, 2023]	3647	[4747, 917]	6051	[6811, 1039]	8455	[8703, 2052]
1244	[2024, 203]	3648	[4748, 4749]	6052	[6812, 2988]	8456	[2196, 2128]
1245	[2000, 1685]	3649	[4750, 4751]	6053	[6533, 1036]	8457	[3791, 585]
1246	[2025, 720]	3650	[3150, 2869]	6054	[1334, 6813]	8458	[8704, 8172]
1247	[1751, 1521]	3651	[260, 3036]	6055	[6814, 6815]	8459	[6084, 3956]
1248	[2026, 614]	3652	[3218, 4752]	6056	[6816, 6817]	8460	[8705, 663]
1249	[1520, 2027]	3653	[1244, 4753]	6057	[6818, 5130]	8461	[3775, 5996]
1250	[2028, 1492]	3654	[4754, 4755]	6058	[6819, 6820]	8462	[7302, 483]
1251	[2029, 1445]	3655	[2689, 4756]	6059	[6821, 2420]	8463	[8706, 4369]
1252	[2030, 2031]	3656	[4757, 4758]	6060	[6822, 2976]	8464	[1920, 1729]
1253	[1602, 547]	3657	[4759, 831]	6061	[6823, 896]	8465	[8707, 3607]
1254	[720, 1747]	3658	[2494, 4760]	6062	[6824, 845]	8466	[8708, 6068]
1255	[2032, 1463]	3659	[4761, 4762]	6063	[4790, 993]	8467	[8709, 2195]
1256	[2033, 1944]	3660	[4763, 4764]	6064	[6825, 2732]	8468	[8212, 3790]
1257	[2034, 656]	3661	[3037, 4765]	6065	[5388, 4784]	8469	[8710, 7576]
1258	[2035, 2036]	3662	[896, 3369]	6066	[830, 6826]	8470	[221, 600]
1259	[2037, 1911]	3663	[4766, 4767]	6067	[6827, 2496]	8471	[3611, 800]
1260	[2038, 2039]	3664	[2785, 4768]	6068	[6828, 2901]	8472	[8711, 3841]
1261	[2040, 578]	3665	[2440, 2288]	6069	[6829, 5635]	8473	[8712, 204]
1262	[2041, 2042]	3666	[4764, 400]	6070	[3220, 6830]	8474	[8713, 1592]
1263	[2043, 2044]	3667	[1251, 4769]	6071	[5052, 3318]	8475	[8714, 6225]
1264	[2045, 658]	3668	[312, 3129]	6072	[1019, 6636]	8476	[8715, 6432]
1265	[2046, 2047]	3669	[4770, 4771]	6073	[6831, 6832]	8477	[8716, 3530]
1266	[2048, 596]	3670	[4772, 4773]	6074	[6833, 6834]	8478	[8717, 2182]
1267	[1654, 2049]	3671	[4774, 2480]	6075	[6835, 2602]	8479	[8718, 6058]
1268	[2050, 2039]	3672	[2302, 3232]	6076	[1100, 1120]	8480	[8719, 6116]
1269	[2051, 1680]	3673	[4775, 2707]	6077	[5124, 3259]	8481	[8720, 2036]
1270	[2052, 2053]	3674	[4776, 4777]	6078	[1124, 6836]	8482	[8721, 2050]
1271	[2054, 1706]	3675	[4778, 2314]	6079	[300, 6837]	8483	[8722, 1577]
1272	[1915, 588]	3676	[4779, 4780]	6080	[6838, 2532]	8484	[8723, 3477]
1273	[2055, 720]	3677	[4781, 1403]	6081	[6839, 805]	8485	[8724, 1882]
1274	[670, 2056]	3678	[4782, 4783]	6082	[1034, 4696]	8486	[8725, 6174]
1275	[2057, 199]	3679	[4539, 4784]	6083	[6840, 6633]	8487	[8726, 5927]
1276	[2058, 1684]	3680	[4785, 4786]	6084	[6841, 4668]	8488	[8727, 474]
1277	[2059, 705]	3681	[4787, 927]	6085	[6842, 6463]	8489	[8728, 6367]
1278	[655, 2060]	3682	[4788, 4789]	6086	[5023, 6843]	8490	[1785, 3687]

1279	[2061, 133]	3683	[4721, 4790]	6087	[4832, 2900]	8491	[8729, 3607]
1280	[2062, 1778]	3684	[4791, 4707]	6088	[6844, 2877]	8492	[8265, 498]
1281	[184, 2063]	3685	[4792, 4793]	6089	[6845, 364]	8493	[8730, 2041]
1282	[2064, 2019]	3686	[4794, 2628]	6090	[3329, 6846]	8494	[8731, 504]
1283	[2065, 2066]	3687	[857, 2263]	6091	[290, 6847]	8495	[8732, 6452]
1284	[2067, 1629]	3688	[4795, 887]	6092	[4649, 6742]	8496	[8733, 4414]
1285	[2068, 2069]	3689	[2897, 4796]	6093	[2960, 2896]	8497	[8734, 3502]
1286	[1528, 2070]	3690	[4797, 16]	6094	[6848, 1293]	8498	[8735, 4030]
1287	[2071, 1728]	3691	[1191, 4798]	6095	[2327, 6849]	8499	[8736, 3686]
1288	[2072, 1744]	3692	[955, 4799]	6096	[4521, 4864]	8500	[8737, 3810]
1289	[2073, 161]	3693	[2428, 4800]	6097	[6850, 3158]	8501	[8738, 1687]
1290	[489, 2074]	3694	[4801, 4802]	6098	[2546, 6851]	8502	[1832, 1838]
1291	[2075, 581]	3695	[4803, 4804]	6099	[6695, 2806]	8503	[8739, 4314]
1292	[2076, 2077]	3696	[4805, 4806]	6100	[6852, 6853]	8504	[4057, 2229]
1293	[1849, 1815]	3697	[4807, 4808]	6101	[6854, 5272]	8505	[1676, 1584]
1294	[2078, 456]	3698	[4809, 4810]	6102	[5222, 6667]	8506	[8740, 3579]
1295	[1772, 485]	3699	[4811, 4812]	6103	[1257, 4578]	8507	[8741, 3873]
1296	[1548, 188]	3700	[4813, 1414]	6104	[6855, 6856]	8508	[8742, 202]
1297	[2079, 2080]	3701	[4814, 4770]	6105	[6857, 1156]	8509	[8743, 728]
1298	[2081, 1807]	3702	[4815, 2670]	6106	[6858, 3312]	8510	[4005, 6207]
1299	[2082, 2083]	3703	[4816, 4817]	6107	[2795, 5446]	8511	[3862, 1600]
1300	[2084, 472]	3704	[4818, 340]	6108	[306, 5206]	8512	[3778, 3579]
1301	[482, 526]	3705	[4649, 4819]	6109	[6859, 2583]	8513	[8744, 3916]
1302	[2085, 2086]	3706	[4820, 4631]	6110	[6860, 3386]	8514	[8745, 1591]
1303	[1451, 2087]	3707	[4643, 4821]	6111	[6861, 6862]	8515	[1875, 3545]
1304	[2088, 199]	3708	[3378, 3154]	6112	[1217, 6853]	8516	[8746, 3746]
1305	[642, 133]	3709	[4822, 4823]	6113	[6863, 1423]	8517	[8747, 1745]
1306	[2089, 2049]	3710	[2589, 4824]	6114	[1271, 841]	8518	[8748, 4059]
1307	[474, 1912]	3711	[4825, 3329]	6115	[6864, 115]	8519	[8749, 3772]
1308	[2090, 2091]	3712	[4826, 4827]	6116	[6865, 6866]	8520	[8750, 722]
1309	[1737, 2092]	3713	[4828, 4829]	6117	[6867, 6868]	8521	[8751, 680]
1310	[1767, 2093]	3714	[4830, 113]	6118	[6869, 2441]	8522	[8752, 3738]
1311	[2094, 1524]	3715	[4831, 4832]	6119	[6870, 3430]	8523	[8753, 1977]
1312	[2095, 1517]	3716	[4683, 4833]	6120	[6871, 2527]	8524	[8377, 6086]
1313	[2067, 784]	3717	[4834, 4835]	6121	[420, 4906]	8525	[8754, 633]
1314	[2096, 595]	3718	[4836, 2697]	6122	[6872, 289]	8526	[8755, 1932]
1315	[2097, 1554]	3719	[3196, 1345]	6123	[2649, 6873]	8527	[7291, 2002]
1316	[2098, 2099]	3720	[4837, 4838]	6124	[3312, 2928]	8528	[8756, 3916]
1317	[2100, 803]	3721	[4839, 4840]	6125	[4758, 3398]	8529	[3814, 527]
1318	[2101, 2102]	3722	[4841, 2936]	6126	[2418, 952]	8530	[8757, 8246]
1319	[2103, 2104]	3723	[4842, 4843]	6127	[6874, 2233]	8531	[8758, 3865]
1320	[2105, 136]	3724	[4844, 4845]	6128	[6742, 6659]	8532	[8759, 1757]
1321	[2106, 1557]	3725	[4846, 2488]	6129	[6875, 284]	8533	[1462, 1905]
1322	[790, 1967]	3726	[4847, 2336]	6130	[6876, 4952]	8534	[8760, 3676]

1323	[2107, 614]	3727	[3124, 1439]	6131	[3274, 2992]	8535	[8761, 5919]
1324	[2108, 190]	3728	[4848, 4849]	6132	[2515, 27]	8536	[8762, 498]
1325	[2109, 1780]	3729	[4850, 2285]	6133	[6877, 6878]	8537	[8763, 3700]
1326	[2110, 2111]	3730	[2421, 2612]	6134	[355, 6879]	8538	[4146, 531]
1327	[2093, 689]	3731	[4851, 934]	6135	[965, 6880]	8539	[8764, 6177]
1328	[1736, 2112]	3732	[2276, 2858]	6136	[6881, 6882]	8540	[3878, 1758]
1329	[2113, 150]	3733	[2667, 4852]	6137	[6883, 2861]	8541	[8765, 1953]
1330	[2114, 1680]	3734	[4853, 4854]	6138	[6884, 6885]	8542	[8766, 3949]
1331	[2115, 2116]	3735	[4855, 4856]	6139	[6886, 1435]	8543	[8767, 1715]
1332	[468, 597]	3736	[4857, 3093]	6140	[6887, 6888]	8544	[3629, 227]
1333	[2117, 2118]	3737	[4858, 4]	6141	[6785, 6889]	8545	[8768, 8769]
1334	[2119, 2120]	3738	[4859, 1039]	6142	[1251, 6890]	8546	[5929, 537]
1335	[2121, 2122]	3739	[4860, 4861]	6143	[6891, 2557]	8547	[3961, 1904]
1336	[2123, 731]	3740	[2349, 3130]	6144	[3137, 2708]	8548	[3965, 3465]
1337	[2124, 758]	3741	[3430, 4862]	6145	[6892, 832]	8549	[8770, 6144]
1338	[2125, 2018]	3742	[4863, 1151]	6146	[6893, 6894]	8550	[8771, 793]
1339	[1519, 2126]	3743	[4864, 1142]	6147	[6895, 6896]	8551	[8772, 1515]
1340	[2127, 160]	3744	[2317, 4865]	6148	[6897, 281]	8552	[8773, 1659]
1341	[1665, 2128]	3745	[4866, 4867]	6149	[6898, 2742]	8553	[8774, 4059]
1342	[2129, 2130]	3746	[4868, 4869]	6150	[6899, 854]	8554	[8775, 7666]
1343	[2131, 2132]	3747	[4870, 3054]	6151	[6900, 6901]	8555	[8776, 727]
1344	[2133, 2134]	3748	[4871, 4872]	6152	[864, 5343]	8556	[3832, 751]
1345	[475, 1646]	3749	[4873, 3365]	6153	[4994, 6902]	8557	[754, 1912]
1346	[455, 2106]	3750	[2305, 4874]	6154	[6903, 853]	8558	[8777, 4001]
1347	[2135, 539]	3751	[4875, 4876]	6155	[2949, 6904]	8559	[8778, 8177]
1348	[665, 2136]	3752	[1210, 4877]	6156	[6905, 2352]	8560	[1717, 597]
1349	[2137, 750]	3753	[4878, 4879]	6157	[6906, 1168]	8561	[8779, 7677]
1350	[2138, 2139]	3754	[3427, 4880]	6158	[4911, 6907]	8562	[799, 1838]
1351	[1809, 1542]	3755	[4881, 2975]	6159	[3157, 6908]	8563	[8780, 3437]
1352	[484, 1773]	3756	[4882, 1436]	6160	[3045, 5574]	8564	[1835, 3558]
1353	[747, 1448]	3757	[4883, 2457]	6161	[6909, 880]	8565	[8781, 7342]
1354	[1810, 2140]	3758	[2410, 4884]	6162	[4829, 6910]	8566	[8782, 1770]
1355	[2141, 733]	3759	[4885, 4886]	6163	[6911, 354]	8567	[8783, 5863]
1356	[1851, 2136]	3760	[4887, 4654]	6164	[6912, 2583]	8568	[600, 169]
1357	[2142, 657]	3761	[4888, 4889]	6165	[6913, 5623]	8569	[8784, 4298]
1358	[2143, 1830]	3762	[4500, 3116]	6166	[6773, 246]	8570	[8785, 1631]
1359	[2144, 1502]	3763	[4890, 4891]	6167	[6914, 2621]	8571	[8786, 6134]
1360	[2145, 2146]	3764	[4806, 4860]	6168	[2720, 2450]	8572	[8333, 1616]
1361	[2147, 667]	3765	[4892, 4893]	6169	[6480, 6915]	8573	[8787, 6454]
1362	[540, 2137]	3766	[2512, 2678]	6170	[5025, 5150]	8574	[8788, 8769]
1363	[2148, 572]	3767	[4894, 2710]	6171	[2768, 4954]	8575	[8789, 493]
1364	[2149, 662]	3768	[4895, 4896]	6172	[4901, 6916]	8576	[8790, 728]
1365	[2150, 2151]	3769	[4897, 4898]	6173	[6917, 1420]	8577	[8791, 771]
1366	[2152, 2153]	3770	[237, 4899]	6174	[3259, 6918]	8578	[8792, 4201]

1367	[798, 2154]	3771	[4900, 4901]	6175	[6919, 6548]	8579	[1641, 1822]
1368	[2155, 2156]	3772	[4902, 4903]	6176	[6920, 1305]	8580	[8793, 493]
1369	[2157, 125]	3773	[4756, 2236]	6177	[6921, 6922]	8581	[1582, 494]
1370	[2158, 548]	3774	[1369, 4904]	6178	[6923, 6924]	8582	[8794, 3664]
1371	[2159, 525]	3775	[4905, 4906]	6179	[6925, 362]	8583	[8795, 8208]
1372	[1622, 1879]	3776	[4554, 4907]	6180	[2644, 5392]	8584	[3827, 1896]
1373	[2004, 2160]	3777	[238, 2559]	6181	[6926, 277]	8585	[8796, 4430]
1374	[2161, 1643]	3778	[4908, 4909]	6182	[6927, 5100]	8586	[723, 3861]
1375	[2162, 2163]	3779	[4910, 4911]	6183	[6928, 2610]	8587	[8797, 4448]
1376	[1927, 576]	3780	[4912, 2625]	6184	[6929, 6785]	8588	[8798, 474]
1377	[648, 2164]	3781	[4913, 977]	6185	[6930, 1007]	8589	[8799, 3463]
1378	[57, 671]	3782	[2997, 4699]	6186	[2803, 3329]	8590	[2028, 2063]
1379	[2165, 2139]	3783	[4914, 4915]	6187	[1264, 6931]	8591	[8800, 2052]
1380	[1804, 2166]	3784	[79, 4916]	6188	[6932, 6510]	8592	[8801, 1863]
1381	[1839, 469]	3785	[4917, 4918]	6189	[6933, 359]	8593	[8802, 1853]
1382	[1508, 169]	3786	[3380, 4919]	6190	[6934, 1404]	8594	[8803, 3552]
1383	[2167, 2168]	3787	[948, 4920]	6191	[6935, 5127]	8595	[8804, 1609]
1384	[2169, 2170]	3788	[4921, 4922]	6192	[6667, 6936]	8596	[8805, 5694]
1385	[2079, 2171]	3789	[4923, 106]	6193	[2439, 4484]	8597	[8806, 505]
1386	[2172, 2019]	3790	[3099, 4500]	6194	[6937, 5128]	8598	[8807, 1477]
1387	[2173, 1521]	3791	[4924, 4557]	6195	[5106, 398]	8599	[8808, 739]
1388	[2174, 2175]	3792	[4925, 4926]	6196	[6938, 768]	8600	[8809, 4342]
1389	[2176, 2177]	3793	[4516, 4927]	6197	[6939, 6940]	8601	[8810, 664]
1390	[1999, 2178]	3794	[73, 818]	6198	[6941, 958]	8602	[8811, 4295]
1391	[2179, 699]	3795	[4928, 1221]	6199	[6942, 2355]	8603	[702, 220]
1392	[2180, 737]	3796	[4929, 2963]	6200	[2986, 6943]	8604	[8812, 5742]
1393	[1973, 2181]	3797	[4930, 2768]	6201	[5186, 6944]	8605	[8813, 5982]
1394	[2182, 2183]	3798	[4537, 4931]	6202	[3143, 6945]	8606	[8814, 5757]
1395	[2184, 2185]	3799	[4932, 814]	6203	[6946, 6947]	8607	[7207, 1936]
1396	[2186, 2187]	3800	[4933, 950]	6204	[4749, 2388]	8608	[8815, 459]
1397	[2188, 485]	3801	[4934, 1032]	6205	[2807, 2991]	8609	[8816, 7542]
1398	[497, 2189]	3802	[4935, 4936]	6206	[6948, 6949]	8610	[8817, 677]
1399	[2190, 2191]	3803	[1290, 4937]	6207	[288, 6950]	8611	[8818, 1477]
1400	[515, 1461]	3804	[4710, 4938]	6208	[1296, 6739]	8612	[8819, 6424]
1401	[2192, 2193]	3805	[4939, 2514]	6209	[6951, 2962]	8613	[8820, 7492]
1402	[2194, 2195]	3806	[4940, 4941]	6210	[1395, 6952]	8614	[8821, 4049]
1403	[2196, 662]	3807	[3112, 4942]	6211	[2515, 6953]	8615	[5913, 1675]
1404	[2197, 2198]	3808	[4943, 3186]	6212	[6954, 2622]	8616	[8822, 180]
1405	[666, 187]	3809	[4944, 4945]	6213	[6955, 2654]	8617	[8823, 5922]
1406	[1571, 38]	3810	[4946, 4947]	6214	[3210, 2348]	8618	[8824, 8297]
1407	[2199, 2200]	3811	[4734, 4948]	6215	[6956, 6957]	8619	[1464, 169]
1408	[2201, 2202]	3812	[3395, 3127]	6216	[5560, 5185]	8620	[8825, 2029]
1409	[2203, 1570]	3813	[4949, 1334]	6217	[6958, 6959]	8621	[8826, 1745]
1410	[1589, 2204]	3814	[4950, 4951]	6218	[867, 6960]	8622	[8827, 7240]

1411	[52, 502]	3815	[4952, 4953]	6219	[931, 6961]	8623	[3955, 449]
1412	[2205, 2206]	3816	[4954, 4955]	6220	[6953, 28]	8624	[8828, 1846]
1413	[2207, 1460]	3817	[4956, 4957]	6221	[910, 6962]	8625	[8829, 4042]
1414	[2208, 1537]	3818	[4958, 4959]	6222	[6963, 6964]	8626	[8830, 6452]
1415	[1902, 2209]	3819	[4960, 4961]	6223	[6965, 3100]	8627	[8831, 5736]
1416	[2210, 2080]	3820	[4962, 2762]	6224	[4862, 819]	8628	[8832, 633]
1417	[2211, 2212]	3821	[2946, 4963]	6225	[6966, 6967]	8629	[8833, 4269]
1418	[2213, 687]	3822	[404, 4964]	6226	[6968, 5553]	8630	[8834, 5955]
1419	[2015, 2214]	3823	[4965, 1216]	6227	[4849, 6969]	8631	[8835, 5965]
1420	[2215, 1809]	3824	[4966, 4663]	6228	[6970, 4771]	8632	[8836, 1718]
1421	[1677, 1776]	3825	[4967, 2837]	6229	[6971, 6972]	8633	[8837, 1957]
1422	[1980, 1705]	3826	[4968, 4969]	6230	[2468, 6973]	8634	[8838, 505]
1423	[572, 720]	3827	[4970, 4971]	6231	[6974, 1268]	8635	[8839, 663]
1424	[2216, 2007]	3828	[4972, 4773]	6232	[1406, 6975]	8636	[2114, 3961]
1425	[490, 1679]	3829	[4973, 3279]	6233	[6976, 321]	8637	[8840, 4327]
1426	[2217, 229]	3830	[2673, 4974]	6234	[6977, 6813]	8638	[3901, 147]
1427	[2218, 453]	3831	[4975, 4976]	6235	[6978, 6979]	8639	[8841, 4440]
1428	[2081, 2219]	3832	[4977, 4978]	6236	[6980, 5297]	8640	[8842, 1899]
1429	[2220, 522]	3833	[114, 4979]	6237	[2735, 6496]	8641	[763, 4129]
1430	[2221, 2222]	3834	[4980, 4981]	6238	[6981, 2936]	8642	[8843, 2124]
1431	[2223, 775]	3835	[4982, 4983]	6239	[6982, 6983]	8643	[8844, 3748]
1432	[2224, 1779]	3836	[4984, 1177]	6240	[6984, 5351]	8644	[4028, 2200]
1433	[2225, 2226]	3837	[4985, 4986]	6241	[6985, 5137]	8645	[8845, 3700]
1434	[2227, 2212]	3838	[1129, 4848]	6242	[6986, 3028]	8646	[8846, 629]
1435	[167, 2228]	3839	[1079, 4987]	6243	[6987, 974]	8647	[4434, 4165]
1436	[231, 451]	3840	[2383, 4988]	6244	[6929, 6988]	8648	[8847, 4244]
1437	[657, 2229]	3841	[4989, 4990]	6245	[6989, 4889]	8649	[8848, 134]
1438	[691, 2230]	3842	[4991, 4785]	6246	[6990, 394]	8650	[5684, 1726]
1439	[2231, 182]	3843	[2966, 4992]	6247	[6991, 890]	8651	[8849, 6085]
1440	[576, 133]	3844	[2907, 2813]	6248	[6992, 1102]	8652	[8850, 1740]
1441	[578, 528]	3845	[998, 3335]	6249	[6993, 1393]	8653	[5885, 3511]
1442	[2232, 2233]	3846	[4993, 2669]	6250	[2766, 5428]	8654	[8851, 6320]
1443	[2234, 2235]	3847	[4994, 4995]	6251	[6994, 275]	8655	[8852, 3463]
1444	[2236, 2237]	3848	[3072, 3304]	6252	[6995, 4671]	8656	[8853, 3481]
1445	[1085, 2238]	3849	[4996, 4908]	6253	[6996, 6997]	8657	[8854, 5822]
1446	[2239, 1338]	3850	[4997, 120]	6254	[357, 1007]	8658	[8855, 6308]
1447	[2240, 385]	3851	[4998, 4999]	6255	[6998, 813]	8659	[2112, 2153]
1448	[2241, 2242]	3852	[5000, 100]	6256	[6999, 4494]	8660	[8856, 3759]
1449	[2243, 2244]	3853	[4542, 5001]	6257	[7000, 5579]	8661	[8857, 3556]
1450	[2245, 2246]	3854	[5002, 3032]	6258	[1323, 6669]	8662	[8858, 1625]
1451	[2247, 2248]	3855	[5003, 2365]	6259	[6760, 2387]	8663	[8859, 722]
1452	[1233, 2249]	3856	[2818, 5004]	6260	[7001, 4638]	8664	[8860, 4327]
1453	[2250, 308]	3857	[1423, 5005]	6261	[7002, 116]	8665	[8861, 45]
1454	[2251, 2252]	3858	[5006, 3126]	6262	[7003, 7004]	8666	[8862, 2222]

1455	[2253, 823]	3859	[5007, 5008]	6263	[7005, 2529]	8667	[8863, 4074]
1456	[2254, 2255]	3860	[5009, 365]	6264	[7006, 2235]	8668	[8864, 1863]
1457	[349, 2256]	3861	[5010, 5011]	6265	[7007, 81]	8669	[8865, 1609]
1458	[1237, 2257]	3862	[3318, 5012]	6266	[7008, 2715]	8670	[7268, 61]
1459	[2258, 2259]	3863	[4704, 5013]	6267	[5392, 7009]	8671	[8866, 3700]
1460	[2260, 425]	3864	[5014, 2754]	6268	[7010, 3152]	8672	[8867, 690]
1461	[2261, 2262]	3865	[5015, 5016]	6269	[7011, 3036]	8673	[8868, 2634]
1462	[2263, 943]	3866	[5017, 5018]	6270	[6752, 3231]	8674	[8492, 2771]
1463	[275, 2264]	3867	[5019, 5020]	6271	[2842, 2878]	8675	[4484, 2288]
1464	[2265, 2266]	3868	[4719, 1178]	6272	[3226, 7012]	8676	[4558, 3153]
1465	[1090, 2267]	3869	[5021, 5022]	6273	[4604, 7013]	8677	[5026, 108]
1466	[2268, 2269]	3870	[5023, 2575]	6274	[5351, 4748]	8678	[5612, 5236]
1467	[2270, 2271]	3871	[5024, 1324]	6275	[2963, 78]	8679	[8869, 5438]
1468	[873, 2272]	3872	[2585, 5025]	6276	[7014, 2277]	8680	[6748, 20]
1469	[2273, 2274]	3873	[5026, 5027]	6277	[7015, 391]	8681	[8870, 4633]
1470	[2275, 2276]	3874	[5028, 2686]	6278	[7016, 7017]	8682	[8871, 8416]
1471	[2277, 2278]	3875	[5029, 4994]	6279	[7018, 1051]	8683	[8872, 18]
1472	[2279, 2280]	3876	[5030, 2454]	6280	[1404, 7019]	8684	[6626, 3205]
1473	[2281, 2282]	3877	[1425, 1227]	6281	[434, 235]	8685	[8873, 4852]
1474	[2283, 2284]	3878	[3197, 1346]	6282	[3080, 1114]	8686	[8874, 2366]
1475	[2285, 1162]	3879	[914, 5031]	6283	[2362, 7020]	8687	[4573, 3285]
1476	[2286, 2287]	3880	[5032, 5033]	6284	[7021, 2655]	8688	[264, 1283]
1477	[2288, 2289]	3881	[5034, 2313]	6285	[7022, 7023]	8689	[6504, 8875]
1478	[1091, 2290]	3882	[5035, 3123]	6286	[7024, 2292]	8690	[8876, 6756]
1479	[2291, 2292]	3883	[5036, 5037]	6287	[7025, 3387]	8691	[7972, 8877]
1480	[2293, 2294]	3884	[5038, 2376]	6288	[5489, 5148]	8692	[8878, 3315]
1481	[2295, 2296]	3885	[1287, 2554]	6289	[369, 7026]	8693	[8879, 8502]
1482	[2297, 2298]	3886	[2681, 1259]	6290	[7027, 306]	8694	[8880, 8015]
1483	[2299, 2300]	3887	[3126, 5039]	6291	[7028, 4603]	8695	[7899, 3232]
1484	[2301, 2302]	3888	[5040, 3320]	6292	[5136, 5181]	8696	[267, 5031]
1485	[2303, 943]	3889	[5041, 2751]	6293	[7029, 2774]	8697	[4641, 3003]
1486	[2304, 2305]	3890	[2312, 5042]	6294	[4766, 7030]	8698	[8881, 7990]
1487	[2306, 2307]	3891	[2237, 5043]	6295	[3161, 6754]	8699	[1099, 1119]
1488	[2308, 1249]	3892	[5044, 307]	6296	[7031, 3120]	8700	[5268, 3244]
1489	[2309, 2310]	3893	[5045, 5046]	6297	[7032, 5288]	8701	[943, 999]
1490	[2311, 1111]	3894	[1310, 3035]	6298	[4542, 4696]	8702	[8882, 98]
1491	[2312, 2313]	3895	[2895, 301]	6299	[7033, 7034]	8703	[8883, 1410]
1492	[2314, 2315]	3896	[5047, 2480]	6300	[7035, 1422]	8704	[7948, 1322]
1493	[2316, 2317]	3897	[811, 5048]	6301	[1155, 7036]	8705	[8884, 5531]
1494	[832, 2318]	3898	[4771, 5049]	6302	[7037, 7038]	8706	[6689, 1006]
1495	[2319, 303]	3899	[5050, 5051]	6303	[7039, 5252]	8707	[8885, 4690]
1496	[2320, 2321]	3900	[2992, 5052]	6304	[6817, 7040]	8708	[8886, 8586]
1497	[2322, 2323]	3901	[5053, 5054]	6305	[7041, 4537]	8709	[8887, 8888]
1498	[2324, 2325]	3902	[5055, 2681]	6306	[7042, 7043]	8710	[2804, 6846]

1499	[2326, 2327]	3903	[5056, 2963]	6307	[7044, 2274]	8711	[5175, 3168]
1500	[2328, 2329]	3904	[5057, 4811]	6308	[7045, 7046]	8712	[8889, 4890]
1501	[2330, 2331]	3905	[3312, 5058]	6309	[7047, 2728]	8713	[8890, 7876]
1502	[2332, 2333]	3906	[4838, 5059]	6310	[7048, 3415]	8714	[2310, 5587]
1503	[2334, 2335]	3907	[2489, 5060]	6311	[7049, 80]	8715	[8891, 4890]
1504	[2336, 2337]	3908	[5061, 2246]	6312	[7050, 1310]	8716	[4776, 8892]
1505	[2338, 2339]	3909	[5062, 5063]	6313	[7051, 3204]	8717	[8893, 1119]
1506	[2340, 2341]	3910	[2560, 5064]	6314	[7052, 4848]	8718	[8894, 2461]
1507	[1076, 321]	3911	[5065, 393]	6315	[6887, 2780]	8719	[8895, 3399]
1508	[2342, 1093]	3912	[433, 234]	6316	[2414, 6911]	8720	[8896, 1427]
1509	[320, 2343]	3913	[990, 5066]	6317	[7053, 1169]	8721	[8897, 2666]
1510	[2344, 2345]	3914	[5067, 5068]	6318	[7054, 993]	8722	[2572, 2344]
1511	[325, 2346]	3915	[5069, 2470]	6319	[7055, 7056]	8723	[8898, 5217]
1512	[2347, 2348]	3916	[1369, 5070]	6320	[7057, 7058]	8724	[4807, 7979]
1513	[312, 2349]	3917	[2547, 5071]	6321	[7059, 5286]	8725	[8899, 5611]
1514	[2350, 1033]	3918	[5072, 1173]	6322	[7060, 7061]	8726	[8900, 4954]
1515	[2351, 1298]	3919	[5073, 2633]	6323	[7062, 1406]	8727	[8901, 2978]
1516	[2352, 2353]	3920	[5074, 4577]	6324	[7063, 5514]	8728	[8902, 5361]
1517	[2354, 2355]	3921	[3281, 5075]	6325	[7064, 4710]	8729	[8903, 5405]
1518	[2356, 2357]	3922	[4586, 5076]	6326	[7065, 888]	8730	[8904, 1074]
1519	[2358, 2359]	3923	[5077, 5078]	6327	[382, 5181]	8731	[8905, 266]
1520	[2360, 2361]	3924	[5079, 5080]	6328	[7066, 3266]	8732	[8906, 3260]
1521	[2362, 2363]	3925	[5081, 5082]	6329	[7067, 5309]	8733	[8907, 6710]
1522	[2364, 2365]	3926	[2969, 5083]	6330	[834, 2364]	8734	[8908, 2903]
1523	[2366, 2367]	3927	[5084, 5085]	6331	[7068, 2826]	8735	[8909, 2475]
1524	[2368, 2369]	3928	[5086, 5087]	6332	[1146, 4564]	8736	[8910, 857]
1525	[2265, 2370]	3929	[5088, 2357]	6333	[7069, 6496]	8737	[5021, 1381]
1526	[2371, 2372]	3930	[5089, 2383]	6334	[7070, 348]	8738	[8911, 874]
1527	[2373, 2374]	3931	[5090, 437]	6335	[7071, 7072]	8739	[8912, 7950]
1528	[2375, 2376]	3932	[1171, 267]	6336	[5217, 7073]	8740	[2634, 6639]
1529	[1381, 2377]	3933	[968, 2794]	6337	[7074, 2757]	8741	[3003, 2903]
1530	[2378, 2379]	3934	[5091, 5092]	6338	[1254, 6593]	8742	[3065, 5260]
1531	[2380, 2381]	3935	[5093, 5094]	6339	[7075, 6725]	8743	[6610, 6582]
1532	[1124, 2382]	3936	[5095, 4628]	6340	[7076, 3401]	8744	[8913, 4846]
1533	[2383, 2384]	3937	[2427, 1080]	6341	[7077, 3234]	8745	[8914, 8915]
1534	[2385, 2386]	3938	[3009, 5096]	6342	[3154, 7078]	8746	[8916, 8917]
1535	[2387, 2388]	3939	[4536, 4590]	6343	[7079, 7080]	8747	[8918, 6964]
1536	[2389, 2390]	3940	[5097, 1244]	6344	[1429, 4766]	8748	[7060, 8032]
1537	[382, 2391]	3941	[5098, 5099]	6345	[7081, 7082]	8749	[8919, 2567]
1538	[2392, 2393]	3942	[5100, 2632]	6346	[7083, 7084]	8750	[8920, 8921]
1539	[2394, 2395]	3943	[5101, 4530]	6347	[919, 7085]	8751	[2678, 975]
1540	[2396, 2397]	3944	[5102, 5103]	6348	[7086, 967]	8752	[8922, 5589]
1541	[904, 1177]	3945	[2954, 5104]	6349	[7087, 21]	8753	[8923, 8924]
1542	[2398, 2399]	3946	[5105, 5106]	6350	[7088, 315]	8754	[8925, 3278]

1543	[2400, 2401]	3947	[5107, 5108]	6351	[7089, 7090]	8755	[8926, 8927]
1544	[1118, 2402]	3948	[992, 5109]	6352	[7091, 2399]	8756	[8928, 3277]
1545	[2403, 281]	3949	[5110, 278]	6353	[7092, 6766]	8757	[8929, 4669]
1546	[2292, 2404]	3950	[2774, 5103]	6354	[7093, 6718]	8758	[7705, 951]
1547	[935, 2405]	3951	[5111, 5112]	6355	[7094, 2492]	8759	[5036, 7975]
1548	[1200, 2406]	3952	[3161, 5113]	6356	[7095, 1180]	8760	[8930, 352]
1549	[107, 92]	3953	[5114, 1351]	6357	[6936, 1111]	8761	[8931, 8505]
1550	[2407, 2408]	3954	[5115, 5116]	6358	[7096, 6894]	8762	[8932, 8098]
1551	[2409, 2410]	3955	[875, 5117]	6359	[6915, 1341]	8763	[8933, 1283]
1552	[2411, 2412]	3956	[4675, 2835]	6360	[4699, 4539]	8764	[8934, 4959]
1553	[2413, 2414]	3957	[4634, 1365]	6361	[7097, 2673]	8765	[7004, 930]
1554	[2415, 2416]	3958	[5118, 1117]	6362	[7098, 2294]	8766	[6555, 8935]
1555	[2417, 289]	3959	[5119, 5120]	6363	[7099, 7100]	8767	[2921, 2372]
1556	[978, 2418]	3960	[5121, 5122]	6364	[7101, 2702]	8768	[8936, 2407]
1557	[985, 2419]	3961	[5123, 252]	6365	[5466, 4946]	8769	[1282, 8005]
1558	[2420, 2421]	3962	[2943, 5124]	6366	[7102, 421]	8770	[5217, 4946]
1559	[2422, 2423]	3963	[5125, 4673]	6367	[7103, 7104]	8771	[4780, 4622]
1560	[2424, 2425]	3964	[5126, 964]	6368	[7105, 1197]	8772	[8937, 2352]
1561	[2426, 1208]	3965	[5127, 5128]	6369	[7106, 2536]	8773	[2478, 1123]
1562	[2427, 375]	3966	[5129, 5130]	6370	[2533, 324]	8774	[8938, 6958]
1563	[2428, 1326]	3967	[5131, 2719]	6371	[4935, 7107]	8775	[8939, 2530]
1564	[1305, 2429]	3968	[5132, 5133]	6372	[7108, 7109]	8776	[8940, 2503]
1565	[2430, 2431]	3969	[2845, 5134]	6373	[7110, 7111]	8777	[8941, 8942]
1566	[2432, 1295]	3970	[5135, 924]	6374	[5441, 4713]	8778	[8943, 861]
1567	[2433, 2434]	3971	[3194, 5136]	6375	[7112, 7113]	8779	[8944, 894]
1568	[2435, 2436]	3972	[5137, 5138]	6376	[7114, 7115]	8780	[8945, 6868]
1569	[2437, 2438]	3973	[391, 5139]	6377	[1079, 7116]	8781	[8946, 6718]
1570	[2439, 2440]	3974	[2331, 5140]	6378	[7117, 2476]	8782	[8947, 8948]
1571	[2441, 2442]	3975	[378, 5141]	6379	[5292, 255]	8783	[4545, 7918]
1572	[2443, 2444]	3976	[3238, 5142]	6380	[7118, 2814]	8784	[8949, 4695]
1573	[2445, 397]	3977	[5143, 414]	6381	[4646, 3089]	8785	[8950, 1221]
1574	[2446, 95]	3978	[1259, 5144]	6382	[7119, 7120]	8786	[8951, 6569]
1575	[2447, 2448]	3979	[5145, 5146]	6383	[7121, 2448]	8787	[5086, 8952]
1576	[1173, 2449]	3980	[5147, 5148]	6384	[7122, 6626]	8788	[4746, 5566]
1577	[2450, 2451]	3981	[5149, 4547]	6385	[4916, 7123]	8789	[8953, 6952]
1578	[2276, 2452]	3982	[2586, 5150]	6386	[7124, 7125]	8790	[8954, 834]
1579	[2453, 2454]	3983	[4498, 2531]	6387	[7126, 5495]	8791	[8955, 386]
1580	[2455, 2456]	3984	[5151, 244]	6388	[2916, 5556]	8792	[8956, 2344]
1581	[2457, 1255]	3985	[5152, 2529]	6389	[7127, 4508]	8793	[6988, 1312]
1582	[2458, 2459]	3986	[5153, 909]	6390	[7128, 4521]	8794	[8957, 8958]
1583	[2460, 2461]	3987	[5154, 5155]	6391	[7129, 1415]	8795	[8959, 4629]
1584	[2462, 1302]	3988	[5156, 866]	6392	[7130, 2730]	8796	[8960, 2259]
1585	[2463, 1425]	3989	[2342, 5157]	6393	[7131, 442]	8797	[8961, 900]
1586	[2464, 2465]	3990	[5158, 2642]	6394	[7132, 2545]	8798	[8962, 860]

1587	[2466, 2467]	3991	[3304, 327]	6395	[7133, 7134]	8799	[8963, 8560]
1588	[2468, 2469]	3992	[4640, 1420]	6396	[7135, 917]	8800	[8964, 4491]
1589	[2470, 2471]	3993	[1000, 2723]	6397	[7136, 5601]	8801	[8965, 4827]
1590	[2472, 2473]	3994	[397, 5159]	6398	[7137, 2672]	8802	[8966, 8967]
1591	[2474, 2389]	3995	[5160, 4507]	6399	[7138, 2983]	8803	[8968, 353]
1592	[2475, 2476]	3996	[5161, 5162]	6400	[7139, 978]	8804	[8969, 111]
1593	[2477, 2478]	3997	[5010, 5163]	6401	[7140, 7141]	8805	[8970, 6958]
1594	[1340, 2479]	3998	[1180, 5164]	6402	[7142, 76]	8806	[8971, 1267]
1595	[2480, 2481]	3999	[98, 5165]	6403	[7143, 6513]	8807	[6720, 1091]
1596	[2395, 276]	4000	[2471, 5166]	6404	[3209, 2266]	8808	[8972, 1334]
1597	[988, 2482]	4001	[5167, 5168]	6405	[7144, 7145]	8809	[8973, 2876]
1598	[2483, 2484]	4002	[2944, 2923]	6406	[2814, 7146]	8810	[8974, 379]
1599	[807, 963]	4003	[5169, 1340]	6407	[7147, 2905]	8811	[8975, 1276]
1600	[1168, 2485]	4004	[95, 5170]	6408	[4587, 7147]	8812	[5440, 4712]
1601	[2486, 2487]	4005	[331, 4854]	6409	[7148, 2812]	8813	[8976, 2395]
1602	[2488, 2489]	4006	[5171, 5117]	6410	[992, 7038]	8814	[8977, 1366]
1603	[2490, 2491]	4007	[5172, 1172]	6411	[7149, 408]	8815	[8978, 2870]
1604	[2492, 2493]	4008	[5173, 2810]	6412	[7150, 4911]	8816	[8979, 3335]
1605	[2494, 2495]	4009	[5174, 2713]	6413	[7151, 7152]	8817	[8980, 332]
1606	[2496, 2497]	4010	[292, 4503]	6414	[7073, 4947]	8818	[8981, 8470]
1607	[2498, 1372]	4011	[5175, 5176]	6415	[4485, 2289]	8819	[5458, 19]
1608	[2499, 2244]	4012	[5177, 2406]	6416	[811, 5246]	8820	[8982, 8564]
1609	[2500, 2501]	4013	[1330, 4956]	6417	[7153, 4707]	8821	[8983, 4489]
1610	[2502, 2503]	4014	[360, 2280]	6418	[7154, 4896]	8822	[8984, 2237]
1611	[2504, 2505]	4015	[2694, 5178]	6419	[4491, 7155]	8823	[8985, 5505]
1612	[2506, 2507]	4016	[2593, 5179]	6420	[7156, 297]	8824	[2607, 6902]
1613	[2508, 2509]	4017	[5180, 4567]	6421	[7157, 7158]	8825	[8986, 1085]
1614	[2510, 2511]	4018	[5181, 5182]	6422	[7159, 5648]	8826	[8987, 7034]
1615	[2512, 2513]	4019	[5183, 4644]	6423	[7160, 872]	8827	[7134, 2856]
1616	[2514, 2515]	4020	[2415, 5184]	6424	[4601, 7161]	8828	[2878, 1133]
1617	[2516, 2517]	4021	[4738, 5185]	6425	[7162, 4833]	8829	[8988, 2536]
1618	[2518, 2519]	4022	[2519, 1087]	6426	[7163, 4793]	8830	[8989, 8990]
1619	[2520, 2521]	4023	[2831, 1083]	6427	[7164, 7165]	8831	[5517, 2734]
1620	[2522, 2523]	4024	[5186, 5187]	6428	[4892, 4619]	8832	[8991, 1149]
1621	[2524, 2428]	4025	[5188, 5189]	6429	[7166, 5229]	8833	[8992, 816]
1622	[2525, 2526]	4026	[3351, 5190]	6430	[7167, 949]	8834	[8993, 1099]
1623	[2527, 2528]	4027	[1378, 5191]	6431	[7168, 7169]	8835	[3391, 8544]
1624	[2529, 2530]	4028	[1044, 5192]	6432	[7170, 5557]	8836	[8994, 2678]
1625	[2531, 2532]	4029	[5193, 2366]	6433	[7171, 2776]	8837	[8995, 3046]
1626	[244, 2533]	4030	[2471, 5194]	6434	[7172, 69]	8838	[8996, 4847]
1627	[2534, 2535]	4031	[3289, 2368]	6435	[2451, 7173]	8839	[8997, 2661]
1628	[2536, 2537]	4032	[1288, 2555]	6436	[1017, 2413]	8840	[8998, 8443]
1629	[421, 2538]	4033	[5181, 5195]	6437	[3047, 1264]	8841	[8999, 2247]
1630	[2539, 2540]	4034	[1170, 266]	6438	[7174, 7175]	8842	[9000, 279]

1631	[2541, 2542]	4035	[1296, 5196]	6439	[5150, 5153]	8843	[9001, 3090]
1632	[2543, 2544]	4036	[5197, 839]	6440	[7176, 808]	8844	[9002, 436]
1633	[2545, 2546]	4037	[2990, 3262]	6441	[5058, 910]	8845	[9003, 7752]
1634	[2547, 2548]	4038	[5198, 3410]	6442	[7177, 1196]	8846	[9004, 5004]
1635	[2549, 2550]	4039	[5028, 5199]	6443	[815, 2485]	8847	[5368, 4578]
1636	[2551, 2552]	4040	[5200, 2730]	6444	[7178, 2641]	8848	[4872, 68]
1637	[2553, 373]	4041	[5201, 4701]	6445	[7179, 1375]	8849	[9005, 5565]
1638	[2554, 2555]	4042	[5202, 5019]	6446	[7080, 7180]	8850	[6940, 4951]
1639	[1163, 2556]	4043	[3034, 5203]	6447	[7181, 3350]	8851	[9006, 9007]
1640	[2557, 2558]	4044	[3047, 5204]	6448	[7182, 7183]	8852	[9008, 7183]
1641	[2559, 2560]	4045	[5205, 5206]	6449	[7184, 7109]	8853	[4528, 8511]
1642	[2561, 2248]	4046	[5207, 5208]	6450	[7185, 3114]	8854	[9009, 5092]
1643	[2562, 2563]	4047	[4849, 5209]	6451	[7186, 7187]	8855	[9010, 3148]
1644	[2564, 1186]	4048	[5210, 1065]	6452	[7188, 7189]	8856	[7090, 1069]
1645	[2565, 2566]	4049	[5211, 5212]	6453	[7190, 2720]	8857	[3345, 1046]
1646	[859, 2567]	4050	[310, 4905]	6454	[7013, 441]	8858	[9011, 8619]
1647	[2568, 2569]	4051	[2640, 5213]	6455	[7191, 176]	8859	[9012, 8411]
1648	[2570, 2571]	4052	[3114, 5214]	6456	[7192, 3724]	8860	[4869, 2710]
1649	[2572, 2573]	4053	[2575, 5215]	6457	[7193, 5982]	8861	[2500, 9013]
1650	[2574, 2423]	4054	[5216, 5217]	6458	[6030, 1781]	8862	[9014, 2950]
1651	[2575, 2576]	4055	[4799, 5218]	6459	[7194, 3876]	8863	[9015, 7165]
1652	[2577, 2578]	4056	[5219, 5220]	6460	[7195, 3658]	8864	[9016, 4918]
1653	[2579, 2580]	4057	[5221, 5222]	6461	[7196, 6229]	8865	[9017, 2615]
1654	[2581, 2582]	4058	[5223, 4785]	6462	[630, 3763]	8866	[5179, 4510]
1655	[2583, 2584]	4059	[5222, 5224]	6463	[2100, 556]	8867	[9018, 6490]
1656	[2585, 2586]	4060	[5225, 5226]	6464	[3696, 1944]	8868	[9019, 3704]
1657	[16, 2587]	4061	[4730, 2521]	6465	[5710, 1525]	8869	[9020, 1635]
1658	[2588, 2589]	4062	[5227, 871]	6466	[494, 762]	8870	[9021, 664]
1659	[2590, 2591]	4063	[5228, 5229]	6467	[7197, 3462]	8871	[9022, 2053]
1660	[2592, 2593]	4064	[5230, 312]	6468	[6116, 7198]	8872	[9023, 6178]
1661	[2594, 2595]	4065	[5231, 5232]	6469	[7199, 4289]	8873	[9024, 3620]
1662	[930, 2596]	4066	[5043, 2750]	6470	[7200, 4189]	8874	[9025, 3746]
1663	[2597, 1065]	4067	[5233, 5234]	6471	[449, 4055]	8875	[3722, 3910]
1664	[2598, 2599]	4068	[5235, 5236]	6472	[4342, 7201]	8876	[9026, 3705]
1665	[2600, 2601]	4069	[5237, 2628]	6473	[7202, 5668]	8877	[748, 200]
1666	[2602, 2603]	4070	[2451, 5238]	6474	[7203, 2205]	8878	[9027, 2168]
1667	[2604, 2605]	4071	[929, 5239]	6475	[3866, 4161]	8879	[9028, 7542]
1668	[2606, 2607]	4072	[5240, 5049]	6476	[7204, 3880]	8880	[9029, 3555]
1669	[2608, 2609]	4073	[5241, 5108]	6477	[7205, 4291]	8881	[9030, 6058]
1670	[2610, 2611]	4074	[5242, 5243]	6478	[5856, 2122]	8882	[9031, 4428]
1671	[2612, 2613]	4075	[18, 5244]	6479	[7206, 5728]	8883	[9032, 1635]
1672	[2614, 2615]	4076	[5245, 3134]	6480	[7207, 582]	8884	[9033, 4298]
1673	[2302, 2616]	4077	[5246, 5247]	6481	[7208, 2037]	8885	[9034, 6151]
1674	[18, 2617]	4078	[3190, 4844]	6482	[5938, 1754]	8886	[9035, 2050]

1675	[2618, 2619]	4079	[5248, 3344]	6483	[7209, 633]	8887	[9036, 2047]
1676	[2620, 1037]	4080	[3223, 5249]	6484	[7210, 639]	8888	[6417, 4016]
1677	[429, 1432]	4081	[5250, 2652]	6485	[7211, 504]	8889	[9037, 4342]
1678	[2472, 2621]	4082	[5251, 2593]	6486	[4363, 4426]	8890	[9038, 3704]
1679	[2622, 2623]	4083	[90, 5252]	6487	[7212, 7213]	8891	[9039, 7657]
1680	[2624, 2625]	4084	[1006, 5171]	6488	[7214, 4430]	8892	[5781, 3553]
1681	[2626, 2627]	4085	[5253, 3351]	6489	[7215, 3813]	8893	[9040, 1592]
1682	[2628, 2629]	4086	[2797, 4554]	6490	[5725, 2214]	8894	[9041, 1853]
1683	[2630, 2631]	4087	[5254, 2965]	6491	[7216, 2104]	8895	[9042, 1743]
1684	[2632, 2633]	4088	[4691, 856]	6492	[7217, 610]	8896	[9043, 3893]
1685	[2634, 2635]	4089	[1016, 4814]	6493	[5813, 760]	8897	[9044, 1625]
1686	[2636, 954]	4090	[5255, 5002]	6494	[635, 7218]	8898	[9045, 5804]
1687	[2637, 1209]	4091	[378, 5256]	6495	[7219, 5714]	8899	[9046, 610]
1688	[2340, 84]	4092	[5257, 986]	6496	[7220, 1984]	8900	[9047, 6038]
1689	[323, 86]	4093	[3251, 2545]	6497	[3687, 1549]	8901	[9048, 450]
1690	[288, 2638]	4094	[5258, 3194]	6498	[7221, 1731]	8902	[9049, 7576]
1691	[950, 1054]	4095	[5259, 2726]	6499	[7222, 762]	8903	[9050, 1972]
1692	[1109, 2639]	4096	[1404, 5160]	6500	[1695, 527]	8904	[9051, 4279]
1693	[384, 2640]	4097	[5260, 5261]	6501	[5910, 1692]	8905	[9052, 1612]
1694	[1068, 2641]	4098	[106, 2666]	6502	[7223, 3543]	8906	[9053, 4039]
1695	[2642, 2602]	4099	[5262, 878]	6503	[4408, 6301]	8907	[9054, 7627]
1696	[2643, 817]	4100	[5263, 3161]	6504	[7224, 1899]	8908	[9055, 722]
1697	[2644, 2645]	4101	[5264, 1093]	6505	[5706, 3655]	8909	[9056, 6029]
1698	[1114, 2646]	4102	[1097, 5265]	6506	[7225, 5938]	8910	[9057, 3463]
1699	[2647, 1376]	4103	[3140, 5266]	6507	[4454, 3550]	8911	[9058, 459]
1700	[2648, 2649]	4104	[236, 3042]	6508	[7226, 7227]	8912	[9059, 2174]
1701	[2650, 1353]	4105	[5267, 2459]	6509	[7228, 6128]	8913	[9060, 6322]
1702	[2651, 2652]	4106	[915, 5268]	6510	[7229, 448]	8914	[9061, 474]
1703	[2653, 29]	4107	[5269, 4735]	6511	[7230, 1493]	8915	[6069, 3861]
1704	[2654, 2655]	4108	[380, 3394]	6512	[3633, 1921]	8916	[9062, 8153]
1705	[2656, 2657]	4109	[5270, 5271]	6513	[1880, 3668]	8917	[1836, 799]
1706	[2280, 2658]	4110	[296, 3143]	6514	[7231, 4399]	8918	[9063, 2115]
1707	[2659, 2428]	4111	[5272, 2588]	6515	[7232, 1842]	8919	[1773, 1917]
1708	[2660, 2661]	4112	[3322, 1124]	6516	[7233, 3949]	8920	[9064, 1960]
1709	[2662, 2663]	4113	[5273, 4996]	6517	[7234, 3893]	8921	[6047, 1792]
1710	[2664, 2665]	4114	[5274, 5275]	6518	[5815, 3653]	8922	[9065, 3810]
1711	[2666, 2667]	4115	[3013, 1244]	6519	[7235, 1951]	8923	[9066, 677]
1712	[2668, 97]	4116	[5276, 1403]	6520	[7236, 4089]	8924	[6046, 786]
1713	[2284, 2669]	4117	[5277, 3284]	6521	[7237, 525]	8925	[9067, 1603]
1714	[2670, 2671]	4118	[5278, 5279]	6522	[201, 4332]	8926	[9068, 641]
1715	[880, 2672]	4119	[5280, 5281]	6523	[4014, 639]	8927	[3991, 1896]
1716	[2673, 2674]	4120	[5282, 5163]	6524	[7238, 5977]	8928	[9069, 4203]
1717	[1125, 2675]	4121	[4718, 5283]	6525	[7239, 7240]	8929	[9070, 4428]
1718	[2676, 2677]	4122	[1194, 5284]	6526	[7241, 514]	8930	[9071, 7545]

1719	[2678, 2679]	4123	[5285, 5286]	6527	[7242, 51]	8931	[9072, 6169]
1720	[2680, 2681]	4124	[5287, 3003]	6528	[6026, 3541]	8932	[9073, 2099]
1721	[2682, 2683]	4125	[2233, 5288]	6529	[6353, 2120]	8933	[9074, 2067]
1722	[2684, 2685]	4126	[399, 5012]	6530	[5772, 7243]	8934	[9075, 6244]
1723	[2686, 2687]	4127	[5289, 5290]	6531	[7244, 6304]	8935	[1593, 1776]
1724	[2688, 2689]	4128	[2928, 5291]	6532	[7245, 7246]	8936	[9076, 4030]
1725	[438, 2690]	4129	[1042, 5292]	6533	[5745, 1496]	8937	[9077, 3565]
1726	[2355, 2691]	4130	[233, 5293]	6534	[7247, 5744]	8938	[9078, 4295]
1727	[2692, 2693]	4131	[5294, 5295]	6535	[2136, 187]	8939	[9079, 5770]
1728	[2694, 2695]	4132	[5296, 5297]	6536	[4399, 695]	8940	[9080, 6068]
1729	[2696, 2697]	4133	[4848, 5298]	6537	[7248, 142]	8941	[9081, 4007]
1730	[2618, 2698]	4134	[2380, 5023]	6538	[7249, 4304]	8942	[3824, 3701]
1731	[2699, 1144]	4135	[2309, 901]	6539	[7250, 2101]	8943	[9082, 2036]
1732	[2700, 2701]	4136	[5299, 1421]	6540	[6381, 2209]	8944	[9083, 6038]
1733	[2665, 2702]	4137	[4615, 5300]	6541	[7251, 3572]	8945	[9084, 3468]
1734	[2703, 2704]	4138	[5301, 806]	6542	[534, 1722]	8946	[9085, 3924]
1735	[1020, 2705]	4139	[5302, 84]	6543	[4134, 596]	8947	[9086, 4113]
1736	[984, 2326]	4140	[5303, 5304]	6544	[7252, 4412]	8948	[4251, 1776]
1737	[1193, 2706]	4141	[5305, 5306]	6545	[1742, 4324]	8949	[9087, 690]
1738	[2707, 2347]	4142	[20, 5307]	6546	[7253, 6395]	8950	[9088, 8270]
1739	[2708, 410]	4143	[3352, 1088]	6547	[7254, 3829]	8951	[9089, 3508]
1740	[2709, 1297]	4144	[5124, 2483]	6548	[3761, 3541]	8952	[7645, 1936]
1741	[2710, 1170]	4145	[1264, 5308]	6549	[7255, 6217]	8953	[9090, 1524]
1742	[2711, 1024]	4146	[2955, 2783]	6550	[7256, 568]	8954	[9091, 1586]
1743	[2712, 2298]	4147	[301, 5309]	6551	[5803, 1800]	8955	[9092, 1496]
1744	[2713, 2714]	4148	[2595, 1136]	6552	[7257, 651]	8956	[9093, 5927]
1745	[2715, 2716]	4149	[431, 5310]	6553	[3578, 4163]	8957	[9094, 3865]
1746	[2717, 1279]	4150	[5311, 1303]	6554	[4455, 4417]	8958	[3851, 3914]
1747	[2718, 1205]	4151	[5312, 892]	6555	[7258, 4046]	8959	[9095, 2116]
1748	[2701, 1099]	4152	[3399, 5313]	6556	[4086, 6172]	8960	[9096, 7289]
1749	[2719, 2720]	4153	[5314, 5315]	6557	[3575, 2080]	8961	[9097, 1483]
1750	[2721, 1307]	4154	[5316, 870]	6558	[3998, 1951]	8962	[9098, 1524]
1751	[2722, 1236]	4155	[5212, 898]	6559	[6355, 1603]	8963	[9099, 1884]
1752	[2443, 2723]	4156	[5317, 2647]	6560	[7259, 5899]	8964	[9100, 6363]
1753	[2724, 2725]	4157	[5318, 5319]	6561	[7260, 2186]	8965	[9101, 511]
1754	[2726, 2727]	4158	[2900, 5320]	6562	[7261, 4090]	8966	[9102, 8246]
1755	[2728, 2729]	4159	[5321, 5261]	6563	[7262, 3946]	8967	[4263, 1792]
1756	[2730, 2731]	4160	[5322, 3374]	6564	[7263, 7264]	8968	[9103, 655]
1757	[1176, 2642]	4161	[5323, 68]	6565	[4161, 5890]	8969	[9104, 6452]
1758	[2732, 2733]	4162	[5324, 2307]	6566	[7265, 2094]	8970	[9105, 1753]
1759	[2734, 1325]	4163	[2242, 82]	6567	[7266, 6262]	8971	[9106, 4430]
1760	[2735, 2736]	4164	[5325, 5326]	6568	[7267, 4027]	8972	[9107, 2121]
1761	[2737, 2738]	4165	[5327, 5328]	6569	[7268, 3563]	8973	[9108, 4279]
1762	[2739, 2740]	4166	[2679, 976]	6570	[7269, 2104]	8974	[9109, 6308]

1763	[2741, 2742]	4167	[5329, 1363]	6571	[7270, 776]	8975	[9110, 7504]
1764	[1139, 2743]	4168	[4590, 5330]	6572	[151, 5754]	8976	[9111, 6074]
1765	[2744, 2745]	4169	[5331, 335]	6573	[3654, 1540]	8977	[9112, 3595]
1766	[295, 2746]	4170	[4619, 5332]	6574	[7271, 6032]	8978	[9113, 4029]
1767	[2747, 2748]	4171	[2991, 2827]	6575	[5859, 1883]	8979	[9114, 6342]
1768	[2749, 2750]	4172	[3071, 5333]	6576	[7272, 1731]	8980	[9115, 619]
1769	[2751, 2271]	4173	[1343, 5334]	6577	[4261, 7273]	8981	[9116, 3588]
1770	[2752, 2531]	4174	[5335, 5008]	6578	[7274, 7275]	8982	[9117, 5863]
1771	[2753, 2754]	4175	[5336, 5155]	6579	[7276, 6058]	8983	[9118, 8166]
1772	[2755, 2441]	4176	[5337, 1296]	6580	[7277, 4098]	8984	[9119, 5923]
1773	[2756, 2757]	4177	[5338, 5339]	6581	[7278, 3502]	8985	[9120, 5764]
1774	[2758, 2759]	4178	[239, 2560]	6582	[5859, 3493]	8986	[9121, 3437]
1775	[2760, 2761]	4179	[5288, 1190]	6583	[7279, 2035]	8987	[9122, 3565]
1776	[2762, 2763]	4180	[5340, 4952]	6584	[1487, 4165]	8988	[9123, 4432]
1777	[2764, 2765]	4181	[5341, 2797]	6585	[7280, 3793]	8989	[9124, 8172]
1778	[2766, 2767]	4182	[4811, 1252]	6586	[7281, 3924]	8990	[3902, 5988]
1779	[2768, 2769]	4183	[5342, 5343]	6587	[7277, 6218]	8991	[9125, 1863]
1780	[2770, 2771]	4184	[5344, 907]	6588	[7282, 1728]	8992	[9126, 7289]
1781	[2772, 921]	4185	[5345, 5346]	6589	[3517, 4088]	8993	[9127, 1845]
1782	[2773, 2774]	4186	[5347, 2884]	6590	[7283, 5731]	8994	[9128, 3866]
1783	[2775, 2776]	4187	[3266, 5348]	6591	[4145, 3935]	8995	[9129, 2206]
1784	[2777, 2618]	4188	[5349, 4874]	6592	[6152, 1645]	8996	[9130, 1909]
1785	[2778, 2779]	4189	[5350, 5351]	6593	[1917, 1572]	8997	[9131, 6363]
1786	[2780, 2781]	4190	[5352, 2599]	6594	[7284, 5668]	8998	[9132, 619]
1787	[2782, 2783]	4191	[5353, 5354]	6595	[504, 7285]	8999	[9133, 3713]
1788	[2784, 2785]	4192	[5355, 1018]	6596	[7286, 3567]	9000	[9134, 3867]
1789	[2786, 2787]	4193	[5356, 5357]	6597	[689, 692]	9001	[9135, 127]
1790	[2788, 2789]	4194	[4905, 5358]	6598	[7287, 1468]	9002	[9136, 4338]
1791	[2790, 2791]	4195	[5359, 2813]	6599	[6437, 2204]	9003	[9137, 1524]
1792	[2792, 1020]	4196	[5360, 5361]	6600	[7288, 7289]	9004	[9138, 3972]
1793	[2793, 2794]	4197	[4911, 5362]	6601	[7290, 1827]	9005	[9139, 1591]
1794	[2795, 2796]	4198	[5363, 349]	6602	[3680, 4033]	9006	[9140, 6347]
1795	[2797, 2798]	4199	[5364, 2247]	6603	[3708, 3787]	9007	[42, 1835]
1796	[2667, 2799]	4200	[5365, 5366]	6604	[7291, 616]	9008	[9141, 558]
1797	[2800, 2467]	4201	[5367, 5368]	6605	[7292, 4375]	9009	[9142, 8270]
1798	[2801, 2802]	4202	[5369, 4735]	6606	[7293, 1830]	9010	[9143, 6262]
1799	[2803, 2804]	4203	[5370, 5371]	6607	[5756, 1590]	9011	[9144, 3580]
1800	[998, 2805]	4204	[5372, 1330]	6608	[40, 1633]	9012	[9145, 2041]
1801	[2806, 2506]	4205	[927, 5373]	6609	[7294, 6351]	9013	[1806, 2219]
1802	[2807, 2808]	4206	[866, 5374]	6610	[7295, 6177]	9014	[9146, 4185]
1803	[2809, 2810]	4207	[5375, 307]	6611	[4204, 4433]	9015	[9147, 4355]
1804	[2811, 2812]	4208	[5376, 3190]	6612	[714, 5988]	9016	[9148, 4042]
1805	[2813, 2814]	4209	[1054, 386]	6613	[7296, 3721]	9017	[9149, 3533]
1806	[2815, 2816]	4210	[5377, 419]	6614	[7297, 4148]	9018	[9150, 1625]

1807	[2817, 2818]	4211	[5378, 866]	6615	[792, 144]	9019	[9151, 114]
1808	[2819, 1175]	4212	[5379, 1193]	6616	[7298, 5911]	9020	[9152, 258]
1809	[2820, 2821]	4213	[5380, 920]	6617	[7299, 3968]	9021	[9153, 4605]
1810	[2822, 2823]	4214	[5381, 3157]	6618	[7300, 4442]	9022	[6900, 9154]
1811	[2824, 2254]	4215	[5382, 5383]	6619	[7301, 2158]	9023	[9155, 2305]
1812	[2825, 2826]	4216	[5247, 5384]	6620	[7302, 526]	9024	[4582, 9156]
1813	[2827, 2828]	4217	[3090, 5385]	6621	[7303, 4009]	9025	[9157, 2519]
1814	[1186, 2829]	4218	[4963, 5386]	6622	[4164, 53]	9026	[9158, 7017]
1815	[2830, 2831]	4219	[5387, 1236]	6623	[705, 5986]	9027	[2999, 827]
1816	[1438, 1378]	4220	[4699, 5388]	6624	[7304, 1756]	9028	[9159, 847]
1817	[2832, 2268]	4221	[5389, 2435]	6625	[7305, 1995]	9029	[9160, 4876]
1818	[2833, 1043]	4222	[5390, 1205]	6626	[2162, 2126]	9030	[9161, 3132]
1819	[2401, 2834]	4223	[5391, 2868]	6627	[5800, 3595]	9031	[9162, 6946]
1820	[2835, 2836]	4224	[5392, 5393]	6628	[7306, 4009]	9032	[9163, 4898]
1821	[94, 2837]	4225	[5394, 823]	6629	[1638, 1564]	9033	[9164, 8888]
1822	[2419, 2838]	4226	[5395, 2662]	6630	[7307, 192]	9034	[9165, 2904]
1823	[850, 1095]	4227	[2367, 5396]	6631	[5833, 4096]	9035	[9166, 4988]
1824	[2839, 2840]	4228	[2263, 5397]	6632	[4379, 3913]	9036	[9167, 4969]
1825	[2841, 2842]	4229	[5398, 2995]	6633	[3759, 660]	9037	[9168, 5635]
1826	[2843, 2844]	4230	[5399, 5400]	6634	[6454, 6301]	9038	[9169, 6603]
1827	[2845, 2846]	4231	[4501, 5401]	6635	[2039, 1733]	9039	[261, 3037]
1828	[830, 2847]	4232	[4571, 5402]	6636	[3949, 6424]	9040	[8426, 2921]
1829	[2848, 2849]	4233	[3043, 4795]	6637	[7308, 2035]	9041	[9170, 4528]
1830	[2850, 2851]	4234	[5403, 4563]	6638	[6160, 3816]	9042	[6646, 6996]
1831	[21, 2852]	4235	[5062, 5404]	6639	[1859, 792]	9043	[9171, 3062]
1832	[2853, 2854]	4236	[5405, 5406]	6640	[7309, 6375]	9044	[6861, 2415]
1833	[2855, 2856]	4237	[5407, 5166]	6641	[7310, 6038]	9045	[9172, 5090]
1834	[116, 2857]	4238	[4664, 5408]	6642	[7311, 1904]	9046	[9173, 1200]
1835	[2858, 317]	4239	[5409, 5410]	6643	[7312, 6063]	9047	[9174, 6632]
1836	[2343, 2859]	4240	[5411, 5412]	6644	[7313, 798]	9048	[9175, 820]
1837	[995, 2860]	4241	[5413, 5396]	6645	[7314, 6347]	9049	[265, 1284]
1838	[2859, 2861]	4242	[5414, 4999]	6646	[7315, 4258]	9050	[9176, 4838]
1839	[316, 2862]	4243	[5415, 4978]	6647	[5865, 2124]	9051	[9177, 5455]
1840	[820, 2863]	4244	[5416, 2610]	6648	[7316, 4201]	9052	[4686, 2508]
1841	[22, 2864]	4245	[5417, 988]	6649	[7317, 6085]	9053	[9178, 2367]
1842	[2865, 2866]	4246	[1153, 5418]	6650	[7318, 6355]	9054	[3366, 7861]
1843	[2867, 2868]	4247	[5284, 5419]	6651	[7319, 742]	9055	[7170, 1397]
1844	[2869, 2261]	4248	[5420, 5421]	6652	[7320, 3576]	9056	[9179, 3256]
1845	[2870, 2871]	4249	[4638, 4598]	6653	[4236, 3873]	9057	[7133, 2855]
1846	[2872, 2873]	4250	[5422, 75]	6654	[7321, 3979]	9058	[9180, 1317]
1847	[2874, 1310]	4251	[5423, 5278]	6655	[7322, 4156]	9059	[9181, 4867]
1848	[2875, 2876]	4252	[5424, 3099]	6656	[7323, 3455]	9060	[9182, 2686]
1849	[2877, 2878]	4253	[3220, 5425]	6657	[7324, 60]	9061	[9183, 3375]
1850	[2879, 2880]	4254	[5426, 2665]	6658	[1635, 135]	9062	[9184, 5068]

1851	[2881, 2882]	4255	[5427, 5428]	6659	[1893, 138]	9063	[9185, 2582]
1852	[2883, 2884]	4256	[4903, 5429]	6660	[7325, 4390]	9064	[9186, 6599]
1853	[2885, 2886]	4257	[4915, 4532]	6661	[7326, 2205]	9065	[9187, 9188]
1854	[2887, 2888]	4258	[5430, 1306]	6662	[7327, 3904]	9066	[4800, 1327]
1855	[2889, 2890]	4259	[5431, 4617]	6663	[7328, 5931]	9067	[9189, 8990]
1856	[2891, 2892]	4260	[5432, 3429]	6664	[7329, 4295]	9068	[6862, 5184]
1857	[425, 2893]	4261	[2511, 829]	6665	[6309, 1754]	9069	[9190, 4628]
1858	[1135, 2894]	4262	[888, 5433]	6666	[7330, 2041]	9070	[9191, 2712]
1859	[961, 2895]	4263	[5434, 5435]	6667	[5956, 41]	9071	[9192, 21]
1860	[2481, 2896]	4264	[2662, 5436]	6668	[6229, 7331]	9072	[6817, 8533]
1861	[2897, 2898]	4265	[4494, 2890]	6669	[7332, 3524]	9073	[9193, 6471]
1862	[2716, 2793]	4266	[2892, 2552]	6670	[7333, 7201]	9074	[9194, 421]
1863	[2899, 2900]	4267	[5437, 5438]	6671	[7334, 6363]	9075	[9195, 9196]
1864	[2901, 2902]	4268	[5439, 2759]	6672	[5682, 1779]	9076	[9197, 2553]
1865	[2903, 428]	4269	[5440, 5441]	6673	[7335, 1930]	9077	[9198, 4654]
1866	[2904, 2905]	4270	[1144, 5442]	6674	[214, 527]	9078	[9199, 3111]
1867	[2906, 2907]	4271	[5443, 3203]	6675	[6217, 7336]	9079	[9200, 9201]
1868	[2908, 2909]	4272	[3335, 5444]	6676	[7337, 6432]	9080	[9202, 3295]
1869	[2910, 1068]	4273	[5445, 5446]	6677	[1656, 3890]	9081	[6888, 2781]
1870	[2911, 2912]	4274	[917, 5447]	6678	[7338, 1794]	9082	[328, 9203]
1871	[2913, 2914]	4275	[5448, 4520]	6679	[4060, 4108]	9083	[4985, 8504]
1872	[2915, 2916]	4276	[1009, 5449]	6680	[7339, 6375]	9084	[9204, 8538]
1873	[2917, 2918]	4277	[5450, 3409]	6681	[7340, 3803]	9085	[9205, 1353]
1874	[354, 2919]	4278	[5451, 5452]	6682	[4345, 4001]	9086	[9206, 4824]
1875	[2920, 2540]	4279	[5453, 5454]	6683	[7341, 2111]	9087	[9207, 2424]
1876	[2921, 2922]	4280	[5455, 5456]	6684	[2186, 7342]	9088	[9208, 244]
1877	[28, 2923]	4281	[4625, 292]	6685	[7343, 225]	9089	[9209, 305]
1878	[2924, 2925]	4282	[5457, 5458]	6686	[7344, 4029]	9090	[9210, 9211]
1879	[2926, 2927]	4283	[2682, 2618]	6687	[761, 3827]	9091	[9212, 2770]
1880	[2928, 910]	4284	[1420, 5459]	6688	[7345, 1845]	9092	[6939, 4950]
1881	[2929, 2930]	4285	[5460, 5461]	6689	[7346, 6116]	9093	[5418, 3047]
1882	[2248, 2931]	4286	[5462, 2570]	6690	[7347, 3540]	9094	[9213, 6769]
1883	[2932, 2933]	4287	[5463, 4799]	6691	[7348, 7349]	9095	[9214, 9215]
1884	[2934, 2935]	4288	[2268, 5464]	6692	[3502, 4088]	9096	[9216, 7872]
1885	[2936, 2937]	4289	[2317, 5465]	6693	[7350, 5703]	9097	[9217, 2749]
1886	[2938, 2939]	4290	[3342, 4504]	6694	[5849, 4459]	9098	[3208, 2265]
1887	[2940, 2941]	4291	[5216, 5466]	6695	[7351, 3721]	9099	[9218, 5063]
1888	[2942, 2943]	4292	[5467, 372]	6696	[7352, 1714]	9100	[9219, 7077]
1889	[27, 2944]	4293	[5468, 1219]	6697	[7353, 4109]	9101	[9220, 6736]
1890	[2945, 1326]	4294	[5469, 3199]	6698	[7354, 1824]	9102	[358, 3403]
1891	[2946, 2947]	4295	[5470, 5471]	6699	[7355, 7356]	9103	[7126, 1182]
1892	[2948, 2949]	4296	[1135, 5472]	6700	[597, 1836]	9104	[9221, 2492]
1893	[2950, 2951]	4297	[1337, 4527]	6701	[7357, 1486]	9105	[9222, 2684]
1894	[2952, 1143]	4298	[5473, 5327]	6702	[6260, 5820]	9106	[9223, 385]

1895	[2953, 2954]	4299	[2528, 2895]	6703	[7358, 4338]	9107	[9224, 3277]
1896	[1072, 2955]	4300	[5474, 1106]	6704	[7359, 497]	9108	[9225, 6518]
1897	[2956, 2770]	4301	[1423, 5475]	6705	[7360, 1977]	9109	[9226, 389]
1898	[2381, 2575]	4302	[5476, 3256]	6706	[7361, 3815]	9110	[9227, 9228]
1899	[2957, 285]	4303	[5001, 5477]	6707	[7362, 2081]	9111	[9229, 3155]
1900	[2958, 2959]	4304	[5054, 5478]	6708	[3760, 2229]	9112	[7942, 9230]
1901	[2480, 2960]	4305	[5479, 4704]	6709	[7363, 497]	9113	[9231, 1133]
1902	[2961, 2962]	4306	[5480, 5382]	6710	[4058, 5988]	9114	[9232, 4693]
1903	[2963, 2964]	4307	[2612, 5481]	6711	[7364, 3819]	9115	[5338, 1125]
1904	[2965, 2966]	4308	[4669, 5147]	6712	[7365, 4091]	9116	[9233, 2823]
1905	[252, 2967]	4309	[5482, 4612]	6713	[7366, 626]	9117	[2873, 3416]
1906	[2968, 2969]	4310	[5483, 5484]	6714	[7367, 138]	9118	[9234, 7100]
1907	[2970, 2368]	4311	[241, 5485]	6715	[5986, 707]	9119	[7089, 5506]
1908	[2971, 1049]	4312	[300, 5486]	6716	[7368, 2077]	9120	[9235, 4733]
1909	[2972, 2973]	4313	[5487, 4590]	6717	[6178, 3882]	9121	[9236, 4484]
1910	[2974, 2975]	4314	[5488, 3105]	6718	[7369, 2166]	9122	[9237, 3177]
1911	[2976, 2977]	4315	[4669, 5489]	6719	[7370, 3632]	9123	[9238, 2351]
1912	[2978, 236]	4316	[5490, 5138]	6720	[7371, 2201]	9124	[395, 8527]
1913	[2979, 2980]	4317	[5491, 3242]	6721	[7372, 6422]	9125	[5462, 2988]
1914	[2642, 2981]	4318	[5492, 2295]	6722	[6225, 7213]	9126	[9239, 2921]
1915	[978, 951]	4319	[2562, 5493]	6723	[7373, 4417]	9127	[7057, 2872]
1916	[2431, 2982]	4320	[5494, 4547]	6724	[7374, 1721]	9128	[9240, 5019]
1917	[878, 2983]	4321	[5495, 5496]	6725	[3498, 3877]	9129	[9241, 116]
1918	[2984, 356]	4322	[5497, 5498]	6726	[7375, 3725]	9130	[9242, 1043]
1919	[2256, 2985]	4323	[5499, 1224]	6727	[7376, 7246]	9131	[9243, 9203]
1920	[2986, 2987]	4324	[339, 5500]	6728	[4381, 4351]	9132	[9244, 7056]
1921	[2988, 2989]	4325	[5501, 26]	6729	[634, 3906]	9133	[9245, 2901]
1922	[28, 2990]	4326	[5502, 2693]	6730	[2024, 4097]	9134	[7103, 9246]
1923	[342, 2991]	4327	[5503, 5504]	6731	[7377, 1804]	9135	[9247, 4963]
1924	[2992, 398]	4328	[5307, 1150]	6732	[7378, 4365]	9136	[9248, 440]
1925	[2993, 2435]	4329	[5505, 4622]	6733	[7379, 6217]	9137	[9249, 6700]
1926	[2994, 2995]	4330	[5506, 5507]	6734	[7380, 7381]	9138	[7112, 9250]
1927	[1376, 2996]	4331	[5508, 2791]	6735	[7382, 4235]	9139	[9251, 1266]
1928	[805, 2997]	4332	[4673, 5509]	6736	[217, 1905]	9140	[9252, 2425]
1929	[2998, 1082]	4333	[892, 5510]	6737	[5955, 7383]	9141	[9253, 7758]
1930	[2999, 3000]	4334	[5511, 2649]	6738	[7384, 4428]	9142	[9254, 9255]
1931	[3001, 3002]	4335	[5512, 2450]	6739	[6186, 2027]	9143	[9256, 3397]
1932	[3003, 427]	4336	[5513, 5514]	6740	[7385, 4133]	9144	[9257, 1053]
1933	[2783, 3004]	4337	[5515, 5516]	6741	[7386, 3866]	9145	[9258, 280]
1934	[3005, 3006]	4338	[5517, 5518]	6742	[6011, 2181]	9146	[9259, 104]
1935	[3007, 3008]	4339	[5519, 1289]	6743	[7387, 4253]	9147	[9260, 7997]
1936	[3009, 3010]	4340	[5520, 5521]	6744	[7388, 3741]	9148	[9261, 2456]
1937	[3011, 3012]	4341	[5522, 1309]	6745	[1486, 520]	9149	[9262, 9263]
1938	[3013, 3014]	4342	[5523, 5233]	6746	[7389, 4179]	9150	[9264, 9255]

1939	[3015, 3016]	4343	[5524, 1197]	6747	[7390, 6111]	9151	[9265, 6006]
1940	[1142, 3017]	4344	[5525, 5526]	6748	[5694, 6217]	9152	[9266, 493]
1941	[3018, 3019]	4345	[5527, 5528]	6749	[7391, 3816]	9153	[9267, 5822]
1942	[3020, 3021]	4346	[5529, 2752]	6750	[7392, 4286]	9154	[6013, 1716]
1943	[3022, 3023]	4347	[5530, 2401]	6751	[7393, 5664]	9155	[9268, 4314]
1944	[3024, 3025]	4348	[3106, 5531]	6752	[1857, 5951]	9156	[1734, 3623]
1945	[3026, 3027]	4349	[5532, 5220]	6753	[7394, 4442]	9157	[9269, 6258]
1946	[1339, 3028]	4350	[296, 5533]	6754	[4302, 3849]	9158	[9270, 3676]
1947	[3029, 3030]	4351	[111, 5534]	6755	[7395, 1527]	9159	[9271, 6134]
1948	[2331, 3031]	4352	[5535, 5112]	6756	[1514, 5794]	9160	[9272, 3835]
1949	[3032, 3033]	4353	[5536, 3279]	6757	[5991, 2191]	9161	[9273, 6373]
1950	[389, 3034]	4354	[5537, 2917]	6758	[7396, 725]	9162	[9274, 2099]
1951	[3035, 2817]	4355	[5538, 357]	6759	[5734, 2137]	9163	[9275, 4314]
1952	[3036, 3037]	4356	[5539, 2362]	6760	[1731, 1612]	9164	[9276, 3576]
1953	[3038, 3039]	4357	[5540, 2396]	6761	[555, 803]	9165	[9277, 6244]
1954	[3040, 1062]	4358	[3244, 5541]	6762	[7397, 734]	9166	[9278, 2174]
1955	[3041, 2790]	4359	[5542, 1362]	6763	[7398, 5804]	9167	[9279, 7381]
1956	[3042, 3043]	4360	[1025, 5543]	6764	[7399, 1531]	9168	[9280, 6178]
1957	[3044, 3045]	4361	[5544, 4886]	6765	[7400, 1830]	9169	[9281, 4432]
1958	[3046, 3047]	4362	[5545, 960]	6766	[1963, 3454]	9170	[9282, 8172]
1959	[3048, 3012]	4363	[4696, 5477]	6767	[7401, 5688]	9171	[9283, 3533]
1960	[3049, 3050]	4364	[2717, 5546]	6768	[3914, 573]	9172	[9284, 793]
1961	[916, 3051]	4365	[5547, 5548]	6769	[4394, 1792]	9173	[9285, 6387]
1962	[3052, 2829]	4366	[5105, 2992]	6770	[7402, 6015]	9174	[9286, 4049]
1963	[3053, 3054]	4367	[5549, 3385]	6771	[7403, 4156]	9175	[9287, 558]
1964	[3055, 2340]	4368	[5550, 3248]	6772	[7404, 3984]	9176	[9288, 5931]
1965	[3056, 2925]	4369	[5551, 5384]	6773	[127, 4311]	9177	[9289, 1953]
1966	[3057, 839]	4370	[5552, 5553]	6774	[7405, 3432]	9178	[9290, 4059]
1967	[2552, 3058]	4371	[5554, 5555]	6775	[7406, 6085]	9179	[9291, 6373]
1968	[3059, 2312]	4372	[2976, 5556]	6776	[3605, 3622]	9180	[9292, 5764]
1969	[2344, 3060]	4373	[2606, 4994]	6777	[7407, 1592]	9181	[9293, 1824]
1970	[3061, 3062]	4374	[5557, 5558]	6778	[7408, 4109]	9182	[9294, 6351]
1971	[3063, 2487]	4375	[5559, 5560]	6779	[7409, 7289]	9183	[9295, 1577]
1972	[3064, 3065]	4376	[5561, 3039]	6780	[1865, 472]	9184	[9296, 505]
1973	[2969, 3066]	4377	[2734, 5562]	6781	[7410, 1986]	9185	[9297, 6355]
1974	[3067, 3068]	4378	[5563, 5410]	6782	[7411, 127]	9186	[9298, 2101]
1975	[3069, 3070]	4379	[5564, 5565]	6783	[7412, 1885]	9187	[9299, 2201]
1976	[3071, 3072]	4380	[2565, 5566]	6784	[6043, 7275]	9188	[4021, 604]
1977	[3073, 1269]	4381	[3075, 1213]	6785	[4356, 186]	9189	[9300, 3606]
1978	[3074, 3075]	4382	[2783, 5567]	6786	[3519, 802]	9190	[9301, 3674]
1979	[3076, 3077]	4383	[5568, 2359]	6787	[7413, 1493]	9191	[9302, 6177]
1980	[3078, 3069]	4384	[5569, 4721]	6788	[7414, 4214]	9192	[9303, 8769]
1981	[3079, 2955]	4385	[2818, 5570]	6789	[5679, 1768]	9193	[9304, 5931]
1982	[3080, 3081]	4386	[5571, 3349]	6790	[7415, 6395]	9194	[9305, 3555]

1983	[3082, 3083]	4387	[5572, 4521]	6791	[7416, 718]	9195	[9306, 6258]
1984	[3084, 3085]	4388	[3376, 2701]	6792	[3602, 1919]	9196	[1839, 597]
1985	[3086, 1422]	4389	[5573, 5574]	6793	[7417, 7246]	9197	[9307, 2170]
1986	[78, 3087]	4390	[5575, 5576]	6794	[3610, 1713]	9198	[9308, 4186]
1987	[3088, 3089]	4391	[5577, 2670]	6795	[7418, 6387]	9199	[9309, 7492]
1988	[3090, 3091]	4392	[3034, 5578]	6796	[7419, 3837]	9200	[9310, 1631]
1989	[3092, 3093]	4393	[397, 5579]	6797	[4288, 7420]	9201	[499, 1716]
1990	[3094, 1211]	4394	[5580, 1018]	6798	[7421, 5982]	9202	[9311, 1957]
1991	[3095, 359]	4395	[5581, 4840]	6799	[7422, 5804]	9203	[6369, 1675]
1992	[3096, 3097]	4396	[5582, 5583]	6800	[7423, 1856]	9204	[9312, 5811]
1993	[3098, 3099]	4397	[1324, 5584]	6801	[2078, 2212]	9205	[9313, 4286]
1994	[3100, 3101]	4398	[5585, 3108]	6802	[6091, 7424]	9206	[9314, 3931]
1995	[3102, 3103]	4399	[5586, 3362]	6803	[7425, 4089]	9207	[9315, 2174]
1996	[3104, 3105]	4400	[5587, 1426]	6804	[7426, 1917]	9208	[9316, 7356]
1997	[3106, 3107]	4401	[5327, 4603]	6805	[7427, 7264]	9209	[9317, 6223]
1998	[3108, 3109]	4402	[2669, 1351]	6806	[7428, 5744]	9210	[9318, 44]
1999	[3110, 3111]	4403	[5588, 2282]	6807	[2019, 3945]	9211	[4217, 769]
2000	[3112, 3113]	4404	[3126, 2407]	6808	[7429, 4235]	9212	[9319, 6262]
2001	[3114, 3115]	4405	[5584, 3350]	6809	[7430, 3681]	9213	[9320, 4047]
2002	[3116, 3117]	4406	[5314, 5589]	6810	[4432, 1515]	9214	[9321, 4203]
2003	[3118, 2361]	4407	[5590, 1372]	6811	[7431, 3781]	9215	[3896, 531]
2004	[3119, 3120]	4408	[1373, 5591]	6812	[7432, 7433]	9216	[9322, 4039]
2005	[3121, 3122]	4409	[1197, 5592]	6813	[3479, 3787]	9217	[9323, 3726]
2006	[3123, 3124]	4410	[5593, 838]	6814	[7434, 3447]	9218	[9324, 5694]
2007	[3125, 3126]	4411	[1367, 2862]	6815	[1899, 4142]	9219	[9325, 4327]
2008	[887, 3127]	4412	[5594, 5595]	6816	[7435, 142]	9220	[9326, 4298]
2009	[344, 3128]	4413	[5596, 5597]	6817	[7436, 1984]	9221	[9327, 8246]
2010	[3129, 3130]	4414	[5598, 5599]	6818	[7437, 6387]	9222	[9328, 2102]
2011	[3131, 3132]	4415	[5600, 2242]	6819	[7438, 5796]	9223	[9329, 4414]
2012	[3133, 3134]	4416	[1204, 5601]	6820	[6158, 7439]	9224	[9330, 4365]
2013	[3135, 3136]	4417	[5602, 5603]	6821	[7243, 777]	9225	[9331, 2081]
2014	[3137, 404]	4418	[5604, 290]	6822	[7440, 2094]	9226	[9332, 5867]
2015	[2593, 3138]	4419	[5605, 3030]	6823	[7441, 1649]	9227	[9333, 7356]
2016	[1309, 1235]	4420	[934, 4592]	6824	[7442, 4232]	9228	[2228, 604]
2017	[3139, 336]	4421	[3346, 1047]	6825	[7443, 649]	9229	[9334, 8208]
2018	[1298, 3140]	4422	[5606, 5607]	6826	[731, 4360]	9230	[1636, 136]
2019	[3141, 1411]	4423	[5608, 5609]	6827	[7444, 3432]	9231	[9335, 1745]
2020	[350, 2985]	4424	[5610, 2926]	6828	[7445, 3565]	9232	[9336, 2047]
2021	[3142, 1189]	4425	[5611, 2527]	6829	[7446, 36]	9233	[9337, 5922]
2022	[3143, 3144]	4426	[5612, 5613]	6830	[3885, 1795]	9234	[9338, 6200]
2023	[3145, 3146]	4427	[5614, 2514]	6831	[7447, 7448]	9235	[9339, 1603]
2024	[3147, 3148]	4428	[2495, 5615]	6832	[5691, 1773]	9236	[9340, 5667]
2025	[2461, 2718]	4429	[5616, 1348]	6833	[7449, 727]	9237	[9341, 5938]
2026	[3149, 2335]	4430	[5617, 5618]	6834	[7450, 3946]	9238	[9342, 2081]

2027	[911, 3150]	4431	[5619, 2333]	6835	[7451, 6439]	9239	[9343, 6200]
2028	[16, 3151]	4432	[5620, 5621]	6836	[4399, 1998]	9240	[9344, 5811]
2029	[3152, 3153]	4433	[5622, 5623]	6837	[4034, 4122]	9241	[9345, 222]
2030	[3154, 2557]	4434	[4695, 4804]	6838	[7452, 3725]	9242	[9346, 8119]
2031	[3155, 3156]	4435	[5624, 4766]	6839	[7453, 6015]	9243	[9347, 3738]
2032	[3157, 3158]	4436	[5625, 5626]	6840	[7454, 707]	9244	[9348, 798]
2033	[3159, 1321]	4437	[5438, 2320]	6841	[7455, 4226]	9245	[9349, 7497]
2034	[3160, 3161]	4438	[5627, 2689]	6842	[7456, 6322]	9246	[3918, 697]
2035	[3162, 3163]	4439	[5628, 1231]	6843	[6006, 204]	9247	[9350, 3835]
2036	[2387, 3164]	4440	[5629, 5630]	6844	[716, 1691]	9248	[9351, 7589]
2037	[3165, 3166]	4441	[5631, 5632]	6845	[7457, 4368]	9249	[9352, 739]
2038	[3167, 2379]	4442	[418, 5633]	6846	[6102, 3639]	9250	[3504, 3613]
2039	[3168, 3169]	4443	[5634, 2554]	6847	[528, 4284]	9251	[9353, 3576]
2040	[3170, 3171]	4444	[5635, 344]	6848	[7458, 4436]	9252	[9354, 6342]
2041	[3172, 1393]	4445	[2929, 5266]	6849	[2198, 782]	9253	[9355, 5667]
2042	[1074, 3173]	4446	[5636, 2397]	6850	[173, 151]	9254	[9356, 8201]
2043	[3174, 3175]	4447	[5637, 5638]	6851	[5716, 3994]	9255	[1689, 42]
2044	[3176, 1365]	4448	[5639, 5314]	6852	[7459, 1964]	9256	[9357, 5927]
2045	[3020, 3177]	4449	[900, 5640]	6853	[1829, 624]	9257	[9358, 5772]
2046	[3178, 3179]	4450	[2537, 5641]	6854	[7460, 1621]	9258	[9359, 6178]
2047	[3180, 3181]	4451	[5642, 2434]	6855	[7461, 1519]	9259	[9360, 7504]
2048	[3182, 3183]	4452	[3385, 2306]	6856	[615, 2002]	9260	[9361, 3686]
2049	[2233, 3184]	4453	[5643, 5644]	6857	[7462, 1801]	9261	[9362, 6006]
2050	[3185, 3186]	4454	[2386, 4633]	6858	[7463, 4214]	9262	[9363, 7227]
2051	[3187, 414]	4455	[4953, 5645]	6859	[7464, 1766]	9263	[510, 1476]
2052	[3188, 3189]	4456	[1401, 2331]	6860	[7465, 4128]	9264	[9364, 1718]
2053	[3190, 3191]	4457	[5646, 4657]	6861	[7466, 44]	9265	[9365, 6632]
2054	[3192, 90]	4458	[2496, 4919]	6862	[7412, 6304]	9266	[5066, 893]
2055	[3193, 2402]	4459	[2853, 5647]	6863	[7467, 1802]	9267	[9366, 2386]
2056	[1315, 3194]	4460	[5648, 5649]	6864	[7468, 5923]	9268	[6647, 1336]
2057	[3195, 1428]	4461	[5650, 5651]	6865	[7469, 7240]	9269	[4608, 288]
2058	[3196, 3197]	4462	[4920, 5509]	6866	[1541, 652]	9270	[9367, 2987]
2059	[3198, 3199]	4463	[5291, 911]	6867	[7470, 3646]	9271	[842, 9368]
2060	[274, 3200]	4464	[5652, 5447]	6868	[7436, 3945]	9272	[9369, 9215]
2061	[416, 2869]	4465	[4748, 2387]	6869	[7471, 4436]	9273	[9370, 8636]
2062	[3201, 2565]	4466	[807, 5126]	6870	[7472, 5922]	9274	[9371, 1246]
2063	[352, 2735]	4467	[5653, 4811]	6871	[3764, 1558]	9275	[9372, 1226]
2064	[3202, 3084]	4468	[5654, 5226]	6872	[7473, 3781]	9276	[9373, 4936]
2065	[823, 3203]	4469	[5280, 2393]	6873	[4398, 6446]	9277	[9374, 2853]
2066	[67, 3204]	4470	[5655, 1394]	6874	[7474, 51]	9278	[9375, 8917]
2067	[3205, 3206]	4471	[5656, 1387]	6875	[7475, 6422]	9279	[9376, 8921]
2068	[3207, 1279]	4472	[5657, 4553]	6876	[7476, 4232]	9280	[9377, 5035]
2069	[3208, 3209]	4473	[3151, 5067]	6877	[7477, 4049]	9281	[9378, 7830]
2070	[2707, 3210]	4474	[5658, 5392]	6878	[1910, 760]	9282	[9379, 4905]

2071	[3211, 3045]	4475	[1236, 5659]	6879	[3980, 7478]	9283	[9380, 4807]
2072	[344, 3212]	4476	[2087, 1882]	6880	[1639, 3638]	9284	[902, 1426]
2073	[3062, 2993]	4477	[5660, 558]	6881	[7479, 704]	9285	[9381, 5036]
2074	[3213, 3214]	4478	[5661, 718]	6882	[3895, 3857]	9286	[9382, 2431]
2075	[1005, 1054]	4479	[5662, 4071]	6883	[7480, 2202]	9287	[9383, 2268]
2076	[3215, 3216]	4480	[143, 3895]	6884	[7481, 3527]	9288	[9384, 2265]
2077	[3217, 3218]	4481	[4348, 3693]	6885	[7482, 7483]	9289	[4812, 1253]
2078	[3219, 831]	4482	[5663, 5664]	6886	[7484, 559]	9290	[9385, 6484]
2079	[1440, 3220]	4483	[5665, 741]	6887	[7485, 641]	9291	[9386, 274]
2080	[2271, 3221]	4484	[5666, 1903]	6888	[7482, 5899]	9292	[6658, 6789]
2081	[3222, 3223]	4485	[5667, 5668]	6889	[6032, 5703]	9293	[9387, 3097]
2082	[3224, 3225]	4486	[5669, 4368]	6890	[1492, 4473]	9294	[9388, 3090]
2083	[3226, 3227]	4487	[5670, 1733]	6891	[7486, 734]	9295	[9389, 5366]
2084	[1411, 2328]	4488	[5671, 1817]	6892	[608, 3524]	9296	[6586, 8924]
2085	[3228, 3229]	4489	[3446, 1540]	6893	[7487, 1586]	9297	[9390, 3368]
2086	[3230, 3231]	4490	[5672, 2205]	6894	[782, 3482]	9298	[9391, 9392]
2087	[3232, 2932]	4491	[3680, 125]	6895	[7488, 4278]	9299	[9393, 5142]
2088	[3233, 3234]	4492	[4256, 1716]	6896	[6108, 803]	9300	[9394, 2412]
2089	[3235, 3236]	4493	[5673, 1817]	6897	[7489, 536]	9301	[9395, 1381]
2090	[3237, 867]	4494	[4265, 543]	6898	[7490, 677]	9302	[9396, 1121]
2091	[3238, 3239]	4495	[788, 5674]	6899	[7491, 7492]	9303	[9397, 2263]
2092	[3193, 3240]	4496	[572, 5675]	6900	[7493, 5887]	9304	[9398, 9211]
2093	[2298, 2844]	4497	[2123, 3764]	6901	[7494, 6341]	9305	[9399, 1204]
2094	[3241, 2342]	4498	[161, 3740]	6902	[5925, 6004]	9306	[9400, 333]
2095	[2454, 3242]	4499	[5676, 1995]	6903	[7495, 4420]	9307	[9401, 2790]
2096	[3243, 990]	4500	[4226, 453]	6904	[4095, 3971]	9308	[9402, 6569]
2097	[916, 3244]	4501	[3972, 5677]	6905	[7496, 7497]	9309	[9403, 2340]
2098	[3245, 2300]	4502	[5678, 4422]	6906	[4113, 2168]	9310	[9404, 5548]
2099	[3246, 3247]	4503	[5679, 2093]	6907	[3492, 4168]	9311	[2505, 4632]
2100	[3248, 3249]	4504	[2102, 5680]	6908	[4046, 7498]	9312	[9405, 2382]
2101	[3250, 3251]	4505	[5681, 3792]	6909	[5959, 735]	9313	[9406, 1330]
2102	[3252, 249]	4506	[4340, 4129]	6910	[5860, 1684]	9314	[7042, 9407]
2103	[3253, 310]	4507	[5682, 553]	6911	[5736, 4153]	9315	[5559, 4738]
2104	[3254, 3255]	4508	[4452, 4122]	6912	[7499, 3788]	9316	[9408, 2612]
2105	[2966, 1417]	4509	[5683, 1580]	6913	[1873, 1725]	9317	[9409, 268]
2106	[3256, 2605]	4510	[1505, 676]	6914	[7500, 3968]	9318	[9410, 5134]
2107	[3257, 1033]	4511	[1560, 2230]	6915	[5955, 606]	9319	[9411, 4638]
2108	[3258, 2295]	4512	[3460, 160]	6916	[3876, 646]	9320	[4599, 9412]
2109	[2810, 2772]	4513	[3960, 1680]	6917	[1732, 1613]	9321	[9413, 6553]
2110	[3259, 2484]	4514	[473, 3450]	6918	[4369, 7501]	9322	[2729, 7723]
2111	[3260, 3261]	4515	[1517, 5684]	6919	[7502, 4196]	9323	[6965, 5093]
2112	[2923, 3262]	4516	[123, 639]	6920	[7503, 7504]	9324	[9414, 4653]
2113	[3263, 2745]	4517	[798, 5685]	6921	[7505, 6151]	9325	[4702, 846]
2114	[3264, 2965]	4518	[1552, 4016]	6922	[3677, 5781]	9326	[9415, 3382]

2115	[3265, 3266]	4519	[5686, 5687]	6923	[7506, 2115]	9327	[9416, 3220]
2116	[2235, 3267]	4520	[3795, 3545]	6924	[661, 2128]	9328	[6833, 3155]
2117	[3268, 361]	4521	[53, 1624]	6925	[7507, 1458]	9329	[9417, 2728]
2118	[3269, 3270]	4522	[5688, 1658]	6926	[7508, 648]	9330	[5615, 4526]
2119	[3271, 3272]	4523	[5689, 4095]	6927	[7509, 5738]	9331	[9418, 5139]
2120	[3273, 3274]	4524	[3898, 5680]	6928	[7510, 3591]	9332	[9419, 2855]
2121	[3275, 3276]	4525	[5690, 1588]	6929	[7511, 6032]	9333	[1258, 4579]
2122	[3277, 3278]	4526	[2033, 565]	6930	[5741, 3632]	9334	[3200, 5411]
2123	[3279, 2420]	4527	[4015, 3758]	6931	[2044, 7420]	9335	[7159, 268]
2124	[3280, 3281]	4528	[5691, 485]	6932	[7512, 4046]	9336	[9420, 1072]
2125	[3282, 2797]	4529	[3606, 5692]	6933	[7513, 6373]	9337	[9421, 9201]
2126	[2943, 3283]	4530	[1809, 652]	6934	[7514, 3632]	9338	[1270, 6880]
2127	[2435, 3284]	4531	[676, 4261]	6935	[7515, 3715]	9339	[4828, 3260]
2128	[3285, 3286]	4532	[677, 173]	6936	[3931, 4011]	9340	[9422, 6463]
2129	[2872, 3287]	4533	[160, 3475]	6937	[627, 5951]	9341	[9423, 4941]
2130	[3288, 3289]	4534	[5693, 5694]	6938	[7516, 6304]	9342	[1311, 2817]
2131	[3290, 3291]	4535	[5695, 5696]	6939	[7517, 5738]	9343	[9424, 5246]
2132	[3292, 3293]	4536	[772, 1662]	6940	[6405, 7275]	9344	[1318, 4503]
2133	[3294, 3295]	4537	[769, 1509]	6941	[3458, 4090]	9345	[9425, 425]
2134	[2983, 3296]	4538	[154, 4004]	6942	[7518, 2222]	9346	[9426, 1269]
2135	[3297, 3298]	4539	[5697, 1809]	6943	[6147, 3833]	9347	[9427, 2919]
2136	[3299, 361]	4540	[3730, 5698]	6944	[2137, 3602]	9348	[9428, 2761]
2137	[3300, 3301]	4541	[578, 3790]	6945	[3931, 1533]	9349	[1331, 931]
2138	[3302, 3225]	4542	[5699, 451]	6946	[5891, 2181]	9350	[9429, 1154]
2139	[3303, 2472]	4543	[5700, 4253]	6947	[5764, 4108]	9351	[9430, 922]
2140	[3304, 3305]	4544	[5701, 1562]	6948	[7519, 3781]	9352	[9431, 4783]
2141	[3306, 3307]	4545	[5702, 5703]	6949	[5953, 3643]	9353	[1370, 6623]
2142	[3308, 1186]	4546	[5704, 3658]	6950	[547, 7520]	9354	[1384, 9392]
2143	[3309, 19]	4547	[3997, 1950]	6951	[7521, 2158]	9355	[9432, 8644]
2144	[3310, 3122]	4548	[3735, 5705]	6952	[4458, 479]	9356	[6684, 3407]
2145	[3311, 3312]	4549	[5706, 1646]	6953	[1907, 4417]	9357	[9433, 4630]
2146	[267, 3313]	4550	[5707, 1992]	6954	[7522, 4026]	9358	[9434, 8603]
2147	[3314, 3066]	4551	[5708, 1902]	6955	[7523, 2118]	9359	[9435, 8615]
2148	[2762, 3315]	4552	[5709, 211]	6956	[7524, 6197]	9360	[9436, 995]
2149	[3316, 2914]	4553	[1808, 3942]	6957	[1702, 4351]	9361	[1412, 2329]
2150	[2246, 3317]	4554	[5710, 3989]	6958	[2112, 1588]	9362	[9437, 5051]
2151	[3318, 3319]	4555	[4135, 3653]	6959	[1753, 1722]	9363	[1430, 7030]
2152	[3320, 2762]	4556	[496, 3662]	6960	[34, 4454]	9364	[9438, 5521]
2153	[2326, 3321]	4557	[5711, 178]	6961	[4115, 3487]	9365	[9439, 3759]
2154	[2478, 3322]	4558	[775, 1893]	6962	[6063, 6159]	9366	[9440, 6306]
2155	[3323, 3151]	4559	[5712, 2069]	6963	[7525, 7433]	9367	[9441, 3674]
2156	[812, 3324]	4560	[5713, 5714]	6964	[5880, 608]	9368	[4267, 3693]
2157	[2568, 3325]	4561	[1812, 2006]	6965	[7526, 6085]	9369	[9442, 4365]
2158	[3326, 3327]	4562	[5715, 790]	6966	[7527, 7528]	9370	[9443, 6408]

2159	[3328, 875]	4563	[2110, 1604]	6967	[6019, 187]	9371	[9444, 6367]
2160	[3329, 3330]	4564	[5716, 3467]	6968	[7529, 3869]	9372	[9445, 2029]
2161	[3331, 3332]	4565	[5717, 3606]	6969	[2059, 2178]	9373	[9446, 619]
2162	[3333, 1219]	4566	[3925, 1657]	6970	[7530, 6063]	9374	[9447, 8153]
2163	[2357, 3334]	4567	[4244, 3511]	6971	[7531, 6029]	9375	[9448, 3477]
2164	[3335, 3336]	4568	[5718, 1514]	6972	[6427, 3890]	9376	[9449, 5751]
2165	[3337, 3338]	4569	[2214, 4089]	6973	[2062, 4158]	9377	[9450, 4244]
2166	[2810, 3339]	4570	[5719, 568]	6974	[7532, 3907]	9378	[9451, 1953]
2167	[3340, 3341]	4571	[5720, 3792]	6975	[1591, 1637]	9379	[9452, 4304]
2168	[292, 3342]	4572	[5721, 4414]	6976	[7533, 45]	9380	[9453, 6408]
2169	[3343, 3344]	4573	[5722, 3865]	6977	[1600, 530]	9381	[9454, 5967]
2170	[3345, 3346]	4574	[3535, 5723]	6978	[7534, 1714]	9382	[9455, 7381]
2171	[2685, 2424]	4575	[3984, 1553]	6979	[7220, 3945]	9383	[9456, 3468]
2172	[3347, 2954]	4576	[5724, 3988]	6980	[7535, 3641]	9384	[9457, 8297]
2173	[3348, 3349]	4577	[1966, 551]	6981	[7536, 2121]	9385	[9458, 5887]
2174	[3350, 3351]	4578	[5725, 1523]	6982	[7537, 3715]	9386	[9459, 7227]
2175	[2519, 3352]	4579	[2206, 4249]	6983	[1446, 741]	9387	[9460, 176]
2176	[3353, 3354]	4580	[5726, 680]	6984	[7538, 1731]	9388	[9461, 6347]
2177	[1409, 3355]	4581	[787, 1786]	6985	[7539, 1597]	9389	[9462, 222]
2178	[3356, 3357]	4582	[5727, 5728]	6986	[7540, 144]	9390	[9463, 2050]
2179	[3358, 2671]	4583	[4404, 1682]	6987	[7541, 7542]	9391	[9464, 690]
2180	[2983, 3359]	4584	[5729, 3922]	6988	[7543, 2067]	9392	[3562, 61]
2181	[1279, 3360]	4585	[5730, 5731]	6989	[7544, 7545]	9393	[9465, 4398]
2182	[3361, 1121]	4586	[4433, 1516]	6990	[7546, 727]	9394	[9466, 4186]
2183	[3362, 3363]	4587	[5732, 189]	6991	[7547, 1635]	9395	[9467, 7576]
2184	[1139, 3364]	4588	[5733, 1878]	6992	[7548, 6395]	9396	[9468, 6320]
2185	[3365, 3366]	4589	[2025, 5675]	6993	[7549, 2182]	9397	[9469, 5703]
2186	[3367, 3368]	4590	[5734, 541]	6994	[5698, 1671]	9398	[9470, 8769]
2187	[3369, 3370]	4591	[4089, 5735]	6995	[7550, 1887]	9399	[9471, 5800]
2188	[3371, 3372]	4592	[4448, 5736]	6996	[5781, 3471]	9400	[9472, 6174]
2189	[3218, 3373]	4593	[5737, 5738]	6997	[4258, 3452]	9401	[9473, 6422]
2190	[3374, 3375]	4594	[542, 2106]	6998	[7551, 2121]	9402	[9474, 4314]
2191	[1280, 3376]	4595	[5739, 745]	6999	[3701, 788]	9403	[9475, 7622]
2192	[3377, 3378]	4596	[5740, 1698]	7000	[7552, 3452]	9404	[9476, 6306]
2193	[3379, 3380]	4597	[590, 5741]	7001	[7553, 1687]	9405	[9477, 1515]
2194	[3381, 3382]	4598	[1687, 5742]	7002	[7554, 6258]	9406	[9478, 7433]
2195	[967, 3383]	4599	[5743, 5744]	7003	[7555, 5731]	9407	[6341, 1685]
2196	[3384, 3385]	4600	[5745, 5746]	7004	[7556, 2029]	9408	[9479, 3978]
2197	[76, 271]	4601	[5747, 1901]	7005	[7557, 6320]	9409	[9480, 5895]
2198	[2652, 3386]	4602	[4147, 3950]	7006	[7558, 4355]	9410	[9481, 4009]
2199	[2508, 935]	4603	[5748, 3519]	7007	[7559, 1801]	9411	[9482, 7542]
2200	[3387, 3388]	4604	[670, 800]	7008	[7560, 3686]	9412	[1771, 1916]
2201	[3389, 3390]	4605	[4332, 41]	7009	[4409, 1529]	9413	[9483, 7545]
2202	[3391, 3392]	4606	[793, 3541]	7010	[491, 2008]	9414	[9484, 3552]

2203	[3393, 3394]	4607	[5749, 796]	7011	[7561, 4104]	9415	[9485, 474]
2204	[886, 3395]	4608	[1486, 3843]	7012	[4123, 1722]	9416	[9486, 6377]
2205	[3396, 3397]	4609	[5750, 5751]	7013	[7562, 461]	9417	[9487, 5751]
2206	[3398, 3399]	4610	[5752, 3565]	7014	[672, 3481]	9418	[9488, 2067]
2207	[417, 2261]	4611	[5753, 5754]	7015	[3595, 3873]	9419	[9489, 7589]
2208	[3400, 3401]	4612	[5755, 3905]	7016	[7563, 3552]	9420	[9490, 8166]
2209	[2526, 3402]	4613	[5756, 2204]	7017	[5810, 3493]	9421	[9491, 4029]
2210	[1007, 3403]	4614	[5757, 5758]	7018	[6215, 6439]	9422	[9492, 3696]
2211	[3404, 3405]	4615	[5759, 4193]	7019	[4456, 1813]	9423	[9493, 4327]
2212	[3406, 3407]	4616	[3454, 1873]	7020	[4239, 756]	9424	[9494, 498]
2213	[3408, 3229]	4617	[5760, 773]	7021	[1494, 4289]	9425	[9495, 775]
2214	[3409, 3410]	4618	[162, 3586]	7022	[4333, 3462]	9426	[9496, 7666]
2215	[3411, 2580]	4619	[5761, 2126]	7023	[3752, 4055]	9427	[9497, 2206]
2216	[3412, 2766]	4620	[5762, 5757]	7024	[7564, 3455]	9428	[9498, 4448]
2217	[3413, 2917]	4621	[5763, 3618]	7025	[7565, 4128]	9429	[9499, 202]
2218	[3414, 3415]	4622	[5764, 3634]	7026	[4282, 2140]	9430	[9500, 7342]
2219	[3287, 3416]	4623	[4425, 4364]	7027	[7566, 3551]	9431	[9501, 5804]
2220	[3417, 3378]	4624	[5765, 5766]	7028	[685, 1458]	9432	[9502, 501]
2221	[3418, 3419]	4625	[196, 3530]	7029	[7567, 3533]	9433	[9503, 4030]
2222	[3420, 3421]	4626	[5767, 489]	7030	[6282, 5794]	9434	[9504, 1753]
2223	[3422, 3419]	4627	[5768, 4375]	7031	[7568, 3819]	9435	[9505, 3759]
2224	[3423, 2410]	4628	[4018, 1557]	7032	[7569, 5808]	9436	[9506, 8201]
2225	[1159, 2789]	4629	[2007, 4158]	7033	[7570, 7497]	9437	[9507, 4244]
2226	[3424, 3425]	4630	[3810, 1529]	7034	[495, 3622]	9438	[9508, 775]
2227	[3426, 3427]	4631	[696, 1755]	7035	[7571, 3891]	9439	[3184, 1190]
2228	[2852, 2864]	4632	[1602, 3906]	7036	[6225, 7572]	9440	[9509, 1085]
2229	[2751, 3428]	4633	[3601, 4220]	7037	[7573, 528]	9441	[9510, 9188]
2230	[3093, 3429]	4634	[1736, 2152]	7038	[6272, 1456]	9442	[9511, 8515]
2231	[72, 3430]	4635	[5769, 3951]	7039	[7574, 1844]	9443	[2902, 6973]
2232	[3431, 3432]	4636	[3912, 122]	7040	[5922, 4329]	9444	[9512, 1089]
2233	[3433, 184]	4637	[4074, 5770]	7041	[7575, 7576]	9445	[2373, 9513]
2234	[3434, 3435]	4638	[1835, 166]	7042	[7577, 629]	9446	[9514, 9007]
2235	[3436, 218]	4639	[5771, 1856]	7043	[7578, 1849]	9447	[5562, 74]
2236	[1904, 218]	4640	[5665, 509]	7044	[7579, 3674]	9448	[9515, 2959]
2237	[2152, 1588]	4641	[5772, 776]	7045	[7580, 5822]	9449	[2390, 4974]
2238	[3437, 3438]	4642	[165, 1839]	7046	[7494, 795]	9450	[4650, 2421]
2239	[3439, 1519]	4643	[5773, 1982]	7047	[7581, 1960]	9451	[9516, 6780]
2240	[3440, 156]	4644	[1644, 3887]	7048	[7582, 4186]	9452	[2464, 7731]
2241	[3441, 160]	4645	[5774, 1649]	7049	[1781, 3968]	9453	[9517, 2327]
2242	[215, 162]	4646	[5775, 5687]	7050	[7583, 1942]	9454	[2493, 1110]
2243	[3442, 584]	4647	[3921, 4246]	7051	[7584, 6377]	9455	[9518, 1397]
2244	[3443, 1771]	4648	[5776, 1827]	7052	[7585, 4279]	9456	[9519, 379]
2245	[3444, 2037]	4649	[5777, 801]	7053	[7586, 3465]	9457	[9520, 1191]
2246	[3445, 1969]	4650	[3626, 3810]	7054	[7587, 1715]	9458	[9521, 1321]

2247	[3446, 1985]	4651	[5778, 1580]	7055	[7588, 7589]	9459	[9522, 5132]
2248	[584, 3447]	4652	[5779, 3676]	7056	[738, 1823]	9460	[9523, 6896]
2249	[576, 3448]	4653	[5780, 1758]	7057	[7590, 699]	9461	[2578, 1251]
2250	[3449, 3450]	4654	[163, 1881]	7058	[7591, 450]	9462	[9524, 5275]
2251	[3451, 2083]	4655	[4186, 5781]	7059	[7592, 6306]	9463	[5374, 6960]
2252	[1939, 3452]	4656	[5782, 1872]	7060	[7593, 4278]	9464	[3428, 3221]
2253	[3453, 1870]	4657	[5783, 4454]	7061	[5933, 1636]	9465	[9525, 9154]
2254	[3454, 1517]	4658	[5784, 3662]	7062	[7594, 1591]	9466	[9526, 9368]
2255	[3455, 3456]	4659	[5785, 4113]	7063	[7595, 2230]	9467	[9527, 4770]
2256	[3457, 2086]	4660	[181, 5786]	7064	[1958, 3815]	9468	[9528, 293]
2257	[1523, 3458]	4661	[3567, 2146]	7065	[7596, 4228]	9469	[2709, 2351]
2258	[3459, 1460]	4662	[5787, 4422]	7066	[7597, 501]	9470	[5027, 109]
2259	[1979, 3460]	4663	[3859, 4233]	7067	[7598, 3891]	9471	[9529, 5405]
2260	[3461, 780]	4664	[5788, 3435]	7068	[7599, 3772]	9472	[6457, 8638]
2261	[592, 445]	4665	[5789, 5790]	7069	[7600, 3586]	9473	[9530, 2717]
2262	[762, 3462]	4666	[5791, 1751]	7070	[7601, 5694]	9474	[3339, 921]
2263	[3463, 3464]	4667	[5792, 4461]	7071	[7602, 463]	9475	[9531, 2667]
2264	[522, 3465]	4668	[4444, 3798]	7072	[3967, 2039]	9476	[9532, 9513]
2265	[799, 471]	4669	[1895, 616]	7073	[5804, 3931]	9477	[2885, 5461]
2266	[1831, 1823]	4670	[5793, 3721]	7074	[4170, 6424]	9478	[5328, 6604]
2267	[467, 1838]	4671	[3828, 5794]	7075	[7603, 3979]	9479	[2891, 2551]
2268	[3466, 3467]	4672	[1860, 3895]	7076	[7604, 1493]	9480	[4637, 7019]
2269	[3468, 197]	4673	[3976, 3447]	7077	[7605, 1911]	9481	[9533, 7853]
2270	[3469, 777]	4674	[5795, 5796]	7078	[3980, 6169]	9482	[7818, 1170]
2271	[3470, 3471]	4675	[172, 150]	7079	[7606, 3552]	9483	[9534, 2851]
2272	[3472, 3473]	4676	[3835, 4187]	7080	[3473, 4035]	9484	[3051, 6622]
2273	[3474, 2007]	4677	[5797, 1948]	7081	[7607, 1794]	9485	[5170, 1281]
2274	[2073, 3475]	4678	[5798, 459]	7082	[5711, 1456]	9486	[3064, 6575]
2275	[3476, 3477]	4679	[5799, 2118]	7083	[7608, 3807]	9487	[9535, 3288]
2276	[3478, 598]	4680	[4384, 1560]	7084	[783, 1629]	9488	[3102, 8568]
2277	[3479, 3480]	4681	[5800, 4236]	7085	[5784, 3863]	9489	[6997, 1337]
2278	[3481, 3482]	4682	[5801, 5802]	7086	[7609, 1946]	9490	[9536, 1429]
2279	[3483, 1733]	4683	[5803, 461]	7087	[7610, 44]	9491	[5298, 6969]
2280	[666, 1548]	4684	[5804, 4067]	7088	[7611, 7589]	9492	[3191, 3024]
2281	[3484, 3485]	4685	[5805, 1659]	7089	[7612, 6229]	9493	[9537, 2690]
2282	[3486, 3487]	4686	[5806, 3723]	7090	[7578, 548]	9494	[3246, 6523]
2283	[3488, 1460]	4687	[5807, 5808]	7091	[5838, 3803]	9495	[9538, 262]
2284	[3489, 1809]	4688	[781, 3481]	7092	[7613, 3543]	9496	[6472, 4989]
2285	[1854, 1566]	4689	[5809, 4258]	7093	[7614, 677]	9497	[3254, 7756]
2286	[3490, 55]	4690	[5810, 1883]	7094	[7615, 3704]	9498	[9539, 8540]
2287	[3491, 682]	4691	[5811, 229]	7095	[7616, 7545]	9499	[5478, 390]
2288	[3492, 1617]	4692	[5812, 3601]	7096	[7617, 1483]	9500	[3269, 8077]
2289	[1882, 3493]	4693	[5813, 507]	7097	[3655, 4104]	9501	[9540, 7815]
2290	[2201, 3494]	4694	[5814, 2170]	7098	[7618, 230]	9502	[9541, 5075]

2291	[3495, 1562]	4695	[5815, 3699]	7099	[7619, 4074]	9503	[3424, 8915]
2292	[1490, 2066]	4696	[5816, 3563]	7100	[2051, 3961]	9504	[6810, 5641]
2293	[3496, 622]	4697	[1770, 1858]	7101	[7620, 3586]	9505	[9542, 4948]
2294	[3497, 634]	4698	[5817, 3907]	7102	[7621, 7622]	9506	[9543, 830]
2295	[3498, 1780]	4699	[3510, 3730]	7103	[7623, 2186]	9507	[9544, 5543]
2296	[47, 3499]	4700	[5818, 4193]	7104	[6349, 9]	9508	[9545, 8579]
2297	[3500, 3501]	4701	[562, 1922]	7105	[7624, 1977]	9509	[9546, 5863]
2298	[3502, 1865]	4702	[1964, 1477]	7106	[7625, 4291]	9510	[9547, 2]
2299	[3503, 790]	4703	[5819, 4226]	7107	[6032, 6211]	9511	[9548, 3882]
2300	[1513, 3475]	4704	[5820, 59]	7108	[7626, 7627]	9512	[9549, 2]
2301	[3504, 1568]	4705	[5821, 5822]	7109	[3564, 3956]	9513	[3558, 769]
2302	[3505, 1791]	4706	[631, 2200]	7110	[7628, 2052]	9514	[9550, 127]
2303	[3506, 1658]	4707	[3863, 1634]	7111	[3582, 4385]	9515	[9551, 2121]
2304	[3507, 3508]	4708	[2101, 3597]	7112	[7629, 5955]	9516	[9552, 2124]
2305	[1610, 453]	4709	[5823, 156]	7113	[6171, 6160]	9517	[9553, 5770]
2306	[1708, 3509]	4710	[5824, 671]	7114	[7630, 3723]	9518	[9554, 7627]
2307	[3510, 3511]	4711	[1, 751]	7115	[7434, 585]	9519	[9555, 704]
2308	[3512, 3513]	4712	[5825, 3730]	7116	[5888, 2034]	9520	[9556, 3784]
2309	[3514, 225]	4713	[480, 1790]	7117	[7631, 4261]	9521	[9557, 4338]
2310	[3515, 637]	4714	[5826, 1810]	7118	[7632, 1742]	9522	[9558, 6232]
2311	[3516, 1865]	4715	[5827, 4196]	7119	[7633, 3819]	9523	[9559, 2182]
2312	[3517, 1865]	4716	[5828, 4235]	7120	[1469, 4097]	9524	[9560, 3866]
2313	[185, 778]	4717	[4336, 531]	7121	[7634, 3569]	9525	[9561, 633]
2314	[3518, 3519]	4718	[5829, 4137]	7122	[7635, 5800]	9526	[9562, 493]
2315	[718, 3520]	4719	[742, 3776]	7123	[56, 1702]	9527	[9563, 2195]
2316	[3521, 3522]	4720	[5830, 3928]	7124	[7636, 7497]	9528	[9564, 7677]
2317	[3523, 668]	4721	[2145, 1862]	7125	[2188, 1773]	9529	[9565, 134]
2318	[3524, 3525]	4722	[5831, 3615]	7126	[7637, 1960]	9530	[9566, 7448]
2319	[3526, 3527]	4723	[4148, 5832]	7127	[2198, 3481]	9531	[9567, 3807]
2320	[3528, 3529]	4724	[5833, 3482]	7128	[7638, 5688]	9532	[9568, 7622]
2321	[3530, 3531]	4725	[5834, 3437]	7129	[751, 1597]	9533	[9569, 1483]
2322	[3532, 3533]	4726	[5835, 1514]	7130	[7639, 4177]	9534	[9570, 8297]
2323	[1449, 1702]	4727	[1713, 491]	7131	[7640, 1893]	9535	[9571, 2116]
2324	[3534, 2118]	4728	[5836, 5808]	7132	[4111, 649]	9536	[9572, 4039]
2325	[3535, 3536]	4729	[3838, 2049]	7133	[7641, 798]	9537	[9573, 548]
2326	[671, 2198]	4730	[3468, 3530]	7134	[6335, 3664]	9538	[9574, 501]
2327	[3537, 207]	4731	[5837, 1731]	7135	[7642, 1618]	9539	[9575, 3502]
2328	[3538, 656]	4732	[712, 5838]	7136	[1684, 1757]	9540	[9576, 134]
2329	[502, 479]	4733	[3596, 1522]	7137	[7643, 1646]	9541	[9577, 135]
2330	[3539, 3540]	4734	[1603, 2111]	7138	[7644, 3620]	9542	[9578, 1949]
2331	[3541, 1780]	4735	[1896, 446]	7139	[7645, 582]	9543	[9579, 3452]
2332	[3542, 3543]	4736	[5839, 4390]	7140	[7646, 202]	9544	[9580, 145]
2333	[3544, 3545]	4737	[5840, 2132]	7141	[1484, 3857]	9545	[9581, 3696]
2334	[3546, 2083]	4738	[600, 1465]	7142	[7647, 5965]	9546	[9582, 2818]

2335	[3547, 3548]	4739	[1687, 5841]	7143	[1919, 2152]	9547	[5239, 2596]
2336	[1957, 3549]	4740	[5842, 1671]	7144	[7648, 3527]	9548	[4610, 7125]
2337	[3550, 3551]	4741	[5843, 558]	7145	[3460, 2073]	9549	[9583, 1388]
2338	[3552, 184]	4742	[4310, 4218]	7146	[1742, 4071]	9550	[9584, 2980]
2339	[3501, 3553]	4743	[5844, 5714]	7147	[7649, 7201]	9551	[9585, 3050]
2340	[3554, 43]	4744	[4098, 5845]	7148	[7650, 6355]	9552	[4741, 8562]
2341	[3555, 3556]	4745	[5846, 3551]	7149	[7651, 4102]	9553	[4779, 5505]
2342	[3557, 1509]	4746	[1763, 5847]	7150	[7652, 3485]	9554	[9586, 4892]
2343	[168, 1465]	4747	[5848, 5687]	7151	[6045, 5832]	9555	[4819, 1277]
2344	[3558, 165]	4748	[5849, 594]	7152	[523, 716]	9556	[4831, 2899]
2345	[602, 1689]	4749	[2066, 3550]	7153	[7653, 1468]	9557	[9587, 1009]
2346	[471, 1823]	4750	[5850, 205]	7154	[7654, 1708]	9558	[4871, 5323]
2347	[1833, 467]	4751	[2035, 5851]	7155	[6363, 6341]	9559	[6482, 1256]
2348	[603, 42]	4752	[3744, 3493]	7156	[7655, 32]	9560	[9588, 8659]
2349	[3559, 582]	4753	[2158, 1849]	7157	[7656, 7657]	9561	[6843, 2576]
2350	[3560, 3561]	4754	[5852, 1810]	7158	[4349, 3992]	9562	[9589, 5060]
2351	[3562, 3563]	4755	[212, 3460]	7159	[7658, 511]	9563	[5015, 2715]
2352	[3564, 587]	4756	[3876, 3847]	7160	[7659, 3724]	9564	[6889, 1313]
2353	[3565, 3566]	4757	[5853, 4452]	7161	[3792, 7660]	9565	[5224, 2311]
2354	[2058, 653]	4758	[5854, 2120]	7162	[7661, 802]	9566	[5546, 1280]
2355	[3567, 1862]	4759	[5855, 3591]	7163	[7662, 6363]	9567	[5172, 5072]
2356	[3568, 3569]	4760	[5856, 3725]	7164	[7663, 3435]	9568	[5176, 3169]
2357	[688, 3570]	4761	[5857, 4436]	7165	[163, 3668]	9569	[6717, 3212]
2358	[3571, 3572]	4762	[1619, 3639]	7166	[7664, 4398]	9570	[5507, 1070]
2359	[3573, 1768]	4763	[5858, 3572]	7167	[6125, 4442]	9571	[5370, 1154]
2360	[3574, 518]	4764	[1651, 3649]	7168	[7665, 7666]	9572	[9590, 5255]
2361	[1722, 3575]	4765	[1452, 5859]	7169	[4073, 608]	9573	[5497, 9228]
2362	[3576, 456]	4766	[5860, 653]	7170	[7667, 497]	9574	[6559, 908]
2363	[3550, 3577]	4767	[522, 3708]	7171	[7668, 7275]	9575	[5533, 3144]
2364	[1483, 2093]	4768	[5694, 5807]	7172	[7669, 4330]	9576	[9591, 6679]
2365	[1754, 697]	4769	[4238, 3861]	7173	[5736, 4377]	9577	[5598, 9263]
2366	[3578, 201]	4770	[1577, 1969]	7174	[7670, 4140]	9578	[5625, 9196]
2367	[131, 1640]	4771	[146, 2166]	7175	[4382, 1843]	9579	[5637, 5539]
2368	[1597, 554]	4772	[5861, 3735]	7176	[7671, 6074]	9580	[5650, 7986]
2369	[3579, 1822]	4773	[624, 2214]	7177	[7672, 134]	9581	[9592, 5238]
2370	[3580, 3581]	4774	[1912, 1646]	7178	[7673, 4452]	9582	[9593, 5847]
2371	[3582, 1802]	4775	[5862, 5863]	7179	[7674, 4448]	9583	[9594, 3843]
2372	[2197, 672]	4776	[5864, 504]	7180	[3552, 1729]	9584	[9595, 5800]
2373	[3583, 3555]	4777	[5865, 757]	7181	[7675, 3740]	9585	[9596, 202]
2374	[3584, 3585]	4778	[5866, 5867]	7182	[7676, 7677]	9586	[9597, 3705]
2375	[3586, 1881]	4779	[5868, 2099]	7183	[169, 1689]	9587	[9598, 8177]
2376	[1757, 3587]	4780	[5869, 4425]	7184	[7678, 497]	9588	[9599, 704]
2377	[3588, 3589]	4781	[5870, 4074]	7185	[7679, 5951]	9589	[9600, 450]
2378	[3590, 3591]	4782	[5871, 1697]	7186	[7680, 6200]	9590	[9601, 7201]

2379	[2017, 3520]	4783	[4008, 1546]	7187	[6418, 216]	9591	[9602, 204]
2380	[3592, 3593]	4784	[2231, 5786]	7188	[7681, 4342]	9592	[9603, 4425]
2381	[3594, 3595]	4785	[3710, 153]	7189	[5897, 4149]	9593	[6488, 3160]
2382	[3596, 624]	4786	[1443, 1655]	7190	[3622, 3662]	9594	[6579, 5035]
2383	[3597, 2031]	4787	[5872, 1570]	7191	[7682, 2711]	9595	[9604, 4706]
2384	[3598, 3599]	4788	[5873, 1460]	7192	[5303, 7683]	9596	[9605, 8464]
2385	[3600, 3601]	4789	[1474, 1790]	7193	[7684, 4879]	9597	[6664, 2711]
2386	[3602, 1736]	4790	[1574, 3467]	7194	[7685, 384]	9598	[8453, 236]
2387	[3603, 3604]	4791	[5874, 2101]	7195	[7686, 3427]	9599	[9606, 5313]
2388	[508, 741]	4792	[5875, 561]	7196	[7687, 4518]	9600	[6782, 5516]
2389	[3605, 496]	4793	[5777, 4052]	7197	[6604, 7013]	9601	[7045, 5090]
2390	[3606, 3607]	4794	[5876, 3829]	7198	[3399, 7688]	9602	[7110, 7169]
2391	[707, 2191]	4795	[4179, 1935]	7199	[1013, 3280]	9603	[7188, 7158]
2392	[2219, 1801]	4796	[2194, 3599]	7200	[7689, 3364]	9604	[9607, 793]
2393	[647, 1896]	4797	[5877, 3572]	7201	[1309, 7690]	9605	[9608, 795]
2394	[3608, 525]	4798	[1492, 1874]	7202	[7691, 7692]	9606	[9609, 3501]
2395	[3609, 158]	4799	[4370, 522]	7203	[7693, 7694]	9607	[9610, 8094]
2396	[3610, 1791]	4800	[536, 1949]	7204	[3181, 1356]	9608	[7777, 8459]
2397	[669, 3611]	4801	[5878, 1519]	7205	[2683, 2698]	9609	[7849, 8967]
2398	[3612, 592]	4802	[2108, 3959]	7206	[2746, 3143]	9610	[9611, 1754]
2399	[1992, 3613]	4803	[1564, 734]	7207	[7695, 4612]	9611	[8460, 5597]
2400	[3614, 3615]	4804	[690, 1560]	7208	[7696, 3083]		
2401	[3616, 2175]	4805	[5879, 4189]	7209	[7697, 2488]		
2402	[3617, 3618]	4806	[1599, 446]	7210	[6814, 3075]		
2403	[3619, 1489]	4807	[5880, 1705]	7211	[7698, 2306]		

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	1603	0	3206	0	4809	0	6412	1	8015	0
1	0	1604	0	3207	1	4810	1	6413	0	8016	1
2	0	1605	1	3208	0	4811	0	6414	1	8017	0
3	0	1606	1	3209	0	4812	0	6415	1	8018	1
4	1	1607	0	3210	0	4813	0	6416	0	8019	1
5	0	1608	0	3211	1	4814	0	6417	1	8020	0
6	0	1609	0	3212	0	4815	0	6418	1	8021	0
7	0	1610	0	3213	1	4816	1	6419	0	8022	0
8	1	1611	0	3214	0	4817	0	6420	0	8023	0
9	1	1612	0	3215	1	4818	1	6421	0	8024	0
10	0	1613	1	3216	0	4819	0	6422	0	8025	0
11	0	1614	1	3217	1	4820	1	6423	1	8026	0
12	0	1615	1	3218	0	4821	0	6424	0	8027	0
13	0	1616	1	3219	0	4822	1	6425	1	8028	1
14	0	1617	0	3220	0	4823	1	6426	1	8029	1
15	0	1618	0	3221	0	4824	1	6427	0	8030	1

16	0	1619	0	3222	0	4825	0	6428	1	8031	1
17	1	1620	1	3223	0	4826	0	6429	1	8032	1
18	0	1621	1	3224	0	4827	1	6430	1	8033	0
19	1	1622	1	3225	0	4828	0	6431	0	8034	1
20	1	1623	0	3226	0	4829	0	6432	0	8035	1
21	0	1624	1	3227	0	4830	0	6433	0	8036	0
22	0	1625	0	3228	1	4831	1	6434	0	8037	0
23	0	1626	0	3229	0	4832	0	6435	0	8038	0
24	0	1627	1	3230	1	4833	0	6436	0	8039	0
25	0	1628	1	3231	0	4834	1	6437	1	8040	0
26	0	1629	1	3232	0	4835	1	6438	0	8041	1
27	0	1630	0	3233	0	4836	0	6439	1	8042	0
28	0	1631	0	3234	1	4837	0	6440	1	8043	0
29	0	1632	0	3235	0	4838	1	6441	0	8044	0
30	0	1633	0	3236	0	4839	0	6442	1	8045	0
31	0	1634	1	3237	1	4840	0	6443	0	8046	1
32	0	1635	1	3238	0	4841	1	6444	1	8047	1
33	0	1636	1	3239	0	4842	0	6445	1	8048	1
34	1	1637	1	3240	0	4843	0	6446	0	8049	1
35	1	1638	1	3241	0	4844	1	6447	0	8050	1
36	1	1639	0	3242	1	4845	0	6448	0	8051	0
37	0	1640	1	3243	0	4846	1	6449	1	8052	1
38	0	1641	1	3244	0	4847	1	6450	1	8053	0
39	1	1642	1	3245	0	4848	1	6451	0	8054	1
40	1	1643	0	3246	1	4849	0	6452	1	8055	0
41	1	1644	1	3247	0	4850	0	6453	0	8056	0
42	0	1645	1	3248	0	4851	0	6454	1	8057	1
43	1	1646	0	3249	0	4852	1	6455	0	8058	1
44	0	1647	0	3250	0	4853	1	6456	0	8059	0
45	0	1648	0	3251	0	4854	1	6457	0	8060	1
46	0	1649	0	3252	1	4855	1	6458	0	8061	1
47	0	1650	0	3253	1	4856	0	6459	0	8062	0
48	0	1651	0	3254	1	4857	1	6460	1	8063	0
49	0	1652	1	3255	0	4858	1	6461	1	8064	0
50	0	1653	0	3256	1	4859	0	6462	0	8065	0
51	0	1654	0	3257	0	4860	1	6463	0	8066	1
52	0	1655	1	3258	1	4861	0	6464	0	8067	1
53	0	1656	1	3259	0	4862	0	6465	0	8068	0
54	0	1657	0	3260	1	4863	1	6466	1	8069	0
55	1	1658	1	3261	0	4864	1	6467	1	8070	1
56	0	1659	1	3262	1	4865	1	6468	0	8071	0
57	1	1660	0	3263	1	4866	0	6469	1	8072	1
58	0	1661	0	3264	0	4867	1	6470	1	8073	1
59	1	1662	1	3265	1	4868	0	6471	1	8074	0

60	0	1663	0	3266	0	4869	0	6472	1	8075	0
61	1	1664	1	3267	0	4870	0	6473	1	8076	1
62	0	1665	1	3268	1	4871	1	6474	1	8077	1
63	1	1666	1	3269	0	4872	0	6475	1	8078	1
64	0	1667	0	3270	0	4873	0	6476	0	8079	1
65	0	1668	1	3271	0	4874	1	6477	0	8080	1
66	0	1669	0	3272	0	4875	0	6478	0	8081	0
67	1	1670	0	3273	0	4876	1	6479	0	8082	0
68	1	1671	0	3274	0	4877	1	6480	1	8083	0
69	0	1672	1	3275	1	4878	1	6481	1	8084	0
70	1	1673	0	3276	0	4879	0	6482	1	8085	1
71	1	1674	0	3277	0	4880	1	6483	0	8086	1
72	1	1675	1	3278	1	4881	1	6484	1	8087	1
73	0	1676	0	3279	0	4882	0	6485	0	8088	0
74	0	1677	0	3280	1	4883	1	6486	0	8089	1
75	0	1678	1	3281	0	4884	0	6487	1	8090	0
76	0	1679	1	3282	1	4885	1	6488	1	8091	0
77	0	1680	1	3283	0	4886	0	6489	1	8092	0
78	1	1681	1	3284	1	4887	1	6490	1	8093	1
79	1	1682	0	3285	1	4888	1	6491	1	8094	1
80	1	1683	1	3286	1	4889	1	6492	0	8095	1
81	0	1684	1	3287	1	4890	1	6493	0	8096	1
82	1	1685	1	3288	1	4891	1	6494	0	8097	1
83	0	1686	1	3289	0	4892	1	6495	0	8098	1
84	0	1687	1	3290	0	4893	1	6496	1	8099	0
85	1	1688	0	3291	0	4894	1	6497	0	8100	1
86	1	1689	0	3292	0	4895	0	6498	1	8101	1
87	0	1690	0	3293	0	4896	0	6499	1	8102	0
88	0	1691	1	3294	0	4897	0	6500	0	8103	0
89	0	1692	0	3295	0	4898	0	6501	1	8104	0
90	0	1693	0	3296	1	4899	1	6502	1	8105	1
91	0	1694	0	3297	1	4900	1	6503	0	8106	1
92	0	1695	0	3298	0	4901	0	6504	1	8107	1
93	0	1696	0	3299	0	4902	0	6505	0	8108	1
94	0	1697	1	3300	1	4903	0	6506	0	8109	1
95	0	1698	1	3301	1	4904	1	6507	0	8110	1
96	0	1699	0	3302	1	4905	0	6508	1	8111	0
97	0	1700	1	3303	0	4906	0	6509	1	8112	0
98	0	1701	0	3304	1	4907	0	6510	1	8113	1
99	0	1702	0	3305	1	4908	1	6511	0	8114	0
100	0	1703	0	3306	1	4909	1	6512	1	8115	1
101	0	1704	1	3307	1	4910	0	6513	1	8116	1
102	0	1705	1	3308	0	4911	0	6514	1	8117	1
103	0	1706	1	3309	0	4912	0	6515	1	8118	0

104	0	1707	0	3310	1	4913	0	6516	0	8119	0
105	0	1708	0	3311	1	4914	1	6517	0	8120	0
106	1	1709	0	3312	0	4915	0	6518	0	8121	1
107	1	1710	0	3313	1	4916	0	6519	0	8122	1
108	1	1711	0	3314	1	4917	0	6520	1	8123	0
109	0	1712	0	3315	0	4918	0	6521	1	8124	1
110	0	1713	0	3316	1	4919	1	6522	1	8125	1
111	1	1714	0	3317	0	4920	1	6523	1	8126	1
112	1	1715	0	3318	1	4921	1	6524	0	8127	0
113	0	1716	1	3319	0	4922	0	6525	1	8128	1
114	0	1717	1	3320	1	4923	1	6526	0	8129	1
115	0	1718	0	3321	1	4924	1	6527	0	8130	0
116	1	1719	1	3322	0	4925	0	6528	1	8131	0
117	0	1720	1	3323	1	4926	0	6529	0	8132	0
118	0	1721	1	3324	0	4927	0	6530	0	8133	1
119	0	1722	0	3325	0	4928	0	6531	0	8134	1
120	1	1723	1	3326	1	4929	0	6532	1	8135	0
121	1	1724	0	3327	0	4930	1	6533	0	8136	0
122	0	1725	0	3328	0	4931	1	6534	0	8137	1
123	0	1726	0	3329	1	4932	0	6535	0	8138	0
124	1	1727	0	3330	0	4933	1	6536	1	8139	0
125	0	1728	0	3331	0	4934	1	6537	0	8140	0
126	0	1729	1	3332	0	4935	0	6538	0	8141	0
127	1	1730	1	3333	1	4936	0	6539	1	8142	1
128	0	1731	0	3334	1	4937	0	6540	0	8143	0
129	0	1732	1	3335	0	4938	1	6541	0	8144	1
130	0	1733	0	3336	1	4939	1	6542	1	8145	1
131	0	1734	1	3337	1	4940	0	6543	1	8146	1
132	1	1735	1	3338	1	4941	0	6544	1	8147	0
133	0	1736	0	3339	0	4942	0	6545	1	8148	1
134	1	1737	0	3340	0	4943	0	6546	0	8149	1
135	0	1738	0	3341	0	4944	0	6547	1	8150	0
136	0	1739	0	3342	0	4945	0	6548	1	8151	1
137	1	1740	1	3343	0	4946	0	6549	1	8152	0
138	1	1741	0	3344	1	4947	0	6550	0	8153	1
139	1	1742	1	3345	1	4948	1	6551	0	8154	0
140	1	1743	1	3346	0	4949	1	6552	1	8155	1
141	1	1744	0	3347	0	4950	1	6553	0	8156	0
142	0	1745	1	3348	0	4951	1	6554	0	8157	1
143	0	1746	0	3349	1	4952	1	6555	1	8158	0
144	0	1747	1	3350	1	4953	0	6556	0	8159	1
145	0	1748	1	3351	0	4954	0	6557	0	8160	1
146	0	1749	1	3352	0	4955	0	6558	1	8161	1
147	1	1750	1	3353	0	4956	0	6559	0	8162	1

148	0	1751	1	3354	1	4957	1	6560	1	8163	1
149	0	1752	1	3355	0	4958	1	6561	0	8164	1
150	0	1753	0	3356	0	4959	1	6562	0	8165	0
151	1	1754	0	3357	1	4960	1	6563	1	8166	1
152	1	1755	0	3358	1	4961	0	6564	0	8167	0
153	0	1756	0	3359	0	4962	0	6565	1	8168	1
154	1	1757	1	3360	0	4963	1	6566	1	8169	0
155	1	1758	1	3361	0	4964	1	6567	0	8170	0
156	1	1759	1	3362	0	4965	1	6568	0	8171	1
157	1	1760	1	3363	1	4966	1	6569	1	8172	0
158	0	1761	0	3364	0	4967	1	6570	0	8173	1
159	0	1762	1	3365	0	4968	1	6571	1	8174	1
160	1	1763	0	3366	0	4969	1	6572	1	8175	0
161	0	1764	0	3367	0	4970	1	6573	1	8176	0
162	0	1765	0	3368	0	4971	1	6574	0	8177	1
163	0	1766	1	3369	0	4972	0	6575	1	8178	0
164	0	1767	0	3370	1	4973	1	6576	1	8179	1
165	1	1768	1	3371	1	4974	0	6577	1	8180	1
166	0	1769	0	3372	1	4975	1	6578	1	8181	0
167	1	1770	1	3373	1	4976	0	6579	1	8182	1
168	0	1771	1	3374	0	4977	1	6580	0	8183	1
169	0	1772	0	3375	1	4978	0	6581	1	8184	0
170	0	1773	1	3376	0	4979	1	6582	1	8185	1
171	0	1774	1	3377	1	4980	1	6583	1	8186	1
172	0	1775	0	3378	1	4981	0	6584	0	8187	0
173	1	1776	0	3379	1	4982	1	6585	1	8188	1
174	0	1777	0	3380	0	4983	0	6586	0	8189	0
175	1	1778	1	3381	0	4984	1	6587	0	8190	1
176	0	1779	0	3382	0	4985	0	6588	0	8191	0
177	0	1780	1	3383	0	4986	0	6589	1	8192	0
178	0	1781	1	3384	0	4987	1	6590	1	8193	0
179	0	1782	0	3385	1	4988	0	6591	0	8194	0
180	0	1783	1	3386	0	4989	0	6592	0	8195	1
181	0	1784	0	3387	1	4990	0	6593	1	8196	1
182	0	1785	1	3388	1	4991	1	6594	0	8197	1
183	0	1786	1	3389	0	4992	0	6595	0	8198	0
184	0	1787	0	3390	0	4993	1	6596	0	8199	1
185	0	1788	1	3391	0	4994	1	6597	0	8200	1
186	0	1789	1	3392	0	4995	0	6598	0	8201	0
187	0	1790	1	3393	0	4996	0	6599	1	8202	1
188	1	1791	1	3394	1	4997	0	6600	1	8203	0
189	0	1792	0	3395	1	4998	1	6601	0	8204	0
190	1	1793	0	3396	1	4999	0	6602	0	8205	0
191	0	1794	0	3397	0	5000	1	6603	1	8206	0

192	1	1795	0	3398	1	5001	1	6604	1	8207	1
193	0	1796	0	3399	0	5002	0	6605	1	8208	0
194	1	1797	1	3400	0	5003	0	6606	0	8209	0
195	0	1798	0	3401	0	5004	0	6607	0	8210	1
196	0	1799	1	3402	1	5005	1	6608	1	8211	0
197	1	1800	0	3403	1	5006	0	6609	0	8212	0
198	0	1801	1	3404	1	5007	0	6610	0	8213	0
199	1	1802	1	3405	1	5008	1	6611	0	8214	1
200	0	1803	0	3406	1	5009	0	6612	1	8215	0
201	1	1804	0	3407	1	5010	1	6613	1	8216	0
202	0	1805	1	3408	0	5011	1	6614	1	8217	0
203	0	1806	1	3409	1	5012	1	6615	0	8218	1
204	1	1807	0	3410	1	5013	1	6616	1	8219	0
205	0	1808	0	3411	1	5014	0	6617	1	8220	0
206	1	1809	1	3412	0	5015	1	6618	1	8221	1
207	0	1810	0	3413	0	5016	0	6619	1	8222	1
208	1	1811	0	3414	0	5017	1	6620	1	8223	1
209	1	1812	0	3415	1	5018	0	6621	0	8224	1
210	0	1813	1	3416	1	5019	0	6622	1	8225	1
211	1	1814	1	3417	0	5020	0	6623	1	8226	0
212	1	1815	0	3418	0	5021	0	6624	1	8227	0
213	1	1816	0	3419	0	5022	0	6625	1	8228	0
214	1	1817	1	3420	0	5023	1	6626	1	8229	0
215	0	1818	0	3421	0	5024	1	6627	1	8230	1
216	1	1819	0	3422	1	5025	0	6628	1	8231	1
217	0	1820	1	3423	1	5026	1	6629	1	8232	1
218	0	1821	0	3424	0	5027	0	6630	1	8233	0
219	0	1822	0	3425	0	5028	0	6631	1	8234	0
220	0	1823	0	3426	0	5029	0	6632	0	8235	1
221	1	1824	0	3427	0	5030	1	6633	1	8236	0
222	0	1825	1	3428	1	5031	0	6634	1	8237	0
223	0	1826	1	3429	0	5032	1	6635	1	8238	1
224	0	1827	0	3430	1	5033	0	6636	1	8239	1
225	0	1828	0	3431	0	5034	0	6637	0	8240	1
226	0	1829	1	3432	0	5035	1	6638	0	8241	1
227	0	1830	1	3433	0	5036	1	6639	0	8242	1
228	1	1831	0	3434	1	5037	1	6640	1	8243	1
229	0	1832	1	3435	0	5038	0	6641	1	8244	1
230	1	1833	1	3436	0	5039	1	6642	0	8245	0
231	0	1834	1	3437	0	5040	1	6643	1	8246	1
232	0	1835	0	3438	1	5041	1	6644	0	8247	1
233	1	1836	0	3439	0	5042	1	6645	1	8248	0
234	0	1837	1	3440	0	5043	0	6646	0	8249	1
235	0	1838	1	3441	0	5044	1	6647	0	8250	1

236	1	1839	1	3442	1	5045	0	6648	1	8251	0
237	1	1840	1	3443	1	5046	0	6649	0	8252	1
238	0	1841	0	3444	0	5047	1	6650	0	8253	0
239	0	1842	1	3445	0	5048	0	6651	1	8254	1
240	0	1843	1	3446	0	5049	0	6652	0	8255	1
241	0	1844	1	3447	1	5050	0	6653	0	8256	1
242	1	1845	0	3448	1	5051	0	6654	0	8257	1
243	0	1846	1	3449	0	5052	1	6655	1	8258	1
244	0	1847	0	3450	1	5053	1	6656	1	8259	0
245	0	1848	0	3451	1	5054	1	6657	1	8260	0
246	0	1849	1	3452	1	5055	0	6658	1	8261	0
247	0	1850	0	3453	1	5056	1	6659	0	8262	0
248	0	1851	1	3454	1	5057	1	6660	0	8263	1
249	0	1852	0	3455	1	5058	0	6661	0	8264	0
250	0	1853	1	3456	0	5059	1	6662	1	8265	0
251	0	1854	1	3457	1	5060	0	6663	1	8266	0
252	1	1855	0	3458	0	5061	1	6664	1	8267	1
253	0	1856	1	3459	1	5062	0	6665	0	8268	1
254	0	1857	0	3460	0	5063	1	6666	0	8269	1
255	0	1858	0	3461	1	5064	1	6667	1	8270	1
256	1	1859	0	3462	0	5065	0	6668	0	8271	0
257	0	1860	1	3463	1	5066	0	6669	0	8272	0
258	0	1861	0	3464	1	5067	1	6670	0	8273	1
259	0	1862	0	3465	0	5068	1	6671	0	8274	1
260	0	1863	1	3466	0	5069	0	6672	0	8275	0
261	1	1864	0	3467	0	5070	0	6673	0	8276	1
262	1	1865	1	3468	1	5071	1	6674	1	8277	0
263	1	1866	1	3469	1	5072	1	6675	0	8278	1
264	1	1867	0	3470	0	5073	0	6676	1	8279	1
265	0	1868	1	3471	1	5074	1	6677	1	8280	1
266	1	1869	1	3472	0	5075	0	6678	1	8281	0
267	1	1870	0	3473	0	5076	0	6679	1	8282	1
268	1	1871	0	3474	1	5077	0	6680	0	8283	0
269	0	1872	1	3475	1	5078	0	6681	1	8284	0
270	1	1873	1	3476	0	5079	1	6682	0	8285	1
271	1	1874	0	3477	1	5080	0	6683	1	8286	0
272	0	1875	1	3478	0	5081	0	6684	0	8287	0
273	0	1876	1	3479	0	5082	1	6685	1	8288	1
274	0	1877	0	3480	1	5083	1	6686	0	8289	1
275	0	1878	0	3481	1	5084	0	6687	0	8290	1
276	0	1879	1	3482	1	5085	1	6688	1	8291	0
277	0	1880	1	3483	0	5086	1	6689	0	8292	0
278	0	1881	1	3484	0	5087	0	6690	0	8293	1
279	0	1882	0	3485	1	5088	1	6691	0	8294	0

280	1	1883	1	3486	0	5089	0	6692	0	8295	1
281	1	1884	1	3487	1	5090	1	6693	0	8296	1
282	1	1885	1	3488	0	5091	1	6694	1	8297	1
283	0	1886	0	3489	0	5092	1	6695	0	8298	1
284	0	1887	0	3490	1	5093	1	6696	0	8299	0
285	0	1888	1	3491	1	5094	1	6697	0	8300	1
286	0	1889	0	3492	0	5095	0	6698	0	8301	1
287	0	1890	1	3493	0	5096	0	6699	0	8302	0
288	0	1891	1	3494	1	5097	0	6700	0	8303	1
289	1	1892	0	3495	1	5098	1	6701	1	8304	1
290	0	1893	0	3496	0	5099	0	6702	0	8305	1
291	1	1894	1	3497	0	5100	0	6703	1	8306	0
292	1	1895	1	3498	1	5101	1	6704	0	8307	1
293	0	1896	0	3499	1	5102	0	6705	0	8308	1
294	0	1897	0	3500	0	5103	1	6706	1	8309	0
295	1	1898	0	3501	0	5104	1	6707	1	8310	0
296	1	1899	1	3502	0	5105	1	6708	1	8311	0
297	1	1900	0	3503	1	5106	0	6709	1	8312	0
298	0	1901	0	3504	1	5107	0	6710	0	8313	0
299	1	1902	0	3505	0	5108	1	6711	0	8314	1
300	0	1903	0	3506	0	5109	1	6712	1	8315	0
301	1	1904	1	3507	1	5110	1	6713	1	8316	0
302	0	1905	1	3508	1	5111	0	6714	1	8317	0
303	0	1906	0	3509	1	5112	0	6715	1	8318	0
304	0	1907	1	3510	0	5113	1	6716	1	8319	0
305	0	1908	1	3511	1	5114	0	6717	1	8320	0
306	0	1909	0	3512	0	5115	1	6718	1	8321	1
307	1	1910	0	3513	1	5116	0	6719	0	8322	1
308	0	1911	1	3514	1	5117	0	6720	0	8323	0
309	0	1912	0	3515	0	5118	1	6721	0	8324	1
310	0	1913	0	3516	0	5119	0	6722	0	8325	0
311	0	1914	0	3517	1	5120	1	6723	1	8326	0
312	0	1915	0	3518	1	5121	1	6724	0	8327	1
313	0	1916	1	3519	0	5122	0	6725	1	8328	0
314	1	1917	1	3520	1	5123	0	6726	0	8329	1
315	0	1918	1	3521	0	5124	1	6727	0	8330	0
316	1	1919	1	3522	0	5125	1	6728	0	8331	0
317	1	1920	1	3523	0	5126	1	6729	1	8332	1
318	0	1921	1	3524	1	5127	1	6730	1	8333	0
319	0	1922	0	3525	1	5128	1	6731	1	8334	1
320	0	1923	0	3526	1	5129	1	6732	0	8335	1
321	1	1924	1	3527	0	5130	0	6733	0	8336	0
322	0	1925	1	3528	0	5131	0	6734	1	8337	1
323	0	1926	0	3529	0	5132	0	6735	0	8338	1

324	0	1927	1	3530	0	5133	0	6736	0	8339	1
325	1	1928	1	3531	1	5134	1	6737	0	8340	0
326	0	1929	1	3532	0	5135	0	6738	0	8341	0
327	0	1930	1	3533	1	5136	1	6739	1	8342	1
328	0	1931	0	3534	0	5137	0	6740	0	8343	0
329	0	1932	1	3535	0	5138	0	6741	1	8344	1
330	0	1933	1	3536	0	5139	1	6742	1	8345	1
331	0	1934	0	3537	0	5140	0	6743	1	8346	0
332	1	1935	0	3538	0	5141	1	6744	0	8347	0
333	1	1936	1	3539	0	5142	1	6745	1	8348	0
334	0	1937	0	3540	1	5143	1	6746	0	8349	0
335	1	1938	1	3541	1	5144	0	6747	1	8350	0
336	1	1939	0	3542	0	5145	1	6748	0	8351	0
337	0	1940	0	3543	1	5146	0	6749	1	8352	0
338	0	1941	0	3544	0	5147	0	6750	0	8353	0
339	0	1942	0	3545	0	5148	0	6751	1	8354	1
340	0	1943	1	3546	0	5149	1	6752	0	8355	1
341	1	1944	1	3547	1	5150	1	6753	0	8356	0
342	0	1945	1	3548	1	5151	0	6754	0	8357	1
343	0	1946	0	3549	1	5152	0	6755	0	8358	1
344	0	1947	1	3550	0	5153	0	6756	1	8359	0
345	0	1948	1	3551	1	5154	1	6757	1	8360	0
346	0	1949	1	3552	1	5155	0	6758	1	8361	0
347	0	1950	0	3553	0	5156	1	6759	1	8362	0
348	0	1951	1	3554	0	5157	0	6760	0	8363	0
349	0	1952	0	3555	1	5158	0	6761	1	8364	1
350	0	1953	1	3556	1	5159	1	6762	1	8365	0
351	0	1954	1	3557	0	5160	0	6763	1	8366	0
352	0	1955	0	3558	1	5161	0	6764	1	8367	0
353	0	1956	0	3559	0	5162	0	6765	1	8368	0
354	0	1957	0	3560	1	5163	0	6766	1	8369	1
355	0	1958	0	3561	0	5164	1	6767	1	8370	1
356	1	1959	1	3562	1	5165	1	6768	1	8371	1
357	0	1960	0	3563	0	5166	1	6769	0	8372	1
358	0	1961	1	3564	1	5167	1	6770	0	8373	1
359	0	1962	0	3565	0	5168	0	6771	1	8374	1
360	1	1963	1	3566	0	5169	0	6772	1	8375	0
361	1	1964	0	3567	0	5170	1	6773	1	8376	1
362	0	1965	1	3568	0	5171	0	6774	1	8377	0
363	0	1966	1	3569	1	5172	1	6775	1	8378	1
364	0	1967	1	3570	1	5173	1	6776	0	8379	1
365	1	1968	0	3571	0	5174	0	6777	1	8380	0
366	0	1969	1	3572	0	5175	1	6778	1	8381	0
367	0	1970	0	3573	0	5176	0	6779	0	8382	0

368	1	1971	0	3574	0	5177	0	6780	1	8383	0
369	1	1972	1	3575	0	5178	1	6781	1	8384	0
370	0	1973	0	3576	1	5179	1	6782	1	8385	1
371	0	1974	1	3577	0	5180	1	6783	0	8386	1
372	1	1975	0	3578	0	5181	1	6784	1	8387	0
373	1	1976	0	3579	0	5182	0	6785	1	8388	0
374	1	1977	0	3580	1	5183	1	6786	0	8389	1
375	0	1978	0	3581	0	5184	1	6787	1	8390	1
376	0	1979	1	3582	0	5185	0	6788	1	8391	1
377	0	1980	0	3583	1	5186	0	6789	1	8392	1
378	0	1981	1	3584	0	5187	0	6790	0	8393	0
379	1	1982	1	3585	0	5188	0	6791	1	8394	0
380	1	1983	0	3586	1	5189	0	6792	0	8395	0
381	0	1984	1	3587	0	5190	0	6793	0	8396	0
382	0	1985	0	3588	1	5191	0	6794	1	8397	1
383	1	1986	1	3589	0	5192	1	6795	1	8398	1
384	0	1987	1	3590	0	5193	0	6796	0	8399	1
385	0	1988	1	3591	0	5194	0	6797	0	8400	0
386	1	1989	0	3592	1	5195	1	6798	1	8401	0
387	0	1990	0	3593	1	5196	0	6799	0	8402	0
388	0	1991	0	3594	0	5197	0	6800	0	8403	1
389	0	1992	0	3595	1	5198	0	6801	0	8404	1
390	0	1993	0	3596	0	5199	0	6802	0	8405	1
391	0	1994	0	3597	0	5200	0	6803	0	8406	0
392	1	1995	1	3598	1	5201	1	6804	0	8407	1
393	0	1996	0	3599	0	5202	1	6805	1	8408	1
394	0	1997	0	3600	0	5203	0	6806	1	8409	0
395	0	1998	0	3601	1	5204	1	6807	1	8410	0
396	1	1999	0	3602	0	5205	1	6808	1	8411	0
397	1	2000	0	3603	0	5206	1	6809	1	8412	0
398	0	2001	1	3604	0	5207	0	6810	1	8413	1
399	0	2002	1	3605	0	5208	0	6811	1	8414	1
400	1	2003	1	3606	0	5209	0	6812	1	8415	0
401	1	2004	0	3607	0	5210	1	6813	0	8416	1
402	1	2005	0	3608	0	5211	1	6814	1	8417	1
403	0	2006	0	3609	0	5212	0	6815	1	8418	1
404	1	2007	1	3610	1	5213	1	6816	1	8419	0
405	1	2008	0	3611	1	5214	1	6817	0	8420	0
406	1	2009	0	3612	1	5215	1	6818	0	8421	1
407	1	2010	1	3613	0	5216	1	6819	0	8422	1
408	1	2011	1	3614	0	5217	1	6820	0	8423	0
409	0	2012	1	3615	1	5218	1	6821	1	8424	0
410	0	2013	1	3616	0	5219	0	6822	0	8425	0
411	0	2014	1	3617	1	5220	1	6823	1	8426	0

412	1	2015	0	3618	0	5221	1	6824	1	8427	1
413	1	2016	0	3619	1	5222	1	6825	1	8428	1
414	0	2017	1	3620	1	5223	0	6826	1	8429	1
415	1	2018	0	3621	1	5224	0	6827	0	8430	1
416	0	2019	1	3622	0	5225	1	6828	0	8431	1
417	0	2020	0	3623	0	5226	1	6829	1	8432	1
418	0	2021	0	3624	0	5227	1	6830	1	8433	1
419	1	2022	0	3625	0	5228	0	6831	0	8434	1
420	1	2023	0	3626	0	5229	0	6832	1	8435	0
421	1	2024	1	3627	1	5230	1	6833	0	8436	0
422	0	2025	0	3628	0	5231	0	6834	0	8437	1
423	0	2026	1	3629	1	5232	0	6835	1	8438	1
424	0	2027	0	3630	1	5233	0	6836	1	8439	0
425	0	2028	0	3631	0	5234	1	6837	1	8440	1
426	1	2029	0	3632	0	5235	0	6838	1	8441	1
427	0	2030	1	3633	1	5236	1	6839	1	8442	1
428	0	2031	1	3634	0	5237	1	6840	1	8443	1
429	0	2032	0	3635	0	5238	0	6841	1	8444	1
430	0	2033	0	3636	1	5239	0	6842	1	8445	0
431	0	2034	1	3637	1	5240	1	6843	1	8446	0
432	0	2035	0	3638	0	5241	1	6844	0	8447	0
433	0	2036	0	3639	1	5242	1	6845	1	8448	0
434	1	2037	0	3640	0	5243	0	6846	1	8449	1
435	1	2038	1	3641	1	5244	1	6847	0	8450	0
436	1	2039	1	3642	1	5245	0	6848	0	8451	1
437	0	2040	1	3643	1	5246	1	6849	1	8452	1
438	0	2041	1	3644	0	5247	1	6850	1	8453	1
439	1	2042	0	3645	0	5248	1	6851	1	8454	1
440	0	2043	0	3646	1	5249	1	6852	1	8455	1
441	0	2044	1	3647	1	5250	1	6853	1	8456	0
442	1	2045	0	3648	1	5251	1	6854	0	8457	1
443	0	2046	0	3649	0	5252	1	6855	1	8458	0
444	0	2047	1	3650	1	5253	0	6856	0	8459	1
445	1	2048	0	3651	0	5254	1	6857	1	8460	1
446	0	2049	0	3652	0	5255	1	6858	0	8461	0
447	0	2050	1	3653	1	5256	0	6859	1	8462	1
448	0	2051	0	3654	1	5257	1	6860	0	8463	0
449	1	2052	0	3655	1	5258	0	6861	0	8464	1
450	1	2053	1	3656	0	5259	1	6862	0	8465	1
451	1	2054	1	3657	1	5260	1	6863	1	8466	1
452	1	2055	1	3658	1	5261	1	6864	1	8467	0
453	1	2056	1	3659	0	5262	1	6865	0	8468	0
454	0	2057	1	3660	1	5263	0	6866	0	8469	0
455	1	2058	0	3661	0	5264	1	6867	0	8470	1

456	0	2059	1	3662	1	5265	0	6868	0	8471	1
457	1	2060	0	3663	1	5266	1	6869	1	8472	1
458	0	2061	0	3664	0	5267	0	6870	0	8473	0
459	0	2062	1	3665	0	5268	0	6871	0	8474	1
460	0	2063	0	3666	0	5269	0	6872	1	8475	0
461	1	2064	0	3667	0	5270	0	6873	0	8476	1
462	1	2065	1	3668	0	5271	0	6874	1	8477	1
463	0	2066	1	3669	1	5272	1	6875	1	8478	0
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465	1	2068	1	3671	0	5274	0	6877	0	8480	0
466	0	2069	0	3672	0	5275	1	6878	0	8481	1
467	0	2070	0	3673	1	5276	1	6879	0	8482	0
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470	0	2073	0	3676	1	5279	0	6882	1	8485	1
471	0	2074	1	3677	0	5280	0	6883	0	8486	1
472	0	2075	0	3678	0	5281	1	6884	0	8487	1
473	1	2076	1	3679	1	5282	0	6885	0	8488	0
474	0	2077	1	3680	0	5283	0	6886	0	8489	0
475	1	2078	0	3681	1	5284	1	6887	1	8490	1
476	0	2079	0	3682	1	5285	1	6888	0	8491	1
477	0	2080	0	3683	1	5286	1	6889	1	8492	0
478	0	2081	0	3684	0	5287	1	6890	1	8493	0
479	0	2082	0	3685	0	5288	1	6891	0	8494	0
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481	0	2084	0	3687	0	5290	1	6893	0	8496	0
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487	0	2090	1	3693	0	5296	1	6899	1	8502	1
488	1	2091	0	3694	1	5297	1	6900	0	8503	1
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496	1	2099	1	3702	0	5305	0	6908	0	8511	1
497	1	2100	0	3703	1	5306	0	6909	1	8512	1
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508	1	2111	1	3714	0	5317	0	6920	1	8523	1
509	1	2112	0	3715	1	5318	0	6921	0	8524	0
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511	0	2114	0	3717	1	5320	1	6923	1	8526	0
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513	1	2116	0	3719	0	5322	0	6925	0	8528	1
514	0	2117	1	3720	0	5323	1	6926	1	8529	1
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523	0	2126	0	3729	0	5332	1	6935	1	8538	1
524	1	2127	1	3730	0	5333	1	6936	1	8539	0
525	0	2128	1	3731	0	5334	1	6937	0	8540	0
526	0	2129	1	3732	0	5335	1	6938	1	8541	0
527	1	2130	1	3733	0	5336	0	6939	1	8542	1
528	0	2131	0	3734	1	5337	1	6940	0	8543	1
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531	1	2134	0	3737	1	5340	0	6943	0	8546	0
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534	1	2137	1	3740	0	5343	1	6946	0	8549	1
535	1	2138	1	3741	1	5344	0	6947	1	8550	0
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538	0	2141	1	3744	0	5347	1	6950	0	8553	1
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546	0	2149	1	3752	0	5355	1	6958	0	8561	0
547	0	2150	0	3753	1	5356	0	6959	0	8562	1
548	0	2151	1	3754	0	5357	0	6960	1	8563	1
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552	0	2155	1	3758	1	5361	0	6964	1	8567	0
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556	1	2159	0	3762	1	5365	0	6968	0	8571	1
557	0	2160	1	3763	1	5366	0	6969	1	8572	0
558	0	2161	0	3764	0	5367	0	6970	0	8573	1
559	1	2162	1	3765	1	5368	0	6971	0	8574	0
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561	1	2164	0	3767	1	5370	1	6973	1	8576	1
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563	1	2166	0	3769	0	5372	0	6975	0	8578	1
564	1	2167	0	3770	1	5373	0	6976	1	8579	1
565	0	2168	1	3771	1	5374	1	6977	1	8580	0
566	0	2169	0	3772	0	5375	0	6978	1	8581	1
567	1	2170	1	3773	1	5376	0	6979	1	8582	0
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570	0	2173	0	3776	0	5379	1	6982	0	8585	0
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575	0	2178	0	3781	0	5384	0	6987	0	8590	0
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578	1	2181	0	3784	1	5387	0	6990	0	8593	0
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581	0	2184	0	3787	0	5390	0	6993	0	8596	0
582	0	2185	0	3788	1	5391	0	6994	1	8597	1
583	1	2186	0	3789	1	5392	1	6995	0	8598	0
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586	0	2189	0	3792	0	5395	1	6998	1	8601	1
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598	1	2201	0	3804	1	5407	0	7010	0	8613	0
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637	1	2240	0	3843	0	5446	1	7049	1	8652	0
638	0	2241	0	3844	1	5447	1	7050	1	8653	1
639	1	2242	0	3845	0	5448	1	7051	0	8654	0
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641	1	2244	1	3847	1	5450	1	7053	1	8656	1
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647	0	2250	0	3853	1	5456	1	7059	0	8662	1
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693	1	2296	0	3899	0	5502	1	7105	0	8708	1
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699	0	2302	0	3905	0	5508	0	7111	0	8714	0
700	0	2303	0	3906	1	5509	1	7112	1	8715	1
701	0	2304	1	3907	0	5510	1	7113	0	8716	1
702	1	2305	0	3908	1	5511	0	7114	1	8717	0
703	1	2306	0	3909	0	5512	0	7115	1	8718	1
704	1	2307	0	3910	1	5513	0	7116	0	8719	0
705	1	2308	0	3911	0	5514	1	7117	1	8720	1
706	0	2309	1	3912	0	5515	0	7118	0	8721	0
707	0	2310	0	3913	0	5516	1	7119	1	8722	0
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709	1	2312	1	3915	0	5518	0	7121	1	8724	1
710	1	2313	0	3916	0	5519	1	7122	0	8725	1
711	1	2314	1	3917	1	5520	0	7123	0	8726	1
712	0	2315	0	3918	1	5521	0	7124	0	8727	0
713	0	2316	0	3919	0	5522	0	7125	1	8728	0
714	1	2317	0	3920	1	5523	1	7126	0	8729	1
715	0	2318	1	3921	0	5524	1	7127	1	8730	0
716	0	2319	1	3922	0	5525	1	7128	0	8731	0
717	0	2320	0	3923	0	5526	1	7129	1	8732	1
718	0	2321	0	3924	1	5527	0	7130	1	8733	0
719	0	2322	0	3925	0	5528	0	7131	1	8734	0

720	1	2323	1	3926	0	5529	0	7132	1	8735	1
721	0	2324	0	3927	0	5530	1	7133	0	8736	0
722	0	2325	0	3928	1	5531	1	7134	0	8737	0
723	1	2326	0	3929	1	5532	1	7135	0	8738	1
724	0	2327	0	3930	0	5533	1	7136	1	8739	1
725	0	2328	0	3931	1	5534	1	7137	1	8740	1
726	0	2329	1	3932	0	5535	1	7138	0	8741	1
727	0	2330	0	3933	1	5536	0	7139	1	8742	0
728	1	2331	1	3934	1	5537	1	7140	1	8743	0
729	1	2332	0	3935	1	5538	0	7141	1	8744	1
730	1	2333	0	3936	0	5539	1	7142	1	8745	1
731	1	2334	0	3937	1	5540	1	7143	1	8746	0
732	0	2335	1	3938	1	5541	0	7144	0	8747	1
733	0	2336	0	3939	0	5542	0	7145	0	8748	0
734	0	2337	0	3940	0	5543	1	7146	1	8749	1
735	0	2338	1	3941	1	5544	0	7147	0	8750	1
736	1	2339	0	3942	0	5545	1	7148	1	8751	1
737	0	2340	0	3943	1	5546	1	7149	1	8752	1
738	1	2341	1	3944	0	5547	1	7150	1	8753	1
739	1	2342	0	3945	0	5548	0	7151	0	8754	1
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742	1	2345	1	3948	0	5551	0	7154	1	8757	1
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745	0	2348	1	3951	0	5554	1	7157	0	8760	1
746	1	2349	0	3952	1	5555	1	7158	1	8761	0
747	1	2350	1	3953	0	5556	1	7159	0	8762	0
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752	0	2355	0	3958	1	5561	0	7164	0	8767	1
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754	1	2357	1	3960	1	5563	0	7166	1	8769	0
755	1	2358	0	3961	0	5564	0	7167	1	8770	1
756	0	2359	0	3962	0	5565	1	7168	0	8771	0
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759	1	2362	1	3965	1	5568	1	7171	0	8774	1
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762	1	2365	0	3968	0	5571	1	7174	0	8777	0
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764	1	2367	0	3970	0	5573	1	7176	1	8779	0
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766	1	2369	0	3972	0	5575	1	7178	1	8781	1
767	1	2370	1	3973	0	5576	0	7179	1	8782	1
768	0	2371	0	3974	1	5577	1	7180	1	8783	0
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771	0	2374	0	3977	1	5580	0	7183	0	8786	1
772	0	2375	1	3978	0	5581	1	7184	1	8787	1
773	0	2376	1	3979	1	5582	1	7185	1	8788	0
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775	1	2378	0	3981	1	5584	1	7187	1	8790	1
776	0	2379	1	3982	1	5585	0	7188	1	8791	1
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778	1	2381	0	3984	0	5587	1	7190	0	8793	0
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781	0	2384	1	3987	1	5590	1	7193	0	8796	0
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785	0	2388	1	3991	1	5594	0	7197	1	8800	0
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787	0	2390	0	3993	0	5596	0	7199	1	8802	0
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789	1	2392	1	3995	0	5598	1	7201	0	8804	1
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794	0	2397	1	4000	1	5603	0	7206	0	8809	1
795	0	2398	1	4001	1	5604	0	7207	1	8810	1
796	0	2399	0	4002	1	5605	0	7208	1	8811	0
797	1	2400	0	4003	0	5606	1	7209	0	8812	1
798	0	2401	0	4004	0	5607	0	7210	1	8813	1
799	1	2402	1	4005	0	5608	1	7211	0	8814	1
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804	0	2407	0	4010	1	5613	0	7216	1	8819	1
805	1	2408	1	4011	1	5614	0	7217	0	8820	0
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814	0	2417	0	4020	1	5623	1	7226	1	8829	0
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816	1	2419	0	4022	0	5625	1	7228	1	8831	0
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825	0	2428	0	4031	0	5634	0	7237	1	8840	1
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831	1	2434	1	4037	1	5640	1	7243	1	8846	1
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835	0	2438	0	4041	1	5644	0	7247	0	8850	0
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839	1	2442	1	4045	1	5648	0	7251	0	8854	0
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845	0	2448	0	4051	0	5654	0	7257	1	8860	0
846	1	2449	0	4052	1	5655	1	7258	1	8861	0
847	0	2450	1	4053	0	5656	1	7259	1	8862	1
848	0	2451	0	4054	1	5657	0	7260	0	8863	1
849	0	2452	1	4055	1	5658	0	7261	0	8864	1
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853	0	2456	0	4059	1	5662	1	7265	1	8868	0
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866	0	2469	0	4072	1	5675	0	7278	1	8881	0
867	0	2470	1	4073	1	5676	1	7279	1	8882	1
868	1	2471	1	4074	1	5677	0	7280	1	8883	1
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871	0	2474	0	4077	1	5680	0	7283	1	8886	1
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874	1	2477	1	4080	0	5683	1	7286	0	8889	0
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876	1	2479	0	4082	1	5685	0	7288	1	8891	1
877	0	2480	0	4083	0	5686	0	7289	1	8892	1
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880	0	2483	1	4086	0	5689	1	7292	1	8895	0
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885	0	2488	0	4091	0	5694	0	7297	1	8900	1
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892	0	2495	1	4098	1	5701	1	7304	1	8907	0
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898	0	2501	0	4104	1	5707	0	7310	1	8913	1
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901	1	2504	0	4107	0	5710	0	7313	0	8916	0
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916	1	2519	0	4122	0	5725	1	7328	1	8931	0
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918	0	2521	1	4124	1	5727	1	7330	0	8933	0
919	1	2522	1	4125	0	5728	1	7331	0	8934	0
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921	1	2524	1	4127	0	5730	0	7333	0	8936	1
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928	1	2531	0	4134	1	5737	0	7340	1	8943	0
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962	0	2565	1	4168	1	5771	1	7374	0	8977	1
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966	1	2569	1	4172	0	5775	0	7378	0	8981	1
967	1	2570	0	4173	0	5776	1	7379	0	8982	0
968	1	2571	0	4174	1	5777	1	7380	1	8983	0
969	1	2572	0	4175	0	5778	1	7381	1	8984	0
970	1	2573	0	4176	1	5779	0	7382	0	8985	0
971	0	2574	0	4177	0	5780	0	7383	0	8986	0
972	0	2575	0	4178	0	5781	1	7384	0	8987	1
973	1	2576	0	4179	1	5782	0	7385	0	8988	0
974	0	2577	1	4180	0	5783	0	7386	1	8989	0
975	0	2578	1	4181	0	5784	0	7387	1	8990	0
976	1	2579	0	4182	0	5785	1	7388	0	8991	0
977	0	2580	0	4183	1	5786	1	7389	0	8992	1
978	0	2581	0	4184	0	5787	0	7390	1	8993	0
979	0	2582	1	4185	0	5788	0	7391	1	8994	0
980	0	2583	1	4186	1	5789	0	7392	0	8995	0
981	0	2584	1	4187	0	5790	1	7393	1	8996	1
982	0	2585	1	4188	1	5791	0	7394	0	8997	1
983	0	2586	1	4189	1	5792	0	7395	0	8998	1

984	0	2587	0	4190	0	5793	1	7396	1	8999	1
985	0	2588	1	4191	1	5794	1	7397	1	9000	1
986	0	2589	0	4192	1	5795	1	7398	1	9001	0
987	0	2590	1	4193	0	5796	1	7399	1	9002	0
988	0	2591	0	4194	0	5797	0	7400	1	9003	1
989	0	2592	0	4195	0	5798	1	7401	1	9004	1
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991	0	2594	0	4197	0	5800	1	7403	1	9006	0
992	0	2595	1	4198	0	5801	1	7404	1	9007	0
993	0	2596	0	4199	0	5802	0	7405	1	9008	1
994	0	2597	0	4200	0	5803	0	7406	1	9009	0
995	1	2598	1	4201	0	5804	1	7407	1	9010	0
996	0	2599	1	4202	1	5805	0	7408	1	9011	1
997	1	2600	1	4203	1	5806	0	7409	0	9012	1
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1032	0	2635	1	4238	0	5841	1	7444	0	9047	1
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1492	1	3095	0	4698	0	6301	0	7904	1	9507	1
1493	0	3096	0	4699	0	6302	1	7905	0	9508	1
1494	0	3097	0	4700	1	6303	1	7906	0	9509	1
1495	1	3098	0	4701	1	6304	0	7907	0	9510	0
1496	0	3099	1	4702	0	6305	1	7908	0	9511	1
1497	0	3100	0	4703	0	6306	1	7909	1	9512	1
1498	0	3101	0	4704	0	6307	0	7910	1	9513	1
1499	0	3102	1	4705	0	6308	1	7911	1	9514	1
1500	0	3103	0	4706	0	6309	0	7912	1	9515	1
1501	0	3104	0	4707	0	6310	1	7913	1	9516	1
1502	0	3105	0	4708	0	6311	1	7914	0	9517	1
1503	0	3106	0	4709	0	6312	1	7915	1	9518	1
1504	0	3107	0	4710	1	6313	0	7916	0	9519	0
1505	1	3108	0	4711	0	6314	0	7917	1	9520	1
1506	0	3109	1	4712	1	6315	1	7918	0	9521	1
1507	0	3110	0	4713	1	6316	1	7919	0	9522	1
1508	0	3111	1	4714	1	6317	1	7920	1	9523	1
1509	0	3112	0	4715	0	6318	0	7921	0	9524	1
1510	1	3113	1	4716	1	6319	0	7922	1	9525	1
1511	1	3114	1	4717	0	6320	0	7923	0	9526	1

1512	1	3115	0	4718	1	6321	0	7924	0	9527	1
1513	0	3116	1	4719	1	6322	0	7925	0	9528	1
1514	1	3117	1	4720	1	6323	0	7926	1	9529	0
1515	1	3118	1	4721	1	6324	1	7927	1	9530	1
1516	1	3119	0	4722	1	6325	0	7928	1	9531	1
1517	0	3120	0	4723	1	6326	1	7929	0	9532	0
1518	0	3121	0	4724	1	6327	0	7930	1	9533	1
1519	0	3122	0	4725	0	6328	0	7931	1	9534	0
1520	0	3123	0	4726	1	6329	0	7932	1	9535	1
1521	1	3124	1	4727	0	6330	1	7933	0	9536	1
1522	1	3125	1	4728	0	6331	1	7934	0	9537	1
1523	0	3126	0	4729	1	6332	0	7935	0	9538	0
1524	0	3127	0	4730	1	6333	0	7936	1	9539	1
1525	1	3128	1	4731	0	6334	1	7937	1	9540	1
1526	0	3129	1	4732	0	6335	0	7938	0	9541	1
1527	1	3130	0	4733	0	6336	1	7939	0	9542	1
1528	1	3131	1	4734	0	6337	0	7940	1	9543	1
1529	1	3132	1	4735	0	6338	1	7941	1	9544	1
1530	0	3133	1	4736	1	6339	1	7942	1	9545	1
1531	1	3134	0	4737	1	6340	1	7943	0	9546	1
1532	0	3135	1	4738	1	6341	1	7944	0	9547	0
1533	0	3136	0	4739	1	6342	1	7945	0	9548	1
1534	0	3137	1	4740	0	6343	0	7946	1	9549	1
1535	0	3138	0	4741	1	6344	0	7947	1	9550	1
1536	0	3139	1	4742	0	6345	0	7948	0	9551	1
1537	0	3140	0	4743	1	6346	0	7949	0	9552	1
1538	1	3141	1	4744	1	6347	1	7950	1	9553	1
1539	0	3142	0	4745	0	6348	0	7951	1	9554	1
1540	1	3143	0	4746	0	6349	0	7952	1	9555	0
1541	0	3144	0	4747	1	6350	1	7953	1	9556	1
1542	1	3145	0	4748	1	6351	0	7954	1	9557	1
1543	0	3146	1	4749	1	6352	0	7955	1	9558	1
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1545	1	3148	1	4751	0	6354	0	7957	0	9560	1
1546	0	3149	1	4752	0	6355	0	7958	1	9561	1
1547	1	3150	1	4753	1	6356	1	7959	1	9562	1
1548	1	3151	1	4754	1	6357	1	7960	1	9563	1
1549	1	3152	0	4755	1	6358	1	7961	0	9564	1
1550	0	3153	0	4756	1	6359	0	7962	1	9565	0
1551	0	3154	1	4757	0	6360	0	7963	1	9566	1
1552	0	3155	1	4758	1	6361	1	7964	1	9567	1
1553	1	3156	0	4759	1	6362	1	7965	0	9568	0
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1556	0	3159	0	4762	0	6365	0	7968	0	9571	1
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1558	1	3161	1	4764	0	6367	1	7970	0	9573	1
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1561	0	3164	0	4767	0	6370	1	7973	0	9576	1
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1565	0	3168	1	4771	0	6374	0	7977	1	9580	1
1566	0	3169	1	4772	1	6375	1	7978	0	9581	1
1567	0	3170	1	4773	0	6376	1	7979	1	9582	1
1568	1	3171	0	4774	0	6377	0	7980	0	9583	1
1569	0	3172	1	4775	1	6378	1	7981	0	9584	1
1570	1	3173	1	4776	1	6379	1	7982	0	9585	1
1571	0	3174	0	4777	0	6380	0	7983	0	9586	1
1572	1	3175	1	4778	1	6381	0	7984	0	9587	1
1573	0	3176	1	4779	1	6382	1	7985	0	9588	1
1574	1	3177	1	4780	0	6383	1	7986	1	9589	1
1575	0	3178	0	4781	0	6384	0	7987	0	9590	1
1576	1	3179	0	4782	0	6385	0	7988	0	9591	1
1577	1	3180	1	4783	1	6386	0	7989	1	9592	1
1578	0	3181	0	4784	1	6387	0	7990	1	9593	1
1579	0	3182	0	4785	0	6388	0	7991	1	9594	1
1580	0	3183	0	4786	1	6389	1	7992	0	9595	1
1581	1	3184	0	4787	1	6390	0	7993	0	9596	1
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1585	1	3188	0	4791	0	6394	1	7997	1	9600	1
1586	1	3189	0	4792	0	6395	0	7998	0	9601	1
1587	0	3190	1	4793	1	6396	0	7999	1	9602	1
1588	1	3191	0	4794	0	6397	1	8000	0	9603	1
1589	1	3192	1	4795	1	6398	1	8001	1	9604	1
1590	1	3193	1	4796	0	6399	0	8002	0	9605	1
1591	0	3194	1	4797	1	6400	1	8003	0	9606	1
1592	0	3195	1	4798	1	6401	1	8004	1	9607	1
1593	1	3196	0	4799	1	6402	1	8005	0	9608	1
1594	1	3197	0	4800	1	6403	1	8006	1	9609	1
1595	0	3198	1	4801	1	6404	0	8007	1	9610	1
1596	0	3199	1	4802	1	6405	0	8008	0	9611	1
1597	0	3200	1	4803	1	6406	1	8009	1		
1598	1	3201	1	4804	1	6407	0	8010	1		
1599	0	3202	0	4805	0	6408	0	8011	0		

1600	1	3203	1	4806	0	6409	1	8012	1	
1601	1	3204	0	4807	1	6410	0	8013	0	
1602	0	3205	0	4808	0	6411	1	8014	0	

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