

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

$$(a, b) = (z^2, z^5 + z^3 + 1)$$

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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 $(a, b) = (z^2, z^5 + z^3 + 1)$.

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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Theorem 1.1. *When $(a, b) = (z^2, z^5 + z^3 + 1)$, the two power series $\text{CF}(a, b)$ and $\text{CF}(b, a)$ are algebraic over $\mathbb{F}_2(z)$, with minimal polynomials of the form*

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

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

$$\begin{aligned} p_0(z) &= z^{21} + z^{20} + z^{19} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^5 + z^4 \\ &\quad + z^2 + 1, \\ p_1(z) &= z^{26} + z^{23} + z^{22} + z^{21} + z^{16} + z^{15} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^4 \\ &\quad + z^2, \\ p_2(z) &= z^{28} + z^{24} + z^{20} + z^{18} + z^{16} + z^{14} + z^4, \\ p_3(z) &= z^{26} + z^{23} + z^{22} + z^{21} + z^{16} + z^{15} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^4 \\ &\quad + z^2, \\ p_4(z) &= z^{24} + z^{21} + z^{19} + z^{18} + z^{13} + z^{11} + z^{10} + z^8 + z^7 + z^5 + z^2, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{21} + z^{19} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^7 + z^5 + z^4 + z^2, \\ p_1(z) &= z^{26} + z^{23} + z^{22} + z^{21} + z^{16} + z^{15} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^4 \\ &\quad + z^2, \\ p_2(z) &= z^{28} + z^{24} + z^{20} + z^{18} + z^{16} + z^{14} + z^4, \\ p_3(z) &= z^{26} + z^{23} + z^{22} + z^{21} + z^{16} + z^{15} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^7 + z^4 \\ &\quad + z^2, \\ p_4(z) &= z^{24} + z^{21} + z^{20} + z^{19} + z^{18} + z^{13} + z^{12} + z^{11} + z^{10} + z^7 + z^5 + z^2 + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

where $\bar{\mathbf{t}}$ 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.*

$$\begin{aligned} M^e[:14u] &= M^e[:7u] + x^{2u} M^e[:5u] + x^{4u} M^e[:3u] + x^{5u} M^e[:2u] + x^{6u} M^e[:u] \\ &\quad + x^{2u} M^e[:7u] + x^{4u} M^e[:5u] + x^{6u} M^e[:3u] + x^{7u} M^e[:2u] \\ &\quad + x^{8u} M^e[:u] + x^{5u} M^e[:7u] + x^{7u} M^e[:5u] + x^{9u} M^e[:3u] \\ &\quad + x^{10u} M^e[:2u] + x^{11u} M^e[:u] + (x^{7u} + x^{9u} + x^{12u}) R^e, \end{aligned}$$

$$\begin{aligned}
W^e[:14u] &= W^e[:7u] + x^{2u}W^e[:5u] + x^{4u}W^e[:3u] + x^{5u}W^e[:2u] + x^{6u}W^e[:u] \\
&\quad + x^{2u}W^e[:7u] + x^{4u}W^e[:5u] + x^{6u}W^e[:3u] + x^{7u}W^e[:2u] \\
&\quad + x^{8u}W^e[:u] + x^{5u}W^e[:7u] + x^{7u}W^e[:5u] + x^{9u}W^e[:3u] \\
&\quad + x^{10u}W^e[:2u] + x^{11u}W^e[:u] + (x^{7u} + x^{9u} + x^{12u})R^e.
\end{aligned}$$

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

$$\begin{aligned}
M^o[:14u] &= M^o[:7u] + x^{2u}M^o[:5u] + x^{4u}M^o[:3u] + x^{5u}M^o[:2u] + x^{6u}M^o[:u] \\
&\quad + x^{2u}M^o[:7u] + x^{4u}M^o[:5u] + x^{6u}M^o[:3u] + x^{7u}M^o[:2u] \\
&\quad + x^{8u}M^o[:u] + x^{5u}M^o[:7u] + x^{7u}M^o[:5u] + x^{9u}M^o[:3u] \\
&\quad + x^{10u}M^o[:2u] + x^{11u}M^o[:u] + (x^{7u} + x^{9u} + x^{12u})R^o, \\
W^o[:14u] &= W^o[:7u] + x^{2u}W^o[:5u] + x^{4u}W^o[:3u] + x^{5u}W^o[:2u] + x^{6u}W^o[:u] \\
&\quad + x^{2u}W^o[:7u] + x^{4u}W^o[:5u] + x^{6u}W^o[:3u] + x^{7u}W^o[:2u] \\
&\quad + x^{8u}W^o[:u] + x^{5u}W^o[:7u] + x^{7u}W^o[:5u] + x^{9u}W^o[:3u] \\
&\quad + x^{10u}W^o[:2u] + x^{11u}W^o[:u] + (x^{7u} + x^{9u} + x^{12u})R^o.
\end{aligned}$$

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

$$\begin{aligned}
(2.7) \quad 0 &= T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[111w]_2], \\
0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[110w]_2]
\end{aligned}$$

$$(2.8) \quad + T[[1000w]_2],$$

$$(2.9) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[100w]_2] + T[[1001w]_2],$$

$$(2.10) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[110w]_2]$$

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

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

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

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

$$(2.14) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[111w]_2],$$

$$0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[110w]_2]$$

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

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

$$(2.17) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[11w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[110w]_2]$$

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

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

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

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8895 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

$$(2.21) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101))$$

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

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

$$+ \tau(A(s, 110)) + \tau(A(s, 1000)),$$

$$(2.23) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

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

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

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

$$(2.25) \quad + \tau(A(s, 110)) + \tau(A(s, 1011)),$$

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

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

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

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

$$\begin{aligned}
(2.28) \quad & +\tau(A(s, 111)), \\
& 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\
(2.29) \quad & + \tau(A(s, 110)) + \tau(A(s, 1000)), \\
(2.30) \quad & 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 1001)), \\
& 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\
(2.31) \quad & + \tau(A(s, 1010)), \\
& 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\
(2.32) \quad & + \tau(A(s, 110)) + \tau(A(s, 1011)), \\
(2.33) \quad & 0 = \tau(A(s, 1100)), \\
(2.34) \quad & 0 = \tau(A(s, 1101)),
\end{aligned}$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{50}), E_{50}) = (A(i, 0^{26}), E_{26})$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

Call this expression *lhs*. Note that both sides of identity M_{2k+1} have the same term of highest degree $x^{14v}R^o$. 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

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

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

$$\begin{aligned} q_0(x) &= x^{28} + x^{26} + x^{24} + x^{23} + x^{21} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{12} \\ &\quad + x^9 + x^8 + x^7, \\ q_1(x) &= x^{26} + x^{24} + x^{21} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^7 + x^6 \end{aligned}$$

$$\begin{aligned}
& + x^5 + x^2, \\
q_2(x) &= x^{24} + x^{14} + x^{12} + x^{10} + x^8 + x^4 + 1, \\
q_3(x) &= x^{26} + x^{24} + x^{21} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^7 + x^6 \\
& + x^5 + x^2, \\
q_4(x) &= x^{26} + x^{23} + x^{21} + x^{20} + x^{18} + x^{17} + x^{15} + x^{10} + x^9 + x^7 + x^4.
\end{aligned}$$

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

$$\begin{aligned}
p_0(x) &= x^{156} + x^{150} + x^{146} + x^{140} + x^{136} + x^{130} + x^{128} + x^{126} + x^{124} + x^{122} \\
& + x^{120} + x^{118} + x^{116} + x^{110} + x^{106} + x^{100} + x^{98} + x^{96} + x^{92} + x^{88} \\
& + x^{86} + x^{82} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{64} + x^{60} + x^{58} \\
& + x^{52} + x^{44} + x^{42} + x^{34} + x^{30} + x^{24}, \\
p_3(x) &= x^{146} + x^{144} + x^{142} + x^{138} + x^{126} + x^{120} + x^{116} + x^{110} + x^{106} + x^{104} \\
& + x^{100} + x^{92} + x^{84} + x^{76} + x^{72} + x^{66} + x^{64} + x^{62} + x^{58} + x^{56} + x^{46} \\
& + x^{44} + x^{42} + x^{38} + x^{32} + x^{28} + x^{24} + x^{22} + x^{18} + x^{16}, \\
p_6(x) &= x^{148} + x^{146} + x^{144} + x^{140} + x^{136} + x^{132} + x^{126} + x^{124} + x^{120} + x^{118} \\
& + x^{112} + x^{110} + x^{108} + x^{102} + x^{98} + x^{94} + x^{90} + x^{88} + x^{86} + x^{84} \\
& + x^{82} + x^{80} + x^{76} + x^{74} + x^{72} + x^{70} + x^{64} + x^{62} + x^{58} + x^{56} + x^{54} \\
& + x^{50} + x^{48} + x^{42} + x^{40} + x^{36} + x^{32} + x^{26} + x^{18} + x^{16} + x^{10} + x^8 \\
& + x^4 + 1, \\
p_9(x) &= x^{152} + x^{148} + x^{138} + x^{134} + x^{132} + x^{126} + x^{122} + x^{116} + x^{110} + x^{106} \\
& + x^{98} + x^{96} + x^{94} + x^{90} + x^{88} + x^{70} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} \\
& + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{28} + x^{24} + x^{16} + x^{14} + x^{12} + x^{10} \\
& + x^8 + x^4, \\
p_{12}(x) &= x^{152} + x^{128} + x^{112} + x^{104} + x^{80} + x^{64} + x^{40} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{147} + x^{145} + x^{142} + x^{140} + x^{139} + x^{138} + x^{131} + x^{130} + x^{129} + x^{127} \\ & + x^{126} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} + x^{113} + x^{112} \\ & + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{105} + x^{104} + x^{103} + x^{99} + x^{98} \\ & + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{86} + x^{85} + x^{84} \\ & + x^{83} + x^{80} + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{71} + x^{69} + x^{68} + x^{67} \\ & + x^{65} + x^{63} + x^{59} + x^{57} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{46} + x^{45} \\ & + x^{43} + x^{42} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{143} + x^{141} + x^{140} + x^{138} + x^{133} + x^{130} + x^{127} + x^{124} + x^{123} + x^{121} \\ & + x^{120} + x^{119} + x^{118} + x^{116} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} \\ & + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} + x^{93} + x^{92} + x^{90} + x^{87} \\ & + x^{84} + x^{79} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} + x^{65} \\ & + x^{64} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} \\ & + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} \\ & + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{141} + x^{138} + x^{137} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} + x^{127} \\ & + x^{126} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{114} \\ & + x^{109} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} \\ & + x^{90} + x^{87} + x^{84} + x^{82} + x^{79} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} \\ & + x^{69} + x^{68} + x^{67} + x^{65} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} \\ & + x^{48} + x^{46} + x^{45} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} \\ & + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{14} \\ & + x^{12}, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{139} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{124} \\ & + x^{119} + x^{116} + x^{111} + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{103} \\ & + x^{101} + x^{100} + x^{98} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} \\ & + x^{82} + x^{80} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} + x^{64} + x^{61} \\ & + x^{58} + x^{55} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{43} + x^{41} + x^{40} + x^{39} \\ & + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} \\ & + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} \\ & + x^{13} + x^{11} + x^{10} + x^9 + x^8 + x^6, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{137} + x^{134} + x^{132} + x^{125} + x^{122} + x^{120} + x^{117} + x^{114} + x^{112} + x^{89} \\ & + x^{86} + x^{84} + x^{77} + x^{74} + x^{72} + x^{69} + x^{66} + x^{64} + x^{25} + x^{22} + x^{20} \\ & + x^{13} + x^{10} + x^8 + x^5 + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{147} + x^{145} + x^{142} + x^{140} + x^{139} + x^{138} + x^{131} + x^{130} + x^{129} + x^{127} \\ & + x^{126} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{115} + x^{113} + x^{112} \\ & + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{105} + x^{104} + x^{103} + x^{99} + x^{98} \\ & + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{86} + x^{85} + x^{84} \\ & + x^{83} + x^{80} + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{71} + x^{69} + x^{68} + x^{67} \\ & + x^{65} + x^{63} + x^{59} + x^{57} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{46} + x^{45} \\ & + x^{43} + x^{42} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{143} + x^{141} + x^{140} + x^{138} + x^{133} + x^{130} + x^{127} + x^{124} + x^{123} + x^{121} \\ & + x^{120} + x^{119} + x^{118} + x^{116} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} \\ & + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} + x^{93} + x^{92} + x^{90} + x^{87} \\ & + x^{84} + x^{79} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} + x^{65} \\ & + x^{64} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} \\ & + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} \\ & + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{141} + x^{138} + x^{137} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} + x^{127} \\ & + x^{126} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{114} \\ & + x^{109} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} \\ & + x^{90} + x^{87} + x^{84} + x^{82} + x^{79} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} \\ & + x^{69} + x^{68} + x^{67} + x^{65} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} \\ & + x^{48} + x^{46} + x^{45} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} \\ & + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{14} \\ & + x^{12}, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{139} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{124} \\ & + x^{119} + x^{116} + x^{111} + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{103} \\ & + x^{101} + x^{100} + x^{98} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} \\ & + x^{82} + x^{80} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} + x^{64} + x^{61} \\ & + x^{58} + x^{55} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{43} + x^{41} + x^{40} + x^{39} \\ & + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} \\ & + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} \\ & + x^{13} + x^{11} + x^{10} + x^9 + x^8 + x^6, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{137} + x^{134} + x^{132} + x^{125} + x^{122} + x^{120} + x^{117} + x^{114} + x^{112} + x^{89} \\ & + x^{86} + x^{84} + x^{77} + x^{74} + x^{72} + x^{69} + x^{66} + x^{64} + x^{25} + x^{22} + x^{20} \\ & + x^{13} + x^{10} + x^8 + x^5 + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{134} + x^{132} + x^{128} + x^{126} + x^{118} + x^{114} + x^{108} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{96} + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{78} + x^{76} + x^{74} + x^{70} \\
&\quad + x^{62} + x^{46} + x^{44} + x^{42}, \\
p_3(x) &= x^{126} + x^{122} + x^{120} + x^{118} + x^{110} + x^{108} + x^{104} + x^{96} + x^{94} + x^{86} \\
&\quad + x^{82} + x^{74} + x^{70} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{58} + x^{56} + x^{52} \\
&\quad + x^{48} + x^{46} + x^{44} + x^{42} + x^{28} + x^{26} + x^{24} + x^{22} + x^{12}, \\
p_6(x) &= x^{126} + x^{120} + x^{116} + x^{114} + x^{112} + x^{104} + x^{102} + x^{98} + x^{96} + x^{92} \\
&\quad + x^{88} + x^{80} + x^{76} + x^{74} + x^{70} + x^{68} + x^{66} + x^{60} + x^{58} + x^{52} + x^{48} \\
&\quad + x^{44} + x^{42} + x^{40} + x^{34} + x^{32} + x^{20} + x^{12} + x^8 + 1, \\
p_9(x) &= x^{122} + x^{118} + x^{116} + x^{104} + x^{98} + x^{92} + x^{90} + x^{86} + x^{80} + x^{78} + x^{76} \\
&\quad + x^{66} + x^{54} + x^{52} + x^{48} + x^{46} + x^{42} + x^{38} + x^{36} + x^{34} + x^{30} + x^{22} \\
&\quad + x^{20} + x^{14} + x^{10} + x^4, \\
p_{12}(x) &= x^{122} + x^{116} + x^{112} + x^{74} + x^{68} + x^{64} + x^{10} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{134} + x^{132} + x^{130} + x^{128} + x^{126} + x^{124} + x^{122} + x^{120} + x^{116} \\
&\quad + x^{114} + x^{112} + x^{108} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{86} \\
&\quad + x^{82} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{66} + x^{58} + x^{56} + x^{52} + x^{48} \\
&\quad + x^{46} + x^{44} + x^{40} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{24}, \\
p_3(x) &= x^{126} + x^{122} + x^{120} + x^{114} + x^{112} + x^{106} + x^{100} + x^{98} + x^{96} + x^{92} \\
&\quad + x^{90} + x^{88} + x^{86} + x^{84} + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} \\
&\quad + x^{64} + x^{62} + x^{60} + x^{56} + x^{48} + x^{46} + x^{44} + x^{36} + x^{30} + x^{28} + x^{26} \\
&\quad + x^{18} + x^{16}, \\
p_6(x) &= x^{126} + x^{120} + x^{118} + x^{116} + x^{114} + x^{110} + x^{104} + x^{102} + x^{90} + x^{88} \\
&\quad + x^{86} + x^{78} + x^{62} + x^{60} + x^{58} + x^{44} + x^{40} + x^{38} + x^{36} + x^{24} + x^{22} \\
&\quad + x^{16} + x^{12} + 1, \\
p_9(x) &= x^{122} + x^{118} + x^{116} + x^{104} + x^{98} + x^{92} + x^{90} + x^{86} + x^{80} + x^{78} + x^{76} \\
&\quad + x^{66} + x^{54} + x^{52} + x^{48} + x^{46} + x^{42} + x^{38} + x^{36} + x^{34} + x^{30} + x^{22} \\
&\quad + x^{20} + x^{14} + x^{10} + x^4, \\
p_{12}(x) &= x^{122} + x^{116} + x^{112} + x^{74} + x^{68} + x^{64} + x^{10} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{143} + x^{139} + x^{138} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{129} \\
&\quad + x^{127} + x^{125} + x^{121} + x^{120} + x^{119} + x^{118} + x^{114} + x^{109} + x^{108}
\end{aligned}$$

$$\begin{aligned}
& + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{91} + x^{89} + x^{87} + x^{85} + x^{83} + x^{81} \\
& + x^{79} + x^{74} + x^{72} + x^{67} + x^{65} + x^{64} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} \\
& + x^{52} + x^{49} + x^{48} + x^{44} + x^{43} + x^{40} + x^{38} + x^{37} + x^{36} + x^{33}, \\
p_3(x) = & x^{143} + x^{141} + x^{140} + x^{138} + x^{133} + x^{130} + x^{127} + x^{124} + x^{123} + x^{121} \\
& + x^{120} + x^{119} + x^{118} + x^{116} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} \\
& + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} + x^{93} + x^{92} + x^{90} + x^{87} \\
& + x^{84} + x^{79} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} + x^{65} \\
& + x^{64} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} \\
& + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_6(x) = & x^{141} + x^{138} + x^{137} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} + x^{127} \\
& + x^{126} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{114} \\
& + x^{109} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} \\
& + x^{90} + x^{87} + x^{84} + x^{82} + x^{79} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} \\
& + x^{48} + x^{46} + x^{45} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} \\
& + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{14} \\
& + x^{12}, \\
p_9(x) = & x^{139} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{124} \\
& + x^{119} + x^{116} + x^{111} + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{103} \\
& + x^{101} + x^{100} + x^{98} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} \\
& + x^{82} + x^{80} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} + x^{64} + x^{61} \\
& + x^{58} + x^{55} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{43} + x^{41} + x^{40} + x^{39} \\
& + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} \\
& + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} \\
& + x^{13} + x^{11} + x^{10} + x^9 + x^8 + x^6, \\
p_{12}(x) = & x^{137} + x^{134} + x^{132} + x^{125} + x^{122} + x^{120} + x^{117} + x^{114} + x^{112} + x^{89} \\
& + x^{86} + x^{84} + x^{77} + x^{74} + x^{72} + x^{69} + x^{66} + x^{64} + x^{25} + x^{22} + x^{20} \\
& + x^{13} + x^{10} + x^8 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{143} + x^{139} + x^{138} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{129} \\
& + x^{127} + x^{125} + x^{121} + x^{120} + x^{119} + x^{118} + x^{114} + x^{109} + x^{108} \\
& + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{91} + x^{89} + x^{87} + x^{85} + x^{83} + x^{81} \\
& + x^{79} + x^{74} + x^{72} + x^{67} + x^{65} + x^{64} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55}
\end{aligned}$$

$$\begin{aligned}
& + x^{52} + x^{49} + x^{48} + x^{44} + x^{43} + x^{40} + x^{38} + x^{37} + x^{36} + x^{33}, \\
p_3(x) = & x^{143} + x^{141} + x^{140} + x^{138} + x^{133} + x^{130} + x^{127} + x^{124} + x^{123} + x^{121} \\
& + x^{120} + x^{119} + x^{118} + x^{116} + x^{109} + x^{107} + x^{106} + x^{105} + x^{104} \\
& + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} + x^{93} + x^{92} + x^{90} + x^{87} \\
& + x^{84} + x^{79} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} + x^{65} \\
& + x^{64} + x^{62} + x^{59} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} \\
& + x^{49} + x^{48} + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{36} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_6(x) = & x^{141} + x^{138} + x^{137} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} + x^{127} \\
& + x^{126} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{114} \\
& + x^{109} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} \\
& + x^{90} + x^{87} + x^{84} + x^{82} + x^{79} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} \\
& + x^{48} + x^{46} + x^{45} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} \\
& + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{23} + x^{22} + x^{20} + x^{18} + x^{17} + x^{14} \\
& + x^{12}, \\
p_9(x) = & x^{139} + x^{137} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{124} \\
& + x^{119} + x^{116} + x^{111} + x^{109} + x^{108} + x^{107} + x^{106} + x^{104} + x^{103} \\
& + x^{101} + x^{100} + x^{98} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} \\
& + x^{82} + x^{80} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{70} + x^{67} + x^{64} + x^{61} \\
& + x^{58} + x^{55} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{43} + x^{41} + x^{40} + x^{39} \\
& + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} \\
& + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} \\
& + x^{13} + x^{11} + x^{10} + x^9 + x^8 + x^6, \\
p_{12}(x) = & x^{137} + x^{134} + x^{132} + x^{125} + x^{122} + x^{120} + x^{117} + x^{114} + x^{112} + x^{89} \\
& + x^{86} + x^{84} + x^{77} + x^{74} + x^{72} + x^{69} + x^{66} + x^{64} + x^{25} + x^{22} + x^{20} \\
& + x^{13} + x^{10} + x^8 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{156} + x^{152} + x^{150} + x^{148} + x^{146} + x^{142} + x^{138} + x^{136} + x^{132} + x^{126} \\
& + x^{120} + x^{118} + x^{110} + x^{106} + x^{102} + x^{98} + x^{86} + x^{82} + x^{78} + x^{74} \\
& + x^{70} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} + x^{42}, \\
p_3(x) = & x^{148} + x^{146} + x^{142} + x^{140} + x^{136} + x^{134} + x^{132} + x^{130} + x^{128} + x^{126} \\
& + x^{122} + x^{118} + x^{116} + x^{114} + x^{110} + x^{106} + x^{100} + x^{98} + x^{94} + x^{88} \\
& + x^{86} + x^{82} + x^{76} + x^{68} + x^{56} + x^{52} + x^{46} + x^{44} + x^{42} + x^{38} + x^{36}
\end{aligned}$$

$$\begin{aligned}
& + x^{26} + x^{16} + x^{12}, \\
p_6(x) &= x^{146} + x^{144} + x^{138} + x^{136} + x^{134} + x^{130} + x^{128} + x^{126} + x^{122} + x^{120} \\
& + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{104} + x^{102} + x^{92} + x^{90} + x^{84} \\
& + x^{76} + x^{74} + x^{70} + x^{68} + x^{66} + x^{64} + x^{54} + x^{50} + x^{48} + x^{44} + x^{42} \\
& + x^{36} + x^{24} + x^{22} + x^{20} + x^{16} + x^{12} + x^{10} + x^4 + 1, \\
p_9(x) &= x^{152} + x^{148} + x^{138} + x^{134} + x^{132} + x^{126} + x^{122} + x^{116} + x^{110} + x^{106} \\
& + x^{98} + x^{96} + x^{94} + x^{90} + x^{88} + x^{70} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} \\
& + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{28} + x^{24} + x^{16} + x^{14} + x^{12} + x^{10} \\
& + x^8 + x^4, \\
p_{12}(x) &= x^{152} + x^{128} + x^{112} + x^{104} + x^{80} + x^{64} + x^{40} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{145} + x^{143} + x^{142} + x^{140} + x^{138} + x^{135} + x^{134} + x^{133} + x^{131} \\
& + x^{129} + x^{128} + x^{127} + x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{116} \\
& + x^{115} + x^{114} + x^{113} + x^{111} + x^{108} + x^{107} + x^{104} + x^{100} + x^{94} + x^{92} \\
& + x^{91} + x^{88} + x^{87} + x^{85} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{54} + x^{53} \\
& + x^{51} + x^{50} + x^{49} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{33} + x^{32} \\
& + x^{31} + x^{29} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{145} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{137} + x^{136} + x^{134} + x^{133} \\
& + x^{132} + x^{129} + x^{128} + x^{126} + x^{120} + x^{118} + x^{117} + x^{116} + x^{115} \\
& + x^{114} + x^{113} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{88} + x^{81} + x^{79} + x^{78} + x^{76} + x^{75} \\
& + x^{73} + x^{70} + x^{68} + x^{65} + x^{64} + x^{60} + x^{59} + x^{57} + x^{55} + x^{54} + x^{52} \\
& + x^{49} + x^{48} + x^{44} + x^{43} + x^{42} + x^{36} + x^{31} + x^{28} + x^{25} + x^{24} + x^{23} \\
& + x^{21} + x^{20} + x^{18} + x^{16}, \\
p_6(x) &= x^{145} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} \\
& + x^{132} + x^{130} + x^{129} + x^{127} + x^{126} + x^{125} + x^{121} + x^{119} + x^{117} \\
& + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{85} + x^{84} + x^{83} \\
& + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{71} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{59} + x^{57} + x^{56} + x^{50} + x^{49} + x^{44} + x^{43} + x^{41} + x^{39} + x^{38} \\
& + x^{36} + x^{35} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{25} + x^{21} + x^{18} \\
& + x^{17} + x^{15} + x^{12} + x^5 + x^2 + 1, \\
p_9(x) &= x^{145} + x^{142} + x^{140} + x^{137} + x^{134} + x^{133} + x^{132} + x^{130} + x^{128} + x^{125}
\end{aligned}$$

$$\begin{aligned}
& + x^{122} + x^{120} + x^{97} + x^{94} + x^{92} + x^{89} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} \\
& + x^{77} + x^{74} + x^{72} + x^{33} + x^{30} + x^{28} + x^{25} + x^{22} + x^{21} + x^{20} + x^{18} \\
& + x^{16} + x^{13} + x^{10} + x^8, \\
p_{12}(x) = & x^{145} + x^{142} + x^{140} + x^{133} + x^{130} + x^{128} + x^{117} + x^{114} + x^{112} + x^{97} \\
& + x^{94} + x^{92} + x^{85} + x^{82} + x^{80} + x^{69} + x^{66} + x^{64} + x^{33} + x^{30} + x^{28} \\
& + x^{21} + x^{18} + x^{16} + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{148} + x^{142} + x^{140} + x^{139} + x^{137} + x^{135} + x^{134} + x^{131} + x^{127} + x^{125} \\
& + x^{121} + x^{119} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{106} \\
& + x^{105} + x^{99} + x^{97} + x^{92} + x^{89} + x^{87} + x^{84} + x^{81} + x^{80} + x^{79} + x^{78} \\
& + x^{77} + x^{76} + x^{75} + x^{72} + x^{70} + x^{68} + x^{67} + x^{66} + x^{64} + x^{61} + x^{60} \\
& + x^{59} + x^{57} + x^{53} + x^{51} + x^{50} + x^{48} + x^{46} + x^{45} + x^{43} + x^{42} + x^{40} \\
& + x^{39} + x^{34} + x^{33}, \\
p_3(x) = & x^{134} + x^{132} + x^{129} + x^{127} + x^{126} + x^{123} + x^{121} + x^{119} + x^{118} + x^{117} \\
& + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{107} + x^{105} + x^{103} + x^{101} \\
& + x^{98} + x^{86} + x^{84} + x^{81} + x^{79} + x^{76} + x^{75} + x^{69} + x^{68} + x^{67} + x^{66} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{53} + x^{52} + x^{51} + x^{50} + x^{46} + x^{45} + x^{43} \\
& + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{27} \\
& + x^{25} + x^{23} + x^{21} + x^{18}, \\
p_6(x) = & x^{136} + x^{132} + x^{128} + x^{126} + x^{122} + x^{118} + x^{114} + x^{104} + x^{100} + x^{98} \\
& + x^{96} + x^{94} + x^{92} + x^{90} + x^{82} + x^{74} + x^{70} + x^{66} + x^{64} + x^{62} + x^{60} \\
& + x^{54} + x^{52} + x^{50} + x^{46} + x^{40} + x^{36} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} \\
& + x^{18} + x^{12}, \\
p_9(x) = & x^{138} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} + x^{129} + x^{128} + x^{125} \\
& + x^{124} + x^{123} + x^{121} + x^{118} + x^{90} + x^{88} + x^{86} + x^{85} + x^{84} + x^{83} \\
& + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} + x^{73} + x^{70} + x^{26} + x^{24} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{13} + x^{12} + x^{11} + x^9 + x^6, \\
p_{12}(x) = & x^{140} + x^{128} + x^{112} + x^{92} + x^{80} + x^{64} + x^{28} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{156} + x^{154} + x^{152} + x^{151} + x^{150} + x^{149} + x^{148} + x^{146} + x^{145} + x^{144} \\
& + x^{142} + x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{131} + x^{130} + x^{126} \\
& + x^{123} + x^{122} + x^{119} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} + x^{106} \\
& + x^{104} + x^{103} + x^{101} + x^{100} + x^{97} + x^{95} + x^{94} + x^{93} + x^{91} + x^{88}
\end{aligned}$$

$$\begin{aligned}
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{73} + x^{72} + x^{69} + x^{68} + x^{67} \\
& + x^{65} + x^{63} + x^{61} + x^{58} + x^{54} + x^{52} + x^{51} + x^{47} + x^{45} + x^{44} + x^{43} \\
& + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33}, \\
p_3(x) = & x^{154} + x^{152} + x^{149} + x^{147} + x^{146} + x^{143} + x^{142} + x^{141} + x^{140} + x^{139} \\
& + x^{138} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{124} \\
& + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{110} + x^{109} \\
& + x^{107} + x^{105} + x^{104} + x^{103} + x^{99} + x^{98} + x^{96} + x^{95} + x^{94} + x^{92} \\
& + x^{88} + x^{83} + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} + x^{66} \\
& + x^{65} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} \\
& + x^{50} + x^{49} + x^{45} + x^{44} + x^{41} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{21} + x^{18}, \\
p_6(x) = & x^{156} + x^{152} + x^{148} + x^{146} + x^{144} + x^{142} + x^{140} + x^{138} + x^{132} + x^{130} \\
& + x^{128} + x^{124} + x^{120} + x^{116} + x^{110} + x^{108} + x^{106} + x^{96} + x^{92} + x^{90} \\
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{74} + x^{70} + x^{68} + x^{64} + x^{60} + x^{58} \\
& + x^{56} + x^{50} + x^{42} + x^{38} + x^{34} + x^{32} + x^{30} + x^{28} + x^{24} + x^{22} + x^{20} \\
& + x^{18} + x^{12}, \\
p_9(x) = & x^{158} + x^{156} + x^{154} + x^{153} + x^{152} + x^{151} + x^{150} + x^{149} + x^{148} + x^{146} \\
& + x^{145} + x^{143} + x^{142} + x^{140} + x^{139} + x^{138} + x^{137} + x^{134} + x^{130} \\
& + x^{128} + x^{126} + x^{125} + x^{124} + x^{123} + x^{121} + x^{118} + x^{110} + x^{108} \\
& + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{95} \\
& + x^{94} + x^{92} + x^{91} + x^{90} + x^{89} + x^{86} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} \\
& + x^{75} + x^{73} + x^{70} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} \\
& + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} + x^{18} \\
& + x^{16} + x^{14} + x^{13} + x^{12} + x^{11} + x^9 + x^6, \\
p_{12}(x) = & x^{160} + x^{140} + x^{136} + x^{132} + x^{128} + x^{120} + x^{92} + x^{88} + x^{84} + x^{80} \\
& + x^{72} + x^{64} + x^{48} + x^{28} + x^{24} + x^{20} + x^{16} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{141} + x^{139} + x^{137} + x^{134} + x^{132} + x^{131} + x^{127} + x^{123} + x^{121} \\
& + x^{118} + x^{117} + x^{116} + x^{111} + x^{109} + x^{108} + x^{107} + x^{103} + x^{102} \\
& + x^{101} + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{92} + x^{91} + x^{89} + x^{84} + x^{82} \\
& + x^{79} + x^{77} + x^{76} + x^{75} + x^{72} + x^{71} + x^{70} + x^{66} + x^{65} + x^{64} + x^{63} \\
& + x^{62} + x^{59} + x^{58} + x^{56} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\
& + x^{45} + x^{43} + x^{42}, \\
p_3(x) = & x^{145} + x^{143} + x^{142} + x^{140} + x^{137} + x^{134} + x^{133} + x^{132} + x^{131} + x^{127}
\end{aligned}$$

$$\begin{aligned}
& + x^{126} + x^{122} + x^{121} + x^{120} + x^{111} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{101} + x^{99} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{85} + x^{83} \\
& + x^{82} + x^{78} + x^{76} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{65} + x^{64} \\
& + x^{63} + x^{62} + x^{61} + x^{57} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} \\
& + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} + x^{29} + x^{28} + x^{23} \\
& + x^{22}, \\
p_6(x) = & x^{145} + x^{143} + x^{142} + x^{140} + x^{137} + x^{135} + x^{134} + x^{133} + x^{132} + x^{131} \\
& + x^{126} + x^{123} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{108} + x^{104} + x^{103} + x^{101} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} \\
& + x^{90} + x^{87} + x^{85} + x^{83} + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{72} \\
& + x^{69} + x^{66} + x^{65} + x^{63} + x^{62} + x^{55} + x^{51} + x^{48} + x^{43} + x^{39} + x^{37} \\
& + x^{35} + x^{34} + x^{33} + x^{30} + x^{28} + x^{23} + x^{21} + x^{15} + x^{14} + x^{13} + x^{10} \\
& + x^8 + x^5 + x^2 + 1, \\
p_9(x) = & x^{145} + x^{142} + x^{140} + x^{137} + x^{134} + x^{133} + x^{132} + x^{130} + x^{128} + x^{125} \\
& + x^{122} + x^{120} + x^{97} + x^{94} + x^{92} + x^{89} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} \\
& + x^{77} + x^{74} + x^{72} + x^{33} + x^{30} + x^{28} + x^{25} + x^{22} + x^{21} + x^{20} + x^{18} \\
& + x^{16} + x^{13} + x^{10} + x^8, \\
p_{12}(x) = & x^{145} + x^{142} + x^{140} + x^{133} + x^{130} + x^{128} + x^{117} + x^{114} + x^{112} + x^{97} \\
& + x^{94} + x^{92} + x^{85} + x^{82} + x^{80} + x^{69} + x^{66} + x^{64} + x^{33} + x^{30} + x^{28} \\
& + x^{21} + x^{18} + x^{16} + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{145} + x^{143} + x^{142} + x^{140} + x^{138} + x^{135} + x^{134} + x^{133} + x^{131} \\
& + x^{129} + x^{128} + x^{127} + x^{126} + x^{123} + x^{122} + x^{121} + x^{120} + x^{116} \\
& + x^{115} + x^{114} + x^{113} + x^{111} + x^{108} + x^{107} + x^{104} + x^{100} + x^{94} + x^{92} \\
& + x^{91} + x^{88} + x^{87} + x^{85} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{54} + x^{53} \\
& + x^{51} + x^{50} + x^{49} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{33} + x^{32} \\
& + x^{31} + x^{29} + x^{28} + x^{26} + x^{24}, \\
p_3(x) = & x^{145} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{137} + x^{136} + x^{134} + x^{133} \\
& + x^{132} + x^{129} + x^{128} + x^{126} + x^{120} + x^{118} + x^{117} + x^{116} + x^{115} \\
& + x^{114} + x^{113} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{88} + x^{81} + x^{79} + x^{78} + x^{76} + x^{75} \\
& + x^{73} + x^{70} + x^{68} + x^{65} + x^{64} + x^{60} + x^{59} + x^{57} + x^{55} + x^{54} + x^{52} \\
& + x^{49} + x^{48} + x^{44} + x^{43} + x^{42} + x^{36} + x^{31} + x^{28} + x^{25} + x^{24} + x^{23}
\end{aligned}$$

$$\begin{aligned}
& + x^{21} + x^{20} + x^{18} + x^{16}, \\
p_6(x) = & x^{145} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{137} + x^{136} + x^{135} + x^{134} \\
& + x^{132} + x^{130} + x^{129} + x^{127} + x^{126} + x^{125} + x^{121} + x^{119} + x^{117} \\
& + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} + x^{109} + x^{108} + x^{106} + x^{105} \\
& + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{85} + x^{84} + x^{83} \\
& + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{71} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{59} + x^{57} + x^{56} + x^{50} + x^{49} + x^{44} + x^{43} + x^{41} + x^{39} + x^{38} \\
& + x^{36} + x^{35} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{25} + x^{21} + x^{18} \\
& + x^{17} + x^{15} + x^{12} + x^5 + x^2 + 1, \\
p_9(x) = & x^{145} + x^{142} + x^{140} + x^{137} + x^{134} + x^{133} + x^{132} + x^{130} + x^{128} + x^{125} \\
& + x^{122} + x^{120} + x^{97} + x^{94} + x^{92} + x^{89} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} \\
& + x^{77} + x^{74} + x^{72} + x^{33} + x^{30} + x^{28} + x^{25} + x^{22} + x^{21} + x^{20} + x^{18} \\
& + x^{16} + x^{13} + x^{10} + x^8, \\
p_{12}(x) = & x^{145} + x^{142} + x^{140} + x^{133} + x^{130} + x^{128} + x^{117} + x^{114} + x^{112} + x^{97} \\
& + x^{94} + x^{92} + x^{85} + x^{82} + x^{80} + x^{69} + x^{66} + x^{64} + x^{33} + x^{30} + x^{28} \\
& + x^{21} + x^{18} + x^{16} + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{156} + x^{154} + x^{152} + x^{151} + x^{150} + x^{149} + x^{148} + x^{146} + x^{145} + x^{144} \\
& + x^{142} + x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{131} + x^{130} + x^{126} \\
& + x^{123} + x^{122} + x^{119} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} + x^{106} \\
& + x^{104} + x^{103} + x^{101} + x^{100} + x^{97} + x^{95} + x^{94} + x^{93} + x^{91} + x^{88} \\
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{79} + x^{77} + x^{73} + x^{72} + x^{69} + x^{68} + x^{67} \\
& + x^{65} + x^{63} + x^{61} + x^{58} + x^{54} + x^{52} + x^{51} + x^{47} + x^{45} + x^{44} + x^{43} \\
& + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33}, \\
p_3(x) = & x^{154} + x^{152} + x^{149} + x^{147} + x^{146} + x^{143} + x^{142} + x^{141} + x^{140} + x^{139} \\
& + x^{138} + x^{136} + x^{135} + x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{124} \\
& + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{110} + x^{109} \\
& + x^{107} + x^{105} + x^{104} + x^{103} + x^{99} + x^{98} + x^{96} + x^{95} + x^{94} + x^{92} \\
& + x^{88} + x^{83} + x^{80} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} + x^{66} \\
& + x^{65} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} \\
& + x^{50} + x^{49} + x^{45} + x^{44} + x^{41} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{21} + x^{18}, \\
p_6(x) = & x^{156} + x^{152} + x^{148} + x^{146} + x^{144} + x^{142} + x^{140} + x^{138} + x^{132} + x^{130} \\
& + x^{128} + x^{124} + x^{120} + x^{116} + x^{110} + x^{108} + x^{106} + x^{96} + x^{92} + x^{90}
\end{aligned}$$

$$\begin{aligned}
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{74} + x^{70} + x^{68} + x^{64} + x^{60} + x^{58} \\
& + x^{56} + x^{50} + x^{42} + x^{38} + x^{34} + x^{32} + x^{30} + x^{28} + x^{24} + x^{22} + x^{20} \\
& + x^{18} + x^{12}, \\
p_9(x) = & x^{158} + x^{156} + x^{154} + x^{153} + x^{152} + x^{151} + x^{150} + x^{149} + x^{148} + x^{146} \\
& + x^{145} + x^{143} + x^{142} + x^{140} + x^{139} + x^{138} + x^{137} + x^{134} + x^{130} \\
& + x^{128} + x^{126} + x^{125} + x^{124} + x^{123} + x^{121} + x^{118} + x^{110} + x^{108} \\
& + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{97} + x^{95} \\
& + x^{94} + x^{92} + x^{91} + x^{90} + x^{89} + x^{86} + x^{82} + x^{80} + x^{78} + x^{77} + x^{76} \\
& + x^{75} + x^{73} + x^{70} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} \\
& + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{28} + x^{27} + x^{26} + x^{25} + x^{22} + x^{18} \\
& + x^{16} + x^{14} + x^{13} + x^{12} + x^{11} + x^9 + x^6, \\
p_{12}(x) = & x^{160} + x^{140} + x^{136} + x^{132} + x^{128} + x^{120} + x^{92} + x^{88} + x^{84} + x^{80} \\
& + x^{72} + x^{64} + x^{48} + x^{28} + x^{24} + x^{20} + x^{16} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{148} + x^{142} + x^{140} + x^{139} + x^{137} + x^{135} + x^{134} + x^{131} + x^{127} + x^{125} \\
& + x^{121} + x^{119} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{106} \\
& + x^{105} + x^{99} + x^{97} + x^{92} + x^{89} + x^{87} + x^{84} + x^{81} + x^{80} + x^{79} + x^{78} \\
& + x^{77} + x^{76} + x^{75} + x^{72} + x^{70} + x^{68} + x^{67} + x^{66} + x^{64} + x^{61} + x^{60} \\
& + x^{59} + x^{57} + x^{53} + x^{51} + x^{50} + x^{48} + x^{46} + x^{45} + x^{43} + x^{42} + x^{40} \\
& + x^{39} + x^{34} + x^{33}, \\
p_3(x) = & x^{134} + x^{132} + x^{129} + x^{127} + x^{126} + x^{123} + x^{121} + x^{119} + x^{118} + x^{117} \\
& + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{107} + x^{105} + x^{103} + x^{101} \\
& + x^{98} + x^{86} + x^{84} + x^{81} + x^{79} + x^{76} + x^{75} + x^{69} + x^{68} + x^{67} + x^{66} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{53} + x^{52} + x^{51} + x^{50} + x^{46} + x^{45} + x^{43} \\
& + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{31} + x^{30} + x^{27} \\
& + x^{25} + x^{23} + x^{21} + x^{18}, \\
p_6(x) = & x^{136} + x^{132} + x^{128} + x^{126} + x^{122} + x^{118} + x^{114} + x^{104} + x^{100} + x^{98} \\
& + x^{96} + x^{94} + x^{92} + x^{90} + x^{82} + x^{74} + x^{70} + x^{66} + x^{64} + x^{62} + x^{60} \\
& + x^{54} + x^{52} + x^{50} + x^{46} + x^{40} + x^{36} + x^{32} + x^{28} + x^{26} + x^{24} + x^{22} \\
& + x^{18} + x^{12}, \\
p_9(x) = & x^{138} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} + x^{129} + x^{128} + x^{125} \\
& + x^{124} + x^{123} + x^{121} + x^{118} + x^{90} + x^{88} + x^{86} + x^{85} + x^{84} + x^{83} \\
& + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} + x^{73} + x^{70} + x^{26} + x^{24} + x^{22} \\
& + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{13} + x^{12} + x^{11} + x^9 + x^6,
\end{aligned}$$

$$p_{12}(x) = x^{140} + x^{128} + x^{112} + x^{92} + x^{80} + x^{64} + x^{28} + x^{16} + 1,$$

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

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

$$\begin{aligned} p_0(x) = & x^{147} + x^{141} + x^{139} + x^{137} + x^{134} + x^{132} + x^{131} + x^{127} + x^{123} + x^{121} \\ & + x^{118} + x^{117} + x^{116} + x^{111} + x^{109} + x^{108} + x^{107} + x^{103} + x^{102} \\ & + x^{101} + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{92} + x^{91} + x^{89} + x^{84} + x^{82} \\ & + x^{79} + x^{77} + x^{76} + x^{75} + x^{72} + x^{71} + x^{70} + x^{66} + x^{65} + x^{64} + x^{63} \\ & + x^{62} + x^{59} + x^{58} + x^{56} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\ & + x^{45} + x^{43} + x^{42}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{145} + x^{143} + x^{142} + x^{140} + x^{137} + x^{134} + x^{133} + x^{132} + x^{131} + x^{127} \\ & + x^{126} + x^{122} + x^{121} + x^{120} + x^{111} + x^{109} + x^{108} + x^{106} + x^{105} \\ & + x^{101} + x^{99} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{85} + x^{83} \\ & + x^{82} + x^{78} + x^{76} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{67} + x^{65} + x^{64} \\ & + x^{63} + x^{62} + x^{61} + x^{57} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} \\ & + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} + x^{29} + x^{28} + x^{23} \\ & + x^{22}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{145} + x^{143} + x^{142} + x^{140} + x^{137} + x^{135} + x^{134} + x^{133} + x^{132} + x^{131} \\ & + x^{126} + x^{123} + x^{121} + x^{118} + x^{117} + x^{114} + x^{113} + x^{112} + x^{111} \\ & + x^{110} + x^{108} + x^{104} + x^{103} + x^{101} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} \\ & + x^{90} + x^{87} + x^{85} + x^{83} + x^{81} + x^{80} + x^{79} + x^{77} + x^{76} + x^{74} + x^{72} \\ & + x^{69} + x^{66} + x^{65} + x^{63} + x^{62} + x^{55} + x^{51} + x^{48} + x^{43} + x^{39} + x^{37} \\ & + x^{35} + x^{34} + x^{33} + x^{30} + x^{28} + x^{23} + x^{21} + x^{15} + x^{14} + x^{13} + x^{10} \\ & + x^8 + x^5 + x^2 + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{145} + x^{142} + x^{140} + x^{137} + x^{134} + x^{133} + x^{132} + x^{130} + x^{128} + x^{125} \\ & + x^{122} + x^{120} + x^{97} + x^{94} + x^{92} + x^{89} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} \\ & + x^{77} + x^{74} + x^{72} + x^{33} + x^{30} + x^{28} + x^{25} + x^{22} + x^{21} + x^{20} + x^{18} \\ & + x^{16} + x^{13} + x^{10} + x^8, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{145} + x^{142} + x^{140} + x^{133} + x^{130} + x^{128} + x^{117} + x^{114} + x^{112} + x^{97} \\ & + x^{94} + x^{92} + x^{85} + x^{82} + x^{80} + x^{69} + x^{66} + x^{64} + x^{33} + x^{30} + x^{28} \\ & + x^{21} + x^{18} + x^{16} + x^5 + x^2 + 1, \end{aligned}$$

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

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	$\Lambda(n)$
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0	[1, 2]	2224	[3587, 1610]	4448	[5911, 1557]	6672	[45, 5590]
1	[3, 4]	2225	[3588, 3589]	4449	[5912, 5913]	6673	[7598, 576]
2	[5, 6]	2226	[3590, 3591]	4450	[270, 934]	6674	[7599, 7600]
3	[7, 8]	2227	[3592, 3593]	4451	[913, 2988]	6675	[7601, 7602]
4	[9, 10]	2228	[3594, 3595]	4452	[5914, 5729]	6676	[2209, 2044]
5	[11, 12]	2229	[3596, 1529]	4453	[5915, 4162]	6677	[2710, 234]
6	[13, 14]	2230	[3597, 478]	4454	[3798, 5916]	6678	[5619, 7603]
7	[15, 16]	2231	[3598, 1433]	4455	[5917, 3244]	6679	[38, 5252]
8	[17, 18]	2232	[3599, 3600]	4456	[5918, 3174]	6680	[4487, 2020]
9	[19, 20]	2233	[3601, 3602]	4457	[3593, 5919]	6681	[2659, 7126]
10	[21, 22]	2234	[943, 268]	4458	[4109, 5920]	6682	[7604, 181]
11	[23, 24]	2235	[3603, 3604]	4459	[2895, 361]	6683	[7139, 7488]
12	[25, 26]	2236	[3605, 3552]	4460	[5921, 1466]	6684	[7605, 5353]
13	[27, 28]	2237	[16, 3210]	4461	[5922, 3288]	6685	[2128, 7606]
14	[29, 30]	2238	[1325, 1174]	4462	[5923, 3942]	6686	[7607, 2311]
15	[31, 32]	2239	[3606, 70]	4463	[5924, 5925]	6687	[7608, 2725]
16	[33, 34]	2240	[343, 3607]	4464	[5926, 5927]	6688	[4811, 4621]
17	[35, 36]	2241	[3608, 3609]	4465	[5928, 5714]	6689	[7609, 7610]
18	[37, 38]	2242	[3610, 1456]	4466	[5929, 5762]	6690	[1888, 2000]
19	[39, 40]	2243	[3611, 3612]	4467	[1362, 1272]	6691	[4902, 2087]
20	[41, 42]	2244	[3613, 957]	4468	[1448, 5930]	6692	[728, 874]
21	[43, 44]	2245	[2954, 1286]	4469	[5931, 5932]	6693	[7473, 4906]
22	[45, 46]	2246	[3614, 3615]	4470	[3101, 5933]	6694	[7611, 5612]
23	[47, 48]	2247	[3616, 3352]	4471	[5934, 5935]	6695	[5086, 4479]
24	[49, 50]	2248	[3261, 3617]	4472	[5936, 5937]	6696	[7580, 6950]
25	[51, 52]	2249	[3618, 1118]	4473	[3683, 5938]	6697	[7612, 5588]
26	[53, 54]	2250	[3619, 1058]	4474	[5939, 5940]	6698	[1748, 7096]
27	[55, 56]	2251	[3620, 3621]	4475	[3610, 3956]	6699	[2595, 7613]
28	[57, 58]	2252	[3012, 3622]	4476	[5941, 4122]	6700	[2495, 7614]
29	[59, 60]	2253	[3623, 367]	4477	[5942, 5943]	6701	[7073, 5519]
30	[61, 62]	2254	[1077, 1296]	4478	[5944, 3404]	6702	[145, 7615]
31	[63, 64]	2255	[3624, 3625]	4479	[5945, 5946]	6703	[563, 4817]
32	[65, 66]	2256	[3626, 3627]	4480	[1140, 3097]	6704	[5118, 4863]
33	[67, 68]	2257	[3628, 1437]	4481	[5947, 3365]	6705	[7616, 7617]
34	[69, 70]	2258	[3629, 3630]	4482	[1287, 3694]	6706	[4407, 634]
35	[71, 72]	2259	[3631, 3632]	4483	[5948, 4194]	6707	[2380, 4748]
36	[73, 74]	2260	[3633, 3634]	4484	[5949, 5950]	6708	[5322, 7618]
37	[75, 76]	2261	[3635, 1482]	4485	[3904, 5951]	6709	[7619, 2649]
38	[77, 78]	2262	[3636, 3637]	4486	[3676, 5952]	6710	[7620, 2058]
39	[79, 80]	2263	[3638, 2915]	4487	[4063, 1336]	6711	[7621, 4720]
40	[81, 82]	2264	[3639, 3640]	4488	[3911, 266]	6712	[7220, 5502]
41	[83, 84]	2265	[3641, 1059]	4489	[5953, 1129]	6713	[5465, 2483]
42	[85, 86]	2266	[3642, 24]	4490	[5954, 5955]	6714	[7622, 7623]

43	[87, 88]	2267	[3643, 3144]	4491	[1046, 5919]	6715	[7624, 243]
44	[89, 90]	2268	[3644, 1174]	4492	[5956, 5957]	6716	[5463, 5552]
45	[91, 92]	2269	[3645, 3646]	4493	[5943, 3848]	6717	[7625, 6929]
46	[93, 94]	2270	[1620, 3647]	4494	[404, 5958]	6718	[7354, 5306]
47	[95, 96]	2271	[3648, 3649]	4495	[5959, 5892]	6719	[5624, 1669]
48	[97, 98]	2272	[1213, 446]	4496	[5960, 5735]	6720	[7626, 5072]
49	[99, 100]	2273	[3650, 280]	4497	[5961, 5824]	6721	[5060, 4271]
50	[101, 102]	2274	[3651, 3652]	4498	[5962, 3421]	6722	[2683, 1777]
51	[103, 104]	2275	[3653, 3654]	4499	[5963, 5964]	6723	[7177, 5238]
52	[105, 106]	2276	[3655, 3656]	4500	[474, 1294]	6724	[219, 4665]
53	[107, 108]	2277	[3455, 3657]	4501	[298, 5965]	6725	[2530, 2330]
54	[109, 110]	2278	[3658, 1099]	4502	[5966, 5967]	6726	[2637, 4965]
55	[111, 103]	2279	[3659, 3660]	4503	[5968, 5969]	6727	[7135, 5647]
56	[112, 113]	2280	[3661, 1599]	4504	[5970, 2973]	6728	[5140, 4467]
57	[114, 115]	2281	[3662, 2899]	4505	[5971, 1305]	6729	[5270, 5538]
58	[116, 117]	2282	[3663, 3664]	4506	[5733, 5972]	6730	[7627, 180]
59	[118, 119]	2283	[18, 3665]	4507	[5973, 1370]	6731	[7628, 5083]
60	[120, 121]	2284	[3666, 1443]	4508	[5974, 5975]	6732	[2738, 4598]
61	[122, 123]	2285	[3667, 3546]	4509	[3243, 5976]	6733	[2286, 2713]
62	[124, 125]	2286	[3668, 3669]	4510	[5977, 3355]	6734	[7629, 1690]
63	[126, 127]	2287	[3670, 3671]	4511	[5978, 953]	6735	[523, 7398]
64	[128, 129]	2288	[1637, 1382]	4512	[3009, 5979]	6736	[5254, 2462]
65	[130, 131]	2289	[3460, 3672]	4513	[5980, 3428]	6737	[7630, 7631]
66	[132, 133]	2290	[4, 3194]	4514	[5981, 3134]	6738	[7632, 7633]
67	[134, 135]	2291	[2958, 3673]	4515	[5982, 113]	6739	[7634, 7602]
68	[136, 137]	2292	[3674, 3675]	4516	[5715, 5792]	6740	[7623, 5290]
69	[138, 139]	2293	[3676, 374]	4517	[5983, 5984]	6741	[7635, 1953]
70	[140, 141]	2294	[293, 3677]	4518	[5730, 5985]	6742	[4652, 2698]
71	[142, 143]	2295	[3678, 1496]	4519	[5986, 3370]	6743	[7636, 4721]
72	[144, 145]	2296	[3679, 3680]	4520	[5987, 3915]	6744	[7528, 2213]
73	[146, 147]	2297	[3681, 3682]	4521	[3809, 5827]	6745	[7637, 183]
74	[148, 149]	2298	[1000, 3182]	4522	[1536, 3807]	6746	[6963, 4753]
75	[150, 151]	2299	[3683, 3684]	4523	[5988, 285]	6747	[7638, 7639]
76	[152, 153]	2300	[3685, 962]	4524	[5989, 5990]	6748	[713, 7144]
77	[154, 155]	2301	[1327, 3356]	4525	[5991, 5992]	6749	[7640, 527]
78	[156, 157]	2302	[3686, 1338]	4526	[5939, 3120]	6750	[7641, 7332]
79	[158, 159]	2303	[3687, 3339]	4527	[18, 5766]	6751	[4997, 7118]
80	[160, 161]	2304	[3688, 3689]	4528	[3210, 3932]	6752	[5335, 2318]
81	[162, 163]	2305	[3690, 3646]	4529	[3740, 1019]	6753	[7642, 7038]
82	[164, 165]	2306	[3468, 3691]	4530	[5993, 5994]	6754	[7643, 4880]
83	[166, 167]	2307	[3692, 3693]	4531	[3995, 5995]	6755	[7644, 801]
84	[168, 169]	2308	[3442, 3694]	4532	[5996, 5997]	6756	[7468, 2522]
85	[170, 171]	2309	[3695, 1507]	4533	[3905, 2872]	6757	[7645, 7257]
86	[172, 173]	2310	[3696, 3697]	4534	[5998, 5999]	6758	[2694, 7131]

87	[174, 175]	2311	[3523, 3698]	4535	[3960, 3922]	6759	[2698, 790]
88	[176, 177]	2312	[3699, 261]	4536	[3962, 6000]	6760	[7149, 2491]
89	[178, 179]	2313	[3700, 3701]	4537	[6001, 1245]	6761	[657, 7237]
90	[180, 181]	2314	[2842, 3702]	4538	[252, 5759]	6762	[2114, 7290]
91	[182, 183]	2315	[3213, 3703]	4539	[3446, 4204]	6763	[7646, 7647]
92	[184, 185]	2316	[3704, 270]	4540	[6002, 2869]	6764	[5237, 7178]
93	[186, 187]	2317	[3705, 2874]	4541	[6003, 5747]	6765	[7648, 1940]
94	[188, 189]	2318	[3706, 1513]	4542	[2956, 6004]	6766	[5255, 1781]
95	[190, 191]	2319	[2829, 3707]	4543	[3557, 3699]	6767	[2633, 2573]
96	[192, 193]	2320	[3708, 2802]	4544	[6005, 3588]	6768	[4567, 7096]
97	[194, 195]	2321	[3709, 3710]	4545	[6006, 3612]	6769	[4609, 7614]
98	[196, 197]	2322	[3711, 3712]	4546	[6007, 458]	6770	[629, 2482]
99	[198, 199]	2323	[3713, 3714]	4547	[4152, 3452]	6771	[7649, 5400]
100	[200, 201]	2324	[3715, 3716]	4548	[6008, 1458]	6772	[5174, 4789]
101	[202, 203]	2325	[3717, 3005]	4549	[3967, 1112]	6773	[2531, 6969]
102	[204, 205]	2326	[3718, 1568]	4550	[6009, 6010]	6774	[7650, 7651]
103	[206, 207]	2327	[1069, 3719]	4551	[4096, 1344]	6775	[1758, 7384]
104	[208, 53]	2328	[3720, 1484]	4552	[6011, 3812]	6776	[7652, 7167]
105	[209, 210]	2329	[3721, 3722]	4553	[6012, 73]	6777	[4820, 4731]
106	[211, 212]	2330	[3641, 3723]	4554	[2830, 4070]	6778	[674, 4736]
107	[213, 214]	2331	[1525, 3724]	4555	[6013, 6014]	6779	[558, 6919]
108	[215, 216]	2332	[3725, 3256]	4556	[6015, 6016]	6780	[1929, 5637]
109	[217, 218]	2333	[3726, 3727]	4557	[83, 6017]	6781	[7653, 2570]
110	[173, 219]	2334	[2799, 973]	4558	[6018, 6019]	6782	[7654, 632]
111	[220, 221]	2335	[3700, 3728]	4559	[6020, 403]	6783	[7650, 5543]
112	[222, 223]	2336	[3729, 3730]	4560	[6021, 1418]	6784	[5464, 7323]
113	[224, 225]	2337	[3731, 3021]	4561	[6022, 1595]	6785	[7428, 2175]
114	[226, 227]	2338	[3732, 308]	4562	[6023, 3239]	6786	[7446, 7556]
115	[228, 229]	2339	[3733, 3734]	4563	[4190, 6024]	6787	[7655, 7656]
116	[230, 231]	2340	[1129, 3735]	4564	[458, 1335]	6788	[4375, 7657]
117	[232, 233]	2341	[2900, 3647]	4565	[6025, 6026]	6789	[7330, 7658]
118	[234, 235]	2342	[94, 1367]	4566	[3794, 1098]	6790	[208, 2684]
119	[236, 213]	2343	[3736, 3737]	4567	[5807, 6027]	6791	[5461, 7603]
120	[237, 238]	2344	[1491, 3083]	4568	[2914, 940]	6792	[4253, 7450]
121	[239, 240]	2345	[3311, 3738]	4569	[4026, 6028]	6793	[2297, 2056]
122	[241, 242]	2346	[3739, 320]	4570	[5681, 6029]	6794	[7659, 6965]
123	[243, 244]	2347	[3740, 1253]	4571	[6030, 6031]	6795	[4414, 783]
124	[245, 231]	2348	[3741, 3187]	4572	[6032, 6033]	6796	[7660, 548]
125	[246, 247]	2349	[3742, 3743]	4573	[3488, 6034]	6797	[7106, 7661]
126	[248, 249]	2350	[1560, 1230]	4574	[6035, 1563]	6798	[7662, 7161]
127	[250, 251]	2351	[3744, 3294]	4575	[6036, 408]	6799	[5102, 7559]
128	[252, 253]	2352	[3745, 3746]	4576	[928, 3584]	6800	[7663, 5636]
129	[254, 255]	2353	[3747, 1581]	4577	[6037, 6038]	6801	[5609, 781]
130	[256, 257]	2354	[968, 30]	4578	[110, 6039]	6802	[4232, 7360]

131	[258, 259]	2355	[3748, 3749]	4579	[6040, 3601]	6803	[7664, 7665]
132	[260, 261]	2356	[3750, 3746]	4580	[6008, 4172]	6804	[1808, 4511]
133	[262, 263]	2357	[3751, 3752]	4581	[6041, 6042]	6805	[1701, 5217]
134	[264, 265]	2358	[3753, 399]	4582	[6043, 393]	6806	[7666, 7667]
135	[266, 267]	2359	[3754, 77]	4583	[1079, 6044]	6807	[5352, 7668]
136	[86, 268]	2360	[3755, 3756]	4584	[5980, 6045]	6808	[7669, 7479]
137	[269, 270]	2361	[3757, 3684]	4585	[965, 6046]	6809	[4584, 5263]
138	[271, 272]	2362	[3758, 3122]	4586	[6011, 1201]	6810	[7670, 7671]
139	[273, 274]	2363	[3321, 1147]	4587	[2865, 6047]	6811	[2289, 7672]
140	[275, 276]	2364	[3759, 3760]	4588	[6048, 6049]	6812	[2556, 4623]
141	[277, 278]	2365	[3752, 374]	4589	[5829, 1251]	6813	[7673, 5355]
142	[109, 279]	2366	[3761, 3762]	4590	[6050, 5756]	6814	[7634, 7674]
143	[280, 281]	2367	[3763, 3764]	4591	[6051, 6052]	6815	[7434, 7675]
144	[282, 283]	2368	[3294, 3765]	4592	[1187, 6053]	6816	[7676, 5344]
145	[284, 285]	2369	[3193, 3766]	4593	[6054, 6055]	6817	[7677, 5288]
146	[286, 253]	2370	[3767, 3140]	4594	[6056, 6057]	6818	[5607, 2465]
147	[287, 288]	2371	[3768, 3219]	4595	[3834, 412]	6819	[2391, 4493]
148	[289, 290]	2372	[3769, 3770]	4596	[6058, 3135]	6820	[7678, 4242]
149	[291, 292]	2373	[67, 1182]	4597	[333, 6059]	6821	[7298, 5337]
150	[293, 294]	2374	[2896, 1465]	4598	[6060, 6061]	6822	[4367, 4608]
151	[295, 296]	2375	[3771, 3772]	4599	[4045, 5950]	6823	[7679, 7680]
152	[297, 298]	2376	[2828, 3773]	4600	[6062, 248]	6824	[7681, 2212]
153	[299, 300]	2377	[3774, 395]	4601	[6063, 2798]	6825	[7682, 7683]
154	[301, 302]	2378	[3775, 2979]	4602	[6064, 1549]	6826	[4957, 5594]
155	[303, 304]	2379	[3776, 3562]	4603	[6065, 6066]	6827	[7684, 672]
156	[305, 306]	2380	[3777, 2880]	4604	[6067, 5905]	6828	[5577, 5226]
157	[307, 308]	2381	[3107, 349]	4605	[6068, 3738]	6829	[7685, 7686]
158	[309, 310]	2382	[3778, 351]	4606	[6069, 6070]	6830	[1756, 1872]
159	[311, 312]	2383	[3779, 3780]	4607	[5958, 110]	6831	[738, 2157]
160	[313, 314]	2384	[3781, 3664]	4608	[6071, 6072]	6832	[127, 7687]
161	[315, 316]	2385	[3782, 3783]	4609	[6073, 5891]	6833	[7359, 4233]
162	[317, 318]	2386	[3784, 1633]	4610	[1314, 6074]	6834	[7688, 7689]
163	[22, 319]	2387	[3785, 3786]	4611	[3459, 6075]	6835	[2196, 2171]
164	[320, 321]	2388	[3787, 1164]	4612	[6076, 6077]	6836	[7690, 7691]
165	[322, 323]	2389	[3343, 3788]	4613	[3001, 103]	6837	[7458, 5283]
166	[324, 325]	2390	[3789, 3790]	4614	[5953, 6078]	6838	[7510, 7692]
167	[326, 327]	2391	[3791, 3263]	4615	[6042, 6079]	6839	[7554, 7693]
168	[328, 329]	2392	[1405, 2783]	4616	[3103, 450]	6840	[7694, 7695]
169	[330, 331]	2393	[3792, 2784]	4617	[5849, 4000]	6841	[5161, 2389]
170	[332, 333]	2394	[3793, 3794]	4618	[3936, 6080]	6842	[4837, 7696]
171	[334, 335]	2395	[3795, 441]	4619	[6043, 6081]	6843	[4618, 5026]
172	[336, 337]	2396	[3796, 1419]	4620	[3553, 6082]	6844	[7697, 7550]
173	[338, 74]	2397	[3422, 3797]	4621	[6083, 6084]	6845	[4315, 7698]
174	[339, 340]	2398	[3798, 3799]	4622	[6085, 6086]	6846	[7699, 7700]

175	[341, 342]	2399	[3800, 3801]	4623	[3473, 6087]	6847	[7701, 7702]
176	[343, 344]	2400	[3802, 88]	4624	[6088, 5743]	6848	[7032, 4548]
177	[329, 345]	2401	[3803, 3804]	4625	[3783, 1582]	6849	[7703, 5406]
178	[346, 78]	2402	[3805, 3806]	4626	[6089, 931]	6850	[7477, 859]
179	[347, 348]	2403	[3807, 3808]	4627	[6090, 3697]	6851	[4927, 7262]
180	[349, 350]	2404	[3809, 3156]	4628	[6091, 1547]	6852	[5163, 5313]
181	[351, 352]	2405	[3810, 2848]	4629	[6092, 302]	6853	[7310, 5217]
182	[353, 354]	2406	[3811, 913]	4630	[6093, 1445]	6854	[490, 4358]
183	[355, 356]	2407	[3812, 3813]	4631	[6094, 6095]	6855	[1879, 2730]
184	[357, 90]	2408	[3814, 1028]	4632	[6096, 6097]	6856	[5201, 7326]
185	[358, 359]	2409	[3312, 322]	4633	[6098, 1644]	6857	[7704, 5525]
186	[360, 361]	2410	[1305, 3815]	4634	[6099, 3402]	6858	[4759, 4318]
187	[362, 363]	2411	[3466, 3138]	4635	[4049, 6077]	6859	[172, 2484]
188	[364, 365]	2412	[3816, 3817]	4636	[6100, 6101]	6860	[7705, 7132]
189	[366, 367]	2413	[3818, 3819]	4637	[6102, 6103]	6861	[7706, 2205]
190	[368, 369]	2414	[3820, 3821]	4638	[6104, 6105]	6862	[7707, 7608]
191	[370, 371]	2415	[3822, 3439]	4639	[3661, 3934]	6863	[7708, 132]
192	[372, 373]	2416	[3823, 3824]	4640	[6106, 6103]	6864	[7709, 5339]
193	[374, 375]	2417	[3118, 3654]	4641	[3075, 6107]	6865	[7710, 5229]
194	[376, 377]	2418	[947, 3825]	4642	[6108, 469]	6866	[2163, 7441]
195	[378, 379]	2419	[1423, 3826]	4643	[6109, 6110]	6867	[5483, 7051]
196	[380, 381]	2420	[3827, 3828]	4644	[1530, 1442]	6868	[7711, 7161]
197	[382, 383]	2421	[3829, 3830]	4645	[1508, 462]	6869	[2561, 4511]
198	[384, 385]	2422	[3831, 1120]	4646	[6111, 3565]	6870	[7712, 2034]
199	[386, 387]	2423	[3832, 1245]	4647	[6112, 5937]	6871	[4856, 5055]
200	[388, 389]	2424	[3833, 3834]	4648	[6113, 6114]	6872	[7713, 7667]
201	[390, 391]	2425	[3835, 3836]	4649	[1223, 2977]	6873	[2208, 7714]
202	[392, 393]	2426	[3837, 3602]	4650	[379, 3781]	6874	[7605, 7668]
203	[394, 395]	2427	[3838, 2972]	4651	[6115, 2914]	6875	[7715, 7462]
204	[396, 397]	2428	[3287, 3406]	4652	[3427, 6045]	6876	[5327, 7716]
205	[398, 399]	2429	[3618, 3839]	4653	[6116, 4072]	6877	[2517, 2302]
206	[400, 401]	2430	[2961, 3658]	4654	[6117, 2936]	6878	[7717, 6911]
207	[402, 403]	2431	[350, 1017]	4655	[6118, 3604]	6879	[5415, 5294]
208	[404, 109]	2432	[352, 925]	4656	[2903, 6119]	6880	[7718, 590]
209	[405, 406]	2433	[2886, 3256]	4657	[6120, 6121]	6881	[7719, 7318]
210	[407, 408]	2434	[3840, 425]	4658	[6122, 3359]	6882	[720, 2635]
211	[409, 410]	2435	[3841, 1076]	4659	[6123, 6124]	6883	[4433, 2276]
212	[411, 412]	2436	[3842, 3843]	4660	[6125, 1548]	6884	[4810, 7720]
213	[413, 414]	2437	[3844, 3845]	4661	[6126, 6127]	6885	[7133, 7721]
214	[415, 416]	2438	[3087, 424]	4662	[6128, 6129]	6886	[1958, 4381]
215	[417, 418]	2439	[3846, 3847]	4663	[6130, 1308]	6887	[7211, 7722]
216	[419, 420]	2440	[3033, 3467]	4664	[6131, 101]	6888	[7723, 1830]
217	[421, 422]	2441	[3848, 3849]	4665	[74, 3281]	6889	[7724, 2208]
218	[423, 424]	2442	[3850, 3851]	4666	[6132, 17]	6890	[7725, 2423]

219	[425, 426]	2443	[3301, 3852]	4667	[3318, 1648]	6891	[7726, 632]
220	[427, 428]	2444	[3853, 1266]	4668	[5685, 1649]	6892	[7347, 7692]
221	[429, 430]	2445	[3854, 3855]	4669	[4169, 3100]	6893	[908, 4249]
222	[431, 432]	2446	[3856, 3857]	4670	[6133, 2876]	6894	[5493, 2762]
223	[433, 434]	2447	[3858, 3859]	4671	[6134, 6000]	6895	[216, 2603]
224	[270, 435]	2448	[2908, 3418]	4672	[6135, 1122]	6896	[7727, 5559]
225	[436, 437]	2449	[3860, 3296]	4673	[1353, 6136]	6897	[7255, 7196]
226	[438, 439]	2450	[3861, 3862]	4674	[5895, 5805]	6898	[4775, 5405]
227	[440, 441]	2451	[3863, 3864]	4675	[6137, 6138]	6899	[5260, 7101]
228	[442, 443]	2452	[2960, 3865]	4676	[6139, 5985]	6900	[177, 1990]
229	[444, 445]	2453	[3866, 3529]	4677	[4028, 6140]	6901	[7728, 7729]
230	[444, 446]	2454	[3867, 3671]	4678	[5726, 3792]	6902	[4651, 7730]
231	[447, 448]	2455	[3861, 3868]	4679	[6141, 1218]	6903	[7731, 7090]
232	[449, 450]	2456	[3869, 3870]	4680	[6142, 263]	6904	[3590, 7732]
233	[451, 452]	2457	[926, 3871]	4681	[6143, 1023]	6905	[7733, 7734]
234	[453, 454]	2458	[3872, 3873]	4682	[6144, 3045]	6906	[2937, 6049]
235	[455, 456]	2459	[1411, 345]	4683	[4190, 1352]	6907	[5776, 2909]
236	[457, 458]	2460	[2982, 3874]	4684	[6145, 5682]	6908	[7735, 7736]
237	[459, 460]	2461	[3875, 3876]	4685	[6146, 6147]	6909	[7737, 17]
238	[461, 462]	2462	[3877, 2891]	4686	[6148, 1015]	6910	[7738, 1448]
239	[463, 464]	2463	[3878, 1170]	4687	[6149, 5862]	6911	[7739, 7740]
240	[465, 466]	2464	[3879, 3880]	4688	[6090, 6150]	6912	[1012, 6714]
241	[467, 468]	2465	[3479, 3881]	4689	[6139, 5731]	6913	[7741, 7742]
242	[469, 470]	2466	[2888, 2849]	4690	[6151, 6152]	6914	[5703, 6536]
243	[471, 472]	2467	[3882, 3883]	4691	[4130, 1361]	6915	[7743, 1592]
244	[473, 474]	2468	[3884, 3885]	4692	[23, 1177]	6916	[4150, 6354]
245	[339, 475]	2469	[3886, 3887]	4693	[3316, 2963]	6917	[7744, 4069]
246	[476, 477]	2470	[2964, 3888]	4694	[6153, 265]	6918	[3123, 453]
247	[478, 479]	2471	[3889, 3890]	4695	[6154, 6155]	6919	[7745, 7746]
248	[480, 481]	2472	[3891, 3892]	4696	[63, 2856]	6920	[7747, 6158]
249	[482, 483]	2473	[1159, 3185]	4697	[6156, 3848]	6921	[371, 5920]
250	[484, 485]	2474	[3238, 3893]	4698	[6157, 3863]	6922	[7748, 3403]
251	[486, 487]	2475	[3894, 3895]	4699	[6158, 6159]	6923	[7749, 6215]
252	[488, 489]	2476	[3322, 3896]	4700	[1325, 6160]	6924	[6767, 958]
253	[490, 491]	2477	[3253, 3897]	4701	[332, 6161]	6925	[3967, 6264]
254	[492, 493]	2478	[2889, 1489]	4702	[1211, 4015]	6926	[6477, 6619]
255	[494, 495]	2479	[3898, 3528]	4703	[5962, 5692]	6927	[3197, 7750]
256	[496, 61]	2480	[3899, 3900]	4704	[6162, 3498]	6928	[4120, 6514]
257	[497, 498]	2481	[3901, 323]	4705	[6163, 6164]	6929	[7751, 5771]
258	[499, 500]	2482	[1186, 2867]	4706	[6165, 6166]	6930	[1456, 3789]
259	[501, 502]	2483	[3902, 3903]	4707	[6167, 2804]	6931	[7752, 7753]
260	[503, 504]	2484	[3904, 3855]	4708	[95, 6168]	6932	[3530, 7754]
261	[505, 506]	2485	[3905, 1473]	4709	[6169, 3420]	6933	[7755, 3453]
262	[507, 508]	2486	[3906, 3907]	4710	[3752, 5952]	6934	[6405, 1035]

263	[509, 510]	2487	[3908, 3678]	4711	[4002, 3723]	6935	[7756, 1134]
264	[511, 512]	2488	[3909, 3910]	4712	[273, 299]	6936	[6264, 1514]
265	[513, 514]	2489	[360, 2896]	4713	[6170, 6171]	6937	[6854, 2875]
266	[515, 516]	2490	[3911, 3177]	4714	[6172, 3946]	6938	[7757, 7758]
267	[517, 518]	2491	[3912, 1294]	4715	[6173, 3495]	6939	[7759, 1343]
268	[519, 520]	2492	[1576, 1544]	4716	[3534, 2819]	6940	[3267, 5707]
269	[521, 522]	2493	[249, 3913]	4717	[6174, 1357]	6941	[1603, 6776]
270	[523, 524]	2494	[442, 3430]	4718	[6175, 3261]	6942	[4116, 3933]
271	[525, 526]	2495	[3914, 3915]	4719	[1269, 6176]	6943	[7760, 6823]
272	[527, 528]	2496	[3916, 3917]	4720	[1097, 6177]	6944	[422, 3774]
273	[529, 530]	2497	[3918, 3474]	4721	[1549, 436]	6945	[3054, 7761]
274	[531, 532]	2498	[3919, 3920]	4722	[3927, 6178]	6946	[5763, 7762]
275	[533, 534]	2499	[3921, 962]	4723	[3734, 1608]	6947	[7763, 7764]
276	[535, 536]	2500	[3857, 3922]	4724	[6179, 3543]	6948	[6533, 4130]
277	[537, 538]	2501	[2965, 3923]	4725	[1017, 4164]	6949	[7765, 6158]
278	[539, 157]	2502	[3924, 3925]	4726	[351, 924]	6950	[7766, 7767]
279	[540, 541]	2503	[1568, 996]	4727	[1349, 6022]	6951	[7768, 7769]
280	[542, 543]	2504	[3926, 3927]	4728	[103, 372]	6952	[7770, 6853]
281	[544, 545]	2505	[3928, 3806]	4729	[3442, 1288]	6953	[6219, 7771]
282	[546, 547]	2506	[3929, 3930]	4730	[6180, 3727]	6954	[7772, 7773]
283	[548, 549]	2507	[3931, 3932]	4731	[4018, 2891]	6955	[7774, 5959]
284	[550, 551]	2508	[3933, 3566]	4732	[6181, 6182]	6956	[6198, 1427]
285	[552, 553]	2509	[3934, 2894]	4733	[4023, 6183]	6957	[7775, 7776]
286	[554, 555]	2510	[3935, 3936]	4734	[399, 3821]	6958	[7777, 7778]
287	[556, 557]	2511	[111, 3002]	4735	[6184, 5864]	6959	[7779, 6345]
288	[558, 559]	2512	[3937, 3938]	4736	[6185, 3862]	6960	[6327, 5916]
289	[560, 561]	2513	[3939, 3539]	4737	[4020, 291]	6961	[3347, 6765]
290	[562, 563]	2514	[3940, 3941]	4738	[6186, 3166]	6962	[7780, 7781]
291	[564, 565]	2515	[3850, 3760]	4739	[6076, 1210]	6963	[3864, 333]
292	[566, 567]	2516	[113, 3942]	4740	[2976, 6187]	6964	[1004, 7782]
293	[568, 569]	2517	[1142, 3903]	4741	[5937, 6188]	6965	[7783, 7784]
294	[570, 571]	2518	[3338, 3943]	4742	[6189, 1471]	6966	[5878, 7785]
295	[572, 573]	2519	[3944, 3945]	4743	[6190, 3701]	6967	[75, 3100]
296	[574, 575]	2520	[3946, 3947]	4744	[6191, 1394]	6968	[7755, 6166]
297	[576, 577]	2521	[3154, 3948]	4745	[6192, 3208]	6969	[3794, 3658]
298	[578, 579]	2522	[3949, 3950]	4746	[3145, 6193]	6970	[1238, 5]
299	[580, 581]	2523	[3951, 3952]	4747	[6018, 6194]	6971	[4069, 328]
300	[131, 582]	2524	[3953, 3954]	4748	[3047, 5692]	6972	[1179, 6528]
301	[583, 584]	2525	[3955, 3490]	4749	[3433, 6195]	6973	[1543, 1577]
302	[585, 586]	2526	[3166, 1232]	4750	[3783, 6196]	6974	[3840, 1029]
303	[587, 588]	2527	[1455, 3956]	4751	[6197, 28]	6975	[6346, 4045]
304	[589, 590]	2528	[2987, 3572]	4752	[6198, 1244]	6976	[3411, 7786]
305	[591, 592]	2529	[3957, 3092]	4753	[6199, 912]	6977	[7787, 7788]
306	[593, 594]	2530	[367, 3794]	4754	[3305, 6200]	6978	[3692, 7789]

307	[595, 596]	2531	[3958, 3959]	4755	[6201, 1609]	6979	[7790, 5870]
308	[597, 598]	2532	[3856, 3960]	4756	[3604, 4119]	6980	[7791, 7792]
309	[599, 600]	2533	[3961, 3962]	4757	[6202, 946]	6981	[1125, 6615]
310	[601, 602]	2534	[3963, 1278]	4758	[6203, 5786]	6982	[19, 1127]
311	[603, 604]	2535	[3964, 3965]	4759	[3979, 1002]	6983	[3443, 3826]
312	[605, 606]	2536	[3966, 3967]	4760	[6204, 6205]	6984	[7793, 4196]
313	[607, 608]	2537	[3896, 3968]	4761	[6206, 5754]	6985	[6871, 2840]
314	[609, 610]	2538	[3969, 73]	4762	[6207, 6208]	6986	[7794, 6504]
315	[611, 612]	2539	[3970, 3971]	4763	[3613, 305]	6987	[5787, 5793]
316	[613, 614]	2540	[997, 3147]	4764	[3124, 454]	6988	[6342, 5802]
317	[615, 616]	2541	[3884, 3172]	4765	[6209, 3549]	6989	[7795, 3251]
318	[617, 618]	2542	[3257, 3972]	4766	[6210, 2836]	6990	[1599, 6186]
319	[44, 619]	2543	[3973, 3974]	4767	[3571, 6211]	6991	[7796, 6075]
320	[620, 621]	2544	[3202, 3975]	4768	[6212, 3791]	6992	[3125, 7797]
321	[588, 622]	2545	[3976, 3977]	4769	[3899, 257]	6993	[3832, 2970]
322	[623, 624]	2546	[3978, 3979]	4770	[6213, 1185]	6994	[4021, 292]
323	[625, 626]	2547	[3980, 1429]	4771	[6214, 6215]	6995	[7798, 6164]
324	[627, 512]	2548	[3981, 3982]	4772	[6216, 1535]	6996	[6708, 86]
325	[628, 629]	2549	[3983, 259]	4773	[6217, 4078]	6997	[7799, 331]
326	[630, 631]	2550	[3984, 3985]	4774	[464, 5698]	6998	[6371, 7800]
327	[632, 633]	2551	[3986, 3557]	4775	[373, 26]	6999	[7801, 1233]
328	[634, 635]	2552	[3987, 3076]	4776	[6005, 915]	7000	[7802, 1307]
329	[636, 637]	2553	[3988, 3298]	4777	[2776, 3084]	7001	[2813, 959]
330	[638, 639]	2554	[3989, 3990]	4778	[1036, 1043]	7002	[3282, 1213]
331	[640, 641]	2555	[960, 3975]	4779	[4028, 310]	7003	[7803, 3703]
332	[642, 643]	2556	[3471, 3372]	4780	[326, 6218]	7004	[7804, 6066]
333	[644, 645]	2557	[1026, 3991]	4781	[5830, 1252]	7005	[7805, 6634]
334	[646, 647]	2558	[3804, 1248]	4782	[6219, 6080]	7006	[7806, 6489]
335	[648, 649]	2559	[3992, 3617]	4783	[6220, 1010]	7007	[7807, 1368]
336	[650, 651]	2560	[3993, 3994]	4784	[6221, 1602]	7008	[6231, 6610]
337	[652, 629]	2561	[3995, 434]	4785	[6222, 3881]	7009	[7808, 7767]
338	[653, 654]	2562	[3996, 16]	4786	[1030, 6193]	7010	[7809, 2986]
339	[655, 656]	2563	[3997, 3710]	4787	[6223, 4091]	7011	[6244, 27]
340	[657, 658]	2564	[943, 3094]	4788	[1087, 6224]	7012	[7810, 7811]
341	[659, 660]	2565	[3998, 3999]	4789	[6225, 5748]	7013	[6236, 7812]
342	[661, 662]	2566	[1513, 3492]	4790	[3063, 6226]	7014	[7813, 7814]
343	[663, 664]	2567	[384, 4000]	4791	[6227, 6228]	7015	[3231, 1125]
344	[665, 666]	2568	[3000, 4001]	4792	[6229, 988]	7016	[5822, 7815]
345	[635, 667]	2569	[4002, 1059]	4793	[2823, 1173]	7017	[7816, 3267]
346	[668, 669]	2570	[4003, 3781]	4794	[6230, 6231]	7018	[3543, 3679]
347	[670, 671]	2571	[1066, 4004]	4795	[1125, 1400]	7019	[7817, 1030]
348	[672, 673]	2572	[4005, 1208]	4796	[6232, 6233]	7020	[3304, 7818]
349	[674, 675]	2573	[3161, 4006]	4797	[6234, 6235]	7021	[7819, 7820]
350	[676, 677]	2574	[4007, 1390]	4798	[6236, 6237]	7022	[6759, 3333]

351	[678, 679]	2575	[4008, 4009]	4799	[6238, 6147]	7023	[7821, 342]
352	[680, 681]	2576	[108, 3897]	4800	[4151, 3753]	7024	[6314, 7822]
353	[682, 683]	2577	[1197, 1486]	4801	[6239, 2929]	7025	[7823, 6846]
354	[684, 685]	2578	[4010, 1632]	4802	[27, 6240]	7026	[7824, 7820]
355	[686, 687]	2579	[3221, 3863]	4803	[6241, 1542]	7027	[4210, 3913]
356	[688, 689]	2580	[4011, 4012]	4804	[6242, 6243]	7028	[7825, 3503]
357	[690, 691]	2581	[376, 4013]	4805	[6244, 6197]	7029	[912, 2987]
358	[692, 693]	2582	[4014, 4015]	4806	[6245, 1161]	7030	[7826, 1630]
359	[694, 695]	2583	[4016, 4017]	4807	[6246, 3873]	7031	[479, 5741]
360	[696, 697]	2584	[4018, 3313]	4808	[6247, 1225]	7032	[914, 3588]
361	[698, 699]	2585	[4019, 3218]	4809	[6248, 6249]	7033	[3838, 1515]
362	[700, 701]	2586	[4020, 4021]	4810	[1629, 1383]	7034	[6447, 3833]
363	[702, 703]	2587	[4022, 1547]	4811	[6250, 6251]	7035	[6821, 7827]
364	[704, 705]	2588	[431, 4023]	4812	[6252, 4150]	7036	[4191, 3013]
365	[706, 707]	2589	[3518, 3615]	4813	[1075, 1448]	7037	[6778, 3152]
366	[512, 708]	2590	[4024, 4025]	4814	[1404, 3114]	7038	[7828, 1388]
367	[514, 178]	2591	[4026, 3092]	4815	[2812, 958]	7039	[7829, 1488]
368	[709, 710]	2592	[3111, 4027]	4816	[4087, 3876]	7040	[935, 5976]
369	[711, 712]	2593	[443, 3431]	4817	[6253, 1617]	7041	[1434, 6856]
370	[713, 714]	2594	[934, 4028]	4818	[6254, 3295]	7042	[7830, 5984]
371	[715, 716]	2595	[2972, 1516]	4819	[392, 6081]	7043	[1642, 6211]
372	[221, 717]	2596	[3909, 4029]	4820	[3928, 6255]	7044	[7831, 1618]
373	[718, 719]	2597	[4030, 4031]	4821	[1054, 3032]	7045	[6697, 6296]
374	[720, 721]	2598	[4032, 4033]	4822	[1056, 6256]	7046	[7832, 7833]
375	[722, 723]	2599	[4034, 1475]	4823	[6257, 4013]	7047	[69, 6446]
376	[724, 725]	2600	[3982, 4035]	4824	[6258, 5997]	7048	[4198, 1287]
377	[726, 727]	2601	[4036, 3689]	4825	[6129, 5814]	7049	[3409, 1582]
378	[728, 729]	2602	[4037, 3306]	4826	[5936, 3081]	7050	[5778, 3221]
379	[730, 731]	2603	[418, 4038]	4827	[6259, 992]	7051	[7834, 7835]
380	[484, 732]	2604	[3687, 3943]	4828	[6260, 3601]	7052	[3195, 6546]
381	[733, 734]	2605	[4039, 4040]	4829	[3604, 3099]	7053	[6490, 3672]
382	[735, 736]	2606	[3616, 4041]	4830	[6261, 348]	7054	[7836, 448]
383	[737, 738]	2607	[4042, 4043]	4831	[6262, 276]	7055	[6570, 284]
384	[739, 740]	2608	[4044, 4045]	4832	[6263, 5935]	7056	[7837, 6374]
385	[741, 742]	2609	[1369, 3341]	4833	[1111, 6264]	7057	[6719, 3327]
386	[743, 744]	2610	[4046, 3968]	4834	[6265, 6266]	7058	[1020, 5700]
387	[745, 746]	2611	[4047, 1265]	4835	[6267, 3064]	7059	[5898, 7838]
388	[747, 748]	2612	[4048, 1337]	4836	[472, 6268]	7060	[7839, 1607]
389	[749, 750]	2613	[4049, 1210]	4837	[320, 6269]	7061	[7840, 1066]
390	[751, 752]	2614	[4050, 4051]	4838	[6270, 1185]	7062	[6410, 7841]
391	[753, 754]	2615	[4052, 4053]	4839	[3396, 3788]	7063	[1550, 437]
392	[238, 755]	2616	[4054, 4055]	4840	[3482, 6271]	7064	[3438, 6195]
393	[756, 201]	2617	[4056, 1291]	4841	[274, 300]	7065	[3679, 5757]
394	[755, 757]	2618	[4057, 4058]	4842	[1605, 1260]	7066	[3543, 3062]

395	[758, 759]	2619	[4059, 1435]	4843	[963, 1407]	7067	[6294, 6370]
396	[760, 761]	2620	[4060, 4061]	4844	[6272, 6273]	7068	[2873, 7842]
397	[762, 763]	2621	[3843, 359]	4845	[6274, 5798]	7069	[7843, 3247]
398	[764, 765]	2622	[4062, 3401]	4846	[6275, 3150]	7070	[3524, 3027]
399	[766, 767]	2623	[4063, 4048]	4847	[3319, 6276]	7071	[7844, 304]
400	[768, 769]	2624	[4064, 4065]	4848	[3785, 6277]	7072	[6185, 3868]
401	[770, 771]	2625	[4066, 2995]	4849	[1093, 6278]	7073	[6230, 3938]
402	[772, 773]	2626	[4067, 3069]	4850	[6279, 6280]	7074	[6250, 1048]
403	[774, 775]	2627	[4052, 1618]	4851	[3891, 3637]	7075	[7845, 3233]
404	[776, 173]	2628	[2999, 1280]	4852	[6281, 6282]	7076	[7846, 3158]
405	[141, 777]	2629	[3619, 4068]	4853	[3391, 4104]	7077	[7847, 464]
406	[778, 779]	2630	[4069, 4070]	4854	[6283, 6284]	7078	[6015, 6727]
407	[780, 781]	2631	[4071, 4072]	4855	[5757, 5685]	7079	[3533, 2818]
408	[782, 783]	2632	[4073, 4074]	4856	[6285, 6237]	7080	[6357, 7848]
409	[784, 785]	2633	[372, 25]	4857	[6286, 1642]	7081	[4036, 4111]
410	[786, 787]	2634	[4075, 1641]	4858	[6287, 1359]	7082	[7849, 1131]
411	[788, 789]	2635	[4076, 4077]	4859	[6288, 6289]	7083	[7850, 7851]
412	[790, 761]	2636	[4078, 414]	4860	[5745, 5691]	7084	[73, 3125]
413	[791, 792]	2637	[4079, 3859]	4861	[3390, 3492]	7085	[7852, 3674]
414	[793, 794]	2638	[4080, 4081]	4862	[3220, 3621]	7086	[7853, 7854]
415	[795, 796]	2639	[1043, 3116]	4863	[6290, 6291]	7087	[1269, 4166]
416	[797, 798]	2640	[4082, 3277]	4864	[3208, 6292]	7088	[6547, 6269]
417	[799, 800]	2641	[3093, 1052]	4865	[6293, 2785]	7089	[6094, 7855]
418	[801, 213]	2642	[1313, 4083]	4866	[6294, 1069]	7090	[7856, 7857]
419	[802, 803]	2643	[4084, 3927]	4867	[6166, 3454]	7091	[6531, 460]
420	[804, 805]	2644	[4085, 1437]	4868	[6295, 6296]	7092	[1037, 3245]
421	[37, 755]	2645	[4086, 452]	4869	[6297, 6298]	7093	[7858, 3595]
422	[806, 758]	2646	[4087, 4088]	4870	[3990, 5933]	7094	[5865, 1615]
423	[807, 214]	2647	[4089, 1493]	4871	[279, 6039]	7095	[7859, 1365]
424	[808, 809]	2648	[4090, 3849]	4872	[6299, 1426]	7096	[7860, 7861]
425	[810, 811]	2649	[4091, 4092]	4873	[77, 6300]	7097	[6027, 383]
426	[812, 813]	2650	[4093, 4027]	4874	[2797, 6301]	7098	[7862, 1526]
427	[814, 815]	2651	[4094, 4095]	4875	[3255, 1077]	7099	[7863, 1114]
428	[816, 817]	2652	[4096, 4097]	4876	[6302, 3321]	7100	[5903, 1011]
429	[818, 819]	2653	[4098, 3745]	4877	[6303, 4207]	7101	[7864, 2798]
430	[820, 821]	2654	[4099, 1517]	4878	[6304, 1219]	7102	[3919, 3919]
431	[822, 823]	2655	[4100, 3283]	4879	[3314, 3985]	7103	[7865, 7866]
432	[824, 825]	2656	[4101, 4102]	4880	[6305, 6282]	7104	[7867, 6017]
433	[826, 827]	2657	[2968, 4103]	4881	[3896, 6306]	7105	[7868, 7869]
434	[828, 829]	2658	[3492, 4104]	4882	[6307, 5767]	7106	[7870, 7871]
435	[522, 830]	2659	[1213, 445]	4883	[6308, 6309]	7107	[6426, 428]
436	[831, 832]	2660	[1342, 3965]	4884	[99, 6310]	7108	[2929, 7818]
437	[833, 834]	2661	[3269, 2967]	4885	[1049, 6311]	7109	[6036, 7872]
438	[835, 836]	2662	[4105, 4106]	4886	[6312, 6313]	7110	[6259, 6021]

439	[837, 838]	2663	[4107, 3941]	4887	[6314, 6315]	7111	[7873, 3698]
440	[839, 604]	2664	[4108, 3220]	4888	[6316, 6317]	7112	[6387, 6121]
441	[840, 841]	2665	[370, 4109]	4889	[6318, 6097]	7113	[2885, 3419]
442	[842, 843]	2666	[4110, 4091]	4890	[6319, 6320]	7114	[7874, 5886]
443	[844, 845]	2667	[3688, 4111]	4891	[5838, 3057]	7115	[1181, 68]
444	[846, 847]	2668	[1180, 4112]	4892	[987, 4099]	7116	[3747, 1460]
445	[848, 849]	2669	[4113, 4114]	4893	[6321, 1353]	7117	[3245, 1257]
446	[850, 851]	2670	[4115, 4116]	4894	[2949, 6322]	7118	[6819, 5734]
447	[852, 853]	2671	[4117, 3501]	4895	[3268, 5736]	7119	[7875, 3346]
448	[854, 855]	2672	[4118, 451]	4896	[6323, 344]	7120	[7876, 1597]
449	[856, 857]	2673	[423, 3088]	4897	[6324, 6325]	7121	[3031, 7877]
450	[858, 859]	2674	[3098, 4119]	4898	[6326, 397]	7122	[7878, 7879]
451	[860, 861]	2675	[4120, 298]	4899	[6327, 3799]	7123	[7880, 7881]
452	[862, 863]	2676	[4121, 4122]	4900	[6328, 115]	7124	[931, 1485]
453	[864, 865]	2677	[4123, 1123]	4901	[6329, 3991]	7125	[7882, 7883]
454	[866, 867]	2678	[4124, 1082]	4902	[6330, 6331]	7126	[7884, 7753]
455	[868, 869]	2679	[3711, 3176]	4903	[6332, 3925]	7127	[7885, 7886]
456	[870, 871]	2680	[4125, 1075]	4904	[265, 3623]	7128	[266, 7887]
457	[872, 873]	2681	[4126, 4127]	4905	[6333, 382]	7129	[474, 7888]
458	[874, 875]	2682	[3198, 4128]	4906	[3375, 6322]	7130	[2861, 3384]
459	[876, 877]	2683	[265, 366]	4907	[6334, 5854]	7131	[7889, 4069]
460	[878, 879]	2684	[925, 1107]	4908	[4123, 1007]	7132	[7890, 7891]
461	[880, 881]	2685	[4129, 4130]	4909	[6335, 6336]	7133	[3262, 6743]
462	[882, 883]	2686	[4131, 4132]	4910	[6337, 4078]	7134	[1070, 6750]
463	[791, 884]	2687	[2816, 4133]	4911	[1116, 6338]	7135	[7817, 3145]
464	[885, 886]	2688	[4134, 4135]	4912	[6339, 6340]	7136	[6695, 5963]
465	[887, 491]	2689	[4136, 3518]	4913	[2844, 6341]	7137	[7892, 418]
466	[888, 889]	2690	[4137, 4138]	4914	[6342, 3622]	7138	[6835, 5907]
467	[890, 541]	2691	[415, 4139]	4915	[475, 3417]	7139	[2796, 6535]
468	[891, 892]	2692	[4140, 4141]	4916	[6343, 2904]	7140	[7854, 5774]
469	[754, 893]	2693	[1147, 3896]	4917	[3802, 4220]	7141	[2926, 7769]
470	[894, 895]	2694	[1335, 3780]	4918	[6344, 6345]	7142	[7893, 1391]
471	[896, 897]	2695	[4142, 4143]	4919	[1505, 3629]	7143	[6374, 3777]
472	[898, 899]	2696	[4144, 4145]	4920	[6346, 5949]	7144	[7894, 1026]
473	[900, 901]	2697	[3762, 2998]	4921	[3222, 332]	7145	[4082, 7895]
474	[902, 903]	2698	[4146, 3625]	4922	[5959, 1371]	7146	[7896, 3449]
475	[142, 904]	2699	[3245, 4147]	4923	[6347, 953]	7147	[7897, 5790]
476	[905, 906]	2700	[4148, 4149]	4924	[6182, 5814]	7148	[4143, 5979]
477	[534, 907]	2701	[4150, 4151]	4925	[6348, 3091]	7149	[3423, 1095]
478	[908, 909]	2702	[4152, 3299]	4926	[6349, 6350]	7150	[314, 7898]
479	[910, 911]	2703	[1122, 3662]	4927	[5699, 1021]	7151	[7899, 4161]
480	[912, 913]	2704	[2901, 4153]	4928	[6240, 6351]	7152	[7900, 6171]
481	[914, 915]	2705	[4154, 4155]	4929	[6352, 3883]	7153	[6256, 1652]
482	[916, 449]	2706	[1397, 4156]	4930	[6353, 6194]	7154	[7901, 7902]

483	[917, 451]	2707	[3800, 2905]	4931	[3935, 6219]	7155	[7903, 1392]
484	[918, 919]	2708	[4157, 80]	4932	[6354, 3753]	7156	[1267, 7904]
485	[920, 921]	2709	[1247, 4158]	4933	[6355, 1180]	7157	[7905, 6088]
486	[922, 923]	2710	[4159, 4160]	4934	[5752, 1591]	7158	[1038, 6475]
487	[924, 925]	2711	[4161, 4162]	4935	[6120, 6356]	7159	[7906, 3676]
488	[926, 927]	2712	[4163, 4164]	4936	[6357, 6358]	7160	[6582, 7907]
489	[928, 929]	2713	[4165, 1565]	4937	[6359, 3376]	7161	[7908, 7909]
490	[930, 931]	2714	[3669, 4166]	4938	[6360, 1350]	7162	[5960, 3268]
491	[932, 933]	2715	[3162, 4167]	4939	[3605, 6361]	7163	[2771, 7910]
492	[934, 309]	2716	[4128, 4168]	4940	[6362, 6363]	7164	[6157, 3222]
493	[935, 936]	2717	[4169, 76]	4941	[3674, 124]	7165	[7911, 7912]
494	[937, 938]	2718	[4170, 1410]	4942	[3793, 2961]	7166	[7849, 1198]
495	[939, 940]	2719	[967, 2772]	4943	[6364, 3103]	7167	[7913, 7914]
496	[941, 942]	2720	[4171, 2989]	4944	[5817, 1292]	7168	[3757, 5938]
497	[85, 943]	2721	[4172, 4173]	4945	[4160, 3907]	7169	[7915, 7916]
498	[944, 945]	2722	[4174, 4175]	4946	[6365, 3635]	7170	[7917, 4194]
499	[946, 947]	2723	[4176, 4177]	4947	[6218, 5848]	7171	[6434, 3211]
500	[948, 949]	2724	[4178, 1322]	4948	[6366, 4025]	7172	[7863, 7918]
501	[950, 325]	2725	[4179, 4180]	4949	[6367, 2852]	7173	[5910, 7919]
502	[951, 952]	2726	[435, 309]	4950	[3720, 3108]	7174	[7920, 7854]
503	[953, 954]	2727	[4181, 1238]	4951	[6368, 376]	7175	[1256, 3003]
504	[955, 956]	2728	[1403, 1041]	4952	[6369, 5946]	7176	[4071, 7921]
505	[957, 306]	2729	[114, 4182]	4953	[5827, 3157]	7177	[6431, 318]
506	[958, 959]	2730	[4183, 4184]	4954	[6168, 3437]	7178	[7922, 1417]
507	[960, 961]	2731	[4185, 3614]	4955	[1068, 6370]	7179	[7923, 6372]
508	[962, 963]	2732	[3006, 3616]	4956	[6371, 6372]	7180	[7924, 3699]
509	[964, 965]	2733	[4186, 4187]	4957	[1460, 6373]	7181	[7738, 1346]
510	[966, 967]	2734	[4188, 1464]	4958	[5684, 6374]	7182	[7925, 7926]
511	[968, 969]	2735	[380, 3407]	4959	[5868, 4132]	7183	[3010, 3253]
512	[970, 971]	2736	[4189, 4190]	4960	[3680, 6375]	7184	[6378, 7927]
513	[972, 346]	2737	[3450, 4191]	4961	[6376, 6377]	7185	[6209, 1552]
514	[973, 974]	2738	[4192, 4193]	4962	[6378, 5883]	7186	[7928, 3649]
515	[975, 976]	2739	[4194, 3954]	4963	[1537, 3808]	7187	[3923, 4145]
516	[977, 978]	2740	[4195, 4196]	4964	[6052, 109]	7188	[7929, 6686]
517	[979, 980]	2741	[1082, 4197]	4965	[6379, 6380]	7189	[6760, 6850]
518	[981, 982]	2742	[3703, 3800]	4966	[3385, 2856]	7190	[7930, 6644]
519	[983, 984]	2743	[4198, 3442]	4967	[6381, 1146]	7191	[7931, 3511]
520	[985, 986]	2744	[3424, 4199]	4968	[369, 1033]	7192	[7932, 6552]
521	[987, 988]	2745	[4200, 2870]	4969	[1201, 5839]	7193	[7933, 6136]
522	[989, 990]	2746	[4201, 3847]	4970	[6382, 1076]	7194	[5719, 3626]
523	[991, 992]	2747	[4202, 3673]	4971	[3151, 4108]	7195	[7934, 6608]
524	[993, 994]	2748	[4203, 4204]	4972	[6083, 6383]	7196	[7935, 3483]
525	[995, 996]	2749	[4205, 3530]	4973	[6384, 5957]	7197	[7936, 3717]
526	[997, 998]	2750	[4206, 4207]	4974	[6385, 6386]	7198	[7937, 7938]

527	[999, 1000]	2751	[3377, 3635]	4975	[6387, 6356]	7199	[1414, 2865]
528	[1001, 1002]	2752	[4208, 4197]	4976	[6388, 4128]	7200	[1594, 1249]
529	[1003, 1004]	2753	[4209, 1223]	4977	[2775, 3083]	7201	[7939, 5897]
530	[1005, 1006]	2754	[248, 4210]	4978	[5808, 6074]	7202	[3682, 3737]
531	[1007, 1008]	2755	[1457, 4172]	4979	[6389, 4083]	7203	[108, 6894]
532	[1009, 433]	2756	[1337, 952]	4980	[3146, 998]	7204	[5845, 6547]
533	[1010, 1011]	2757	[1346, 1449]	4981	[3116, 4147]	7205	[7940, 7941]
534	[1012, 1013]	2758	[1348, 1590]	4982	[6390, 2842]	7206	[1513, 3391]
535	[1014, 1015]	2759	[2839, 4211]	4983	[5901, 6354]	7207	[7942, 7943]
536	[1016, 1017]	2760	[4212, 262]	4984	[3081, 6188]	7208	[7944, 7945]
537	[1018, 1019]	2761	[4213, 340]	4985	[6391, 6392]	7209	[3890, 3583]
538	[1020, 1021]	2762	[4214, 123]	4986	[3297, 6393]	7210	[3811, 2987]
539	[1022, 1023]	2763	[104, 373]	4987	[6394, 1312]	7211	[7768, 2927]
540	[1024, 934]	2764	[64, 2857]	4988	[6395, 6396]	7212	[7946, 5888]
541	[1025, 1026]	2765	[2802, 1188]	4989	[6397, 6310]	7213	[7947, 6760]
542	[1027, 1028]	2766	[4215, 3055]	4990	[4079, 6398]	7214	[2864, 1415]
543	[1029, 426]	2767	[4216, 4217]	4991	[6399, 3917]	7215	[6515, 6476]
544	[1030, 1031]	2768	[3158, 4218]	4992	[6400, 4092]	7216	[7948, 7868]
545	[1032, 1033]	2769	[4219, 3845]	4993	[2866, 6401]	7217	[1375, 5766]
546	[1034, 1035]	2770	[4220, 1169]	4994	[4070, 329]	7218	[1459, 3484]
547	[1036, 1037]	2771	[4221, 769]	4995	[5871, 6402]	7219	[3721, 7949]
548	[1038, 1039]	2772	[4222, 161]	4996	[6334, 6403]	7220	[1285, 3019]
549	[1040, 1041]	2773	[4223, 2471]	4997	[3005, 401]	7221	[7950, 7951]
550	[1042, 1043]	2774	[4224, 2410]	4998	[6404, 3380]	7222	[7952, 7953]
551	[1044, 1045]	2775	[167, 2452]	4999	[925, 2846]	7223	[3941, 2948]
552	[1046, 1047]	2776	[4225, 4226]	5000	[6234, 3946]	7224	[6685, 7954]
553	[1048, 1049]	2777	[2576, 4227]	5001	[6128, 6182]	7225	[7955, 7956]
554	[1050, 369]	2778	[4228, 2671]	5002	[335, 3225]	7226	[7957, 3041]
555	[1051, 1052]	2779	[4229, 4230]	5003	[3142, 3967]	7227	[7958, 376]
556	[1053, 1054]	2780	[4231, 185]	5004	[2915, 6034]	7228	[7959, 2807]
557	[1055, 1056]	2781	[4232, 4233]	5005	[1135, 5932]	7229	[7814, 7960]
558	[1057, 1058]	2782	[4234, 4235]	5006	[2894, 1231]	7230	[5755, 7961]
559	[1059, 1060]	2783	[2445, 4236]	5007	[6405, 6406]	7231	[7962, 4032]
560	[1061, 1062]	2784	[4237, 4238]	5008	[6407, 1332]	7232	[7963, 1297]
561	[391, 1063]	2785	[1924, 4239]	5009	[1182, 3573]	7233	[1302, 6663]
562	[1064, 1065]	2786	[4240, 2140]	5010	[5708, 3792]	7234	[6073, 1105]
563	[1066, 1067]	2787	[4241, 4242]	5011	[6408, 6409]	7235	[3957, 6028]
564	[1068, 1069]	2788	[4243, 4244]	5012	[6410, 1327]	7236	[3665, 3215]
565	[1070, 1071]	2789	[218, 4245]	5013	[6411, 2969]	7237	[7964, 7965]
566	[1072, 1073]	2790	[4246, 4247]	5014	[6412, 6413]	7238	[7966, 7967]
567	[1074, 1075]	2791	[2549, 2600]	5015	[6414, 1066]	7239	[1313, 7968]
568	[1076, 1077]	2792	[4248, 4249]	5016	[6415, 3174]	7240	[7969, 5921]
569	[1078, 1079]	2793	[4250, 4251]	5017	[6416, 3340]	7241	[933, 6243]
570	[324, 1080]	2794	[4252, 2449]	5018	[6417, 6418]	7242	[3665, 3095]

571	[1081, 1082]	2795	[2675, 2121]	5019	[6419, 6420]	7243	[5894, 3452]
572	[1083, 1084]	2796	[4253, 4254]	5020	[6421, 6422]	7244	[7970, 7971]
573	[1085, 1086]	2797	[2488, 2288]	5021	[6241, 2975]	7245	[6117, 7972]
574	[1087, 1088]	2798	[4255, 2509]	5022	[6423, 6031]	7246	[7973, 3999]
575	[1089, 1090]	2799	[4256, 847]	5023	[6424, 1373]	7247	[6354, 398]
576	[1091, 1092]	2800	[511, 2450]	5024	[6425, 6426]	7248	[7974, 7975]
577	[1093, 1064]	2801	[2579, 536]	5025	[3417, 6427]	7249	[3643, 3051]
578	[1094, 1095]	2802	[689, 4257]	5026	[3002, 372]	7250	[7976, 3962]
579	[1096, 1097]	2803	[1878, 4258]	5027	[6428, 6429]	7251	[3458, 1647]
580	[1098, 1099]	2804	[1762, 754]	5028	[1014, 6430]	7252	[3432, 6365]
581	[1100, 1101]	2805	[817, 894]	5029	[3074, 5735]	7253	[3044, 6896]
582	[1102, 1103]	2806	[4259, 4260]	5030	[6431, 1199]	7254	[6865, 3186]
583	[1104, 1105]	2807	[4261, 4262]	5031	[2857, 2932]	7255	[3166, 3482]
584	[1106, 1107]	2808	[4263, 1893]	5032	[433, 5995]	7256	[7977, 6834]
585	[269, 1024]	2809	[4264, 4265]	5033	[3816, 6432]	7257	[7978, 6880]
586	[1108, 1109]	2810	[4266, 4267]	5034	[5989, 6433]	7258	[6754, 366]
587	[1100, 1110]	2811	[4268, 4269]	5035	[1369, 6434]	7259	[7979, 6576]
588	[1111, 1112]	2812	[2281, 1737]	5036	[6435, 6436]	7260	[3723, 1060]
589	[1113, 1114]	2813	[4270, 699]	5037	[5922, 942]	7261	[6148, 6430]
590	[1115, 1116]	2814	[719, 4271]	5038	[6437, 106]	7262	[7980, 7981]
591	[1117, 1118]	2815	[2594, 508]	5039	[3796, 1540]	7263	[7982, 7983]
592	[1119, 1120]	2816	[4272, 4273]	5040	[6438, 2973]	7264	[3662, 1451]
593	[1121, 1122]	2817	[4274, 4275]	5041	[6439, 6440]	7265	[7984, 3465]
594	[1123, 1008]	2818	[4276, 4262]	5042	[6252, 5901]	7266	[6389, 7968]
595	[1124, 1125]	2819	[4277, 4278]	5043	[6441, 6442]	7267	[7985, 5861]
596	[1126, 1127]	2820	[4279, 831]	5044	[3181, 3479]	7268	[7796, 116]
597	[1128, 1129]	2821	[4280, 2367]	5045	[6443, 6444]	7269	[430, 6636]
598	[1130, 121]	2822	[4281, 4282]	5046	[5932, 3216]	7270	[3589, 7986]
599	[1131, 1132]	2823	[4283, 4284]	5047	[6445, 6197]	7271	[1479, 2790]
600	[1133, 1134]	2824	[2729, 1880]	5048	[6062, 1611]	7272	[7987, 3786]
601	[1135, 1136]	2825	[639, 4285]	5049	[3606, 6446]	7273	[7988, 3029]
602	[1137, 1138]	2826	[4286, 4287]	5050	[4077, 6447]	7274	[6668, 7989]
603	[1139, 1140]	2827	[4288, 1909]	5051	[5816, 1302]	7275	[7990, 1124]
604	[1141, 1142]	2828	[4289, 4290]	5052	[3958, 3830]	7276	[6859, 7991]
605	[1143, 1144]	2829	[4291, 1714]	5053	[5973, 5959]	7277	[7992, 3295]
606	[1002, 1145]	2830	[4292, 4293]	5054	[6448, 291]	7278	[7993, 3857]
607	[1146, 1147]	2831	[1953, 2454]	5055	[6449, 2913]	7279	[7994, 7995]
608	[1148, 1149]	2832	[4294, 220]	5056	[435, 4028]	7280	[7996, 3650]
609	[1150, 1151]	2833	[2259, 1778]	5057	[3853, 3708]	7281	[3936, 7771]
610	[1152, 1153]	2834	[660, 1876]	5058	[6450, 6451]	7282	[7743, 6286]
611	[1154, 1155]	2835	[4295, 4296]	5059	[356, 3708]	7283	[7997, 6602]
612	[1156, 1157]	2836	[4297, 1710]	5060	[6452, 3128]	7284	[7998, 4116]
613	[1158, 1159]	2837	[4298, 4299]	5061	[6453, 6420]	7285	[7999, 3660]
614	[1160, 1161]	2838	[4300, 4301]	5062	[6454, 1063]	7286	[4075, 1545]

615	[1162, 467]	2839	[4302, 4303]	5063	[6455, 429]	7287	[3644, 6160]
616	[1163, 1164]	2840	[4304, 4305]	5064	[2899, 6456]	7288	[8000, 6689]
617	[1165, 1166]	2841	[4306, 4307]	5065	[6457, 2974]	7289	[1402, 1016]
618	[1167, 1168]	2842	[4308, 4309]	5066	[6331, 6458]	7290	[8001, 3069]
619	[88, 1169]	2843	[653, 706]	5067	[3741, 6428]	7291	[8002, 3287]
620	[1170, 1171]	2844	[4310, 676]	5068	[6280, 6459]	7292	[8003, 1480]
621	[1172, 1173]	2845	[4311, 4312]	5069	[6460, 2905]	7293	[6116, 7921]
622	[1174, 1175]	2846	[4313, 4314]	5070	[6461, 3047]	7294	[8004, 8005]
623	[1176, 67]	2847	[4315, 4316]	5071	[2984, 6462]	7295	[8006, 456]
624	[1177, 1178]	2848	[4317, 4318]	5072	[6463, 3554]	7296	[3614, 3519]
625	[1179, 1180]	2849	[4319, 4320]	5073	[6464, 5860]	7297	[6360, 6022]
626	[1181, 1182]	2850	[1722, 2020]	5074	[6465, 4012]	7298	[1528, 5879]
627	[1183, 1184]	2851	[4321, 4322]	5075	[6466, 3824]	7299	[3476, 5677]
628	[1185, 1186]	2852	[4323, 4324]	5076	[6467, 6468]	7300	[8007, 6084]
629	[1187, 1188]	2853	[4325, 2443]	5077	[6469, 6343]	7301	[6576, 7907]
630	[1189, 248]	2854	[4326, 4327]	5078	[6470, 3432]	7302	[401, 6403]
631	[1190, 1013]	2855	[4328, 193]	5079	[6471, 1560]	7303	[1239, 5693]
632	[1191, 1067]	2856	[4329, 857]	5080	[6472, 6473]	7304	[8008, 8009]
633	[1192, 1193]	2857	[127, 2493]	5081	[6474, 3118]	7305	[1091, 7809]
634	[1194, 1195]	2858	[4330, 4331]	5082	[6475, 1340]	7306	[8010, 1466]
635	[1196, 1197]	2859	[2119, 877]	5083	[5884, 1250]	7307	[1436, 5821]
636	[1198, 1132]	2860	[4332, 4333]	5084	[6476, 1342]	7308	[8011, 335]
637	[1042, 1037]	2861	[4334, 4335]	5085	[1580, 1460]	7309	[6264, 3692]
638	[317, 1199]	2862	[4336, 4337]	5086	[6477, 6331]	7310	[8012, 6644]
639	[1200, 1201]	2863	[4338, 4339]	5087	[2956, 3852]	7311	[6855, 5746]
640	[1202, 1171]	2864	[4340, 4341]	5088	[6478, 3450]	7312	[8013, 4017]
641	[1203, 1204]	2865	[4342, 1959]	5089	[4142, 3009]	7313	[6381, 3321]
642	[1205, 1206]	2866	[4343, 2753]	5090	[2824, 6479]	7314	[6064, 3440]
643	[1207, 1208]	2867	[2120, 4344]	5091	[3376, 4133]	7315	[1202, 8014]
644	[975, 1209]	2868	[4345, 4346]	5092	[3475, 5738]	7316	[3131, 3537]
645	[1210, 1211]	2869	[4347, 4348]	5093	[6480, 956]	7317	[1194, 7957]
646	[1212, 1213]	2870	[4349, 4350]	5094	[1122, 1450]	7318	[8015, 8016]
647	[1214, 1215]	2871	[2388, 4351]	5095	[6481, 4177]	7319	[2893, 8017]
648	[1216, 1217]	2872	[4352, 1747]	5096	[4214, 6482]	7320	[7931, 1157]
649	[1218, 1219]	2873	[2216, 4353]	5097	[6483, 6484]	7321	[1024, 435]
650	[1220, 1221]	2874	[4354, 220]	5098	[6485, 3414]	7322	[6826, 8018]
651	[1222, 1223]	2875	[4355, 581]	5099	[6486, 2805]	7323	[8019, 3899]
652	[1224, 1225]	2876	[4356, 4357]	5100	[1123, 6487]	7324	[5796, 2853]
653	[937, 1226]	2877	[877, 4344]	5101	[6488, 3457]	7325	[7799, 2824]
654	[1227, 381]	2878	[887, 4358]	5102	[6489, 1491]	7326	[8020, 1422]
655	[1228, 939]	2879	[4359, 133]	5103	[6490, 3461]	7327	[973, 6167]
656	[1229, 1230]	2880	[670, 2354]	5104	[6491, 1343]	7328	[8021, 2890]
657	[1231, 1232]	2881	[4360, 4361]	5105	[1266, 1187]	7329	[5899, 8022]
658	[1233, 1234]	2882	[4362, 4363]	5106	[6492, 6493]	7330	[3725, 2887]

659	[1235, 1236]	2883	[4364, 4365]	5107	[6494, 6432]	7331	[5856, 8023]
660	[1237, 1238]	2884	[4366, 4367]	5108	[1539, 1249]	7332	[3531, 7815]
661	[1239, 1240]	2885	[4368, 46]	5109	[6225, 6495]	7333	[8024, 8025]
662	[1241, 1242]	2886	[4369, 4370]	5110	[6496, 6497]	7334	[420, 5913]
663	[1243, 1244]	2887	[4371, 2739]	5111	[6498, 1088]	7335	[8026, 5833]
664	[1245, 1246]	2888	[9, 4372]	5112	[473, 3912]	7336	[3285, 6827]
665	[1247, 1248]	2889	[1807, 2561]	5113	[6499, 1652]	7337	[3608, 7754]
666	[1249, 466]	2890	[4373, 4374]	5114	[6500, 6365]	7338	[8027, 8028]
667	[1195, 966]	2891	[4375, 4376]	5115	[6501, 6502]	7339	[8029, 3237]
668	[1165, 1250]	2892	[4377, 2319]	5116	[6147, 474]	7340	[6788, 1254]
669	[1251, 1252]	2893	[4378, 2525]	5117	[6503, 6504]	7341	[281, 3828]
670	[1018, 1253]	2894	[2012, 2196]	5118	[15, 3209]	7342	[8030, 6591]
671	[1183, 1254]	2895	[1915, 2525]	5119	[3341, 3211]	7343	[8031, 5908]
672	[1255, 1256]	2896	[1920, 1736]	5120	[2782, 6505]	7344	[6278, 1065]
673	[1257, 1258]	2897	[1734, 1738]	5121	[6506, 1193]	7345	[8032, 6690]
674	[1259, 1260]	2898	[1733, 1737]	5122	[6507, 3716]	7346	[6775, 1604]
675	[1261, 971]	2899	[2015, 2196]	5123	[6508, 6502]	7347	[1231, 3482]
676	[1262, 1263]	2900	[640, 822]	5124	[6509, 6510]	7348	[8033, 8034]
677	[1264, 1265]	2901	[4379, 36]	5125	[6511, 6512]	7349	[3563, 968]
678	[356, 1266]	2902	[4380, 4381]	5126	[6513, 1039]	7350	[8035, 1126]
679	[1267, 365]	2903	[4382, 494]	5127	[6514, 3109]	7351	[125, 5927]
680	[1268, 1269]	2904	[4383, 4384]	5128	[6515, 1341]	7352	[8036, 8037]
681	[294, 1270]	2905	[4385, 2383]	5129	[6516, 3836]	7353	[8038, 8039]
682	[1271, 1272]	2906	[4386, 813]	5130	[6517, 6030]	7354	[8040, 3764]
683	[1273, 1274]	2907	[533, 651]	5131	[1611, 4210]	7355	[8041, 8042]
684	[1275, 1276]	2908	[2103, 514]	5132	[1126, 20]	7356	[3396, 8043]
685	[1277, 1278]	2909	[630, 2753]	5133	[3506, 6416]	7357	[5709, 2784]
686	[1279, 1280]	2910	[2449, 677]	5134	[2843, 364]	7358	[8044, 6350]
687	[1281, 1282]	2911	[4387, 1789]	5135	[5926, 3541]	7359	[3988, 6393]
688	[1283, 1284]	2912	[759, 4388]	5136	[6518, 6519]	7360	[8045, 8046]
689	[1285, 1286]	2913	[4389, 4390]	5137	[6520, 6521]	7361	[2813, 1354]
690	[1287, 1288]	2914	[4391, 2632]	5138	[1385, 6522]	7362	[8047, 5857]
691	[1076, 1289]	2915	[4392, 56]	5139	[6523, 1012]	7363	[8048, 945]
692	[1290, 1291]	2916	[2190, 2301]	5140	[6524, 3741]	7364	[8049, 5768]
693	[1292, 430]	2917	[4393, 4394]	5141	[6525, 6526]	7365	[8050, 8051]
694	[1293, 364]	2918	[4395, 571]	5142	[6195, 3514]	7366	[8052, 284]
695	[1294, 1295]	2919	[2178, 4396]	5143	[6527, 1101]	7367	[8053, 3776]
696	[1296, 1206]	2920	[4397, 1762]	5144	[6528, 4112]	7368	[6091, 6125]
697	[1297, 1298]	2921	[2148, 2714]	5145	[4008, 3463]	7369	[8054, 3145]
698	[963, 1299]	2922	[4387, 1684]	5146	[4165, 6529]	7370	[8055, 8056]
699	[1300, 1301]	2923	[2201, 4384]	5147	[6530, 6396]	7371	[7807, 6416]
700	[1302, 1303]	2924	[4398, 4288]	5148	[256, 3900]	7372	[1573, 6325]
701	[1304, 1305]	2925	[4399, 2585]	5149	[6531, 3429]	7373	[285, 3874]
702	[1306, 1307]	2926	[4400, 862]	5150	[5720, 3627]	7374	[1000, 1469]

703	[1308, 1309]	2927	[4401, 4402]	5151	[6532, 6505]	7375	[5880, 6426]
704	[1310, 1311]	2928	[4403, 2611]	5152	[5758, 6533]	7376	[6726, 6016]
705	[1312, 1313]	2929	[4404, 4405]	5153	[2854, 6248]	7377	[5791, 5716]
706	[1314, 1315]	2930	[4406, 2258]	5154	[6534, 1186]	7378	[8022, 6635]
707	[1226, 1316]	2931	[4407, 1925]	5155	[5686, 3662]	7379	[6532, 6583]
708	[969, 1317]	2932	[129, 4321]	5156	[5764, 947]	7380	[6828, 3307]
709	[1318, 1319]	2933	[4408, 597]	5157	[1440, 6535]	7381	[8057, 8058]
710	[1320, 1321]	2934	[571, 2740]	5158	[6536, 1504]	7382	[2911, 8059]
711	[1322, 1323]	2935	[1756, 4409]	5159	[6537, 3957]	7383	[8060, 8061]
712	[1324, 1325]	2936	[4410, 4411]	5160	[3634, 6538]	7384	[8062, 111]
713	[1326, 1327]	2937	[4412, 4293]	5161	[3956, 3789]	7385	[6050, 7961]
714	[1328, 1329]	2938	[4413, 4414]	5162	[6539, 3945]	7386	[7909, 3347]
715	[1131, 1330]	2939	[679, 4415]	5163	[368, 1032]	7387	[8063, 3918]
716	[1331, 1332]	2940	[4416, 4417]	5164	[6540, 111]	7388	[4215, 7761]
717	[428, 1333]	2941	[4418, 1989]	5165	[6541, 3250]	7389	[8064, 6044]
718	[1334, 1335]	2942	[4419, 4287]	5166	[6411, 4103]	7390	[6189, 1612]
719	[1336, 1337]	2943	[4420, 246]	5167	[6542, 6543]	7391	[3669, 6176]
720	[1338, 67]	2944	[4421, 4354]	5168	[990, 3630]	7392	[7833, 3063]
721	[1098, 1339]	2945	[246, 4422]	5169	[6544, 6105]	7393	[353, 7919]
722	[1039, 1340]	2946	[4423, 1671]	5170	[6545, 6546]	7394	[3677, 1270]
723	[1341, 1342]	2947	[4424, 2002]	5171	[6547, 321]	7395	[6643, 1523]
724	[1343, 1344]	2948	[4425, 1724]	5172	[6548, 5955]	7396	[3258, 5969]
725	[1345, 5]	2949	[4426, 4427]	5173	[974, 2804]	7397	[3157, 4032]
726	[1075, 1346]	2950	[4428, 4429]	5174	[1034, 6406]	7398	[6736, 1419]
727	[1347, 1348]	2951	[4430, 4431]	5175	[6549, 1159]	7399	[8038, 6888]
728	[1349, 1350]	2952	[4432, 2064]	5176	[3409, 6196]	7400	[8065, 6575]
729	[1351, 1352]	2953	[2703, 2280]	5177	[6257, 377]	7401	[3340, 6434]
730	[375, 1353]	2954	[594, 2703]	5178	[6550, 3206]	7402	[2778, 5732]
731	[1354, 1355]	2955	[141, 4433]	5179	[3052, 4109]	7403	[3061, 3679]
732	[1356, 1357]	2956	[4415, 2291]	5180	[6051, 404]	7404	[8066, 7822]
733	[1358, 1359]	2957	[4434, 1927]	5181	[1116, 1151]	7405	[7957, 966]
734	[1360, 1361]	2958	[2487, 1788]	5182	[6551, 6552]	7406	[8067, 6055]
735	[1362, 1363]	2959	[4435, 4436]	5183	[6553, 6554]	7407	[6702, 8068]
736	[1364, 1365]	2960	[4437, 811]	5184	[6555, 3252]	7408	[8069, 1086]
737	[1366, 1367]	2961	[4438, 2348]	5185	[314, 4149]	7409	[1432, 3555]
738	[1368, 1369]	2962	[4439, 2396]	5186	[6556, 3025]	7410	[5795, 2852]
739	[1370, 1371]	2963	[4440, 4441]	5187	[3068, 6447]	7411	[6287, 8070]
740	[1372, 1373]	2964	[4442, 2067]	5188	[915, 3589]	7412	[6052, 5958]
741	[1374, 1375]	2965	[4443, 2141]	5189	[6557, 3936]	7413	[8071, 3586]
742	[1376, 1377]	2966	[4444, 2287]	5190	[6558, 4135]	7414	[8072, 982]
743	[1378, 1379]	2967	[4445, 4446]	5191	[6385, 4106]	7415	[8073, 3678]
744	[1380, 1381]	2968	[4447, 858]	5192	[6559, 6560]	7416	[4061, 7957]
745	[971, 1382]	2969	[4448, 4449]	5193	[4061, 1195]	7417	[8074, 8075]
746	[1383, 1384]	2970	[130, 803]	5194	[3388, 3033]	7418	[6647, 8076]

747	[1385, 1386]	2971	[4450, 1740]	5195	[3002, 104]	7419	[3981, 8077]
748	[1387, 1388]	2972	[4451, 4452]	5196	[3599, 422]	7420	[6546, 1396]
749	[1389, 1390]	2973	[4453, 2083]	5197	[6561, 5968]	7421	[3751, 3676]
750	[1391, 1392]	2974	[4454, 4455]	5198	[3550, 4153]	7422	[3951, 2944]
751	[1393, 1394]	2975	[4456, 2227]	5199	[6562, 6563]	7423	[6856, 3526]
752	[1395, 1396]	2976	[4457, 551]	5200	[5796, 3265]	7424	[8078, 1440]
753	[1397, 1398]	2977	[2541, 4458]	5201	[6323, 3607]	7425	[3254, 3948]
754	[1399, 1400]	2978	[4459, 4460]	5202	[6564, 6320]	7426	[1523, 8023]
755	[1401, 274]	2979	[4461, 4462]	5203	[1435, 6565]	7427	[358, 8079]
756	[1402, 350]	2980	[503, 4463]	5204	[3600, 394]	7428	[8080, 3529]
757	[76, 1403]	2981	[1822, 2014]	5205	[3391, 3493]	7429	[3835, 6755]
758	[1404, 1405]	2982	[4464, 1827]	5206	[119, 6179]	7430	[4070, 1411]
759	[1406, 1407]	2983	[2649, 4465]	5207	[1607, 420]	7431	[3854, 5951]
760	[1408, 272]	2984	[2185, 156]	5208	[6566, 1606]	7432	[7844, 1600]
761	[1409, 1410]	2985	[4466, 2752]	5209	[3033, 6567]	7433	[8081, 8082]
762	[328, 1411]	2986	[1961, 2133]	5210	[6568, 6569]	7434	[3805, 6255]
763	[1412, 1413]	2987	[4467, 2348]	5211	[6570, 5988]	7435	[8083, 1646]
764	[1414, 1415]	2988	[4468, 520]	5212	[3578, 6087]	7436	[6232, 6061]
765	[1416, 1417]	2989	[4469, 4470]	5213	[6571, 965]	7437	[4192, 3363]
766	[992, 1418]	2990	[2028, 4471]	5214	[1498, 1454]	7438	[1245, 8084]
767	[1419, 1420]	2991	[4472, 4473]	5215	[1334, 3779]	7439	[3584, 3523]
768	[1139, 1319]	2992	[4474, 4475]	5216	[6572, 4184]	7440	[461, 1509]
769	[1421, 1422]	2993	[4476, 4477]	5217	[6573, 6268]	7441	[8085, 6340]
770	[1423, 1424]	2994	[4478, 4479]	5218	[6574, 6575]	7442	[3739, 6547]
771	[1425, 1426]	2995	[2459, 4480]	5219	[457, 1334]	7443	[8086, 3285]
772	[1243, 1427]	2996	[2604, 4481]	5220	[5902, 1010]	7444	[6060, 6233]
773	[1134, 1428]	2997	[4482, 2031]	5221	[6576, 6577]	7445	[8087, 6291]
774	[259, 1429]	2998	[4483, 4484]	5222	[6578, 1430]	7446	[1220, 3880]
775	[1103, 1430]	2999	[4453, 1975]	5223	[3485, 3578]	7447	[8088, 8089]
776	[1431, 425]	3000	[4485, 1888]	5224	[6579, 5809]	7448	[7959, 5917]
777	[1432, 1433]	3001	[4486, 227]	5225	[5775, 6580]	7449	[5841, 5772]
778	[1434, 1435]	3002	[4487, 718]	5226	[6581, 3439]	7450	[8090, 3201]
779	[1162, 1436]	3003	[2231, 247]	5227	[6582, 6577]	7451	[8091, 262]
780	[1437, 278]	3004	[4488, 2100]	5228	[2782, 6583]	7452	[948, 5799]
781	[1438, 1297]	3005	[4489, 1752]	5229	[6584, 3070]	7453	[8092, 294]
782	[1439, 1440]	3006	[1671, 4490]	5230	[6585, 6586]	7454	[8093, 3282]
783	[1441, 1442]	3007	[4491, 4492]	5231	[6587, 5850]	7455	[6464, 8094]
784	[1143, 1443]	3008	[1936, 4493]	5232	[3171, 5856]	7456	[3888, 3923]
785	[1444, 1445]	3009	[4494, 4495]	5233	[3144, 6588]	7457	[8095, 8096]
786	[1446, 1447]	3010	[4496, 4497]	5234	[2876, 6589]	7458	[1528, 7785]
787	[1448, 1449]	3011	[4498, 2108]	5235	[1279, 3000]	7459	[8097, 7758]
788	[1450, 1451]	3012	[4409, 4499]	5236	[6590, 4066]	7460	[8098, 4006]
789	[1452, 1453]	3013	[4500, 2314]	5237	[2802, 6053]	7461	[3209, 3931]
790	[1454, 974]	3014	[4501, 4502]	5238	[6591, 6592]	7462	[8099, 8100]

791	[1455, 1456]	3015	[4503, 4504]	5239	[6593, 6594]	7463	[28, 6351]
792	[1457, 1458]	3016	[4505, 2409]	5240	[6595, 5909]	7464	[7749, 8101]
793	[1259, 1459]	3017	[4506, 4265]	5241	[4178, 1203]	7465	[8102, 8103]
794	[1460, 1461]	3018	[1815, 1686]	5242	[6596, 6597]	7466	[3469, 8104]
795	[1462, 1236]	3019	[4507, 4508]	5243	[6598, 6599]	7467	[3488, 2916]
796	[1463, 1464]	3020	[832, 2199]	5244	[6600, 6001]	7468	[5749, 6099]
797	[361, 1465]	3021	[4238, 1882]	5245	[3934, 6186]	7469	[3292, 3986]
798	[1466, 1467]	3022	[4509, 4510]	5246	[6601, 6602]	7470	[3353, 963]
799	[1468, 1469]	3023	[4511, 4512]	5247	[6603, 5990]	7471	[8105, 297]
800	[1470, 1471]	3024	[4513, 4514]	5248	[4122, 3326]	7472	[8007, 6383]
801	[1472, 1473]	3025	[4515, 205]	5249	[3051, 6588]	7473	[3005, 6334]
802	[1393, 1102]	3026	[4516, 4517]	5250	[118, 3568]	7474	[6680, 1124]
803	[1474, 1475]	3027	[4518, 4519]	5251	[6604, 1527]	7475	[6165, 3453]
804	[1476, 1477]	3028	[4520, 4521]	5252	[6605, 4187]	7476	[3685, 3353]
805	[927, 396]	3029	[4522, 4523]	5253	[1338, 1181]	7477	[3638, 3488]
806	[962, 1406]	3030	[1916, 2526]	5254	[6058, 1302]	7478	[2783, 8106]
807	[1154, 1478]	3031	[4524, 1680]	5255	[6524, 3186]	7479	[8107, 8108]
808	[1479, 1480]	3032	[1895, 2374]	5256	[5958, 279]	7480	[8109, 7870]
809	[1481, 1482]	3033	[198, 4525]	5257	[68, 1584]	7481	[3864, 6161]
810	[1483, 1484]	3034	[4526, 1657]	5258	[6606, 6519]	7482	[8110, 8111]
811	[1485, 1486]	3035	[4527, 4528]	5259	[1340, 4102]	7483	[3801, 2906]
812	[1487, 1488]	3036	[4529, 4530]	5260	[3879, 1221]	7484	[5918, 97]
813	[1489, 1490]	3037	[4531, 4532]	5261	[1388, 6422]	7485	[6251, 1049]
814	[984, 1491]	3038	[4533, 4534]	5262	[1476, 3765]	7486	[8104, 2919]
815	[1492, 1493]	3039	[4535, 4536]	5263	[6607, 6608]	7487	[5750, 5720]
816	[1494, 251]	3040	[4537, 170]	5264	[6609, 1341]	7488	[8112, 8005]
817	[1495, 1496]	3041	[4538, 4539]	5265	[3938, 6610]	7489	[2890, 1490]
818	[1497, 1498]	3042	[4540, 1777]	5266	[6611, 3762]	7490	[7758, 1573]
819	[1499, 1500]	3043	[4541, 4419]	5267	[992, 6612]	7491	[4185, 3518]
820	[1501, 1502]	3044	[4542, 1678]	5268	[4081, 6613]	7492	[6603, 6433]
821	[1503, 1504]	3045	[2172, 4543]	5269	[6614, 6427]	7493	[8113, 4095]
822	[1505, 990]	3046	[4544, 4545]	5270	[1399, 6615]	7494	[413, 6154]
823	[1506, 1507]	3047	[4546, 2486]	5271	[6178, 6138]	7495	[8114, 8104]
824	[1508, 1509]	3048	[4547, 876]	5272	[6616, 6617]	7496	[282, 5811]
825	[1510, 1511]	3049	[4548, 2225]	5273	[6374, 6289]	7497	[8115, 6752]
826	[1512, 1478]	3050	[33, 4549]	5274	[4132, 3416]	7498	[4154, 6660]
827	[454, 1513]	3051	[835, 4550]	5275	[4044, 5949]	7499	[5746, 3117]
828	[1112, 1514]	3052	[542, 1691]	5276	[346, 6300]	7500	[3180, 3478]
829	[1515, 1516]	3053	[2239, 622]	5277	[6585, 6618]	7501	[1195, 3041]
830	[988, 1517]	3054	[4551, 4370]	5278	[6619, 6458]	7502	[8116, 3124]
831	[1518, 1519]	3055	[4552, 4553]	5279	[5766, 3215]	7503	[989, 3629]
832	[1520, 1521]	3056	[2000, 522]	5280	[6620, 6621]	7504	[4042, 3367]
833	[1522, 404]	3057	[4554, 4555]	5281	[1607, 5912]	7505	[3761, 2997]
834	[1523, 1524]	3058	[4556, 204]	5282	[6622, 3576]	7506	[5853, 3865]

835	[1525, 1526]	3059	[4557, 4528]	5283	[6623, 6624]	7507	[8073, 1495]
836	[1527, 1528]	3060	[4558, 4411]	5284	[6625, 3521]	7508	[5846, 6749]
837	[1529, 1530]	3061	[4496, 4559]	5285	[3920, 3919]	7509	[8117, 3861]
838	[1531, 1532]	3062	[31, 2320]	5286	[6626, 102]	7510	[2980, 5722]
839	[1206, 1413]	3063	[4560, 4561]	5287	[76, 1040]	7511	[8118, 3349]
840	[1533, 1534]	3064	[4562, 170]	5288	[5968, 3259]	7512	[8119, 8120]
841	[1396, 1535]	3065	[4563, 1886]	5289	[6627, 3797]	7513	[3918, 7879]
842	[1536, 1537]	3066	[2580, 2451]	5290	[3937, 6231]	7514	[7878, 3474]
843	[1538, 1209]	3067	[4564, 4565]	5291	[6628, 1653]	7515	[3192, 3383]
844	[1539, 465]	3068	[4566, 4550]	5292	[3301, 6004]	7516	[6489, 2775]
845	[1540, 1420]	3069	[4520, 4431]	5293	[3738, 322]	7517	[8121, 3742]
846	[1541, 1542]	3070	[4567, 4568]	5294	[6629, 6026]	7518	[6328, 4182]
847	[1543, 1544]	3071	[4569, 4316]	5295	[1081, 4208]	7519	[7906, 3752]
848	[1545, 1546]	3072	[4570, 4571]	5296	[1412, 5672]	7520	[8122, 5968]
849	[1547, 1548]	3073	[221, 4572]	5297	[2922, 6630]	7521	[1498, 973]
850	[1549, 1550]	3074	[4381, 4324]	5298	[6631, 6632]	7522	[7862, 3724]
851	[1551, 1552]	3075	[4573, 4574]	5299	[6527, 1110]	7523	[8066, 6315]
852	[1553, 92]	3076	[4575, 1658]	5300	[6633, 6634]	7524	[65, 8123]
853	[1554, 1555]	3077	[4576, 4577]	5301	[3567, 6635]	7525	[271, 8124]
854	[1556, 1557]	3078	[4578, 4579]	5302	[1491, 2776]	7526	[8125, 5786]
855	[1558, 1559]	3079	[4580, 4581]	5303	[5834, 3843]	7527	[4148, 7898]
856	[1560, 1561]	3080	[4582, 4583]	5304	[2920, 6636]	7528	[3597, 3576]
857	[1562, 1563]	3081	[4584, 4585]	5305	[6637, 3329]	7529	[6541, 2991]
858	[1564, 1565]	3082	[4586, 4587]	5306	[6370, 3719]	7530	[8025, 1116]
859	[1566, 1567]	3083	[1780, 721]	5307	[6638, 6497]	7531	[8126, 8127]
860	[1568, 1569]	3084	[2452, 4389]	5308	[6639, 6586]	7532	[8128, 7869]
861	[1570, 1571]	3085	[4588, 586]	5309	[6640, 1198]	7533	[8129, 6046]
862	[1572, 1573]	3086	[4589, 646]	5310	[6641, 5684]	7534	[8130, 4129]
863	[1574, 1575]	3087	[4590, 4497]	5311	[3342, 3396]	7535	[2907, 3357]
864	[1576, 1577]	3088	[4591, 2469]	5312	[6642, 6042]	7536	[5915, 3240]
865	[1578, 1579]	3089	[4592, 163]	5313	[6643, 5856]	7537	[1354, 8131]
866	[1580, 1581]	3090	[2328, 4593]	5314	[6644, 1097]	7538	[8132, 8133]
867	[1582, 1583]	3091	[4594, 4595]	5315	[6645, 6646]	7539	[6537, 4026]
868	[1182, 1584]	3092	[4596, 645]	5316	[6647, 6284]	7540	[6783, 6696]
869	[1585, 1586]	3093	[2250, 12]	5317	[6648, 3003]	7541	[986, 6567]
870	[1587, 1588]	3094	[171, 4597]	5318	[400, 6334]	7542	[1128, 6078]
871	[1589, 1590]	3095	[38, 757]	5319	[6649, 3347]	7543	[8134, 1527]
872	[1591, 1592]	3096	[2499, 2594]	5320	[3362, 4193]	7544	[6453, 8135]
873	[1451, 1593]	3097	[2321, 2765]	5321	[6650, 6651]	7545	[8136, 7960]
874	[1594, 465]	3098	[4531, 4327]	5322	[4151, 398]	7546	[8137, 6478]
875	[1350, 1595]	3099	[4598, 4599]	5323	[6652, 5992]	7547	[288, 5770]
876	[1596, 1597]	3100	[4600, 4601]	5324	[1406, 1299]	7548	[8138, 6795]
877	[1598, 1599]	3101	[655, 494]	5325	[3561, 6653]	7549	[3860, 6808]
878	[303, 1600]	3102	[4602, 4603]	5326	[6654, 6655]	7550	[8139, 7823]

879	[1601, 1602]	3103	[4604, 129]	5327	[6656, 3451]	7551	[6390, 5837]
880	[1603, 1604]	3104	[4605, 4606]	5328	[6657, 6159]	7552	[4056, 2925]
881	[1605, 1459]	3105	[4607, 4608]	5329	[6658, 1321]	7553	[8140, 8141]
882	[1606, 1607]	3106	[4609, 2496]	5330	[6659, 6660]	7554	[3187, 6429]
883	[1378, 1608]	3107	[4252, 676]	5331	[6661, 3977]	7555	[8142, 1626]
884	[1609, 1610]	3108	[4610, 2089]	5332	[6445, 27]	7556	[8143, 6030]
885	[1189, 1611]	3109	[577, 1795]	5333	[3984, 3315]	7557	[3119, 5940]
886	[1612, 1613]	3110	[492, 4611]	5334	[3124, 3706]	7558	[1493, 7916]
887	[1614, 1615]	3111	[4612, 145]	5335	[3707, 1336]	7559	[5790, 6205]
888	[1616, 1617]	3112	[2675, 796]	5336	[6622, 478]	7560	[3204, 4047]
889	[1618, 1619]	3113	[2404, 740]	5337	[6662, 6440]	7561	[8144, 1320]
890	[1620, 1621]	3114	[4613, 4525]	5338	[3135, 6663]	7562	[6853, 3803]
891	[1622, 1623]	3115	[4614, 4615]	5339	[6664, 379]	7563	[3667, 8145]
892	[1624, 1625]	3116	[1878, 2592]	5340	[6416, 1369]	7564	[5904, 6824]
893	[1626, 1627]	3117	[822, 4616]	5341	[6665, 1054]	7565	[8146, 8147]
894	[1544, 1628]	3118	[4617, 4618]	5342	[6621, 6666]	7566	[6262, 476]
895	[1496, 1567]	3119	[4619, 2041]	5343	[6667, 5852]	7567	[1351, 6024]
896	[1629, 1630]	3120	[4620, 838]	5344	[1480, 2791]	7568	[3858, 6398]
897	[1631, 1632]	3121	[4621, 4622]	5345	[2855, 6249]	7569	[6102, 8148]
898	[1633, 1634]	3122	[4623, 4624]	5346	[6668, 3972]	7570	[8149, 1453]
899	[1635, 1636]	3123	[4625, 866]	5347	[5900, 4218]	7571	[8150, 6410]
900	[1261, 1637]	3124	[4626, 2591]	5348	[1028, 4180]	7572	[5875, 8123]
901	[1638, 1639]	3125	[4627, 643]	5349	[6669, 4058]	7573	[3017, 6341]
902	[1640, 1641]	3126	[4628, 2149]	5350	[334, 3224]	7574	[8151, 8152]
903	[1592, 1642]	3127	[4629, 4630]	5351	[6670, 6671]	7575	[8138, 6763]
904	[1643, 1644]	3128	[4631, 4632]	5352	[6672, 6673]	7576	[3734, 1379]
905	[1538, 976]	3129	[4633, 4634]	5353	[6674, 5987]	7577	[8153, 8154]
906	[1645, 1646]	3130	[4635, 4636]	5354	[1057, 4068]	7578	[8155, 4033]
907	[1011, 1647]	3131	[4637, 4638]	5355	[6675, 6010]	7579	[3969, 338]
908	[1648, 1436]	3132	[4639, 4640]	5356	[6112, 3081]	7580	[1232, 6271]
909	[1649, 1650]	3133	[4641, 4642]	5357	[3112, 6218]	7581	[1401, 299]
910	[1651, 1398]	3134	[4643, 4644]	5358	[6676, 6677]	7582	[3708, 1187]
911	[1652, 1653]	3135	[4645, 2718]	5359	[6678, 3481]	7583	[1415, 6047]
912	[170, 664]	3136	[2015, 2013]	5360	[379, 3663]	7584	[7820, 3971]
913	[1654, 1655]	3137	[1876, 4646]	5361	[122, 6482]	7585	[8115, 6751]
914	[1656, 1657]	3138	[4647, 4648]	5362	[6679, 5872]	7586	[8156, 6095]
915	[1658, 203]	3139	[1762, 2297]	5363	[6680, 3231]	7587	[1520, 8157]
916	[1659, 858]	3140	[2754, 4649]	5364	[4147, 1258]	7588	[8158, 6849]
917	[1660, 862]	3141	[4650, 1877]	5365	[3034, 3766]	7589	[8159, 1537]
918	[1661, 1662]	3142	[4651, 4309]	5366	[6681, 6682]	7590	[289, 3513]
919	[1663, 1664]	3143	[2351, 2590]	5367	[432, 6183]	7591	[3090, 8160]
920	[1665, 1666]	3144	[4652, 1675]	5368	[6683, 2863]	7592	[8161, 1487]
921	[143, 1667]	3145	[4653, 1744]	5369	[1112, 3692]	7593	[471, 6573]
922	[1668, 1669]	3146	[4654, 4655]	5370	[6684, 6392]	7594	[8162, 6251]

923	[1670, 1671]	3147	[4656, 4354]	5371	[6685, 6686]	7595	[8163, 7775]
924	[1672, 1673]	3148	[4657, 4658]	5372	[2815, 5943]	7596	[6160, 1175]
925	[679, 1674]	3149	[4659, 4660]	5373	[6295, 6687]	7597	[3078, 4137]
926	[1675, 760]	3150	[1989, 2770]	5374	[6347, 3455]	7598	[3168, 8164]
927	[1676, 762]	3151	[2444, 4661]	5375	[6688, 6468]	7599	[6448, 4021]
928	[1677, 1678]	3152	[4662, 4663]	5376	[6689, 6521]	7600	[8165, 6787]
929	[1679, 1680]	3153	[4664, 49]	5377	[1049, 6690]	7601	[335, 5674]
930	[1681, 1682]	3154	[4665, 4666]	5378	[6691, 3177]	7602	[4168, 3690]
931	[1683, 1684]	3155	[4667, 4668]	5379	[5896, 5806]	7603	[8166, 8167]
932	[1685, 1686]	3156	[4669, 825]	5380	[6692, 457]	7604	[8168, 389]
933	[1687, 1688]	3157	[777, 4670]	5381	[6693, 6404]	7605	[1156, 3511]
934	[1689, 137]	3158	[747, 4671]	5382	[1090, 6694]	7606	[3965, 3950]
935	[1690, 1691]	3159	[4672, 4673]	5383	[6695, 6696]	7607	[8169, 4031]
936	[1692, 1693]	3160	[793, 4674]	5384	[6697, 6687]	7608	[7966, 3280]
937	[1694, 1695]	3161	[1729, 4336]	5385	[6186, 1231]	7609	[8170, 3043]
938	[1696, 1697]	3162	[39, 4675]	5386	[6698, 6699]	7610	[7879, 3475]
939	[568, 1698]	3163	[4676, 169]	5387	[1581, 6373]	7611	[8171, 6276]
940	[1699, 1700]	3164	[4677, 4678]	5388	[6700, 3870]	7612	[3439, 6794]
941	[1701, 1702]	3165	[4679, 4680]	5389	[6701, 4044]	7613	[2974, 7914]
942	[1703, 1704]	3166	[2703, 2017]	5390	[4027, 6702]	7614	[8172, 8173]
943	[1705, 1706]	3167	[2245, 4681]	5391	[6703, 6057]	7615	[6077, 1211]
944	[1707, 1708]	3168	[4682, 4682]	5392	[5799, 2956]	7616	[3403, 8174]
945	[1709, 1710]	3169	[4543, 2311]	5393	[6704, 6705]	7617	[8175, 3833]
946	[1711, 1712]	3170	[2017, 2281]	5394	[6706, 6707]	7618	[8176, 387]
947	[1713, 1714]	3171	[215, 2602]	5395	[5779, 1126]	7619	[3779, 8177]
948	[1715, 1716]	3172	[2382, 180]	5396	[1280, 4001]	7620	[8178, 1160]
949	[1717, 1718]	3173	[2218, 4356]	5397	[1581, 1461]	7621	[8114, 2918]
950	[1719, 1720]	3174	[4683, 845]	5398	[30, 1317]	7622	[6283, 8076]
951	[1721, 1722]	3175	[4684, 127]	5399	[6708, 943]	7623	[6419, 8135]
952	[1723, 1724]	3176	[4685, 4449]	5400	[6709, 6710]	7624	[5911, 8179]
953	[1725, 1726]	3177	[4686, 4687]	5401	[71, 920]	7625	[1462, 6757]
954	[1727, 1728]	3178	[4688, 4689]	5402	[1212, 444]	7626	[2859, 5874]
955	[1729, 1730]	3179	[4690, 4691]	5403	[6711, 307]	7627	[8180, 3412]
956	[1731, 1732]	3180	[4692, 4693]	5404	[6712, 5712]	7628	[6609, 6476]
957	[1733, 1734]	3181	[4694, 4376]	5405	[3658, 1339]	7629	[1431, 1029]
958	[1735, 1736]	3182	[1804, 2568]	5406	[26, 1591]	7630	[8181, 1284]
959	[1737, 1738]	3183	[612, 4695]	5407	[6713, 1434]	7631	[8182, 1320]
960	[1739, 1740]	3184	[4696, 2439]	5408	[313, 4148]	7632	[3748, 6580]
961	[1741, 1742]	3185	[4697, 2440]	5409	[1190, 6714]	7633	[8183, 8184]
962	[1743, 1744]	3186	[4698, 4687]	5410	[472, 6715]	7634	[3143, 3888]
963	[1745, 717]	3187	[2553, 4699]	5411	[6716, 3217]	7635	[8185, 3217]
964	[902, 1746]	3188	[4355, 4700]	5412	[6717, 6718]	7636	[6048, 2938]
965	[1747, 1748]	3189	[607, 2467]	5413	[414, 6155]	7637	[3678, 1566]
966	[1749, 1750]	3190	[4701, 773]	5414	[946, 5765]	7638	[3073, 5960]

967	[1751, 1752]	3191	[1894, 4702]	5415	[6672, 4065]	7639	[8186, 8187]
968	[1753, 1754]	3192	[4703, 4704]	5416	[6719, 351]	7640	[3978, 1001]
969	[1755, 1756]	3193	[760, 4705]	5417	[6720, 3468]	7641	[331, 6479]
970	[1757, 573]	3194	[8, 2237]	5418	[991, 6021]	7642	[8188, 3142]
971	[1758, 1759]	3195	[4706, 4707]	5419	[3870, 6343]	7643	[3183, 968]
972	[1760, 156]	3196	[4708, 4709]	5420	[6721, 6124]	7644	[6337, 413]
973	[1761, 1762]	3197	[2200, 4383]	5421	[6722, 981]	7645	[7829, 8189]
974	[847, 817]	3198	[4710, 4711]	5422	[3914, 3011]	7646	[3007, 4041]
975	[1763, 1764]	3199	[4712, 4713]	5423	[6723, 4081]	7647	[8190, 8191]
976	[1765, 1766]	3200	[4714, 4715]	5424	[3781, 5760]	7648	[6879, 8192]
977	[1767, 1768]	3201	[4396, 4716]	5425	[3310, 3445]	7649	[6729, 6771]
978	[1769, 1770]	3202	[2445, 4717]	5426	[6039, 6724]	7650	[8193, 981]
979	[1771, 1772]	3203	[2732, 2246]	5427	[1630, 1384]	7651	[8194, 7995]
980	[1773, 1774]	3204	[4718, 767]	5428	[6725, 6088]	7652	[6509, 3691]
981	[1775, 1776]	3205	[4719, 4720]	5429	[6726, 6727]	7653	[4064, 6673]
982	[1777, 189]	3206	[4721, 224]	5430	[1471, 1613]	7654	[8195, 1192]
983	[1778, 167]	3207	[186, 4722]	5431	[6728, 912]	7655	[8196, 8197]
984	[1779, 1780]	3208	[4723, 4724]	5432	[6729, 6730]	7656	[6377, 4061]
985	[1781, 1782]	3209	[2451, 4725]	5433	[6731, 3566]	7657	[8198, 4198]
986	[1783, 1784]	3210	[32, 2764]	5434	[6732, 4217]	7658	[8199, 8200]
987	[1785, 1786]	3211	[637, 4238]	5435	[6557, 6219]	7659	[8078, 2796]
988	[1787, 1788]	3212	[4726, 486]	5436	[6733, 3734]	7660	[6605, 8201]
989	[1683, 1789]	3213	[4727, 1983]	5437	[6131, 6626]	7661	[7888, 1295]
990	[1790, 658]	3214	[4728, 2516]	5438	[6191, 1102]	7662	[329, 8202]
991	[1791, 1792]	3215	[4729, 4730]	5439	[6092, 3477]	7663	[3912, 7888]
992	[1793, 1723]	3216	[4731, 2460]	5440	[6734, 1145]	7664	[16, 3931]
993	[1794, 654]	3217	[4732, 4733]	5441	[3551, 6361]	7665	[8203, 8127]
994	[853, 1795]	3218	[4734, 2215]	5442	[6735, 4150]	7666	[8181, 6712]
995	[1796, 1797]	3219	[4735, 2645]	5443	[6736, 1540]	7667	[8204, 6319]
996	[1798, 1799]	3220	[4736, 1837]	5444	[3733, 1378]	7668	[8205, 4141]
997	[1800, 232]	3221	[4737, 4738]	5445	[6737, 1251]	7669	[6212, 3262]
998	[1801, 1802]	3222	[4739, 644]	5446	[6738, 5967]	7670	[4136, 3614]
999	[1803, 1804]	3223	[4740, 680]	5447	[1651, 4156]	7671	[8206, 6716]
1000	[1805, 1806]	3224	[4741, 792]	5448	[6739, 22]	7672	[8207, 6478]
1001	[1807, 1808]	3225	[4742, 2124]	5449	[5889, 1568]	7673	[3642, 1177]
1002	[1809, 1810]	3226	[2490, 4743]	5450	[4213, 475]	7674	[8208, 8209]
1003	[1811, 1812]	3227	[4744, 2481]	5451	[6740, 6741]	7675	[7792, 1606]
1004	[1813, 1814]	3228	[2509, 4745]	5452	[3829, 3959]	7676	[8210, 3957]
1005	[1815, 1816]	3229	[4746, 1922]	5453	[5952, 375]	7677	[3421, 6627]
1006	[1817, 1818]	3230	[4747, 2685]	5454	[5751, 6133]	7678	[1039, 4101]
1007	[1819, 1820]	3231	[4748, 1726]	5455	[1450, 2899]	7679	[8211, 6831]
1008	[1821, 1822]	3232	[4611, 4749]	5456	[6742, 439]	7680	[8212, 3502]
1009	[1823, 828]	3233	[4750, 4751]	5457	[983, 6489]	7681	[999, 1468]
1010	[1824, 1825]	3234	[4752, 4753]	5458	[3791, 6743]	7682	[7858, 5673]

1011	[1826, 1827]	3235	[4754, 4755]	5459	[5771, 5842]	7683	[8213, 3652]
1012	[572, 1828]	3236	[4756, 4757]	5460	[6744, 6001]	7684	[6466, 8214]
1013	[1829, 1830]	3237	[4758, 4759]	5461	[3696, 6150]	7685	[6746, 101]
1014	[1831, 1832]	3238	[2369, 4760]	5462	[395, 4121]	7686	[8215, 3450]
1015	[1833, 1834]	3239	[4761, 4762]	5463	[6745, 1503]	7687	[8216, 8217]
1016	[1835, 1836]	3240	[4763, 1760]	5464	[6007, 1334]	7688	[8218, 8219]
1017	[675, 1837]	3241	[686, 1688]	5465	[3470, 3275]	7689	[8220, 3593]
1018	[1838, 1695]	3242	[4764, 826]	5466	[6746, 6626]	7690	[6231, 6847]
1019	[1839, 1840]	3243	[4765, 714]	5467	[2898, 6747]	7691	[8221, 8222]
1020	[1841, 1842]	3244	[4766, 2693]	5468	[6748, 281]	7692	[6392, 8223]
1021	[1843, 1844]	3245	[7, 2236]	5469	[1633, 6749]	7693	[3743, 1090]
1022	[1845, 1846]	3246	[4767, 2224]	5470	[2996, 6750]	7694	[5691, 6474]
1023	[1847, 1821]	3247	[4768, 1664]	5471	[6751, 6318]	7695	[8224, 6554]
1024	[1848, 1849]	3248	[4769, 4770]	5472	[6752, 6318]	7696	[8225, 6782]
1025	[1850, 1851]	3249	[4771, 4772]	5473	[5987, 3011]	7697	[1262, 3986]
1026	[1852, 1853]	3250	[4773, 4774]	5474	[6753, 2960]	7698	[8226, 8016]
1027	[1854, 1855]	3251	[2430, 4775]	5475	[4105, 6386]	7699	[8227, 8228]
1028	[1856, 1857]	3252	[4776, 4777]	5476	[264, 6754]	7700	[8077, 4035]
1029	[1858, 1859]	3253	[4778, 4492]	5477	[6516, 6755]	7701	[7806, 984]
1030	[1860, 1861]	3254	[4779, 2111]	5478	[3302, 5799]	7702	[8229, 8158]
1031	[1862, 1863]	3255	[1715, 1986]	5479	[5933, 255]	7703	[3067, 4077]
1032	[1864, 1865]	3256	[4780, 4301]	5480	[6756, 2922]	7704	[6507, 8230]
1033	[710, 1866]	3257	[4370, 4781]	5481	[6696, 5964]	7705	[8231, 3262]
1034	[1867, 1868]	3258	[2387, 1855]	5482	[1235, 6757]	7706	[6737, 5830]
1035	[1869, 128]	3259	[4782, 2358]	5483	[970, 1637]	7707	[2821, 8232]
1036	[1870, 242]	3260	[4783, 4630]	5484	[6397, 100]	7708	[8233, 7902]
1037	[1871, 641]	3261	[4784, 4785]	5485	[6758, 1045]	7709	[8021, 1489]
1038	[1872, 1873]	3262	[4786, 4787]	5486	[6383, 6759]	7710	[6355, 6528]
1039	[1874, 899]	3263	[4788, 602]	5487	[6483, 6760]	7711	[6790, 5960]
1040	[1875, 1673]	3264	[4789, 4622]	5488	[4162, 3241]	7712	[8234, 8235]
1041	[153, 1876]	3265	[4790, 4791]	5489	[6761, 72]	7713	[6303, 8236]
1042	[1877, 1878]	3266	[4792, 4793]	5490	[5943, 4090]	7714	[3568, 6179]
1043	[1879, 1880]	3267	[4794, 4795]	5491	[6762, 6763]	7715	[6681, 8237]
1044	[1881, 223]	3268	[2684, 54]	5492	[6764, 5801]	7716	[8238, 3403]
1045	[1882, 1883]	3269	[1794, 706]	5493	[3759, 3851]	7717	[8113, 5825]
1046	[1884, 1885]	3270	[4796, 4797]	5494	[367, 2961]	7718	[8239, 472]
1047	[1886, 666]	3271	[4798, 148]	5495	[6074, 3291]	7719	[3175, 3712]
1048	[1887, 1888]	3272	[4799, 855]	5496	[1529, 1441]	7720	[8240, 3373]
1049	[1889, 1890]	3273	[4800, 4801]	5497	[336, 6765]	7721	[7891, 1271]
1050	[597, 1891]	3274	[4802, 881]	5498	[3819, 6752]	7722	[8241, 1333]
1051	[1892, 1893]	3275	[2596, 2137]	5499	[917, 4086]	7723	[8242, 2801]
1052	[645, 1894]	3276	[4803, 4804]	5500	[6766, 1074]	7724	[3902, 6903]
1053	[1735, 1895]	3277	[4805, 4806]	5501	[6767, 2813]	7725	[3246, 8243]
1054	[1896, 1897]	3278	[2589, 4733]	5502	[6768, 6263]	7726	[8244, 6594]

1055	[1898, 1899]	3279	[4807, 2551]	5503	[6197, 6240]	7727	[5746, 6474]
1056	[1900, 1901]	3280	[4808, 4809]	5504	[6769, 5994]	7728	[6799, 305]
1057	[1902, 1903]	3281	[654, 707]	5505	[5937, 3082]	7729	[8245, 6319]
1058	[1904, 1905]	3282	[4628, 848]	5506	[3398, 6413]	7730	[8246, 8247]
1059	[1906, 1907]	3283	[4553, 4379]	5507	[309, 6140]	7731	[3819, 6751]
1060	[1908, 1909]	3284	[580, 4700]	5508	[6770, 6771]	7732	[8248, 2264]
1061	[1910, 1911]	3285	[4444, 147]	5509	[6772, 3016]	7733	[8249, 7306]
1062	[1912, 1913]	3286	[675, 4810]	5510	[1433, 3556]	7734	[5364, 7015]
1063	[752, 1914]	3287	[4811, 4789]	5511	[1469, 6773]	7735	[8250, 5335]
1064	[1915, 1916]	3288	[4812, 1693]	5512	[6774, 3570]	7736	[8251, 4244]
1065	[1738, 1915]	3289	[4813, 786]	5513	[6775, 6776]	7737	[5591, 37]
1066	[1917, 1918]	3290	[4814, 2080]	5514	[6196, 1583]	7738	[4917, 8252]
1067	[1919, 1920]	3291	[2316, 2742]	5515	[2850, 2883]	7739	[8253, 5083]
1068	[1921, 1922]	3292	[2244, 4815]	5516	[3842, 358]	7740	[7506, 2741]
1069	[1923, 1924]	3293	[2634, 4378]	5517	[6777, 3591]	7741	[8254, 4735]
1070	[1925, 635]	3294	[4682, 3920]	5518	[6778, 4108]	7742	[8255, 7344]
1071	[1926, 695]	3295	[4816, 2015]	5519	[4157, 2837]	7743	[8256, 4230]
1072	[531, 1927]	3296	[4817, 1822]	5520	[3473, 3579]	7744	[5547, 634]
1073	[1928, 1929]	3297	[1774, 4815]	5521	[6779, 4051]	7745	[8257, 8258]
1074	[1930, 1931]	3298	[4818, 2014]	5522	[1191, 4004]	7746	[8259, 8260]
1075	[1781, 1932]	3299	[1774, 2245]	5523	[6780, 6572]	7747	[181, 5074]
1076	[1933, 1674]	3300	[4681, 506]	5524	[6781, 6782]	7748	[1823, 8261]
1077	[1934, 1935]	3301	[4819, 2151]	5525	[6783, 5963]	7749	[546, 552]
1078	[1936, 1937]	3302	[1933, 4415]	5526	[6784, 6033]	7750	[8262, 5333]
1079	[1776, 1938]	3303	[4343, 631]	5527	[3536, 3132]	7751	[4726, 6987]
1080	[1939, 1940]	3304	[4820, 1792]	5528	[3754, 346]	7752	[8263, 1950]
1081	[1941, 1942]	3305	[668, 647]	5529	[6785, 1218]	7753	[4961, 8264]
1082	[1943, 1944]	3306	[4821, 4822]	5530	[1451, 6456]	7754	[8265, 8266]
1083	[1945, 1946]	3307	[4823, 2026]	5531	[6786, 6787]	7755	[8267, 4988]
1084	[1947, 1948]	3308	[4824, 4825]	5532	[6788, 1184]	7756	[5157, 7447]
1085	[1949, 1950]	3309	[2198, 4826]	5533	[6789, 2794]	7757	[625, 2667]
1086	[1951, 1952]	3310	[4665, 4793]	5534	[6790, 3074]	7758	[2513, 7378]
1087	[1953, 1954]	3311	[4692, 623]	5535	[6791, 1215]	7759	[4932, 2357]
1088	[1955, 1956]	3312	[4827, 1697]	5536	[6792, 6439]	7760	[4266, 7196]
1089	[1957, 1958]	3313	[2115, 4828]	5537	[3681, 3736]	7761	[8268, 5186]
1090	[1959, 1932]	3314	[4829, 4830]	5538	[6793, 82]	7762	[8269, 4227]
1091	[1960, 1961]	3315	[4831, 1844]	5539	[1292, 2920]	7763	[5113, 7555]
1092	[1962, 596]	3316	[4412, 4832]	5540	[373, 5752]	7764	[6916, 4895]
1093	[1963, 1964]	3317	[4833, 4834]	5541	[3393, 6794]	7765	[8270, 7675]
1094	[1965, 1966]	3318	[776, 2484]	5542	[6762, 6795]	7766	[7312, 826]
1095	[1967, 1968]	3319	[663, 171]	5543	[3871, 396]	7767	[8271, 787]
1096	[1969, 1970]	3320	[4835, 141]	5544	[6756, 3275]	7768	[7179, 5585]
1097	[1971, 1972]	3321	[244, 4836]	5545	[6796, 6797]	7769	[8272, 4640]
1098	[690, 218]	3322	[691, 4245]	5546	[6548, 6798]	7770	[8273, 8274]

1099	[1973, 1799]	3323	[4837, 4838]	5547	[6089, 1196]	7771	[8275, 8276]
1100	[1974, 1975]	3324	[4839, 4297]	5548	[6799, 957]	7772	[8277, 7445]
1101	[1976, 1977]	3325	[4840, 187]	5549	[6800, 6459]	7773	[8278, 5472]
1102	[1978, 1979]	3326	[4841, 2728]	5550	[5680, 3682]	7774	[2082, 7066]
1103	[1980, 1981]	3327	[4842, 4247]	5551	[6801, 4044]	7775	[8279, 7686]
1104	[1982, 1983]	3328	[4843, 4844]	5552	[6802, 1313]	7776	[8280, 8281]
1105	[1984, 1874]	3329	[4845, 4846]	5553	[3635, 6803]	7777	[5338, 8282]
1106	[1985, 1986]	3330	[4847, 4848]	5554	[6804, 6805]	7778	[834, 4494]
1107	[1673, 1987]	3331	[4849, 4850]	5555	[6806, 3459]	7779	[4569, 7698]
1108	[1988, 1989]	3332	[4851, 4852]	5556	[6807, 5925]	7780	[8283, 6915]
1109	[1990, 1991]	3333	[2043, 4853]	5557	[3295, 6808]	7781	[4924, 4349]
1110	[1992, 1993]	3334	[4441, 2663]	5558	[6809, 6810]	7782	[8284, 4430]
1111	[1870, 1994]	3335	[4854, 595]	5559	[6811, 6812]	7783	[1840, 4274]
1112	[1995, 1996]	3336	[43, 4855]	5560	[6813, 2829]	7784	[8285, 7483]
1113	[1997, 1998]	3337	[4856, 4857]	5561	[6814, 3337]	7785	[8286, 2627]
1114	[1999, 2000]	3338	[1959, 1782]	5562	[6147, 3912]	7786	[8287, 8288]
1115	[2001, 2002]	3339	[4858, 4859]	5563	[6815, 3559]	7787	[8289, 2616]
1116	[2003, 2004]	3340	[4860, 637]	5564	[6809, 6816]	7788	[4528, 4304]
1117	[2005, 2006]	3341	[693, 832]	5565	[6084, 6759]	7789	[8290, 8276]
1118	[2007, 1913]	3342	[4861, 2605]	5566	[6691, 266]	7790	[2421, 7460]
1119	[2008, 2009]	3343	[1910, 4862]	5567	[4171, 2940]	7791	[8291, 488]
1120	[2010, 2011]	3344	[4853, 4863]	5568	[6817, 6818]	7792	[7555, 911]
1121	[2012, 2013]	3345	[4864, 4865]	5569	[6819, 5972]	7793	[898, 2101]
1122	[2014, 2015]	3346	[4866, 4350]	5570	[6254, 3860]	7794	[7091, 2360]
1123	[2016, 2017]	3347	[2733, 4867]	5571	[3509, 3632]	7795	[1656, 4776]
1124	[2018, 2019]	3348	[4868, 2483]	5572	[6820, 6821]	7796	[7003, 4655]
1125	[2020, 719]	3349	[4869, 4870]	5573	[6822, 6823]	7797	[8292, 8293]
1126	[2021, 1718]	3350	[4871, 4872]	5574	[6067, 6824]	7798	[5059, 4914]
1127	[2022, 2023]	3351	[4873, 659]	5575	[1631, 6825]	7799	[5537, 5271]
1128	[676, 2024]	3352	[4490, 4874]	5576	[6826, 3040]	7800	[8294, 8295]
1129	[2025, 2026]	3353	[4875, 1861]	5577	[6665, 3031]	7801	[7621, 5244]
1130	[2027, 1931]	3354	[4227, 4876]	5578	[993, 6827]	7802	[4323, 8296]
1131	[2028, 1849]	3355	[4877, 4878]	5579	[6828, 6617]	7803	[8297, 7198]
1132	[2029, 2030]	3356	[1868, 4867]	5580	[6829, 6642]	7804	[7601, 7674]
1133	[2031, 210]	3357	[4879, 4880]	5581	[3434, 3514]	7805	[4287, 5564]
1134	[2032, 2033]	3358	[4881, 2458]	5582	[6701, 6346]	7806	[1934, 8298]
1135	[2034, 2035]	3359	[4882, 4304]	5583	[6830, 6831]	7807	[4292, 4832]
1136	[2036, 865]	3360	[2254, 4883]	5584	[6832, 6707]	7808	[7346, 8299]
1137	[2037, 2038]	3361	[1698, 2254]	5585	[6833, 6834]	7809	[8300, 5246]
1138	[2039, 1663]	3362	[4884, 4333]	5586	[6835, 6836]	7810	[8301, 4709]
1139	[2040, 2041]	3363	[4885, 4886]	5587	[6388, 3199]	7811	[8302, 7111]
1140	[2042, 2043]	3364	[4887, 2463]	5588	[6837, 1301]	7812	[8303, 8304]
1141	[2044, 2045]	3365	[4888, 4889]	5589	[6181, 6129]	7813	[173, 8305]
1142	[1668, 2046]	3366	[4221, 4890]	5590	[6838, 6839]	7814	[7332, 4983]

1143	[2047, 2048]	3367	[4891, 4555]	5591	[972, 77]	7815	[8306, 4441]
1144	[2049, 2050]	3368	[4892, 2625]	5592	[6221, 5810]	7816	[2110, 4976]
1145	[1808, 2051]	3369	[2298, 606]	5593	[421, 3600]	7817	[2591, 1862]
1146	[2052, 2053]	3370	[4893, 2033]	5594	[5739, 1639]	7818	[8307, 2386]
1147	[2054, 2055]	3371	[4894, 4895]	5595	[6443, 6840]	7819	[8308, 5468]
1148	[754, 2056]	3372	[1842, 2721]	5596	[3954, 6841]	7820	[8309, 7229]
1149	[2057, 2058]	3373	[4896, 4897]	5597	[6842, 6843]	7821	[5592, 5020]
1150	[2059, 2060]	3374	[4898, 4728]	5598	[6844, 6256]	7822	[8310, 4320]
1151	[2061, 2062]	3375	[4899, 4900]	5599	[6845, 6846]	7823	[5320, 7392]
1152	[743, 2063]	3376	[4901, 2104]	5600	[3938, 6847]	7824	[2070, 8311]
1153	[2064, 2065]	3377	[4902, 4903]	5601	[6848, 6849]	7825	[650, 534]
1154	[2066, 2067]	3378	[4904, 2252]	5602	[6484, 6850]	7826	[4694, 7657]
1155	[2068, 2069]	3379	[4905, 4574]	5603	[6851, 3387]	7827	[4242, 2656]
1156	[2070, 2071]	3380	[4906, 4907]	5604	[429, 2920]	7828	[7033, 869]
1157	[2072, 2073]	3381	[4908, 4909]	5605	[6852, 6853]	7829	[1841, 2720]
1158	[2074, 2075]	3382	[4910, 4764]	5606	[1343, 4097]	7830	[7573, 5058]
1159	[2076, 2077]	3383	[4911, 2198]	5607	[5903, 3458]	7831	[7100, 5261]
1160	[2078, 2079]	3384	[4704, 4239]	5608	[2795, 2910]	7832	[4727, 4560]
1161	[2080, 2081]	3385	[2612, 4912]	5609	[6854, 6133]	7833	[626, 2668]
1162	[2082, 1797]	3386	[4913, 4914]	5610	[6855, 5691]	7834	[7396, 874]
1163	[1974, 2083]	3387	[4915, 4916]	5611	[4059, 6856]	7835	[2166, 657]
1164	[2084, 2085]	3388	[4917, 4918]	5612	[6857, 6858]	7836	[7612, 8312]
1165	[2086, 2087]	3389	[4919, 2257]	5613	[5747, 6495]	7837	[7710, 7285]
1166	[2088, 2089]	3390	[4920, 2060]	5614	[412, 3251]	7838	[8313, 2069]
1167	[2090, 2091]	3391	[1722, 718]	5615	[6859, 3500]	7839	[554, 2643]
1168	[2092, 2093]	3392	[4921, 4562]	5616	[1249, 6860]	7840	[5256, 7606]
1169	[175, 2094]	3393	[4922, 1908]	5617	[6861, 1468]	7841	[6969, 7260]
1170	[2095, 2096]	3394	[4923, 4924]	5618	[6862, 6863]	7842	[8314, 6913]
1171	[2097, 2098]	3395	[634, 4925]	5619	[1296, 1412]	7843	[4877, 7631]
1172	[2099, 2100]	3396	[4746, 833]	5620	[6864, 1264]	7844	[7069, 7042]
1173	[2101, 756]	3397	[4783, 4926]	5621	[6865, 3741]	7845	[8315, 5631]
1174	[2102, 2103]	3398	[4927, 4928]	5622	[6866, 6444]	7846	[5490, 4760]
1175	[2104, 2105]	3399	[1860, 4929]	5623	[6298, 6718]	7847	[5548, 7561]
1176	[2106, 159]	3400	[4930, 4322]	5624	[6867, 1074]	7848	[7344, 4446]
1177	[2107, 2108]	3401	[4931, 4932]	5625	[5809, 6522]	7849	[768, 4890]
1178	[48, 2109]	3402	[4933, 4934]	5626	[3303, 4139]	7850	[7269, 7543]
1179	[2110, 2111]	3403	[4935, 4260]	5627	[3539, 3770]	7851	[2616, 8316]
1180	[2112, 1865]	3404	[4936, 4937]	5628	[388, 6868]	7852	[481, 2044]
1181	[2113, 771]	3405	[4938, 4504]	5629	[6869, 6870]	7853	[550, 6989]
1182	[2114, 830]	3406	[4810, 745]	5630	[6871, 4211]	7854	[8317, 2077]
1183	[2115, 2116]	3407	[4939, 4940]	5631	[6872, 6873]	7855	[8318, 4940]
1184	[2117, 2118]	3408	[4941, 4942]	5632	[6874, 1298]	7856	[8319, 2751]
1185	[2119, 2120]	3409	[4943, 621]	5633	[1390, 6875]	7857	[8320, 2351]
1186	[795, 2121]	3410	[4944, 692]	5634	[3350, 2996]	7858	[883, 2022]

1187	[2122, 2123]	3411	[2583, 4945]	5635	[6190, 3728]	7859	[7120, 7716]
1188	[155, 2124]	3412	[4946, 4947]	5636	[6876, 2870]	7860	[2183, 8321]
1189	[2125, 2126]	3413	[2355, 4948]	5637	[6877, 6878]	7861	[8322, 7370]
1190	[2127, 500]	3414	[4949, 2390]	5638	[3182, 6773]	7862	[1925, 4925]
1191	[2128, 2129]	3415	[4950, 4951]	5639	[6879, 6880]	7863	[4447, 7477]
1192	[2130, 2131]	3416	[4952, 2595]	5640	[6881, 3815]	7864	[8323, 8324]
1193	[2132, 2133]	3417	[656, 495]	5641	[6882, 6091]	7865	[5171, 7699]
1194	[2134, 1749]	3418	[651, 907]	5642	[3939, 3769]	7866	[8325, 8326]
1195	[2135, 1751]	3419	[4367, 4953]	5643	[6883, 3324]	7867	[4974, 8298]
1196	[2136, 2137]	3420	[4709, 4954]	5644	[3744, 1476]	7868	[596, 4795]
1197	[1832, 2138]	3421	[4955, 2123]	5645	[6884, 6885]	7869	[8327, 1866]
1198	[2139, 524]	3422	[538, 794]	5646	[1090, 6886]	7870	[1661, 5404]
1199	[2140, 2141]	3423	[4956, 848]	5647	[995, 1569]	7871	[8328, 8329]
1200	[874, 2142]	3424	[4957, 4436]	5648	[3395, 3343]	7872	[8330, 7647]
1201	[2143, 2144]	3425	[4958, 4959]	5649	[5897, 4029]	7873	[2310, 7339]
1202	[2145, 2146]	3426	[1761, 753]	5650	[6887, 6888]	7874	[7058, 4736]
1203	[2147, 2148]	3427	[4382, 656]	5651	[6889, 3374]	7875	[7079, 1687]
1204	[2149, 849]	3428	[4960, 4961]	5652	[6616, 3307]	7876	[4851, 7050]
1205	[2150, 2151]	3429	[4962, 4312]	5653	[3983, 3980]	7877	[8331, 8332]
1206	[2152, 2153]	3430	[4605, 195]	5654	[6890, 6891]	7878	[8333, 5388]
1207	[2154, 2155]	3431	[843, 4963]	5655	[6892, 4174]	7879	[5341, 5523]
1208	[2156, 2157]	3432	[2266, 559]	5656	[4003, 3663]	7880	[8334, 8335]
1209	[2158, 2159]	3433	[4964, 4965]	5657	[6893, 6127]	7881	[4995, 8336]
1210	[2160, 2161]	3434	[4966, 4335]	5658	[1445, 3990]	7882	[4848, 2689]
1211	[584, 1810]	3435	[4967, 1729]	5659	[297, 6514]	7883	[8337, 1668]
1212	[2162, 1966]	3436	[576, 853]	5660	[5694, 5832]	7884	[816, 7173]
1213	[2163, 2164]	3437	[191, 4968]	5661	[6894, 6895]	7885	[7302, 8338]
1214	[2165, 2166]	3438	[693, 4408]	5662	[6144, 6896]	7886	[8339, 2699]
1215	[2167, 2168]	3439	[4969, 4970]	5663	[1546, 1093]	7887	[8340, 7665]
1216	[2169, 2170]	3440	[4971, 4862]	5664	[6897, 3106]	7888	[8341, 7509]
1217	[2171, 2172]	3441	[4972, 4973]	5665	[1072, 5782]	7889	[2492, 7687]
1218	[2173, 2174]	3442	[4974, 1935]	5666	[3252, 6898]	7890	[4289, 2255]
1219	[2175, 2176]	3443	[4975, 4490]	5667	[6899, 6900]	7891	[7314, 2565]
1220	[2177, 2178]	3444	[4779, 4976]	5668	[6901, 1467]	7892	[5082, 5535]
1221	[2179, 2180]	3445	[4826, 4977]	5669	[6003, 6225]	7893	[181, 2431]
1222	[2181, 2182]	3446	[627, 2450]	5670	[6902, 1434]	7894	[7542, 7270]
1223	[2183, 2184]	3447	[4978, 2736]	5671	[1142, 6903]	7895	[8342, 2139]
1224	[2185, 539]	3448	[4979, 4980]	5672	[6904, 6905]	7896	[2610, 8343]
1225	[2186, 2187]	3449	[4981, 2417]	5673	[6906, 4417]	7897	[8344, 7565]
1226	[2188, 625]	3450	[4982, 4500]	5674	[6907, 6908]	7898	[8345, 5516]
1227	[2189, 2190]	3451	[4983, 4907]	5675	[620, 6909]	7899	[4977, 4475]
1228	[2191, 1699]	3452	[4984, 4985]	5676	[6910, 6911]	7900	[8346, 8274]
1229	[1767, 2192]	3453	[4986, 4987]	5677	[6912, 6913]	7901	[7218, 8347]
1230	[2193, 2194]	3454	[4988, 2648]	5678	[6914, 6915]	7902	[8348, 1882]

1231	[2195, 1820]	3455	[4989, 2019]	5679	[1991, 6916]	7903	[8349, 789]
1232	[2196, 2197]	3456	[47, 2155]	5680	[755, 5252]	7904	[8350, 8293]
1233	[2198, 2131]	3457	[4990, 4991]	5681	[501, 6917]	7905	[1805, 2618]
1234	[2199, 598]	3458	[547, 553]	5682	[6918, 2710]	7906	[1779, 720]
1235	[2200, 2201]	3459	[483, 232]	5683	[2266, 6919]	7907	[8351, 7683]
1236	[2202, 1834]	3460	[4992, 2740]	5684	[6920, 5155]	7908	[6968, 2733]
1237	[2203, 11]	3461	[4993, 4553]	5685	[2320, 2764]	7909	[2254, 4583]
1238	[2204, 13]	3462	[214, 4565]	5686	[2701, 5375]	7910	[4539, 4299]
1239	[724, 2205]	3463	[4994, 4519]	5687	[1837, 745]	7911	[7660, 5377]
1240	[2206, 1770]	3464	[2250, 4995]	5688	[5249, 6921]	7912	[8352, 8353]
1241	[2207, 2208]	3465	[582, 774]	5689	[2553, 6922]	7913	[8354, 2490]
1242	[2209, 2210]	3466	[4996, 2511]	5690	[6923, 2547]	7914	[2083, 5488]
1243	[2211, 1786]	3467	[1782, 2501]	5691	[2510, 4617]	7915	[8355, 2257]
1244	[2212, 1929]	3468	[4743, 1926]	5692	[6924, 4257]	7916	[2563, 5345]
1245	[2213, 2214]	3469	[4997, 2178]	5693	[6925, 6926]	7917	[4710, 5452]
1246	[2215, 889]	3470	[4998, 2201]	5694	[810, 5213]	7918	[8356, 7367]
1247	[2216, 843]	3471	[4999, 1979]	5695	[6927, 2139]	7919	[8357, 2050]
1248	[2217, 1956]	3472	[5000, 1768]	5696	[5204, 2476]	7920	[7137, 8321]
1249	[2218, 2219]	3473	[2617, 1806]	5697	[6928, 6929]	7921	[8358, 5654]
1250	[2220, 2221]	3474	[5001, 2247]	5698	[884, 6930]	7922	[8359, 7240]
1251	[2222, 2223]	3475	[5002, 5003]	5699	[2557, 6931]	7923	[8360, 7454]
1252	[2224, 2225]	3476	[5004, 4341]	5700	[6932, 4664]	7924	[7067, 504]
1253	[2226, 2227]	3477	[5005, 575]	5701	[6933, 2675]	7925	[8361, 2649]
1254	[2228, 2229]	3478	[2743, 4828]	5702	[53, 2575]	7926	[8362, 165]
1255	[2230, 2231]	3479	[4693, 624]	5703	[667, 2577]	7927	[8363, 2025]
1256	[2232, 2233]	3480	[5006, 2166]	5704	[6934, 6935]	7928	[2272, 5451]
1257	[2234, 2235]	3481	[5007, 5008]	5705	[6936, 5278]	7929	[1917, 1919]
1258	[2236, 2237]	3482	[5009, 2502]	5706	[6937, 6938]	7930	[7514, 7610]
1259	[2238, 2239]	3483	[5010, 2392]	5707	[4976, 5581]	7931	[8308, 4633]
1260	[2240, 1754]	3484	[5011, 2513]	5708	[4860, 4237]	7932	[8360, 8364]
1261	[499, 2241]	3485	[2678, 4465]	5709	[4332, 6939]	7933	[8365, 7244]
1262	[2242, 2243]	3486	[2127, 2241]	5710	[2439, 2563]	7934	[5571, 8366]
1263	[2244, 2245]	3487	[5012, 2190]	5711	[2621, 6940]	7935	[2683, 188]
1264	[2246, 2247]	3488	[5013, 5014]	5712	[2276, 5510]	7936	[2135, 4489]
1265	[767, 2248]	3489	[2278, 1846]	5713	[5333, 6941]	7937	[7576, 8367]
1266	[646, 669]	3490	[5015, 562]	5714	[6942, 2507]	7938	[8368, 8369]
1267	[2249, 2250]	3491	[5016, 4703]	5715	[5149, 6943]	7939	[8370, 2091]
1268	[2181, 2251]	3492	[4362, 207]	5716	[6944, 6945]	7940	[8371, 2371]
1269	[2252, 2253]	3493	[5017, 2042]	5717	[6946, 49]	7941	[8372, 7180]
1270	[569, 2254]	3494	[763, 1851]	5718	[6947, 6948]	7942	[5232, 7362]
1271	[2255, 2256]	3495	[5018, 4680]	5719	[6949, 1853]	7943	[8373, 8374]
1272	[2257, 2258]	3496	[5019, 910]	5720	[4459, 6950]	7944	[4246, 8375]
1273	[2259, 166]	3497	[4600, 5020]	5721	[6951, 6952]	7945	[8376, 662]
1274	[2260, 2261]	3498	[5021, 5022]	5722	[6953, 6954]	7946	[5566, 5079]

1275	[2262, 866]	3499	[1705, 5023]	5723	[2500, 1899]	7947	[7405, 1998]
1276	[2263, 2264]	3500	[5024, 5025]	5724	[6955, 4494]	7948	[709, 8327]
1277	[2265, 2266]	3501	[5026, 2365]	5725	[2766, 5561]	7949	[8377, 7189]
1278	[2267, 861]	3502	[4296, 4278]	5726	[2396, 2006]	7950	[2505, 7615]
1279	[2268, 2269]	3503	[1993, 5027]	5727	[2498, 5210]	7951	[7063, 8378]
1280	[2270, 2271]	3504	[5028, 1958]	5728	[6956, 6957]	7952	[5247, 8379]
1281	[2272, 2273]	3505	[845, 240]	5729	[6958, 4477]	7953	[8380, 5495]
1282	[2274, 2275]	3506	[2098, 2396]	5730	[1654, 6959]	7954	[8381, 8382]
1283	[777, 2276]	3507	[5029, 4296]	5731	[4916, 5025]	7955	[671, 8383]
1284	[2277, 565]	3508	[5030, 5031]	5732	[6960, 4677]	7956	[8264, 7656]
1285	[2278, 2279]	3509	[5032, 2696]	5733	[188, 5603]	7957	[8384, 5460]
1286	[2280, 2281]	3510	[5033, 2539]	5734	[5340, 2608]	7958	[8362, 8385]
1287	[166, 2282]	3511	[5034, 1970]	5735	[6961, 6962]	7959	[2363, 4766]
1288	[2283, 42]	3512	[1737, 2634]	5736	[4324, 6963]	7960	[8305, 4665]
1289	[1778, 2282]	3513	[5035, 5036]	5737	[1988, 2769]	7961	[8386, 7242]
1290	[2284, 800]	3514	[4408, 2199]	5738	[6964, 6965]	7962	[8387, 7696]
1291	[2285, 883]	3515	[5037, 5038]	5739	[2534, 6931]	7963	[5656, 8366]
1292	[2286, 2148]	3516	[2477, 2085]	5740	[6966, 529]	7964	[2246, 4923]
1293	[146, 2287]	3517	[5039, 5040]	5741	[4987, 5455]	7965	[5168, 8388]
1294	[901, 2288]	3518	[780, 5041]	5742	[6967, 6968]	7966	[2086, 4903]
1295	[2289, 2290]	3519	[5042, 5043]	5743	[2330, 6969]	7967	[8389, 751]
1296	[1674, 2291]	3520	[11, 4995]	5744	[616, 4361]	7968	[2174, 7307]
1297	[2292, 2293]	3521	[1929, 5044]	5745	[1871, 822]	7969	[4669, 8390]
1298	[2294, 2295]	3522	[4816, 2012]	5746	[5128, 6970]	7970	[1837, 7720]
1299	[2296, 1728]	3523	[4378, 1916]	5747	[5127, 722]	7971	[5306, 8391]
1300	[753, 2297]	3524	[2601, 4549]	5748	[6971, 1676]	7972	[2081, 2716]
1301	[528, 2298]	3525	[5045, 5046]	5749	[4239, 4235]	7973	[8257, 8392]
1302	[2299, 481]	3526	[2482, 4285]	5750	[6972, 5143]	7974	[7068, 7320]
1303	[2300, 2301]	3527	[873, 1746]	5751	[6973, 4356]	7975	[8393, 2564]
1304	[59, 2302]	3528	[5047, 4750]	5752	[6974, 6962]	7976	[7044, 2415]
1305	[2303, 2079]	3529	[5048, 4785]	5753	[6975, 5321]	7977	[2173, 7491]
1306	[2304, 2305]	3530	[807, 4564]	5754	[5154, 4809]	7978	[496, 4942]
1307	[2306, 2307]	3531	[4743, 694]	5755	[229, 175]	7979	[8394, 7534]
1308	[2308, 2233]	3532	[5049, 4834]	5756	[6976, 6977]	7980	[5418, 1982]
1309	[2309, 233]	3533	[5029, 4277]	5757	[4564, 5413]	7981	[6926, 6936]
1310	[2310, 697]	3534	[2373, 5050]	5758	[4435, 5594]	7982	[8395, 7534]
1311	[2311, 2312]	3535	[5051, 906]	5759	[6973, 2219]	7983	[8396, 5412]
1312	[779, 2174]	3536	[5052, 2266]	5760	[6978, 4811]	7984	[1892, 7571]
1313	[2313, 2314]	3537	[5053, 4402]	5761	[4956, 2149]	7985	[5437, 7053]
1314	[2315, 2316]	3538	[5054, 5055]	5762	[6979, 6980]	7986	[203, 5619]
1315	[2317, 2318]	3539	[5056, 1944]	5763	[6981, 2671]	7987	[2199, 1891]
1316	[1695, 2319]	3540	[5057, 5058]	5764	[5560, 2767]	7988	[7540, 7383]
1317	[1754, 1692]	3541	[231, 4915]	5765	[6982, 5291]	7989	[8397, 8288]
1318	[2320, 2321]	3542	[5059, 31]	5766	[36, 4236]	7990	[206, 4363]

1319	[2322, 2323]	3543	[213, 4564]	5767	[6983, 5661]	7991	[8398, 7135]
1320	[2324, 2325]	3544	[5060, 2694]	5768	[6984, 4389]	7992	[5589, 7187]
1321	[2326, 2327]	3545	[5061, 5062]	5769	[5527, 5149]	7993	[8399, 2096]
1322	[2328, 819]	3546	[5063, 4762]	5770	[557, 4821]	7994	[5257, 8261]
1323	[2329, 851]	3547	[5064, 4956]	5771	[6985, 6986]	7995	[8400, 8401]
1324	[2330, 2331]	3548	[5065, 5066]	5772	[6987, 487]	7996	[7629, 542]
1325	[685, 2104]	3549	[5067, 1993]	5773	[6988, 2439]	7997	[8402, 8403]
1326	[2332, 2333]	3550	[739, 2405]	5774	[6989, 2639]	7998	[8404, 7633]
1327	[2334, 2103]	3551	[226, 5068]	5775	[5252, 2727]	7999	[4503, 7465]
1328	[2335, 2336]	3552	[5069, 1741]	5776	[4264, 5076]	8000	[5579, 8367]
1329	[2337, 2338]	3553	[4409, 1873]	5777	[6990, 4737]	8001	[1747, 4567]
1330	[2339, 2340]	3554	[5070, 2380]	5778	[6991, 1972]	8002	[5621, 7574]
1331	[2341, 225]	3555	[5071, 5072]	5779	[4972, 5110]	8003	[2231, 4422]
1332	[2342, 2343]	3556	[2479, 4321]	5780	[6992, 2625]	8004	[7425, 5468]
1333	[815, 2344]	3557	[4815, 505]	5781	[1914, 841]	8005	[8405, 8406]
1334	[2345, 2346]	3558	[5073, 5074]	5782	[6993, 2475]	8006	[2368, 2424]
1335	[873, 903]	3559	[5075, 2700]	5783	[2587, 6994]	8007	[1987, 2698]
1336	[1714, 1723]	3560	[2544, 2]	5784	[4645, 6995]	8008	[8407, 5077]
1337	[2347, 867]	3561	[4506, 5076]	5785	[6996, 5433]	8009	[8408, 2677]
1338	[521, 2114]	3562	[5077, 5078]	5786	[6997, 4897]	8010	[7453, 8364]
1339	[2348, 2349]	3563	[4941, 61]	5787	[234, 4945]	8011	[5220, 4742]
1340	[2350, 1750]	3564	[1665, 5079]	5788	[6998, 6999]	8012	[7228, 1971]
1341	[2351, 2352]	3565	[5080, 5081]	5789	[7000, 4349]	8013	[801, 807]
1342	[2353, 2354]	3566	[5082, 4781]	5790	[493, 5507]	8014	[8409, 7012]
1343	[2355, 2356]	3567	[5083, 5084]	5791	[2550, 2353]	8015	[4478, 5065]
1344	[2357, 2358]	3568	[5085, 4530]	5792	[7001, 5372]	8016	[8410, 8411]
1345	[2359, 2360]	3569	[5086, 5065]	5793	[7002, 5084]	8017	[8412, 7639]
1346	[2361, 2362]	3570	[5087, 5088]	5794	[7003, 7004]	8018	[8413, 7304]
1347	[2363, 1708]	3571	[1881, 5089]	5795	[2018, 4325]	8019	[8370, 5416]
1348	[2364, 2365]	3572	[664, 4597]	5796	[2304, 7005]	8020	[7663, 7106]
1349	[2366, 2367]	3573	[5090, 5043]	5797	[4420, 2231]	8021	[5474, 6917]
1350	[2368, 2223]	3574	[5091, 1804]	5798	[7006, 2758]	8022	[4629, 4926]
1351	[2369, 2370]	3575	[5092, 5093]	5799	[7007, 40]	8023	[8414, 8415]
1352	[2371, 2372]	3576	[5094, 4987]	5800	[4795, 7008]	8024	[4626, 2003]
1353	[721, 2373]	3577	[4542, 5095]	5801	[7009, 7010]	8025	[8416, 5440]
1354	[560, 1964]	3578	[5096, 2531]	5802	[7011, 7012]	8026	[5665, 8417]
1355	[1736, 2374]	3579	[5097, 5098]	5803	[7013, 2587]	8027	[8418, 4393]
1356	[2359, 2375]	3580	[730, 4672]	5804	[7014, 7015]	8028	[8419, 4624]
1357	[2376, 2377]	3581	[2722, 5099]	5805	[7016, 5319]	8029	[5129, 1730]
1358	[2095, 2378]	3582	[5100, 876]	5806	[7017, 2621]	8030	[8420, 8258]
1359	[2379, 2380]	3583	[5101, 2697]	5807	[2160, 737]	8031	[4718, 7077]
1360	[2381, 2382]	3584	[5102, 1897]	5808	[2672, 2654]	8032	[4684, 2492]
1361	[2383, 2384]	3585	[4836, 2313]	5809	[4640, 2509]	8033	[8421, 5637]
1362	[2262, 2347]	3586	[2237, 4527]	5810	[7018, 1766]	8034	[8422, 8423]

1363	[2385, 2386]	3587	[5103, 5104]	5811	[7019, 5163]	8035	[5652, 2022]
1364	[2387, 2388]	3588	[5105, 5106]	5812	[4589, 668]	8036	[8424, 7514]
1365	[2389, 2390]	3589	[1657, 4777]	5813	[7020, 7021]	8037	[8425, 860]
1366	[2391, 1937]	3590	[4404, 2035]	5814	[4900, 759]	8038	[583, 1809]
1367	[2392, 2393]	3591	[5107, 4379]	5815	[2593, 2094]	8039	[8426, 7623]
1368	[2394, 2395]	3592	[5108, 1886]	5816	[2408, 485]	8040	[5137, 7378]
1369	[2396, 2397]	3593	[138, 178]	5817	[4255, 820]	8041	[49, 5393]
1370	[2398, 2053]	3594	[5109, 5110]	5818	[4986, 7022]	8042	[5602, 8427]
1371	[2399, 892]	3595	[5111, 4470]	5819	[2195, 5509]	8043	[8428, 8429]
1372	[2400, 2401]	3596	[5112, 2490]	5820	[685, 7023]	8044	[5007, 7595]
1373	[2402, 2403]	3597	[5113, 910]	5821	[1797, 4839]	8045	[817, 7174]
1374	[2404, 2405]	3598	[4329, 5114]	5822	[7024, 7025]	8046	[4361, 8430]
1375	[2406, 2362]	3599	[2406, 5115]	5823	[162, 7026]	8047	[5264, 5660]
1376	[2407, 2408]	3600	[5116, 5117]	5824	[4649, 7027]	8048	[4935, 8431]
1377	[2409, 2410]	3601	[5118, 5119]	5825	[7028, 1741]	8049	[8432, 8433]
1378	[2411, 815]	3602	[5120, 4934]	5826	[5454, 777]	8050	[4653, 5172]
1379	[2412, 2413]	3603	[2608, 4598]	5827	[7029, 5505]	8051	[8434, 4365]
1380	[2414, 2415]	3604	[2414, 5121]	5828	[7030, 7031]	8052	[7297, 7291]
1381	[2416, 2417]	3605	[5122, 1745]	5829	[7032, 2224]	8053	[8435, 5077]
1382	[2241, 2418]	3606	[1884, 5123]	5830	[7033, 7034]	8054	[4920, 8436]
1383	[2419, 2420]	3607	[5124, 5125]	5831	[1858, 4307]	8055	[8437, 2135]
1384	[2116, 2308]	3608	[4590, 4559]	5832	[7035, 4806]	8056	[2155, 2109]
1385	[2421, 2422]	3609	[5126, 5127]	5833	[2038, 7036]	8057	[2450, 7280]
1386	[2423, 1968]	3610	[5128, 4646]	5834	[4871, 7025]	8058	[4959, 5273]
1387	[2222, 2424]	3611	[5129, 4336]	5835	[7037, 2217]	8059	[8438, 4961]
1388	[2425, 2426]	3612	[5130, 5131]	5836	[4535, 7038]	8060	[8439, 7283]
1389	[2427, 2428]	3613	[1679, 593]	5837	[4868, 1995]	8061	[8440, 8441]
1390	[563, 1821]	3614	[5132, 5133]	5838	[158, 5216]	8062	[5219, 4487]
1391	[2429, 2430]	3615	[5134, 2683]	5839	[7039, 5293]	8063	[2732, 5001]
1392	[2431, 2432]	3616	[5135, 216]	5840	[4802, 4927]	8064	[8420, 8392]
1393	[2433, 1980]	3617	[5136, 2659]	5841	[7040, 2126]	8065	[2571, 8442]
1394	[2434, 2435]	3618	[636, 4237]	5842	[7041, 4848]	8066	[641, 823]
1395	[2436, 2437]	3619	[5137, 2514]	5843	[1677, 5095]	8067	[7516, 5381]
1396	[2438, 1981]	3620	[5138, 5139]	5844	[5479, 2176]	8068	[5507, 8443]
1397	[2439, 1712]	3621	[4663, 4825]	5845	[2711, 7042]	8069	[847, 7173]
1398	[2440, 2441]	3622	[2108, 2098]	5846	[7043, 5370]	8070	[8444, 7205]
1399	[2442, 52]	3623	[5140, 4438]	5847	[2021, 4586]	8071	[5520, 8445]
1400	[2019, 2443]	3624	[856, 5114]	5848	[631, 2754]	8072	[8446, 5531]
1401	[802, 131]	3625	[5141, 4348]	5849	[4379, 2445]	8073	[7706, 725]
1402	[2444, 1814]	3626	[4678, 5142]	5850	[7044, 5121]	8074	[4582, 4883]
1403	[151, 681]	3627	[5143, 5144]	5851	[7045, 5545]	8075	[8447, 8448]
1404	[35, 2445]	3628	[1760, 539]	5852	[7046, 6975]	8076	[8449, 8266]
1405	[2446, 1784]	3629	[5145, 904]	5853	[4306, 1859]	8077	[8450, 2420]
1406	[2447, 53]	3630	[2578, 2556]	5854	[1752, 2340]	8078	[7254, 748]

1407	[1744, 2448]	3631	[4734, 888]	5855	[7047, 6926]	8079	[8451, 7332]
1408	[2449, 2024]	3632	[5146, 1747]	5856	[4516, 4725]	8080	[236, 807]
1409	[2450, 708]	3633	[814, 5147]	5857	[7048, 5661]	8081	[8452, 5154]
1410	[536, 2451]	3634	[5148, 752]	5858	[7049, 7050]	8082	[8453, 648]
1411	[2005, 2397]	3635	[5149, 5150]	5859	[2455, 7051]	8083	[1971, 8454]
1412	[2282, 2452]	3636	[2188, 5151]	5860	[7052, 5640]	8084	[8455, 7132]
1413	[2151, 1676]	3637	[5152, 2118]	5861	[4607, 4953]	8085	[556, 8442]
1414	[2453, 2454]	3638	[2408, 732]	5862	[7053, 5286]	8086	[5587, 8312]
1415	[2455, 2456]	3639	[5153, 5154]	5863	[876, 2120]	8087	[599, 8456]
1416	[2457, 2458]	3640	[2552, 5155]	5864	[7054, 5078]	8088	[8457, 7545]
1417	[1850, 2459]	3641	[4398, 1908]	5865	[4798, 4738]	8089	[4366, 4607]
1418	[1792, 2460]	3642	[5156, 5104]	5866	[7055, 4612]	8090	[571, 7506]
1419	[2461, 2352]	3643	[2451, 4517]	5867	[844, 239]	8091	[7637, 7547]
1420	[2462, 700]	3644	[4580, 4273]	5868	[1785, 4952]	8092	[4391, 5315]
1421	[1667, 2463]	3645	[5157, 4658]	5869	[4640, 820]	8093	[8323, 4462]
1422	[2464, 2465]	3646	[1945, 5158]	5870	[7056, 6980]	8094	[8458, 1717]
1423	[2466, 2467]	3647	[5159, 5160]	5871	[4729, 5197]	8095	[4283, 4636]
1424	[2468, 2469]	3648	[2528, 5161]	5872	[7057, 6977]	8096	[8459, 5116]
1425	[2470, 2471]	3649	[5162, 4484]	5873	[126, 2492]	8097	[8460, 4642]
1426	[2472, 2473]	3650	[5163, 544]	5874	[7058, 675]	8098	[7475, 7152]
1427	[2474, 2475]	3651	[2765, 5164]	5875	[2213, 530]	8099	[8461, 8462]
1428	[210, 2476]	3652	[5165, 1883]	5876	[7059, 5288]	8100	[8463, 2298]
1429	[500, 2418]	3653	[5166, 5167]	5877	[5472, 4889]	8101	[8464, 8465]
1430	[1979, 2477]	3654	[4616, 5168]	5878	[4979, 191]	8102	[8466, 7600]
1431	[2478, 812]	3655	[704, 5169]	5879	[2609, 4599]	8103	[8467, 7405]
1432	[128, 2479]	3656	[5170, 5171]	5880	[4256, 816]	8104	[8468, 5192]
1433	[2480, 2481]	3657	[5172, 2448]	5881	[4349, 5641]	8105	[8469, 578]
1434	[638, 2482]	3658	[178, 5173]	5882	[2750, 6924]	8106	[8470, 7702]
1435	[2483, 1996]	3659	[5174, 4621]	5883	[7060, 2187]	8107	[1951, 8462]
1436	[2484, 219]	3660	[5175, 5176]	5884	[4807, 517]	8108	[8471, 4649]
1437	[2485, 2486]	3661	[2014, 2012]	5885	[2249, 11]	8109	[7129, 2336]
1438	[2487, 2294]	3662	[2013, 2197]	5886	[7061, 798]	8110	[6972, 7287]
1439	[900, 2488]	3663	[5177, 2346]	5887	[4612, 2505]	8111	[8472, 5088]
1440	[2489, 2144]	3664	[731, 4673]	5888	[7062, 7063]	8112	[5563, 8311]
1441	[2490, 2491]	3665	[4450, 2499]	5889	[5303, 6959]	8113	[2059, 8436]
1442	[2492, 2493]	3666	[4999, 2622]	5890	[7064, 4678]	8114	[5335, 5394]
1443	[2494, 685]	3667	[5178, 902]	5891	[7065, 1905]	8115	[2191, 7371]
1444	[2495, 2496]	3668	[5179, 5180]	5892	[7066, 4839]	8116	[4290, 5573]
1445	[2497, 2498]	3669	[5181, 1825]	5893	[55, 4898]	8117	[5287, 5377]
1446	[1739, 2499]	3670	[5034, 5182]	5894	[7067, 4463]	8118	[4308, 7730]
1447	[1784, 2500]	3671	[5183, 5184]	5895	[2436, 7017]	8119	[5497, 542]
1448	[238, 38]	3672	[5185, 5186]	5896	[7068, 2624]	8120	[8465, 7412]
1449	[1932, 2501]	3673	[4700, 5187]	5897	[7069, 2712]	8121	[1702, 5218]
1450	[2427, 2502]	3674	[2230, 246]	5898	[7070, 616]	8122	[7481, 8473]

1451	[2503, 2504]	3675	[2044, 5188]	5899	[799, 7071]	8123	[8474, 1729]
1452	[2505, 2506]	3676	[5189, 5190]	5900	[7072, 901]	8124	[8475, 8476]
1453	[2507, 2508]	3677	[5191, 5192]	5901	[7073, 5133]	8125	[2717, 6995]
1454	[2509, 821]	3678	[5193, 2680]	5902	[7074, 547]	8126	[5354, 8477]
1455	[2510, 2511]	3679	[5194, 610]	5903	[2074, 2253]	8127	[8478, 6940]
1456	[2512, 10]	3680	[5195, 2762]	5904	[5061, 7075]	8128	[8479, 6938]
1457	[2513, 2514]	3681	[5196, 5197]	5905	[7076, 2372]	8129	[5544, 7592]
1458	[2515, 2516]	3682	[169, 177]	5906	[5009, 2428]	8130	[7642, 4536]
1459	[2517, 60]	3683	[629, 639]	5907	[2374, 562]	8131	[8480, 8332]
1460	[2518, 2519]	3684	[5198, 5199]	5908	[5647, 1901]	8132	[7466, 8481]
1461	[2192, 2520]	3685	[4486, 5068]	5909	[7077, 2248]	8133	[8482, 7721]
1462	[2521, 2522]	3686	[4488, 134]	5910	[2719, 7017]	8134	[4296, 8483]
1463	[1685, 1816]	3687	[5200, 4918]	5911	[2537, 804]	8135	[787, 5458]
1464	[2523, 2524]	3688	[5201, 5202]	5912	[2211, 4952]	8136	[8484, 8485]
1465	[2525, 2526]	3689	[5203, 2732]	5913	[803, 582]	8137	[244, 4982]
1466	[2527, 2528]	3690	[2031, 5204]	5914	[7078, 2357]	8138	[136, 7636]
1467	[2529, 567]	3691	[5072, 4414]	5915	[7079, 686]	8139	[7419, 7699]
1468	[2530, 2531]	3692	[5205, 2236]	5916	[7080, 5274]	8140	[7560, 4403]
1469	[2532, 2533]	3693	[1996, 5206]	5917	[7081, 5050]	8141	[2365, 192]
1470	[2534, 2535]	3694	[5207, 2023]	5918	[2453, 1954]	8142	[4714, 7480]
1471	[682, 2536]	3695	[5051, 5208]	5919	[7082, 5125]	8143	[5193, 8486]
1472	[2537, 489]	3696	[2384, 4258]	5920	[1691, 5348]	8144	[564, 2326]
1473	[2538, 2539]	3697	[5209, 4648]	5921	[5500, 2529]	8145	[8487, 1787]
1474	[2540, 2541]	3698	[1680, 594]	5922	[4509, 7083]	8146	[8488, 5496]
1475	[2542, 2543]	3699	[2245, 505]	5923	[7084, 7085]	8147	[8489, 8490]
1476	[2544, 2545]	3700	[1832, 5210]	5924	[2008, 2293]	8148	[8491, 8492]
1477	[1918, 1920]	3701	[5211, 5212]	5925	[7086, 7087]	8149	[8493, 8494]
1478	[2546, 2547]	3702	[5213, 5214]	5926	[7088, 2599]	8150	[8495, 7570]
1479	[2548, 2549]	3703	[5215, 4385]	5927	[7089, 7090]	8151	[2090, 5416]
1480	[1704, 679]	3704	[2106, 5216]	5928	[7091, 2375]	8152	[7488, 8496]
1481	[2550, 670]	3705	[5217, 5218]	5929	[1965, 5632]	8153	[4573, 7252]
1482	[2551, 518]	3706	[5219, 1722]	5930	[7092, 7093]	8154	[8497, 4527]
1483	[2552, 2553]	3707	[4290, 2256]	5931	[1791, 4731]	8155	[8498, 7729]
1484	[2554, 2221]	3708	[5220, 155]	5932	[7094, 2591]	8156	[7040, 57]
1485	[2555, 493]	3709	[535, 2580]	5933	[2498, 2138]	8157	[8499, 4858]
1486	[2137, 2556]	3710	[5221, 5222]	5934	[4223, 7095]	8158	[7630, 4878]
1487	[2557, 2535]	3711	[1889, 4912]	5935	[7096, 7097]	8159	[2434, 2048]
1488	[2558, 2559]	3712	[5223, 5224]	5936	[1717, 4586]	8160	[8500, 7695]
1489	[2560, 736]	3713	[5225, 2610]	5937	[7098, 1780]	8161	[8501, 2558]
1490	[2561, 2051]	3714	[2393, 1663]	5938	[7099, 244]	8162	[8502, 7288]
1491	[2562, 2153]	3715	[632, 5226]	5939	[32, 2321]	8163	[7503, 8503]
1492	[1711, 2563]	3716	[5227, 528]	5940	[4365, 786]	8164	[8504, 8382]
1493	[2564, 2565]	3717	[4635, 4284]	5941	[7100, 7101]	8165	[8505, 8403]
1494	[2189, 2300]	3718	[4438, 2661]	5942	[7102, 7103]	8166	[1780, 2635]

1495	[2566, 2519]	3719	[1922, 834]	5943	[4271, 2756]	8167	[5206, 4723]
1496	[2567, 2568]	3720	[5228, 5229]	5944	[1707, 4766]	8168	[7072, 2488]
1497	[2569, 2422]	3721	[4989, 4325]	5945	[4272, 4581]	8169	[2016, 2280]
1498	[2570, 2164]	3722	[5230, 5231]	5946	[7104, 7105]	8170	[5532, 8506]
1499	[2571, 557]	3723	[5232, 5233]	5947	[5635, 7106]	8171	[7376, 7618]
1500	[2572, 863]	3724	[1724, 5234]	5948	[7107, 2325]	8172	[5105, 8507]
1501	[591, 2573]	3725	[5235, 5236]	5949	[7108, 765]	8173	[8508, 8509]
1502	[2574, 2312]	3726	[5237, 5238]	5950	[5301, 2664]	8174	[8261, 829]
1503	[2575, 2576]	3727	[5239, 5240]	5951	[7109, 6945]	8175	[8510, 8511]
1504	[2577, 510]	3728	[5241, 5242]	5952	[7110, 4226]	8176	[4789, 7485]
1505	[2136, 2578]	3729	[4933, 5243]	5953	[1835, 526]	8177	[8512, 5326]
1506	[2579, 2580]	3730	[4977, 1856]	5954	[729, 2142]	8178	[4943, 6909]
1507	[2581, 2582]	3731	[4719, 5244]	5955	[7111, 750]	8179	[8513, 5047]
1508	[2583, 235]	3732	[5245, 5246]	5956	[7112, 7113]	8180	[880, 4927]
1509	[2584, 2585]	3733	[818, 4593]	5957	[2011, 614]	8181	[8387, 4838]
1510	[2586, 2587]	3734	[5247, 5248]	5958	[139, 5173]	8182	[5501, 7221]
1511	[2588, 2589]	3735	[526, 5249]	5959	[7114, 4836]	8183	[8514, 7227]
1512	[2461, 2590]	3736	[5250, 5251]	5960	[7115, 7005]	8184	[1952, 8515]
1513	[2591, 2004]	3737	[5252, 4841]	5961	[2297, 893]	8185	[2265, 558]
1514	[2384, 2592]	3738	[5253, 625]	5962	[7116, 538]	8186	[5414, 7672]
1515	[229, 2593]	3739	[2238, 588]	5963	[4843, 5142]	8187	[5212, 4523]
1516	[1740, 2594]	3740	[2746, 4394]	5964	[4479, 5066]	8188	[7507, 4804]
1517	[1786, 2595]	3741	[5254, 516]	5965	[7117, 672]	8189	[8516, 8517]
1518	[2596, 2578]	3742	[5255, 1959]	5966	[7118, 5435]	8190	[8518, 4328]
1519	[2597, 2598]	3743	[4353, 4963]	5967	[7119, 1668]	8191	[8519, 5668]
1520	[659, 153]	3744	[5256, 2129]	5968	[7120, 5328]	8192	[8520, 2705]
1521	[2599, 2600]	3745	[5257, 828]	5969	[7121, 4310]	8193	[8521, 8506]
1522	[514, 139]	3746	[5258, 5259]	5970	[7122, 7123]	8194	[5262, 8522]
1523	[2601, 34]	3747	[5000, 2192]	5971	[1753, 5329]	8195	[1960, 2132]
1524	[2602, 2603]	3748	[5260, 5261]	5972	[7124, 7125]	8196	[2152, 8523]
1525	[2604, 2605]	3749	[2307, 4419]	5973	[2761, 7126]	8197	[7093, 2699]
1526	[2606, 2607]	3750	[5262, 4577]	5974	[581, 7127]	8198	[5360, 166]
1527	[2608, 2609]	3751	[5214, 5263]	5975	[707, 2011]	8199	[7572, 8507]
1528	[2610, 2611]	3752	[5264, 722]	5976	[7128, 1704]	8200	[8524, 8525]
1529	[2612, 1890]	3753	[5133, 5265]	5977	[7129, 5596]	8201	[8526, 1717]
1530	[2613, 2614]	3754	[5266, 5093]	5978	[4875, 4929]	8202	[8527, 8429]
1531	[2615, 2616]	3755	[5267, 2558]	5979	[4493, 7130]	8203	[2180, 2255]
1532	[763, 2459]	3756	[5268, 5269]	5980	[5384, 5664]	8204	[8528, 8494]
1533	[2617, 2618]	3757	[5270, 5271]	5981	[5151, 2667]	8205	[8529, 7123]
1534	[2619, 2620]	3758	[5272, 2063]	5982	[4271, 7131]	8206	[2588, 4732]
1535	[2437, 2621]	3759	[4914, 32]	5983	[538, 4674]	8207	[2052, 8530]
1536	[1978, 2622]	3760	[5273, 5274]	5984	[7132, 7133]	8208	[5120, 5243]
1537	[2623, 2624]	3761	[5275, 4483]	5985	[7134, 7135]	8209	[4668, 908]
1538	[2625, 2626]	3762	[5276, 4713]	5986	[1991, 4894]	8210	[4739, 4596]

1539	[2627, 888]	3763	[1902, 2666]	5987	[7136, 4409]	8211	[7234, 8531]
1540	[2066, 2628]	3764	[5277, 5278]	5988	[7137, 2184]	8212	[8532, 2692]
1541	[2629, 623]	3765	[5279, 5280]	5989	[4524, 593]	8213	[6981, 2342]
1542	[2630, 1840]	3766	[5281, 4755]	5990	[7138, 563]	8214	[8533, 7671]
1543	[2315, 1764]	3767	[5282, 5283]	5991	[7139, 7113]	8215	[8534, 8485]
1544	[2631, 2632]	3768	[5032, 5284]	5992	[7087, 7140]	8216	[7299, 1982]
1545	[2633, 592]	3769	[5285, 1831]	5993	[7141, 5384]	8217	[727, 2757]
1546	[2634, 1915]	3770	[4303, 5286]	5994	[7142, 7111]	8218	[689, 8535]
1547	[2635, 2373]	3771	[5287, 548]	5995	[7143, 4937]	8219	[7586, 5471]
1548	[2636, 827]	3772	[5288, 5289]	5996	[4765, 7144]	8220	[8536, 2582]
1549	[1921, 833]	3773	[5290, 5291]	5997	[2051, 4512]	8221	[884, 8537]
1550	[2637, 2638]	3774	[5196, 4730]	5998	[7145, 1829]	8222	[2547, 4759]
1551	[2624, 1889]	3775	[4678, 4844]	5999	[7146, 7147]	8223	[2009, 8538]
1552	[2639, 1977]	3776	[4310, 2449]	6000	[4532, 7148]	8224	[1867, 2733]
1553	[2640, 2577]	3777	[615, 4360]	6001	[2627, 2215]	8225	[4461, 8324]
1554	[2503, 2641]	3778	[150, 680]	6002	[7149, 4743]	8226	[2458, 7651]
1555	[506, 1679]	3779	[5292, 2289]	6003	[2150, 6971]	8227	[2679, 8486]
1556	[2642, 2643]	3780	[2346, 5293]	6004	[7150, 7151]	8228	[8539, 2620]
1557	[2644, 2645]	3781	[729, 875]	6005	[790, 4705]	8229	[4775, 7703]
1558	[2646, 488]	3782	[612, 5294]	6006	[4756, 7152]	8230	[8540, 8476]
1559	[2647, 2648]	3783	[4814, 2682]	6007	[7153, 7075]	8231	[1689, 7636]
1560	[2649, 2650]	3784	[5295, 2751]	6008	[2665, 1903]	8232	[8541, 2653]
1561	[2651, 727]	3785	[5296, 710]	6009	[1710, 44]	8233	[2448, 2132]
1562	[2652, 646]	3786	[5297, 5298]	6010	[7154, 7155]	8234	[7498, 6991]
1563	[2653, 2351]	3787	[5299, 5300]	6011	[2345, 7039]	8235	[8281, 8406]
1564	[2625, 2654]	3788	[4925, 667]	6012	[4737, 148]	8236	[8542, 8304]
1565	[2655, 2656]	3789	[2511, 4618]	6013	[7156, 4393]	8237	[8543, 8544]
1566	[2657, 2533]	3790	[4433, 4670]	6014	[7157, 2065]	8238	[4576, 8522]
1567	[2519, 2658]	3791	[4441, 5301]	6015	[831, 4408]	8239	[8399, 2378]
1568	[2659, 2660]	3792	[4703, 1924]	6016	[7158, 4886]	8240	[7278, 5431]
1569	[2661, 2349]	3793	[5302, 1885]	6017	[4870, 5623]	8241	[8263, 7263]
1570	[2662, 2246]	3794	[5303, 1655]	6018	[537, 793]	8242	[7258, 5657]
1571	[2663, 2664]	3795	[5304, 4615]	6019	[7159, 2008]	8243	[8545, 2653]
1572	[2665, 2666]	3796	[4698, 5305]	6020	[5429, 4801]	8244	[2640, 509]
1573	[2667, 2668]	3797	[2123, 5306]	6021	[4769, 5524]	8245	[145, 2506]
1574	[2669, 2670]	3798	[4491, 5307]	6022	[868, 7034]	8246	[2623, 7320]
1575	[2671, 2343]	3799	[5308, 5309]	6023	[5643, 4672]	8247	[7448, 7470]
1576	[2672, 2626]	3800	[1983, 4561]	6024	[7160, 2212]	8248	[1564, 6529]
1577	[2673, 1698]	3801	[4803, 5310]	6025	[4736, 4810]	8249	[1553, 8546]
1578	[2674, 2675]	3802	[5311, 5312]	6026	[7161, 7162]	8250	[8013, 8547]
1579	[2676, 2677]	3803	[5313, 545]	6027	[7163, 4374]	8251	[8548, 4160]
1580	[2678, 2650]	3804	[5217, 5314]	6028	[7164, 7165]	8252	[8549, 2774]
1581	[2679, 2680]	3805	[2631, 5315]	6029	[7166, 7167]	8253	[6514, 5965]
1582	[2681, 1756]	3806	[5316, 5317]	6030	[7168, 7169]	8254	[2994, 8550]

1583	[2682, 2081]	3807	[5318, 5319]	6031	[7170, 2658]	8255	[3737, 6900]
1584	[135, 2683]	3808	[2622, 2477]	6032	[2353, 671]	8256	[1611, 249]
1585	[2684, 2575]	3809	[2512, 4372]	6033	[4797, 7171]	8257	[2878, 3435]
1586	[2685, 2686]	3810	[5320, 5321]	6034	[7172, 1701]	8258	[8551, 8552]
1587	[2687, 2688]	3811	[5322, 5323]	6035	[1687, 687]	8259	[8553, 1109]
1588	[2689, 2690]	3812	[5324, 4254]	6036	[5132, 5519]	8260	[8554, 3544]
1589	[2691, 2692]	3813	[5325, 5326]	6037	[7173, 7174]	8261	[6639, 6618]
1590	[1708, 2693]	3814	[5327, 5328]	6038	[673, 7175]	8262	[8555, 8556]
1591	[719, 2694]	3815	[5329, 1692]	6039	[7176, 2055]	8263	[1614, 5866]
1592	[54, 2576]	3816	[5330, 5331]	6040	[4239, 5670]	8264	[6375, 1649]
1593	[2197, 2172]	3817	[5332, 5333]	6041	[7177, 7178]	8265	[8054, 1030]
1594	[2695, 2696]	3818	[5334, 5335]	6042	[7179, 6994]	8266	[8557, 8558]
1595	[2367, 2697]	3819	[5336, 5337]	6043	[2361, 5115]	8267	[6156, 4090]
1596	[2698, 760]	3820	[5338, 5339]	6044	[1937, 7130]	8268	[7990, 3231]
1597	[2699, 2700]	3821	[5265, 5340]	6045	[7180, 2598]	8269	[8050, 3400]
1598	[2701, 1772]	3822	[5341, 5342]	6046	[5414, 2290]	8270	[5988, 2982]
1599	[2702, 2703]	3823	[4415, 5343]	6047	[4341, 197]	8271	[8231, 3791]
1600	[2704, 2705]	3824	[809, 5344]	6048	[4439, 2005]	8272	[3299, 8559]
1601	[2706, 1699]	3825	[1712, 5345]	6049	[7181, 7182]	8273	[5858, 3871]
1602	[2707, 2159]	3826	[5346, 809]	6050	[4451, 5312]	8274	[8560, 8561]
1603	[2708, 737]	3827	[5347, 2217]	6051	[5302, 5123]	8275	[8562, 1162]
1604	[2709, 2710]	3828	[543, 5348]	6052	[7183, 1706]	8276	[8563, 8564]
1605	[2711, 2712]	3829	[2324, 5349]	6053	[7184, 6908]	8277	[2943, 3952]
1606	[488, 804]	3830	[5350, 5351]	6054	[1969, 5182]	8278	[8565, 6317]
1607	[529, 2214]	3831	[5352, 5353]	6055	[7185, 7186]	8279	[4174, 7762]
1608	[2713, 2714]	3832	[2695, 5284]	6056	[2169, 7187]	8280	[8566, 8567]
1609	[2154, 48]	3833	[1675, 790]	6057	[7188, 1679]	8281	[3440, 436]
1610	[2715, 2716]	3834	[2763, 2430]	6058	[5012, 2300]	8282	[3106, 6070]
1611	[2717, 2718]	3835	[5354, 5355]	6059	[643, 839]	8283	[6106, 8148]
1612	[2719, 2437]	3836	[5356, 2441]	6060	[1745, 4572]	8284	[7774, 1370]
1613	[2720, 2721]	3837	[5357, 5358]	6061	[4859, 7189]	8285	[8568, 6613]
1614	[2722, 2723]	3838	[36, 4717]	6062	[7190, 6986]	8286	[1064, 3577]
1615	[2724, 2725]	3839	[4299, 2685]	6063	[7191, 2570]	8287	[8569, 1001]
1616	[2726, 2]	3840	[1983, 5359]	6064	[2394, 5549]	8288	[8570, 6295]
1617	[2526, 1918]	3841	[5360, 1778]	6065	[1710, 4855]	8289	[399, 8571]
1618	[2443, 1776]	3842	[2491, 694]	6066	[7192, 7193]	8290	[3843, 8079]
1619	[2727, 2728]	3843	[5361, 2395]	6067	[5178, 873]	8291	[1617, 1476]
1620	[2729, 2730]	3844	[5362, 5120]	6068	[7194, 7195]	8292	[3581, 8572]
1621	[2731, 2732]	3845	[5363, 5364]	6069	[7141, 5480]	8293	[8573, 1605]
1622	[2733, 2734]	3846	[5365, 4988]	6070	[7196, 2143]	8294	[1022, 4123]
1623	[2735, 2736]	3847	[5366, 1948]	6071	[2662, 5001]	8295	[8574, 8575]
1624	[2737, 2038]	3848	[508, 4677]	6072	[7197, 7107]	8296	[8576, 3249]
1625	[2738, 2609]	3849	[5089, 5367]	6073	[6934, 7198]	8297	[8162, 1048]
1626	[2658, 2739]	3850	[609, 5368]	6074	[2177, 7118]	8298	[8577, 470]

1627	[2740, 2741]	3851	[5369, 5309]	6075	[2210, 5188]	8299	[8578, 457]
1628	[1764, 2742]	3852	[1718, 4587]	6076	[5473, 584]	8300	[1501, 6747]
1629	[2743, 2116]	3853	[4544, 5370]	6077	[7199, 1759]	8301	[3496, 8579]
1630	[2744, 2745]	3854	[4686, 5305]	6078	[7200, 7201]	8302	[8580, 8154]
1631	[2746, 2747]	3855	[5371, 5372]	6079	[7008, 7202]	8303	[5819, 1285]
1632	[2748, 2749]	3856	[896, 2146]	6080	[5436, 5206]	8304	[8581, 8582]
1633	[2750, 689]	3857	[5373, 1751]	6081	[7203, 6983]	8305	[8583, 2823]
1634	[2751, 2752]	3858	[692, 831]	6082	[7204, 7205]	8306	[6408, 2946]
1635	[525, 1836]	3859	[5374, 2607]	6083	[4566, 836]	8307	[6525, 8584]
1636	[2753, 2754]	3860	[1771, 5375]	6084	[7206, 2043]	8308	[4062, 6099]
1637	[2708, 2161]	3861	[5376, 2251]	6085	[2564, 7207]	8309	[1061, 3230]
1638	[2755, 1842]	3862	[5377, 549]	6086	[7208, 7209]	8310	[922, 8585]
1639	[2047, 2435]	3863	[5378, 579]	6087	[1768, 2520]	8311	[8586, 7965]
1640	[1963, 561]	3864	[4738, 149]	6088	[7210, 7169]	8312	[8587, 6702]
1641	[2281, 1734]	3865	[4436, 5379]	6089	[2497, 1832]	8313	[5929, 8588]
1642	[2694, 2756]	3866	[5085, 5380]	6090	[5205, 8]	8314	[1222, 2976]
1643	[1800, 2309]	3867	[2072, 5381]	6091	[4764, 2636]	8315	[7930, 1096]
1644	[2757, 2758]	3868	[5382, 5163]	6092	[7211, 5526]	8316	[4053, 1619]
1645	[2759, 578]	3869	[5383, 5384]	6093	[5383, 5480]	8317	[1150, 6338]
1646	[2760, 132]	3870	[4998, 4383]	6094	[6985, 7212]	8318	[17, 1375]
1647	[1825, 2440]	3871	[5385, 5386]	6095	[7213, 734]	8319	[6400, 8589]
1648	[2761, 2660]	3872	[5387, 5388]	6096	[7214, 7021]	8320	[3790, 6843]
1649	[2762, 2763]	3873	[5389, 5340]	6097	[7118, 4396]	8321	[8590, 8058]
1650	[2764, 2765]	3874	[551, 2639]	6098	[4654, 7004]	8322	[8591, 6886]
1651	[2766, 2767]	3875	[698, 5390]	6099	[7215, 4502]	8323	[8592, 3675]
1652	[2768, 1907]	3876	[5391, 4543]	6100	[570, 4992]	8324	[8593, 8594]
1653	[2769, 2770]	3877	[1694, 4377]	6101	[7216, 7217]	8325	[8595, 3335]
1654	[2771, 2772]	3878	[5392, 5393]	6102	[7218, 7031]	8326	[3201, 7740]
1655	[2773, 2774]	3879	[2317, 5394]	6103	[7219, 224]	8327	[8596, 2826]
1656	[2775, 2776]	3880	[5395, 5317]	6104	[7220, 7221]	8328	[3897, 6895]
1657	[1642, 2777]	3881	[4828, 2308]	6105	[7222, 7223]	8329	[2789, 6724]
1658	[1289, 1296]	3882	[4800, 5396]	6106	[2448, 1961]	8330	[5978, 3455]
1659	[1495, 1566]	3883	[5397, 5398]	6107	[7224, 7225]	8331	[3823, 8214]
1660	[2778, 1574]	3884	[241, 1994]	6108	[7226, 7227]	8332	[8597, 8598]
1661	[2779, 2780]	3885	[5399, 5400]	6109	[7228, 6991]	8333	[8599, 5896]
1662	[2781, 2782]	3886	[5401, 2408]	6110	[7015, 7229]	8334	[6475, 4101]
1663	[2783, 1447]	3887	[5176, 2473]	6111	[144, 2505]	8335	[8600, 1168]
1664	[2784, 2785]	3888	[5402, 618]	6112	[7007, 4675]	8336	[24, 1178]
1665	[1094, 2786]	3889	[5403, 5404]	6113	[7230, 4894]	8337	[8601, 8602]
1666	[2787, 2788]	3890	[5405, 5406]	6114	[7231, 212]	8338	[1417, 4066]
1667	[279, 2789]	3891	[1696, 5407]	6115	[5336, 7232]	8339	[6164, 4148]
1668	[2790, 2791]	3892	[5408, 2229]	6116	[7233, 812]	8340	[8603, 8237]
1669	[2792, 2793]	3893	[5409, 1787]	6117	[7234, 5423]	8341	[2809, 349]
1670	[2794, 2795]	3894	[5410, 4694]	6118	[7235, 5666]	8342	[3436, 993]

1671	[2796, 2797]	3895	[5411, 5412]	6119	[7236, 1951]	8343	[8604, 3310]
1672	[2798, 2799]	3896	[4836, 4500]	6120	[1790, 7237]	8344	[286, 5759]
1673	[2800, 2801]	3897	[214, 5413]	6121	[7238, 5242]	8345	[3062, 3680]
1674	[1266, 2802]	3898	[5292, 5414]	6122	[7239, 7240]	8346	[4046, 6306]
1675	[2801, 1409]	3899	[5415, 4695]	6123	[4229, 7241]	8347	[8605, 297]
1676	[1205, 1412]	3900	[5416, 5417]	6124	[7242, 1864]	8348	[8606, 6816]
1677	[2803, 4]	3901	[5418, 4727]	6125	[7243, 7244]	8349	[1310, 8017]
1678	[2804, 2805]	3902	[4740, 151]	6126	[5094, 7022]	8350	[3989, 3101]
1679	[1023, 1123]	3903	[5419, 4915]	6127	[7245, 7246]	8351	[6164, 314]
1680	[959, 1355]	3904	[515, 2462]	6128	[806, 4900]	8352	[3337, 8607]
1681	[2806, 2807]	3905	[2642, 555]	6129	[5311, 4452]	8353	[8608, 6589]
1682	[2808, 6]	3906	[5006, 5420]	6130	[483, 2309]	8354	[7874, 4114]
1683	[2809, 1402]	3907	[4980, 4968]	6131	[7247, 204]	8355	[1203, 1323]
1684	[2810, 2811]	3908	[1803, 2567]	6132	[1930, 7248]	8356	[6887, 8039]
1685	[2812, 2813]	3909	[587, 2239]	6133	[4434, 532]	8357	[3366, 4043]
1686	[2814, 2815]	3910	[2091, 5417]	6134	[2165, 5420]	8358	[4034, 8609]
1687	[2816, 2817]	3911	[5421, 517]	6135	[7249, 2641]	8359	[1050, 1032]
1688	[2818, 2819]	3912	[1, 2289]	6136	[723, 5259]	8360	[1223, 6187]
1689	[2820, 1549]	3913	[481, 2210]	6137	[772, 7250]	8361	[3110, 4093]
1690	[2821, 919]	3914	[5422, 5423]	6138	[5430, 7251]	8362	[8610, 8077]
1691	[2822, 2823]	3915	[5392, 50]	6139	[4467, 2661]	8363	[3877, 3313]
1692	[2824, 2825]	3916	[5424, 5358]	6140	[137, 4721]	8364	[8611, 1579]
1693	[2826, 2827]	3917	[5425, 5426]	6141	[4905, 7252]	8365	[1007, 6487]
1694	[2828, 2829]	3918	[1898, 5002]	6142	[7253, 7103]	8366	[8612, 8613]
1695	[2830, 328]	3919	[2726, 2545]	6143	[2702, 2016]	8367	[8614, 8037]
1696	[2831, 2832]	3920	[3920, 3920]	6144	[1738, 4378]	8368	[8615, 5724]
1697	[2833, 2834]	3921	[220, 1745]	6145	[5475, 2561]	8369	[8616, 5844]
1698	[2835, 2836]	3922	[2146, 5427]	6146	[872, 902]	8370	[3226, 6720]
1699	[79, 2837]	3923	[2067, 4800]	6147	[7254, 4671]	8371	[6520, 8617]
1700	[2838, 1627]	3924	[4430, 4521]	6148	[5330, 1682]	8372	[8618, 410]
1701	[2839, 2840]	3925	[5428, 4623]	6149	[7255, 4267]	8373	[6659, 4155]
1702	[2841, 2842]	3926	[2628, 5429]	6150	[666, 4764]	8374	[8619, 3204]
1703	[2843, 1267]	3927	[2124, 5430]	6151	[148, 7256]	8375	[8620, 8621]
1704	[2844, 2845]	3928	[2673, 569]	6152	[7257, 5171]	8376	[6597, 3181]
1705	[1106, 2846]	3929	[5013, 5431]	6153	[7258, 1720]	8377	[8622, 7848]
1706	[2847, 2848]	3930	[5432, 5433]	6154	[5057, 7259]	8378	[7841, 3356]
1707	[405, 2849]	3931	[4619, 5434]	6155	[792, 6930]	8379	[8623, 4174]
1708	[982, 1079]	3932	[34, 5257]	6156	[222, 5089]	8380	[8624, 6526]
1709	[2850, 2851]	3933	[5435, 4716]	6157	[5466, 2723]	8381	[89, 8625]
1710	[2852, 2853]	3934	[1845, 2279]	6158	[4688, 762]	8382	[8626, 8627]
1711	[2854, 2855]	3935	[1995, 5436]	6159	[5074, 2432]	8383	[8599, 5805]
1712	[2856, 2857]	3936	[4996, 4617]	6160	[2331, 7260]	8384	[6115, 939]
1713	[277, 2858]	3937	[4613, 199]	6161	[7261, 7165]	8385	[8628, 8629]
1714	[2859, 1004]	3938	[4899, 758]	6162	[152, 660]	8386	[6770, 6730]

1715	[2860, 2861]	3939	[5437, 4303]	6163	[881, 7262]	8387	[8610, 3982]
1716	[2862, 2863]	3940	[5438, 4770]	6164	[1671, 5608]	8388	[1507, 3066]
1717	[2864, 2865]	3941	[5439, 5440]	6165	[4893, 5655]	8389	[7978, 8192]
1718	[2866, 2867]	3942	[223, 5367]	6166	[4248, 909]	8390	[8630, 8631]
1719	[2868, 2869]	3943	[5441, 742]	6167	[1949, 7263]	8391	[3457, 8056]
1720	[2870, 2871]	3944	[4922, 4288]	6168	[7264, 5178]	8392	[8632, 2828]
1721	[1472, 2872]	3945	[5442, 1991]	6169	[2521, 7265]	8393	[8633, 3998]
1722	[2873, 2874]	3946	[5443, 844]	6170	[7266, 5313]	8394	[8080, 4205]
1723	[2875, 2876]	3947	[1702, 5314]	6171	[7267, 2034]	8395	[5932, 8634]
1724	[1004, 2877]	3948	[5444, 5298]	6172	[7268, 7083]	8396	[8635, 8636]
1725	[2878, 2879]	3949	[5445, 5446]	6173	[7269, 7270]	8397	[6214, 8101]
1726	[2880, 2881]	3950	[2354, 5397]	6174	[2204, 6941]	8398	[3718, 995]
1727	[2882, 2883]	3951	[5447, 5448]	6175	[7002, 5136]	8399	[8637, 3227]
1728	[2884, 2885]	3952	[5449, 1802]	6176	[7271, 7119]	8400	[8638, 8639]
1729	[2886, 2887]	3953	[5450, 5451]	6177	[1970, 531]	8401	[3431, 3505]
1730	[2888, 406]	3954	[5452, 5453]	6178	[5429, 5396]	8402	[3100, 1040]
1731	[2889, 2890]	3955	[594, 2016]	6179	[881, 4928]	8403	[6497, 8640]
1732	[2891, 2892]	3956	[5454, 4433]	6180	[4795, 5551]	8404	[6864, 4047]
1733	[2893, 1311]	3957	[5455, 705]	6181	[5116, 4427]	8405	[8641, 7949]
1734	[1599, 2894]	3958	[5456, 4711]	6182	[174, 2593]	8406	[8567, 3544]
1735	[2895, 2896]	3959	[5457, 5458]	6183	[823, 5168]	8407	[6329, 8642]
1736	[2897, 1064]	3960	[5459, 5460]	6184	[7272, 7273]	8408	[8643, 7778]
1737	[2898, 1502]	3961	[4326, 4532]	6185	[2540, 5180]	8409	[6821, 8556]
1738	[2899, 1593]	3962	[5461, 5462]	6186	[7249, 2504]	8410	[1514, 3693]
1739	[2900, 1621]	3963	[5463, 4638]	6187	[7274, 7119]	8411	[8644, 8645]
1740	[2901, 2902]	3964	[5464, 4534]	6188	[7275, 7151]	8412	[1411, 8202]
1741	[2903, 2904]	3965	[2628, 4800]	6189	[2755, 2720]	8413	[6597, 3478]
1742	[2905, 2906]	3966	[5465, 1995]	6190	[2555, 4611]	8414	[7867, 84]
1743	[2907, 2908]	3967	[1877, 2384]	6191	[4706, 4830]	8415	[8646, 1156]
1744	[2909, 2910]	3968	[4245, 1658]	6192	[5010, 4388]	8416	[6220, 5903]
1745	[2911, 1519]	3969	[5466, 5099]	6193	[7276, 2042]	8417	[8647, 3714]
1746	[2912, 2913]	3970	[5467, 4737]	6194	[7277, 4822]	8418	[3188, 4202]
1747	[1228, 2914]	3971	[5468, 4634]	6195	[520, 2198]	8419	[8159, 3807]
1748	[2915, 2916]	3972	[4301, 4947]	6196	[4942, 62]	8420	[3047, 3421]
1749	[2917, 938]	3973	[5469, 2382]	6197	[7278, 5014]	8421	[3666, 1144]
1750	[2918, 2919]	3974	[811, 5214]	6198	[804, 7279]	8422	[8648, 8649]
1751	[2920, 2921]	3975	[5470, 4429]	6199	[512, 7280]	8423	[6473, 1529]
1752	[2922, 2923]	3976	[2067, 5429]	6200	[7281, 2008]	8424	[3042, 8650]
1753	[330, 2824]	3977	[5471, 5472]	6201	[2682, 2715]	8425	[8651, 1570]
1754	[2924, 2826]	3978	[5473, 1809]	6202	[7282, 7283]	8426	[8035, 19]
1755	[1290, 2925]	3979	[5474, 502]	6203	[480, 2209]	8427	[6849, 3049]
1756	[2926, 2927]	3980	[5475, 1808]	6204	[5630, 7284]	8428	[3499, 7991]
1757	[2928, 96]	3981	[5253, 5151]	6205	[495, 2057]	8429	[8652, 8653]
1758	[2929, 2930]	3982	[5476, 2745]	6206	[5228, 7285]	8430	[3080, 6560]

1759	[2931, 2932]	3983	[1757, 1828]	6207	[7286, 4956]	8431	[8654, 6646]
1760	[2933, 307]	3984	[5477, 1980]	6208	[7287, 5144]	8432	[5836, 4199]
1761	[1124, 1399]	3985	[5478, 4664]	6209	[5037, 7288]	8433	[8655, 3730]
1762	[2934, 1626]	3986	[2242, 4985]	6210	[826, 5584]	8434	[5847, 3163]
1763	[2935, 2936]	3987	[5046, 5479]	6211	[7289, 5629]	8435	[1277, 6470]
1764	[2937, 2938]	3988	[4984, 2243]	6212	[522, 7290]	8436	[8656, 4040]
1765	[2939, 2940]	3989	[1681, 5331]	6213	[6933, 795]	8437	[1518, 8059]
1766	[2941, 2942]	3990	[5480, 5481]	6214	[5288, 7291]	8438	[357, 8625]
1767	[2943, 2944]	3991	[1851, 4480]	6215	[7292, 2543]	8439	[3205, 8657]
1768	[1374, 18]	3992	[5482, 5126]	6216	[7293, 7294]	8440	[8658, 3371]
1769	[2945, 2946]	3993	[842, 4353]	6217	[4546, 7295]	8441	[3036, 4038]
1770	[2947, 2948]	3994	[5483, 2456]	6218	[7296, 4663]	8442	[8659, 4055]
1771	[2949, 2950]	3995	[4295, 4277]	6219	[1876, 6970]	8443	[6075, 117]
1772	[2951, 2952]	3996	[5194, 5368]	6220	[7297, 5289]	8444	[1487, 8189]
1773	[2953, 2954]	3997	[905, 5208]	6221	[7298, 7232]	8445	[3241, 972]
1774	[1390, 1217]	3998	[5484, 1938]	6222	[7299, 4727]	8446	[1640, 1545]
1775	[3, 2955]	3999	[5485, 5486]	6223	[7300, 5564]	8447	[8660, 8661]
1776	[949, 2956]	4000	[5487, 4859]	6224	[7301, 5618]	8448	[6110, 5778]
1777	[2957, 2958]	4001	[1975, 5488]	6225	[7302, 5190]	8449	[8591, 6694]
1778	[2959, 2960]	4002	[5489, 4970]	6226	[7303, 7304]	8450	[3441, 1287]
1779	[2961, 1098]	4003	[5490, 2370]	6227	[7305, 7306]	8451	[6735, 5901]
1780	[2962, 2963]	4004	[5491, 5280]	6228	[7307, 2589]	8452	[3846, 8662]
1781	[2964, 2965]	4005	[5103, 5492]	6229	[489, 7279]	8453	[8663, 6418]
1782	[2966, 2967]	4006	[4674, 4338]	6230	[2446, 7308]	8454	[8664, 8665]
1783	[2968, 2969]	4007	[2013, 2171]	6231	[4426, 5117]	8455	[1446, 8106]
1784	[2970, 1246]	4008	[5493, 5494]	6232	[2447, 2684]	8456	[8666, 7938]
1785	[2971, 2972]	4009	[4470, 5046]	6233	[7309, 5231]	8457	[6256, 6628]
1786	[2973, 2974]	4010	[1838, 4377]	6234	[7310, 1702]	8458	[1185, 2866]
1787	[1541, 2975]	4011	[4397, 753]	6235	[7311, 716]	8459	[8667, 6503]
1788	[2976, 2977]	4012	[2089, 5495]	6236	[7312, 2636]	8460	[7765, 6657]
1789	[2978, 2979]	4013	[5496, 2194]	6237	[7313, 4482]	8461	[2935, 7972]
1790	[2980, 2981]	4014	[5497, 1690]	6238	[7153, 5062]	8462	[8668, 8567]
1791	[284, 2982]	4015	[2161, 738]	6239	[7314, 7207]	8463	[8669, 5785]
1792	[2983, 978]	4016	[4529, 5380]	6240	[7315, 483]	8464	[1522, 6052]
1793	[2984, 2985]	4017	[5498, 4632]	6241	[7316, 7195]	8465	[8670, 6399]
1794	[1229, 1561]	4018	[4393, 2747]	6242	[2652, 668]	8466	[6285, 7812]
1795	[1092, 2986]	4019	[5499, 4735]	6243	[1686, 7001]	8467	[8671, 3278]
1796	[2987, 2988]	4020	[5500, 566]	6244	[7190, 7212]	8468	[3189, 3616]
1797	[2939, 2989]	4021	[5501, 5502]	6245	[7317, 7318]	8469	[8012, 1096]
1798	[2990, 2991]	4022	[5503, 5504]	6246	[2500, 5002]	8470	[1346, 5930]
1799	[2992, 2993]	4023	[4473, 5505]	6247	[5092, 5556]	8471	[6145, 6029]
1800	[2994, 2995]	4024	[1676, 4689]	6248	[7319, 5178]	8472	[2803, 2955]
1801	[2996, 1071]	4025	[4752, 5506]	6249	[4327, 7148]	8473	[8672, 6543]
1802	[2997, 2998]	4026	[2203, 2250]	6250	[7320, 1889]	8474	[6894, 8673]

1803	[2999, 3000]	4027	[4611, 5507]	6251	[7321, 2271]	8475	[7846, 5900]
1804	[3001, 3002]	4028	[524, 766]	6252	[1848, 4471]	8476	[8674, 8675]
1805	[3003, 1520]	4029	[5508, 498]	6253	[3920, 4682]	8477	[8676, 1528]
1806	[3004, 3005]	4030	[1819, 5509]	6254	[1847, 4817]	8478	[8562, 1648]
1807	[3006, 3007]	4031	[2312, 1774]	6255	[7322, 2180]	8479	[1437, 2858]
1808	[3008, 3009]	4032	[5505, 2528]	6256	[1899, 5003]	8480	[3116, 1257]
1809	[3010, 108]	4033	[4670, 5510]	6257	[5091, 2567]	8481	[6333, 6027]
1810	[3011, 3012]	4034	[5376, 2182]	6258	[1690, 543]	8482	[2860, 3383]
1811	[3013, 3014]	4035	[5151, 626]	6259	[2034, 4405]	8483	[8677, 7893]
1812	[3015, 3016]	4036	[2483, 5436]	6260	[5540, 5120]	8484	[3705, 7842]
1813	[3017, 2845]	4037	[154, 4742]	6261	[4533, 7323]	8485	[8678, 8679]
1814	[3018, 2871]	4038	[800, 5511]	6262	[1868, 2734]	8486	[8680, 8096]
1815	[2954, 3019]	4039	[4614, 5512]	6263	[7324, 2401]	8487	[4209, 2976]
1816	[3020, 3021]	4040	[5513, 5514]	6264	[7325, 7326]	8488	[276, 8681]
1817	[3022, 3023]	4041	[5515, 5516]	6265	[7327, 4829]	8489	[3355, 8602]
1818	[3024, 3025]	4042	[1751, 2339]	6266	[7328, 4702]	8490	[8682, 6538]
1819	[3026, 3027]	4043	[5517, 4703]	6267	[7233, 4386]	8491	[3489, 8683]
1820	[3028, 3029]	4044	[5518, 5301]	6268	[897, 5427]	8492	[8684, 8685]
1821	[1065, 3030]	4045	[5519, 5265]	6269	[7329, 2513]	8493	[5859, 8094]
1822	[3031, 3032]	4046	[5520, 5521]	6270	[7330, 2426]	8494	[6266, 6525]
1823	[2971, 1515]	4047	[5522, 5523]	6271	[7331, 4508]	8495	[6745, 6536]
1824	[985, 3033]	4048	[5438, 5524]	6272	[7332, 4906]	8496	[6535, 6301]
1825	[3034, 3035]	4049	[5525, 5526]	6273	[7333, 7334]	8497	[8603, 6682]
1826	[417, 3036]	4050	[5527, 5528]	6274	[5447, 7335]	8498	[1216, 6875]
1827	[3037, 1381]	4051	[5529, 648]	6275	[7336, 5040]	8499	[5869, 8686]
1828	[3038, 2881]	4052	[757, 2727]	6276	[7337, 7338]	8500	[8606, 6810]
1829	[3039, 3040]	4053	[5530, 5531]	6277	[185, 4668]	8501	[6175, 3992]
1830	[3041, 967]	4054	[5532, 5533]	6278	[696, 7339]	8502	[8592, 124]
1831	[3042, 3043]	4055	[5534, 1990]	6279	[13, 7340]	8503	[4035, 8687]
1832	[3044, 3045]	4056	[4370, 5535]	6280	[1667, 7341]	8504	[5757, 6375]
1833	[3046, 3047]	4057	[237, 37]	6281	[910, 7342]	8505	[4186, 8201]
1834	[3048, 3049]	4058	[5536, 780]	6282	[7343, 7344]	8506	[2979, 8621]
1835	[3050, 3051]	4059	[5537, 5538]	6283	[4975, 5608]	8507	[323, 7832]
1836	[3052, 371]	4060	[5539, 2135]	6284	[7345, 5127]	8508	[3475, 8688]
1837	[1260, 3053]	4061	[1872, 4499]	6285	[7346, 5504]	8509	[8689, 5815]
1838	[3054, 3055]	4062	[5540, 4933]	6286	[7347, 7348]	8510	[3003, 4127]
1839	[3056, 3057]	4063	[4625, 2347]	6287	[2145, 897]	8511	[8690, 8691]
1840	[3058, 3059]	4064	[5541, 1942]	6288	[7349, 670]	8512	[3046, 5962]
1841	[1609, 3060]	4065	[5542, 4305]	6289	[5155, 4699]	8513	[3408, 3783]
1842	[3061, 3062]	4066	[2458, 5543]	6290	[524, 4718]	8514	[3276, 7895]
1843	[3063, 3064]	4067	[5544, 5545]	6291	[7350, 595]	8515	[3214, 3800]
1844	[3065, 3066]	4068	[5546, 1874]	6292	[4388, 2393]	8516	[3468, 6510]
1845	[3067, 3068]	4069	[2098, 2005]	6293	[7351, 7352]	8517	[8692, 1331]
1846	[3069, 3070]	4070	[4861, 4481]	6294	[4971, 1911]	8518	[6742, 3289]

1847	[1053, 3031]	4071	[4560, 5359]	6295	[852, 577]	8519	[8693, 5908]
1848	[1176, 1181]	4072	[4411, 4959]	6296	[7353, 4612]	8520	[3921, 3353]
1849	[3071, 3072]	4073	[5547, 1925]	6297	[4955, 7354]	8521	[29, 969]
1850	[1318, 1140]	4074	[2491, 1926]	6298	[879, 886]	8522	[3406, 8176]
1851	[3073, 3074]	4075	[1734, 2634]	6299	[2400, 7355]	8523	[8694, 7870]
1852	[3075, 3076]	4076	[5195, 5494]	6300	[7356, 4331]	8524	[292, 8695]
1853	[3077, 433]	4077	[1987, 1675]	6301	[4254, 7357]	8525	[8696, 3790]
1854	[3078, 3014]	4078	[5548, 649]	6302	[139, 179]	8526	[1224, 8697]
1855	[3079, 3080]	4079	[5361, 5549]	6303	[784, 7358]	8527	[1368, 3340]
1856	[3081, 3082]	4080	[5550, 5551]	6304	[7359, 7360]	8528	[3327, 924]
1857	[3083, 3084]	4081	[4637, 5552]	6305	[6966, 2213]	8529	[8170, 8650]
1858	[295, 3085]	4082	[4385, 1877]	6306	[7361, 7225]	8530	[1532, 7851]
1859	[3086, 356]	4083	[5553, 5554]	6307	[167, 6984]	8531	[8698, 6380]
1860	[3087, 3088]	4084	[5445, 5555]	6308	[1901, 7362]	8532	[458, 3779]
1861	[3089, 1149]	4085	[5266, 5556]	6309	[7363, 7364]	8533	[6856, 6565]
1862	[3090, 3091]	4086	[5557, 5421]	6310	[7365, 6983]	8534	[3707, 4048]
1863	[3092, 3093]	4087	[1920, 1895]	6311	[7366, 7367]	8535	[8699, 2782]
1864	[86, 3094]	4088	[5558, 5559]	6312	[7368, 6999]	8536	[6068, 3312]
1865	[3095, 3096]	4089	[5560, 5561]	6313	[7230, 6916]	8537	[8700, 8701]
1866	[1319, 3097]	4090	[5562, 2670]	6314	[2234, 4603]	8538	[3675, 125]
1867	[3098, 3099]	4091	[5563, 2071]	6315	[2030, 779]	8539	[8171, 3320]
1868	[3100, 1403]	4092	[5564, 5565]	6316	[2252, 2075]	8540	[3768, 8702]
1869	[3101, 254]	4093	[5566, 1666]	6317	[7369, 7370]	8541	[1065, 8703]
1870	[3102, 432]	4094	[2003, 1862]	6318	[7371, 1700]	8542	[260, 8704]
1871	[916, 3103]	4095	[5567, 5568]	6319	[839, 7372]	8543	[3399, 8051]
1872	[3104, 1130]	4096	[5569, 686]	6320	[2506, 7373]	8544	[8705, 8706]
1873	[3105, 3106]	4097	[5570, 4310]	6321	[7374, 7358]	8545	[6253, 3744]
1874	[3107, 1402]	4098	[722, 5258]	6322	[7375, 1742]	8546	[8707, 8708]
1875	[1483, 3108]	4099	[5571, 5572]	6323	[7376, 5323]	8547	[8709, 7028]
1876	[298, 3109]	4100	[2255, 5573]	6324	[7377, 4562]	8548	[4403, 8343]
1877	[3110, 3111]	4101	[5574, 4539]	6325	[7378, 5627]	8549	[7324, 7355]
1878	[3112, 327]	4102	[899, 756]	6326	[4526, 4776]	8550	[8710, 5529]
1879	[3113, 3114]	4103	[5575, 5224]	6327	[5135, 2602]	8551	[7266, 544]
1880	[3115, 312]	4104	[2004, 1863]	6328	[5122, 221]	8552	[8711, 8712]
1881	[1436, 468]	4105	[883, 5207]	6329	[7379, 5143]	8553	[5002, 8713]
1882	[1037, 3116]	4106	[5576, 1987]	6330	[7380, 7381]	8554	[8714, 8715]
1883	[3117, 3118]	4107	[1714, 4425]	6331	[7382, 5605]	8555	[2706, 7371]
1884	[3119, 3120]	4108	[5577, 633]	6332	[6951, 7383]	8556	[8716, 7505]
1885	[3121, 3122]	4109	[5578, 844]	6333	[7199, 7384]	8557	[8717, 5525]
1886	[3123, 3124]	4110	[5579, 5580]	6334	[2100, 135]	8558	[5131, 4571]
1887	[338, 3125]	4111	[2261, 5160]	6335	[1731, 701]	8559	[8718, 8719]
1888	[3126, 1322]	4112	[2111, 5581]	6336	[7385, 7386]	8560	[8720, 8335]
1889	[3127, 3128]	4113	[1813, 4661]	6337	[7116, 793]	8561	[8721, 8722]
1890	[1157, 3129]	4114	[5582, 5583]	6338	[2002, 229]	8562	[7183, 5023]

1891	[3130, 1338]	4115	[2178, 5435]	6339	[4732, 7387]	8563	[5458, 2072]
1892	[3131, 3132]	4116	[4369, 5082]	6340	[7388, 7389]	8564	[8723, 7578]
1893	[3133, 3134]	4117	[2636, 5584]	6341	[7390, 879]	8565	[5181, 4697]
1894	[3135, 1303]	4118	[2587, 5585]	6342	[7391, 1749]	8566	[718, 5060]
1895	[3136, 1555]	4119	[5586, 2627]	6343	[5384, 5481]	8567	[5516, 4231]
1896	[3137, 3138]	4120	[5587, 5588]	6344	[6975, 7392]	8568	[5052, 558]
1897	[3139, 3140]	4121	[757, 4841]	6345	[7393, 7394]	8569	[5525, 7722]
1898	[3141, 3142]	4122	[759, 2392]	6346	[7395, 4787]	8570	[8724, 7608]
1899	[3143, 2965]	4123	[5589, 2170]	6347	[1743, 5172]	8571	[8725, 8726]
1900	[3050, 3144]	4124	[4368, 5590]	6348	[2147, 2713]	8572	[8727, 5211]
1901	[3145, 1031]	4125	[5591, 238]	6349	[7396, 729]	8573	[8728, 2517]
1902	[3146, 3147]	4126	[2548, 2599]	6350	[7397, 7180]	8574	[6941, 7340]
1903	[3148, 3149]	4127	[5592, 4601]	6351	[56, 4728]	8575	[5081, 8423]
1904	[2882, 2851]	4128	[5593, 2031]	6352	[4701, 7250]	8576	[1793, 4425]
1905	[2942, 3150]	4129	[4650, 2383]	6353	[2485, 7295]	8577	[4592, 7026]
1906	[3151, 3152]	4130	[5594, 5379]	6354	[7398, 766]	8578	[7594, 5008]
1907	[3153, 23]	4131	[489, 805]	6355	[4792, 4666]	8579	[8729, 8372]
1908	[3154, 3155]	4132	[2219, 4357]	6356	[7399, 5212]	8580	[5046, 2175]
1909	[3156, 3157]	4133	[5595, 128]	6357	[578, 7400]	8581	[2354, 8383]
1910	[3158, 3159]	4134	[2335, 5596]	6358	[7401, 4797]	8582	[2344, 7558]
1911	[3160, 3161]	4135	[5597, 5598]	6359	[7402, 4274]	8583	[1874, 2101]
1912	[3162, 3163]	4136	[2113, 5599]	6360	[5403, 1662]	8584	[8730, 8517]
1913	[3164, 3165]	4137	[4907, 4932]	6361	[7403, 5568]	8585	[8731, 7433]
1914	[1394, 1103]	4138	[4579, 5426]	6362	[7404, 5425]	8586	[5522, 5342]
1915	[2894, 3166]	4139	[5600, 5583]	6363	[2700, 5364]	8587	[8315, 7284]
1916	[1641, 1546]	4140	[2705, 4454]	6364	[7405, 7406]	8588	[8732, 6923]
1917	[3167, 2981]	4141	[5601, 5602]	6365	[5421, 2551]	8589	[8733, 8302]
1918	[1546, 2897]	4142	[1777, 5603]	6366	[5385, 7407]	8590	[5625, 4467]
1919	[3168, 3169]	4143	[5604, 5605]	6367	[4748, 7408]	8591	[5200, 8252]
1920	[1232, 3170]	4144	[5606, 5446]	6368	[7409, 5496]	8592	[8734, 5448]
1921	[3171, 1523]	4145	[2141, 5607]	6369	[4901, 7023]	8593	[711, 8503]
1922	[1361, 3172]	4146	[4604, 2479]	6370	[4884, 6939]	8594	[8735, 8736]
1923	[3173, 2879]	4147	[641, 4616]	6371	[5344, 566]	8595	[4786, 8737]
1924	[3174, 98]	4148	[4914, 2320]	6372	[7410, 4297]	8596	[5489, 7511]
1925	[3175, 3176]	4149	[5608, 4874]	6373	[7411, 5098]	8597	[2376, 8721]
1926	[3177, 267]	4150	[5609, 5041]	6374	[5528, 5150]	8598	[8421, 5044]
1927	[3178, 3179]	4151	[5610, 600]	6375	[2040, 5434]	8599	[7517, 683]
1928	[3180, 3181]	4152	[4815, 4681]	6376	[7136, 1872]	8600	[4338, 8738]
1929	[1468, 3182]	4153	[5611, 5612]	6377	[7412, 4991]	8601	[4767, 4548]
1930	[3183, 29]	4154	[5613, 5614]	6378	[7043, 4545]	8602	[4876, 8329]
1931	[3184, 3185]	4155	[5615, 2608]	6379	[7078, 4782]	8603	[1796, 7066]
1932	[3186, 3187]	4156	[5616, 801]	6380	[7413, 7414]	8604	[4908, 8739]
1933	[3188, 2958]	4157	[2000, 2114]	6381	[217, 691]	8605	[6991, 8454]
1934	[3189, 3007]	4158	[5617, 5618]	6382	[7415, 5022]	8606	[7098, 720]

1935	[3190, 3191]	4159	[190, 4980]	6383	[7416, 2323]	8607	[4855, 619]
1936	[3192, 2861]	4160	[5619, 5462]	6384	[1730, 7417]	8608	[8740, 4951]
1937	[3193, 3035]	4161	[5620, 2356]	6385	[5109, 4973]	8609	[8741, 8465]
1938	[2955, 3194]	4162	[4475, 1857]	6386	[7418, 4314]	8610	[4827, 5407]
1939	[3195, 1395]	4163	[5621, 5139]	6387	[5145, 143]	8611	[2425, 7658]
1940	[3196, 3197]	4164	[1836, 5249]	6388	[7107, 5349]	8612	[8488, 2193]
1941	[3198, 3199]	4165	[1763, 2316]	6389	[7404, 4579]	8613	[163, 8742]
1942	[3200, 3201]	4166	[5180, 4458]	6390	[4437, 5213]	8614	[8373, 8743]
1943	[3202, 961]	4167	[5622, 5623]	6391	[2292, 2009]	8615	[5387, 8744]
1944	[3203, 3204]	4168	[4711, 5453]	6392	[7419, 7420]	8616	[8745, 5645]
1945	[3205, 3206]	4169	[5624, 2046]	6393	[7421, 6954]	8617	[8746, 8302]
1946	[3207, 3208]	4170	[5625, 4438]	6394	[4982, 2313]	8618	[5660, 5258]
1947	[3209, 3210]	4171	[1985, 1716]	6395	[7422, 4715]	8619	[8747, 8748]
1948	[3211, 3020]	4172	[5626, 4385]	6396	[7423, 2690]	8620	[7653, 2163]
1949	[930, 1196]	4173	[2514, 5627]	6397	[1783, 7308]	8621	[4460, 797]
1950	[3212, 250]	4174	[2765, 5031]	6398	[7424, 5234]	8622	[7496, 4596]
1951	[3213, 3214]	4175	[5628, 5629]	6399	[4853, 5119]	8623	[54, 8269]
1952	[3215, 3096]	4176	[5630, 5631]	6400	[7425, 4633]	8624	[5477, 2438]
1953	[1136, 3216]	4177	[5293, 164]	6401	[7426, 4430]	8625	[8749, 8544]
1954	[3217, 288]	4178	[2162, 5632]	6402	[42, 7242]	8626	[792, 8537]
1955	[3218, 3219]	4179	[5633, 1760]	6403	[7427, 2030]	8627	[700, 1732]
1956	[3152, 3220]	4180	[1855, 4351]	6404	[7428, 5479]	8628	[57, 8750]
1957	[3221, 3222]	4181	[5455, 5169]	6405	[7429, 2333]	8629	[1766, 7065]
1958	[3223, 923]	4182	[5634, 2062]	6406	[7430, 4275]	8630	[8424, 7609]
1959	[3224, 3225]	4183	[5635, 5636]	6407	[7431, 7085]	8631	[7362, 4401]
1960	[3226, 3227]	4184	[5637, 5638]	6408	[7088, 2549]	8632	[8751, 5290]
1961	[3228, 390]	4185	[134, 5134]	6409	[7432, 7433]	8633	[7472, 5485]
1962	[3229, 3230]	4186	[194, 4606]	6410	[6968, 1868]	8634	[8752, 215]
1963	[3231, 1399]	4187	[5639, 5640]	6411	[1997, 7406]	8635	[1852, 8753]
1964	[3232, 3233]	4188	[4866, 5641]	6412	[4913, 31]	8636	[8754, 8411]
1965	[3234, 3235]	4189	[5642, 2371]	6413	[5084, 2659]	8637	[2613, 4346]
1966	[3236, 3237]	4190	[5643, 731]	6414	[2526, 1919]	8638	[2143, 8755]
1967	[3238, 3239]	4191	[5644, 5645]	6415	[4340, 196]	8639	[8756, 4750]
1968	[3240, 3241]	4192	[1923, 4704]	6416	[4279, 693]	8640	[744, 8757]
1969	[1023, 1007]	4193	[5646, 5647]	6417	[7434, 7435]	8641	[1725, 7408]
1970	[3242, 1009]	4194	[5648, 5161]	6418	[7436, 4853]	8642	[8758, 5529]
1971	[3243, 936]	4195	[5649, 4282]	6419	[7437, 4483]	8643	[766, 7077]
1972	[2807, 3244]	4196	[5650, 5651]	6420	[7438, 5351]	8644	[8759, 4231]
1973	[1043, 3245]	4197	[1942, 4269]	6421	[2674, 795]	8645	[8296, 6963]
1974	[3246, 3247]	4198	[5652, 5207]	6422	[2424, 7439]	8646	[7515, 2072]
1975	[3248, 3249]	4199	[5653, 5654]	6423	[7440, 6968]	8647	[4277, 8483]
1976	[2990, 3250]	4200	[1854, 2388]	6424	[2470, 7095]	8648	[890, 8760]
1977	[3251, 3252]	4201	[2032, 5655]	6425	[2570, 7441]	8649	[2607, 2277]
1978	[107, 3253]	4202	[5656, 5572]	6426	[2677, 5248]	8650	[8761, 7538]

1979	[3254, 3155]	4203	[1719, 5657]	6427	[904, 1667]	8651	[5518, 2663]
1980	[3255, 1289]	4204	[5658, 5027]	6428	[7070, 4360]	8652	[8762, 7703]
1981	[3256, 3257]	4205	[5659, 5126]	6429	[516, 700]	8653	[8763, 5598]
1982	[3258, 3259]	4206	[5660, 723]	6430	[7442, 7257]	8654	[2347, 7512]
1983	[3260, 3261]	4207	[5661, 4482]	6431	[5155, 6922]	8655	[8764, 5327]
1984	[2909, 1635]	4208	[5662, 1831]	6432	[7443, 4954]	8656	[603, 7372]
1985	[3262, 3263]	4209	[5179, 2541]	6433	[7444, 5036]	8657	[8765, 8492]
1986	[3264, 1153]	4210	[2126, 58]	6434	[4964, 2638]	8658	[8267, 2647]
1987	[2799, 1454]	4211	[5663, 576]	6435	[4797, 7445]	8659	[4540, 188]
1988	[2852, 3265]	4212	[667, 509]	6436	[7446, 5430]	8660	[4879, 8766]
1989	[3266, 3267]	4213	[5480, 5664]	6437	[4657, 7447]	8661	[8767, 5222]
1990	[331, 2825]	4214	[2383, 1878]	6438	[7448, 4454]	8662	[8768, 8372]
1991	[3074, 3268]	4215	[2687, 5236]	6439	[7449, 1748]	8663	[5073, 2431]
1992	[3269, 3270]	4216	[5665, 5666]	6440	[7450, 7357]	8664	[5450, 2273]
1993	[3271, 3272]	4217	[5667, 5668]	6441	[4495, 4367]	8665	[8769, 8770]
1994	[3273, 3191]	4218	[5669, 4811]	6442	[7451, 7155]	8666	[4287, 7499]
1995	[3274, 119]	4219	[4234, 5670]	6443	[846, 816]	8667	[642, 7490]
1996	[3275, 2923]	4220	[5671, 5251]	6444	[7439, 4595]	8668	[51, 8771]
1997	[3276, 3277]	4221	[1206, 5672]	6445	[2125, 57]	8669	[2299, 2209]
1998	[3278, 1500]	4222	[3594, 5673]	6446	[7452, 7338]	8670	[4578, 5425]
1999	[3279, 3280]	4223	[3224, 5674]	6447	[5494, 2763]	8671	[1660, 2572]
2000	[3125, 3281]	4224	[5675, 5676]	6448	[7453, 7454]	8672	[8772, 8743]
2001	[3282, 444]	4225	[2831, 5677]	6449	[4840, 4722]	8673	[8773, 8415]
2002	[1275, 3283]	4226	[5678, 5679]	6450	[7455, 486]	8674	[8774, 2252]
2003	[3284, 1073]	4227	[110, 2789]	6451	[7095, 7456]	8675	[8775, 8353]
2004	[931, 1197]	4228	[5680, 3736]	6452	[5083, 5136]	8676	[7235, 8417]
2005	[3285, 994]	4229	[5681, 5682]	6453	[566, 7457]	8677	[8510, 7553]
2006	[3286, 3287]	4230	[5683, 5684]	6454	[7458, 7459]	8678	[8776, 4856]
2007	[3114, 1446]	4231	[3680, 5685]	6455	[2569, 7460]	8679	[8777, 8410]
2008	[941, 3288]	4232	[5686, 1450]	6456	[7461, 7462]	8680	[2099, 134]
2009	[438, 3289]	4233	[5687, 5688]	6457	[2268, 5300]	8681	[8778, 692]
2010	[3290, 1160]	4234	[5689, 5690]	6458	[5614, 5486]	8682	[8779, 8780]
2011	[1315, 3291]	4235	[3498, 2834]	6459	[7340, 7463]	8683	[8781, 7691]
2012	[3292, 1263]	4236	[72, 921]	6460	[2478, 4386]	8684	[2714, 8481]
2013	[3293, 929]	4237	[3593, 1047]	6461	[688, 6924]	8685	[8782, 8391]
2014	[1617, 3294]	4238	[5691, 3117]	6462	[7464, 527]	8686	[8783, 6923]
2015	[3295, 3296]	4239	[5692, 3422]	6463	[7391, 2350]	8687	[2745, 7258]
2016	[3297, 3298]	4240	[3574, 5693]	6464	[4342, 1781]	8688	[2247, 4924]
2017	[3299, 3300]	4241	[5694, 5695]	6465	[820, 4745]	8689	[8784, 8785]
2018	[949, 3301]	4242	[3947, 443]	6466	[4819, 6971]	8690	[8786, 1661]
2019	[3302, 949]	4243	[3646, 5696]	6467	[4938, 7465]	8691	[1883, 4981]
2020	[3303, 416]	4244	[5697, 5698]	6468	[7466, 7467]	8692	[4228, 2342]
2021	[3304, 2930]	4245	[422, 394]	6469	[7468, 7265]	8693	[7709, 8282]
2022	[3305, 3306]	4246	[5699, 5700]	6470	[7469, 5421]	8694	[4227, 8328]

2023	[3307, 3308]	4247	[5701, 2794]	6471	[7409, 2193]	8695	[565, 2327]
2024	[3309, 3310]	4248	[3026, 3525]	6472	[7320, 2612]	8696	[8787, 5167]
2025	[3311, 3312]	4249	[5702, 5703]	6473	[7470, 4455]	8697	[8788, 2025]
2026	[3313, 2892]	4250	[5704, 5705]	6474	[4602, 2235]	8698	[6956, 8473]
2027	[3314, 3315]	4251	[5706, 5707]	6475	[4281, 7471]	8699	[779, 7491]
2028	[3316, 3317]	4252	[3204, 1264]	6476	[4442, 2628]	8700	[2398, 8530]
2029	[3318, 1162]	4253	[5708, 5709]	6477	[7472, 5614]	8701	[8789, 2277]
2030	[3319, 3320]	4254	[5710, 5711]	6478	[7473, 4983]	8702	[8790, 5047]
2031	[3321, 3322]	4255	[5703, 1503]	6479	[7474, 7350]	8703	[8791, 8792]
2032	[3323, 3324]	4256	[3908, 1495]	6480	[7475, 4757]	8704	[8793, 8719]
2033	[3325, 3326]	4257	[1284, 5712]	6481	[493, 4749]	8705	[7307, 4732]
2034	[3327, 352]	4258	[5713, 5714]	6482	[7476, 5199]	8706	[8794, 5240]
2035	[3328, 3329]	4259	[1440, 2797]	6483	[1659, 7477]	8707	[4030, 8795]
2036	[250, 3330]	4260	[1442, 4074]	6484	[4345, 2614]	8708	[8796, 1372]
2037	[1596, 3331]	4261	[5715, 5716]	6485	[5569, 1687]	8709	[3870, 2903]
2038	[3332, 3333]	4262	[5717, 5718]	6486	[5282, 7459]	8710	[3523, 8797]
2039	[3334, 3335]	4263	[5719, 5720]	6487	[7478, 7479]	8711	[8798, 3890]
2040	[1077, 1205]	4264	[1548, 2818]	6488	[5156, 5492]	8712	[3994, 3743]
2041	[3336, 3337]	4265	[5721, 2952]	6489	[5214, 4585]	8713	[8799, 1274]
2042	[3338, 3339]	4266	[3167, 5722]	6490	[7422, 7480]	8714	[8121, 3994]
2043	[3340, 3341]	4267	[5723, 5724]	6491	[7481, 6957]	8715	[8800, 8209]
2044	[3342, 3343]	4268	[5725, 5711]	6492	[2531, 2331]	8716	[4074, 2996]
2045	[3344, 3345]	4269	[3199, 4168]	6493	[7482, 7483]	8717	[427, 8241]
2046	[3346, 933]	4270	[5726, 5709]	6494	[1831, 2498]	8718	[6367, 5796]
2047	[3347, 337]	4271	[5727, 3111]	6495	[7484, 6905]	8719	[8801, 8802]
2048	[3348, 3349]	4272	[3587, 3060]	6496	[4621, 7485]	8720	[5831, 5695]
2049	[3350, 1070]	4273	[5728, 5729]	6497	[7467, 7486]	8721	[8803, 8804]
2050	[3351, 1309]	4274	[5730, 5731]	6498	[5004, 196]	8722	[3773, 3707]
2051	[3007, 3352]	4275	[5732, 1575]	6499	[4418, 2769]	8723	[8805, 1391]
2052	[3353, 1406]	4276	[3863, 332]	6500	[7487, 5149]	8724	[1027, 4179]
2053	[3354, 3355]	4277	[5733, 5734]	6501	[7112, 7488]	8725	[361, 8806]
2054	[3356, 3357]	4278	[5735, 5736]	6502	[1732, 7489]	8726	[8807, 8808]
2055	[3358, 3359]	4279	[4126, 1520]	6503	[5333, 13]	8727	[3472, 3578]
2056	[3360, 950]	4280	[5737, 5738]	6504	[7490, 839]	8728	[5867, 120]
2057	[938, 1316]	4281	[5739, 3471]	6505	[7491, 7307]	8729	[1263, 7924]
2058	[940, 3361]	4282	[5740, 5741]	6506	[7492, 4909]	8730	[6640, 1131]
2059	[3362, 3363]	4283	[3772, 283]	6507	[7296, 4824]	8731	[1470, 1612]
2060	[3364, 3365]	4284	[5742, 5743]	6508	[1730, 4337]	8732	[1474, 8609]
2061	[3366, 3367]	4285	[1199, 5744]	6509	[7024, 4872]	8733	[6703, 8809]
2062	[3368, 3369]	4286	[5745, 5746]	6510	[7493, 7182]	8734	[8142, 2838]
2063	[3370, 3371]	4287	[5747, 5748]	6511	[7494, 612]	8735	[4025, 8810]
2064	[1639, 3372]	4288	[5749, 3401]	6512	[7495, 7140]	8736	[8811, 8645]
2065	[3373, 3374]	4289	[5750, 3626]	6513	[2134, 2350]	8737	[8812, 3149]
2066	[3375, 2950]	4290	[3535, 1409]	6514	[7496, 644]	8738	[8813, 8814]

2067	[3376, 2817]	4291	[5751, 2875]	6515	[5528, 6943]	8739	[6436, 8815]
2068	[3377, 1481]	4292	[25, 5752]	6516	[2180, 4290]	8740	[1497, 2799]
2069	[3378, 1268]	4293	[5753, 3072]	6517	[2566, 7170]	8741	[1361, 3885]
2070	[3379, 3380]	4294	[3640, 5754]	6518	[4741, 884]	8742	[318, 5744]
2071	[3381, 1234]	4295	[5755, 5756]	6519	[7497, 5471]	8743	[8816, 8817]
2072	[3137, 3382]	4296	[1548, 3534]	6520	[7498, 1971]	8744	[3481, 7835]
2073	[3383, 3384]	4297	[3062, 5757]	6521	[7499, 5565]	8745	[3875, 4088]
2074	[3385, 64]	4298	[5758, 4129]	6522	[7500, 2140]	8746	[929, 7873]
2075	[3386, 3387]	4299	[5759, 4131]	6523	[7501, 1829]	8747	[6753, 5853]
2076	[3388, 986]	4300	[3663, 5760]	6524	[6920, 2553]	8748	[8818, 3336]
2077	[3389, 1271]	4301	[5761, 5762]	6525	[4829, 4707]	8749	[3253, 6894]
2078	[3390, 3391]	4302	[5763, 4175]	6526	[7502, 2559]	8750	[8819, 3039]
2079	[3392, 3063]	4303	[5764, 5765]	6527	[5299, 2269]	8751	[6499, 6628]
2080	[3393, 3394]	4304	[5766, 3095]	6528	[7503, 712]	8752	[1606, 419]
2081	[3114, 2783]	4305	[5767, 5768]	6529	[7504, 7505]	8753	[8820, 3179]
2082	[3395, 3396]	4306	[1268, 3669]	6530	[4992, 7506]	8754	[8821, 5747]
2083	[3397, 3398]	4307	[5769, 5770]	6531	[7272, 1812]	8755	[8822, 6839]
2084	[3399, 3400]	4308	[5771, 5772]	6532	[5362, 4933]	8756	[8555, 7827]
2085	[3401, 3402]	4309	[5773, 5774]	6533	[7507, 5310]	8757	[6617, 3308]
2086	[3403, 3404]	4310	[5775, 3749]	6534	[1811, 7273]	8758	[4007, 1216]
2087	[3405, 3406]	4311	[5776, 2795]	6535	[7508, 7509]	8759	[967, 7910]
2088	[1227, 3407]	4312	[5777, 5778]	6536	[7510, 7348]	8760	[8823, 1329]
2089	[3408, 3409]	4313	[5779, 19]	6537	[5378, 7400]	8761	[6135, 5686]
2090	[2908, 3410]	4314	[5780, 5781]	6538	[5147, 2344]	8762	[6679, 6402]
2091	[3411, 3412]	4315	[3284, 5782]	6539	[4969, 7511]	8763	[8824, 3745]
2092	[3413, 3414]	4316	[5783, 3278]	6540	[866, 7512]	8764	[7747, 6657]
2093	[3415, 3416]	4317	[5784, 5785]	6541	[2139, 7398]	8765	[1545, 5843]
2094	[340, 3417]	4318	[5786, 1242]	6542	[7513, 7514]	8766	[8825, 3221]
2095	[3357, 3418]	4319	[5787, 3397]	6543	[7515, 7516]	8767	[6861, 1000]
2096	[3419, 2811]	4320	[5788, 5789]	6544	[2277, 2326]	8768	[3522, 8826]
2097	[3197, 3420]	4321	[253, 4131]	6545	[2433, 2438]	8769	[3234, 3059]
2098	[3421, 3422]	4322	[255, 5790]	6546	[7517, 2536]	8770	[8827, 4121]
2099	[3423, 2786]	4323	[5791, 5792]	6547	[7518, 2682]	8771	[8828, 6689]
2100	[3424, 3425]	4324	[5793, 3398]	6548	[5177, 7039]	8772	[2806, 5917]
2101	[3426, 390]	4325	[3530, 3609]	6549	[1824, 4697]	8773	[1375, 3665]
2102	[3427, 3428]	4326	[3008, 4143]	6550	[832, 597]	8774	[6002, 8829]
2103	[459, 3429]	4327	[5794, 1308]	6551	[5344, 2529]	8775	[8830, 6110]
2104	[3430, 3431]	4328	[1117, 3839]	6552	[7519, 5026]	8776	[6550, 8657]
2105	[1278, 3432]	4329	[2917, 1226]	6553	[7429, 7520]	8777	[8831, 8644]
2106	[3433, 3434]	4330	[5795, 5796]	6554	[7217, 7105]	8778	[3640, 8832]
2107	[3173, 3435]	4331	[5797, 5798]	6555	[7521, 4514]	8779	[3575, 6462]
2108	[3436, 3285]	4332	[5799, 3301]	6556	[7522, 4775]	8780	[8833, 8834]
2109	[96, 3437]	4333	[5800, 5801]	6557	[7325, 5202]	8781	[6801, 6346]
2110	[3438, 3434]	4334	[3012, 5802]	6558	[7523, 4876]	8782	[8835, 1570]

2111	[3439, 3394]	4335	[5803, 5804]	6559	[7524, 652]	8783	[258, 3980]
2112	[2820, 3440]	4336	[1146, 3322]	6560	[7023, 2105]	8784	[1170, 8014]
2113	[3441, 3442]	4337	[2887, 3257]	6561	[4932, 4782]	8785	[8836, 8694]
2114	[1322, 1204]	4338	[1459, 3053]	6562	[7525, 4829]	8786	[4206, 8236]
2115	[3443, 1424]	4339	[5805, 5806]	6563	[7526, 775]	8787	[7993, 3960]
2116	[3444, 3445]	4340	[5807, 382]	6564	[5304, 5512]	8788	[977, 5855]
2117	[3446, 3447]	4341	[5808, 1315]	6565	[7527, 7350]	8789	[4074, 1070]
2118	[3448, 3449]	4342	[5809, 1386]	6566	[7528, 529]	8790	[8624, 8584]
2119	[3450, 3451]	4343	[1601, 5810]	6567	[7529, 7093]	8791	[3440, 1550]
2120	[3452, 3300]	4344	[3451, 3013]	6568	[2130, 4826]	8792	[8837, 8838]
2121	[3453, 3454]	4345	[3772, 5811]	6569	[7334, 7530]	8793	[3343, 8043]
2122	[3455, 954]	4346	[5812, 972]	6570	[7074, 552]	8794	[8839, 1192]
2123	[3456, 3457]	4347	[3782, 3409]	6571	[1, 5414]	8795	[8840, 8841]
2124	[1010, 3458]	4348	[5813, 3361]	6572	[4887, 7341]	8796	[4522, 2402]
2125	[3459, 116]	4349	[953, 3657]	6573	[5649, 7471]	8797	[8842, 8843]
2126	[3113, 1405]	4350	[5814, 5815]	6574	[2589, 7387]	8798	[2366, 5101]
2127	[3460, 3461]	4351	[3014, 4138]	6575	[7531, 7532]	8799	[5021, 8844]
2128	[3462, 3463]	4352	[3487, 2915]	6576	[7316, 7533]	8800	[8845, 5327]
2129	[3464, 3465]	4353	[5816, 3135]	6577	[7534, 2749]	8801	[6945, 8721]
2130	[3466, 3382]	4354	[5817, 429]	6578	[7535, 7294]	8802	[8846, 774]
2131	[986, 3467]	4355	[4076, 3068]	6579	[7536, 2423]	8803	[2442, 8771]
2132	[2910, 1636]	4356	[3668, 1269]	6580	[7537, 7538]	8804	[5309, 2307]
2133	[3227, 3468]	4357	[1577, 1628]	6581	[5001, 4923]	8805	[8270, 7435]
2134	[3469, 2918]	4358	[5818, 2793]	6582	[2629, 4693]	8806	[8847, 8792]
2135	[3470, 2922]	4359	[5819, 2954]	6583	[7539, 5554]	8807	[5212, 2402]
2136	[1638, 3471]	4360	[5820, 3080]	6584	[7540, 6952]	8808	[8848, 7613]
2137	[3472, 3473]	4361	[467, 5821]	6585	[770, 5599]	8809	[8849, 8850]
2138	[3474, 3475]	4362	[5822, 3532]	6586	[7541, 4473]	8810	[4689, 763]
2139	[3476, 2832]	4363	[5823, 5824]	6587	[2365, 4328]	8811	[8851, 8715]
2140	[301, 3477]	4364	[1405, 1446]	6588	[4549, 5257]	8812	[209, 5204]
2141	[3478, 3479]	4365	[4094, 5825]	6589	[581, 5187]	8813	[2076, 8852]
2142	[3480, 3481]	4366	[5826, 5827]	6590	[7542, 7543]	8814	[8751, 6982]
2143	[3482, 3170]	4367	[3462, 4009]	6591	[7544, 7545]	8815	[7445, 8853]
2144	[3483, 94]	4368	[5828, 1092]	6592	[7546, 5087]	8816	[824, 8390]
2145	[1260, 3484]	4369	[5829, 5830]	6593	[182, 7547]	8817	[8854, 4969]
2146	[3485, 3473]	4370	[5831, 5832]	6594	[7548, 1864]	8818	[8855, 4856]
2147	[3486, 3085]	4371	[3996, 3209]	6595	[7549, 7550]	8819	[4921, 4537]
2148	[3487, 3488]	4372	[1625, 5833]	6596	[7551, 4694]	8820	[7590, 7407]
2149	[3489, 3490]	4373	[5834, 358]	6597	[7194, 7533]	8821	[1674, 5343]
2150	[1289, 1205]	4374	[5835, 3804]	6598	[7552, 7553]	8822	[2575, 8269]
2151	[3056, 3491]	4375	[5836, 3425]	6599	[2349, 7554]	8823	[7523, 8328]
2152	[3492, 3493]	4376	[5837, 3702]	6600	[7555, 7342]	8824	[7374, 785]
2153	[3494, 3495]	4377	[5838, 3491]	6601	[2124, 7556]	8825	[8469, 5378]
2154	[3496, 1084]	4378	[3512, 290]	6602	[7557, 7558]	8826	[8856, 8841]

2155	[3497, 3498]	4379	[3812, 5839]	6603	[1896, 7559]	8827	[8857, 8785]
2156	[3499, 3500]	4380	[5840, 5793]	6604	[7560, 2610]	8828	[7300, 7499]
2157	[3501, 3502]	4381	[3222, 3864]	6605	[4683, 239]	8829	[8858, 140]
2158	[1622, 3503]	4382	[5841, 5842]	6606	[648, 7561]	8830	[7514, 8859]
2159	[3504, 3505]	4383	[5843, 2897]	6607	[1787, 2294]	8831	[4381, 8296]
2160	[3506, 1368]	4384	[3380, 5844]	6608	[7562, 7324]	8832	[8860, 751]
2161	[3507, 3501]	4385	[3631, 3510]	6609	[7349, 2353]	8833	[7455, 6987]
2162	[3508, 1574]	4386	[5845, 320]	6610	[7308, 2500]	8834	[8861, 8862]
2163	[3509, 3510]	4387	[5846, 1634]	6611	[2529, 7457]	8835	[7395, 8737]
2164	[3511, 3129]	4388	[5847, 4167]	6612	[7563, 215]	8836	[8863, 1661]
2165	[3512, 3513]	4389	[327, 5848]	6613	[5551, 7202]	8837	[526, 8864]
2166	[3514, 1233]	4390	[3865, 3974]	6614	[7564, 7565]	8838	[5495, 5176]
2167	[3515, 3516]	4391	[3356, 2908]	6615	[7566, 4791]	8839	[7030, 8347]
2168	[3517, 2827]	4392	[5849, 385]	6616	[4662, 4824]	8840	[3897, 8673]
2169	[3518, 3519]	4393	[5850, 2855]	6617	[7567, 7201]	8841	[8865, 8866]
2170	[3520, 3521]	4394	[5851, 5852]	6618	[240, 4774]	8842	[1514, 7789]
2171	[3522, 980]	4395	[2959, 5853]	6619	[7568, 4495]	8843	[8867, 8868]
2172	[929, 3523]	4396	[401, 5854]	6620	[4700, 7127]	8844	[8869, 8870]
2173	[3524, 3525]	4397	[3229, 1062]	6621	[5171, 7420]	8845	[3987, 6107]
2174	[1435, 3526]	4398	[5826, 3156]	6622	[6915, 1946]	8846	[8871, 1534]
2175	[3527, 3528]	4399	[2983, 5855]	6623	[7569, 7570]	8847	[8641, 3722]
2176	[3529, 3530]	4400	[3058, 3235]	6624	[2533, 4535]	8848	[8872, 8644]
2177	[3531, 3532]	4401	[5856, 1524]	6625	[4263, 7571]	8849	[407, 7872]
2178	[3533, 3534]	4402	[5857, 4206]	6626	[7572, 5106]	8850	[8873, 8874]
2179	[2800, 3535]	4403	[5858, 927]	6627	[7573, 7259]	8851	[1271, 1363]
2180	[3536, 3537]	4404	[5859, 5860]	6628	[1901, 5233]	8852	[8875, 8876]
2181	[3538, 3539]	4405	[5861, 5862]	6629	[5138, 7574]	8853	[6235, 3947]
2182	[3540, 3161]	4406	[5863, 5864]	6630	[7575, 1951]	8854	[8877, 6382]
2183	[125, 3541]	4407	[5865, 5866]	6631	[2080, 2715]	8855	[1591, 6286]
2184	[3542, 3543]	4408	[5867, 1130]	6632	[2118, 6948]	8856	[6302, 1146]
2185	[3544, 2780]	4409	[4127, 1521]	6633	[7576, 5580]	8857	[6364, 449]
2186	[3545, 3546]	4410	[5759, 5868]	6634	[7577, 7578]	8858	[3628, 277]
2187	[3547, 3548]	4411	[5869, 5870]	6635	[7071, 5511]	8859	[8878, 6569]
2188	[2962, 3317]	4412	[5871, 5872]	6636	[7579, 2413]	8860	[6545, 1395]
2189	[1551, 3549]	4413	[5873, 1441]	6637	[7580, 4460]	8861	[8879, 8235]
2190	[3550, 2902]	4414	[5874, 2877]	6638	[5272, 744]	8862	[8880, 391]
2191	[2934, 2838]	4415	[5875, 66]	6639	[2100, 5134]	8863	[1283, 6712]
2192	[3551, 3552]	4416	[3704, 1024]	6640	[4489, 2339]	8864	[8881, 5857]
2193	[3553, 3554]	4417	[5876, 5877]	6641	[7487, 5528]	8865	[7062, 8882]
2194	[3555, 3556]	4418	[87, 4220]	6642	[5550, 7008]	8866	[8883, 4751]
2195	[1648, 467]	4419	[1198, 1330]	6643	[4778, 5307]	8867	[1836, 8864]
2196	[3294, 1477]	4420	[5878, 5879]	6644	[7516, 2073]	8868	[2714, 7467]
2197	[1263, 3557]	4421	[5880, 427]	6645	[1721, 4487]	8869	[4395, 4992]
2198	[984, 2775]	4422	[5881, 1006]	6646	[1956, 1910]	8870	[7597, 7423]

2199	[430, 2921]	4423	[5882, 5883]	6647	[2466, 608]	8871	[5096, 2330]
2200	[3558, 3559]	4424	[5884, 1166]	6648	[7581, 659]	8872	[7115, 2305]
2201	[3560, 3169]	4425	[5885, 3656]	6649	[7582, 652]	8873	[851, 8882]
2202	[3561, 3562]	4426	[4113, 5886]	6650	[2210, 2045]	8874	[8884, 164]
2203	[104, 25]	4427	[5887, 5888]	6651	[7583, 7584]	8875	[4485, 1999]
2204	[3563, 29]	4428	[5889, 995]	6652	[4336, 7417]	8876	[8885, 8886]
2205	[3564, 3565]	4429	[5890, 5719]	6653	[7585, 7586]	8877	[678, 1933]
2206	[3566, 3567]	4430	[1104, 5891]	6654	[7587, 2517]	8878	[7492, 8739]
2207	[3274, 3568]	4431	[1370, 5892]	6655	[7588, 2093]	8879	[7609, 8859]
2208	[3569, 3570]	4432	[5893, 3373]	6656	[7589, 5521]	8880	[8887, 8780]
2209	[3571, 2777]	4433	[276, 477]	6657	[7590, 5386]	8881	[5189, 8338]
2210	[913, 3572]	4434	[5894, 3299]	6658	[5456, 5452]	8882	[8888, 3203]
2211	[68, 3573]	4435	[5895, 5896]	6659	[4723, 7381]	8883	[3636, 3892]
2212	[3574, 1240]	4436	[5897, 3910]	6660	[7591, 7125]	8884	[8889, 5676]
2213	[3575, 2985]	4437	[2798, 1498]	6661	[5606, 5555]	8885	[8890, 8891]
2214	[3576, 479]	4438	[3993, 3742]	6662	[7045, 7592]	8886	[7764, 7792]
2215	[3577, 3030]	4439	[5898, 5690]	6663	[7593, 1701]	8887	[1003, 5874]
2216	[3578, 3579]	4440	[5899, 3567]	6664	[7594, 7595]	8888	[5610, 8456]
2217	[3580, 3158]	4441	[5900, 3159]	6665	[4270, 5390]	8889	[7518, 2080]
2218	[1494, 3330]	4442	[5901, 4151]	6666	[7127, 7596]	8890	[5459, 8892]
2219	[3486, 296]	4443	[5902, 5903]	6667	[7449, 4567]	8891	[8893, 5651]
2220	[3581, 3272]	4444	[5904, 5905]	6668	[2284, 7071]	8892	[8894, 6177]
2221	[3582, 3583]	4445	[5906, 5907]	6669	[2027, 7248]	8893	[8052, 5988]
2222	[3293, 3584]	4446	[5908, 5909]	6670	[7597, 2689]	8894	[2759, 5378]
2223	[3585, 3586]	4447	[5910, 354]	6671	[4551, 5082]		

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	1483	1	2966	0	4449	1	5932	1	7415	1
1	0	1484	1	2967	0	4450	0	5933	1	7416	1
2	0	1485	1	2968	1	4451	0	5934	1	7417	0
3	0	1486	0	2969	1	4452	1	5935	0	7418	0
4	0	1487	0	2970	1	4453	0	5936	0	7419	0
5	0	1488	0	2971	0	4454	0	5937	1	7420	1
6	0	1489	0	2972	0	4455	1	5938	1	7421	1
7	0	1490	1	2973	0	4456	1	5939	1	7422	0
8	0	1491	1	2974	0	4457	1	5940	1	7423	0
9	0	1492	0	2975	1	4458	1	5941	1	7424	1
10	0	1493	0	2976	1	4459	0	5942	1	7425	1
11	0	1494	1	2977	0	4460	0	5943	1	7426	1
12	1	1495	0	2978	0	4461	0	5944	1	7427	1
13	0	1496	0	2979	0	4462	1	5945	0	7428	0
14	1	1497	1	2980	0	4463	1	5946	0	7429	0
15	0	1498	1	2981	1	4464	1	5947	1	7430	1

16	0	1499	1	2982	1	4465	0	5948	1	7431	0
17	0	1500	0	2983	0	4466	0	5949	0	7432	0
18	0	1501	0	2984	1	4467	1	5950	1	7433	1
19	0	1502	0	2985	0	4468	1	5951	1	7434	0
20	1	1503	1	2986	1	4469	0	5952	1	7435	0
21	0	1504	0	2987	1	4470	0	5953	0	7436	1
22	0	1505	0	2988	1	4471	1	5954	0	7437	1
23	0	1506	0	2989	0	4472	0	5955	0	7438	0
24	0	1507	0	2990	0	4473	1	5956	1	7439	1
25	1	1508	0	2991	0	4474	1	5957	0	7440	1
26	0	1509	1	2992	1	4475	1	5958	1	7441	0
27	0	1510	0	2993	1	4476	1	5959	1	7442	0
28	0	1511	0	2994	1	4477	1	5960	1	7443	1
29	1	1512	0	2995	0	4478	1	5961	1	7444	0
30	0	1513	0	2996	0	4479	0	5962	0	7445	0
31	0	1514	0	2997	1	4480	1	5963	0	7446	1
32	1	1515	1	2998	1	4481	1	5964	0	7447	1
33	0	1516	1	2999	0	4482	1	5965	0	7448	0
34	1	1517	0	3000	1	4483	1	5966	1	7449	1
35	0	1518	1	3001	1	4484	0	5967	0	7450	0
36	1	1519	0	3002	0	4485	1	5968	0	7451	1
37	0	1520	1	3003	1	4486	1	5969	1	7452	1
38	1	1521	0	3004	0	4487	0	5970	1	7453	1
39	0	1522	0	3005	0	4488	0	5971	0	7454	1
40	0	1523	1	3006	0	4489	0	5972	1	7455	1
41	1	1524	1	3007	0	4490	0	5973	1	7456	1
42	0	1525	0	3008	0	4491	0	5974	1	7457	0
43	0	1526	1	3009	0	4492	1	5975	1	7458	0
44	0	1527	0	3010	1	4493	1	5976	1	7459	1
45	0	1528	0	3011	0	4494	0	5977	1	7460	1
46	1	1529	1	3012	0	4495	1	5978	1	7461	1
47	0	1530	1	3013	1	4496	1	5979	1	7462	1
48	0	1531	0	3014	0	4497	1	5980	0	7463	0
49	0	1532	1	3015	0	4498	0	5981	1	7464	1
50	1	1533	0	3016	0	4499	0	5982	1	7465	0
51	1	1534	1	3017	0	4500	1	5983	1	7466	0
52	1	1535	1	3018	1	4501	0	5984	0	7467	0
53	0	1536	0	3019	1	4502	1	5985	1	7468	1
54	0	1537	0	3020	1	4503	0	5986	0	7469	0
55	0	1538	0	3021	0	4504	1	5987	0	7470	1
56	0	1539	0	3022	0	4505	0	5988	1	7471	0
57	0	1540	1	3023	1	4506	0	5989	1	7472	0
58	1	1541	1	3024	0	4507	1	5990	1	7473	0
59	1	1542	0	3025	1	4508	1	5991	0	7474	0

60	1	1543	0	3026	0	4509	0	5992	0	7475	1
61	0	1544	0	3027	0	4510	1	5993	1	7476	1
62	0	1545	1	3028	0	4511	1	5994	0	7477	1
63	0	1546	0	3029	0	4512	0	5995	1	7478	0
64	0	1547	0	3030	0	4513	0	5996	0	7479	0
65	1	1548	1	3031	1	4514	1	5997	0	7480	1
66	0	1549	0	3032	1	4515	1	5998	1	7481	1
67	0	1550	0	3033	0	4516	0	5999	0	7482	0
68	1	1551	1	3034	1	4517	1	6000	0	7483	0
69	1	1552	1	3035	0	4518	0	6001	0	7484	1
70	0	1553	1	3036	0	4519	0	6002	1	7485	1
71	0	1554	0	3037	1	4520	0	6003	0	7486	1
72	1	1555	0	3038	0	4521	1	6004	0	7487	0
73	1	1556	0	3039	0	4522	0	6005	1	7488	0
74	0	1557	1	3040	0	4523	1	6006	0	7489	1
75	0	1558	1	3041	0	4524	1	6007	1	7490	0
76	0	1559	1	3042	1	4525	0	6008	1	7491	0
77	1	1560	0	3043	0	4526	1	6009	1	7492	0
78	0	1561	1	3044	0	4527	0	6010	0	7493	0
79	0	1562	1	3045	0	4528	1	6011	0	7494	0
80	1	1563	0	3046	1	4529	0	6012	0	7495	1
81	0	1564	0	3047	1	4530	1	6013	1	7496	1
82	0	1565	0	3048	0	4531	1	6014	1	7497	0
83	1	1566	1	3049	1	4532	0	6015	1	7498	1
84	0	1567	1	3050	0	4533	0	6016	1	7499	1
85	0	1568	0	3051	0	4534	1	6017	1	7500	0
86	1	1569	1	3052	0	4535	0	6018	1	7501	0
87	0	1570	1	3053	0	4536	0	6019	0	7502	1
88	1	1571	0	3054	1	4537	0	6020	0	7503	1
89	0	1572	1	3055	0	4538	0	6021	0	7504	1
90	0	1573	0	3056	1	4539	1	6022	0	7505	0
91	0	1574	0	3057	1	4540	1	6023	1	7506	1
92	1	1575	1	3058	1	4541	0	6024	1	7507	1
93	1	1576	1	3059	1	4542	0	6025	1	7508	0
94	0	1577	1	3060	1	4543	0	6026	0	7509	0
95	0	1578	1	3061	1	4544	1	6027	0	7510	0
96	1	1579	0	3062	0	4545	0	6028	1	7511	0
97	0	1580	1	3063	0	4546	1	6029	1	7512	1
98	0	1581	0	3064	1	4547	0	6030	0	7513	0
99	0	1582	0	3065	1	4548	1	6031	0	7514	1
100	0	1583	0	3066	1	4549	0	6032	0	7515	0
101	1	1584	1	3067	1	4550	1	6033	0	7516	1
102	0	1585	1	3068	1	4551	1	6034	1	7517	1
103	1	1586	0	3069	0	4552	0	6035	0	7518	1

104	0	1587	0	3070	0	4553	0	6036	1	7519	0
105	1	1588	1	3071	0	4554	1	6037	1	7520	1
106	0	1589	0	3072	0	4555	1	6038	0	7521	1
107	0	1590	1	3073	1	4556	1	6039	0	7522	1
108	0	1591	0	3074	0	4557	1	6040	1	7523	1
109	0	1592	0	3075	0	4558	1	6041	1	7524	1
110	0	1593	0	3076	1	4559	0	6042	0	7525	1
111	0	1594	1	3077	1	4560	0	6043	0	7526	1
112	0	1595	0	3078	0	4561	0	6044	0	7527	1
113	0	1596	1	3079	1	4562	1	6045	1	7528	0
114	0	1597	0	3080	0	4563	1	6046	0	7529	1
115	0	1598	1	3081	0	4564	1	6047	1	7530	1
116	1	1599	0	3082	0	4565	1	6048	1	7531	0
117	0	1600	1	3083	1	4566	1	6049	1	7532	0
118	1	1601	1	3084	0	4567	0	6050	0	7533	1
119	0	1602	1	3085	1	4568	1	6051	1	7534	1
120	1	1603	1	3086	0	4569	0	6052	1	7535	0
121	0	1604	1	3087	0	4570	0	6053	0	7536	0
122	0	1605	1	3088	1	4571	0	6054	0	7537	0
123	0	1606	0	3089	1	4572	0	6055	0	7538	0
124	0	1607	1	3090	0	4573	0	6056	0	7539	1
125	0	1608	1	3091	0	4574	0	6057	1	7540	1
126	0	1609	1	3092	0	4575	1	6058	0	7541	1
127	0	1610	0	3093	1	4576	1	6059	1	7542	1
128	0	1611	1	3094	1	4577	1	6060	0	7543	1
129	0	1612	1	3095	1	4578	0	6061	0	7544	0
130	1	1613	0	3096	0	4579	1	6062	1	7545	0
131	0	1614	0	3097	1	4580	1	6063	0	7546	0
132	0	1615	1	3098	1	4581	1	6064	1	7547	0
133	1	1616	1	3099	0	4582	0	6065	1	7548	1
134	0	1617	0	3100	1	4583	0	6066	0	7549	0
135	1	1618	1	3101	0	4584	0	6067	1	7550	0
136	1	1619	1	3102	1	4585	0	6068	1	7551	0
137	0	1620	0	3103	1	4586	0	6069	1	7552	0
138	1	1621	0	3104	1	4587	1	6070	0	7553	0
139	1	1622	0	3105	1	4588	1	6071	1	7554	0
140	0	1623	0	3106	0	4589	0	6072	0	7555	1
141	1	1624	0	3107	0	4590	0	6073	0	7556	1
142	0	1625	1	3108	0	4591	1	6074	1	7557	0
143	0	1626	0	3109	1	4592	1	6075	0	7558	0
144	1	1627	0	3110	0	4593	0	6076	0	7559	1
145	0	1628	0	3111	0	4594	0	6077	1	7560	0
146	1	1629	0	3112	1	4595	0	6078	1	7561	0
147	0	1630	1	3113	1	4596	0	6079	0	7562	0

148	0	1631	0	3114	1	4597	1	6080	0	7563	1
149	0	1632	0	3115	0	4598	0	6081	0	7564	0
150	0	1633	1	3116	1	4599	1	6082	1	7565	1
151	0	1634	1	3117	0	4600	1	6083	1	7566	1
152	0	1635	1	3118	1	4601	0	6084	0	7567	0
153	1	1636	0	3119	0	4602	1	6085	0	7568	1
154	1	1637	1	3120	0	4603	1	6086	0	7569	0
155	1	1638	0	3121	1	4604	1	6087	1	7570	0
156	0	1639	0	3122	0	4605	1	6088	1	7571	1
157	0	1640	1	3123	0	4606	1	6089	0	7572	0
158	0	1641	0	3124	0	4607	1	6090	1	7573	0
159	1	1642	0	3125	1	4608	1	6091	0	7574	1
160	1	1643	1	3126	0	4609	0	6092	0	7575	1
161	1	1644	0	3127	0	4610	0	6093	0	7576	0
162	0	1645	1	3128	0	4611	0	6094	0	7577	0
163	0	1646	0	3129	0	4612	0	6095	1	7578	0
164	0	1647	1	3130	1	4613	1	6096	0	7579	1
165	1	1648	1	3131	0	4614	0	6097	1	7580	1
166	1	1649	1	3132	0	4615	0	6098	0	7581	0
167	0	1650	0	3133	0	4616	1	6099	1	7582	0
168	0	1651	0	3134	0	4617	1	6100	1	7583	0
169	0	1652	0	3135	0	4618	1	6101	0	7584	0
170	0	1653	0	3136	1	4619	0	6102	0	7585	0
171	1	1654	0	3137	0	4620	0	6103	1	7586	1
172	1	1655	1	3138	1	4621	1	6104	0	7587	1
173	0	1656	0	3139	0	4622	0	6105	0	7588	1
174	0	1657	0	3140	0	4623	0	6106	1	7589	1
175	1	1658	0	3141	0	4624	1	6107	0	7590	0
176	1	1659	0	3142	1	4625	0	6108	1	7591	0
177	1	1660	0	3143	1	4626	0	6109	0	7592	0
178	0	1661	0	3144	1	4627	1	6110	1	7593	0
179	1	1662	1	3145	1	4628	0	6111	1	7594	1
180	0	1663	0	3146	0	4629	0	6112	1	7595	1
181	0	1664	1	3147	1	4630	0	6113	1	7596	0
182	0	1665	0	3148	0	4631	0	6114	1	7597	0
183	1	1666	1	3149	0	4632	0	6115	1	7598	1
184	1	1667	1	3150	1	4633	0	6116	1	7599	1
185	1	1668	0	3151	1	4634	1	6117	0	7600	0
186	1	1669	0	3152	0	4635	1	6118	1	7601	0
187	1	1670	0	3153	0	4636	1	6119	0	7602	1
188	0	1671	0	3154	0	4637	0	6120	0	7603	1
189	1	1672	0	3155	0	4638	0	6121	0	7604	1
190	0	1673	0	3156	1	4639	0	6122	0	7605	1
191	1	1674	1	3157	0	4640	1	6123	0	7606	0

192	1	1675	0	3158	0	4641	0	6124	0	7607	1
193	0	1676	0	3159	1	4642	1	6125	1	7608	0
194	0	1677	1	3160	0	4643	0	6126	0	7609	0
195	0	1678	0	3161	0	4644	1	6127	0	7610	1
196	0	1679	0	3162	0	4645	0	6128	0	7611	0
197	1	1680	1	3163	1	4646	1	6129	1	7612	0
198	0	1681	1	3164	1	4647	1	6130	0	7613	0
199	1	1682	1	3165	1	4648	1	6131	0	7614	1
200	0	1683	1	3166	0	4649	0	6132	1	7615	1
201	0	1684	1	3167	1	4650	0	6133	1	7616	0
202	1	1685	0	3168	1	4651	1	6134	1	7617	1
203	0	1686	0	3169	0	4652	1	6135	1	7618	0
204	0	1687	0	3170	1	4653	1	6136	1	7619	1
205	1	1688	1	3171	0	4654	0	6137	1	7620	1
206	1	1689	0	3172	0	4655	1	6138	0	7621	1
207	1	1690	1	3173	1	4656	1	6139	1	7622	1
208	0	1691	1	3174	1	4657	0	6140	0	7623	1
209	1	1692	0	3175	1	4658	0	6141	1	7624	1
210	0	1693	0	3176	0	4659	0	6142	0	7625	0
211	0	1694	0	3177	0	4660	1	6143	0	7626	0
212	1	1695	1	3178	1	4661	0	6144	1	7627	1
213	0	1696	0	3179	0	4662	0	6145	1	7628	0
214	0	1697	1	3180	0	4663	0	6146	0	7629	0
215	0	1698	1	3181	1	4664	0	6147	1	7630	1
216	0	1699	0	3182	1	4665	0	6148	0	7631	1
217	0	1700	1	3183	1	4666	1	6149	0	7632	0
218	1	1701	1	3184	0	4667	0	6150	1	7633	0
219	1	1702	1	3185	0	4668	0	6151	0	7634	1
220	0	1703	0	3186	1	4669	1	6152	1	7635	0
221	1	1704	1	3187	0	4670	1	6153	1	7636	1
222	0	1705	0	3188	0	4671	1	6154	1	7637	1
223	0	1706	1	3189	1	4672	1	6155	0	7638	1
224	0	1707	1	3190	0	4673	1	6156	0	7639	0
225	1	1708	1	3191	0	4674	0	6157	1	7640	0
226	0	1709	1	3192	0	4675	1	6158	1	7641	1
227	0	1710	1	3193	0	4676	1	6159	0	7642	1
228	0	1711	0	3194	0	4677	1	6160	0	7643	1
229	1	1712	1	3195	1	4678	1	6161	0	7644	0
230	1	1713	1	3196	0	4679	1	6162	0	7645	1
231	1	1714	0	3197	1	4680	0	6163	1	7646	0
232	0	1715	1	3198	0	4681	0	6164	0	7647	1
233	0	1716	1	3199	1	4682	1	6165	1	7648	0
234	1	1717	0	3200	1	4683	1	6166	0	7649	0
235	0	1718	1	3201	0	4684	1	6167	1	7650	1

236	0	1719	0	3202	0	4685	0	6168	0	7651	0
237	1	1720	0	3203	0	4686	0	6169	0	7652	0
238	1	1721	1	3204	0	4687	0	6170	1	7653	1
239	0	1722	1	3205	0	4688	1	6171	0	7654	0
240	0	1723	0	3206	0	4689	1	6172	1	7655	0
241	0	1724	0	3207	1	4690	0	6173	0	7656	1
242	0	1725	0	3208	0	4691	1	6174	0	7657	0
243	0	1726	1	3209	1	4692	0	6175	0	7658	0
244	0	1727	0	3210	1	4693	0	6176	0	7659	1
245	0	1728	0	3211	0	4694	1	6177	0	7660	1
246	0	1729	0	3212	0	4695	1	6178	0	7661	1
247	1	1730	0	3213	0	4696	0	6179	1	7662	1
248	0	1731	0	3214	1	4697	0	6180	1	7663	0
249	0	1732	0	3215	0	4698	1	6181	1	7664	0
250	0	1733	1	3216	1	4699	1	6182	0	7665	1
251	0	1734	0	3217	1	4700	0	6183	0	7666	1
252	0	1735	0	3218	1	4701	0	6184	0	7667	1
253	1	1736	0	3219	0	4702	0	6185	1	7668	0
254	0	1737	1	3220	1	4703	0	6186	1	7669	1
255	0	1738	1	3221	0	4704	0	6187	1	7670	1
256	1	1739	1	3222	0	4705	1	6188	1	7671	0
257	0	1740	1	3223	1	4706	1	6189	0	7672	1
258	0	1741	1	3224	1	4707	1	6190	1	7673	1
259	0	1742	1	3225	0	4708	0	6191	1	7674	0
260	0	1743	0	3226	0	4709	0	6192	0	7675	1
261	1	1744	0	3227	1	4710	0	6193	1	7676	0
262	1	1745	0	3228	1	4711	1	6194	1	7677	0
263	1	1746	1	3229	1	4712	1	6195	0	7678	0
264	0	1747	0	3230	1	4713	1	6196	1	7679	0
265	0	1748	1	3231	1	4714	1	6197	1	7680	1
266	1	1749	1	3232	0	4715	0	6198	0	7681	0
267	0	1750	0	3233	0	4716	0	6199	1	7682	1
268	0	1751	1	3234	0	4717	0	6200	1	7683	1
269	0	1752	0	3235	0	4718	0	6201	0	7684	1
270	0	1753	0	3236	0	4719	0	6202	1	7685	1
271	1	1754	0	3237	0	4720	0	6203	0	7686	1
272	0	1755	1	3238	0	4721	0	6204	0	7687	1
273	1	1756	1	3239	0	4722	0	6205	0	7688	0
274	0	1757	1	3240	0	4723	0	6206	0	7689	1
275	0	1758	0	3241	1	4724	1	6207	0	7690	0
276	1	1759	1	3242	0	4725	0	6208	1	7691	1
277	1	1760	0	3243	0	4726	0	6209	0	7692	0
278	1	1761	0	3244	0	4727	0	6210	0	7693	1
279	1	1762	0	3245	0	4728	1	6211	1	7694	0

280	0	1763	1	3246	1	4729	0	6212	1	7695	1
281	0	1764	0	3247	1	4730	1	6213	0	7696	0
282	1	1765	1	3248	0	4731	1	6214	0	7697	1
283	1	1766	0	3249	0	4732	1	6215	1	7698	0
284	0	1767	1	3250	1	4733	1	6216	1	7699	0
285	0	1768	1	3251	0	4734	1	6217	1	7700	1
286	1	1769	0	3252	1	4735	0	6218	1	7701	1
287	0	1770	1	3253	1	4736	1	6219	0	7702	0
288	0	1771	0	3254	1	4737	0	6220	1	7703	1
289	0	1772	1	3255	1	4738	1	6221	0	7704	1
290	0	1773	0	3256	0	4739	0	6222	1	7705	0
291	0	1774	1	3257	0	4740	1	6223	0	7706	1
292	0	1775	0	3258	1	4741	1	6224	0	7707	1
293	0	1776	0	3259	0	4742	0	6225	0	7708	1
294	1	1777	1	3260	1	4743	1	6226	0	7709	1
295	0	1778	0	3261	0	4744	1	6227	0	7710	1
296	0	1779	0	3262	0	4745	0	6228	1	7711	0
297	0	1780	1	3263	0	4746	1	6229	1	7712	1
298	0	1781	0	3264	0	4747	1	6230	0	7713	0
299	1	1782	0	3265	0	4748	1	6231	0	7714	1
300	0	1783	1	3266	1	4749	1	6232	1	7715	0
301	1	1784	1	3267	0	4750	0	6233	1	7716	1
302	0	1785	0	3268	1	4751	1	6234	0	7717	0
303	1	1786	0	3269	1	4752	0	6235	1	7718	1
304	0	1787	1	3270	1	4753	1	6236	1	7719	1
305	0	1788	1	3271	1	4754	0	6237	0	7720	1
306	0	1789	0	3272	1	4755	0	6238	1	7721	1
307	0	1790	0	3273	1	4756	0	6239	1	7722	0
308	1	1791	0	3274	0	4757	1	6240	1	7723	1
309	0	1792	0	3275	1	4758	0	6241	0	7724	1
310	1	1793	1	3276	0	4759	1	6242	1	7725	1
311	1	1794	1	3277	1	4760	0	6243	0	7726	1
312	0	1795	1	3278	0	4761	0	6244	1	7727	1
313	1	1796	1	3279	1	4762	0	6245	0	7728	1
314	0	1797	1	3280	0	4763	0	6246	1	7729	0
315	1	1798	0	3281	1	4764	0	6247	0	7730	0
316	1	1799	1	3282	0	4765	0	6248	1	7731	1
317	0	1800	1	3283	0	4766	0	6249	1	7732	0
318	0	1801	0	3284	1	4767	1	6250	0	7733	1
319	0	1802	1	3285	0	4768	1	6251	1	7734	1
320	0	1803	0	3286	0	4769	0	6252	1	7735	1
321	1	1804	1	3287	0	4770	0	6253	0	7736	1
322	1	1805	1	3288	1	4771	0	6254	0	7737	0
323	0	1806	0	3289	0	4772	1	6255	1	7738	1

324	1	1807	0	3290	0	4773	1	6256	1	7739	1
325	0	1808	0	3291	1	4774	0	6257	1	7740	1
326	0	1809	1	3292	0	4775	0	6258	1	7741	1
327	0	1810	0	3293	0	4776	1	6259	1	7742	1
328	0	1811	1	3294	1	4777	0	6260	0	7743	1
329	1	1812	0	3295	1	4778	1	6261	0	7744	0
330	0	1813	0	3296	0	4779	1	6262	1	7745	0
331	1	1814	1	3297	1	4780	0	6263	0	7746	0
332	0	1815	1	3298	0	4781	1	6264	1	7747	0
333	1	1816	1	3299	1	4782	0	6265	0	7748	0
334	1	1817	0	3300	0	4783	1	6266	1	7749	1
335	0	1818	0	3301	1	4784	0	6267	1	7750	1
336	1	1819	0	3302	0	4785	1	6268	0	7751	0
337	1	1820	0	3303	1	4786	0	6269	0	7752	0
338	0	1821	1	3304	1	4787	0	6270	1	7753	0
339	0	1822	1	3305	0	4788	0	6271	0	7754	1
340	1	1823	0	3306	0	4789	0	6272	1	7755	0
341	1	1824	0	3307	1	4790	0	6273	0	7756	1
342	0	1825	1	3308	1	4791	0	6274	0	7757	0
343	1	1826	0	3309	0	4792	1	6275	0	7758	0
344	1	1827	1	3310	0	4793	0	6276	0	7759	0
345	0	1828	0	3311	0	4794	0	6277	1	7760	1
346	0	1829	0	3312	1	4795	1	6278	1	7761	1
347	1	1830	0	3313	1	4796	1	6279	0	7762	1
348	0	1831	1	3314	0	4797	0	6280	1	7763	0
349	0	1832	0	3315	1	4798	1	6281	0	7764	1
350	1	1833	1	3316	0	4799	1	6282	0	7765	1
351	0	1834	0	3317	1	4800	1	6283	1	7766	1
352	1	1835	0	3318	0	4801	1	6284	1	7767	0
353	0	1836	0	3319	1	4802	0	6285	0	7768	0
354	1	1837	1	3320	1	4803	0	6286	1	7769	1
355	1	1838	1	3321	0	4804	1	6287	1	7770	1
356	0	1839	1	3322	0	4805	1	6288	0	7771	1
357	1	1840	1	3323	0	4806	0	6289	1	7772	1
358	1	1841	1	3324	1	4807	1	6290	1	7773	1
359	1	1842	1	3325	0	4808	0	6291	0	7774	0
360	1	1843	0	3326	0	4809	1	6292	1	7775	0
361	0	1844	1	3327	1	4810	0	6293	0	7776	0
362	1	1845	1	3328	0	4811	0	6294	1	7777	0
363	0	1846	0	3329	0	4812	1	6295	1	7778	1
364	0	1847	0	3330	1	4813	0	6296	1	7779	0
365	0	1848	1	3331	1	4814	0	6297	0	7780	1
366	1	1849	0	3332	0	4815	0	6298	1	7781	0
367	0	1850	0	3333	0	4816	1	6299	1	7782	0

368	0	1851	1	3334	1	4817	0	6300	1	7783	1
369	0	1852	0	3335	1	4818	0	6301	1	7784	1
370	1	1853	1	3336	0	4819	1	6302	1	7785	0
371	0	1854	0	3337	0	4820	1	6303	0	7786	1
372	1	1855	1	3338	1	4821	0	6304	0	7787	1
373	0	1856	0	3339	1	4822	0	6305	1	7788	1
374	0	1857	1	3340	0	4823	1	6306	1	7789	0
375	0	1858	0	3341	0	4824	1	6307	0	7790	0
376	0	1859	0	3342	1	4825	1	6308	1	7791	0
377	0	1860	0	3343	0	4826	0	6309	0	7792	1
378	0	1861	1	3344	1	4827	1	6310	1	7793	1
379	0	1862	0	3345	0	4828	0	6311	1	7794	0
380	0	1863	0	3346	1	4829	0	6312	0	7795	0
381	0	1864	1	3347	0	4830	0	6313	1	7796	1
382	1	1865	1	3348	1	4831	1	6314	0	7797	0
383	1	1866	0	3349	0	4832	0	6315	1	7798	0
384	0	1867	1	3350	1	4833	1	6316	0	7799	1
385	1	1868	1	3351	1	4834	0	6317	1	7800	1
386	1	1869	0	3352	0	4835	1	6318	1	7801	1
387	0	1870	1	3353	1	4836	1	6319	0	7802	1
388	0	1871	0	3354	0	4837	0	6320	0	7803	1
389	1	1872	1	3355	0	4838	1	6321	1	7804	0
390	0	1873	1	3356	1	4839	1	6322	0	7805	1
391	1	1874	0	3357	0	4840	0	6323	0	7806	1
392	1	1875	1	3358	1	4841	0	6324	1	7807	1
393	1	1876	0	3359	0	4842	1	6325	0	7808	0
394	0	1877	0	3360	1	4843	0	6326	1	7809	0
395	0	1878	1	3361	1	4844	1	6327	1	7810	1
396	0	1879	1	3362	0	4845	0	6328	1	7811	1
397	0	1880	0	3363	0	4846	0	6329	1	7812	1
398	1	1881	1	3364	0	4847	1	6330	1	7813	0
399	1	1882	0	3365	0	4848	1	6331	0	7814	1
400	1	1883	0	3366	0	4849	1	6332	0	7815	1
401	0	1884	0	3367	0	4850	0	6333	1	7816	0
402	1	1885	1	3368	0	4851	0	6334	1	7817	0
403	0	1886	0	3369	1	4852	0	6335	0	7818	0
404	0	1887	0	3370	1	4853	1	6336	0	7819	0
405	1	1888	0	3371	0	4854	1	6337	0	7820	0
406	0	1889	0	3372	1	4855	1	6338	1	7821	0
407	0	1890	0	3373	0	4856	0	6339	1	7822	0
408	0	1891	1	3374	1	4857	1	6340	0	7823	0
409	0	1892	0	3375	1	4858	1	6341	0	7824	1
410	1	1893	0	3376	1	4859	0	6342	1	7825	1
411	1	1894	0	3377	1	4860	0	6343	0	7826	1

412	1	1895	1	3378	0	4861	1	6344	1	7827	1
413	0	1896	0	3379	1	4862	1	6345	0	7828	1
414	0	1897	0	3380	1	4863	1	6346	1	7829	1
415	0	1898	0	3381	1	4864	0	6347	0	7830	0
416	0	1899	1	3382	0	4865	0	6348	1	7831	1
417	0	1900	0	3383	1	4866	1	6349	1	7832	0
418	1	1901	1	3384	0	4867	0	6350	0	7833	1
419	0	1902	0	3385	1	4868	1	6351	0	7834	1
420	0	1903	0	3386	1	4869	0	6352	0	7835	0
421	0	1904	0	3387	0	4870	1	6353	0	7836	0
422	0	1905	1	3388	1	4871	1	6354	0	7837	1
423	1	1906	1	3389	0	4872	1	6355	1	7838	0
424	0	1907	0	3390	1	4873	1	6356	1	7839	1
425	1	1908	0	3391	1	4874	1	6357	0	7840	1
426	0	1909	1	3392	0	4875	1	6358	0	7841	1
427	0	1910	0	3393	1	4876	1	6359	0	7842	1
428	1	1911	0	3394	0	4877	0	6360	1	7843	0
429	1	1912	0	3395	0	4878	0	6361	1	7844	0
430	0	1913	1	3396	1	4879	0	6362	1	7845	1
431	0	1914	1	3397	1	4880	1	6363	1	7846	1
432	0	1915	0	3398	0	4881	1	6364	1	7847	1
433	0	1916	0	3399	0	4882	0	6365	0	7848	1
434	0	1917	1	3400	0	4883	1	6366	1	7849	1
435	1	1918	0	3401	0	4884	0	6367	1	7850	0
436	1	1919	1	3402	1	4885	0	6368	0	7851	0
437	0	1920	1	3403	0	4886	0	6369	1	7852	0
438	0	1921	0	3404	0	4887	0	6370	0	7853	0
439	1	1922	1	3405	1	4888	0	6371	1	7854	0
440	0	1923	1	3406	0	4889	1	6372	0	7855	0
441	0	1924	1	3407	1	4890	0	6373	1	7856	1
442	0	1925	1	3408	0	4891	0	6374	1	7857	1
443	0	1926	0	3409	1	4892	0	6375	1	7858	1
444	1	1927	1	3410	0	4893	1	6376	0	7859	0
445	1	1928	0	3411	0	4894	0	6377	1	7860	0
446	0	1929	0	3412	0	4895	1	6378	0	7861	0
447	1	1930	1	3413	0	4896	0	6379	1	7862	1
448	0	1931	0	3414	1	4897	1	6380	0	7863	1
449	0	1932	1	3415	0	4898	1	6381	0	7864	1
450	0	1933	0	3416	1	4899	1	6382	1	7865	1
451	0	1934	1	3417	1	4900	1	6383	1	7866	0
452	1	1935	0	3418	1	4901	1	6384	0	7867	0
453	1	1936	0	3419	0	4902	1	6385	0	7868	1
454	1	1937	0	3420	0	4903	0	6386	0	7869	1
455	0	1938	1	3421	0	4904	0	6387	1	7870	0

456	0	1939	1	3422	1	4905	1	6388	1	7871	0
457	0	1940	0	3423	1	4906	1	6389	1	7872	1
458	1	1941	0	3424	1	4907	1	6390	0	7873	0
459	1	1942	1	3425	0	4908	1	6391	0	7874	1
460	1	1943	0	3426	0	4909	0	6392	0	7875	0
461	1	1944	0	3427	1	4910	0	6393	1	7876	0
462	0	1945	0	3428	0	4911	1	6394	0	7877	0
463	0	1946	1	3429	0	4912	1	6395	0	7878	1
464	0	1947	1	3430	1	4913	1	6396	0	7879	1
465	0	1948	0	3431	0	4914	1	6397	1	7880	1
466	1	1949	1	3432	1	4915	0	6398	1	7881	0
467	0	1950	0	3433	1	4916	0	6399	1	7882	1
468	0	1951	0	3434	1	4917	1	6400	1	7883	1
469	0	1952	0	3435	0	4918	1	6401	1	7884	1
470	0	1953	0	3436	0	4919	0	6402	0	7885	0
471	0	1954	1	3437	1	4920	1	6403	1	7886	0
472	1	1955	1	3438	0	4921	0	6404	0	7887	1
473	0	1956	0	3439	0	4922	1	6405	0	7888	1
474	1	1957	0	3440	1	4923	0	6406	1	7889	1
475	0	1958	1	3441	1	4924	0	6407	0	7890	0
476	0	1959	1	3442	0	4925	1	6408	1	7891	1
477	0	1960	0	3443	1	4926	1	6409	0	7892	1
478	1	1961	1	3444	1	4927	0	6410	0	7893	0
479	0	1962	1	3445	0	4928	1	6411	0	7894	1
480	0	1963	1	3446	1	4929	0	6412	1	7895	0
481	0	1964	0	3447	1	4930	0	6413	0	7896	0
482	0	1965	0	3448	1	4931	0	6414	0	7897	1
483	0	1966	0	3449	1	4932	0	6415	0	7898	0
484	0	1967	0	3450	0	4933	1	6416	0	7899	0
485	0	1968	0	3451	0	4934	1	6417	0	7900	0
486	0	1969	0	3452	0	4935	0	6418	1	7901	0
487	0	1970	0	3453	1	4936	0	6419	1	7902	1
488	0	1971	0	3454	0	4937	0	6420	0	7903	0
489	1	1972	0	3455	1	4938	1	6421	1	7904	1
490	1	1973	1	3456	0	4939	1	6422	0	7905	1
491	0	1974	1	3457	0	4940	1	6423	1	7906	0
492	0	1975	0	3458	1	4941	0	6424	0	7907	0
493	1	1976	0	3459	0	4942	1	6425	1	7908	0
494	0	1977	0	3460	1	4943	1	6426	1	7909	1
495	0	1978	0	3461	1	4944	0	6427	1	7910	1
496	1	1979	1	3462	0	4945	1	6428	1	7911	1
497	0	1980	1	3463	1	4946	0	6429	1	7912	0
498	1	1981	0	3464	1	4947	1	6430	0	7913	1
499	0	1982	1	3465	0	4948	1	6431	1	7914	1

500	1	1983	1	3466	1	4949	1	6432	1	7915	1
501	0	1984	0	3467	0	4950	0	6433	0	7916	0
502	1	1985	0	3468	1	4951	0	6434	1	7917	0
503	0	1986	0	3469	0	4952	1	6435	0	7918	0
504	0	1987	0	3470	0	4953	0	6436	1	7919	0
505	1	1988	1	3471	1	4954	0	6437	0	7920	1
506	0	1989	1	3472	0	4955	0	6438	0	7921	0
507	1	1990	1	3473	0	4956	1	6439	1	7922	1
508	0	1991	0	3474	0	4957	1	6440	0	7923	0
509	1	1992	1	3475	0	4958	0	6441	1	7924	1
510	1	1993	1	3476	1	4959	0	6442	1	7925	0
511	0	1994	1	3477	1	4960	0	6443	1	7926	1
512	1	1995	0	3478	0	4961	0	6444	1	7927	0
513	0	1996	1	3479	0	4962	0	6445	0	7928	0
514	0	1997	0	3480	0	4963	0	6446	1	7929	1
515	1	1998	0	3481	0	4964	1	6447	0	7930	1
516	1	1999	1	3482	0	4965	1	6448	1	7931	0
517	0	2000	1	3483	0	4966	1	6449	0	7932	0
518	0	2001	0	3484	1	4967	0	6450	1	7933	0
519	0	2002	1	3485	1	4968	0	6451	0	7934	0
520	0	2003	1	3486	1	4969	0	6452	1	7935	0
521	0	2004	1	3487	0	4970	1	6453	0	7936	0
522	1	2005	0	3488	0	4971	1	6454	0	7937	0
523	0	2006	0	3489	0	4972	1	6455	1	7938	0
524	1	2007	1	3490	0	4973	0	6456	1	7939	0
525	1	2008	1	3491	0	4974	0	6457	1	7940	1
526	1	2009	0	3492	0	4975	1	6458	1	7941	1
527	0	2010	0	3493	0	4976	1	6459	0	7942	0
528	0	2011	0	3494	1	4977	0	6460	0	7943	0
529	1	2012	0	3495	0	4978	1	6461	0	7944	0
530	1	2013	0	3496	1	4979	1	6462	1	7945	1
531	0	2014	0	3497	1	4980	0	6463	1	7946	1
532	0	2015	1	3498	0	4981	1	6464	1	7947	1
533	0	2016	1	3499	0	4982	0	6465	0	7948	0
534	0	2017	1	3500	1	4983	0	6466	1	7949	1
535	1	2018	0	3501	0	4984	0	6467	1	7950	1
536	0	2019	0	3502	1	4985	0	6468	0	7951	0
537	1	2020	1	3503	1	4986	1	6469	1	7952	0
538	1	2021	1	3504	1	4987	0	6470	0	7953	1
539	1	2022	0	3505	1	4988	0	6471	0	7954	0
540	1	2023	1	3506	0	4989	1	6472	0	7955	1
541	0	2024	0	3507	0	4990	0	6473	1	7956	1
542	0	2025	0	3508	1	4991	1	6474	1	7957	1
543	0	2026	1	3509	0	4992	1	6475	1	7958	1

544	0	2027	0	3510	0	4993	1	6476	0	7959	0
545	1	2028	0	3511	1	4994	1	6477	0	7960	0
546	1	2029	0	3512	1	4995	0	6478	0	7961	1
547	1	2030	1	3513	1	4996	1	6479	0	7962	1
548	1	2031	0	3514	0	4997	0	6480	1	7963	1
549	1	2032	0	3515	0	4998	0	6481	1	7964	1
550	0	2033	0	3516	1	4999	1	6482	1	7965	0
551	1	2034	1	3517	1	5000	0	6483	0	7966	0
552	0	2035	0	3518	0	5001	0	6484	0	7967	1
553	0	2036	0	3519	1	5002	0	6485	1	7968	1
554	1	2037	1	3520	0	5003	1	6486	1	7969	1
555	0	2038	0	3521	0	5004	1	6487	0	7970	1
556	0	2039	1	3522	1	5005	1	6488	1	7971	0
557	0	2040	1	3523	1	5006	0	6489	1	7972	1
558	0	2041	0	3524	1	5007	0	6490	0	7973	0
559	1	2042	1	3525	1	5008	0	6491	1	7974	1
560	0	2043	0	3526	0	5009	0	6492	1	7975	0
561	1	2044	1	3527	0	5010	0	6493	0	7976	1
562	0	2045	1	3528	0	5011	1	6494	1	7977	1
563	1	2046	1	3529	1	5012	0	6495	1	7978	1
564	0	2047	0	3530	1	5013	0	6496	1	7979	0
565	1	2048	1	3531	1	5014	1	6497	0	7980	0
566	0	2049	1	3532	0	5015	0	6498	1	7981	0
567	1	2050	1	3533	0	5016	0	6499	0	7982	1
568	0	2051	0	3534	0	5017	0	6500	0	7983	0
569	0	2052	1	3535	1	5018	0	6501	1	7984	0
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571	0	2054	1	3537	1	5020	1	6503	1	7986	0
572	0	2055	1	3538	1	5021	0	6504	0	7987	0
573	1	2056	1	3539	1	5022	1	6505	0	7988	1
574	0	2057	0	3540	1	5023	0	6506	0	7989	0
575	0	2058	0	3541	1	5024	1	6507	1	7990	1
576	0	2059	0	3542	0	5025	1	6508	0	7991	0
577	1	2060	0	3543	0	5026	0	6509	0	7992	1
578	0	2061	0	3544	1	5027	1	6510	0	7993	1
579	0	2062	0	3545	0	5028	1	6511	0	7994	1
580	1	2063	1	3546	1	5029	0	6512	1	7995	0
581	1	2064	0	3547	1	5030	1	6513	0	7996	0
582	0	2065	0	3548	1	5031	0	6514	1	7997	1
583	1	2066	1	3549	0	5032	0	6515	1	7998	1
584	0	2067	1	3550	0	5033	0	6516	1	7999	0
585	0	2068	1	3551	0	5034	1	6517	0	8000	1
586	1	2069	0	3552	0	5035	1	6518	1	8001	0
587	1	2070	1	3553	0	5036	0	6519	0	8002	1

588	1	2071	1	3554	0	5037	0	6520	1	8003	1
589	0	2072	0	3555	1	5038	0	6521	1	8004	1
590	0	2073	1	3556	1	5039	1	6522	0	8005	0
591	0	2074	1	3557	0	5040	0	6523	0	8006	1
592	1	2075	1	3558	1	5041	1	6524	0	8007	0
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594	1	2077	0	3560	0	5043	1	6526	1	8009	1
595	0	2078	1	3561	0	5044	1	6527	0	8010	1
596	1	2079	0	3562	1	5045	1	6528	1	8011	0
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599	0	2082	0	3565	0	5048	1	6531	0	8014	0
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601	1	2084	0	3567	1	5050	0	6533	1	8016	0
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604	1	2087	1	3570	0	5053	1	6536	0	8019	0
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607	1	2090	1	3573	0	5056	1	6539	0	8022	0
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610	1	2093	0	3576	0	5059	0	6542	0	8025	1
611	1	2094	1	3577	0	5060	1	6543	0	8026	0
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616	1	2099	1	3582	1	5065	1	6548	1	8031	0
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618	1	2101	0	3584	1	5067	0	6550	1	8033	1
619	1	2102	1	3585	1	5068	1	6551	1	8034	0
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621	1	2104	1	3587	0	5070	0	6553	0	8036	1
622	1	2105	1	3588	1	5071	1	6554	1	8037	0
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624	1	2107	1	3590	0	5073	1	6556	1	8039	0
625	0	2108	0	3591	1	5074	0	6557	1	8040	1
626	1	2109	1	3592	0	5075	1	6558	1	8041	0
627	1	2110	0	3593	1	5076	1	6559	1	8042	0
628	0	2111	0	3594	0	5077	1	6560	0	8043	0
629	1	2112	0	3595	1	5078	0	6561	0	8044	0
630	0	2113	1	3596	0	5079	0	6562	1	8045	0
631	1	2114	0	3597	0	5080	0	6563	1	8046	0

632	0	2115	1	3598	1	5081	1	6564	1	8047	0
633	1	2116	1	3599	1	5082	1	6565	1	8048	0
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636	1	2119	0	3602	0	5085	1	6568	1	8051	1
637	0	2120	0	3603	0	5086	0	6569	0	8052	1
638	0	2121	1	3604	0	5087	0	6570	0	8053	0
639	1	2122	1	3605	1	5088	0	6571	0	8054	1
640	1	2123	0	3606	0	5089	1	6572	0	8055	1
641	1	2124	0	3607	0	5090	0	6573	0	8056	1
642	0	2125	0	3608	0	5091	1	6574	0	8057	0
643	1	2126	1	3609	0	5092	0	6575	0	8058	0
644	1	2127	1	3610	1	5093	1	6576	0	8059	1
645	0	2128	0	3611	1	5094	0	6577	1	8060	0
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647	1	2130	1	3613	0	5096	1	6579	0	8062	0
648	0	2131	1	3614	1	5097	0	6580	0	8063	0
649	1	2132	0	3615	0	5098	1	6581	0	8064	1
650	1	2133	1	3616	1	5099	1	6582	1	8065	1
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652	1	2135	0	3618	1	5101	1	6584	1	8067	1
653	0	2136	0	3619	1	5102	1	6585	0	8068	0
654	1	2137	0	3620	0	5103	0	6586	1	8069	0
655	0	2138	0	3621	0	5104	1	6587	0	8070	0
656	1	2139	1	3622	0	5105	1	6588	0	8071	0
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658	0	2141	0	3624	0	5107	1	6590	1	8073	1
659	1	2142	0	3625	0	5108	0	6591	0	8074	0
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663	1	2146	1	3629	1	5112	0	6595	0	8078	1
664	0	2147	1	3630	1	5113	0	6596	0	8079	0
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666	1	2149	0	3632	1	5115	1	6598	0	8081	1
667	0	2150	0	3633	0	5116	1	6599	0	8082	1
668	0	2151	1	3634	1	5117	1	6600	1	8083	0
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670	1	2153	1	3636	1	5119	0	6602	0	8085	0
671	1	2154	1	3637	0	5120	0	6603	0	8086	1
672	0	2155	1	3638	1	5121	0	6604	0	8087	0
673	0	2156	0	3639	0	5122	1	6605	1	8088	1
674	0	2157	0	3640	1	5123	0	6606	0	8089	0
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676	1	2159	1	3642	1	5125	0	6608	0	8091	1
677	1	2160	0	3643	1	5126	0	6609	0	8092	1
678	0	2161	0	3644	1	5127	1	6610	0	8093	1
679	1	2162	1	3645	1	5128	1	6611	1	8094	0
680	1	2163	0	3646	0	5129	1	6612	1	8095	0
681	1	2164	1	3647	1	5130	0	6613	1	8096	0
682	0	2165	1	3648	1	5131	1	6614	0	8097	1
683	1	2166	0	3649	0	5132	1	6615	1	8098	1
684	1	2167	0	3650	0	5133	0	6616	0	8099	1
685	0	2168	1	3651	0	5134	0	6617	0	8100	1
686	1	2169	0	3652	1	5135	1	6618	0	8101	0
687	0	2170	0	3653	0	5136	1	6619	1	8102	0
688	0	2171	1	3654	1	5137	1	6620	0	8103	0
689	0	2172	0	3655	0	5138	0	6621	1	8104	1
690	1	2173	1	3656	0	5139	0	6622	1	8105	0
691	0	2174	1	3657	1	5140	0	6623	0	8106	0
692	1	2175	0	3658	0	5141	0	6624	0	8107	0
693	0	2176	1	3659	1	5142	0	6625	1	8108	1
694	1	2177	1	3660	0	5143	0	6626	0	8109	1
695	0	2178	0	3661	0	5144	1	6627	0	8110	0
696	1	2179	0	3662	0	5145	1	6628	1	8111	1
697	0	2180	1	3663	1	5146	1	6629	0	8112	0
698	0	2181	1	3664	0	5147	1	6630	1	8113	0
699	1	2182	1	3665	0	5148	1	6631	1	8114	1
700	1	2183	0	3666	1	5149	0	6632	1	8115	0
701	1	2184	0	3667	1	5150	0	6633	0	8116	1
702	0	2185	1	3668	0	5151	1	6634	0	8117	0
703	0	2186	0	3669	1	5152	0	6635	0	8118	0
704	0	2187	1	3670	1	5153	0	6636	1	8119	1
705	0	2188	1	3671	0	5154	1	6637	1	8120	0
706	0	2189	1	3672	0	5155	1	6638	0	8121	1
707	1	2190	0	3673	0	5156	1	6639	1	8122	1
708	1	2191	0	3674	0	5157	1	6640	0	8123	1
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710	0	2193	0	3676	1	5159	1	6642	0	8125	1
711	0	2194	1	3677	0	5160	1	6643	1	8126	0
712	0	2195	1	3678	1	5161	0	6644	1	8127	1
713	1	2196	1	3679	1	5162	0	6645	1	8128	0
714	0	2197	0	3680	0	5163	0	6646	0	8129	1
715	0	2198	0	3681	1	5164	1	6647	0	8130	1
716	1	2199	0	3682	0	5165	1	6648	0	8131	1
717	1	2200	1	3683	1	5166	0	6649	0	8132	0
718	0	2201	0	3684	0	5167	0	6650	0	8133	1
719	0	2202	0	3685	1	5168	0	6651	0	8134	1

720	0	2203	0	3686	0	5169	1	6652	1	8135	1
721	1	2204	0	3687	0	5170	0	6653	0	8136	0
722	0	2205	0	3688	0	5171	1	6654	1	8137	0
723	1	2206	1	3689	1	5172	1	6655	1	8138	1
724	0	2207	0	3690	0	5173	0	6656	1	8139	0
725	1	2208	0	3691	1	5174	1	6657	0	8140	0
726	0	2209	1	3692	1	5175	0	6658	1	8141	0
727	0	2210	0	3693	1	5176	1	6659	0	8142	1
728	0	2211	1	3694	1	5177	1	6660	0	8143	1
729	0	2212	1	3695	1	5178	1	6661	0	8144	0
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731	0	2214	0	3697	0	5180	1	6663	0	8146	1
732	1	2215	0	3698	1	5181	1	6664	1	8147	0
733	0	2216	1	3699	1	5182	1	6665	1	8148	0
734	0	2217	0	3700	0	5183	0	6666	0	8149	0
735	1	2218	1	3701	0	5184	1	6667	1	8150	1
736	1	2219	1	3702	0	5185	0	6668	1	8151	1
737	1	2220	0	3703	0	5186	1	6669	0	8152	0
738	1	2221	1	3704	1	5187	1	6670	0	8153	0
739	0	2222	0	3705	0	5188	0	6671	1	8154	1
740	1	2223	1	3706	0	5189	1	6672	0	8155	0
741	1	2224	0	3707	1	5190	1	6673	1	8156	1
742	1	2225	1	3708	0	5191	0	6674	1	8157	1
743	1	2226	0	3709	1	5192	1	6675	0	8158	1
744	0	2227	0	3710	0	5193	1	6676	1	8159	1
745	0	2228	0	3711	0	5194	1	6677	0	8160	1
746	0	2229	0	3712	1	5195	0	6678	1	8161	0
747	0	2230	0	3713	1	5196	1	6679	1	8162	1
748	0	2231	1	3714	0	5197	0	6680	0	8163	1
749	1	2232	1	3715	0	5198	0	6681	0	8164	1
750	1	2233	0	3716	1	5199	1	6682	1	8165	0
751	0	2234	0	3717	1	5200	0	6683	0	8166	1
752	0	2235	0	3718	0	5201	0	6684	1	8167	0
753	1	2236	1	3719	1	5202	1	6685	0	8168	1
754	0	2237	0	3720	0	5203	1	6686	1	8169	1
755	0	2238	0	3721	1	5204	1	6687	0	8170	0
756	1	2239	0	3722	0	5205	1	6688	0	8171	0
757	0	2240	1	3723	0	5206	0	6689	0	8172	1
758	0	2241	0	3724	0	5207	1	6690	0	8173	0
759	1	2242	1	3725	1	5208	0	6691	1	8174	1
760	0	2243	1	3726	0	5209	0	6692	0	8175	1
761	0	2244	0	3727	0	5210	1	6693	0	8176	0
762	0	2245	1	3728	1	5211	0	6694	0	8177	1
763	1	2246	1	3729	1	5212	1	6695	0	8178	1

764	1	2247	1	3730	0	5213	0	6696	1	8179	0
765	0	2248	0	3731	0	5214	1	6697	0	8180	1
766	1	2249	1	3732	1	5215	0	6698	1	8181	1
767	0	2250	1	3733	1	5216	0	6699	0	8182	1
768	1	2251	0	3734	0	5217	0	6700	1	8183	0
769	1	2252	0	3735	1	5218	0	6701	0	8184	0
770	0	2253	0	3736	1	5219	0	6702	0	8185	0
771	0	2254	1	3737	1	5220	0	6703	1	8186	0
772	1	2255	0	3738	0	5221	0	6704	0	8187	1
773	0	2256	1	3739	0	5222	0	6705	0	8188	1
774	0	2257	0	3740	0	5223	1	6706	1	8189	1
775	1	2258	1	3741	0	5224	0	6707	0	8190	1
776	0	2259	1	3742	0	5225	1	6708	1	8191	1
777	0	2260	0	3743	1	5226	0	6709	1	8192	0
778	0	2261	0	3744	1	5227	1	6710	1	8193	1
779	0	2262	1	3745	1	5228	0	6711	1	8194	0
780	0	2263	1	3746	0	5229	1	6712	0	8195	0
781	0	2264	0	3747	0	5230	0	6713	0	8196	0
782	0	2265	0	3748	0	5231	0	6714	1	8197	1
783	0	2266	1	3749	1	5232	0	6715	1	8198	0
784	0	2267	1	3750	0	5233	1	6716	1	8199	0
785	1	2268	1	3751	1	5234	0	6717	0	8200	0
786	1	2269	1	3752	0	5235	1	6718	1	8201	1
787	1	2270	0	3753	0	5236	1	6719	1	8202	1
788	1	2271	1	3754	1	5237	0	6720	0	8203	1
789	1	2272	0	3755	1	5238	0	6721	1	8204	1
790	1	2273	0	3756	0	5239	0	6722	0	8205	0
791	0	2274	0	3757	0	5240	0	6723	1	8206	0
792	0	2275	0	3758	0	5241	1	6724	1	8207	1
793	0	2276	0	3759	1	5242	0	6725	0	8208	0
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795	0	2278	0	3761	0	5244	1	6727	0	8210	0
796	0	2279	1	3762	0	5245	1	6728	0	8211	0
797	0	2280	0	3763	0	5246	0	6729	0	8212	1
798	0	2281	0	3764	0	5247	0	6730	1	8213	1
799	0	2282	1	3765	1	5248	1	6731	0	8214	0
800	1	2283	0	3766	1	5249	0	6732	1	8215	1
801	1	2284	1	3767	1	5250	1	6733	0	8216	1
802	0	2285	1	3768	0	5251	0	6734	0	8217	0
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804	0	2287	1	3770	1	5253	0	6736	0	8219	1
805	0	2288	1	3771	0	5254	0	6737	1	8220	1
806	0	2289	1	3772	0	5255	0	6738	0	8221	1
807	1	2290	0	3773	1	5256	1	6739	1	8222	1

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809	1	2292	0	3775	1	5258	0	6741	0	8224	1
810	1	2293	1	3776	1	5259	0	6742	1	8225	0
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814	0	2297	1	3780	0	5263	1	6746	1	8229	0
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816	1	2299	1	3782	1	5265	1	6748	1	8231	0
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818	1	2301	0	3784	0	5267	1	6750	1	8233	1
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821	1	2304	0	3787	0	5270	0	6753	1	8236	0
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825	0	2308	0	3791	1	5274	1	6757	1	8240	1
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828	0	2311	1	3794	1	5277	0	6760	1	8243	0
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830	1	2313	0	3796	1	5279	1	6762	0	8245	0
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832	1	2315	0	3798	0	5281	1	6764	0	8247	0
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835	0	2318	0	3801	0	5284	1	6767	1	8250	1
836	0	2319	0	3802	1	5285	0	6768	0	8251	1
837	1	2320	0	3803	1	5286	0	6769	0	8252	0
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839	0	2322	0	3805	0	5288	0	6771	0	8254	1
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846	1	2329	1	3812	1	5295	0	6778	0	8261	1
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850	0	2333	0	3816	0	5299	0	6782	0	8265	1
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853	0	2336	1	3819	1	5302	1	6785	0	8268	1
854	0	2337	0	3820	0	5303	1	6786	1	8269	1
855	1	2338	1	3821	1	5304	1	6787	0	8270	1
856	0	2339	1	3822	1	5305	1	6788	0	8271	0
857	1	2340	0	3823	0	5306	0	6789	1	8272	1
858	0	2341	1	3824	1	5307	0	6790	0	8273	1
859	1	2342	0	3825	1	5308	1	6791	0	8274	0
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892	0	2375	0	3858	1	5341	1	6824	0	8307	0
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906	1	2389	0	3872	0	5355	0	6838	0	8321	1
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913	0	2396	1	3879	0	5362	1	6845	1	8328	0
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919	0	2402	0	3885	1	5368	0	6851	0	8334	1
920	0	2403	1	3886	0	5369	0	6852	0	8335	0
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948	1	2431	1	3914	1	5397	0	6880	1	8363	0
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1314	0	2797	1	4280	1	5763	1	7246	0	8729	0
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1320	0	2803	1	4286	0	5769	1	7252	1	8735	0
1321	0	2804	0	4287	1	5770	0	7253	0	8736	0
1322	0	2805	0	4288	1	5771	0	7254	1	8737	1
1323	1	2806	1	4289	0	5772	1	7255	0	8738	1
1324	0	2807	0	4290	1	5773	1	7256	1	8739	1
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1326	1	2809	1	4292	1	5775	1	7258	1	8741	1
1327	0	2810	1	4293	1	5776	1	7259	0	8742	0
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1329	0	2812	0	4295	1	5778	1	7261	0	8744	0
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1337	0	2820	0	4303	1	5786	1	7269	0	8752	0
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