

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$\begin{aligned} p_0(z) &= z^{21} + z^{19} + z^{14} + z^{13} + z^9 + z^8 + z^7 + z^6 + z^5 + z^4 + z^3 + z^2 + 1, \\ p_1(z) &= z^{25} + z^{20} + z^{19} + z^{18} + z^{17} + z^{15} + z^{12} + z^9 + z^8 + z^7 + z^6 + z^4 + z^3 \\ &\quad + z^2, \\ p_2(z) &= z^{28} + z^{22} + z^{20} + z^{14} + z^6 + z^4, \\ p_3(z) &= z^{25} + z^{20} + z^{19} + z^{18} + z^{17} + z^{15} + z^{12} + z^9 + z^8 + z^7 + z^6 + z^4 + z^3 \\ &\quad + z^2, \\ p_4(z) &= z^{22} + z^{21} + z^{19} + z^{16} + z^{13} + z^{12} + z^9 + z^8 + z^7 + z^5 + z^3 + z^2, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{21} + z^{19} + z^{16} + z^{14} + z^{13} + z^9 + z^7 + z^6 + z^5 + z^4 + z^3 + z^2, \\ p_1(z) &= z^{25} + z^{20} + z^{19} + z^{18} + z^{17} + z^{15} + z^{12} + z^9 + z^8 + z^7 + z^6 + z^4 + z^3 \\ &\quad + z^2, \\ p_2(z) &= z^{28} + z^{22} + z^{20} + z^{14} + z^6 + z^4, \\ p_3(z) &= z^{25} + z^{20} + z^{19} + z^{18} + z^{17} + z^{15} + z^{12} + z^9 + z^8 + z^7 + z^6 + z^4 + z^3 \\ &\quad + z^2, \\ p_4(z) &= z^{22} + z^{21} + z^{19} + z^{13} + z^{12} + z^9 + z^7 + z^5 + z^3 + z^2 + 1. \end{aligned}$$

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.*

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

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

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

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

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

$$\begin{aligned}
(2.7) \quad & 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[111w]_2], \\
& 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[110w]_2] \\
(2.8) \quad & + T[[1000w]_2], \\
(2.9) \quad & 0 = T[[10w]_2] + T[[100w]_2] + T[[1001w]_2], \\
(2.10) \quad & 0 = T[[11w]_2] + T[[101w]_2] + T[[1010w]_2], \\
(2.11) \quad & 0 = T[[w]_2] + T[[100w]_2] + T[[110w]_2] + T[[1011w]_2], \\
(2.12) \quad & 0 = T[[10w]_2] + T[[11w]_2] + T[[1100w]_2], \\
(2.13) \quad & 0 = T[[11w]_2] + T[[100w]_2] + T[[1101w]_2],
\end{aligned}$$

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

$$\begin{aligned}
(2.14) \quad & 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[111w]_2], \\
& 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[110w]_2] \\
(2.15) \quad & + T[[1000w]_2], \\
(2.16) \quad & 0 = T[[10w]_2] + T[[100w]_2] + T[[1001w]_2], \\
(2.17) \quad & 0 = T[[11w]_2] + T[[101w]_2] + T[[1010w]_2], \\
(2.18) \quad & 0 = T[[w]_2] + T[[100w]_2] + T[[110w]_2] + T[[1011w]_2], \\
(2.19) \quad & 0 = T[[10w]_2] + T[[11w]_2] + T[[1100w]_2], \\
(2.20) \quad & 0 = T[[11w]_2] + T[[100w]_2] + T[[1101w]_2],
\end{aligned}$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 9300 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

$$\begin{aligned}
(2.21) \quad & 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\
& + \tau(A(s, 111)), \\
& 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\
(2.22) \quad & + \tau(A(s, 110)) + \tau(A(s, 1000)), \\
(2.23) \quad & 0 = \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 1001)), \\
(2.24) \quad & 0 = \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1010)), \\
(2.25) \quad & 0 = \tau(A(s, \epsilon)) + \tau(A(s, 100)) + \tau(A(s, 110)) + \tau(A(s, 1011)), \\
(2.26) \quad & 0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1100)), \\
(2.27) \quad & 0 = \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1101)),
\end{aligned}$$

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

$$\begin{aligned}
(2.28) \quad & 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\
& + \tau(A(s, 111)),
\end{aligned}$$

$$(2.29) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ + \tau(A(s, 110)) + \tau(A(s, 1000)),$$

$$(2.30) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 1001)),$$

$$(2.31) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.32) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 100)) + \tau(A(s, 110)) + \tau(A(s, 1011)),$$

$$(2.33) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1100)),$$

$$(2.34) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1101)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{46}), E_{46}) = (A(i, 0^{22}), E_{22})$, so that we only have to verify that identities (2.21) through (2.34) hold for $2 \leq k \leq 23$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

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

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

We give the proof of

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

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

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

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

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

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

$$\begin{aligned} q_0(x) &= x^{28} + x^{26} + x^{25} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{15} + x^{14} + x^9 \\ &\quad + x^7, \\ q_1(x) &= x^{26} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{13} + x^{11} + x^{10} + x^9 \\ &\quad + x^8 + x^3, \\ q_2(x) &= x^{24} + x^{22} + x^{14} + x^8 + x^6 + 1, \\ q_3(x) &= x^{26} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{19} + x^{16} + x^{13} + x^{11} + x^{10} + x^9 \\ &\quad + x^8 + x^3, \end{aligned}$$

$$q_4(x) = x^{26} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{16} + x^{15} + x^{12} + x^9 + x^7 + x^6.$$

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

$$\begin{aligned} p_0(x) &= x^{150} + x^{144} + x^{142} + x^{134} + x^{132} + x^{128} + x^{126} + x^{118} + x^{112} + x^{108} \\ &\quad + x^{106} + x^{100} + x^{84} + x^{82} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{64} \\ &\quad + x^{62} + x^{60} + x^{52} + x^{48} + x^{46} + x^{44} + x^{42} + x^{36}, \\ p_3(x) &= x^{140} + x^{138} + x^{134} + x^{132} + x^{130} + x^{124} + x^{118} + x^{114} + x^{112} + x^{98} \\ &\quad + x^{92} + x^{88} + x^{86} + x^{82} + x^{80} + x^{78} + x^{72} + x^{62} + x^{60} + x^{56} + x^{54} \\ &\quad + x^{50} + x^{46} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{30} + x^{28} + x^{22} + x^{20}, \\ p_6(x) &= x^{142} + x^{140} + x^{136} + x^{134} + x^{130} + x^{122} + x^{120} + x^{118} + x^{114} + x^{112} \\ &\quad + x^{106} + x^{104} + x^{102} + x^{100} + x^{88} + x^{82} + x^{80} + x^{78} + x^{74} + x^{70} \\ &\quad + x^{68} + x^{66} + x^{64} + x^{60} + x^{54} + x^{52} + x^{50} + x^{48} + x^{42} + x^{40} + x^{32} \\ &\quad + x^{30} + x^{26} + x^{16} + x^{14} + x^{12} + x^{10} + x^6 + x^2 + 1, \\ p_9(x) &= x^{146} + x^{144} + x^{142} + x^{138} + x^{132} + x^{126} + x^{118} + x^{106} + x^{100} + x^{92} \\ &\quad + x^{88} + x^{84} + x^{82} + x^{76} + x^{74} + x^{72} + x^{70} + x^{62} + x^{56} + x^{50} + x^{40} \\ &\quad + x^{38} + x^{32} + x^{28} + x^{20} + x^{12} + x^8 + x^6, \\ p_{12}(x) &= x^{146} + x^{144} + x^{122} + x^{120} + x^{114} + x^{112} + x^{98} + x^{96} + x^{82} + x^{80} \\ &\quad + x^{74} + x^{72} + x^{58} + x^{56} + x^{50} + x^{48} + x^{42} + x^{40} + x^{10} + x^8 + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{147} + x^{145} + x^{144} + x^{142} + x^{139} + x^{138} + x^{136} + x^{135} + x^{132} + x^{130} \\ &\quad + x^{129} + x^{127} + x^{126} + x^{123} + x^{122} + x^{119} + x^{117} + x^{116} + x^{114} \\ &\quad + x^{112} + x^{110} + x^{107} + x^{102} + x^{99} + x^{96} + x^{95} + x^{93} + x^{91} + x^{89} \\ &\quad + x^{87} + x^{85} + x^{84} + x^{79} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} \\ &\quad + x^{63} + x^{60} + x^{57} + x^{53} + x^{51} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} \end{aligned}$$

$$\begin{aligned}
& + x^{40} + x^{39}, \\
p_3(x) &= x^{143} + x^{137} + x^{133} + x^{131} + x^{129} + x^{111} + x^{109} + x^{107} + x^{101} + x^{99} \\
& + x^{97} + x^{93} + x^{91} + x^{89} + x^{87} + x^{85} + x^{83} + x^{77} + x^{75} + x^{73} + x^{61} \\
& + x^{59} + x^{57} + x^{53} + x^{51} + x^{49} + x^{45} + x^{43} + x^{41} + x^{39} + x^{33} + x^{31} \\
& + x^{29} + x^{27}, \\
p_6(x) &= x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{132} + x^{127} + x^{126} + x^{124} + x^{122} \\
& + x^{121} + x^{120} + x^{119} + x^{115} + x^{113} + x^{108} + x^{107} + x^{106} + x^{105} \\
& + x^{100} + x^{99} + x^{98} + x^{97} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{83} \\
& + x^{82} + x^{79} + x^{77} + x^{73} + x^{70} + x^{69} + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{54} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} \\
& + x^{26} + x^{23} + x^{22} + x^{20} + x^{18}, \\
p_9(x) &= x^{139} + x^{137} + x^{135} + x^{133} + x^{129} + x^{127} + x^{125} + x^{119} + x^{115} + x^{113} \\
& + x^{109} + x^{107} + x^{105} + x^{101} + x^{95} + x^{91} + x^{87} + x^{83} + x^{81} + x^{79} \\
& + x^{77} + x^{71} + x^{69} + x^{67} + x^{65} + x^{63} + x^{55} + x^{49} + x^{47} + x^{43} + x^{39} \\
& + x^{35} + x^{31} + x^{27} + x^{21} + x^{19} + x^{15} + x^{13} + x^{11} + x^9, \\
p_{12}(x) &= x^{137} + x^{136} + x^{134} + x^{133} + x^{130} + x^{128} + x^{125} + x^{124} + x^{122} + x^{120} \\
& + x^{117} + x^{116} + x^{114} + x^{112} + x^{89} + x^{88} + x^{86} + x^{85} + x^{82} + x^{80} \\
& + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{68} + x^{61} + x^{60} + x^{58} + x^{57} + x^{54} \\
& + x^{52} + x^{45} + x^{44} + x^{42} + x^{40} + x^{37} + x^{36} + x^{34} + x^{32} + x^{25} + x^{24} \\
& + x^{22} + x^{21} + x^{18} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{145} + x^{144} + x^{142} + x^{139} + x^{138} + x^{136} + x^{135} + x^{132} + x^{130} \\
& + x^{129} + x^{127} + x^{126} + x^{123} + x^{122} + x^{119} + x^{117} + x^{116} + x^{114} \\
& + x^{112} + x^{110} + x^{107} + x^{102} + x^{99} + x^{96} + x^{95} + x^{93} + x^{91} + x^{89} \\
& + x^{87} + x^{85} + x^{84} + x^{79} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} \\
& + x^{63} + x^{60} + x^{57} + x^{53} + x^{51} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39}, \\
p_3(x) &= x^{143} + x^{137} + x^{133} + x^{131} + x^{129} + x^{111} + x^{109} + x^{107} + x^{101} + x^{99} \\
& + x^{97} + x^{93} + x^{91} + x^{89} + x^{87} + x^{85} + x^{83} + x^{77} + x^{75} + x^{73} + x^{61} \\
& + x^{59} + x^{57} + x^{53} + x^{51} + x^{49} + x^{45} + x^{43} + x^{41} + x^{39} + x^{33} + x^{31} \\
& + x^{29} + x^{27}, \\
p_6(x) &= x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{132} + x^{127} + x^{126} + x^{124} + x^{122} \\
& + x^{121} + x^{120} + x^{119} + x^{115} + x^{113} + x^{108} + x^{107} + x^{106} + x^{105}
\end{aligned}$$

$$\begin{aligned}
& + x^{100} + x^{99} + x^{98} + x^{97} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{83} \\
& + x^{82} + x^{79} + x^{77} + x^{73} + x^{70} + x^{69} + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{54} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} \\
& + x^{26} + x^{23} + x^{22} + x^{20} + x^{18}, \\
p_9(x) = & x^{139} + x^{137} + x^{135} + x^{133} + x^{129} + x^{127} + x^{125} + x^{119} + x^{115} + x^{113} \\
& + x^{109} + x^{107} + x^{105} + x^{101} + x^{95} + x^{91} + x^{87} + x^{83} + x^{81} + x^{79} \\
& + x^{77} + x^{71} + x^{69} + x^{67} + x^{65} + x^{63} + x^{55} + x^{49} + x^{47} + x^{43} + x^{39} \\
& + x^{35} + x^{31} + x^{27} + x^{21} + x^{19} + x^{15} + x^{13} + x^{11} + x^9, \\
p_{12}(x) = & x^{137} + x^{136} + x^{134} + x^{133} + x^{130} + x^{128} + x^{125} + x^{124} + x^{122} + x^{120} \\
& + x^{117} + x^{116} + x^{114} + x^{112} + x^{89} + x^{88} + x^{86} + x^{85} + x^{82} + x^{80} \\
& + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{68} + x^{61} + x^{60} + x^{58} + x^{57} + x^{54} \\
& + x^{52} + x^{45} + x^{44} + x^{42} + x^{40} + x^{37} + x^{36} + x^{34} + x^{32} + x^{25} + x^{24} \\
& + x^{22} + x^{21} + x^{18} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{144} + x^{140} + x^{136} + x^{132} + x^{130} + x^{128} + x^{126} + x^{124} + x^{122} + x^{120} \\
& + x^{112} + x^{104} + x^{92} + x^{90} + x^{88} + x^{78} + x^{72} + x^{70} + x^{64} + x^{60} + x^{56} \\
& + x^{54} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42}, \\
p_3(x) = & x^{132} + x^{130} + x^{124} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{96} + x^{94} \\
& + x^{90} + x^{84} + x^{78} + x^{74} + x^{72} + x^{70} + x^{66} + x^{64} + x^{62} + x^{60} + x^{58} \\
& + x^{56} + x^{50} + x^{46} + x^{44} + x^{40} + x^{34} + x^{30} + x^{22} + x^{18}, \\
p_6(x) = & x^{132} + x^{130} + x^{128} + x^{120} + x^{116} + x^{108} + x^{102} + x^{100} + x^{92} + x^{88} \\
& + x^{84} + x^{78} + x^{74} + x^{72} + x^{68} + x^{52} + x^{50} + x^{48} + x^{42} + x^{36} + x^{34} \\
& + x^{26} + x^{22} + x^{18} + x^{14} + x^{10} + x^8 + x^6 + x^2 + 1, \\
p_9(x) = & x^{128} + x^{124} + x^{118} + x^{116} + x^{108} + x^{100} + x^{98} + x^{88} + x^{86} + x^{84} \\
& + x^{82} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} \\
& + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} \\
& + x^{24} + x^{22} + x^{14} + x^{12} + x^8 + x^6, \\
p_{12}(x) = & x^{128} + x^{122} + x^{114} + x^{112} + x^{80} + x^{74} + x^{66} + x^{58} + x^{50} + x^{42} + x^{34} \\
& + x^{32} + x^{16} + x^{10} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{144} + x^{140} + x^{128} + x^{124} + x^{122} + x^{120} + x^{116} + x^{112} + x^{104} + x^{100} \\
& + x^{96} + x^{78} + x^{74} + x^{70} + x^{68} + x^{64} + x^{62} + x^{60} + x^{56} + x^{54} + x^{52}
\end{aligned}$$

$$\begin{aligned}
& + x^{50} + x^{48} + x^{42} + x^{36}, \\
p_3(x) &= x^{132} + x^{130} + x^{122} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{108} + x^{106} \\
& + x^{102} + x^{98} + x^{96} + x^{94} + x^{92} + x^{88} + x^{86} + x^{84} + x^{78} + x^{74} + x^{72} \\
& + x^{70} + x^{66} + x^{60} + x^{58} + x^{54} + x^{50} + x^{48} + x^{42} + x^{38} + x^{34} + x^{32} \\
& + x^{22} + x^{20}, \\
p_6(x) &= x^{132} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{108} + x^{98} \\
& + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{82} + x^{76} + x^{72} + x^{66} + x^{60} + x^{54} \\
& + x^{52} + x^{48} + x^{46} + x^{30} + x^{28} + x^{26} + x^{20} + x^{12} + x^{10} + x^8 + x^6 + x^2 \\
& + 1, \\
p_9(x) &= x^{128} + x^{124} + x^{118} + x^{116} + x^{108} + x^{100} + x^{98} + x^{88} + x^{86} + x^{84} \\
& + x^{82} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} \\
& + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} + x^{44} + x^{38} + x^{36} + x^{32} + x^{28} + x^{26} \\
& + x^{24} + x^{22} + x^{14} + x^{12} + x^8 + x^6, \\
p_{12}(x) &= x^{128} + x^{122} + x^{114} + x^{112} + x^{80} + x^{74} + x^{66} + x^{58} + x^{50} + x^{42} + x^{34} \\
& + x^{32} + x^{16} + x^{10} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{143} + x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{135} + x^{130} + x^{129} \\
& + x^{128} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} \\
& + x^{110} + x^{108} + x^{103} + x^{102} + x^{100} + x^{98} + x^{97} + x^{96} + x^{94} + x^{93} \\
& + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} + x^{82} + x^{78} + x^{76} + x^{75} + x^{69} + x^{67} \\
& + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{52} + x^{50} \\
& + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{39}, \\
p_3(x) &= x^{143} + x^{137} + x^{133} + x^{131} + x^{129} + x^{111} + x^{109} + x^{107} + x^{101} + x^{99} \\
& + x^{97} + x^{93} + x^{91} + x^{89} + x^{87} + x^{85} + x^{83} + x^{77} + x^{75} + x^{73} + x^{61} \\
& + x^{59} + x^{57} + x^{53} + x^{51} + x^{49} + x^{45} + x^{43} + x^{41} + x^{39} + x^{33} + x^{31} \\
& + x^{29} + x^{27}, \\
p_6(x) &= x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{132} + x^{127} + x^{126} + x^{124} + x^{122} \\
& + x^{121} + x^{120} + x^{119} + x^{115} + x^{113} + x^{108} + x^{107} + x^{106} + x^{105} \\
& + x^{100} + x^{99} + x^{98} + x^{97} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{83} \\
& + x^{82} + x^{79} + x^{77} + x^{73} + x^{70} + x^{69} + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{54} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} \\
& + x^{26} + x^{23} + x^{22} + x^{20} + x^{18}, \\
p_9(x) &= x^{139} + x^{137} + x^{135} + x^{133} + x^{129} + x^{127} + x^{125} + x^{119} + x^{115} + x^{113}
\end{aligned}$$

$$\begin{aligned}
& + x^{109} + x^{107} + x^{105} + x^{101} + x^{95} + x^{91} + x^{87} + x^{83} + x^{81} + x^{79} \\
& + x^{77} + x^{71} + x^{69} + x^{67} + x^{65} + x^{63} + x^{55} + x^{49} + x^{47} + x^{43} + x^{39} \\
& + x^{35} + x^{31} + x^{27} + x^{21} + x^{19} + x^{15} + x^{13} + x^{11} + x^9, \\
p_{12}(x) = & x^{137} + x^{136} + x^{134} + x^{133} + x^{130} + x^{128} + x^{125} + x^{124} + x^{122} + x^{120} \\
& + x^{117} + x^{116} + x^{114} + x^{112} + x^{89} + x^{88} + x^{86} + x^{85} + x^{82} + x^{80} \\
& + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{68} + x^{61} + x^{60} + x^{58} + x^{57} + x^{54} \\
& + x^{52} + x^{45} + x^{44} + x^{42} + x^{40} + x^{37} + x^{36} + x^{34} + x^{32} + x^{25} + x^{24} \\
& + x^{22} + x^{21} + x^{18} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{143} + x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{135} + x^{130} + x^{129} \\
& + x^{128} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} \\
& + x^{110} + x^{108} + x^{103} + x^{102} + x^{100} + x^{98} + x^{97} + x^{96} + x^{94} + x^{93} \\
& + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} + x^{82} + x^{78} + x^{76} + x^{75} + x^{69} + x^{67} \\
& + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{52} + x^{50} \\
& + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{39}, \\
p_3(x) = & x^{143} + x^{137} + x^{133} + x^{131} + x^{129} + x^{111} + x^{109} + x^{107} + x^{101} + x^{99} \\
& + x^{97} + x^{93} + x^{91} + x^{89} + x^{87} + x^{85} + x^{83} + x^{77} + x^{75} + x^{73} + x^{61} \\
& + x^{59} + x^{57} + x^{53} + x^{51} + x^{49} + x^{45} + x^{43} + x^{41} + x^{39} + x^{33} + x^{31} \\
& + x^{29} + x^{27}, \\
p_6(x) = & x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{132} + x^{127} + x^{126} + x^{124} + x^{122} \\
& + x^{121} + x^{120} + x^{119} + x^{115} + x^{113} + x^{108} + x^{107} + x^{106} + x^{105} \\
& + x^{100} + x^{99} + x^{98} + x^{97} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{83} \\
& + x^{82} + x^{79} + x^{77} + x^{73} + x^{70} + x^{69} + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{54} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} \\
& + x^{44} + x^{41} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{30} \\
& + x^{26} + x^{23} + x^{22} + x^{20} + x^{18}, \\
p_9(x) = & x^{139} + x^{137} + x^{135} + x^{133} + x^{129} + x^{127} + x^{125} + x^{119} + x^{115} + x^{113} \\
& + x^{109} + x^{107} + x^{105} + x^{101} + x^{95} + x^{91} + x^{87} + x^{83} + x^{81} + x^{79} \\
& + x^{77} + x^{71} + x^{69} + x^{67} + x^{65} + x^{63} + x^{55} + x^{49} + x^{47} + x^{43} + x^{39} \\
& + x^{35} + x^{31} + x^{27} + x^{21} + x^{19} + x^{15} + x^{13} + x^{11} + x^9, \\
p_{12}(x) = & x^{137} + x^{136} + x^{134} + x^{133} + x^{130} + x^{128} + x^{125} + x^{124} + x^{122} + x^{120} \\
& + x^{117} + x^{116} + x^{114} + x^{112} + x^{89} + x^{88} + x^{86} + x^{85} + x^{82} + x^{80} \\
& + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{68} + x^{61} + x^{60} + x^{58} + x^{57} + x^{54} \\
& + x^{52} + x^{45} + x^{44} + x^{42} + x^{40} + x^{37} + x^{36} + x^{34} + x^{32} + x^{25} + x^{24}
\end{aligned}$$

$$+ x^{22} + x^{21} + x^{18} + x^{16} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 + x^2 + 1,$$

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

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

$$\begin{aligned} p_0(x) &= x^{150} + x^{146} + x^{138} + x^{136} + x^{134} + x^{132} + x^{128} + x^{126} + x^{120} + x^{116} \\ &\quad + x^{114} + x^{108} + x^{100} + x^{96} + x^{94} + x^{90} + x^{88} + x^{86} + x^{78} + x^{72} + x^{70} \\ &\quad + x^{64} + x^{62} + x^{60} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} + x^{44} + x^{42}, \\ p_3(x) &= x^{142} + x^{140} + x^{138} + x^{136} + x^{134} + x^{132} + x^{128} + x^{120} + x^{116} + x^{114} \\ &\quad + x^{112} + x^{108} + x^{106} + x^{102} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} \\ &\quad + x^{84} + x^{74} + x^{72} + x^{68} + x^{66} + x^{62} + x^{60} + x^{56} + x^{50} + x^{48} + x^{44} \\ &\quad + x^{32} + x^{28} + x^{26} + x^{22} + x^{18}, \\ p_6(x) &= x^{140} + x^{138} + x^{136} + x^{132} + x^{130} + x^{124} + x^{120} + x^{118} + x^{114} + x^{112} \\ &\quad + x^{108} + x^{104} + x^{102} + x^{98} + x^{92} + x^{90} + x^{88} + x^{82} + x^{80} + x^{68} + x^{64} \\ &\quad + x^{62} + x^{52} + x^{48} + x^{44} + x^{40} + x^{32} + x^{22} + x^{18} + x^{16} + x^{10} + x^6 \\ &\quad + x^2 + 1, \\ p_9(x) &= x^{146} + x^{144} + x^{142} + x^{138} + x^{132} + x^{126} + x^{118} + x^{106} + x^{100} + x^{92} \\ &\quad + x^{88} + x^{84} + x^{82} + x^{76} + x^{74} + x^{72} + x^{70} + x^{62} + x^{56} + x^{50} + x^{40} \\ &\quad + x^{38} + x^{32} + x^{28} + x^{20} + x^{12} + x^8 + x^6, \\ p_{12}(x) &= x^{146} + x^{144} + x^{122} + x^{120} + x^{114} + x^{112} + x^{98} + x^{96} + x^{82} + x^{80} \\ &\quad + x^{74} + x^{72} + x^{58} + x^{56} + x^{50} + x^{48} + x^{42} + x^{40} + x^{10} + x^8 + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{147} + x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{138} + x^{135} + x^{129} + x^{128} \\ &\quad + x^{127} + x^{125} + x^{124} + x^{121} + x^{120} + x^{118} + x^{115} + x^{113} + x^{111} \\ &\quad + x^{107} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{94} \\ &\quad + x^{90} + x^{89} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{74} + x^{73} + x^{69} \\ &\quad + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{60} + x^{54} + x^{53} + x^{52} + x^{46} \\ &\quad + x^{45} + x^{44} + x^{42} + x^{41} + x^{40} + x^{36}, \\ p_3(x) &= x^{145} + x^{144} + x^{143} + x^{142} + x^{139} + x^{137} + x^{136} + x^{130} + x^{129} + x^{126} \\ &\quad + x^{125} + x^{123} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} \\ &\quad + x^{108} + x^{107} + x^{106} + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{97} + x^{95} \\ &\quad + x^{94} + x^{92} + x^{88} + x^{86} + x^{85} + x^{83} + x^{82} + x^{79} + x^{77} + x^{76} + x^{74} \\ &\quad + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{64} + x^{63} + x^{62} + x^{57} + x^{54} + x^{53} \\ &\quad + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{32} + x^{30} \\ &\quad + x^{29} + x^{24}, \\ p_6(x) &= x^{145} + x^{144} + x^{143} + x^{142} + x^{139} + x^{137} + x^{136} + x^{135} + x^{132} + x^{130} \end{aligned}$$

$$\begin{aligned}
& + x^{129} + x^{128} + x^{125} + x^{118} + x^{115} + x^{111} + x^{107} + x^{106} + x^{103} \\
& + x^{101} + x^{100} + x^{96} + x^{89} + x^{88} + x^{84} + x^{83} + x^{80} + x^{78} + x^{75} + x^{74} \\
& + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} \\
& + x^{49} + x^{48} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{33} + x^{31} + x^{29} \\
& + x^{28} + x^{25} + x^{22} + x^{21} + x^{20} + x^{17} + x^{16} + x^{13} + x^{10} + x^8 + x^5 + x^4 \\
& + x^2 + 1, \\
p_9(x) &= x^{145} + x^{144} + x^{142} + x^{140} + x^{137} + x^{136} + x^{134} + x^{132} + x^{129} + x^{128} \\
& + x^{126} + x^{124} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{73} \\
& + x^{72} + x^{70} + x^{68} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} \\
& + x^{33} + x^{32} + x^{30} + x^{28} + x^{25} + x^{24} + x^{22} + x^{20} + x^{17} + x^{16} + x^{14} \\
& + x^{12}, \\
p_{12}(x) &= x^{145} + x^{144} + x^{142} + x^{140} + x^{133} + x^{132} + x^{130} + x^{129} + x^{126} + x^{125} \\
& + x^{122} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{97} + x^{96} + x^{94} + x^{92} \\
& + x^{85} + x^{84} + x^{82} + x^{80} + x^{77} + x^{76} + x^{74} + x^{72} + x^{61} + x^{60} + x^{58} \\
& + x^{56} + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{40} + x^{37} + x^{36} + x^{34} + x^{33} \\
& + x^{30} + x^{28} + x^{21} + x^{20} + x^{18} + x^{17} + x^{14} + x^{13} + x^{10} + x^8 + x^5 + x^4 \\
& + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{152} + x^{146} + x^{145} + x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{133} + x^{130} \\
& + x^{129} + x^{127} + x^{123} + x^{122} + x^{120} + x^{118} + x^{115} + x^{114} + x^{112} \\
& + x^{111} + x^{109} + x^{108} + x^{107} + x^{105} + x^{103} + x^{102} + x^{98} + x^{97} + x^{96} \\
& + x^{93} + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{81} + x^{78} + x^{75} \\
& + x^{74} + x^{73} + x^{72} + x^{70} + x^{68} + x^{67} + x^{62} + x^{61} + x^{59} + x^{57} + x^{56} \\
& + x^{54} + x^{53} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} \\
& + x^{39}, \\
p_3(x) &= x^{138} + x^{137} + x^{135} + x^{134} + x^{131} + x^{130} + x^{127} + x^{125} + x^{124} + x^{123} \\
& + x^{121} + x^{120} + x^{118} + x^{113} + x^{110} + x^{109} + x^{108} + x^{104} + x^{101} \\
& + x^{100} + x^{98} + x^{96} + x^{95} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{83} + x^{81} \\
& + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{61} + x^{60} + x^{58} + x^{56} + x^{55} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} \\
& + x^{43} + x^{42} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} + x^{27}, \\
p_6(x) &= x^{140} + x^{138} + x^{134} + x^{132} + x^{126} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} \\
& + x^{110} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} \\
& + x^{90} + x^{84} + x^{80} + x^{76} + x^{74} + x^{66} + x^{56} + x^{54} + x^{50} + x^{48} + x^{42}
\end{aligned}$$

$$\begin{aligned}
& + x^{38} + x^{28} + x^{26} + x^{22} + x^{18}, \\
p_9(x) &= x^{142} + x^{141} + x^{140} + x^{138} + x^{137} + x^{133} + x^{130} + x^{129} + x^{128} + x^{126} \\
& + x^{125} + x^{121} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{85} + x^{82} + x^{81} + x^{80} \\
& + x^{76} + x^{74} + x^{69} + x^{66} + x^{65} + x^{64} + x^{60} + x^{58} + x^{53} + x^{50} + x^{49} \\
& + x^{48} + x^{46} + x^{45} + x^{41} + x^{30} + x^{29} + x^{28} + x^{26} + x^{25} + x^{21} + x^{18} \\
& + x^{17} + x^{16} + x^{14} + x^{13} + x^9, \\
p_{12}(x) &= x^{144} + x^{140} + x^{132} + x^{120} + x^{116} + x^{112} + x^{96} + x^{92} + x^{84} + x^{80} \\
& + x^{76} + x^{72} + x^{60} + x^{56} + x^{48} + x^{40} + x^{36} + x^{28} + x^{20} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{152} + x^{149} + x^{146} + x^{142} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{135} \\
& + x^{133} + x^{132} + x^{130} + x^{128} + x^{127} + x^{126} + x^{125} + x^{124} + x^{123} \\
& + x^{121} + x^{119} + x^{118} + x^{114} + x^{112} + x^{111} + x^{109} + x^{108} + x^{107} \\
& + x^{106} + x^{105} + x^{103} + x^{100} + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} + x^{86} \\
& + x^{85} + x^{83} + x^{82} + x^{81} + x^{75} + x^{72} + x^{71} + x^{69} + x^{68} + x^{66} + x^{65} \\
& + x^{64} + x^{63} + x^{60} + x^{56} + x^{54} + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{45} \\
& + x^{43} + x^{42} + x^{40} + x^{39}, \\
p_3(x) &= x^{150} + x^{149} + x^{147} + x^{145} + x^{142} + x^{141} + x^{139} + x^{137} + x^{136} + x^{135} \\
& + x^{133} + x^{131} + x^{130} + x^{129} + x^{127} + x^{125} + x^{124} + x^{123} + x^{122} \\
& + x^{117} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} + x^{107} + x^{104} \\
& + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{91} + x^{88} + x^{87} + x^{86} \\
& + x^{82} + x^{80} + x^{76} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} + x^{62} + x^{60} \\
& + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{49} + x^{48} + x^{47} + x^{46} \\
& + x^{42} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} + x^{27}, \\
p_6(x) &= x^{152} + x^{150} + x^{148} + x^{140} + x^{134} + x^{130} + x^{124} + x^{122} + x^{120} + x^{112} \\
& + x^{106} + x^{104} + x^{100} + x^{92} + x^{88} + x^{78} + x^{72} + x^{70} + x^{66} + x^{62} + x^{60} \\
& + x^{58} + x^{54} + x^{52} + x^{46} + x^{44} + x^{38} + x^{34} + x^{28} + x^{26} + x^{22} + x^{18}, \\
p_9(x) &= x^{154} + x^{153} + x^{152} + x^{148} + x^{145} + x^{144} + x^{141} + x^{140} + x^{138} + x^{133} \\
& + x^{130} + x^{129} + x^{128} + x^{126} + x^{125} + x^{121} + x^{106} + x^{105} + x^{104} \\
& + x^{100} + x^{97} + x^{96} + x^{93} + x^{92} + x^{89} + x^{88} + x^{85} + x^{84} + x^{82} + x^{78} \\
& + x^{76} + x^{72} + x^{69} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{57} + x^{53} + x^{50} \\
& + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{40} + x^{36} + x^{33} + x^{32} + x^{29} + x^{28} \\
& + x^{26} + x^{21} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^9, \\
p_{12}(x) &= x^{156} + x^{136} + x^{132} + x^{128} + x^{120} + x^{116} + x^{112} + x^{108} + x^{92} + x^{88} \\
& + x^{84} + x^{80} + x^{76} + x^{44} + x^{40} + x^{36} + x^{32} + x^{24} + x^{20} + x^{16} + x^8
\end{aligned}$$

$$+ x^4 + 1,$$

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

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

$$\begin{aligned} p_0(x) = & x^{147} + x^{141} + x^{136} + x^{135} + x^{134} + x^{133} + x^{130} + x^{128} + x^{123} + x^{121} \\ & + x^{120} + x^{118} + x^{117} + x^{115} + x^{113} + x^{112} + x^{111} + x^{107} + x^{102} \\ & + x^{101} + x^{100} + x^{97} + x^{94} + x^{92} + x^{91} + x^{87} + x^{85} + x^{84} + x^{83} + x^{79} \\ & + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{68} + x^{67} + x^{64} + x^{63} \\ & + x^{62} + x^{61} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{51} + x^{50} + x^{48} + x^{44} \\ & + x^{42}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{137} + x^{136} + x^{134} + x^{131} \\ & + x^{129} + x^{128} + x^{125} + x^{123} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} \\ & + x^{111} + x^{110} + x^{109} + x^{107} + x^{103} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} \\ & + x^{95} + x^{92} + x^{91} + x^{90} + x^{84} + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} \\ & + x^{73} + x^{69} + x^{66} + x^{64} + x^{63} + x^{62} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} \\ & + x^{52} + x^{51} + x^{50} + x^{49} + x^{45} + x^{44} + x^{38} + x^{37} + x^{36} + x^{35} + x^{32} \\ & + x^{28} + x^{26}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{137} + x^{136} + x^{135} + x^{134} \\ & + x^{133} + x^{128} + x^{127} + x^{124} + x^{120} + x^{119} + x^{116} + x^{112} + x^{111} \\ & + x^{110} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\ & + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} \\ & + x^{70} + x^{69} + x^{68} + x^{65} + x^{62} + x^{56} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} \\ & + x^{48} + x^{47} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{33} \\ & + x^{32} + x^{28} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{14} + x^{13} + x^{12} + x^{10} \\ & + x^8 + x^5 + x^4 + x^2 + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{145} + x^{144} + x^{142} + x^{140} + x^{137} + x^{136} + x^{134} + x^{132} + x^{129} + x^{128} \\ & + x^{126} + x^{124} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{73} \\ & + x^{72} + x^{70} + x^{68} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} \\ & + x^{33} + x^{32} + x^{30} + x^{28} + x^{25} + x^{24} + x^{22} + x^{20} + x^{17} + x^{16} + x^{14} \\ & + x^{12}, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{145} + x^{144} + x^{142} + x^{140} + x^{133} + x^{132} + x^{130} + x^{129} + x^{126} + x^{125} \\ & + x^{122} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{97} + x^{96} + x^{94} + x^{92} \\ & + x^{85} + x^{84} + x^{82} + x^{80} + x^{77} + x^{76} + x^{74} + x^{72} + x^{61} + x^{60} + x^{58} \\ & + x^{56} + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{40} + x^{37} + x^{36} + x^{34} + x^{33} \\ & + x^{30} + x^{28} + x^{21} + x^{20} + x^{18} + x^{17} + x^{14} + x^{13} + x^{10} + x^8 + x^5 + x^4 \\ & + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{147} + x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{138} + x^{135} + x^{129} + x^{128} \\ & + x^{127} + x^{125} + x^{124} + x^{121} + x^{120} + x^{118} + x^{115} + x^{113} + x^{111} \\ & + x^{107} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{94} \\ & + x^{90} + x^{89} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{74} + x^{73} + x^{69} \\ & + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{62} + x^{60} + x^{54} + x^{53} + x^{52} + x^{46} \\ & + x^{45} + x^{44} + x^{42} + x^{41} + x^{40} + x^{36}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{145} + x^{144} + x^{143} + x^{142} + x^{139} + x^{137} + x^{136} + x^{130} + x^{129} + x^{126} \\ & + x^{125} + x^{123} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} \\ & + x^{108} + x^{107} + x^{106} + x^{104} + x^{103} + x^{101} + x^{100} + x^{99} + x^{97} + x^{95} \\ & + x^{94} + x^{92} + x^{88} + x^{86} + x^{85} + x^{83} + x^{82} + x^{79} + x^{77} + x^{76} + x^{74} \\ & + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} + x^{64} + x^{63} + x^{62} + x^{57} + x^{54} + x^{53} \\ & + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{32} + x^{30} \\ & + x^{29} + x^{24}, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{145} + x^{144} + x^{143} + x^{142} + x^{139} + x^{137} + x^{136} + x^{135} + x^{132} + x^{130} \\ & + x^{129} + x^{128} + x^{125} + x^{118} + x^{115} + x^{111} + x^{107} + x^{106} + x^{103} \\ & + x^{101} + x^{100} + x^{96} + x^{89} + x^{88} + x^{84} + x^{83} + x^{80} + x^{78} + x^{75} + x^{74} \\ & + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{56} \\ & + x^{49} + x^{48} + x^{43} + x^{42} + x^{41} + x^{40} + x^{38} + x^{37} + x^{33} + x^{31} + x^{29} \\ & + x^{28} + x^{25} + x^{22} + x^{21} + x^{20} + x^{17} + x^{16} + x^{13} + x^{10} + x^8 + x^5 + x^4 \\ & + x^2 + 1, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{145} + x^{144} + x^{142} + x^{140} + x^{137} + x^{136} + x^{134} + x^{132} + x^{129} + x^{128} \\ & + x^{126} + x^{124} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{73} \\ & + x^{72} + x^{70} + x^{68} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} \\ & + x^{33} + x^{32} + x^{30} + x^{28} + x^{25} + x^{24} + x^{22} + x^{20} + x^{17} + x^{16} + x^{14} \\ & + x^{12}, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{145} + x^{144} + x^{142} + x^{140} + x^{133} + x^{132} + x^{130} + x^{129} + x^{126} + x^{125} \\ & + x^{122} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{97} + x^{96} + x^{94} + x^{92} \\ & + x^{85} + x^{84} + x^{82} + x^{80} + x^{77} + x^{76} + x^{74} + x^{72} + x^{61} + x^{60} + x^{58} \\ & + x^{56} + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{40} + x^{37} + x^{36} + x^{34} + x^{33} \\ & + x^{30} + x^{28} + x^{21} + x^{20} + x^{18} + x^{17} + x^{14} + x^{13} + x^{10} + x^8 + x^5 + x^4 \\ & + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{152} + x^{149} + x^{146} + x^{142} + x^{140} + x^{139} + x^{138} + x^{137} + x^{136} + x^{135} \\
&\quad + x^{133} + x^{132} + x^{130} + x^{128} + x^{127} + x^{126} + x^{125} + x^{124} + x^{123} \\
&\quad + x^{121} + x^{119} + x^{118} + x^{114} + x^{112} + x^{111} + x^{109} + x^{108} + x^{107} \\
&\quad + x^{106} + x^{105} + x^{103} + x^{100} + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} + x^{86} \\
&\quad + x^{85} + x^{83} + x^{82} + x^{81} + x^{75} + x^{72} + x^{71} + x^{69} + x^{68} + x^{66} + x^{65} \\
&\quad + x^{64} + x^{63} + x^{60} + x^{56} + x^{54} + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{45} \\
&\quad + x^{43} + x^{42} + x^{40} + x^{39}, \\
p_3(x) &= x^{150} + x^{149} + x^{147} + x^{145} + x^{142} + x^{141} + x^{139} + x^{137} + x^{136} + x^{135} \\
&\quad + x^{133} + x^{131} + x^{130} + x^{129} + x^{127} + x^{125} + x^{124} + x^{123} + x^{122} \\
&\quad + x^{117} + x^{114} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} + x^{107} + x^{104} \\
&\quad + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{91} + x^{88} + x^{87} + x^{86} \\
&\quad + x^{82} + x^{80} + x^{76} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} + x^{62} + x^{60} \\
&\quad + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{49} + x^{48} + x^{47} + x^{46} \\
&\quad + x^{42} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} + x^{27}, \\
p_6(x) &= x^{152} + x^{150} + x^{148} + x^{140} + x^{134} + x^{130} + x^{124} + x^{122} + x^{120} + x^{112} \\
&\quad + x^{106} + x^{104} + x^{100} + x^{92} + x^{88} + x^{78} + x^{72} + x^{70} + x^{66} + x^{62} + x^{60} \\
&\quad + x^{58} + x^{54} + x^{52} + x^{46} + x^{44} + x^{38} + x^{34} + x^{28} + x^{26} + x^{22} + x^{18}, \\
p_9(x) &= x^{154} + x^{153} + x^{152} + x^{148} + x^{145} + x^{144} + x^{141} + x^{140} + x^{138} + x^{133} \\
&\quad + x^{130} + x^{129} + x^{128} + x^{126} + x^{125} + x^{121} + x^{106} + x^{105} + x^{104} \\
&\quad + x^{100} + x^{97} + x^{96} + x^{93} + x^{92} + x^{89} + x^{88} + x^{85} + x^{84} + x^{82} + x^{78} \\
&\quad + x^{76} + x^{72} + x^{69} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{57} + x^{53} + x^{50} \\
&\quad + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{40} + x^{36} + x^{33} + x^{32} + x^{29} + x^{28} \\
&\quad + x^{26} + x^{21} + x^{18} + x^{17} + x^{16} + x^{14} + x^{13} + x^9, \\
p_{12}(x) &= x^{156} + x^{136} + x^{132} + x^{128} + x^{120} + x^{116} + x^{112} + x^{108} + x^{92} + x^{88} \\
&\quad + x^{84} + x^{80} + x^{76} + x^{44} + x^{40} + x^{36} + x^{32} + x^{24} + x^{20} + x^{16} + x^8 \\
&\quad + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{152} + x^{146} + x^{145} + x^{141} + x^{140} + x^{139} + x^{137} + x^{136} + x^{133} + x^{130} \\
&\quad + x^{129} + x^{127} + x^{123} + x^{122} + x^{120} + x^{118} + x^{115} + x^{114} + x^{112} \\
&\quad + x^{111} + x^{109} + x^{108} + x^{107} + x^{105} + x^{103} + x^{102} + x^{98} + x^{97} + x^{96} \\
&\quad + x^{93} + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{81} + x^{78} + x^{75} \\
&\quad + x^{74} + x^{73} + x^{72} + x^{70} + x^{68} + x^{67} + x^{62} + x^{61} + x^{59} + x^{57} + x^{56} \\
&\quad + x^{54} + x^{53} + x^{50} + x^{48} + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40}
\end{aligned}$$

$$\begin{aligned}
& + x^{39}, \\
p_3(x) &= x^{138} + x^{137} + x^{135} + x^{134} + x^{131} + x^{130} + x^{127} + x^{125} + x^{124} + x^{123} \\
& + x^{121} + x^{120} + x^{118} + x^{113} + x^{110} + x^{109} + x^{108} + x^{104} + x^{101} \\
& + x^{100} + x^{98} + x^{96} + x^{95} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{83} + x^{81} \\
& + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{61} + x^{60} + x^{58} + x^{56} + x^{55} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} \\
& + x^{43} + x^{42} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} + x^{27}, \\
p_6(x) &= x^{140} + x^{138} + x^{134} + x^{132} + x^{126} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} \\
& + x^{110} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} \\
& + x^{90} + x^{84} + x^{80} + x^{76} + x^{74} + x^{66} + x^{56} + x^{54} + x^{50} + x^{48} + x^{42} \\
& + x^{38} + x^{28} + x^{26} + x^{22} + x^{18}, \\
p_9(x) &= x^{142} + x^{141} + x^{140} + x^{138} + x^{137} + x^{133} + x^{130} + x^{129} + x^{128} + x^{126} \\
& + x^{125} + x^{121} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{85} + x^{82} + x^{81} + x^{80} \\
& + x^{76} + x^{74} + x^{69} + x^{66} + x^{65} + x^{64} + x^{60} + x^{58} + x^{53} + x^{50} + x^{49} \\
& + x^{48} + x^{46} + x^{45} + x^{41} + x^{30} + x^{29} + x^{28} + x^{26} + x^{25} + x^{21} + x^{18} \\
& + x^{17} + x^{16} + x^{14} + x^{13} + x^9, \\
p_{12}(x) &= x^{144} + x^{140} + x^{132} + x^{120} + x^{116} + x^{112} + x^{96} + x^{92} + x^{84} + x^{80} \\
& + x^{76} + x^{72} + x^{60} + x^{56} + x^{48} + x^{40} + x^{36} + x^{28} + x^{20} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{141} + x^{136} + x^{135} + x^{134} + x^{133} + x^{130} + x^{128} + x^{123} + x^{121} \\
& + x^{120} + x^{118} + x^{117} + x^{115} + x^{113} + x^{112} + x^{111} + x^{107} + x^{102} \\
& + x^{101} + x^{100} + x^{97} + x^{94} + x^{92} + x^{91} + x^{87} + x^{85} + x^{84} + x^{83} + x^{79} \\
& + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{68} + x^{67} + x^{64} + x^{63} \\
& + x^{62} + x^{61} + x^{59} + x^{57} + x^{56} + x^{54} + x^{53} + x^{51} + x^{50} + x^{48} + x^{44} \\
& + x^{42}, \\
p_3(x) &= x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{137} + x^{136} + x^{134} + x^{131} \\
& + x^{129} + x^{128} + x^{125} + x^{123} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} \\
& + x^{111} + x^{110} + x^{109} + x^{107} + x^{103} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} \\
& + x^{95} + x^{92} + x^{91} + x^{90} + x^{84} + x^{83} + x^{80} + x^{79} + x^{77} + x^{76} + x^{75} \\
& + x^{73} + x^{69} + x^{66} + x^{64} + x^{63} + x^{62} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} \\
& + x^{52} + x^{51} + x^{50} + x^{49} + x^{45} + x^{44} + x^{38} + x^{37} + x^{36} + x^{35} + x^{32} \\
& + x^{28} + x^{26}, \\
p_6(x) &= x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{137} + x^{136} + x^{135} + x^{134} \\
& + x^{133} + x^{128} + x^{127} + x^{124} + x^{120} + x^{119} + x^{116} + x^{112} + x^{111}
\end{aligned}$$

$$\begin{aligned}
& + x^{110} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\
& + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{79} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} \\
& + x^{70} + x^{69} + x^{68} + x^{65} + x^{62} + x^{56} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} \\
& + x^{48} + x^{47} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} + x^{35} + x^{33} \\
& + x^{32} + x^{28} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{14} + x^{13} + x^{12} + x^{10} \\
& + x^8 + x^5 + x^4 + x^2 + 1, \\
p_9(x) &= x^{145} + x^{144} + x^{142} + x^{140} + x^{137} + x^{136} + x^{134} + x^{132} + x^{129} + x^{128} \\
& + x^{126} + x^{124} + x^{97} + x^{96} + x^{94} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{73} \\
& + x^{72} + x^{70} + x^{68} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{48} + x^{46} + x^{44} \\
& + x^{33} + x^{32} + x^{30} + x^{28} + x^{25} + x^{24} + x^{22} + x^{20} + x^{17} + x^{16} + x^{14} \\
& + x^{12}, \\
p_{12}(x) &= x^{145} + x^{144} + x^{142} + x^{140} + x^{133} + x^{132} + x^{130} + x^{129} + x^{126} + x^{125} \\
& + x^{122} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{97} + x^{96} + x^{94} + x^{92} \\
& + x^{85} + x^{84} + x^{82} + x^{80} + x^{77} + x^{76} + x^{74} + x^{72} + x^{61} + x^{60} + x^{58} \\
& + x^{56} + x^{49} + x^{48} + x^{46} + x^{45} + x^{42} + x^{40} + x^{37} + x^{36} + x^{34} + x^{33} \\
& + x^{30} + x^{28} + x^{21} + x^{20} + x^{18} + x^{17} + x^{14} + x^{13} + x^{10} + x^8 + x^5 + x^4 \\
& + x^2 + 1,
\end{aligned}$$

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	$\Lambda(n)$
0	[1, 2]	2326	[3819, 3820]	4652	[3800, 1150]	6978	[8135, 8136]
1	[3, 4]	2327	[1590, 3821]	4653	[6279, 6280]	6979	[2452, 8137]
2	[5, 6]	2328	[3822, 3823]	4654	[3695, 3146]	6980	[5903, 5899]
3	[7, 8]	2329	[3824, 3825]	4655	[3748, 3896]	6981	[7796, 8138]
4	[9, 10]	2330	[3826, 3827]	4656	[6281, 3810]	6982	[8139, 8140]
5	[11, 12]	2331	[3828, 3829]	4657	[6282, 6283]	6983	[901, 5138]
6	[13, 14]	2332	[276, 93]	4658	[6284, 1469]	6984	[5373, 926]
7	[15, 16]	2333	[1257, 109]	4659	[3428, 3242]	6985	[8141, 8142]
8	[17, 18]	2334	[3830, 3831]	4660	[6285, 6286]	6986	[8143, 8144]
9	[19, 20]	2335	[3832, 3833]	4661	[6287, 4213]	6987	[2395, 792]
10	[21, 22]	2336	[396, 3834]	4662	[4352, 3327]	6988	[8145, 7767]
11	[23, 24]	2337	[3835, 3836]	4663	[1736, 1208]	6989	[8146, 5133]
12	[25, 26]	2338	[1610, 3837]	4664	[6288, 318]	6990	[8147, 5859]
13	[27, 28]	2339	[3201, 3183]	4665	[6289, 6290]	6991	[8148, 8149]
14	[29, 30]	2340	[3838, 3839]	4666	[6291, 4468]	6992	[7774, 7765]
15	[31, 32]	2341	[3467, 3840]	4667	[3802, 1414]	6993	[6081, 5688]
16	[33, 34]	2342	[3841, 3842]	4668	[6292, 4317]	6994	[8150, 2231]

17	[35, 36]	2343	[3843, 3127]	4669	[6293, 460]	6995	[5760, 2841]
18	[37, 38]	2344	[1526, 3124]	4670	[6294, 3219]	6996	[4684, 56]
19	[39, 40]	2345	[3844, 1175]	4671	[375, 6295]	6997	[541, 6229]
20	[41, 42]	2346	[1520, 3198]	4672	[3817, 6296]	6998	[4741, 2005]
21	[43, 44]	2347	[3272, 3845]	4673	[6297, 4430]	6999	[5090, 5583]
22	[45, 46]	2348	[3846, 3847]	4674	[6298, 6299]	7000	[8151, 8152]
23	[47, 48]	2349	[3848, 3591]	4675	[6300, 6301]	7001	[5310, 5483]
24	[49, 50]	2350	[3849, 3617]	4676	[6302, 6303]	7002	[8153, 7781]
25	[51, 52]	2351	[3850, 3851]	4677	[6304, 3526]	7003	[8154, 8155]
26	[53, 54]	2352	[3606, 3145]	4678	[6305, 1463]	7004	[8156, 8157]
27	[55, 56]	2353	[3852, 1374]	4679	[6292, 4468]	7005	[4815, 5399]
28	[57, 58]	2354	[3853, 3854]	4680	[6306, 6307]	7006	[2991, 4809]
29	[59, 60]	2355	[3855, 3493]	4681	[4553, 4462]	7007	[8016, 5012]
30	[61, 62]	2356	[3856, 1351]	4682	[6308, 6309]	7008	[8158, 8159]
31	[63, 64]	2357	[3857, 3858]	4683	[6310, 6311]	7009	[6036, 2051]
32	[65, 66]	2358	[3859, 1680]	4684	[6312, 6313]	7010	[8160, 8161]
33	[67, 68]	2359	[3860, 3861]	4685	[464, 316]	7011	[6094, 5325]
34	[69, 70]	2360	[3862, 3692]	4686	[1307, 1223]	7012	[2417, 533]
35	[71, 72]	2361	[3863, 3074]	4687	[6314, 1036]	7013	[5333, 2801]
36	[73, 74]	2362	[3864, 3256]	4688	[1368, 3692]	7014	[8162, 2091]
37	[75, 76]	2363	[3865, 3674]	4689	[4433, 292]	7015	[2874, 564]
38	[77, 78]	2364	[3866, 1445]	4690	[4596, 1013]	7016	[4670, 6091]
39	[79, 80]	2365	[1035, 123]	4691	[4457, 6315]	7017	[8163, 2814]
40	[81, 82]	2366	[3867, 3861]	4692	[6316, 3705]	7018	[4684, 6206]
41	[83, 84]	2367	[3868, 456]	4693	[6317, 6318]	7019	[8034, 6108]
42	[85, 86]	2368	[3869, 1094]	4694	[4588, 6319]	7020	[5160, 1798]
43	[87, 88]	2369	[3404, 3870]	4695	[6320, 6321]	7021	[8164, 8165]
44	[89, 90]	2370	[3871, 3579]	4696	[6322, 6323]	7022	[8166, 1816]
45	[91, 92]	2371	[3872, 1715]	4697	[6324, 6325]	7023	[2320, 4773]
46	[93, 94]	2372	[1174, 3626]	4698	[6326, 4352]	7024	[6071, 4758]
47	[95, 96]	2373	[3873, 3874]	4699	[4511, 6327]	7025	[8167, 2461]
48	[97, 98]	2374	[3875, 3185]	4700	[3340, 1201]	7026	[7798, 2335]
49	[99, 100]	2375	[3876, 1247]	4701	[4154, 1666]	7027	[7962, 750]
50	[101, 102]	2376	[3877, 1146]	4702	[6328, 6329]	7028	[888, 4857]
51	[103, 104]	2377	[3878, 3108]	4703	[6330, 4158]	7029	[6019, 7862]
52	[105, 106]	2378	[3879, 3443]	4704	[1184, 1743]	7030	[8168, 8169]
53	[107, 108]	2379	[3880, 391]	4705	[6331, 6332]	7031	[5879, 2823]
54	[109, 110]	2380	[3881, 3882]	4706	[6333, 4035]	7032	[5867, 8170]
55	[111, 112]	2381	[3883, 3884]	4707	[6334, 466]	7033	[2730, 5578]
56	[113, 114]	2382	[3885, 3886]	4708	[6335, 4606]	7034	[2606, 8062]
57	[115, 116]	2383	[3887, 3888]	4709	[6336, 6337]	7035	[8171, 6223]
58	[117, 118]	2384	[3889, 1567]	4710	[6338, 1315]	7036	[7963, 5748]
59	[119, 120]	2385	[3890, 457]	4711	[6339, 4235]	7037	[7930, 2819]
60	[121, 122]	2386	[3891, 1712]	4712	[355, 4433]	7038	[2476, 8172]

61	[123, 124]	2387	[3892, 3893]	4713	[6340, 4610]	7039	[501, 1917]
62	[125, 126]	2388	[3894, 3895]	4714	[1218, 23]	7040	[8173, 180]
63	[127, 128]	2389	[3896, 3769]	4715	[6341, 3260]	7041	[7694, 8174]
64	[129, 130]	2390	[3897, 1473]	4716	[6342, 6343]	7042	[5394, 7987]
65	[131, 132]	2391	[3898, 3667]	4717	[4473, 6344]	7043	[8175, 8176]
66	[133, 134]	2392	[3899, 3900]	4718	[6345, 6346]	7044	[8177, 8178]
67	[135, 136]	2393	[3901, 3437]	4719	[6347, 3866]	7045	[1866, 8179]
68	[137, 138]	2394	[3902, 3903]	4720	[6348, 3577]	7046	[8180, 5502]
69	[139, 140]	2395	[3904, 3442]	4721	[6349, 1647]	7047	[875, 1986]
70	[141, 142]	2396	[3905, 3906]	4722	[6350, 6351]	7048	[8181, 2466]
71	[143, 144]	2397	[3907, 3908]	4723	[6287, 3720]	7049	[2376, 541]
72	[145, 146]	2398	[336, 1608]	4724	[6352, 6353]	7050	[239, 559]
73	[147, 148]	2399	[3909, 393]	4725	[6354, 6355]	7051	[8182, 5101]
74	[149, 150]	2400	[3910, 3911]	4726	[6356, 6357]	7052	[5432, 225]
75	[151, 152]	2401	[3912, 3913]	4727	[1693, 4205]	7053	[5327, 2438]
76	[153, 154]	2402	[3491, 3914]	4728	[6358, 6359]	7054	[8183, 7932]
77	[155, 156]	2403	[3915, 3916]	4729	[6360, 1300]	7055	[8184, 45]
78	[157, 158]	2404	[3898, 3917]	4730	[4477, 4315]	7056	[8185, 8186]
79	[159, 160]	2405	[3918, 3919]	4731	[6361, 3456]	7057	[8187, 5612]
80	[161, 140]	2406	[3920, 3189]	4732	[6362, 6363]	7058	[8188, 8189]
81	[162, 163]	2407	[3921, 3005]	4733	[6364, 4458]	7059	[5458, 2346]
82	[164, 165]	2408	[1585, 3922]	4734	[428, 376]	7060	[8190, 2259]
83	[166, 167]	2409	[3923, 3924]	4735	[6365, 6366]	7061	[8191, 7797]
84	[168, 169]	2410	[3925, 3858]	4736	[6367, 6368]	7062	[5456, 8192]
85	[170, 171]	2411	[3926, 3927]	4737	[1130, 968]	7063	[8193, 8194]
86	[172, 173]	2412	[3928, 1385]	4738	[6369, 6370]	7064	[146, 8094]
87	[174, 175]	2413	[3929, 16]	4739	[6371, 4514]	7065	[5633, 2242]
88	[176, 177]	2414	[3930, 3931]	4740	[4321, 3378]	7066	[8190, 843]
89	[178, 179]	2415	[3932, 3933]	4741	[4396, 1598]	7067	[5807, 4958]
90	[180, 181]	2416	[3934, 3935]	4742	[370, 4058]	7068	[5686, 8195]
91	[182, 183]	2417	[3936, 3937]	4743	[3784, 6372]	7069	[7939, 8196]
92	[184, 185]	2418	[3938, 3939]	4744	[4274, 6373]	7070	[2673, 933]
93	[186, 187]	2419	[3940, 3941]	4745	[6374, 6375]	7071	[5476, 4631]
94	[188, 189]	2420	[3942, 3943]	4746	[4591, 6303]	7072	[8197, 8198]
95	[190, 191]	2421	[3409, 3944]	4747	[6376, 94]	7073	[5103, 8199]
96	[192, 193]	2422	[3945, 3616]	4748	[6377, 3727]	7074	[6017, 7636]
97	[194, 195]	2423	[3946, 1401]	4749	[6378, 3074]	7075	[2277, 725]
98	[196, 197]	2424	[968, 3947]	4750	[3841, 6379]	7076	[8200, 7936]
99	[198, 199]	2425	[3948, 3949]	4751	[3102, 3113]	7077	[242, 5497]
100	[200, 201]	2426	[3950, 1031]	4752	[3519, 6380]	7078	[8201, 1990]
101	[202, 203]	2427	[3951, 1396]	4753	[6381, 6382]	7079	[4774, 1802]
102	[204, 205]	2428	[3858, 3952]	4754	[3341, 6383]	7080	[8202, 8203]
103	[206, 207]	2429	[3953, 3954]	4755	[6384, 1627]	7081	[8204, 2695]
104	[208, 209]	2430	[3955, 3956]	4756	[6385, 3180]	7082	[8205, 8206]

105	[210, 211]	2431	[3957, 1304]	4757	[6386, 1123]	7083	[8207, 6179]
106	[212, 213]	2432	[3958, 3644]	4758	[6387, 6388]	7084	[2147, 5580]
107	[214, 215]	2433	[3959, 3229]	4759	[6389, 1617]	7085	[6197, 7654]
108	[216, 217]	2434	[1358, 258]	4760	[6390, 4564]	7086	[51, 5198]
109	[218, 219]	2435	[3960, 1695]	4761	[3793, 6391]	7087	[8208, 8209]
110	[220, 221]	2436	[1030, 3879]	4762	[6392, 6393]	7088	[5935, 4697]
111	[222, 223]	2437	[3961, 966]	4763	[6394, 3548]	7089	[5885, 8210]
112	[224, 225]	2438	[3962, 3963]	4764	[4514, 99]	7090	[7722, 5020]
113	[226, 227]	2439	[3964, 3965]	4765	[3106, 4084]	7091	[2269, 6249]
114	[228, 229]	2440	[3966, 3967]	4766	[385, 6395]	7092	[127, 4781]
115	[230, 231]	2441	[406, 3362]	4767	[6396, 70]	7093	[192, 8211]
116	[232, 233]	2442	[1183, 1742]	4768	[379, 6290]	7094	[8011, 574]
117	[234, 235]	2443	[3968, 1498]	4769	[3869, 4002]	7095	[531, 525]
118	[236, 237]	2444	[3969, 469]	4770	[6397, 481]	7096	[8212, 5781]
119	[238, 239]	2445	[1040, 3970]	4771	[6291, 4317]	7097	[4990, 8213]
120	[240, 241]	2446	[3971, 3602]	4772	[6398, 6399]	7098	[6058, 5978]
121	[242, 243]	2447	[3972, 3973]	4773	[1665, 6400]	7099	[2496, 8214]
122	[225, 244]	2448	[3974, 3975]	4774	[1617, 1754]	7100	[8215, 2737]
123	[245, 246]	2449	[3976, 3020]	4775	[1706, 1742]	7101	[7915, 8216]
124	[247, 248]	2450	[3977, 3978]	4776	[3017, 993]	7102	[8217, 2776]
125	[249, 250]	2451	[3979, 3980]	4777	[3380, 3081]	7103	[4957, 2583]
126	[251, 252]	2452	[3981, 1447]	4778	[6401, 1714]	7104	[2835, 8218]
127	[253, 254]	2453	[3982, 3291]	4779	[6402, 426]	7105	[4861, 8219]
128	[255, 256]	2454	[3157, 392]	4780	[1577, 428]	7106	[8220, 7981]
129	[257, 258]	2455	[3983, 3984]	4781	[3069, 1683]	7107	[8221, 5332]
130	[259, 260]	2456	[3985, 3986]	4782	[6403, 6404]	7108	[5399, 8222]
131	[261, 262]	2457	[1060, 293]	4783	[4354, 3479]	7109	[6216, 8223]
132	[263, 264]	2458	[3987, 1060]	4784	[6405, 1181]	7110	[5178, 8178]
133	[265, 266]	2459	[3988, 3989]	4785	[3722, 4550]	7111	[8224, 8225]
134	[267, 268]	2460	[3990, 3991]	4786	[6406, 6407]	7112	[8226, 5768]
135	[269, 270]	2461	[3072, 1192]	4787	[6408, 3786]	7113	[917, 8179]
136	[271, 272]	2462	[335, 1319]	4788	[6409, 1345]	7114	[874, 2897]
137	[273, 274]	2463	[3992, 996]	4789	[6410, 6411]	7115	[5182, 8227]
138	[275, 276]	2464	[3993, 3994]	4790	[4269, 4548]	7116	[5398, 4816]
139	[277, 278]	2465	[3995, 3996]	4791	[6412, 6413]	7117	[8228, 8105]
140	[279, 280]	2466	[3997, 3998]	4792	[6414, 1359]	7118	[8229, 2737]
141	[281, 282]	2467	[3999, 4000]	4793	[6415, 1313]	7119	[5415, 5989]
142	[283, 284]	2468	[3561, 4001]	4794	[4598, 6416]	7120	[7928, 510]
143	[285, 286]	2469	[1093, 4002]	4795	[6417, 1208]	7121	[8230, 1916]
144	[287, 288]	2470	[4003, 999]	4796	[6418, 1426]	7122	[8160, 8231]
145	[289, 290]	2471	[4004, 3865]	4797	[1629, 6419]	7123	[5941, 6042]
146	[291, 292]	2472	[4005, 3952]	4798	[6420, 4017]	7124	[5488, 188]
147	[293, 294]	2473	[4006, 1273]	4799	[6421, 6422]	7125	[585, 7691]
148	[295, 296]	2474	[3032, 4007]	4800	[6423, 6424]	7126	[8232, 8122]

149	[297, 298]	2475	[4008, 4009]	4801	[6425, 1552]	7127	[6008, 4954]
150	[299, 300]	2476	[1473, 4010]	4802	[331, 265]	7128	[5096, 5077]
151	[301, 302]	2477	[4011, 1670]	4803	[4483, 1642]	7129	[5374, 141]
152	[303, 304]	2478	[3579, 3026]	4804	[6260, 1036]	7130	[2867, 4743]
153	[305, 306]	2479	[458, 3236]	4805	[6426, 1355]	7131	[8233, 7717]
154	[307, 308]	2480	[3996, 4012]	4806	[6427, 6428]	7132	[7961, 2746]
155	[309, 310]	2481	[4013, 4014]	4807	[976, 405]	7133	[8234, 2280]
156	[311, 312]	2482	[4015, 4016]	4808	[6429, 1078]	7134	[8235, 7735]
157	[313, 314]	2483	[1037, 3076]	4809	[6430, 6431]	7135	[8236, 1768]
158	[315, 316]	2484	[305, 4017]	4810	[6432, 6433]	7136	[8237, 8047]
159	[317, 318]	2485	[4018, 314]	4811	[6434, 6435]	7137	[8238, 5968]
160	[319, 320]	2486	[4019, 4020]	4812	[1617, 6436]	7138	[2262, 4948]
161	[321, 322]	2487	[4021, 3217]	4813	[261, 286]	7139	[7877, 745]
162	[323, 324]	2488	[4022, 4023]	4814	[1503, 6437]	7140	[230, 2652]
163	[325, 326]	2489	[4024, 3957]	4815	[4221, 6438]	7141	[5998, 162]
164	[327, 328]	2490	[3444, 382]	4816	[6439, 6440]	7142	[8239, 2260]
165	[329, 330]	2491	[4025, 4026]	4817	[6441, 6442]	7143	[8240, 5861]
166	[331, 332]	2492	[4027, 4028]	4818	[4266, 1405]	7144	[2933, 8241]
167	[333, 334]	2493	[4029, 4030]	4819	[6443, 1046]	7145	[8242, 6157]
168	[335, 336]	2494	[4031, 1232]	4820	[6444, 6445]	7146	[8243, 2358]
169	[337, 338]	2495	[4032, 1758]	4821	[6446, 1064]	7147	[5202, 153]
170	[339, 340]	2496	[4033, 3354]	4822	[6425, 3767]	7148	[814, 2456]
171	[341, 342]	2497	[4034, 3115]	4823	[4503, 6447]	7149	[8244, 7984]
172	[343, 344]	2498	[4035, 4036]	4824	[4097, 6448]	7150	[144, 4796]
173	[345, 346]	2499	[1569, 3901]	4825	[6449, 3628]	7151	[8245, 8246]
174	[347, 348]	2500	[4037, 3756]	4826	[6450, 3771]	7152	[8247, 5296]
175	[349, 350]	2501	[4038, 4039]	4827	[6451, 4435]	7153	[2598, 8248]
176	[351, 352]	2502	[4040, 4041]	4828	[6452, 267]	7154	[2015, 5434]
177	[353, 354]	2503	[1559, 4042]	4829	[6453, 6454]	7155	[4935, 8249]
178	[355, 291]	2504	[4043, 4044]	4830	[6455, 4195]	7156	[2563, 856]
179	[356, 357]	2505	[1281, 4045]	4831	[6456, 6457]	7157	[6113, 1972]
180	[358, 359]	2506	[4046, 1356]	4832	[1066, 6458]	7158	[7949, 8250]
181	[360, 361]	2507	[4047, 4048]	4833	[6332, 3532]	7159	[5819, 2608]
182	[362, 363]	2508	[4049, 473]	4834	[6459, 4121]	7160	[8251, 236]
183	[364, 365]	2509	[4050, 4051]	4835	[6460, 4575]	7161	[8252, 2928]
184	[366, 367]	2510	[4052, 4053]	4836	[6461, 6462]	7162	[858, 251]
185	[368, 369]	2511	[3819, 4054]	4837	[6463, 6464]	7163	[8253, 1912]
186	[370, 371]	2512	[1398, 4055]	4838	[6465, 4030]	7164	[8254, 5806]
187	[372, 373]	2513	[4056, 1377]	4839	[6466, 1035]	7165	[8255, 8256]
188	[374, 375]	2514	[4057, 3364]	4840	[3846, 4189]	7166	[6039, 1797]
189	[376, 377]	2515	[4058, 3133]	4841	[6318, 3068]	7167	[2480, 7825]
190	[378, 379]	2516	[3572, 3541]	4842	[3110, 4568]	7168	[2596, 499]
191	[90, 380]	2517	[1209, 3903]	4843	[6467, 4023]	7169	[7810, 247]
192	[381, 382]	2518	[4059, 3645]	4844	[3338, 6256]	7170	[5621, 4960]

193	[383, 384]	2519	[4051, 4060]	4845	[6468, 3043]	7171	[738, 6085]
194	[385, 386]	2520	[4061, 433]	4846	[1182, 3648]	7172	[6234, 2518]
195	[387, 388]	2521	[4062, 3317]	4847	[6469, 6470]	7173	[8257, 7876]
196	[389, 390]	2522	[4063, 1217]	4848	[6471, 6472]	7174	[5751, 2193]
197	[391, 392]	2523	[4064, 1169]	4849	[6473, 3111]	7175	[8258, 2397]
198	[393, 394]	2524	[4065, 1088]	4850	[6474, 6475]	7176	[4918, 4751]
199	[395, 396]	2525	[16, 4066]	4851	[4322, 3379]	7177	[8259, 863]
200	[397, 398]	2526	[4067, 4068]	4852	[381, 6476]	7178	[5140, 5818]
201	[399, 400]	2527	[4069, 4070]	4853	[6477, 95]	7179	[5425, 149]
202	[401, 402]	2528	[4071, 3033]	4854	[1101, 6431]	7180	[2925, 631]
203	[373, 403]	2529	[4072, 4073]	4855	[6478, 4257]	7181	[7811, 8082]
204	[404, 405]	2530	[3886, 3102]	4856	[6479, 4128]	7182	[2012, 7670]
205	[301, 406]	2531	[4074, 3647]	4857	[6480, 6481]	7183	[4995, 8260]
206	[407, 408]	2532	[4075, 4076]	4858	[6482, 6483]	7184	[8261, 127]
207	[409, 410]	2533	[4077, 1717]	4859	[6484, 6485]	7185	[8262, 576]
208	[411, 412]	2534	[3990, 3370]	4860	[6486, 3284]	7186	[8263, 5596]
209	[413, 414]	2535	[4078, 442]	4861	[4183, 3534]	7187	[8264, 7901]
210	[415, 416]	2536	[4079, 4080]	4862	[6487, 1444]	7188	[4834, 855]
211	[417, 418]	2537	[4081, 4082]	4863	[6273, 1446]	7189	[8265, 250]
212	[419, 270]	2538	[4083, 4084]	4864	[6488, 4044]	7190	[4988, 2905]
213	[420, 421]	2539	[3770, 4085]	4865	[3129, 1272]	7191	[8266, 5661]
214	[422, 423]	2540	[4086, 4087]	4866	[6489, 6490]	7192	[128, 5505]
215	[424, 425]	2541	[3347, 496]	4867	[4272, 1613]	7193	[8267, 8268]
216	[426, 427]	2542	[486, 4088]	4868	[3011, 6491]	7194	[2489, 2488]
217	[428, 429]	2543	[4089, 3636]	4869	[6492, 1495]	7195	[1795, 184]
218	[430, 431]	2544	[4090, 4091]	4870	[1526, 4014]	7196	[8269, 5367]
219	[432, 433]	2545	[4092, 1309]	4871	[6493, 1537]	7197	[5338, 5338]
220	[434, 435]	2546	[4093, 4094]	4872	[6494, 1104]	7198	[8270, 4915]
221	[436, 437]	2547	[4095, 4096]	4873	[6495, 6332]	7199	[4645, 5078]
222	[6, 438]	2548	[4097, 4098]	4874	[6496, 6497]	7200	[1957, 2443]
223	[439, 440]	2549	[4099, 3835]	4875	[6498, 6499]	7201	[8271, 4788]
224	[441, 442]	2550	[4100, 3308]	4876	[6500, 6501]	7202	[2062, 1866]
225	[443, 444]	2551	[4101, 487]	4877	[3991, 6502]	7203	[2936, 5045]
226	[445, 446]	2552	[4102, 1408]	4878	[6503, 3920]	7204	[2036, 5853]
227	[447, 448]	2553	[4103, 4104]	4879	[1725, 6504]	7205	[8272, 5445]
228	[449, 450]	2554	[1544, 3793]	4880	[6505, 1658]	7206	[5893, 5287]
229	[451, 452]	2555	[1702, 4105]	4881	[1232, 6506]	7207	[8273, 8274]
230	[453, 454]	2556	[4106, 4107]	4882	[6507, 4540]	7208	[7754, 2365]
231	[455, 456]	2557	[3880, 3157]	4883	[6508, 4321]	7209	[5973, 8027]
232	[457, 458]	2558	[1688, 949]	4884	[6509, 6510]	7210	[8275, 8276]
233	[459, 460]	2559	[3407, 4108]	4885	[6511, 4252]	7211	[8277, 5856]
234	[461, 462]	2560	[4109, 3001]	4886	[6512, 6513]	7212	[4835, 6128]
235	[463, 464]	2561	[3640, 1397]	4887	[6514, 6515]	7213	[8278, 2633]
236	[465, 466]	2562	[4110, 4111]	4888	[6516, 6517]	7214	[8279, 159]

237	[467, 30]	2563	[1132, 4112]	4889	[6518, 6519]	7215	[2109, 135]
238	[468, 469]	2564	[3736, 3169]	4890	[3742, 4011]	7216	[2873, 5250]
239	[470, 471]	2565	[4113, 3798]	4891	[6520, 6368]	7217	[807, 7624]
240	[472, 473]	2566	[4114, 1399]	4892	[6521, 6522]	7218	[2719, 5273]
241	[474, 475]	2567	[4115, 3662]	4893	[6323, 81]	7219	[5649, 2743]
242	[476, 477]	2568	[4116, 4117]	4894	[6523, 256]	7220	[8014, 4697]
243	[478, 479]	2569	[3604, 3852]	4895	[3616, 6519]	7221	[8280, 757]
244	[480, 288]	2570	[4118, 3303]	4896	[3410, 6524]	7222	[5905, 2373]
245	[481, 482]	2571	[4119, 3763]	4897	[6525, 3646]	7223	[8281, 607]
246	[483, 484]	2572	[4120, 4121]	4898	[6526, 6527]	7224	[8282, 8283]
247	[485, 486]	2573	[4122, 4123]	4899	[6528, 3919]	7225	[8284, 4830]
248	[487, 488]	2574	[4124, 1223]	4900	[6529, 1327]	7226	[8285, 1880]
249	[489, 490]	2575	[4125, 4126]	4901	[6530, 4007]	7227	[8286, 2184]
250	[491, 492]	2576	[4127, 4128]	4902	[6531, 6532]	7228	[5438, 8287]
251	[493, 494]	2577	[3095, 975]	4903	[6533, 4071]	7229	[2501, 6052]
252	[495, 496]	2578	[4129, 4130]	4904	[6534, 6535]	7230	[8288, 6176]
253	[497, 498]	2579	[3750, 4131]	4905	[4040, 1609]	7231	[7817, 8289]
254	[499, 500]	2580	[4132, 4031]	4906	[6536, 6537]	7232	[5500, 8143]
255	[501, 502]	2581	[1499, 4133]	4907	[6538, 6539]	7233	[781, 2098]
256	[503, 504]	2582	[4134, 4135]	4908	[1732, 4270]	7234	[8290, 2635]
257	[505, 183]	2583	[4136, 3173]	4909	[1201, 3085]	7235	[5262, 8291]
258	[506, 507]	2584	[4137, 4138]	4910	[6540, 1050]	7236	[8292, 5640]
259	[508, 509]	2585	[4139, 307]	4911	[6541, 6383]	7237	[8188, 7827]
260	[510, 511]	2586	[3991, 4140]	4912	[1613, 330]	7238	[7825, 4776]
261	[512, 513]	2587	[403, 1073]	4913	[3228, 1244]	7239	[8293, 8294]
262	[514, 515]	2588	[4141, 4142]	4914	[3230, 6542]	7240	[8295, 8296]
263	[516, 517]	2589	[4143, 4144]	4915	[4583, 1353]	7241	[8297, 707]
264	[518, 519]	2590	[4145, 4146]	4916	[3599, 6543]	7242	[2372, 5906]
265	[520, 521]	2591	[1037, 4147]	4917	[6544, 3257]	7243	[8298, 2034]
266	[522, 523]	2592	[461, 307]	4918	[6525, 1496]	7244	[8279, 1960]
267	[524, 525]	2593	[1124, 4148]	4919	[6545, 3816]	7245	[2275, 7636]
268	[526, 527]	2594	[4149, 4150]	4920	[3669, 1063]	7246	[5978, 2081]
269	[528, 529]	2595	[4151, 1525]	4921	[6546, 1085]	7247	[1964, 6236]
270	[530, 523]	2596	[1185, 955]	4922	[6547, 304]	7248	[4939, 8299]
271	[531, 532]	2597	[4152, 1672]	4923	[121, 6548]	7249	[8033, 5816]
272	[533, 534]	2598	[4153, 4154]	4924	[4551, 4243]	7250	[8300, 8301]
273	[535, 536]	2599	[4155, 4156]	4925	[6549, 6550]	7251	[6238, 5809]
274	[537, 538]	2600	[4157, 3139]	4926	[3829, 6551]	7252	[5836, 2480]
275	[539, 540]	2601	[3941, 3706]	4927	[1560, 4474]	7253	[8302, 205]
276	[541, 542]	2602	[4001, 1710]	4928	[6552, 6553]	7254	[8303, 2675]
277	[543, 544]	2603	[4158, 406]	4929	[4301, 3843]	7255	[4915, 4805]
278	[545, 546]	2604	[4159, 3857]	4930	[6554, 1526]	7256	[8304, 8305]
279	[547, 548]	2605	[1168, 4160]	4931	[6541, 3342]	7257	[8306, 8203]
280	[549, 550]	2606	[1374, 280]	4932	[6555, 3622]	7258	[916, 5118]

281	[551, 552]	2607	[1375, 1268]	4933	[3306, 3230]	7259	[47, 679]
282	[553, 177]	2608	[4161, 4162]	4934	[288, 1632]	7260	[2811, 8307]
283	[554, 555]	2609	[4163, 4164]	4935	[6556, 6275]	7261	[2398, 635]
284	[556, 557]	2610	[4165, 4166]	4936	[3988, 112]	7262	[6173, 5869]
285	[558, 559]	2611	[4167, 4168]	4937	[293, 1203]	7263	[8133, 2206]
286	[560, 561]	2612	[4169, 1621]	4938	[6557, 6558]	7264	[2115, 4995]
287	[562, 563]	2613	[3147, 4170]	4939	[6559, 4295]	7265	[40, 8308]
288	[564, 565]	2614	[1283, 4171]	4940	[6560, 1530]	7266	[2100, 5930]
289	[566, 567]	2615	[4172, 4173]	4941	[3160, 6561]	7267	[6027, 5627]
290	[568, 569]	2616	[4174, 1628]	4942	[3394, 6562]	7268	[7898, 4940]
291	[570, 571]	2617	[4175, 4176]	4943	[6563, 1484]	7269	[8309, 4715]
292	[572, 565]	2618	[3313, 4177]	4944	[6564, 6565]	7270	[2447, 2292]
293	[573, 574]	2619	[4178, 4179]	4945	[6566, 6567]	7271	[8310, 5156]
294	[575, 576]	2620	[4180, 4181]	4946	[6568, 6569]	7272	[8247, 5130]
295	[577, 578]	2621	[4182, 4183]	4947	[4115, 6570]	7273	[8311, 1799]
296	[579, 580]	2622	[4184, 4185]	4948	[6571, 6572]	7274	[8312, 8313]
297	[581, 582]	2623	[4186, 4187]	4949	[4547, 1523]	7275	[8314, 8159]
298	[583, 584]	2624	[4188, 4189]	4950	[6573, 27]	7276	[8315, 1894]
299	[585, 586]	2625	[4190, 4191]	4951	[6574, 3657]	7277	[8316, 8317]
300	[587, 588]	2626	[4192, 4187]	4952	[6575, 6576]	7278	[2870, 8318]
301	[566, 589]	2627	[4193, 4194]	4953	[6577, 1547]	7279	[8319, 8320]
302	[590, 591]	2628	[3442, 4195]	4954	[4190, 6578]	7280	[2642, 8129]
303	[592, 593]	2629	[4196, 1007]	4955	[3479, 4330]	7281	[5826, 5091]
304	[594, 595]	2630	[4197, 4198]	4956	[6332, 6579]	7282	[2711, 2866]
305	[596, 597]	2631	[4199, 4200]	4957	[6580, 6581]	7283	[2221, 7635]
306	[598, 599]	2632	[4201, 4202]	4958	[6582, 1291]	7284	[8321, 2793]
307	[600, 601]	2633	[362, 3411]	4959	[6583, 4502]	7285	[8322, 8323]
308	[602, 603]	2634	[4203, 4204]	4960	[1046, 6584]	7286	[2986, 5700]
309	[604, 605]	2635	[4205, 4206]	4961	[3653, 3313]	7287	[8324, 7707]
310	[606, 607]	2636	[4207, 4208]	4962	[3651, 3651]	7288	[236, 8088]
311	[608, 609]	2637	[4209, 3419]	4963	[3591, 6327]	7289	[5395, 5694]
312	[610, 611]	2638	[4210, 1171]	4964	[6585, 4505]	7290	[8325, 4871]
313	[612, 613]	2639	[3764, 1160]	4965	[6297, 6586]	7291	[8326, 7911]
314	[614, 615]	2640	[4211, 3229]	4966	[6587, 6588]	7292	[8327, 7690]
315	[616, 617]	2641	[3412, 4212]	4967	[6589, 1006]	7293	[2865, 6013]
316	[618, 619]	2642	[3399, 4213]	4968	[3392, 4620]	7294	[8328, 5469]
317	[620, 621]	2643	[4214, 320]	4969	[6377, 6590]	7295	[8329, 2638]
318	[622, 623]	2644	[380, 1569]	4970	[6591, 6592]	7296	[5813, 8216]
319	[624, 625]	2645	[4215, 4191]	4971	[6593, 1166]	7297	[6058, 2080]
320	[626, 627]	2646	[4216, 4217]	4972	[6594, 6487]	7298	[4990, 7905]
321	[628, 629]	2647	[4218, 3584]	4973	[6595, 6596]	7299	[8330, 8331]
322	[630, 631]	2648	[1659, 3355]	4974	[6597, 415]	7300	[8159, 5816]
323	[632, 633]	2649	[1755, 4219]	4975	[6501, 4130]	7301	[8332, 5894]
324	[634, 635]	2650	[4220, 3877]	4976	[6598, 1559]	7302	[7657, 5362]

325	[636, 637]	2651	[4221, 1389]	4977	[6599, 3793]	7303	[2979, 4689]
326	[638, 639]	2652	[4222, 371]	4978	[6600, 6601]	7304	[2082, 6087]
327	[640, 641]	2653	[4223, 4224]	4979	[6602, 4306]	7305	[2929, 638]
328	[642, 643]	2654	[4225, 4036]	4980	[6603, 1325]	7306	[5364, 2986]
329	[644, 595]	2655	[4226, 3821]	4981	[6604, 6605]	7307	[4710, 6190]
330	[645, 646]	2656	[3646, 4227]	4982	[3875, 6606]	7308	[8333, 2735]
331	[647, 648]	2657	[1642, 1081]	4983	[6607, 3759]	7309	[8334, 6174]
332	[649, 589]	2658	[4228, 3655]	4984	[6608, 963]	7310	[8335, 5640]
333	[650, 651]	2659	[4229, 1350]	4985	[6609, 6610]	7311	[2512, 7632]
334	[652, 653]	2660	[463, 315]	4986	[6611, 90]	7312	[8327, 1807]
335	[654, 655]	2661	[4137, 4230]	4987	[6378, 383]	7313	[2288, 2154]
336	[656, 657]	2662	[3823, 4231]	4988	[6523, 6612]	7314	[681, 2016]
337	[658, 659]	2663	[4232, 4233]	4989	[6613, 4217]	7315	[8336, 2382]
338	[660, 661]	2664	[4234, 3511]	4990	[3224, 6468]	7316	[8337, 902]
339	[662, 663]	2665	[4235, 3965]	4991	[6614, 6615]	7317	[7609, 1883]
340	[664, 665]	2666	[4236, 4237]	4992	[6616, 6617]	7318	[7614, 8017]
341	[666, 667]	2667	[4238, 4239]	4993	[6618, 6619]	7319	[8338, 5478]
342	[668, 669]	2668	[4240, 4112]	4994	[6620, 6456]	7320	[2618, 5391]
343	[670, 671]	2669	[4241, 4242]	4995	[3731, 3553]	7321	[8339, 2995]
344	[672, 673]	2670	[1212, 4243]	4996	[1015, 3618]	7322	[2063, 8340]
345	[674, 675]	2671	[3500, 3112]	4997	[6281, 4396]	7323	[2196, 5891]
346	[676, 677]	2672	[4244, 4245]	4998	[6621, 6622]	7324	[8341, 8274]
347	[678, 679]	2673	[4246, 1332]	4999	[6623, 3395]	7325	[2336, 61]
348	[680, 538]	2674	[4247, 359]	5000	[6624, 1355]	7326	[2140, 5966]
349	[572, 681]	2675	[4248, 3545]	5001	[3831, 6625]	7327	[5613, 8342]
350	[682, 683]	2676	[4249, 4250]	5002	[3388, 1092]	7328	[5557, 8343]
351	[684, 685]	2677	[3560, 3381]	5003	[6626, 6627]	7329	[2705, 8344]
352	[686, 687]	2678	[4251, 3613]	5004	[6628, 1525]	7330	[5121, 2711]
353	[688, 689]	2679	[4252, 1089]	5005	[6629, 6630]	7331	[191, 4972]
354	[235, 690]	2680	[4253, 4254]	5006	[3656, 971]	7332	[8060, 4843]
355	[691, 692]	2681	[1492, 4160]	5007	[6631, 6632]	7333	[2018, 2642]
356	[693, 694]	2682	[4255, 3811]	5008	[3330, 6633]	7334	[8345, 4639]
357	[695, 696]	2683	[4256, 4257]	5009	[6268, 3405]	7335	[8346, 8347]
358	[612, 697]	2684	[4258, 1531]	5010	[6634, 6635]	7336	[218, 5045]
359	[698, 233]	2685	[4259, 4260]	5011	[6636, 3249]	7337	[2861, 6098]
360	[699, 700]	2686	[4261, 4262]	5012	[4526, 1626]	7338	[5324, 6095]
361	[701, 702]	2687	[4263, 4264]	5013	[6637, 1739]	7339	[8348, 4722]
362	[551, 703]	2688	[4265, 4266]	5014	[6638, 6639]	7340	[8349, 8350]
363	[704, 705]	2689	[1288, 4267]	5015	[1364, 6640]	7341	[5228, 8351]
364	[706, 707]	2690	[4268, 4269]	5016	[6641, 3687]	7342	[5974, 5347]
365	[708, 709]	2691	[4270, 1538]	5017	[4124, 1308]	7343	[2481, 2582]
366	[710, 711]	2692	[3526, 3107]	5018	[6642, 6643]	7344	[7933, 5190]
367	[712, 713]	2693	[4271, 1501]	5019	[4280, 1708]	7345	[7957, 2891]
368	[714, 715]	2694	[4013, 3124]	5020	[1077, 6468]	7346	[8352, 8353]

369	[716, 717]	2695	[4272, 329]	5021	[6644, 6645]	7347	[5577, 2086]
370	[718, 719]	2696	[977, 348]	5022	[6646, 6647]	7348	[8354, 6195]
371	[720, 721]	2697	[4273, 3420]	5023	[3308, 3165]	7349	[41, 4876]
372	[722, 31]	2698	[3070, 4274]	5024	[3085, 1504]	7350	[8355, 8356]
373	[498, 723]	2699	[4130, 1259]	5025	[4314, 1720]	7351	[5889, 5075]
374	[724, 725]	2700	[4275, 4276]	5026	[6384, 6385]	7352	[5961, 777]
375	[726, 727]	2701	[4277, 4278]	5027	[6648, 1506]	7353	[5904, 2754]
376	[728, 729]	2702	[4279, 3028]	5028	[3348, 3098]	7354	[8357, 2734]
377	[730, 731]	2703	[3322, 4280]	5029	[6649, 1624]	7355	[8358, 4682]
378	[732, 733]	2704	[4281, 3137]	5030	[1129, 328]	7356	[8359, 55]
379	[734, 735]	2705	[4282, 4283]	5031	[3635, 3027]	7357	[6064, 8049]
380	[736, 737]	2706	[3249, 4284]	5032	[6650, 480]	7358	[2943, 7752]
381	[738, 739]	2707	[3915, 4285]	5033	[6651, 6652]	7359	[2436, 6050]
382	[740, 741]	2708	[4286, 4287]	5034	[6653, 6654]	7360	[8360, 4827]
383	[742, 743]	2709	[3634, 4288]	5035	[6457, 3889]	7361	[8361, 8362]
384	[744, 745]	2710	[4289, 4290]	5036	[3707, 6655]	7362	[39, 528]
385	[746, 747]	2711	[4291, 1580]	5037	[1255, 6386]	7363	[8363, 8364]
386	[748, 749]	2712	[4292, 4293]	5038	[6656, 1586]	7364	[2236, 2883]
387	[750, 751]	2713	[4294, 986]	5039	[6657, 6658]	7365	[7627, 5766]
388	[752, 753]	2714	[4274, 4295]	5040	[1085, 24]	7366	[619, 5930]
389	[754, 755]	2715	[4296, 4297]	5041	[6659, 6660]	7367	[8365, 5698]
390	[756, 138]	2716	[4298, 4299]	5042	[6661, 417]	7368	[7744, 7756]
391	[757, 758]	2717	[4300, 4301]	5043	[6662, 3152]	7369	[8366, 8367]
392	[759, 760]	2718	[4302, 4303]	5044	[6663, 6660]	7370	[8368, 2870]
393	[761, 762]	2719	[4304, 4305]	5045	[6664, 4350]	7371	[1962, 4724]
394	[763, 764]	2720	[3805, 4306]	5046	[1568, 3807]	7372	[4816, 8222]
395	[765, 766]	2721	[4307, 3513]	5047	[6665, 1637]	7373	[1965, 4940]
396	[767, 768]	2722	[4308, 4119]	5048	[6666, 6667]	7374	[1767, 2471]
397	[769, 770]	2723	[4309, 3636]	5049	[3045, 6384]	7375	[8369, 5867]
398	[771, 772]	2724	[4310, 4311]	5050	[1626, 6385]	7376	[2401, 8370]
399	[773, 774]	2725	[4312, 4313]	5051	[6668, 1494]	7377	[8371, 2362]
400	[683, 775]	2726	[4314, 1475]	5052	[3455, 1472]	7378	[5843, 2543]
401	[776, 777]	2727	[1345, 4315]	5053	[3220, 3009]	7379	[2420, 2601]
402	[778, 524]	2728	[4289, 4316]	5054	[6369, 4538]	7380	[8372, 8373]
403	[31, 779]	2729	[4317, 4318]	5055	[6669, 1566]	7381	[8374, 5668]
404	[780, 781]	2730	[4319, 4320]	5056	[1011, 6670]	7382	[5087, 8375]
405	[217, 782]	2731	[4321, 4322]	5057	[330, 6671]	7383	[772, 7946]
406	[783, 784]	2732	[4323, 1545]	5058	[6672, 4563]	7384	[5371, 1949]
407	[785, 786]	2733	[4324, 4325]	5059	[6673, 6674]	7385	[8376, 8377]
408	[787, 788]	2734	[4326, 3937]	5060	[3227, 6675]	7386	[8378, 8347]
409	[789, 790]	2735	[1392, 126]	5061	[1053, 6676]	7387	[8379, 4985]
410	[791, 792]	2736	[1241, 4327]	5062	[6677, 6678]	7388	[2220, 7634]
411	[793, 794]	2737	[4328, 1077]	5063	[3643, 6679]	7389	[1947, 497]
412	[795, 796]	2738	[4329, 4330]	5064	[6680, 3949]	7390	[547, 5621]

413	[797, 798]	2739	[1578, 429]	5065	[3760, 3110]	7391	[5015, 5650]
414	[799, 800]	2740	[4331, 3162]	5066	[1083, 1532]	7392	[7948, 8380]
415	[801, 802]	2741	[3983, 4332]	5067	[6681, 6682]	7393	[6141, 7913]
416	[803, 236]	2742	[4333, 4028]	5068	[3576, 6683]	7394	[8381, 5802]
417	[804, 805]	2743	[4334, 3967]	5069	[6684, 3106]	7395	[8382, 7782]
418	[806, 807]	2744	[4335, 4336]	5070	[6685, 4171]	7396	[5339, 4781]
419	[808, 809]	2745	[4337, 4338]	5071	[6686, 4389]	7397	[7826, 8189]
420	[810, 811]	2746	[4339, 1648]	5072	[6687, 6688]	7398	[1781, 7807]
421	[812, 813]	2747	[1327, 4340]	5073	[6689, 6690]	7399	[7944, 2501]
422	[814, 815]	2748	[3342, 105]	5074	[1014, 3617]	7400	[2250, 1845]
423	[816, 817]	2749	[4341, 3882]	5075	[316, 6691]	7401	[5673, 2475]
424	[818, 819]	2750	[4342, 4343]	5076	[4412, 4332]	7402	[8383, 5801]
425	[702, 820]	2751	[4344, 1106]	5077	[6692, 3305]	7403	[2438, 2131]
426	[821, 822]	2752	[1384, 4345]	5078	[6693, 4488]	7404	[4969, 4769]
427	[823, 824]	2753	[1432, 4307]	5079	[6560, 4346]	7405	[8384, 8385]
428	[825, 826]	2754	[4346, 4331]	5080	[6694, 6695]	7406	[7879, 2370]
429	[827, 828]	2755	[4092, 1023]	5081	[6696, 6697]	7407	[2981, 8386]
430	[829, 830]	2756	[4347, 3216]	5082	[6698, 957]	7408	[8387, 8388]
431	[831, 832]	2757	[4348, 1380]	5083	[6699, 6700]	7409	[2773, 6028]
432	[833, 834]	2758	[4349, 4350]	5084	[3678, 4607]	7410	[4980, 5199]
433	[835, 836]	2759	[4351, 4352]	5085	[6701, 6702]	7411	[1987, 7825]
434	[837, 838]	2760	[4353, 3974]	5086	[6703, 6704]	7412	[8354, 244]
435	[839, 840]	2761	[4354, 4329]	5087	[6388, 3265]	7413	[1906, 5039]
436	[841, 842]	2762	[4355, 4356]	5088	[3902, 6705]	7414	[8111, 7877]
437	[843, 844]	2763	[4357, 4358]	5089	[6706, 459]	7415	[8389, 8390]
438	[12, 845]	2764	[1369, 3693]	5090	[4051, 6707]	7416	[8206, 6046]
439	[846, 847]	2765	[4228, 3713]	5091	[6708, 3805]	7417	[7621, 4936]
440	[848, 849]	2766	[4359, 4360]	5092	[4395, 3810]	7418	[2746, 6197]
441	[850, 851]	2767	[96, 4361]	5093	[6709, 6710]	7419	[8391, 8392]
442	[852, 853]	2768	[4362, 4363]	5094	[6711, 3719]	7420	[5795, 8393]
443	[854, 855]	2769	[4364, 4365]	5095	[6631, 3834]	7421	[8254, 5702]
444	[856, 857]	2770	[3447, 3462]	5096	[6554, 4013]	7422	[7761, 2743]
445	[858, 859]	2771	[4366, 4367]	5097	[6430, 1102]	7423	[156, 5569]
446	[860, 678]	2772	[4368, 4369]	5098	[6712, 6713]	7424	[5516, 2788]
447	[861, 862]	2773	[3476, 4370]	5099	[116, 6530]	7425	[4749, 608]
448	[845, 863]	2774	[4371, 3164]	5100	[6714, 3849]	7426	[2632, 2727]
449	[864, 179]	2775	[4372, 4373]	5101	[3151, 6715]	7427	[8394, 8395]
450	[865, 866]	2776	[4374, 4375]	5102	[4383, 6716]	7428	[8396, 5717]
451	[867, 868]	2777	[4376, 4377]	5103	[6471, 1331]	7429	[8397, 8398]
452	[869, 632]	2778	[1612, 329]	5104	[4014, 3125]	7430	[8399, 8400]
453	[870, 871]	2779	[4378, 4284]	5105	[1550, 6709]	7431	[4780, 216]
454	[872, 873]	2780	[1117, 4379]	5106	[6717, 6718]	7432	[4891, 8172]
455	[874, 875]	2781	[4380, 3372]	5107	[4294, 6277]	7433	[8401, 54]
456	[876, 877]	2782	[3677, 4381]	5108	[6719, 3337]	7434	[8402, 8076]

457	[878, 879]	2783	[4382, 1606]	5109	[6720, 6721]	7435	[8403, 6234]
458	[880, 881]	2784	[4383, 4384]	5110	[6512, 6722]	7436	[5355, 4992]
459	[882, 881]	2785	[4385, 4386]	5111	[6723, 3123]	7437	[5095, 7890]
460	[883, 884]	2786	[4387, 3168]	5112	[6724, 4156]	7438	[8404, 5359]
461	[885, 602]	2787	[405, 3790]	5113	[6725, 1043]	7439	[2339, 8405]
462	[886, 887]	2788	[4388, 4389]	5114	[6726, 3463]	7440	[8406, 5862]
463	[888, 618]	2789	[4390, 4391]	5115	[6727, 6678]	7441	[810, 8307]
464	[889, 890]	2790	[1149, 4392]	5116	[6728, 3261]	7442	[8407, 6135]
465	[891, 195]	2791	[4393, 4394]	5117	[4474, 3941]	7443	[4686, 642]
466	[892, 893]	2792	[4395, 4396]	5118	[6729, 6730]	7444	[8408, 8409]
467	[894, 895]	2793	[4397, 4398]	5119	[6731, 6697]	7445	[2611, 933]
468	[896, 897]	2794	[4399, 4400]	5120	[6732, 3761]	7446	[5306, 5125]
469	[898, 899]	2795	[4401, 3702]	5121	[3570, 4042]	7447	[8410, 1965]
470	[900, 901]	2796	[4402, 3685]	5122	[6733, 6443]	7448	[6228, 856]
471	[902, 903]	2797	[1086, 1584]	5123	[6734, 6735]	7449	[5258, 685]
472	[904, 905]	2798	[4403, 4404]	5124	[6736, 3142]	7450	[8411, 816]
473	[906, 907]	2799	[4405, 3954]	5125	[6737, 6479]	7451	[8370, 8000]
474	[908, 909]	2800	[3585, 3024]	5126	[4368, 6738]	7452	[8412, 2178]
475	[910, 130]	2801	[4406, 3556]	5127	[6640, 6739]	7453	[5762, 4892]
476	[911, 912]	2802	[1512, 3730]	5128	[6740, 1663]	7454	[7725, 7606]
477	[913, 914]	2803	[4407, 1431]	5129	[1199, 113]	7455	[8413, 5937]
478	[915, 916]	2804	[4408, 4358]	5130	[3133, 6741]	7456	[8414, 8415]
479	[917, 918]	2805	[4409, 1133]	5131	[1326, 6742]	7457	[8416, 705]
480	[919, 920]	2806	[4410, 4411]	5132	[6743, 3107]	7458	[2579, 6101]
481	[921, 613]	2807	[1077, 3225]	5133	[3473, 3153]	7459	[8417, 8418]
482	[922, 923]	2808	[4412, 3984]	5134	[6574, 971]	7460	[8282, 6089]
483	[924, 700]	2809	[4413, 1066]	5135	[6267, 6744]	7461	[4794, 5650]
484	[925, 926]	2810	[324, 3196]	5136	[6745, 6746]	7462	[8419, 2232]
485	[927, 928]	2811	[4414, 1551]	5137	[6747, 6748]	7463	[8420, 8120]
486	[929, 930]	2812	[4415, 4416]	5138	[1680, 4250]	7464	[8421, 2042]
487	[931, 932]	2813	[4417, 4418]	5139	[3197, 4141]	7465	[5645, 1977]
488	[933, 702]	2814	[990, 4419]	5140	[1076, 3224]	7466	[8422, 8423]
489	[934, 935]	2815	[4420, 4421]	5141	[6749, 6750]	7467	[4804, 2871]
490	[936, 584]	2816	[4422, 4423]	5142	[6751, 3486]	7468	[8072, 791]
491	[937, 938]	2817	[1553, 4424]	5143	[3350, 1638]	7469	[5073, 2939]
492	[939, 940]	2818	[4425, 4426]	5144	[6662, 6715]	7470	[573, 8012]
493	[941, 942]	2819	[1336, 949]	5145	[1330, 6472]	7471	[8424, 5644]
494	[943, 944]	2820	[470, 4427]	5146	[4537, 6370]	7472	[8425, 8250]
495	[945, 946]	2821	[4428, 3785]	5147	[6752, 4314]	7473	[5008, 2894]
496	[947, 948]	2822	[4429, 4430]	5148	[3547, 6753]	7474	[8426, 2946]
497	[949, 950]	2823	[4431, 1754]	5149	[6754, 276]	7475	[225, 6195]
498	[951, 952]	2824	[4432, 3232]	5150	[6755, 1370]	7476	[761, 5647]
499	[953, 954]	2825	[1466, 3867]	5151	[6756, 6757]	7477	[8225, 5235]
500	[955, 956]	2826	[3934, 3565]	5152	[6758, 6759]	7478	[8427, 8428]

501	[957, 958]	2827	[1463, 124]	5153	[6760, 6761]	7479	[8429, 8225]
502	[959, 960]	2828	[4433, 4434]	5154	[4118, 3128]	7480	[8430, 8431]
503	[961, 962]	2829	[1436, 4435]	5155	[6762, 1528]	7481	[8432, 6185]
504	[963, 964]	2830	[1061, 294]	5156	[6763, 6764]	7482	[2180, 5619]
505	[965, 966]	2831	[3879, 4436]	5157	[373, 1072]	7483	[6226, 5918]
506	[967, 368]	2832	[4437, 3881]	5158	[6765, 6766]	7484	[4658, 5055]
507	[258, 968]	2833	[3234, 3211]	5159	[6641, 6767]	7485	[2303, 8433]
508	[969, 970]	2834	[4438, 4439]	5160	[6768, 3057]	7486	[1863, 8434]
509	[971, 972]	2835	[1721, 4303]	5161	[6769, 1107]	7487	[2291, 2448]
510	[973, 974]	2836	[4440, 4441]	5162	[6770, 3033]	7488	[5005, 814]
511	[975, 976]	2837	[1505, 4442]	5163	[6771, 3857]	7489	[8435, 8436]
512	[977, 978]	2838	[4443, 4444]	5164	[1630, 3897]	7490	[2133, 2677]
513	[979, 980]	2839	[4445, 3311]	5165	[6772, 6773]	7491	[2761, 8210]
514	[981, 982]	2840	[3167, 4446]	5166	[6480, 3456]	7492	[666, 5614]
515	[983, 984]	2841	[4447, 290]	5167	[3231, 6774]	7493	[4750, 4919]
516	[985, 986]	2842	[4448, 3611]	5168	[6775, 6776]	7494	[5988, 8194]
517	[987, 988]	2843	[3551, 4449]	5169	[3556, 6777]	7495	[8437, 2766]
518	[989, 990]	2844	[4450, 4336]	5170	[6778, 6779]	7496	[8438, 1910]
519	[991, 992]	2845	[4089, 3046]	5171	[6780, 6766]	7497	[8439, 8440]
520	[993, 994]	2846	[3456, 4451]	5172	[6781, 6745]	7498	[8441, 4660]
521	[995, 996]	2847	[4452, 122]	5173	[4522, 4523]	7499	[7685, 8056]
522	[997, 998]	2848	[4453, 1703]	5174	[6782, 1168]	7500	[8442, 2090]
523	[999, 1000]	2849	[4454, 4455]	5175	[6783, 3946]	7501	[8443, 4880]
524	[1001, 1002]	2850	[1333, 4456]	5176	[3252, 6784]	7502	[7920, 5410]
525	[1003, 1004]	2851	[4457, 4458]	5177	[1332, 1189]	7503	[8444, 139]
526	[1005, 1006]	2852	[4459, 4460]	5178	[4077, 6785]	7504	[2416, 5531]
527	[1007, 1008]	2853	[4461, 4462]	5179	[3037, 6786]	7505	[8445, 7952]
528	[1009, 1010]	2854	[4361, 3013]	5180	[6787, 3926]	7506	[7605, 4903]
529	[80, 1011]	2855	[4463, 4464]	5181	[3831, 3319]	7507	[8446, 904]
530	[1012, 1013]	2856	[4465, 1420]	5182	[3639, 1396]	7508	[8447, 5224]
531	[1014, 1015]	2857	[4466, 3131]	5183	[3034, 1381]	7509	[2062, 917]
532	[1016, 1017]	2858	[4467, 3175]	5184	[4456, 6788]	7510	[8448, 2301]
533	[1018, 1019]	2859	[4468, 4318]	5185	[3910, 6789]	7511	[8449, 5158]
534	[1020, 1021]	2860	[4469, 3383]	5186	[3964, 6790]	7512	[2232, 2088]
535	[1022, 1023]	2861	[4470, 4471]	5187	[6338, 3624]	7513	[5665, 629]
536	[1024, 1025]	2862	[1448, 1431]	5188	[954, 1713]	7514	[8450, 4959]
537	[1026, 1027]	2863	[4472, 3403]	5189	[4566, 1266]	7515	[8451, 8075]
538	[1028, 1029]	2864	[3111, 3767]	5190	[6791, 6550]	7516	[945, 4786]
539	[1030, 1031]	2865	[4473, 3209]	5191	[6792, 4577]	7517	[2120, 2445]
540	[1032, 1033]	2866	[4042, 4474]	5192	[6793, 6794]	7518	[661, 8027]
541	[1034, 1035]	2867	[3868, 4475]	5193	[965, 1591]	7519	[4843, 8211]
542	[1036, 1037]	2868	[4476, 3072]	5194	[6305, 123]	7520	[5418, 5887]
543	[419, 1038]	2869	[4477, 4478]	5195	[3130, 6795]	7521	[5280, 5073]
544	[1039, 1040]	2870	[3452, 4479]	5196	[6796, 4226]	7522	[8452, 2521]

545	[1041, 1042]	2871	[4480, 478]	5197	[6797, 3318]	7523	[6095, 5350]
546	[1043, 1044]	2872	[4481, 4482]	5198	[6798, 3963]	7524	[5055, 7656]
547	[1045, 1046]	2873	[3690, 1455]	5199	[6799, 4391]	7525	[8453, 5945]
548	[1047, 1048]	2874	[4483, 1080]	5200	[3517, 3633]	7526	[8454, 8455]
549	[1049, 1050]	2875	[4484, 4485]	5201	[6800, 6334]	7527	[8456, 7857]
550	[1051, 1052]	2876	[4486, 4487]	5202	[6801, 4088]	7528	[8315, 7757]
551	[1053, 1054]	2877	[4488, 4489]	5203	[6802, 324]	7529	[8457, 5802]
552	[1055, 1056]	2878	[4490, 4491]	5204	[3625, 4427]	7530	[616, 8219]
553	[1057, 475]	2879	[4492, 4380]	5205	[6803, 4186]	7531	[5303, 528]
554	[1058, 1059]	2880	[3007, 425]	5206	[4064, 3258]	7532	[8458, 8459]
555	[1060, 1061]	2881	[4493, 1700]	5207	[3352, 1123]	7533	[8460, 8461]
556	[1062, 1063]	2882	[4494, 4101]	5208	[6804, 3710]	7534	[6209, 7848]
557	[1064, 1065]	2883	[4495, 1486]	5209	[6805, 6806]	7535	[8462, 6228]
558	[1066, 1067]	2884	[4496, 3007]	5210	[3016, 1367]	7536	[2769, 2243]
559	[1068, 1069]	2885	[4497, 4060]	5211	[6807, 989]	7537	[6178, 8351]
560	[1070, 1071]	2886	[3719, 1019]	5212	[6808, 3015]	7538	[8463, 2812]
561	[1072, 1073]	2887	[4498, 1017]	5213	[1635, 6809]	7539	[2904, 5959]
562	[1074, 1075]	2888	[3597, 1233]	5214	[1704, 4234]	7540	[2964, 2336]
563	[1076, 1077]	2889	[4499, 4500]	5215	[6810, 6811]	7541	[8464, 7667]
564	[1078, 1079]	2890	[4501, 1527]	5216	[3286, 6812]	7542	[8465, 5241]
565	[1080, 1081]	2891	[4502, 4503]	5217	[6813, 6458]	7543	[6166, 5493]
566	[1082, 1083]	2892	[4174, 4033]	5218	[6814, 4528]	7544	[4998, 4741]
567	[1045, 1084]	2893	[4504, 4505]	5219	[6815, 6816]	7545	[2906, 7777]
568	[1085, 1086]	2894	[4506, 4507]	5220	[6817, 6818]	7546	[7643, 2994]
569	[304, 440]	2895	[1075, 3338]	5221	[6819, 6820]	7547	[5212, 7906]
570	[1087, 1088]	2896	[19, 3350]	5222	[6821, 6822]	7548	[8466, 627]
571	[1089, 1090]	2897	[4508, 1066]	5223	[1319, 1406]	7549	[8467, 8468]
572	[1091, 1092]	2898	[4509, 3213]	5224	[6823, 4617]	7550	[1773, 8469]
573	[1093, 1094]	2899	[4510, 4033]	5225	[6824, 6825]	7551	[5305, 816]
574	[1095, 1096]	2900	[4511, 3592]	5226	[1592, 6826]	7552	[4803, 4986]
575	[1097, 1098]	2901	[4512, 4513]	5227	[3250, 4403]	7553	[5156, 8109]
576	[1099, 1100]	2902	[4514, 3355]	5228	[6288, 4467]	7554	[8470, 8471]
577	[1101, 1102]	2903	[3592, 3324]	5229	[6827, 4360]	7555	[8472, 8473]
578	[1103, 1104]	2904	[3487, 1229]	5230	[3993, 6828]	7556	[8251, 6159]
579	[1105, 1106]	2905	[4515, 4516]	5231	[6829, 6617]	7557	[5701, 5806]
580	[1107, 1108]	2906	[466, 4517]	5232	[3874, 6415]	7558	[8474, 845]
581	[1109, 1110]	2907	[4518, 4519]	5233	[6562, 6830]	7559	[1976, 228]
582	[1111, 1112]	2908	[3486, 4234]	5234	[6510, 6831]	7560	[7696, 2955]
583	[1113, 1114]	2909	[4520, 4521]	5235	[6832, 3311]	7561	[8475, 8476]
584	[1115, 1116]	2910	[4522, 3282]	5236	[6833, 6834]	7562	[5012, 8344]
585	[1117, 1118]	2911	[4523, 3283]	5237	[6614, 6835]	7563	[2344, 2877]
586	[1119, 1120]	2912	[4524, 495]	5238	[6836, 6837]	7564	[5822, 8021]
587	[1121, 1122]	2913	[4525, 4526]	5239	[6838, 6839]	7565	[5197, 52]
588	[1123, 995]	2914	[4527, 4528]	5240	[6840, 6841]	7566	[13, 7824]

589	[1124, 1125]	2915	[1712, 420]	5241	[6842, 6843]	7567	[797, 8142]
590	[1126, 1127]	2916	[4529, 4530]	5242	[6723, 6844]	7568	[4937, 8477]
591	[1128, 1129]	2917	[1455, 446]	5243	[3636, 4113]	7569	[1762, 8214]
592	[257, 1130]	2918	[4531, 4532]	5244	[6845, 6846]	7570	[7680, 8186]
593	[1131, 1132]	2919	[4533, 1400]	5245	[6847, 6848]	7571	[5948, 2931]
594	[1133, 369]	2920	[4534, 3286]	5246	[6849, 6850]	7572	[2334, 8478]
595	[1134, 1135]	2921	[3718, 1018]	5247	[6481, 4451]	7573	[5376, 5532]
596	[1136, 1137]	2922	[4535, 1394]	5248	[6611, 3220]	7574	[5097, 5165]
597	[1138, 1139]	2923	[4336, 1512]	5249	[433, 3563]	7575	[8479, 6174]
598	[1013, 1140]	2924	[3573, 4536]	5250	[6761, 6280]	7576	[2725, 133]
599	[1141, 1142]	2925	[4537, 4538]	5251	[339, 6851]	7577	[2645, 7867]
600	[1143, 1144]	2926	[4539, 4540]	5252	[6852, 6853]	7578	[8480, 8481]
601	[1145, 1146]	2927	[1193, 4541]	5253	[1271, 3761]	7579	[2437, 2130]
602	[1147, 1148]	2928	[4542, 4543]	5254	[6854, 6855]	7580	[4963, 7749]
603	[1149, 1150]	2929	[4544, 1216]	5255	[1132, 6856]	7581	[8301, 6203]
604	[1151, 1152]	2930	[1042, 3468]	5256	[6857, 1141]	7582	[1988, 7672]
605	[1153, 1154]	2931	[4545, 1255]	5257	[4435, 6858]	7583	[6100, 2248]
606	[1155, 1156]	2932	[4149, 4546]	5258	[1696, 1113]	7584	[7701, 8482]
607	[1157, 1158]	2933	[4121, 4502]	5259	[6859, 6860]	7585	[2860, 4981]
608	[1159, 1160]	2934	[4547, 4162]	5260	[3254, 3957]	7586	[2915, 8483]
609	[1161, 1162]	2935	[4198, 4548]	5261	[17, 6861]	7587	[2776, 5548]
610	[1163, 1164]	2936	[3470, 1568]	5262	[6476, 1243]	7588	[8484, 665]
611	[1165, 1166]	2937	[4549, 1519]	5263	[6862, 6863]	7589	[8485, 8024]
612	[1167, 1168]	2938	[4550, 3014]	5264	[6584, 6835]	7590	[5175, 2089]
613	[1169, 1170]	2939	[4551, 1213]	5265	[6864, 6865]	7591	[8486, 8487]
614	[1171, 1172]	2940	[3657, 972]	5266	[6866, 6867]	7592	[2840, 5761]
615	[1088, 1173]	2941	[4552, 3]	5267	[6868, 360]	7593	[249, 8488]
616	[1174, 1175]	2942	[4553, 4554]	5268	[6869, 6870]	7594	[4899, 8489]
617	[1176, 1177]	2943	[4555, 1125]	5269	[6871, 6872]	7595	[8108, 2909]
618	[1178, 1179]	2944	[4556, 4253]	5270	[6873, 1165]	7596	[5623, 2320]
619	[99, 1180]	2945	[4557, 4558]	5271	[6874, 6875]	7597	[8490, 8343]
620	[1181, 1182]	2946	[4559, 4560]	5272	[6876, 1135]	7598	[2698, 5359]
621	[1183, 1184]	2947	[288, 4561]	5273	[6877, 3039]	7599	[652, 2604]
622	[1185, 1186]	2948	[1426, 4562]	5274	[4305, 3502]	7600	[8491, 8131]
623	[1187, 1188]	2949	[4563, 3665]	5275	[3050, 6418]	7601	[8492, 4866]
624	[1189, 1190]	2950	[1232, 4564]	5276	[6878, 6879]	7602	[5798, 513]
625	[1191, 1192]	2951	[4565, 1588]	5277	[3979, 6880]	7603	[8493, 7419]
626	[1193, 1194]	2952	[4212, 1178]	5278	[6881, 6882]	7604	[7078, 1280]
627	[1195, 1196]	2953	[4566, 3913]	5279	[6883, 6884]	7605	[8494, 7210]
628	[1197, 1198]	2954	[1579, 4567]	5280	[6885, 4551]	7606	[8495, 7014]
629	[1199, 1200]	2955	[4568, 4521]	5281	[253, 372]	7607	[4429, 6586]
630	[1201, 1202]	2956	[4277, 1418]	5282	[3040, 3080]	7608	[6414, 91]
631	[1061, 1203]	2957	[4569, 313]	5283	[6886, 3689]	7609	[3633, 1127]
632	[328, 1204]	2958	[4570, 4571]	5284	[6887, 6888]	7610	[4000, 8496]

633	[1205, 1206]	2959	[4572, 4573]	5285	[6889, 6890]	7611	[468, 8497]
634	[1207, 495]	2960	[4574, 4575]	5286	[4348, 3034]	7612	[8498, 7253]
635	[1208, 1209]	2961	[4576, 3926]	5287	[6891, 3947]	7613	[8499, 4097]
636	[1210, 1211]	2962	[4577, 1024]	5288	[101, 6892]	7614	[4362, 6565]
637	[1212, 1213]	2963	[4578, 4579]	5289	[6893, 3688]	7615	[7334, 4361]
638	[1214, 1215]	2964	[4580, 3994]	5290	[6894, 6895]	7616	[6648, 4442]
639	[1216, 1217]	2965	[4581, 4479]	5291	[4339, 6896]	7617	[3799, 1149]
640	[1218, 1085]	2966	[4582, 4583]	5292	[3225, 3043]	7618	[8500, 8501]
641	[1219, 1220]	2967	[1126, 3634]	5293	[6897, 6898]	7619	[8502, 6439]
642	[1221, 1222]	2968	[1018, 4584]	5294	[6899, 4432]	7620	[321, 4115]
643	[1223, 1224]	2969	[4585, 3851]	5295	[6900, 6464]	7621	[3268, 293]
644	[1225, 1226]	2970	[4072, 4586]	5296	[6901, 1536]	7622	[6948, 6313]
645	[1227, 1228]	2971	[4587, 1497]	5297	[6367, 6902]	7623	[8503, 8504]
646	[1229, 1230]	2972	[4552, 4588]	5298	[4324, 394]	7624	[8505, 6954]
647	[1231, 1232]	2973	[4589, 3415]	5299	[6903, 6776]	7625	[8506, 7517]
648	[1233, 1234]	2974	[322, 3662]	5300	[6904, 6905]	7626	[3370, 4140]
649	[1235, 1236]	2975	[319, 4590]	5301	[6906, 4343]	7627	[6495, 3531]
650	[1237, 1238]	2976	[4591, 4592]	5302	[6907, 3335]	7628	[3828, 1311]
651	[1239, 1240]	2977	[4593, 3460]	5303	[3032, 6908]	7629	[7368, 6667]
652	[1241, 1242]	2978	[4594, 4595]	5304	[6909, 3056]	7630	[6951, 386]
653	[1243, 1244]	2979	[452, 4596]	5305	[1082, 1531]	7631	[3748, 3768]
654	[1245, 1058]	2980	[4597, 962]	5306	[6910, 3321]	7632	[1625, 8507]
655	[1246, 1247]	2981	[4598, 994]	5307	[6911, 6912]	7633	[6932, 77]
656	[1248, 1249]	2982	[1252, 4599]	5308	[6913, 6914]	7634	[8508, 4233]
657	[1250, 1251]	2983	[4600, 4601]	5309	[3481, 4110]	7635	[8509, 6919]
658	[1252, 1253]	2984	[4602, 4603]	5310	[6915, 1211]	7636	[8510, 8511]
659	[1254, 1255]	2985	[4604, 4605]	5311	[6916, 6917]	7637	[8512, 6604]
660	[1256, 1257]	2986	[4606, 1446]	5312	[6918, 6919]	7638	[3719, 4584]
661	[1258, 1259]	2987	[4607, 4608]	5313	[6920, 4444]	7639	[4471, 3852]
662	[1260, 1261]	2988	[4609, 4610]	5314	[4240, 6856]	7640	[1006, 1330]
663	[1262, 1263]	2989	[4611, 1338]	5315	[6921, 6922]	7641	[8513, 1187]
664	[1264, 1265]	2990	[4612, 4613]	5316	[6923, 445]	7642	[8514, 8515]
665	[1266, 1267]	2991	[4614, 4615]	5317	[6924, 6925]	7643	[7070, 487]
666	[280, 1268]	2992	[4616, 4070]	5318	[1590, 6926]	7644	[7153, 3410]
667	[1269, 1270]	2993	[3386, 4273]	5319	[6927, 6928]	7645	[7120, 4098]
668	[1271, 1032]	2994	[4424, 4617]	5320	[4453, 4105]	7646	[3595, 8516]
669	[1272, 1273]	2995	[1245, 950]	5321	[6929, 6930]	7647	[7315, 4375]
670	[1274, 457]	2996	[4618, 3759]	5322	[6931, 3109]	7648	[357, 7078]
671	[1275, 1276]	2997	[448, 4338]	5323	[6932, 6933]	7649	[6836, 8517]
672	[1277, 1278]	2998	[4619, 4138]	5324	[6934, 1489]	7650	[6564, 4363]
673	[1279, 1280]	2999	[4620, 4621]	5325	[4292, 6935]	7651	[8518, 1425]
674	[1281, 1282]	3000	[3319, 4622]	5326	[4100, 3164]	7652	[7531, 3253]
675	[1283, 1284]	3001	[4623, 4624]	5327	[3317, 363]	7653	[8519, 390]
676	[1285, 1286]	3002	[647, 4625]	5328	[1683, 4274]	7654	[8520, 8521]

677	[1287, 1288]	3003	[520, 4626]	5329	[3132, 4000]	7655	[8522, 8515]
678	[1289, 490]	3004	[2059, 4627]	5330	[6666, 6453]	7656	[8523, 3093]
679	[1290, 1291]	3005	[4628, 4629]	5331	[6312, 1051]	7657	[6696, 7489]
680	[1292, 1293]	3006	[4630, 1905]	5332	[6936, 6470]	7658	[1065, 4241]
681	[1294, 379]	3007	[4631, 1887]	5333	[6937, 3451]	7659	[8524, 3836]
682	[1295, 1296]	3008	[4632, 4633]	5334	[6938, 6939]	7660	[1100, 4518]
683	[1297, 1298]	3009	[1980, 2215]	5335	[4251, 3710]	7661	[6, 1434]
684	[1299, 1300]	3010	[4634, 2046]	5336	[4, 6940]	7662	[1660, 4433]
685	[1301, 1302]	3011	[4635, 4636]	5337	[3318, 6625]	7663	[3033, 1380]
686	[1303, 1304]	3012	[4637, 4638]	5338	[6941, 3408]	7664	[8525, 1141]
687	[1305, 1306]	3013	[4639, 1911]	5339	[6942, 6943]	7665	[6938, 8526]
688	[1307, 1308]	3014	[4640, 4641]	5340	[6944, 4605]	7666	[4265, 1404]
689	[1022, 1309]	3015	[4642, 4643]	5341	[4561, 6945]	7667	[8527, 7090]
690	[462, 308]	3016	[4644, 2507]	5342	[6946, 6947]	7668	[8528, 1329]
691	[1310, 1311]	3017	[4645, 1843]	5343	[6948, 1051]	7669	[8529, 3537]
692	[1312, 1313]	3018	[4646, 4647]	5344	[6949, 4314]	7670	[8530, 6928]
693	[1314, 1315]	3019	[4648, 4649]	5345	[6950, 483]	7671	[7586, 393]
694	[1316, 1317]	3020	[4650, 4651]	5346	[6951, 6395]	7672	[8531, 66]
695	[1318, 1319]	3021	[4652, 2313]	5347	[6952, 1684]	7673	[1654, 3800]
696	[1320, 1321]	3022	[4653, 4654]	5348	[6493, 4270]	7674	[3512, 8532]
697	[1322, 1323]	3023	[4655, 4656]	5349	[6953, 6954]	7675	[8533, 1276]
698	[1324, 1325]	3024	[2259, 844]	5350	[1489, 3038]	7676	[1416, 1152]
699	[1326, 1327]	3025	[878, 4657]	5351	[1097, 6955]	7677	[8534, 6986]
700	[1328, 1329]	3026	[4658, 217]	5352	[3981, 6956]	7678	[8535, 1704]
701	[1330, 1331]	3027	[4659, 4660]	5353	[6957, 6958]	7679	[8536, 1678]
702	[1332, 1333]	3028	[4661, 4662]	5354	[1441, 6959]	7680	[3929, 407]
703	[1334, 1335]	3029	[2639, 686]	5355	[3859, 4249]	7681	[8537, 6553]
704	[1336, 1245]	3030	[4663, 2398]	5356	[6960, 6961]	7682	[3510, 1559]
705	[1337, 1338]	3031	[885, 2791]	5357	[3711, 345]	7683	[7059, 7111]
706	[1339, 1340]	3032	[231, 1846]	5358	[6962, 1358]	7684	[3444, 6476]
707	[1341, 482]	3033	[2081, 646]	5359	[3364, 6963]	7685	[3315, 8538]
708	[1342, 1343]	3034	[4664, 4665]	5360	[1691, 1392]	7686	[8539, 7007]
709	[1344, 1345]	3035	[4666, 4667]	5361	[6964, 6898]	7687	[7339, 7523]
710	[1346, 1347]	3036	[4668, 4669]	5362	[6965, 3741]	7688	[3292, 8540]
711	[1348, 1346]	3037	[4670, 1837]	5363	[6272, 4606]	7689	[6950, 7254]
712	[1349, 1350]	3038	[2520, 4671]	5364	[6966, 4562]	7690	[8541, 6372]
713	[1351, 1352]	3039	[4672, 2679]	5365	[1372, 6967]	7691	[8542, 403]
714	[1353, 1354]	3040	[4673, 4674]	5366	[4162, 1524]	7692	[1190, 6788]
715	[1355, 1356]	3041	[4675, 2080]	5367	[1397, 4583]	7693	[7005, 7107]
716	[1357, 1358]	3042	[4676, 129]	5368	[3619, 1171]	7694	[358, 1600]
717	[1359, 92]	3043	[558, 2164]	5369	[6968, 1282]	7695	[1308, 1224]
718	[1360, 1361]	3044	[4677, 2691]	5370	[6969, 6970]	7696	[3889, 3470]
719	[1362, 1363]	3045	[4678, 2826]	5371	[3890, 6971]	7697	[7399, 1404]
720	[1364, 1365]	3046	[4679, 4680]	5372	[6540, 6972]	7698	[1015, 8543]

721	[962, 1321]	3047	[4681, 4682]	5373	[6973, 3632]	7699	[8544, 7379]
722	[1366, 1367]	3048	[4683, 4684]	5374	[3155, 283]	7700	[7075, 8545]
723	[950, 1059]	3049	[690, 4685]	5375	[6974, 3801]	7701	[67, 6581]
724	[1368, 1369]	3050	[4686, 2525]	5376	[6975, 6976]	7702	[8546, 4568]
725	[1370, 1371]	3051	[4687, 541]	5377	[1511, 3729]	7703	[6665, 420]
726	[1372, 1002]	3052	[506, 184]	5378	[6977, 27]	7704	[3091, 4061]
727	[1373, 1021]	3053	[2628, 2490]	5379	[4570, 6978]	7705	[1713, 4327]
728	[1374, 1375]	3054	[1, 4688]	5380	[6979, 6658]	7706	[495, 3348]
729	[1376, 1377]	3055	[4689, 4690]	5381	[6980, 6482]	7707	[8547, 1417]
730	[1378, 1379]	3056	[4691, 4692]	5382	[6981, 6982]	7708	[6321, 1387]
731	[1380, 1381]	3057	[881, 571]	5383	[471, 6983]	7709	[279, 1375]
732	[1382, 265]	3058	[4693, 4694]	5384	[6494, 3154]	7710	[6310, 6682]
733	[1383, 267]	3059	[631, 4695]	5385	[460, 3057]	7711	[6307, 334]
734	[1384, 1385]	3060	[4696, 2509]	5386	[4150, 6984]	7712	[8548, 8549]
735	[1386, 1387]	3061	[4697, 4630]	5387	[6985, 6986]	7713	[8550, 3058]
736	[1388, 1389]	3062	[4698, 4661]	5388	[4025, 6987]	7714	[7469, 410]
737	[1175, 1390]	3063	[4699, 2452]	5389	[3609, 117]	7715	[1209, 6705]
738	[1391, 1392]	3064	[4700, 4701]	5390	[6988, 3289]	7716	[6719, 1075]
739	[1393, 1394]	3065	[4702, 2740]	5391	[6989, 3415]	7717	[8551, 4356]
740	[1226, 1395]	3066	[4703, 4704]	5392	[1198, 6400]	7718	[8552, 6301]
741	[1396, 1397]	3067	[4705, 4706]	5393	[493, 6990]	7719	[7175, 1330]
742	[1398, 1399]	3068	[2592, 4707]	5394	[3373, 6334]	7720	[8553, 3259]
743	[1400, 1401]	3069	[4708, 4709]	5395	[6455, 6991]	7721	[1401, 3602]
744	[1402, 1403]	3070	[4710, 4711]	5396	[6992, 1351]	7722	[8554, 450]
745	[1404, 1405]	3071	[4712, 4713]	5397	[4254, 1024]	7723	[8555, 4212]
746	[336, 1406]	3072	[4714, 4715]	5398	[6993, 6994]	7724	[3825, 3974]
747	[1407, 1408]	3073	[2312, 4716]	5399	[6995, 3785]	7725	[6276, 6534]
748	[1409, 1410]	3074	[4717, 4656]	5400	[6996, 4150]	7726	[8556, 6588]
749	[1411, 1412]	3075	[2056, 4718]	5401	[6997, 1669]	7727	[3796, 8557]
750	[1413, 1414]	3076	[4719, 4720]	5402	[344, 6296]	7728	[8558, 8559]
751	[1415, 1416]	3077	[4721, 4722]	5403	[6998, 6351]	7729	[8560, 8561]
752	[1417, 1418]	3078	[4723, 4724]	5404	[6999, 7000]	7730	[4364, 8562]
753	[1419, 1420]	3079	[1948, 4725]	5405	[7001, 4464]	7731	[6322, 8563]
754	[1421, 1422]	3080	[4726, 2981]	5406	[1420, 313]	7732	[8564, 7136]
755	[1423, 1424]	3081	[4727, 4728]	5407	[4497, 6707]	7733	[4270, 7591]
756	[1425, 1426]	3082	[4729, 4730]	5408	[7002, 7003]	7734	[8535, 3486]
757	[103, 1278]	3083	[2710, 2225]	5409	[6467, 7004]	7735	[6402, 3571]
758	[1427, 1428]	3084	[4731, 4732]	5410	[3307, 6542]	7736	[8565, 8501]
759	[1429, 1430]	3085	[4733, 2822]	5411	[1684, 4260]	7737	[3490, 8566]
760	[1431, 1432]	3086	[4734, 4735]	5412	[7005, 6675]	7738	[4000, 4126]
761	[1433, 1434]	3087	[4736, 4737]	5413	[4607, 4446]	7739	[8567, 7206]
762	[1435, 26]	3088	[4738, 1819]	5414	[4255, 1534]	7740	[1694, 8568]
763	[1436, 1437]	3089	[2259, 4739]	5415	[6804, 3613]	7741	[8569, 7282]
764	[1438, 1439]	3090	[4740, 4741]	5416	[7006, 6601]	7742	[8570, 8571]

765	[1440, 1441]	3091	[4742, 4743]	5417	[4373, 7007]	7743	[8572, 7460]
766	[1442, 1443]	3092	[4744, 4745]	5418	[3853, 6690]	7744	[3369, 3991]
767	[1444, 1445]	3093	[4746, 4747]	5419	[3612, 3725]	7745	[7086, 6917]
768	[1446, 1447]	3094	[4748, 2006]	5420	[7008, 3368]	7746	[4253, 4577]
769	[1448, 1449]	3095	[4749, 1808]	5421	[7009, 1115]	7747	[8573, 1443]
770	[1450, 1451]	3096	[4750, 4751]	5422	[7010, 3391]	7748	[7564, 3980]
771	[1452, 1453]	3097	[4752, 4753]	5423	[3129, 4006]	7749	[8574, 4420]
772	[1454, 1115]	3098	[4754, 4755]	5424	[7011, 3507]	7750	[8575, 6832]
773	[1455, 1456]	3099	[938, 4756]	5425	[3483, 299]	7751	[8576, 8577]
774	[1457, 1458]	3100	[555, 2321]	5426	[3483, 4517]	7752	[477, 6561]
775	[1459, 1460]	3101	[4757, 4758]	5427	[314, 7012]	7753	[6732, 1032]
776	[1210, 1461]	3102	[4759, 4760]	5428	[6364, 6315]	7754	[423, 3867]
777	[1462, 970]	3103	[4761, 4762]	5429	[1153, 6499]	7755	[6501, 1258]
778	[1463, 1464]	3104	[4763, 4708]	5430	[7013, 7014]	7756	[8578, 1120]
779	[1367, 993]	3105	[4764, 4765]	5431	[6390, 6506]	7757	[7505, 3768]
780	[1465, 1466]	3106	[4766, 4767]	5432	[7015, 480]	7758	[1454, 8579]
781	[1467, 1468]	3107	[2658, 4768]	5433	[3973, 1000]	7759	[8580, 8581]
782	[1469, 481]	3108	[914, 4654]	5434	[3393, 4621]	7760	[8582, 7389]
783	[1470, 1471]	3109	[2132, 4769]	5435	[7016, 7017]	7761	[1592, 8583]
784	[1472, 1473]	3110	[1822, 4770]	5436	[1551, 6710]	7762	[8584, 6321]
785	[1474, 1475]	3111	[4771, 1825]	5437	[1401, 3199]	7763	[3114, 3314]
786	[1476, 1477]	3112	[2736, 4772]	5438	[7018, 483]	7764	[8585, 3053]
787	[307, 1478]	3113	[555, 4773]	5439	[3531, 6579]	7765	[8586, 8587]
788	[1479, 1480]	3114	[4760, 4774]	5440	[7019, 1636]	7766	[6799, 8588]
789	[1481, 1482]	3115	[4775, 2324]	5441	[3791, 7020]	7767	[8589, 8590]
790	[1483, 1484]	3116	[1988, 4776]	5442	[3046, 4113]	7768	[8591, 7403]
791	[1485, 1486]	3117	[4777, 4778]	5443	[3541, 4536]	7769	[982, 7350]
792	[1487, 437]	3118	[4779, 4780]	5444	[1324, 7021]	7770	[8592, 6445]
793	[1488, 1489]	3119	[4781, 4782]	5445	[7022, 6853]	7771	[3982, 8593]
794	[1490, 1491]	3120	[4783, 4784]	5446	[7023, 1148]	7772	[8594, 7507]
795	[1167, 1492]	3121	[4785, 2854]	5447	[7024, 284]	7773	[6548, 3223]
796	[1493, 1494]	3122	[1802, 4786]	5448	[3401, 3884]	7774	[1294, 6289]
797	[1495, 1496]	3123	[4787, 4788]	5449	[7025, 1451]	7775	[6923, 1455]
798	[1497, 1498]	3124	[4789, 2393]	5450	[7026, 1287]	7776	[8595, 4101]
799	[1499, 1500]	3125	[807, 4790]	5451	[7027, 3586]	7777	[8596, 8597]
800	[1501, 455]	3126	[4791, 4732]	5452	[7028, 6899]	7778	[6797, 3831]
801	[1502, 1503]	3127	[1921, 2709]	5453	[7029, 7030]	7779	[6834, 3792]
802	[1202, 1504]	3128	[4792, 4793]	5454	[7031, 7032]	7780	[8598, 8599]
803	[1505, 1506]	3129	[2142, 2210]	5455	[7033, 3299]	7781	[7177, 6925]
804	[1507, 77]	3130	[4794, 4795]	5456	[7034, 4620]	7782	[8600, 367]
805	[1508, 1265]	3131	[4796, 2947]	5457	[4533, 3946]	7783	[8601, 7189]
806	[1509, 1510]	3132	[871, 4797]	5458	[1476, 4426]	7784	[4223, 8602]
807	[1511, 1512]	3133	[2682, 630]	5459	[3262, 7035]	7785	[8603, 111]
808	[1513, 1514]	3134	[4798, 2073]	5460	[7036, 4019]	7786	[1546, 3887]

809	[1515, 1516]	3135	[4799, 4800]	5461	[3832, 6269]	7787	[7565, 1062]
810	[1517, 1518]	3136	[4801, 517]	5462	[7037, 3287]	7788	[4428, 6408]
811	[1519, 1520]	3137	[2955, 2936]	5463	[7038, 3678]	7789	[8604, 8605]
812	[1521, 1522]	3138	[162, 136]	5464	[7039, 7040]	7790	[7341, 1545]
813	[1523, 1524]	3139	[4802, 2230]	5465	[7041, 7042]	7791	[7130, 4293]
814	[1525, 1526]	3140	[4803, 2655]	5466	[1573, 7043]	7792	[8606, 8607]
815	[1527, 1528]	3141	[4804, 2880]	5467	[7044, 6375]	7793	[8608, 7269]
816	[1529, 1530]	3142	[4805, 714]	5468	[7045, 1749]	7794	[4022, 7004]
817	[1531, 1532]	3143	[2901, 4806]	5469	[7046, 7047]	7795	[6878, 8609]
818	[1533, 1534]	3144	[4807, 4808]	5470	[4341, 7048]	7796	[3866, 7363]
819	[1535, 1536]	3145	[4809, 4797]	5471	[6646, 3135]	7797	[8610, 1371]
820	[1537, 1538]	3146	[1878, 2094]	5472	[7049, 3842]	7798	[3559, 1582]
821	[1539, 1540]	3147	[4810, 4811]	5473	[3790, 6716]	7799	[4152, 8611]
822	[1541, 1542]	3148	[4812, 4813]	5474	[7050, 3686]	7800	[1021, 8612]
823	[1543, 1544]	3149	[802, 4814]	5475	[1719, 7051]	7801	[3057, 8613]
824	[1545, 992]	3150	[805, 38]	5476	[6661, 3198]	7802	[8614, 8615]
825	[1546, 1547]	3151	[4815, 4816]	5477	[6572, 7052]	7803	[1433, 438]
826	[1548, 1549]	3152	[4817, 2552]	5478	[7053, 3336]	7804	[8616, 1719]
827	[1550, 1551]	3153	[2333, 4818]	5479	[4492, 3371]	7805	[3631, 6437]
828	[1552, 1553]	3154	[4819, 4820]	5480	[7054, 7055]	7806	[8617, 8618]
829	[1554, 1555]	3155	[4821, 556]	5481	[7056, 6826]	7807	[8563, 81]
830	[1556, 1557]	3156	[4822, 4823]	5482	[4209, 7057]	7808	[359, 1601]
831	[1558, 1164]	3157	[4824, 4825]	5483	[7058, 4542]	7809	[3998, 8619]
832	[1559, 1560]	3158	[4826, 4827]	5484	[1031, 4436]	7810	[3777, 6442]
833	[1561, 1562]	3159	[4828, 4829]	5485	[6618, 435]	7811	[3660, 3660]
834	[1563, 1564]	3160	[4830, 4831]	5486	[7059, 1228]	7812	[8620, 8621]
835	[1565, 1566]	3161	[4832, 2821]	5487	[6411, 3222]	7813	[4291, 4567]
836	[1567, 1568]	3162	[4811, 4833]	5488	[1578, 376]	7814	[3455, 3897]
837	[1569, 1570]	3163	[4834, 2932]	5489	[344, 3818]	7815	[6536, 7095]
838	[1571, 1572]	3164	[4835, 920]	5490	[7060, 3585]	7816	[6675, 7108]
839	[1573, 1574]	3165	[4836, 4694]	5491	[6476, 3228]	7817	[3921, 4082]
840	[1575, 1576]	3166	[4723, 1963]	5492	[1470, 6636]	7818	[6361, 6481]
841	[1577, 1578]	3167	[4697, 1904]	5493	[7061, 7062]	7819	[7109, 1169]
842	[1579, 1580]	3168	[4837, 2075]	5494	[3577, 7063]	7820	[8622, 8623]
843	[1581, 1582]	3169	[4838, 2565]	5495	[7064, 7065]	7821	[1136, 8624]
844	[1583, 1090]	3170	[2400, 4839]	5496	[7066, 436]	7822	[6482, 6497]
845	[24, 1584]	3171	[4840, 4841]	5497	[7067, 7068]	7823	[1729, 464]
846	[1585, 1586]	3172	[891, 4842]	5498	[405, 4383]	7824	[8625, 8626]
847	[1587, 1588]	3173	[4843, 193]	5499	[7069, 4184]	7825	[7190, 6905]
848	[1589, 1590]	3174	[4844, 4845]	5500	[7070, 7071]	7826	[4282, 8627]
849	[1591, 1592]	3175	[621, 4846]	5501	[6436, 1755]	7827	[8628, 1561]
850	[1593, 1594]	3176	[1818, 4847]	5502	[7072, 6922]	7828	[1405, 3474]
851	[1595, 1596]	3177	[4848, 4849]	5503	[6335, 6273]	7829	[7123, 6846]
852	[1597, 1544]	3178	[843, 4739]	5504	[7073, 1634]	7830	[4049, 3030]

853	[1598, 1599]	3179	[4850, 4851]	5505	[254, 373]	7831	[7355, 6655]
854	[1600, 1601]	3180	[2825, 2099]	5506	[3488, 1230]	7832	[1074, 3337]
855	[1602, 1603]	3181	[4852, 4853]	5507	[3762, 4061]	7833	[4035, 7478]
856	[1604, 1605]	3182	[4854, 783]	5508	[7074, 375]	7834	[8629, 6666]
857	[1606, 1607]	3183	[4855, 4856]	5509	[6386, 3353]	7835	[6802, 3195]
858	[1319, 1608]	3184	[2794, 4857]	5510	[82, 1625]	7836	[8630, 8517]
859	[1609, 1610]	3185	[4858, 4859]	5511	[3377, 6504]	7837	[4106, 8566]
860	[1611, 97]	3186	[921, 697]	5512	[7075, 7076]	7838	[3094, 6851]
861	[1612, 1613]	3187	[4860, 1943]	5513	[7077, 7078]	7839	[1116, 3808]
862	[1614, 1615]	3188	[4861, 617]	5514	[3429, 7079]	7840	[6273, 3981]
863	[1616, 1617]	3189	[4862, 4863]	5515	[6782, 1492]	7841	[6669, 7369]
864	[1618, 1619]	3190	[2982, 4864]	5516	[4184, 4507]	7842	[7347, 1134]
865	[1620, 1621]	3191	[4865, 4866]	5517	[7080, 6970]	7843	[8631, 7196]
866	[1622, 1623]	3192	[4867, 2404]	5518	[6411, 7081]	7844	[415, 3177]
867	[1360, 64]	3193	[2694, 800]	5519	[1676, 3246]	7845	[7448, 443]
868	[1624, 1625]	3194	[4868, 4869]	5520	[3871, 3095]	7846	[6808, 80]
869	[1626, 1627]	3195	[4870, 4871]	5521	[1009, 7082]	7847	[6900, 7250]
870	[1628, 1629]	3196	[4872, 2188]	5522	[7083, 7084]	7848	[3693, 8632]
871	[1630, 1472]	3197	[4873, 4874]	5523	[7085, 951]	7849	[8633, 3461]
872	[1631, 1632]	3198	[2679, 2173]	5524	[1687, 4613]	7850	[6793, 8634]
873	[1633, 1634]	3199	[2495, 2950]	5525	[7086, 7087]	7851	[292, 8635]
874	[1635, 1636]	3200	[2496, 1763]	5526	[7088, 3678]	7852	[6689, 3854]
875	[1637, 421]	3201	[4875, 4876]	5527	[7089, 4131]	7853	[6572, 8636]
876	[1638, 1639]	3202	[4877, 4878]	5528	[6652, 7090]	7854	[8637, 8638]
877	[1389, 1640]	3203	[4879, 4880]	5529	[3278, 3118]	7855	[7307, 3573]
878	[1641, 1642]	3204	[4881, 2224]	5530	[7091, 7092]	7856	[8591, 8639]
879	[1643, 1644]	3205	[4882, 4883]	5531	[3701, 1020]	7857	[8640, 8599]
880	[1645, 1646]	3206	[2246, 4884]	5532	[7093, 1271]	7858	[8641, 6865]
881	[1647, 1648]	3207	[4885, 4672]	5533	[7037, 6812]	7859	[4470, 3604]
882	[1649, 1089]	3208	[4886, 4887]	5534	[7094, 3707]	7860	[8642, 8643]
883	[1650, 1651]	3209	[4888, 4889]	5535	[7095, 3296]	7861	[8644, 7440]
884	[1652, 1653]	3210	[4748, 2335]	5536	[973, 7096]	7862	[8645, 1561]
885	[1654, 1149]	3211	[4890, 4891]	5537	[7097, 7098]	7863	[8494, 3333]
886	[1655, 1656]	3212	[2797, 4892]	5538	[7099, 6640]	7864	[6800, 465]
887	[1657, 1658]	3213	[4893, 1975]	5539	[7100, 3510]	7865	[1035, 1463]
888	[1659, 99]	3214	[2097, 4894]	5540	[6466, 6305]	7866	[3103, 8538]
889	[1660, 291]	3215	[2175, 4895]	5541	[7101, 4529]	7867	[8646, 7306]
890	[1661, 1662]	3216	[1817, 4793]	5542	[4303, 3630]	7868	[8647, 312]
891	[1479, 1663]	3217	[2887, 4896]	5543	[1016, 7102]	7869	[7065, 3488]
892	[1664, 1665]	3218	[2341, 4897]	5544	[7103, 6517]	7870	[8648, 3515]
893	[952, 1666]	3219	[4898, 4899]	5545	[4074, 1182]	7871	[8649, 1622]
894	[1667, 1668]	3220	[4900, 2534]	5546	[7104, 6652]	7872	[8650, 6388]
895	[1669, 1670]	3221	[4901, 4902]	5547	[4441, 3361]	7873	[6724, 8651]
896	[1671, 1672]	3222	[4903, 4904]	5548	[7105, 7106]	7874	[8652, 8653]

897	[1673, 1674]	3223	[4905, 858]	5549	[7107, 7108]	7875	[3533, 7353]
898	[1675, 1676]	3224	[4906, 4907]	5550	[7060, 3023]	7876	[6421, 8654]
899	[1677, 1678]	3225	[4908, 4677]	5551	[7109, 3258]	7877	[8570, 7494]
900	[1679, 1680]	3226	[4909, 4910]	5552	[7110, 1270]	7878	[8655, 8656]
901	[1391, 125]	3227	[4911, 4912]	5553	[1227, 7111]	7879	[4001, 3872]
902	[453, 1681]	3228	[4913, 4914]	5554	[7112, 1263]	7880	[1178, 6413]
903	[1682, 1683]	3229	[4915, 4916]	5555	[7113, 1681]	7881	[6937, 6261]
904	[1684, 1685]	3230	[4917, 4913]	5556	[7114, 4299]	7882	[8657, 7202]
905	[1686, 1687]	3231	[4918, 4919]	5557	[6264, 254]	7883	[8658, 3399]
906	[1688, 1245]	3232	[4649, 4920]	5558	[7115, 6604]	7884	[8659, 3827]
907	[1689, 1690]	3233	[4921, 4922]	5559	[7116, 1343]	7885	[4450, 1511]
908	[1691, 125]	3234	[4923, 1803]	5560	[6756, 1028]	7886	[7371, 8627]
909	[1692, 1693]	3235	[4924, 4925]	5561	[950, 7117]	7887	[7357, 7408]
910	[1694, 1695]	3236	[675, 4926]	5562	[7118, 4500]	7888	[6866, 8660]
911	[1225, 1696]	3237	[2141, 4927]	5563	[7119, 4312]	7889	[3968, 6429]
912	[1697, 1698]	3238	[2818, 4928]	5564	[1293, 6895]	7890	[8661, 3567]
913	[1699, 1700]	3239	[4929, 4930]	5565	[7120, 6448]	7891	[3909, 4324]
914	[1701, 1596]	3240	[2015, 2816]	5566	[3338, 7121]	7892	[1206, 8590]
915	[1702, 1703]	3241	[2319, 930]	5567	[7122, 7123]	7893	[8662, 29]
916	[1704, 1705]	3242	[4931, 2392]	5568	[7124, 6376]	7894	[4236, 325]
917	[1706, 1184]	3243	[4852, 4932]	5569	[6667, 6454]	7895	[6435, 4530]
918	[1707, 1708]	3244	[4933, 1927]	5570	[7125, 7126]	7896	[3167, 4608]
919	[1709, 1710]	3245	[4934, 4935]	5571	[7127, 6676]	7897	[8663, 6867]
920	[1711, 1712]	3246	[4936, 4937]	5572	[4382, 6674]	7898	[7396, 6738]
921	[1713, 1242]	3247	[2168, 526]	5573	[7128, 4489]	7899	[7396, 4369]
922	[1714, 459]	3248	[4938, 4939]	5574	[3241, 1333]	7900	[8664, 3150]
923	[1710, 1715]	3249	[4940, 4941]	5575	[285, 262]	7901	[4020, 1623]
924	[1716, 1717]	3250	[564, 681]	5576	[7129, 69]	7902	[106, 1644]
925	[1718, 1719]	3251	[4942, 4943]	5577	[4304, 3501]	7903	[3301, 6848]
926	[1474, 1720]	3252	[4944, 4945]	5578	[7130, 6935]	7904	[6656, 3922]
927	[1721, 1722]	3253	[4946, 2229]	5579	[3685, 4242]	7905	[4217, 1549]
928	[1723, 1724]	3254	[4947, 4948]	5580	[6971, 458]	7906	[8665, 8666]
929	[1725, 1726]	3255	[4949, 4950]	5581	[1655, 6475]	7907	[3182, 3202]
930	[1727, 1728]	3256	[4951, 2939]	5582	[7131, 1728]	7908	[7482, 8667]
931	[1729, 315]	3257	[717, 2434]	5583	[7132, 7133]	7909	[8668, 3174]
932	[1730, 1731]	3258	[4952, 4784]	5584	[4319, 6295]	7910	[3571, 7526]
933	[1732, 1537]	3259	[4953, 4629]	5585	[3749, 1578]	7911	[8669, 8670]
934	[1733, 1734]	3260	[4954, 4955]	5586	[6398, 7134]	7912	[8671, 4006]
935	[1735, 1736]	3261	[2786, 1867]	5587	[7135, 7136]	7913	[8672, 7510]
936	[1737, 1738]	3262	[4956, 2667]	5588	[1531, 7137]	7914	[4161, 1523]
937	[349, 1739]	3263	[544, 1885]	5589	[981, 6910]	7915	[3271, 3019]
938	[83, 1064]	3264	[4957, 149]	5590	[7138, 4194]	7916	[7236, 4519]
939	[1740, 1741]	3265	[4958, 4959]	5591	[435, 7139]	7917	[7329, 6789]
940	[1742, 1743]	3266	[548, 4960]	5592	[7140, 3352]	7918	[8673, 8674]

941	[1744, 1745]	3267	[4961, 1960]	5593	[7141, 6323]	7919	[8675, 4164]
942	[1746, 1747]	3268	[4962, 2198]	5594	[3356, 3544]	7920	[6792, 4254]
943	[1748, 1749]	3269	[904, 196]	5595	[1516, 361]	7921	[8676, 8656]
944	[1750, 1751]	3270	[241, 4893]	5596	[6834, 7020]	7922	[8677, 6597]
945	[1752, 1753]	3271	[4963, 4964]	5597	[7142, 1713]	7923	[8678, 8679]
946	[1754, 1755]	3272	[4965, 4966]	5598	[7143, 7144]	7924	[1243, 8680]
947	[1756, 1757]	3273	[4939, 4967]	5599	[3043, 7145]	7925	[1311, 6551]
948	[1758, 1759]	3274	[4968, 2127]	5600	[6481, 3457]	7926	[8681, 8682]
949	[1760, 1761]	3275	[4969, 2133]	5601	[6735, 3441]	7927	[8683, 8684]
950	[1762, 1763]	3276	[4970, 4971]	5602	[6360, 3629]	7928	[4390, 8588]
951	[1764, 601]	3277	[2332, 4926]	5603	[6259, 3417]	7929	[377, 8685]
952	[1765, 1766]	3278	[2658, 4972]	5604	[3175, 4357]	7930	[6964, 8686]
953	[1767, 790]	3279	[4973, 4974]	5605	[3996, 6982]	7931	[4414, 6709]
954	[1768, 1769]	3280	[2314, 4975]	5606	[1530, 4331]	7932	[8687, 6552]
955	[1770, 1771]	3281	[4976, 4977]	5607	[4031, 6390]	7933	[969, 8688]
956	[1772, 1773]	3282	[4978, 2935]	5608	[6319, 6940]	7934	[4087, 8689]
957	[1774, 1775]	3283	[4979, 1784]	5609	[3664, 7146]	7935	[8690, 7514]
958	[1776, 1777]	3284	[4980, 2478]	5610	[7147, 4460]	7936	[8691, 8619]
959	[1778, 1779]	3285	[4981, 2009]	5611	[7148, 253]	7937	[89, 3220]
960	[1780, 1781]	3286	[4982, 4983]	5612	[7149, 7150]	7938	[8692, 6884]
961	[1782, 1783]	3287	[4984, 4985]	5613	[4196, 3757]	7939	[7545, 955]
962	[1784, 1785]	3288	[4986, 190]	5614	[7151, 4200]	7940	[8693, 3090]
963	[1786, 1787]	3289	[4987, 192]	5615	[378, 6289]	7941	[8694, 1419]
964	[1788, 1789]	3290	[631, 802]	5616	[7152, 3312]	7942	[8694, 4465]
965	[1790, 1791]	3291	[2756, 1900]	5617	[3436, 1181]	7943	[8605, 6706]
966	[1792, 1793]	3292	[4988, 1996]	5618	[3490, 4107]	7944	[3406, 1652]
967	[1794, 716]	3293	[4989, 4990]	5619	[3623, 1556]	7945	[3083, 8695]
968	[1795, 507]	3294	[4991, 4992]	5620	[7153, 3944]	7946	[1453, 4111]
969	[1796, 1797]	3295	[4993, 4994]	5621	[7154, 4258]	7947	[3608, 17]
970	[1798, 1799]	3296	[4995, 2997]	5622	[3932, 4376]	7948	[8696, 1126]
971	[1800, 896]	3297	[525, 4996]	5623	[1197, 1665]	7949	[4158, 302]
972	[1801, 1802]	3298	[2464, 2366]	5624	[3414, 4063]	7950	[8697, 8698]
973	[662, 1803]	3299	[4997, 4998]	5625	[3246, 7155]	7951	[4167, 958]
974	[1804, 1805]	3300	[4999, 5000]	5626	[3652, 3651]	7952	[8699, 6779]
975	[1806, 1807]	3301	[2026, 4624]	5627	[1140, 1196]	7953	[8700, 3329]
976	[1808, 1809]	3302	[2974, 2142]	5628	[7156, 998]	7954	[8701, 8702]
977	[1810, 1811]	3303	[5001, 5002]	5629	[292, 7157]	7955	[7434, 4285]
978	[1812, 1813]	3304	[4982, 5003]	5630	[6328, 1236]	7956	[8703, 8704]
979	[1814, 1815]	3305	[5004, 5005]	5631	[7158, 479]	7957	[1291, 6630]
980	[1816, 1817]	3306	[5006, 2355]	5632	[7159, 3706]	7958	[8705, 8621]
981	[1818, 1819]	3307	[5007, 739]	5633	[7160, 3610]	7959	[3666, 3917]
982	[1820, 1821]	3308	[5008, 563]	5634	[322, 6570]	7960	[4555, 4148]
983	[1822, 1823]	3309	[5009, 5010]	5635	[7161, 1510]	7961	[3738, 3709]
984	[1824, 1825]	3310	[4624, 849]	5636	[7162, 4224]	7962	[6971, 3235]

985	[1826, 1827]	3311	[2545, 211]	5637	[7163, 3022]	7963	[7199, 3371]
986	[1828, 1829]	3312	[5011, 5012]	5638	[7164, 4079]	7964	[1365, 6739]
987	[1830, 1831]	3313	[5013, 5014]	5639	[430, 7165]	7965	[6993, 3536]
988	[1832, 1833]	3314	[2107, 2588]	5640	[7166, 6318]	7966	[3606, 3695]
989	[1834, 1835]	3315	[2533, 2237]	5641	[4590, 3050]	7967	[3941, 7094]
990	[1836, 1837]	3316	[5015, 4795]	5642	[7167, 6722]	7968	[8706, 8707]
991	[1838, 1839]	3317	[5016, 2725]	5643	[7168, 253]	7969	[6537, 3296]
992	[1840, 919]	3318	[5017, 5018]	5644	[7169, 7170]	7970	[6511, 1649]
993	[1841, 1842]	3319	[2342, 5019]	5645	[4215, 6578]	7971	[4032, 3417]
994	[1843, 1844]	3320	[5020, 2409]	5646	[7171, 6735]	7972	[4153, 952]
995	[1845, 1766]	3321	[4695, 4814]	5647	[7172, 1616]	7973	[7254, 484]
996	[1846, 1847]	3322	[252, 5021]	5648	[443, 7173]	7974	[8708, 6627]
997	[1848, 1849]	3323	[1931, 527]	5649	[6546, 23]	7975	[1556, 4202]
998	[1850, 1851]	3324	[5022, 5023]	5650	[7174, 3908]	7976	[3428, 1501]
999	[1852, 540]	3325	[5024, 5025]	5651	[6589, 7175]	7977	[3543, 3357]
1000	[1853, 1854]	3326	[5026, 5014]	5652	[7176, 7177]	7978	[8709, 1727]
1001	[1855, 499]	3327	[5027, 5028]	5653	[7178, 486]	7979	[8710, 8711]
1002	[1856, 1857]	3328	[5029, 867]	5654	[7179, 7180]	7980	[1637, 8712]
1003	[1858, 762]	3329	[5030, 869]	5655	[4594, 1619]	7981	[6432, 4370]
1004	[1859, 1860]	3330	[5031, 2216]	5656	[7181, 4504]	7982	[3139, 7031]
1005	[1861, 1862]	3331	[5032, 2536]	5657	[1260, 6325]	7983	[8696, 3633]
1006	[1863, 1864]	3332	[2930, 5033]	5658	[1750, 6777]	7984	[8713, 6773]
1007	[1865, 1866]	3333	[5034, 1901]	5659	[1465, 423]	7985	[8714, 69]
1008	[1867, 1868]	3334	[1820, 5035]	5660	[7182, 3820]	7986	[3075, 4147]
1009	[723, 1869]	3335	[2243, 5036]	5661	[7183, 7184]	7987	[8715, 3837]
1010	[1870, 1871]	3336	[909, 62]	5662	[4297, 1201]	7988	[1602, 6888]
1011	[160, 1872]	3337	[5037, 2777]	5663	[7140, 6386]	7989	[6763, 4091]
1012	[1873, 1874]	3338	[1981, 2748]	5664	[6649, 82]	7990	[8716, 7361]
1013	[632, 1875]	3339	[5038, 5039]	5665	[1058, 7117]	7991	[8717, 7160]
1014	[765, 1876]	3340	[5040, 5041]	5666	[3918, 7185]	7992	[8718, 3141]
1015	[1877, 1878]	3341	[5042, 210]	5667	[7186, 7187]	7993	[7264, 6537]
1016	[1879, 245]	3342	[5043, 5044]	5668	[7188, 1293]	7994	[3470, 3806]
1017	[1880, 1881]	3343	[5045, 5046]	5669	[6942, 3426]	7995	[8719, 8720]
1018	[1882, 1883]	3344	[5047, 2896]	5670	[1004, 4206]	7996	[8721, 8722]
1019	[1884, 1885]	3345	[5048, 1787]	5671	[7189, 415]	7997	[8723, 8685]
1020	[1886, 1887]	3346	[2283, 1941]	5672	[429, 377]	7998	[4406, 1750]
1021	[1888, 1889]	3347	[5049, 4754]	5673	[7190, 7191]	7999	[8724, 8725]
1022	[1890, 1891]	3348	[5050, 938]	5674	[64, 7192]	8000	[3913, 1267]
1023	[1892, 1893]	3349	[1956, 5051]	5675	[4602, 3509]	8001	[7384, 6341]
1024	[1894, 1895]	3350	[5052, 2846]	5676	[3349, 29]	8002	[8726, 8629]
1025	[1896, 1897]	3351	[40, 529]	5677	[6954, 7193]	8003	[3804, 6602]
1026	[1898, 1899]	3352	[5053, 1845]	5678	[3972, 999]	8004	[8727, 8728]
1027	[1900, 1901]	3353	[2652, 1846]	5679	[1738, 3599]	8005	[4549, 1238]
1028	[1902, 1903]	3354	[5054, 2096]	5680	[7194, 1226]	8006	[6857, 3781]

1029	[1904, 1905]	3355	[5055, 782]	5681	[7195, 7196]	8007	[8729, 8730]
1030	[1906, 1907]	3356	[886, 5056]	5682	[7197, 7198]	8008	[63, 1361]
1031	[1908, 1909]	3357	[5057, 5058]	5683	[7199, 4380]	8009	[8731, 1458]
1032	[1910, 1911]	3358	[5059, 5060]	5684	[4573, 6702]	8010	[1226, 1113]
1033	[1912, 1913]	3359	[5061, 5062]	5685	[7200, 7201]	8011	[3448, 4001]
1034	[1914, 1915]	3360	[5063, 2832]	5686	[116, 3032]	8012	[6983, 8732]
1035	[1916, 1917]	3361	[5064, 5065]	5687	[6559, 6373]	8013	[8717, 3609]
1036	[1918, 1919]	3362	[589, 5066]	5688	[3539, 7202]	8014	[4408, 8733]
1037	[1920, 1921]	3363	[628, 5067]	5689	[7203, 1416]	8015	[3833, 1388]
1038	[1922, 1923]	3364	[2912, 859]	5690	[1108, 7204]	8016	[8734, 4287]
1039	[1924, 1925]	3365	[5068, 5069]	5691	[4180, 1460]	8017	[8735, 3538]
1040	[1926, 1927]	3366	[5070, 4746]	5692	[3645, 7084]	8018	[1084, 6584]
1041	[1928, 897]	3367	[4954, 5071]	5693	[7205, 7206]	8019	[8736, 6822]
1042	[1898, 1929]	3368	[5072, 5073]	5694	[7207, 7208]	8020	[3264, 8737]
1043	[1930, 1931]	3369	[5074, 5075]	5695	[4489, 3528]	8021	[8738, 8739]
1044	[1932, 1933]	3370	[2699, 2689]	5696	[7209, 6510]	8022	[7220, 7433]
1045	[1934, 1935]	3371	[5076, 5077]	5697	[3332, 7210]	8023	[8740, 1012]
1046	[1936, 1937]	3372	[5078, 1844]	5698	[7211, 6501]	8024	[8741, 8675]
1047	[1774, 1938]	3373	[5079, 5080]	5699	[7212, 7213]	8025	[8742, 8743]
1048	[677, 1939]	3374	[5081, 5082]	5700	[4605, 3676]	8026	[1618, 4595]
1049	[1940, 1941]	3375	[5083, 2911]	5701	[7214, 3794]	8027	[8744, 8511]
1050	[1942, 1943]	3376	[5084, 5085]	5702	[7215, 3797]	8028	[1382, 332]
1051	[1944, 1945]	3377	[5086, 927]	5703	[7216, 3519]	8029	[1381, 8698]
1052	[1946, 1947]	3378	[5087, 2745]	5704	[3208, 6344]	8030	[8745, 8746]
1053	[1948, 1949]	3379	[2276, 53]	5705	[7217, 6552]	8031	[3344, 3588]
1054	[1950, 1951]	3380	[5088, 220]	5706	[7218, 3537]	8032	[7572, 6269]
1055	[1952, 1953]	3381	[5089, 232]	5707	[7219, 3658]	8033	[1452, 4110]
1056	[1954, 1955]	3382	[2365, 2465]	5708	[3844, 3626]	8034	[3969, 8497]
1057	[1956, 935]	3383	[5090, 5091]	5709	[6813, 1067]	8035	[3637, 97]
1058	[1957, 939]	3384	[5092, 5093]	5710	[7220, 7221]	8036	[8747, 8521]
1059	[1761, 1958]	3385	[4678, 5094]	5711	[7222, 7223]	8037	[1220, 8748]
1060	[1959, 1785]	3386	[900, 5095]	5712	[7224, 7225]	8038	[4344, 8749]
1061	[1960, 1961]	3387	[5096, 2693]	5713	[6300, 7226]	8039	[3735, 3168]
1062	[1962, 1963]	3388	[5097, 5098]	5714	[4038, 6912]	8040	[7465, 4026]
1063	[52, 1964]	3389	[5099, 5100]	5715	[7227, 3001]	8041	[8750, 4403]
1064	[1965, 1966]	3390	[5101, 5102]	5716	[7228, 6324]	8042	[6715, 7372]
1065	[1967, 1968]	3391	[5103, 5104]	5717	[7229, 7230]	8043	[3247, 3191]
1066	[1969, 1970]	3392	[5105, 5106]	5718	[7231, 7232]	8044	[8751, 8752]
1067	[1971, 1972]	3393	[5107, 2865]	5719	[7233, 7234]	8045	[8753, 3924]
1068	[1973, 633]	3394	[5108, 5109]	5720	[7235, 7236]	8046	[1547, 3888]
1069	[1974, 1975]	3395	[5110, 2050]	5721	[6446, 84]	8047	[3924, 1298]
1070	[1976, 1977]	3396	[5111, 5112]	5722	[6713, 6689]	8048	[8754, 8755]
1071	[1978, 1769]	3397	[5113, 5114]	5723	[7237, 7238]	8049	[6655, 8756]
1072	[1979, 657]	3398	[4900, 2237]	5724	[4335, 1511]	8050	[6915, 1461]

1073	[723, 893]	3399	[2774, 5115]	5725	[7239, 3734]	8051	[8757, 8659]
1074	[1980, 1981]	3400	[152, 1994]	5726	[1080, 7240]	8052	[6933, 78]
1075	[1982, 1983]	3401	[245, 5116]	5727	[7241, 7242]	8053	[3382, 6876]
1076	[1984, 1985]	3402	[5117, 1881]	5728	[6625, 4622]	8054	[8758, 8759]
1077	[1986, 558]	3403	[5118, 2094]	5729	[276, 6376]	8055	[3892, 1594]
1078	[1987, 1988]	3404	[5119, 2152]	5730	[1341, 7243]	8056	[8754, 1215]
1079	[1989, 1990]	3405	[5120, 1940]	5731	[7244, 3671]	8057	[4213, 7423]
1080	[1991, 1992]	3406	[5121, 2225]	5732	[6570, 3290]	8058	[8760, 1674]
1081	[1993, 1994]	3407	[2045, 5122]	5733	[4323, 991]	8059	[1698, 3688]
1082	[1995, 1996]	3408	[5123, 5124]	5734	[7245, 7076]	8060	[7528, 4416]
1083	[1997, 1998]	3409	[816, 5125]	5735	[7246, 4071]	8061	[8761, 7383]
1084	[1999, 2000]	3410	[5126, 1864]	5736	[84, 1065]	8062	[8762, 8763]
1085	[2001, 2002]	3411	[4795, 5127]	5737	[374, 4319]	8063	[8764, 8765]
1086	[1973, 1875]	3412	[5030, 175]	5738	[7247, 7248]	8064	[6474, 1656]
1087	[214, 2003]	3413	[5128, 2162]	5739	[1473, 3383]	8065	[8766, 7177]
1088	[2004, 2005]	3414	[5129, 5130]	5740	[7249, 6450]	8066	[7242, 6727]
1089	[2006, 2007]	3415	[5131, 5132]	5741	[6463, 7250]	8067	[8767, 8768]
1090	[2008, 2009]	3416	[5133, 5011]	5742	[7251, 3062]	8068	[8498, 7515]
1091	[605, 2010]	3417	[5134, 508]	5743	[3416, 4080]	8069	[8769, 274]
1092	[2011, 814]	3418	[5135, 5136]	5744	[6725, 3838]	8070	[3552, 3732]
1093	[2012, 2013]	3419	[5137, 1940]	5745	[7252, 7253]	8071	[1342, 8770]
1094	[2014, 2015]	3420	[5095, 5138]	5746	[6711, 1018]	8072	[7066, 1487]
1095	[565, 2016]	3421	[2827, 2886]	5747	[7018, 7254]	8073	[1746, 120]
1096	[2017, 2018]	3422	[5139, 207]	5748	[401, 3699]	8074	[6769, 3703]
1097	[2019, 2020]	3423	[5140, 4989]	5749	[87, 3495]	8075	[8771, 8772]
1098	[2021, 670]	3424	[2169, 786]	5750	[7255, 6736]	8076	[8773, 6309]
1099	[2022, 2023]	3425	[4956, 5141]	5751	[6891, 7256]	8077	[1446, 6956]
1100	[2024, 2025]	3426	[5142, 4837]	5752	[7257, 4441]	8078	[449, 8774]
1101	[2026, 848]	3427	[5143, 2651]	5753	[7258, 4472]	8079	[8775, 6340]
1102	[2027, 2028]	3428	[5144, 223]	5754	[7259, 1605]	8080	[8776, 6914]
1103	[2029, 2030]	3429	[5145, 4677]	5755	[7260, 1043]	8081	[3415, 4079]
1104	[2031, 554]	3430	[5146, 5147]	5756	[7261, 7262]	8082	[8777, 8778]
1105	[2032, 2033]	3431	[5148, 5149]	5757	[6801, 3787]	8083	[6699, 8779]
1106	[2034, 683]	3432	[4691, 5150]	5758	[7263, 6527]	8084	[1520, 417]
1107	[2035, 2036]	3433	[5151, 5152]	5759	[1071, 6818]	8085	[8780, 3684]
1108	[605, 556]	3434	[2574, 5153]	5760	[7264, 7095]	8086	[6858, 3825]
1109	[2037, 2038]	3435	[1986, 239]	5761	[1605, 1662]	8087	[8781, 3400]
1110	[2039, 2040]	3436	[5154, 5155]	5762	[7265, 6316]	8088	[8782, 8626]
1111	[2041, 2042]	3437	[5156, 2347]	5763	[953, 7142]	8089	[7465, 6987]
1112	[2043, 2044]	3438	[5157, 5158]	5764	[7266, 7267]	8090	[7265, 3704]
1113	[2045, 2046]	3439	[5159, 5160]	5765	[3545, 492]	8091	[8783, 4522]
1114	[2047, 2048]	3440	[5161, 5162]	5766	[7268, 1139]	8092	[3578, 3095]
1115	[2049, 2050]	3441	[5163, 4914]	5767	[3240, 1332]	8093	[7441, 8784]
1116	[2051, 2052]	3442	[2424, 740]	5768	[7269, 4016]	8094	[8785, 8786]

1117	[806, 2053]	3443	[2427, 740]	5769	[7270, 3886]	8095	[8504, 260]
1118	[2054, 2055]	3444	[1909, 4913]	5770	[7271, 3901]	8096	[8787, 1711]
1119	[2056, 2057]	3445	[5164, 5165]	5771	[1034, 6305]	8097	[8788, 3044]
1120	[2058, 2059]	3446	[5166, 4854]	5772	[4024, 1303]	8098	[3184, 6606]
1121	[2060, 1788]	3447	[2850, 2781]	5773	[7027, 1305]	8099	[7517, 6745]
1122	[2061, 2062]	3448	[5167, 5168]	5774	[7272, 7273]	8100	[3976, 17]
1123	[2063, 2064]	3449	[5169, 5170]	5775	[6460, 7274]	8101	[291, 4434]
1124	[2065, 1788]	3450	[2685, 1862]	5776	[7275, 6355]	8102	[6434, 4529]
1125	[2066, 2067]	3451	[5171, 5172]	5777	[7276, 6955]	8103	[6897, 8686]
1126	[2068, 2069]	3452	[2044, 5109]	5778	[4436, 3444]	8104	[4200, 3159]
1127	[2070, 2071]	3453	[5173, 5083]	5779	[7277, 7278]	8105	[3204, 8549]
1128	[2072, 2073]	3454	[5174, 2604]	5780	[7279, 6961]	8106	[8789, 268]
1129	[2074, 2075]	3455	[5175, 2606]	5781	[7280, 3597]	8107	[1664, 1198]
1130	[2076, 2077]	3456	[5176, 4625]	5782	[7281, 7282]	8108	[6284, 6397]
1131	[2078, 2079]	3457	[5177, 5178]	5783	[7283, 4394]	8109	[8790, 6761]
1132	[2080, 2081]	3458	[5179, 651]	5784	[314, 7284]	8110	[6702, 1296]
1133	[2082, 2083]	3459	[5180, 2410]	5785	[7285, 7286]	8111	[1258, 8791]
1134	[2084, 2085]	3460	[5181, 2327]	5786	[4258, 1083]	8112	[8792, 6409]
1135	[2086, 2087]	3461	[5182, 5183]	5787	[7287, 7068]	8113	[984, 6592]
1136	[2088, 2089]	3462	[4875, 42]	5788	[1274, 6971]	8114	[3423, 3292]
1137	[2090, 2091]	3463	[2781, 5184]	5789	[6930, 6353]	8115	[8793, 1500]
1138	[2092, 2093]	3464	[780, 2824]	5790	[6623, 6562]	8116	[8794, 6713]
1139	[2094, 899]	3465	[5185, 781]	5791	[7288, 7044]	8117	[4484, 8784]
1140	[2095, 2096]	3466	[2005, 853]	5792	[3476, 6433]	8118	[8795, 6462]
1141	[2097, 903]	3467	[5186, 5187]	5793	[4396, 3580]	8119	[3107, 8796]
1142	[2098, 2099]	3468	[897, 5188]	5794	[7202, 7047]	8120	[8797, 8798]
1143	[618, 2100]	3469	[5189, 5190]	5795	[1696, 1395]	8121	[3001, 4541]
1144	[2101, 2102]	3470	[5191, 5192]	5796	[7289, 4367]	8122	[4259, 1685]
1145	[2103, 2104]	3471	[5193, 2634]	5797	[7290, 7262]	8123	[8667, 4432]
1146	[2105, 2106]	3472	[5194, 2336]	5798	[327, 6276]	8124	[6981, 4012]
1147	[206, 2107]	3473	[5195, 4693]	5799	[7291, 3900]	8125	[3015, 1011]
1148	[2108, 2109]	3474	[5196, 4803]	5800	[7089, 3751]	8126	[1596, 3582]
1149	[2110, 2111]	3475	[5197, 5198]	5801	[7292, 4276]	8127	[7470, 8799]
1150	[2112, 2113]	3476	[5199, 2479]	5802	[7293, 7294]	8128	[8800, 8801]
1151	[2114, 2115]	3477	[5200, 50]	5803	[7295, 6457]	8129	[8802, 8803]
1152	[2116, 943]	3478	[5201, 5202]	5804	[7296, 6892]	8130	[3117, 3279]
1153	[2117, 2118]	3479	[5203, 213]	5805	[7297, 6346]	8131	[7039, 7170]
1154	[2119, 2120]	3480	[5204, 5205]	5806	[1611, 3638]	8132	[6687, 8804]
1155	[222, 2121]	3481	[44, 2328]	5807	[1600, 3782]	8133	[7019, 6809]
1156	[2122, 2123]	3482	[5206, 1926]	5808	[1581, 3560]	8134	[7160, 117]
1157	[2124, 2125]	3483	[5207, 587]	5809	[7298, 7299]	8135	[8714, 6396]
1158	[2126, 2127]	3484	[5208, 5209]	5810	[6874, 6704]	8136	[8805, 3850]
1159	[2128, 2129]	3485	[4687, 2733]	5811	[7300, 7301]	8137	[8806, 6428]
1160	[2130, 2131]	3486	[5210, 5211]	5812	[3928, 4345]	8138	[8807, 3594]

1161	[2132, 2133]	3487	[5212, 4902]	5813	[4425, 1477]	8139	[1128, 327]
1162	[2134, 2135]	3488	[5213, 10]	5814	[7302, 6730]	8140	[8808, 7431]
1163	[2136, 2137]	3489	[5214, 5215]	5815	[3624, 7303]	8141	[7049, 6379]
1164	[2138, 2139]	3490	[5216, 2647]	5816	[7304, 3956]	8142	[7222, 1741]
1165	[2140, 2141]	3491	[5217, 5205]	5817	[7305, 4237]	8143	[4041, 1610]
1166	[927, 731]	3492	[1954, 5218]	5818	[1390, 7306]	8144	[7071, 488]
1167	[2142, 2143]	3493	[5219, 5220]	5819	[7307, 3541]	8145	[3579, 975]
1168	[2144, 2145]	3494	[5217, 5221]	5820	[4506, 4185]	8146	[7373, 6636]
1169	[2146, 2147]	3495	[5222, 4645]	5821	[3070, 6559]	8147	[7192, 8639]
1170	[2148, 2149]	3496	[5223, 5224]	5822	[1716, 6785]	8148	[3514, 8809]
1171	[2150, 2151]	3497	[5225, 5149]	5823	[6451, 1437]	8149	[8810, 6815]
1172	[2152, 1784]	3498	[5226, 4922]	5824	[7033, 7308]	8150	[3604, 3691]
1173	[2153, 2154]	3499	[5227, 2797]	5825	[7309, 452]	8151	[8811, 3378]
1174	[2155, 2156]	3500	[5228, 5229]	5826	[7074, 4319]	8152	[8812, 4424]
1175	[2157, 2158]	3501	[5230, 5231]	5827	[3008, 4588]	8153	[4493, 7455]
1176	[603, 2159]	3502	[5232, 5233]	5828	[4101, 7071]	8154	[8813, 7554]
1177	[2160, 2161]	3503	[1859, 2914]	5829	[7310, 1209]	8155	[3, 6319]
1178	[175, 632]	3504	[5234, 5235]	5830	[3603, 4471]	8156	[7343, 1575]
1179	[2162, 2163]	3505	[2968, 5236]	5831	[1251, 4599]	8157	[8814, 8815]
1180	[851, 773]	3506	[5237, 2359]	5832	[7311, 7294]	8158	[968, 7256]
1181	[239, 2164]	3507	[4778, 4641]	5833	[7312, 7313]	8159	[4201, 1557]
1182	[896, 2165]	3508	[5238, 5239]	5834	[6349, 4339]	8160	[1712, 1637]
1183	[2166, 2167]	3509	[5240, 5241]	5835	[7314, 6806]	8161	[8816, 4239]
1184	[2168, 1931]	3510	[2384, 2739]	5836	[7315, 7316]	8162	[8817, 6736]
1185	[2169, 1772]	3511	[2165, 5188]	5837	[7317, 4300]	8163	[8818, 1165]
1186	[2170, 2171]	3512	[5242, 2105]	5838	[7318, 7319]	8164	[8819, 8820]
1187	[2172, 2173]	3513	[1889, 5243]	5839	[4328, 3224]	8165	[8821, 8822]
1188	[2174, 2175]	3514	[1882, 5244]	5840	[3753, 1745]	8166	[7197, 1482]
1189	[2176, 1998]	3515	[5245, 5246]	5841	[7320, 6543]	8167	[3698, 402]
1190	[2177, 2178]	3516	[619, 5247]	5842	[3395, 6830]	8168	[480, 1631]
1191	[2179, 2180]	3517	[5248, 2201]	5843	[3059, 7321]	8169	[8823, 3065]
1192	[2181, 2182]	3518	[5186, 2556]	5844	[7322, 3631]	8170	[3839, 3323]
1193	[592, 2183]	3519	[4671, 5249]	5845	[7323, 6654]	8171	[6995, 6408]
1194	[2184, 2185]	3520	[5250, 773]	5846	[4159, 3925]	8172	[8824, 8825]
1195	[2186, 2187]	3521	[5251, 5252]	5847	[7324, 7325]	8173	[1515, 360]
1196	[50, 2188]	3522	[5253, 5254]	5848	[3268, 1061]	8174	[8826, 3049]
1197	[234, 2189]	3523	[5255, 5060]	5849	[7326, 7154]	8175	[8827, 3918]
1198	[2190, 2191]	3524	[5256, 5257]	5850	[7327, 3712]	8176	[8828, 8641]
1199	[2192, 2193]	3525	[5258, 5259]	5851	[7328, 1316]	8177	[6529, 6742]
1200	[2194, 2195]	3526	[5260, 4831]	5852	[993, 6416]	8178	[1189, 4456]
1201	[2196, 2197]	3527	[5261, 689]	5853	[3237, 3293]	8179	[8829, 3390]
1202	[135, 163]	3528	[5077, 2694]	5854	[6997, 4011]	8180	[8508, 7380]
1203	[2198, 2199]	3529	[5262, 5263]	5855	[447, 4337]	8181	[1681, 3999]
1204	[2075, 2200]	3530	[2470, 530]	5856	[7329, 3911]	8182	[4334, 8830]

1205	[2201, 2202]	3531	[5264, 5095]	5857	[7330, 7281]	8183	[1517, 7533]
1206	[2203, 2204]	3532	[5265, 5194]	5858	[7331, 7011]	8184	[6685, 1284]
1207	[2205, 2206]	3533	[2978, 5266]	5859	[7332, 7333]	8185	[6975, 7051]
1208	[2207, 2208]	3534	[5267, 5268]	5860	[95, 7334]	8186	[8831, 3274]
1209	[2209, 2210]	3535	[2942, 5269]	5861	[6996, 4546]	8187	[1536, 8832]
1210	[2211, 2212]	3536	[5270, 2554]	5862	[6530, 6908]	8188	[4526, 6384]
1211	[2213, 904]	3537	[5271, 5272]	5863	[3933, 4377]	8189	[8833, 1615]
1212	[2214, 2215]	3538	[5273, 5274]	5864	[7335, 7301]	8190	[1649, 1583]
1213	[2216, 158]	3539	[2896, 875]	5865	[7336, 342]	8191	[8552, 7226]
1214	[2217, 625]	3540	[5275, 5276]	5866	[7127, 1054]	8192	[7583, 1233]
1215	[2218, 2219]	3541	[5277, 2901]	5867	[3134, 6647]	8193	[8707, 7180]
1216	[2220, 2221]	3542	[5278, 864]	5868	[7337, 7281]	8194	[1449, 1432]
1217	[2222, 1856]	3543	[600, 4804]	5869	[4434, 7157]	8195	[118, 354]
1218	[2223, 2224]	3544	[5279, 5280]	5870	[6824, 6336]	8196	[8834, 3889]
1219	[2225, 2226]	3545	[2950, 948]	5871	[6752, 1474]	8197	[1757, 7173]
1220	[2227, 216]	3546	[5281, 2367]	5872	[7338, 7339]	8198	[8835, 264]
1221	[2228, 755]	3547	[5282, 5283]	5873	[4405, 7340]	8199	[8836, 4491]
1222	[2229, 2230]	3548	[5284, 5285]	5874	[7341, 991]	8200	[8837, 6558]
1223	[2231, 2232]	3549	[1903, 2643]	5875	[1650, 1652]	8201	[4614, 3004]
1224	[942, 2233]	3550	[5286, 5287]	5876	[7342, 3998]	8202	[4307, 8532]
1225	[2234, 2235]	3551	[5288, 1859]	5877	[7343, 6963]	8203	[4135, 6266]
1226	[2236, 2047]	3552	[1877, 5118]	5878	[6389, 4431]	8204	[7443, 327]
1227	[2237, 2238]	3553	[5289, 5290]	5879	[7164, 3416]	8205	[6583, 7452]
1228	[2239, 2240]	3554	[5291, 2469]	5880	[7099, 1365]	8206	[8736, 8838]
1229	[2212, 2241]	3555	[847, 5292]	5881	[3480, 7309]	8207	[1467, 6744]
1230	[2242, 2243]	3556	[5293, 5294]	5882	[7344, 7133]	8208	[3009, 7271]
1231	[2244, 2245]	3557	[5295, 1919]	5883	[7128, 3527]	8209	[8839, 7065]
1232	[535, 1874]	3558	[5129, 5296]	5884	[1339, 7345]	8210	[3362, 8840]
1233	[2246, 2247]	3559	[670, 5089]	5885	[6575, 7346]	8211	[8841, 1162]
1234	[2248, 2249]	3560	[5297, 2008]	5886	[7347, 6876]	8212	[4581, 3453]
1235	[2250, 1765]	3561	[2285, 2936]	5887	[7348, 4542]	8213	[8842, 4573]
1236	[2251, 2252]	3562	[5298, 5299]	5888	[4394, 3801]	8214	[8843, 8844]
1237	[2253, 2137]	3563	[822, 5233]	5889	[1001, 6967]	8215	[3478, 4329]
1238	[2254, 1831]	3564	[5300, 5301]	5890	[1075, 6255]	8216	[8845, 1271]
1239	[2255, 2256]	3565	[5302, 5303]	5891	[7349, 4158]	8217	[8846, 8636]
1240	[2257, 775]	3566	[2572, 5304]	5892	[1256, 3752]	8218	[7206, 3642]
1241	[2258, 2259]	3567	[5305, 5306]	5893	[6703, 6875]	8219	[6635, 7502]
1242	[2260, 2261]	3568	[5307, 2501]	5894	[1298, 4551]	8220	[7362, 3530]
1243	[2262, 2263]	3569	[5308, 2699]	5895	[4252, 1583]	8221	[111, 3989]
1244	[741, 2264]	3570	[2718, 5309]	5896	[1554, 1379]	8222	[6438, 1640]
1245	[2265, 2266]	3571	[5310, 834]	5897	[1718, 6975]	8223	[8847, 7563]
1246	[2267, 2268]	3572	[2902, 4806]	5898	[6910, 7350]	8224	[7116, 8770]
1247	[2269, 894]	3573	[5311, 4709]	5899	[7351, 1048]	8225	[8848, 3519]
1248	[2270, 2271]	3574	[2668, 5312]	5900	[7101, 6435]	8226	[957, 4168]

1249	[2272, 2273]	3575	[5313, 680]	5901	[4541, 3310]	8227	[8849, 1724]
1250	[2274, 659]	3576	[5314, 5315]	5902	[6973, 1410]	8228	[1383, 8789]
1251	[2275, 2276]	3577	[5119, 4979]	5903	[1529, 4346]	8229	[7422, 7346]
1252	[2277, 2278]	3578	[4780, 4658]	5904	[7352, 4258]	8230	[4271, 3242]
1253	[2279, 2280]	3579	[5316, 5317]	5905	[4183, 7353]	8231	[8850, 6750]
1254	[2281, 2282]	3580	[5318, 5319]	5906	[7354, 3970]	8232	[7028, 8667]
1255	[2283, 2284]	3581	[5320, 5321]	5907	[7094, 7355]	8233	[3437, 6633]
1256	[2285, 218]	3582	[2663, 1868]	5908	[7356, 6573]	8234	[8851, 4117]
1257	[2286, 2151]	3583	[5322, 1832]	5909	[7357, 7234]	8235	[3510, 3570]
1258	[2287, 2288]	3584	[5323, 2940]	5910	[6825, 6337]	8236	[4461, 4554]
1259	[2289, 2290]	3585	[227, 743]	5911	[7358, 4009]	8237	[8852, 4073]
1260	[2291, 2292]	3586	[5324, 5325]	5912	[1361, 7192]	8238	[3584, 3023]
1261	[2293, 2294]	3587	[5144, 2121]	5913	[7359, 4618]	8239	[4336, 3729]
1262	[2295, 2296]	3588	[5326, 2062]	5914	[3020, 6861]	8240	[1289, 3054]
1263	[2297, 2298]	3589	[5327, 2130]	5915	[7360, 7361]	8241	[4546, 6984]
1264	[2299, 2300]	3590	[5328, 5329]	5916	[7362, 3002]	8242	[8542, 1072]
1265	[2301, 2302]	3591	[5330, 5283]	5917	[1444, 7363]	8243	[423, 3860]
1266	[2303, 2304]	3592	[5331, 5332]	5918	[4399, 4513]	8244	[3355, 100]
1267	[2305, 2306]	3593	[1933, 5333]	5919	[7364, 3053]	8245	[4371, 3308]
1268	[2307, 180]	3594	[5334, 4830]	5920	[7365, 4035]	8246	[4356, 1056]
1269	[2308, 2309]	3595	[5016, 733]	5921	[7366, 3978]	8247	[6681, 6311]
1270	[2310, 2311]	3596	[5335, 2246]	5922	[1187, 1514]	8248	[8853, 8854]
1271	[2312, 2313]	3597	[4688, 5336]	5923	[7367, 7267]	8249	[1632, 6945]
1272	[2314, 1896]	3598	[5337, 2083]	5924	[7368, 6453]	8250	[8855, 1220]
1273	[2315, 2316]	3599	[5338, 3661]	5925	[3251, 4404]	8251	[8662, 467]
1274	[2317, 880]	3600	[5339, 128]	5926	[1565, 7369]	8252	[8856, 8624]
1275	[2287, 2153]	3601	[5340, 5341]	5927	[3179, 7370]	8253	[6603, 7021]
1276	[2318, 2319]	3602	[2205, 5342]	5928	[7371, 4283]	8254	[4247, 1600]
1277	[2320, 2321]	3603	[5343, 5344]	5929	[3152, 7372]	8255	[1004, 8857]
1278	[2322, 2302]	3604	[5345, 2458]	5930	[7373, 1471]	8256	[8858, 8716]
1279	[2323, 2324]	3605	[870, 4809]	5931	[6934, 3037]	8257	[1703, 8536]
1280	[696, 858]	3606	[916, 1878]	5932	[7235, 4518]	8258	[1318, 336]
1281	[2325, 2246]	3607	[5346, 5347]	5933	[6580, 68]	8259	[6258, 6316]
1282	[2326, 2275]	3608	[804, 37]	5934	[6783, 1400]	8260	[8859, 8860]
1283	[2327, 2328]	3609	[5348, 4849]	5935	[6410, 3221]	8261	[8861, 3069]
1284	[2329, 2330]	3610	[2877, 1842]	5936	[7374, 3611]	8262	[434, 6619]
1285	[2331, 2332]	3611	[2378, 2195]	5937	[7375, 7031]	8263	[1671, 8611]
1286	[661, 2333]	3612	[4978, 5349]	5938	[320, 3050]	8264	[8862, 7462]
1287	[2334, 673]	3613	[5350, 810]	5939	[6351, 3466]	8265	[7449, 96]
1288	[2335, 2007]	3614	[5351, 221]	5940	[7376, 7377]	8266	[8863, 3752]
1289	[2336, 909]	3615	[933, 2599]	5941	[3088, 7321]	8267	[8864, 3386]
1290	[2265, 2337]	3616	[2584, 2542]	5942	[7325, 4264]	8268	[1204, 6535]
1291	[1802, 946]	3617	[5352, 5353]	5943	[4580, 6828]	8269	[8865, 1738]
1292	[252, 2338]	3618	[1876, 5354]	5944	[7378, 7379]	8270	[8866, 8711]

1293	[2339, 2200]	3619	[5355, 5356]	5945	[7317, 4208]	8271	[8867, 1292]
1294	[2340, 552]	3620	[5357, 172]	5946	[4232, 7380]	8272	[457, 3235]
1295	[2341, 2342]	3621	[2505, 5358]	5947	[6881, 7381]	8273	[4357, 8733]
1296	[2343, 2344]	3622	[5359, 2714]	5948	[7382, 4316]	8274	[8868, 3490]
1297	[2345, 2111]	3623	[5360, 2734]	5949	[4419, 7383]	8275	[3353, 3992]
1298	[2346, 2347]	3624	[5361, 2036]	5950	[4420, 1540]	8276	[3508, 4603]
1299	[182, 2]	3625	[793, 5362]	5951	[3881, 7048]	8277	[488, 424]
1300	[2348, 2349]	3626	[5363, 5364]	5952	[7384, 3259]	8278	[8869, 7488]
1301	[2350, 2351]	3627	[5365, 2351]	5953	[1498, 1078]	8279	[3218, 8870]
1302	[2352, 2353]	3628	[5366, 2128]	5954	[1667, 7385]	8280	[3720, 8871]
1303	[2354, 2355]	3629	[2264, 5367]	5955	[7386, 6450]	8281	[4019, 1622]
1304	[2356, 2357]	3630	[5368, 2247]	5956	[3905, 3522]	8282	[3883, 3402]
1305	[2358, 2359]	3631	[5369, 5370]	5957	[1248, 3270]	8283	[7258, 1430]
1306	[750, 1913]	3632	[705, 2995]	5958	[4008, 7387]	8284	[8872, 6456]
1307	[2360, 942]	3633	[5371, 4725]	5959	[7388, 7389]	8285	[6503, 3188]
1308	[2361, 2362]	3634	[2201, 1903]	5960	[7390, 7039]	8286	[4302, 1722]
1309	[2363, 2364]	3635	[5372, 5373]	5961	[7391, 3491]	8287	[6366, 3745]
1310	[2365, 2366]	3636	[5374, 5375]	5962	[4235, 6790]	8288	[8873, 6998]
1311	[2367, 187]	3637	[654, 2271]	5963	[7392, 6411]	8289	[6412, 1179]
1312	[2368, 2369]	3638	[2412, 5376]	5964	[3652, 3652]	8290	[8874, 4207]
1313	[2370, 2371]	3639	[5377, 5378]	5965	[4034, 1079]	8291	[8875, 8623]
1314	[2372, 2373]	3640	[2234, 2882]	5966	[7393, 1469]	8292	[3114, 4177]
1315	[2374, 2375]	3641	[5379, 5380]	5967	[3765, 7394]	8293	[3672, 4379]
1316	[944, 2376]	3642	[2159, 4652]	5968	[7395, 7396]	8294	[8876, 3701]
1317	[2377, 2378]	3643	[2354, 5381]	5969	[3320, 477]	8295	[6274, 8877]
1318	[2379, 905]	3644	[2048, 2628]	5970	[6443, 1084]	8296	[8878, 4504]
1319	[2380, 779]	3645	[2909, 4770]	5971	[4010, 3384]	8297	[949, 1058]
1320	[2381, 2198]	3646	[5287, 5183]	5972	[7397, 7398]	8298	[8753, 1297]
1321	[2382, 2383]	3647	[5382, 5211]	5973	[7399, 4266]	8299	[6558, 3263]
1322	[841, 2384]	3648	[2164, 5383]	5974	[6740, 1480]	8300	[1547, 7575]
1323	[2385, 2386]	3649	[2782, 2668]	5975	[7400, 7012]	8301	[8879, 7412]
1324	[2387, 2388]	3650	[5114, 546]	5976	[7401, 1010]	8302	[8880, 7230]
1325	[2389, 2319]	3651	[5384, 2913]	5977	[7402, 3559]	8303	[7214, 6391]
1326	[578, 2390]	3652	[2913, 1860]	5978	[7065, 1229]	8304	[8881, 3826]
1327	[2391, 2392]	3653	[5139, 2107]	5979	[7192, 7403]	8305	[8882, 8883]
1328	[2393, 2043]	3654	[155, 5385]	5980	[7404, 3927]	8306	[7113, 454]
1329	[2394, 2395]	3655	[2595, 5386]	5981	[7161, 7405]	8307	[8884, 4053]
1330	[2396, 723]	3656	[5026, 5387]	5982	[7406, 1312]	8308	[8885, 8886]
1331	[2397, 2398]	3657	[5388, 5155]	5983	[6968, 4045]	8309	[7056, 8583]
1332	[2399, 2400]	3658	[2613, 623]	5984	[3694, 3145]	8310	[3018, 3272]
1333	[2401, 2402]	3659	[5389, 5390]	5985	[7407, 3895]	8311	[8887, 7261]
1334	[2403, 2404]	3660	[2975, 5391]	5986	[7233, 7408]	8312	[1298, 1212]
1335	[2405, 2406]	3661	[3661, 3661]	5987	[4407, 1449]	8313	[8888, 8889]
1336	[2407, 1762]	3662	[629, 5392]	5988	[7409, 3650]	8314	[3951, 3640]

1337	[2408, 2409]	3663	[5393, 5394]	5989	[7410, 7278]	8315	[1489, 6786]
1338	[2410, 2411]	3664	[5395, 1925]	5990	[7411, 7412]	8316	[3800, 4392]
1339	[2412, 2413]	3665	[5396, 5397]	5991	[4105, 1677]	8317	[8890, 6515]
1340	[2414, 2415]	3666	[5398, 5399]	5992	[7413, 3441]	8318	[8579, 1116]
1341	[2416, 2417]	3667	[5400, 5285]	5993	[7414, 7134]	8319	[1255, 3352]
1342	[2404, 2418]	3668	[5401, 2549]	5994	[3924, 6885]	8320	[8891, 6532]
1343	[2419, 2420]	3669	[5402, 5403]	5995	[7415, 7416]	8321	[6717, 7370]
1344	[2421, 2422]	3670	[830, 5404]	5996	[6302, 4592]	8322	[1086, 3663]
1345	[2089, 2423]	3671	[5405, 5406]	5997	[1315, 7303]	8323	[8892, 1234]
1346	[185, 2424]	3672	[5407, 5408]	5998	[7305, 325]	8324	[4619, 4230]
1347	[2425, 2236]	3673	[5409, 4932]	5999	[7417, 1676]	8325	[8793, 4133]
1348	[2426, 2425]	3674	[5410, 5397]	6000	[1181, 3647]	8326	[7393, 6397]
1349	[185, 2427]	3675	[5411, 2558]	6001	[4210, 3380]	8327	[255, 6612]
1350	[713, 2428]	3676	[5412, 5413]	6002	[496, 3098]	8328	[8893, 3877]
1351	[2429, 1909]	3677	[5414, 4936]	6003	[4309, 3046]	8329	[3808, 4339]
1352	[2430, 2264]	3678	[5415, 5403]	6004	[7418, 7419]	8330	[1507, 6933]
1353	[710, 710]	3679	[2607, 5416]	6005	[7420, 3874]	8331	[1562, 3914]
1354	[2431, 1908]	3680	[5417, 5418]	6006	[7421, 6825]	8332	[8894, 7548]
1355	[2432, 2047]	3681	[5419, 5420]	6007	[1631, 4561]	8333	[8895, 1020]
1356	[2433, 1908]	3682	[5421, 583]	6008	[7422, 6576]	8334	[4297, 3084]
1357	[2434, 506]	3683	[5318, 5422]	6009	[3720, 7423]	8335	[4214, 4590]
1358	[2434, 1795]	3684	[5423, 5424]	6010	[7424, 431]	8336	[6254, 6978]
1359	[2435, 1795]	3685	[1966, 4941]	6011	[3944, 6524]	8337	[8861, 1682]
1360	[2436, 582]	3686	[2092, 169]	6012	[7425, 6998]	8338	[8896, 3933]
1361	[2437, 2438]	3687	[559, 5383]	6013	[7426, 7017]	8339	[7092, 4618]
1362	[2439, 916]	3688	[653, 2605]	6014	[7163, 7427]	8340	[8597, 8670]
1363	[2440, 2441]	3689	[2924, 2802]	6015	[4482, 7428]	8341	[7392, 3221]
1364	[2442, 2443]	3690	[5425, 2583]	6016	[7429, 7430]	8342	[8897, 8643]
1365	[2444, 2445]	3691	[5343, 549]	6017	[7431, 107]	8343	[8898, 8674]
1366	[2344, 1841]	3692	[5426, 5427]	6018	[7432, 7433]	8344	[8899, 8704]
1367	[2446, 1821]	3693	[5428, 4760]	6019	[7434, 3916]	8345	[6314, 3233]
1368	[2447, 2448]	3694	[2537, 5353]	6020	[7132, 7435]	8346	[6294, 8870]
1369	[2449, 2450]	3695	[5429, 5430]	6021	[4120, 6583]	8347	[6759, 8587]
1370	[2451, 2452]	3696	[5431, 5432]	6022	[1616, 4431]	8348	[3418, 7057]
1371	[2453, 2454]	3697	[4827, 5433]	6023	[7436, 4523]	8349	[8781, 8900]
1372	[2455, 2456]	3698	[2815, 5434]	6024	[7437, 7438]	8350	[8901, 4093]
1373	[2457, 819]	3699	[5435, 5436]	6025	[1042, 3840]	8351	[6535, 8902]
1374	[2458, 246]	3700	[931, 1779]	6026	[4226, 6926]	8352	[7085, 4153]
1375	[2459, 549]	3701	[5437, 1888]	6027	[6331, 3531]	8353	[8903, 3892]
1376	[2460, 2461]	3702	[219, 5046]	6028	[7439, 7440]	8354	[1440, 1753]
1377	[2462, 2463]	3703	[5438, 2375]	6029	[7441, 4485]	8355	[417, 8664]
1378	[2464, 2465]	3704	[5439, 5440]	6030	[7442, 3773]	8356	[8904, 8905]
1379	[2466, 2467]	3705	[5441, 5442]	6031	[7443, 1129]	8357	[396, 6632]
1380	[2468, 2369]	3706	[159, 1961]	6032	[1133, 7444]	8358	[4361, 4550]

1381	[2469, 2052]	3707	[2608, 5443]	6033	[3176, 416]	8359	[7559, 113]
1382	[2470, 522]	3708	[5444, 5445]	6034	[7445, 6816]	8360	[4003, 3973]
1383	[1930, 526]	3709	[5446, 5447]	6035	[7446, 7447]	8361	[6637, 350]
1384	[789, 2471]	3710	[5448, 5449]	6036	[4065, 3449]	8362	[6383, 105]
1385	[2472, 2473]	3711	[5450, 676]	6037	[7448, 1757]	8363	[6952, 4259]
1386	[2474, 1771]	3712	[5451, 2288]	6038	[4139, 462]	8364	[8906, 8907]
1387	[2475, 588]	3713	[5452, 5293]	6039	[7449, 7334]	8365	[328, 6534]
1388	[2476, 2477]	3714	[5453, 5454]	6040	[7450, 4123]	8366	[8908, 1427]
1389	[2478, 2479]	3715	[5455, 5456]	6041	[3971, 3199]	8367	[8909, 8910]
1390	[2480, 1988]	3716	[5457, 774]	6042	[7377, 7451]	8368	[7009, 8579]
1391	[2481, 2482]	3717	[1972, 1976]	6043	[1186, 956]	8369	[1043, 3839]
1392	[2483, 803]	3718	[863, 4692]	6044	[4512, 4400]	8370	[8881, 8659]
1393	[2484, 2485]	3719	[5247, 2967]	6045	[3746, 3843]	8371	[4415, 7529]
1394	[2486, 2487]	3720	[5458, 5156]	6046	[7452, 4503]	8372	[6591, 8911]
1395	[2488, 2431]	3721	[5459, 5460]	6047	[7453, 7261]	8373	[8912, 8913]
1396	[2489, 2490]	3722	[5461, 4640]	6048	[7454, 6689]	8374	[8914, 6831]
1397	[711, 710]	3723	[5462, 2112]	6049	[1699, 7455]	8375	[8915, 8860]
1398	[2491, 2492]	3724	[5463, 2240]	6050	[7456, 7092]	8376	[73, 8916]
1399	[2493, 2299]	3725	[5464, 5465]	6051	[1562, 7457]	8377	[8917, 3271]
1400	[2494, 2495]	3726	[5466, 5467]	6052	[7458, 7459]	8378	[3113, 3313]
1401	[2407, 2496]	3727	[5468, 5469]	6053	[1103, 3154]	8379	[7358, 7387]
1402	[2497, 2013]	3728	[5470, 719]	6054	[7460, 3459]	8380	[8918, 7232]
1403	[2498, 879]	3729	[5471, 5472]	6055	[3587, 3345]	8381	[343, 3817]
1404	[2499, 2500]	3730	[5473, 2797]	6056	[951, 4154]	8382	[4469, 4010]
1405	[2501, 884]	3731	[5352, 2538]	6057	[7461, 3066]	8383	[7327, 107]
1406	[2502, 2295]	3732	[5474, 4946]	6058	[7271, 1570]	8384	[7524, 8919]
1407	[2503, 2504]	3733	[5475, 5476]	6059	[6654, 4170]	8385	[8920, 8921]
1408	[2505, 2506]	3734	[5477, 5478]	6060	[7462, 7451]	8386	[8922, 1609]
1409	[746, 2507]	3735	[5479, 5480]	6061	[1184, 7463]	8387	[6620, 7295]
1410	[2508, 2509]	3736	[5481, 641]	6062	[3012, 3339]	8388	[8923, 8924]
1411	[1894, 2510]	3737	[4668, 171]	6063	[7464, 7465]	8389	[6916, 7087]
1412	[2511, 661]	3738	[5482, 882]	6064	[4520, 7466]	8390	[8902, 7568]
1413	[2512, 2513]	3739	[833, 5483]	6065	[7467, 6366]	8391	[8626, 6939]
1414	[2514, 2515]	3740	[5484, 5485]	6066	[4576, 7404]	8392	[6619, 7139]
1415	[2516, 667]	3741	[5486, 5487]	6067	[7468, 7469]	8393	[8925, 7000]
1416	[2517, 2518]	3742	[5488, 2885]	6068	[4563, 7146]	8394	[7245, 8545]
1417	[2519, 2520]	3743	[194, 4842]	6069	[7470, 7471]	8395	[8926, 8927]
1418	[2521, 2522]	3744	[5489, 5209]	6070	[1122, 964]	8396	[1740, 7223]
1419	[2523, 612]	3745	[5490, 5491]	6071	[6904, 7191]	8397	[3987, 3268]
1420	[2524, 614]	3746	[5492, 4718]	6072	[7472, 1363]	8398	[6375, 8854]
1421	[2525, 2526]	3747	[2385, 5493]	6073	[7473, 7213]	8399	[4486, 4231]
1422	[2527, 2528]	3748	[2732, 4851]	6074	[6692, 7474]	8400	[412, 3420]
1423	[1902, 2202]	3749	[769, 5454]	6075	[3163, 4280]	8401	[8928, 3569]
1424	[2529, 2530]	3750	[5494, 671]	6076	[3445, 7024]	8402	[3339, 3721]

1425	[2531, 2532]	3751	[5495, 1805]	6077	[7475, 7398]	8403	[3878, 8796]
1426	[2525, 643]	3752	[5496, 220]	6078	[7476, 7477]	8404	[8929, 8930]
1427	[2533, 2534]	3753	[2772, 5497]	6079	[4225, 7478]	8405	[8931, 4579]
1428	[2535, 2536]	3754	[5498, 5499]	6080	[3723, 7479]	8406	[8846, 7052]
1429	[2537, 2538]	3755	[5500, 2296]	6081	[7006, 7480]	8407	[4488, 3527]
1430	[2539, 2540]	3756	[4813, 5501]	6082	[3166, 4607]	8408	[6974, 3446]
1431	[2541, 2542]	3757	[5084, 5502]	6083	[7391, 1562]	8409	[8932, 8933]
1432	[2543, 1889]	3758	[5503, 5504]	6084	[1079, 3116]	8410	[8934, 982]
1433	[2544, 2545]	3759	[4781, 5505]	6085	[7481, 7482]	8411	[1235, 6329]
1434	[2546, 2547]	3760	[60, 5506]	6086	[7401, 7082]	8412	[3073, 3586]
1435	[2548, 2549]	3761	[5507, 5508]	6087	[7483, 6666]	8413	[8935, 8936]
1436	[2550, 620]	3762	[2384, 835]	6088	[3564, 3935]	8414	[3830, 3318]
1437	[2551, 2552]	3763	[5509, 5510]	6089	[7180, 74]	8415	[6639, 6]
1438	[2517, 2553]	3764	[5511, 5512]	6090	[7484, 4514]	8416	[3290, 8593]
1439	[824, 2554]	3765	[2209, 2143]	6091	[7485, 3397]	8417	[8863, 1257]
1440	[2555, 2556]	3766	[5513, 5514]	6092	[7486, 472]	8418	[8937, 3277]
1441	[2557, 2558]	3767	[5515, 4772]	6093	[7487, 7488]	8419	[1593, 3893]
1442	[2559, 2560]	3768	[5516, 2738]	6094	[6731, 7489]	8420	[3119, 4059]
1443	[2561, 2562]	3769	[4851, 824]	6095	[7490, 1517]	8421	[3763, 4115]
1444	[2563, 2564]	3770	[4868, 5517]	6096	[7491, 344]	8422	[6787, 7404]
1445	[2118, 2565]	3771	[5518, 4952]	6097	[7492, 110]	8423	[7331, 3506]
1446	[2566, 2567]	3772	[2592, 153]	6098	[6963, 1576]	8424	[8938, 8832]
1447	[2568, 2569]	3773	[2848, 5519]	6099	[7493, 6691]	8425	[3212, 7555]
1448	[2570, 2571]	3774	[5520, 2610]	6100	[7431, 3712]	8426	[7482, 6899]
1449	[2572, 2573]	3775	[5521, 5522]	6101	[3137, 7494]	8427	[3079, 8939]
1450	[786, 2574]	3776	[5523, 5524]	6102	[7495, 4267]	8428	[8940, 8941]
1451	[2575, 2576]	3777	[5525, 4862]	6103	[6441, 3778]	8429	[8942, 6832]
1452	[2577, 2578]	3778	[5526, 2796]	6104	[7496, 7497]	8430	[7302, 8943]
1453	[2579, 2248]	3779	[5527, 5528]	6105	[6815, 7498]	8431	[8944, 8945]
1454	[2081, 2580]	3780	[5389, 4945]	6106	[7499, 7500]	8432	[1129, 6276]
1455	[2581, 2582]	3781	[5529, 5530]	6107	[3759, 3109]	8433	[8946, 7193]
1456	[2583, 150]	3782	[5531, 533]	6108	[7501, 7502]	8434	[8947, 7044]
1457	[2584, 2585]	3783	[2413, 5532]	6109	[3465, 7503]	8435	[8598, 8948]
1458	[2586, 2587]	3784	[5533, 5534]	6110	[7504, 3187]	8436	[8949, 7581]
1459	[238, 558]	3785	[678, 48]	6111	[7505, 3896]	8437	[90, 3009]
1460	[207, 2588]	3786	[2841, 5535]	6112	[3901, 3330]	8438	[3877, 3438]
1461	[2589, 2590]	3787	[5536, 5537]	6113	[7506, 7507]	8439	[8950, 6688]
1462	[2591, 2592]	3788	[5538, 5539]	6114	[1413, 3803]	8440	[7548, 7536]
1463	[2593, 548]	3789	[5540, 199]	6115	[4246, 3241]	8441	[3304, 7474]
1464	[2594, 2595]	3790	[781, 2825]	6116	[7508, 3547]	8442	[8951, 3506]
1465	[2596, 2597]	3791	[5525, 4647]	6117	[422, 1466]	8443	[3810, 3580]
1466	[2598, 2104]	3792	[5541, 4859]	6118	[4262, 6443]	8444	[8952, 8953]
1467	[701, 2599]	3793	[830, 5542]	6119	[7509, 7510]	8445	[4496, 424]
1468	[2600, 2601]	3794	[5543, 5544]	6120	[6931, 3760]	8446	[8954, 1686]

1469	[2602, 922]	3795	[5545, 5546]	6121	[4162, 7511]	8447	[4524, 3347]
1470	[168, 2093]	3796	[5238, 5041]	6122	[1224, 7512]	8448	[8955, 7525]
1471	[2603, 1929]	3797	[5547, 568]	6123	[7513, 7514]	8449	[8578, 7542]
1472	[2604, 2605]	3798	[5375, 142]	6124	[3464, 4526]	8450	[3638, 98]
1473	[2606, 2423]	3799	[5037, 5548]	6125	[7252, 7515]	8451	[8956, 8743]
1474	[2607, 2608]	3800	[864, 5549]	6126	[4402, 4241]	8452	[3324, 6683]
1475	[2609, 2610]	3801	[4897, 5019]	6127	[7516, 7517]	8453	[8957, 6596]
1476	[2611, 701]	3802	[2865, 2289]	6128	[7518, 7062]	8454	[3852, 279]
1477	[2612, 2613]	3803	[5550, 5551]	6129	[7519, 7497]	8455	[8958, 8959]
1478	[2614, 2615]	3804	[2630, 5552]	6130	[3838, 1044]	8456	[8951, 7011]
1479	[2616, 2617]	3805	[2958, 826]	6131	[393, 4325]	8457	[1220, 8960]
1480	[596, 1761]	3806	[5553, 5554]	6132	[7491, 3817]	8458	[323, 3195]
1481	[2618, 2619]	3807	[5192, 2962]	6133	[7520, 7521]	8459	[8961, 3094]
1482	[2620, 2621]	3808	[5450, 2859]	6134	[3122, 6844]	8460	[7553, 8962]
1483	[2622, 2623]	3809	[5191, 2961]	6135	[7522, 7523]	8461	[8963, 8964]
1484	[2624, 837]	3810	[5555, 2722]	6136	[7524, 7525]	8462	[3823, 4487]
1485	[2625, 2626]	3811	[5556, 5557]	6137	[1639, 6850]	8463	[8872, 7295]
1486	[2627, 2628]	3812	[2229, 5558]	6138	[426, 7526]	8464	[4130, 8791]
1487	[2629, 840]	3813	[5559, 5560]	6139	[7293, 7527]	8465	[3780, 3002]
1488	[2630, 2631]	3814	[2074, 2339]	6140	[398, 4419]	8466	[8856, 1137]
1489	[2632, 772]	3815	[5561, 5562]	6141	[3849, 1015]	8467	[3256, 7142]
1490	[2633, 2634]	3816	[5563, 5564]	6142	[1525, 4013]	8468	[6868, 1516]
1491	[2635, 2636]	3817	[5565, 4891]	6143	[7528, 7529]	8469	[3019, 3845]
1492	[2637, 2638]	3818	[5566, 5567]	6144	[7530, 71]	8470	[8521, 3476]
1493	[2639, 2640]	3819	[4667, 2859]	6145	[7531, 6784]	8471	[1437, 6858]
1494	[2641, 2642]	3820	[5568, 4746]	6146	[4413, 6813]	8472	[8965, 8718]
1495	[2643, 2644]	3821	[5385, 5569]	6147	[7532, 4351]	8473	[6507, 8966]
1496	[2645, 2646]	3822	[1985, 5570]	6148	[3112, 7533]	8474	[8967, 1616]
1497	[2155, 2647]	3823	[5571, 2930]	6149	[7490, 3112]	8475	[8864, 411]
1498	[2648, 1989]	3824	[5572, 5315]	6150	[7534, 3658]	8476	[8968, 4552]
1499	[1997, 2649]	3825	[5573, 5574]	6151	[7535, 7536]	8477	[6313, 1052]
1500	[2650, 944]	3826	[5575, 1793]	6152	[7537, 7538]	8478	[8969, 4204]
1501	[2651, 876]	3827	[5576, 2906]	6153	[7539, 7540]	8479	[3269, 1249]
1502	[2652, 2653]	3828	[5577, 5578]	6154	[3686, 6767]	8480	[8908, 4482]
1503	[2654, 2655]	3829	[2954, 2285]	6155	[7541, 3042]	8481	[3327, 7079]
1504	[2197, 2656]	3830	[2221, 5579]	6156	[1119, 7542]	8482	[8970, 388]
1505	[2657, 2658]	3831	[4707, 154]	6157	[7543, 7544]	8483	[8971, 3912]
1506	[2659, 2411]	3832	[4890, 2476]	6158	[7545, 1186]	8484	[3773, 76]
1507	[2660, 157]	3833	[5580, 2478]	6159	[6420, 306]	8485	[8663, 8660]
1508	[2661, 1985]	3834	[766, 5354]	6160	[7546, 3556]	8486	[1062, 8972]
1509	[2662, 2663]	3835	[5581, 5582]	6161	[7547, 7548]	8487	[8973, 1107]
1510	[2664, 2665]	3836	[5583, 5584]	6162	[7412, 7238]	8488	[8974, 3784]
1511	[2666, 2667]	3837	[36, 760]	6163	[7549, 7550]	8489	[1073, 3943]
1512	[2668, 2669]	3838	[5585, 2983]	6164	[15, 407]	8490	[3425, 6943]

1513	[2670, 805]	3839	[5586, 5587]	6165	[7551, 422]	8491	[7446, 8975]
1514	[2671, 2672]	3840	[5588, 5589]	6166	[3294, 7063]	8492	[8640, 8948]
1515	[2673, 701]	3841	[5409, 4853]	6167	[3179, 6718]	8493	[5553, 2282]
1516	[2674, 2675]	3842	[5590, 5591]	6168	[7552, 6488]	8494	[5946, 5412]
1517	[2136, 2676]	3843	[5472, 2197]	6169	[1481, 7198]	8495	[8402, 6063]
1518	[2677, 919]	3844	[5592, 2480]	6170	[7553, 7554]	8496	[8976, 8140]
1519	[2678, 2679]	3845	[4647, 4863]	6171	[4509, 7555]	8497	[8977, 5559]
1520	[2680, 2681]	3846	[5013, 5387]	6172	[7556, 4488]	8498	[5216, 2156]
1521	[1935, 2682]	3847	[5593, 241]	6173	[7557, 7558]	8499	[8978, 2646]
1522	[2683, 2684]	3848	[4909, 5147]	6174	[7559, 1200]	8500	[8979, 8104]
1523	[2685, 2686]	3849	[5012, 2706]	6175	[7560, 3136]	8501	[8039, 8400]
1524	[2687, 2106]	3850	[5594, 5595]	6176	[108, 7313]	8502	[2778, 7956]
1525	[2688, 2689]	3851	[5596, 5597]	6177	[3863, 383]	8503	[2577, 510]
1526	[2690, 807]	3852	[5344, 550]	6178	[7152, 7561]	8504	[8980, 4748]
1527	[2691, 2692]	3853	[2217, 5598]	6179	[7562, 396]	8505	[4649, 8267]
1528	[2693, 2694]	3854	[5599, 2695]	6180	[6774, 3516]	8506	[5049, 7959]
1529	[2695, 2696]	3855	[5600, 5133]	6181	[3739, 4305]	8507	[2821, 8981]
1530	[2228, 2697]	3856	[740, 2430]	6182	[7563, 7160]	8508	[4671, 8982]
1531	[777, 2402]	3857	[2426, 5601]	6183	[7564, 6880]	8509	[783, 8983]
1532	[1996, 2698]	3858	[5602, 741]	6184	[347, 978]	8510	[5565, 2476]
1533	[2699, 2700]	3859	[5603, 5604]	6185	[7565, 3669]	8511	[2911, 1942]
1534	[2701, 2702]	3860	[5605, 31]	6186	[7566, 7381]	8512	[8978, 7867]
1535	[2703, 2704]	3861	[817, 5606]	6187	[6674, 1607]	8513	[5551, 1775]
1536	[2705, 2706]	3862	[5607, 5428]	6188	[7567, 7568]	8514	[8252, 5920]
1537	[2707, 164]	3863	[837, 5608]	6189	[6334, 3483]	8515	[8984, 877]
1538	[2708, 2709]	3864	[2256, 1768]	6190	[4267, 6811]	8516	[8985, 4645]
1539	[2710, 2711]	3865	[2376, 2733]	6191	[7569, 7201]	8517	[8489, 1851]
1540	[2712, 2713]	3866	[1848, 2532]	6192	[7570, 3462]	8518	[2072, 8986]
1541	[2714, 2715]	3867	[2597, 500]	6193	[1642, 7240]	8519	[4810, 4874]
1542	[2716, 2717]	3868	[5609, 5610]	6194	[1719, 6976]	8520	[5580, 5199]
1543	[2718, 830]	3869	[4667, 676]	6195	[7571, 6879]	8521	[5401, 8095]
1544	[2719, 2720]	3870	[5611, 5612]	6196	[1753, 6959]	8522	[2662, 1867]
1545	[2721, 2722]	3871	[5613, 5467]	6197	[7572, 3833]	8523	[2728, 5966]
1546	[2723, 2724]	3872	[2516, 5614]	6198	[4090, 6764]	8524	[8987, 5856]
1547	[732, 2725]	3873	[5615, 5616]	6199	[7573, 7126]	8525	[2824, 2098]
1548	[2726, 2450]	3874	[5108, 5617]	6200	[4568, 7466]	8526	[8988, 5119]
1549	[2010, 557]	3875	[5618, 5619]	6201	[290, 4087]	8527	[8989, 5896]
1550	[771, 2727]	3876	[5194, 908]	6202	[7574, 7204]	8528	[8990, 8991]
1551	[2728, 2141]	3877	[5306, 817]	6203	[7575, 7576]	8529	[7865, 5780]
1552	[2253, 2676]	3878	[4777, 4640]	6204	[7296, 102]	8530	[8098, 8992]
1553	[1825, 2729]	3879	[5620, 5236]	6205	[7577, 7578]	8531	[2707, 2696]
1554	[2730, 2086]	3880	[2803, 759]	6206	[7579, 1159]	8532	[8993, 8994]
1555	[2731, 2732]	3881	[2408, 4844]	6207	[7580, 3188]	8533	[5856, 2003]
1556	[2733, 542]	3882	[2640, 687]	6208	[6747, 7581]	8534	[8289, 8995]

1557	[2734, 2735]	3883	[2593, 5621]	6209	[3243, 3623]	8535	[166, 6155]
1558	[2736, 2680]	3884	[5622, 2776]	6210	[7582, 6930]	8536	[8996, 2836]
1559	[2737, 2738]	3885	[5607, 4759]	6211	[3596, 7583]	8537	[8997, 5776]
1560	[2739, 836]	3886	[5623, 555]	6212	[3354, 6419]	8538	[764, 8471]
1561	[2684, 2740]	3887	[2340, 703]	6213	[3353, 995]	8539	[1796, 6040]
1562	[174, 869]	3888	[2749, 868]	6214	[7584, 4543]	8540	[8998, 5537]
1563	[2741, 2742]	3889	[2638, 2746]	6215	[7585, 3284]	8541	[8999, 8320]
1564	[2743, 2306]	3890	[5624, 5625]	6216	[7586, 4324]	8542	[5079, 7770]
1565	[1838, 1832]	3891	[5626, 5449]	6217	[7026, 3211]	8543	[9000, 2470]
1566	[2249, 2139]	3892	[2773, 5627]	6218	[7587, 3724]	8544	[2491, 2571]
1567	[2744, 2745]	3893	[5628, 5629]	6219	[3888, 7576]	8545	[9001, 8436]
1568	[2746, 614]	3894	[5630, 5631]	6220	[4574, 7274]	8546	[9002, 6179]
1569	[2534, 2747]	3895	[5632, 5633]	6221	[4163, 7588]	8547	[9003, 2521]
1570	[2215, 2748]	3896	[829, 5309]	6222	[6439, 7589]	8548	[175, 1973]
1571	[2749, 2750]	3897	[5634, 5635]	6223	[7590, 6409]	8549	[9004, 2170]
1572	[2751, 2228]	3898	[2404, 4912]	6224	[1537, 7591]	8550	[7683, 6113]
1573	[2752, 2753]	3899	[903, 5636]	6225	[7592, 6841]	8551	[9005, 7829]
1574	[2754, 2684]	3900	[5637, 4933]	6226	[4510, 1628]	8552	[1981, 9006]
1575	[2755, 2756]	3901	[5638, 5032]	6227	[4387, 3736]	8553	[2068, 4954]
1576	[859, 252]	3902	[5639, 2315]	6228	[6673, 1606]	8554	[2110, 736]
1577	[1834, 827]	3903	[5640, 5641]	6229	[7593, 7594]	8555	[5204, 5221]
1578	[2757, 730]	3904	[4947, 2263]	6230	[6621, 3715]	8556	[9007, 9008]
1579	[2519, 2758]	3905	[5642, 141]	6231	[7390, 7169]	8557	[9009, 4720]
1580	[2759, 2760]	3906	[5643, 5644]	6232	[6577, 3887]	8558	[8348, 5779]
1581	[2761, 2762]	3907	[5645, 228]	6233	[7595, 4059]	8559	[7942, 753]
1582	[2763, 2764]	3908	[5646, 2473]	6234	[6270, 1487]	8560	[5146, 4910]
1583	[2765, 2766]	3909	[1858, 5647]	6235	[3494, 88]	8561	[8142, 9010]
1584	[48, 2767]	3910	[5648, 766]	6236	[7596, 6283]	8562	[9011, 5058]
1585	[2768, 2769]	3911	[557, 2993]	6237	[3743, 7345]	8563	[2695, 164]
1586	[2770, 2771]	3912	[5649, 2305]	6238	[3726, 6590]	8564	[9012, 4950]
1587	[2772, 243]	3913	[5111, 5574]	6239	[7597, 7598]	8565	[7689, 8992]
1588	[2067, 2773]	3914	[5650, 5127]	6240	[3874, 1312]	8566	[9013, 9014]
1589	[2774, 2775]	3915	[5333, 2924]	6241	[7599, 7600]	8567	[7673, 2159]
1590	[2776, 2777]	3916	[5651, 5652]	6242	[1100, 7236]	8568	[9015, 9016]
1591	[2778, 2779]	3917	[5653, 2541]	6243	[4081, 3005]	8569	[9017, 5732]
1592	[2780, 2781]	3918	[5251, 4680]	6244	[6327, 3324]	8570	[5135, 5168]
1593	[2782, 2783]	3919	[5654, 2199]	6245	[1333, 1190]	8571	[9018, 4994]
1594	[2784, 2785]	3920	[5655, 890]	6246	[6920, 7601]	8572	[2567, 8260]
1595	[2786, 2663]	3921	[2847, 4630]	6247	[7602, 6641]	8573	[7763, 2644]
1596	[205, 2787]	3922	[5656, 2219]	6248	[6450, 4085]	8574	[2421, 6099]
1597	[2737, 2788]	3923	[2534, 2238]	6249	[4409, 368]	8575	[7823, 14]
1598	[2789, 2729]	3924	[178, 5549]	6250	[7029, 72]	8576	[8330, 8051]
1599	[1839, 1833]	3925	[4637, 2038]	6251	[188, 7603]	8577	[9019, 5841]
1600	[2790, 2791]	3926	[5657, 5506]	6252	[5659, 4839]	8578	[1920, 2708]

1601	[2792, 2793]	3927	[5512, 2149]	6253	[5193, 7604]	8579	[4666, 5450]
1602	[2794, 618]	3928	[5073, 5323]	6254	[7605, 7606]	8580	[9020, 5396]
1603	[2795, 2796]	3929	[1979, 2889]	6255	[7607, 5032]	8581	[9021, 2128]
1604	[2001, 1811]	3930	[5658, 5659]	6256	[1983, 2113]	8582	[5792, 6214]
1605	[2797, 2798]	3931	[5660, 5661]	6257	[4906, 2988]	8583	[1793, 756]
1606	[2799, 2800]	3932	[1934, 5662]	6258	[2845, 5441]	8584	[5207, 2475]
1607	[2801, 2802]	3933	[5663, 5664]	6259	[7608, 4869]	8585	[2919, 2918]
1608	[905, 197]	3934	[5665, 5067]	6260	[7609, 5244]	8586	[9022, 12]
1609	[2803, 36]	3935	[5666, 5667]	6261	[7610, 1965]	8587	[7976, 9023]
1610	[2804, 2393]	3936	[143, 5276]	6262	[7611, 2651]	8588	[9024, 9025]
1611	[2379, 196]	3937	[5668, 2102]	6263	[7612, 7613]	8589	[9026, 1816]
1612	[2805, 2806]	3938	[5669, 2367]	6264	[1861, 2686]	8590	[2202, 7763]
1613	[2807, 847]	3939	[5670, 5671]	6265	[7614, 57]	8591	[6138, 1822]
1614	[2808, 2343]	3940	[4961, 159]	6266	[5861, 7615]	8592	[9027, 8991]
1615	[2809, 2810]	3941	[836, 5672]	6267	[7616, 5677]	8593	[9028, 749]
1616	[2811, 811]	3942	[5673, 587]	6268	[4991, 5356]	8594	[1990, 8380]
1617	[2115, 2567]	3943	[779, 5674]	6269	[7617, 7618]	8595	[8178, 8294]
1618	[2812, 2813]	3944	[5675, 2397]	6270	[5323, 7619]	8596	[7778, 9029]
1619	[2814, 611]	3945	[5676, 5677]	6271	[5773, 2640]	8597	[773, 8126]
1620	[2815, 2816]	3946	[5678, 2540]	6272	[7620, 2566]	8598	[2258, 843]
1621	[2290, 2817]	3947	[507, 185]	6273	[2166, 2568]	8599	[9030, 7719]
1622	[2818, 1937]	3948	[5124, 2425]	6274	[5571, 1967]	8600	[4635, 5378]
1623	[2819, 1947]	3949	[5367, 5679]	6275	[5158, 561]	8601	[630, 801]
1624	[2820, 2821]	3950	[5680, 2427]	6276	[7621, 7622]	8602	[9031, 2842]
1625	[2822, 2823]	3951	[711, 711]	6277	[7623, 5401]	8603	[7845, 224]
1626	[2824, 2825]	3952	[5601, 2236]	6278	[2053, 7624]	8604	[2051, 8036]
1627	[2826, 2827]	3953	[4917, 5163]	6279	[2752, 5921]	8605	[2317, 882]
1628	[2828, 2829]	3954	[5681, 5679]	6280	[7625, 7626]	8606	[6018, 8483]
1629	[2830, 2187]	3955	[714, 716]	6281	[4771, 2789]	8607	[9032, 2774]
1630	[2831, 2832]	3956	[5679, 4915]	6282	[4757, 6072]	8608	[9033, 7677]
1631	[2833, 2834]	3957	[5682, 4916]	6283	[7627, 2108]	8609	[9034, 6153]
1632	[2835, 2836]	3958	[5682, 4805]	6284	[2523, 921]	8610	[8389, 5504]
1633	[2837, 13]	3959	[1908, 4917]	6285	[140, 2125]	8611	[9035, 6150]
1634	[2838, 2839]	3960	[2432, 2883]	6286	[7628, 2506]	8612	[1887, 9036]
1635	[2840, 2841]	3961	[5683, 2780]	6287	[7629, 156]	8613	[9037, 5010]
1636	[2842, 2170]	3962	[5314, 5684]	6288	[5572, 5684]	8614	[9038, 8459]
1637	[2843, 2844]	3963	[5685, 5686]	6289	[7630, 2162]	8615	[9039, 7982]
1638	[2845, 809]	3964	[5687, 2568]	6290	[733, 133]	8616	[2616, 8138]
1639	[2846, 784]	3965	[5688, 813]	6291	[7631, 6013]	8617	[2120, 6005]
1640	[2847, 1904]	3966	[5199, 5689]	6292	[5855, 7632]	8618	[1813, 9040]
1641	[2848, 2849]	3967	[5690, 5691]	6293	[7633, 4925]	8619	[5347, 2213]
1642	[820, 2850]	3968	[5592, 1987]	6294	[7634, 7635]	8620	[528, 8308]
1643	[2851, 2852]	3969	[5382, 5692]	6295	[7636, 53]	8621	[9041, 4627]
1644	[211, 1856]	3970	[2353, 1854]	6296	[671, 232]	8622	[7628, 5358]

1645	[2853, 2854]	3971	[2908, 5693]	6297	[5282, 7637]	8623	[2886, 2025]
1646	[2855, 2856]	3972	[1924, 5694]	6298	[7638, 6099]	8624	[9042, 839]
1647	[2857, 2858]	3973	[5669, 186]	6299	[7639, 7640]	8625	[8239, 7882]
1648	[2859, 677]	3974	[5023, 4846]	6300	[7607, 2535]	8626	[7718, 5608]
1649	[2860, 2008]	3975	[5574, 5695]	6301	[7641, 866]	8627	[9043, 9044]
1650	[2861, 2715]	3976	[2679, 5696]	6302	[5926, 2885]	8628	[9045, 8198]
1651	[2862, 2863]	3977	[5697, 5698]	6303	[7642, 2467]	8629	[6007, 5910]
1652	[2864, 2865]	3978	[5699, 5700]	6304	[190, 2658]	8630	[4837, 2339]
1653	[2225, 2866]	3979	[5701, 5702]	6305	[7643, 247]	8631	[8073, 7729]
1654	[1982, 2112]	3980	[5703, 5668]	6306	[7644, 6119]	8632	[5427, 9046]
1655	[2867, 2868]	3981	[5704, 5705]	6307	[2199, 6089]	8633	[7608, 5517]
1656	[2869, 2870]	3982	[4738, 4847]	6308	[7645, 6249]	8634	[9047, 4780]
1657	[601, 2871]	3983	[1784, 5706]	6309	[4996, 5670]	8635	[9048, 7759]
1658	[2872, 2026]	3984	[5707, 5418]	6310	[2125, 2209]	8636	[9049, 5712]
1659	[2873, 851]	3985	[4802, 5558]	6311	[7646, 5110]	8637	[6131, 7870]
1660	[2874, 572]	3986	[5708, 5709]	6312	[5747, 5003]	8638	[9050, 2966]
1661	[2875, 2829]	3987	[5309, 5404]	6313	[7647, 5664]	8639	[9051, 172]
1662	[679, 2767]	3988	[5710, 874]	6314	[5930, 1920]	8640	[2939, 7619]
1663	[2876, 2266]	3989	[5711, 5712]	6315	[7648, 2633]	8641	[2455, 815]
1664	[2877, 2878]	3990	[5551, 1938]	6316	[7649, 569]	8642	[9052, 8246]
1665	[2879, 2692]	3991	[5713, 4789]	6317	[5201, 2592]	8643	[6247, 9053]
1666	[601, 2880]	3992	[5714, 5715]	6318	[2796, 2221]	8644	[8077, 8289]
1667	[2881, 2882]	3993	[5311, 5716]	6319	[4633, 2241]	8645	[1789, 174]
1668	[2883, 2048]	3994	[5717, 4808]	6320	[892, 1869]	8646	[7799, 5764]
1669	[2884, 2085]	3995	[871, 5718]	6321	[7650, 2171]	8647	[5185, 2824]
1670	[2885, 189]	3996	[5719, 2948]	6322	[5040, 5239]	8648	[5247, 1920]
1671	[2886, 2887]	3997	[5720, 2753]	6323	[7651, 5977]	8649	[8114, 2819]
1672	[2161, 2888]	3998	[2981, 721]	6324	[7652, 4759]	8650	[9054, 4958]
1673	[656, 2889]	3999	[5721, 5430]	6325	[7653, 5853]	8651	[9055, 2252]
1674	[2890, 2891]	4000	[768, 2496]	6326	[1984, 5027]	8652	[8425, 7950]
1675	[642, 2526]	4001	[4785, 2942]	6327	[5147, 5024]	8653	[1799, 5756]
1676	[2892, 2893]	4002	[5722, 5723]	6328	[614, 7654]	8654	[6223, 4787]
1677	[2894, 2895]	4003	[2352, 1853]	6329	[7655, 5877]	8655	[2665, 2849]
1678	[1970, 639]	4004	[5724, 5725]	6330	[5052, 783]	8656	[2587, 4899]
1679	[2896, 2897]	4005	[5726, 5727]	6331	[217, 7656]	8657	[5603, 5610]
1680	[2898, 2787]	4006	[5002, 5728]	6332	[7657, 794]	8658	[180, 4762]
1681	[2899, 768]	4007	[5729, 2615]	6333	[7658, 7659]	8659	[7955, 2779]
1682	[2900, 2901]	4008	[5730, 1935]	6334	[7660, 5376]	8660	[9056, 7996]
1683	[2902, 2903]	4009	[5731, 5426]	6335	[6234, 2553]	8661	[2541, 2585]
1684	[941, 2904]	4010	[5635, 5732]	6336	[7661, 5044]	8662	[908, 61]
1685	[2905, 2698]	4011	[5733, 5734]	6337	[5702, 5807]	8663	[8185, 7681]
1686	[2906, 34]	4012	[5735, 5736]	6338	[7662, 2979]	8664	[5407, 5738]
1687	[2413, 2907]	4013	[5737, 5738]	6339	[2854, 5269]	8665	[8263, 8468]
1688	[2908, 1891]	4014	[5739, 5740]	6340	[788, 4767]	8666	[5534, 9057]

1689	[2909, 1823]	4015	[5741, 2180]	6341	[7663, 5811]	8667	[6185, 4649]
1690	[2910, 2911]	4016	[5742, 5743]	6342	[5027, 5570]	8668	[8438, 4639]
1691	[2912, 251]	4017	[5744, 5745]	6343	[7664, 598]	8669	[9058, 5485]
1692	[2913, 2914]	4018	[5746, 2417]	6344	[7665, 2812]	8670	[9029, 5181]
1693	[2915, 2916]	4019	[5747, 4983]	6345	[7666, 7667]	8671	[7994, 2315]
1694	[2917, 2918]	4020	[5748, 2000]	6346	[4999, 5841]	8672	[8180, 5085]
1695	[2357, 713]	4021	[5749, 5002]	6347	[5479, 7668]	8673	[8244, 8116]
1696	[2919, 2920]	4022	[5602, 2430]	6348	[4801, 7669]	8674	[9059, 5016]
1697	[2921, 2922]	4023	[5750, 2428]	6349	[2497, 7670]	8675	[5494, 5089]
1698	[2923, 2924]	4024	[5163, 2356]	6350	[7671, 5170]	8676	[6171, 1993]
1699	[2925, 801]	4025	[5751, 5752]	6351	[608, 1809]	8677	[5844, 6163]
1700	[2926, 2842]	4026	[5753, 2862]	6352	[2211, 4633]	8678	[6184, 4648]
1701	[2927, 2928]	4027	[2663, 5754]	6353	[7672, 6213]	8679	[9060, 5162]
1702	[562, 2894]	4028	[5755, 5756]	6354	[2069, 5071]	8680	[9061, 9062]
1703	[2929, 1970]	4029	[5757, 2189]	6355	[7673, 5888]	8681	[6010, 6004]
1704	[1928, 2165]	4030	[5758, 5759]	6356	[7674, 2652]	8682	[9063, 6024]
1705	[2930, 1968]	4031	[5760, 5761]	6357	[7675, 923]	8683	[9064, 9065]
1706	[832, 2931]	4032	[5181, 44]	6358	[7676, 7677]	8684	[9066, 8195]
1707	[2364, 2893]	4033	[5762, 2798]	6359	[7678, 7679]	8685	[828, 5436]
1708	[2932, 2933]	4034	[5763, 5764]	6360	[2435, 506]	8686	[9067, 7921]
1709	[2934, 2935]	4035	[2299, 5765]	6361	[7680, 7681]	8687	[9068, 2256]
1710	[2936, 219]	4036	[5766, 2109]	6362	[2711, 2226]	8688	[9069, 9070]
1711	[2937, 810]	4037	[5767, 5768]	6363	[7682, 6140]	8689	[5440, 9071]
1712	[2854, 2938]	4038	[2044, 5617]	6364	[7683, 1971]	8690	[5300, 5510]
1713	[2939, 2940]	4039	[5769, 5292]	6365	[7684, 5490]	8691	[5630, 5787]
1714	[2941, 2858]	4040	[5770, 2804]	6366	[7685, 4662]	8692	[623, 2724]
1715	[2942, 2938]	4041	[4822, 4651]	6367	[5291, 2051]	8693	[9072, 7953]
1716	[2943, 2944]	4042	[5771, 5299]	6368	[7686, 6151]	8694	[2638, 2524]
1717	[2945, 2946]	4043	[5772, 5773]	6369	[4848, 7687]	8695	[9073, 7942]
1718	[2947, 2948]	4044	[4986, 2657]	6370	[7688, 7689]	8696	[2478, 5689]
1719	[2949, 2950]	4045	[5774, 2330]	6371	[1806, 7690]	8697	[9074, 2857]
1720	[2951, 2383]	4046	[2917, 2920]	6372	[7691, 7692]	8698	[2369, 2602]
1721	[2642, 2952]	4047	[5775, 5776]	6373	[7693, 864]	8699	[2189, 7985]
1722	[2953, 509]	4048	[5777, 5778]	6374	[7694, 2309]	8700	[2723, 6043]
1723	[2954, 2955]	4049	[2270, 655]	6375	[6033, 7695]	8701	[4817, 9075]
1724	[2956, 2957]	4050	[4721, 5779]	6376	[7696, 2285]	8702	[9076, 2439]
1725	[2958, 2959]	4051	[2713, 1835]	6377	[2227, 4658]	8703	[8043, 8097]
1726	[519, 2814]	4052	[5230, 5780]	6378	[7697, 744]	8704	[9077, 7900]
1727	[2960, 922]	4053	[5781, 5782]	6379	[7698, 7699]	8705	[808, 5441]
1728	[2961, 2962]	4054	[5783, 5447]	6380	[7700, 201]	8706	[9078, 9065]
1729	[2180, 2963]	4055	[5784, 5785]	6381	[7701, 7702]	8707	[8100, 7708]
1730	[2964, 908]	4056	[1772, 2574]	6382	[2102, 5564]	8708	[1978, 9079]
1731	[2965, 2966]	4057	[5509, 5301]	6383	[7703, 212]	8709	[2744, 8375]
1732	[2967, 2708]	4058	[5786, 5787]	6384	[7704, 6065]	8710	[2881, 2235]

1733	[2968, 2969]	4059	[5788, 2147]	6385	[7705, 796]	8711	[2428, 5124]
1734	[2970, 2971]	4060	[5789, 2522]	6386	[6197, 615]	8712	[9080, 8004]
1735	[2972, 2973]	4061	[5790, 822]	6387	[7706, 7707]	8713	[9081, 7659]
1736	[2974, 2209]	4062	[2684, 5791]	6388	[5025, 7708]	8714	[4679, 5252]
1737	[2975, 2619]	4063	[5792, 4706]	6389	[7709, 2844]	8715	[9082, 5740]
1738	[1794, 715]	4064	[5793, 2148]	6390	[7710, 2095]	8716	[9083, 5925]
1739	[2976, 2977]	4065	[5451, 2153]	6391	[2720, 5274]	8717	[4644, 747]
1740	[2978, 2979]	4066	[32, 5674]	6392	[1786, 7711]	8718	[9084, 5370]
1741	[2980, 2981]	4067	[2654, 4986]	6393	[7712, 7713]	8719	[4798, 8986]
1742	[2982, 2983]	4068	[813, 5794]	6394	[6109, 5022]	8720	[9085, 7789]
1743	[2167, 2569]	4069	[5176, 648]	6395	[7714, 1900]	8721	[5581, 9086]
1744	[2984, 696]	4070	[5606, 4856]	6396	[7715, 4643]	8722	[8395, 6140]
1745	[2985, 2986]	4071	[5795, 2185]	6397	[7716, 7717]	8723	[5820, 4989]
1746	[2987, 2988]	4072	[1991, 1791]	6398	[7718, 838]	8724	[2308, 8174]
1747	[2989, 2990]	4073	[5796, 5797]	6399	[5652, 7719]	8725	[8473, 7992]
1748	[2991, 871]	4074	[5798, 5799]	6400	[2189, 690]	8726	[6242, 7915]
1749	[2992, 2993]	4075	[5800, 5801]	6401	[5624, 5069]	8727	[8153, 5985]
1750	[1879, 2458]	4076	[5802, 4672]	6402	[2732, 823]	8728	[6009, 2026]
1751	[2994, 248]	4077	[5730, 5662]	6403	[4809, 5718]	8729	[7971, 2029]
1752	[2603, 1899]	4078	[2812, 5803]	6404	[7720, 2603]	8730	[9087, 8123]
1753	[2995, 2996]	4079	[5804, 5805]	6405	[7721, 896]	8731	[7808, 5304]
1754	[2844, 1933]	4080	[5806, 5807]	6406	[2894, 7722]	8732	[903, 9088]
1755	[2567, 2997]	4081	[5808, 5809]	6407	[7723, 7724]	8733	[9089, 9090]
1756	[2531, 1849]	4082	[5810, 5811]	6408	[1810, 2002]	8734	[854, 2932]
1757	[2998, 2338]	4083	[5812, 5813]	6409	[5491, 2800]	8735	[8336, 2951]
1758	[2127, 2999]	4084	[5814, 5815]	6410	[7725, 4903]	8736	[7769, 5080]
1759	[44, 3000]	4085	[5816, 2562]	6411	[2768, 2242]	8737	[9091, 9092]
1760	[3001, 1194]	4086	[5817, 5440]	6412	[4881, 7726]	8738	[5749, 5965]
1761	[3002, 269]	4087	[567, 5066]	6413	[7727, 7728]	8739	[8131, 9093]
1762	[3003, 3004]	4088	[5818, 4990]	6414	[2076, 7729]	8740	[2223, 7726]
1763	[3005, 3006]	4089	[5819, 5416]	6415	[5616, 4665]	8741	[5368, 4884]
1764	[488, 3007]	4090	[5820, 5818]	6416	[7730, 7731]	8742	[202, 7756]
1765	[3008, 3]	4091	[5821, 4938]	6417	[5846, 7732]	8743	[9094, 9014]
1766	[3009, 1569]	4092	[768, 1762]	6418	[6228, 2564]	8744	[672, 8478]
1767	[3010, 3011]	4093	[5822, 5132]	6419	[2829, 5869]	8745	[2670, 37]
1768	[3012, 1346]	4094	[5823, 2547]	6420	[2876, 2337]	8746	[9095, 2702]
1769	[3013, 3014]	4095	[2202, 2643]	6421	[7733, 5480]	8747	[7617, 8317]
1770	[79, 3015]	4096	[5824, 2161]	6422	[7734, 4800]	8748	[9096, 2515]
1771	[3016, 3017]	4097	[2327, 3000]	6423	[516, 7669]	8749	[9097, 2977]
1772	[3018, 3019]	4098	[2646, 5825]	6424	[7735, 2140]	8750	[2833, 7892]
1773	[3020, 18]	4099	[5826, 5583]	6425	[6076, 7736]	8751	[2325, 5368]
1774	[3021, 3022]	4100	[5827, 4836]	6426	[2490, 2433]	8752	[9098, 660]
1775	[3023, 3024]	4101	[5828, 5829]	6427	[7737, 694]	8753	[8310, 2346]
1776	[3025, 1286]	4102	[5830, 4967]	6428	[7738, 5305]	8754	[6194, 4686]

1777	[3026, 976]	4103	[5831, 2384]	6429	[693, 7739]	8755	[9099, 2771]
1778	[27, 3027]	4104	[5832, 5833]	6430	[7740, 593]	8756	[5443, 5366]
1779	[3028, 3029]	4105	[5834, 5835]	6431	[2966, 7741]	8757	[4707, 5576]
1780	[472, 3030]	4106	[5836, 1987]	6432	[6026, 1902]	8758	[9019, 5000]
1781	[3031, 3032]	4107	[5215, 2664]	6433	[7742, 7743]	8759	[8155, 837]
1782	[3033, 3034]	4108	[5837, 5838]	6434	[7744, 203]	8760	[2380, 32]
1783	[3035, 3036]	4109	[5839, 2623]	6435	[7745, 5364]	8761	[9100, 729]
1784	[3037, 3038]	4110	[5840, 5336]	6436	[7746, 5587]	8762	[5126, 8434]
1785	[3039, 988]	4111	[2578, 511]	6437	[2653, 1847]	8763	[6213, 520]
1786	[3040, 310]	4112	[5841, 5842]	6438	[5248, 1902]	8764	[718, 7872]
1787	[3041, 3042]	4113	[5416, 5443]	6439	[5303, 40]	8765	[5664, 5509]
1788	[3043, 3044]	4114	[5843, 1888]	6440	[7747, 756]	8766	[4857, 2100]
1789	[3045, 1626]	4115	[5844, 148]	6441	[7748, 7749]	8767	[2199, 8283]
1790	[3046, 3047]	4116	[5242, 2687]	6442	[7750, 7751]	8768	[8130, 5992]
1791	[3048, 3049]	4117	[5845, 1857]	6443	[5970, 7752]	8769	[7710, 5054]
1792	[3050, 1425]	4118	[5846, 5847]	6444	[5486, 2043]	8770	[9101, 7854]
1793	[3051, 275]	4119	[5848, 630]	6445	[7753, 1852]	8771	[7891, 4687]
1794	[3052, 1359]	4120	[2319, 5849]	6446	[546, 1967]	8772	[5206, 4933]
1795	[3053, 1668]	4121	[5850, 5851]	6447	[6131, 7754]	8773	[9102, 8415]
1796	[489, 3054]	4122	[5852, 5539]	6448	[7755, 660]	8774	[9103, 1880]
1797	[3055, 3056]	4123	[5853, 5524]	6449	[5637, 1926]	8775	[5503, 8390]
1798	[332, 266]	4124	[5850, 5528]	6450	[43, 2327]	8776	[2150, 8009]
1799	[3057, 3058]	4125	[1890, 5693]	6451	[5330, 7637]	8777	[9104, 5725]
1800	[3059, 3060]	4126	[5430, 5736]	6452	[5585, 4864]	8778	[9088, 5328]
1801	[3061, 3062]	4127	[5854, 4825]	6453	[5918, 1989]	8779	[9105, 2015]
1802	[1757, 444]	4128	[2053, 4790]	6454	[7756, 2586]	8780	[2789, 1776]
1803	[3063, 3064]	4129	[5855, 2513]	6455	[2625, 6116]	8781	[5914, 5018]
1804	[3065, 3066]	4130	[5856, 215]	6456	[2028, 2145]	8782	[1768, 9079]
1805	[3067, 3068]	4131	[5857, 5781]	6457	[7757, 1895]	8783	[9106, 4978]
1806	[3069, 3070]	4132	[867, 2750]	6458	[7758, 7759]	8784	[9107, 5984]
1807	[3071, 3072]	4133	[5858, 5859]	6459	[2399, 5659]	8785	[6237, 7974]
1808	[3073, 1305]	4134	[5860, 5861]	6460	[2763, 7760]	8786	[8487, 9108]
1809	[3074, 384]	4135	[5862, 5863]	6461	[7761, 2305]	8787	[2934, 5349]
1810	[3075, 3076]	4136	[911, 5864]	6462	[7762, 5025]	8788	[512, 5799]
1811	[3077, 1417]	4137	[5076, 2693]	6463	[7763, 6170]	8789	[9109, 7820]
1812	[3078, 3079]	4138	[561, 5759]	6464	[7764, 46]	8790	[1936, 4928]
1813	[309, 3080]	4139	[232, 5865]	6465	[1841, 2878]	8791	[9110, 9111]
1814	[1171, 3081]	4140	[5075, 2175]	6466	[5345, 245]	8792	[2831, 9112]
1815	[3082, 1096]	4141	[5866, 5867]	6467	[5726, 7765]	8793	[777, 8370]
1816	[3083, 1542]	4142	[4874, 4833]	6468	[1985, 5028]	8794	[9113, 8482]
1817	[3011, 1354]	4143	[4650, 4823]	6469	[7766, 7767]	8795	[7847, 6210]
1818	[3084, 3085]	4144	[5868, 2055]	6470	[7768, 2090]	8796	[9114, 8395]
1819	[3086, 3087]	4145	[5741, 5618]	6471	[7769, 7770]	8797	[4987, 4843]
1820	[3088, 3060]	4146	[5869, 5257]	6472	[7771, 907]	8798	[5020, 4844]

1821	[3089, 3090]	4147	[4922, 568]	6473	[2134, 5082]	8799	[9115, 5254]
1822	[3091, 432]	4148	[5870, 2123]	6474	[842, 2739]	8800	[4683, 55]
1823	[3092, 3093]	4149	[5871, 5373]	6475	[7772, 7773]	8801	[9116, 8241]
1824	[3094, 340]	4150	[1778, 932]	6476	[7774, 5727]	8802	[8466, 7861]
1825	[3095, 3026]	4151	[2680, 5872]	6477	[7775, 7776]	8803	[1857, 6059]
1826	[3096, 3097]	4152	[5873, 5263]	6478	[33, 7777]	8804	[9117, 5293]
1827	[3098, 3099]	4153	[5874, 887]	6479	[7778, 758]	8805	[8467, 5596]
1828	[3100, 1459]	4154	[5875, 5715]	6480	[2850, 6127]	8806	[5918, 8201]
1829	[3101, 3102]	4155	[2790, 602]	6481	[6248, 530]	8807	[9118, 9008]
1830	[3103, 3104]	4156	[5876, 5877]	6482	[4673, 2030]	8808	[7790, 9086]
1831	[3105, 3106]	4157	[5878, 5879]	6483	[7779, 5268]	8809	[9119, 4837]
1832	[3107, 3108]	4158	[5880, 521]	6484	[944, 4687]	8810	[8134, 8017]
1833	[3109, 3110]	4159	[5881, 2626]	6485	[7780, 2472]	8811	[724, 2278]
1834	[3111, 1552]	4160	[5882, 2316]	6486	[5963, 7760]	8812	[7937, 5319]
1835	[3112, 1518]	4161	[5883, 2687]	6487	[5243, 2118]	8813	[5031, 157]
1836	[3113, 3114]	4162	[5884, 498]	6488	[5984, 7781]	8814	[5431, 224]
1837	[3115, 3116]	4163	[5885, 2762]	6489	[4736, 7782]	8815	[9120, 7613]
1838	[3117, 3118]	4164	[5886, 5271]	6490	[7783, 5670]	8816	[5957, 9121]
1839	[3119, 3120]	4165	[2203, 5887]	6491	[7784, 7785]	8817	[5006, 5381]
1840	[3121, 1711]	4166	[603, 5888]	6492	[7786, 5380]	8818	[2757, 927]
1841	[3122, 3123]	4167	[5889, 2174]	6493	[5492, 2057]	8819	[549, 6144]
1842	[3124, 3125]	4168	[5890, 4953]	6494	[7787, 4821]	8820	[9122, 865]
1843	[3126, 3127]	4169	[776, 2401]	6495	[5540, 5265]	8821	[8319, 9123]
1844	[3128, 3129]	4170	[5891, 2656]	6496	[604, 4821]	8822	[8276, 2463]
1845	[3130, 3131]	4171	[5892, 2275]	6497	[5899, 2754]	8823	[9124, 9125]
1846	[454, 3132]	4172	[5893, 5182]	6498	[7733, 7668]	8824	[7838, 4667]
1847	[371, 3133]	4173	[775, 5894]	6499	[7788, 7789]	8825	[9126, 9127]
1848	[3134, 3135]	4174	[1873, 536]	6500	[7790, 5582]	8826	[689, 7695]
1849	[3136, 3137]	4175	[5895, 5420]	6501	[7631, 2289]	8827	[1959, 5706]
1850	[3138, 3139]	4176	[5896, 5795]	6502	[7791, 2672]	8828	[9128, 5522]
1851	[3140, 3141]	4177	[5897, 2412]	6503	[4646, 4862]	8829	[634, 6129]
1852	[1109, 3142]	4178	[5898, 5899]	6504	[7792, 7793]	8830	[9129, 9044]
1853	[3143, 3144]	4179	[5900, 5901]	6505	[7794, 5490]	8831	[9130, 2504]
1854	[3145, 3146]	4180	[2987, 4907]	6506	[7795, 6006]	8832	[5754, 2840]
1855	[3147, 3148]	4181	[5902, 2412]	6507	[7796, 2617]	8833	[9131, 7940]
1856	[416, 3149]	4182	[5903, 5904]	6508	[7757, 2510]	8834	[9132, 2744]
1857	[418, 3150]	4183	[5905, 5906]	6509	[2499, 7797]	8835	[9133, 5988]
1858	[3151, 3152]	4184	[2665, 5519]	6510	[5983, 692]	8836	[4681, 9134]
1859	[1405, 3153]	4185	[5907, 5908]	6511	[7798, 2006]	8837	[863, 5150]
1860	[3154, 3155]	4186	[5909, 5910]	6512	[7799, 7800]	8838	[9135, 4893]
1861	[3156, 3157]	4187	[5911, 5912]	6513	[7801, 7802]	8839	[4632, 2212]
1862	[3158, 3159]	4188	[4760, 1801]	6514	[7803, 5102]	8840	[591, 9136]
1863	[476, 3160]	4189	[5913, 2990]	6515	[7804, 7805]	8841	[60, 9137]
1864	[3161, 3162]	4190	[5914, 5915]	6516	[5025, 7806]	8842	[2796, 7634]

1865	[3163, 1707]	4191	[5916, 596]	6517	[7807, 5303]	8843	[902, 4894]
1866	[3164, 3165]	4192	[5917, 5918]	6518	[7808, 2573]	8844	[5557, 9138]
1867	[3166, 3167]	4193	[4913, 2356]	6519	[2599, 820]	8845	[8345, 1910]
1868	[3168, 3169]	4194	[5919, 2434]	6520	[645, 2580]	8846	[2065, 6031]
1869	[3170, 3171]	4195	[4914, 2357]	6521	[524, 532]	8847	[8265, 8488]
1870	[3172, 1686]	4196	[2927, 5920]	6522	[5877, 7809]	8848	[6177, 2813]
1871	[3173, 3174]	4197	[5720, 5921]	6523	[7810, 2994]	8849	[2367, 9139]
1872	[318, 3175]	4198	[5922, 5923]	6524	[5125, 5606]	8850	[9140, 9071]
1873	[3176, 3177]	4199	[5924, 4828]	6525	[7811, 2560]	8851	[2542, 6199]
1874	[3178, 3179]	4200	[1923, 5925]	6526	[2949, 947]	8852	[820, 2780]
1875	[1627, 3180]	4201	[5926, 188]	6527	[7812, 599]	8853	[8359, 4684]
1876	[3181, 275]	4202	[5927, 4998]	6528	[5642, 5375]	8854	[8178, 9141]
1877	[3182, 3183]	4203	[5573, 5112]	6529	[2060, 6031]	8855	[9142, 9096]
1878	[1703, 1677]	4204	[5928, 5030]	6530	[7813, 2064]	8856	[5063, 9112]
1879	[3184, 3185]	4205	[5288, 2913]	6531	[7814, 578]	8857	[9143, 764]
1880	[3186, 3187]	4206	[762, 5929]	6532	[7815, 7816]	8858	[9144, 9145]
1881	[3188, 3189]	4207	[5930, 2967]	6533	[2805, 5955]	8859	[720, 8386]
1882	[3190, 3191]	4208	[2783, 2669]	6534	[7817, 7818]	8860	[5807, 8450]
1883	[3192, 3193]	4209	[2955, 218]	6535	[7622, 4937]	8861	[2900, 2902]
1884	[3194, 22]	4210	[5931, 2152]	6536	[6111, 6122]	8862	[2176, 2649]
1885	[3195, 3196]	4211	[5620, 2969]	6537	[7819, 7820]	8863	[5167, 5136]
1886	[3197, 1222]	4212	[5932, 735]	6538	[7821, 7822]	8864	[6181, 8982]
1887	[3198, 418]	4213	[2237, 2747]	6539	[588, 6070]	8865	[3661, 5338]
1888	[1513, 1188]	4214	[7, 4686]	6540	[7674, 231]	8866	[2628, 2488]
1889	[3199, 3200]	4215	[153, 5576]	6541	[7823, 7824]	8867	[640, 8029]
1890	[3201, 3202]	4216	[5164, 5098]	6542	[4916, 714]	8868	[6243, 8137]
1891	[3203, 1317]	4217	[5933, 5427]	6543	[715, 717]	8869	[7652, 5428]
1892	[3204, 3205]	4218	[5934, 227]	6544	[2429, 4917]	8870	[9146, 9147]
1893	[3206, 3207]	4219	[1933, 2923]	6545	[7825, 7672]	8871	[9148, 6018]
1894	[3208, 3209]	4220	[5883, 2105]	6546	[869, 1973]	8872	[8005, 7757]
1895	[1238, 1520]	4221	[5935, 2847]	6547	[4623, 848]	8873	[5316, 2388]
1896	[3210, 974]	4222	[5662, 2682]	6548	[7826, 7827]	8874	[6126, 2783]
1897	[3211, 1288]	4223	[2581, 2482]	6549	[7828, 7829]	8875	[9149, 7834]
1898	[3212, 3213]	4224	[5936, 5937]	6550	[7830, 7831]	8876	[5476, 1886]
1899	[3214, 3215]	4225	[2661, 5027]	6551	[5578, 2087]	8877	[9150, 515]
1900	[3177, 3149]	4226	[5462, 1983]	6552	[7832, 1976]	8878	[2643, 6170]
1901	[3216, 3217]	4227	[2644, 5938]	6553	[2256, 1978]	8879	[5763, 7800]
1902	[3218, 3219]	4228	[5939, 2775]	6554	[5770, 4789]	8880	[5195, 4836]
1903	[3220, 380]	4229	[5038, 1907]	6555	[7833, 7834]	8881	[5017, 5915]
1904	[3221, 3222]	4230	[5940, 5941]	6556	[6154, 167]	8882	[9022, 8474]
1905	[122, 3223]	4231	[5942, 2691]	6557	[7835, 544]	8883	[9151, 5220]
1906	[3224, 3225]	4232	[5943, 5094]	6558	[7836, 5473]	8884	[5584, 5273]
1907	[3226, 3227]	4233	[5944, 5945]	6559	[7837, 4711]	8885	[757, 9029]
1908	[382, 3228]	4234	[5946, 5947]	6560	[7651, 132]	8886	[5945, 9152]

1909	[3229, 3230]	4235	[5948, 5949]	6561	[2409, 4845]	8887	[2828, 6173]
1910	[3231, 3232]	4236	[5834, 2033]	6562	[7838, 5450]	8888	[9153, 9154]
1911	[3233, 1037]	4237	[5950, 4943]	6563	[5896, 2184]	8889	[9155, 2298]
1912	[3234, 1287]	4238	[5951, 5911]	6564	[4791, 7839]	8890	[9156, 8161]
1913	[3235, 3236]	4239	[5952, 5953]	6565	[7840, 2451]	8891	[938, 9157]
1914	[1166, 3237]	4240	[5954, 5955]	6566	[7841, 4735]	8892	[9158, 664]
1915	[3238, 3239]	4241	[5956, 5957]	6567	[7842, 594]	8893	[2585, 6002]
1916	[3240, 3241]	4242	[5947, 5413]	6568	[2080, 645]	8894	[5633, 2769]
1917	[3242, 455]	4243	[5958, 503]	6569	[7843, 7741]	8895	[2570, 2492]
1918	[3243, 3244]	4244	[942, 5959]	6570	[7844, 2756]	8896	[5970, 2944]
1919	[3245, 3246]	4245	[5960, 2636]	6571	[7845, 5432]	8897	[1813, 4828]
1920	[3247, 3248]	4246	[5961, 2401]	6572	[6204, 2390]	8898	[7863, 8267]
1921	[1471, 3249]	4247	[5746, 5531]	6573	[7846, 5863]	8899	[2846, 8983]
1922	[3250, 3251]	4248	[2442, 939]	6574	[6037, 1801]	8900	[9159, 8296]
1923	[3252, 3253]	4249	[5962, 5321]	6575	[7847, 7848]	8901	[11, 8474]
1924	[3254, 1303]	4250	[2897, 1986]	6576	[58, 5686]	8902	[7818, 8995]
1925	[3255, 3256]	4251	[5496, 5351]	6577	[5029, 2749]	8903	[8090, 8323]
1926	[1733, 3257]	4252	[5963, 2764]	6578	[7849, 5797]	8904	[5710, 2896]
1927	[3258, 1170]	4253	[5964, 2020]	6579	[7850, 6067]	8905	[9160, 2067]
1928	[3256, 954]	4254	[5965, 5728]	6580	[4733, 5879]	8906	[5372, 925]
1929	[3259, 3260]	4255	[5713, 2804]	6581	[7851, 2297]	8907	[9161, 2613]
1930	[3261, 1007]	4256	[785, 1772]	6582	[1760, 597]	8908	[2215, 9006]
1931	[3262, 3263]	4257	[2163, 1871]	6583	[2360, 2904]	8909	[9156, 8231]
1932	[3264, 3265]	4258	[5966, 4927]	6584	[1935, 5848]	8910	[7731, 7831]
1933	[1375, 3266]	4259	[5527, 5851]	6585	[7852, 508]	8911	[9162, 8423]
1934	[3267, 3268]	4260	[5967, 5968]	6586	[7853, 7854]	8912	[160, 6077]
1935	[3269, 3270]	4261	[5969, 5970]	6587	[7855, 5333]	8913	[5830, 8299]
1936	[3271, 3272]	4262	[5442, 5595]	6588	[6120, 5992]	8914	[6079, 572]
1937	[3273, 3274]	4263	[934, 5051]	6589	[497, 2396]	8915	[5786, 5631]
1938	[3275, 3276]	4264	[4737, 5971]	6590	[7856, 7857]	8916	[9163, 678]
1939	[1286, 3277]	4265	[2941, 5972]	6591	[4886, 7736]	8917	[8432, 4648]
1940	[3278, 3279]	4266	[5973, 2333]	6592	[7858, 6180]	8918	[2075, 8405]
1941	[3280, 3281]	4267	[4891, 2477]	6593	[7859, 7860]	8919	[9164, 8373]
1942	[3282, 3283]	4268	[5974, 5975]	6594	[626, 7861]	8920	[9131, 8196]
1943	[3284, 3285]	4269	[5976, 5509]	6595	[861, 7862]	8921	[877, 6137]
1944	[3286, 3287]	4270	[131, 5977]	6596	[7863, 4920]	8922	[2688, 2700]
1945	[3288, 3289]	4271	[5047, 874]	6597	[7864, 803]	8923	[9165, 2023]
1946	[3290, 3291]	4272	[5978, 645]	6598	[4742, 2868]	8924	[9166, 2714]
1947	[3292, 3293]	4273	[5094, 2827]	6599	[7865, 5231]	8925	[5635, 9167]
1948	[3294, 3295]	4274	[2901, 2903]	6600	[1866, 918]	8926	[4769, 1840]
1949	[3296, 3297]	4275	[216, 5055]	6601	[1868, 2840]	8927	[9168, 4889]
1950	[3298, 3299]	4276	[5979, 5980]	6602	[5086, 730]	8928	[2857, 5972]
1951	[3300, 3301]	4277	[5981, 2631]	6603	[6143, 608]	8929	[2459, 5344]
1952	[3302, 3303]	4278	[5982, 5983]	6604	[7866, 2952]	8930	[9169, 504]

1953	[3304, 3305]	4279	[5984, 5985]	6605	[7867, 5825]	8931	[2184, 8393]
1954	[3190, 3248]	4280	[5986, 4935]	6606	[7868, 1798]	8932	[5917, 2648]
1955	[1104, 3155]	4281	[5987, 5988]	6607	[7869, 60]	8933	[9170, 7909]
1956	[3306, 3307]	4282	[5402, 5989]	6608	[578, 6205]	8934	[801, 4695]
1957	[3308, 3309]	4283	[5990, 5691]	6609	[4839, 7870]	8935	[5873, 8291]
1958	[1194, 3310]	4284	[5187, 5991]	6610	[7645, 894]	8936	[5358, 7925]
1959	[1237, 1519]	4285	[5992, 5065]	6611	[2345, 736]	8937	[8191, 2500]
1960	[3311, 3312]	4286	[2998, 5021]	6612	[7871, 865]	8938	[5648, 1876]
1961	[3313, 3314]	4287	[5736, 2528]	6613	[4821, 2010]	8939	[9171, 6241]
1962	[3315, 3104]	4288	[2069, 4955]	6614	[5470, 7872]	8940	[5812, 7915]
1963	[3316, 3317]	4289	[5993, 2961]	6615	[7873, 7874]	8941	[940, 5953]
1964	[3318, 3319]	4290	[5994, 5995]	6616	[7875, 2181]	8942	[5042, 2545]
1965	[3320, 3160]	4291	[5981, 5552]	6617	[7876, 7679]	8943	[9172, 8388]
1966	[982, 3321]	4292	[842, 835]	6618	[7697, 7877]	8944	[8141, 798]
1967	[3322, 1707]	4293	[5996, 5401]	6619	[5831, 842]	8945	[9173, 2406]
1968	[1044, 3323]	4294	[4850, 823]	6620	[5964, 6092]	8946	[8322, 8091]
1969	[3324, 3325]	4295	[4711, 5997]	6621	[2713, 827]	8947	[688, 6033]
1970	[3326, 3327]	4296	[2783, 5312]	6622	[7878, 2760]	8948	[9174, 7735]
1971	[3328, 3329]	4297	[5998, 135]	6623	[7879, 6221]	8949	[2128, 8223]
1972	[3330, 3331]	4298	[5609, 5604]	6624	[4634, 5122]	8950	[2111, 7954]
1973	[3332, 3333]	4299	[5999, 2665]	6625	[7880, 4854]	8951	[5461, 4778]
1974	[3334, 3335]	4300	[6000, 5472]	6626	[7881, 7882]	8952	[7837, 6190]
1975	[475, 3336]	4301	[2967, 1921]	6627	[7883, 7884]	8953	[9175, 5463]
1976	[3329, 451]	4302	[5335, 5368]	6628	[7885, 2690]	8954	[7660, 2413]
1977	[3337, 3338]	4303	[6001, 4748]	6629	[7886, 4754]	8955	[198, 5265]
1978	[3339, 1347]	4304	[5790, 5232]	6630	[597, 1958]	8956	[5813, 7916]
1979	[3340, 3084]	4305	[5584, 2720]	6631	[7887, 873]	8957	[5275, 144]
1980	[3341, 3342]	4306	[2758, 4671]	6632	[7888, 2470]	8958	[8999, 9123]
1981	[1416, 3343]	4307	[2542, 6002]	6633	[7889, 5717]	8959	[5589, 2576]
1982	[3344, 3345]	4308	[6003, 5923]	6634	[901, 7890]	8960	[9176, 5551]
1983	[3346, 116]	4309	[836, 6004]	6635	[7891, 2376]	8961	[9177, 664]
1984	[3347, 3348]	4310	[2444, 6005]	6636	[2555, 5187]	8962	[9178, 4708]
1985	[3349, 467]	4311	[6006, 6007]	6637	[6114, 7892]	8963	[9179, 9154]
1986	[3350, 3351]	4312	[6008, 2069]	6638	[7893, 13]	8964	[9180, 5501]
1987	[1366, 3017]	4313	[4724, 6009]	6639	[7894, 7895]	8965	[1764, 4804]
1988	[3352, 3353]	4314	[6010, 5672]	6640	[7896, 7897]	8966	[8296, 2364]
1989	[1628, 3354]	4315	[2422, 6011]	6641	[7898, 1966]	8967	[7620, 2115]
1990	[3355, 1180]	4316	[6012, 5402]	6642	[7899, 5970]	8968	[9113, 7702]
1991	[3356, 3357]	4317	[2387, 5317]	6643	[7900, 7901]	8969	[6038, 8433]
1992	[3358, 3359]	4318	[6013, 2290]	6644	[2608, 6160]	8970	[9181, 1836]
1993	[3360, 3361]	4319	[6014, 612]	6645	[6235, 7902]	8971	[2551, 9075]
1994	[302, 3362]	4320	[6015, 6016]	6646	[8, 642]	8972	[9182, 7743]
1995	[1682, 3070]	4321	[6017, 2276]	6647	[7903, 4787]	8973	[7787, 605]
1996	[3363, 3364]	4322	[5993, 5192]	6648	[684, 5259]	8974	[6245, 7691]

1997	[3365, 3366]	4323	[2133, 1840]	6649	[5878, 2822]	8975	[9183, 5172]
1998	[3367, 3368]	4324	[6018, 2916]	6650	[691, 6175]	8976	[8788, 7145]
1999	[3369, 3370]	4325	[5647, 5929]	6651	[563, 7722]	8977	[6438, 6756]
2000	[3371, 3372]	4326	[6019, 862]	6652	[7904, 7905]	8978	[3329, 7309]
2001	[3373, 465]	4327	[6020, 5119]	6653	[4731, 7839]	8979	[1166, 3292]
2002	[3374, 3375]	4328	[6021, 2300]	6654	[754, 2697]	8980	[3738, 3366]
2003	[3376, 478]	4329	[6022, 2852]	6655	[1961, 1872]	8981	[4427, 6983]
2004	[3377, 1726]	4330	[5202, 4707]	6656	[4901, 7906]	8982	[9184, 957]
2005	[3378, 3379]	4331	[2696, 165]	6657	[7907, 5215]	8983	[9185, 7578]
2006	[3380, 1172]	4332	[6023, 6024]	6658	[7908, 7909]	8984	[9186, 1069]
2007	[1582, 3381]	4333	[6025, 2704]	6659	[7910, 7911]	8985	[4301, 3126]
2008	[3382, 1134]	4334	[6026, 2201]	6660	[7912, 2472]	8986	[9187, 1731]
2009	[3383, 3384]	4335	[6027, 6028]	6661	[7885, 806]	8987	[1143, 3097]
2010	[3385, 3386]	4336	[2306, 5473]	6662	[4911, 2418]	8988	[6708, 6602]
2011	[3387, 1527]	4337	[6029, 6030]	6663	[4894, 5636]	8989	[368, 7444]
2012	[3388, 3389]	4338	[5276, 4796]	6664	[726, 7913]	8990	[1087, 3449]
2013	[3390, 3391]	4339	[5307, 883]	6665	[7914, 812]	8991	[9188, 7299]
2014	[3392, 3393]	4340	[6031, 1789]	6666	[7915, 7916]	8992	[3521, 3906]
2015	[3394, 3395]	4341	[6032, 5864]	6667	[7737, 7739]	8993	[9189, 4127]
2016	[3396, 3397]	4342	[5261, 6033]	6668	[7917, 6118]	8994	[9190, 9191]
2017	[3398, 3399]	4343	[6034, 2405]	6669	[2721, 7918]	8995	[4082, 3006]
2018	[76, 3400]	4344	[1969, 638]	6670	[140, 2974]	8996	[1378, 1555]
2019	[3401, 3402]	4345	[6035, 2716]	6671	[7919, 4771]	8997	[1709, 3872]
2020	[1430, 3403]	4346	[4873, 4811]	6672	[7920, 5396]	8998	[4129, 1258]
2021	[3404, 3405]	4347	[2024, 2887]	6673	[2923, 2801]	8999	[4374, 7316]
2022	[3406, 1651]	4348	[6036, 2469]	6674	[7638, 2422]	9000	[452, 1012]
2023	[3407, 3408]	4349	[6014, 921]	6675	[4910, 5024]	9001	[8671, 1272]
2024	[3409, 3410]	4350	[173, 5402]	6676	[7921, 4661]	9002	[4432, 6774]
2025	[1693, 1004]	4351	[6021, 5765]	6677	[707, 554]	9003	[4544, 4063]
2026	[3317, 3411]	4352	[6037, 4774]	6678	[5266, 4689]	9004	[8623, 8936]
2027	[3412, 3413]	4353	[6038, 2304]	6679	[7922, 7923]	9005	[4525, 3045]
2028	[3414, 1216]	4354	[6039, 6040]	6680	[2037, 4638]	9006	[9192, 9193]
2029	[3415, 3416]	4355	[4872, 1954]	6681	[7924, 7732]	9007	[1567, 3806]
2030	[3417, 1759]	4356	[6041, 6042]	6682	[2506, 7925]	9008	[9194, 7003]
2031	[3267, 1060]	4357	[623, 6043]	6683	[7926, 7927]	9009	[6556, 8877]
2032	[3418, 3419]	4358	[4846, 4704]	6684	[5187, 5814]	9010	[1496, 4227]
2033	[3420, 3421]	4359	[6044, 4765]	6685	[7928, 2578]	9011	[7034, 3393]
2034	[3422, 1459]	4360	[6045, 6046]	6686	[554, 2320]	9012	[6600, 7480]
2035	[3423, 3237]	4361	[191, 4768]	6687	[2214, 1981]	9013	[7566, 6882]
2036	[3424, 1687]	4362	[5472, 5891]	6688	[7929, 5386]	9014	[9195, 9196]
2037	[3425, 3426]	4363	[6047, 134]	6689	[6194, 8]	9015	[9197, 3498]
2038	[3427, 3428]	4364	[231, 2653]	6690	[7606, 4904]	9016	[9198, 9199]
2039	[3326, 3429]	4365	[6048, 5280]	6691	[890, 146]	9017	[4197, 4269]
2040	[3430, 3431]	4366	[6049, 1853]	6692	[7930, 1946]	9018	[7276, 1098]

2041	[3432, 3433]	4367	[5778, 5591]	6693	[5348, 7687]	9019	[1539, 4421]
2042	[3434, 3286]	4368	[581, 6050]	6694	[7931, 7932]	9020	[7414, 6399]
2043	[3435, 3436]	4369	[6051, 5774]	6695	[2022, 2207]	9021	[9200, 3557]
2044	[3437, 3331]	4370	[5198, 1964]	6696	[7933, 7934]	9022	[8630, 6837]
2045	[1145, 3438]	4371	[883, 6052]	6697	[7935, 7936]	9023	[3303, 3129]
2046	[3439, 3440]	4372	[6053, 6054]	6698	[7937, 5422]	9024	[8658, 6287]
2047	[3441, 3442]	4373	[2591, 5202]	6699	[5482, 880]	9025	[9201, 9202]
2048	[3443, 3444]	4374	[5271, 1783]	6700	[7938, 5723]	9026	[4583, 3011]
2049	[3445, 283]	4375	[2856, 5406]	6701	[7939, 7940]	9027	[1647, 6896]
2050	[3446, 3447]	4376	[6055, 1945]	6702	[7634, 5579]	9028	[8616, 6975]
2051	[3448, 1709]	4377	[5662, 5848]	6703	[6148, 5106]	9029	[6796, 1590]
2052	[3449, 1173]	4378	[6056, 5957]	6704	[7941, 7942]	9030	[9203, 9204]
2053	[3450, 3451]	4379	[6057, 6058]	6705	[7943, 670]	9031	[7563, 3609]
2054	[3452, 3453]	4380	[6059, 6060]	6706	[7944, 883]	9032	[9205, 6727]
2055	[3454, 3455]	4381	[6061, 4714]	6707	[7945, 5983]	9033	[3668, 1062]
2056	[3456, 3457]	4382	[6062, 6063]	6708	[5508, 2758]	9034	[6598, 3570]
2057	[3458, 3459]	4383	[6064, 6065]	6709	[4744, 7860]	9035	[8894, 7535]
2058	[3460, 3461]	4384	[6066, 6067]	6710	[2727, 7946]	9036	[1222, 4142]
2059	[3462, 3463]	4385	[6068, 2029]	6711	[7835, 1884]	9037	[6401, 6706]
2060	[3464, 3045]	4386	[6069, 6070]	6712	[7947, 6194]	9038	[269, 1038]
2061	[3465, 3466]	4387	[5243, 4838]	6713	[7948, 6212]	9039	[9206, 9207]
2062	[3467, 3468]	4388	[6071, 6072]	6714	[7949, 7950]	9040	[3079, 4313]
2063	[3469, 3470]	4389	[6073, 767]	6715	[7951, 5573]	9041	[9208, 1042]
2064	[3471, 3472]	4390	[674, 2332]	6716	[199, 5194]	9042	[9209, 9210]
2065	[3473, 3474]	4391	[1897, 2699]	6717	[1826, 7952]	9043	[9211, 1649]
2066	[3475, 3476]	4392	[6074, 1916]	6718	[7953, 7773]	9044	[9212, 9213]
2067	[3477, 1140]	4393	[6075, 4897]	6719	[736, 7954]	9045	[1752, 1441]
2068	[3478, 3479]	4394	[5683, 2850]	6720	[7955, 7956]	9046	[4517, 300]
2069	[3480, 451]	4395	[6076, 4887]	6721	[4959, 7957]	9047	[984, 8911]
2070	[3481, 1453]	4396	[5322, 1839]	6722	[7958, 2773]	9048	[1345, 4478]
2071	[3482, 1302]	4397	[1961, 6077]	6723	[7886, 7959]	9049	[1497, 6429]
2072	[465, 3483]	4398	[6078, 2352]	6724	[698, 5865]	9050	[7330, 8569]
2073	[3484, 3029]	4399	[6079, 564]	6725	[7709, 1932]	9051	[3137, 8571]
2074	[3485, 3244]	4400	[6080, 5279]	6726	[4854, 2846]	9052	[6351, 7503]
2075	[3486, 1705]	4401	[6081, 812]	6727	[7960, 4820]	9053	[6757, 1029]
2076	[3487, 3488]	4402	[6082, 5947]	6728	[5048, 7711]	9054	[6459, 6583]
2077	[3489, 3490]	4403	[6083, 637]	6729	[5264, 901]	9055	[8811, 4322]
2078	[1561, 3491]	4404	[681, 6084]	6730	[5544, 2635]	9056	[7602, 3686]
2079	[3492, 3493]	4405	[5007, 6085]	6731	[7961, 2524]	9057	[3588, 3539]
2080	[119, 1747]	4406	[1916, 502]	6732	[7962, 1912]	9058	[3958, 6679]
2081	[1570, 3437]	4407	[5437, 2543]	6733	[7963, 1999]	9059	[3078, 4312]
2082	[3494, 3495]	4408	[6086, 867]	6734	[1909, 5163]	9060	[8956, 9214]
2083	[3496, 3497]	4409	[5337, 6087]	6735	[5680, 2424]	9061	[6257, 6405]
2084	[3096, 1144]	4410	[6088, 2922]	6736	[5124, 5601]	9062	[9215, 9216]

2085	[3498, 3499]	4411	[6089, 5964]	6737	[2690, 2053]	9063	[9217, 8779]
2086	[3500, 1517]	4412	[2381, 5654]	6738	[7782, 5971]	9064	[16, 408]
2087	[3501, 3502]	4413	[570, 6090]	6739	[2443, 940]	9065	[9218, 1025]
2088	[445, 1456]	4414	[1836, 6091]	6740	[2947, 5340]	9066	[9219, 9220]
2089	[3503, 3504]	4415	[2019, 6092]	6741	[721, 7964]	9067	[77, 9221]
2090	[3505, 1352]	4416	[6093, 5514]	6742	[7965, 876]	9068	[1348, 3339]
2091	[3506, 3507]	4417	[6094, 6095]	6743	[7966, 914]	9069	[7212, 9222]
2092	[3508, 3509]	4418	[6096, 6097]	6744	[7967, 7968]	9070	[9223, 9224]
2093	[1323, 3510]	4419	[1835, 828]	6745	[7959, 4755]	9071	[4237, 326]
2094	[1705, 3511]	4420	[2714, 6098]	6746	[7897, 7969]	9072	[6324, 1261]
2095	[3084, 1202]	4421	[6099, 6011]	6747	[5511, 2148]	9073	[1417, 4278]
2096	[1200, 114]	4422	[6100, 6101]	6748	[7970, 5482]	9074	[3311, 7561]
2097	[3512, 3513]	4423	[5800, 6102]	6749	[7971, 4673]	9075	[3717, 4048]
2098	[3514, 3515]	4424	[4772, 2681]	6750	[7972, 7973]	9076	[9225, 8654]
2099	[3232, 3516]	4425	[6103, 6104]	6751	[546, 2930]	9077	[8649, 4020]
2100	[3517, 1126]	4426	[6105, 6106]	6752	[6232, 2951]	9078	[1221, 4141]
2101	[3518, 1027]	4427	[6107, 5530]	6753	[5224, 2541]	9079	[9226, 6872]
2102	[3519, 3520]	4428	[2244, 6108]	6754	[5281, 186]	9080	[7344, 7435]
2103	[3521, 3522]	4429	[6109, 620]	6755	[2995, 7974]	9081	[1421, 4381]
2104	[3523, 3524]	4430	[6110, 2420]	6756	[5808, 6239]	9082	[6520, 6902]
2105	[3525, 3526]	4431	[6111, 5705]	6757	[7975, 2071]	9083	[1231, 6390]
2106	[3527, 3528]	4432	[4857, 619]	6758	[1952, 7976]	9084	[1310, 3829]
2107	[3529, 3216]	4433	[6112, 6113]	6759	[4833, 7895]	9085	[9227, 7589]
2108	[3530, 269]	4434	[6114, 2834]	6760	[1999, 7625]	9086	[9228, 7154]
2109	[3531, 3532]	4435	[6115, 5573]	6761	[5346, 5975]	9087	[3156, 391]
2110	[3533, 3534]	4436	[5881, 6116]	6762	[7977, 2191]	9088	[1681, 3132]
2111	[3535, 3536]	4437	[6117, 6118]	6763	[730, 928]	9089	[7251, 9229]
2112	[3537, 3538]	4438	[533, 6119]	6764	[7978, 2817]	9090	[9230, 9231]
2113	[3345, 3539]	4439	[5644, 127]	6765	[2125, 2142]	9091	[4041, 8715]
2114	[277, 3433]	4440	[6120, 5064]	6766	[7979, 2888]	9092	[9232, 9233]
2115	[3540, 448]	4441	[2088, 2606]	6767	[7980, 5708]	9093	[4208, 4301]
2116	[3541, 3542]	4442	[6121, 2084]	6768	[5827, 4693]	9094	[3227, 7107]
2117	[3543, 3544]	4443	[5704, 6122]	6769	[2029, 4674]	9095	[9234, 1419]
2118	[3200, 3545]	4444	[6123, 4939]	6770	[5615, 4664]	9096	[3056, 4516]
2119	[1302, 1040]	4445	[6124, 5011]	6771	[2427, 5602]	9097	[1759, 8504]
2120	[20, 3351]	4446	[1963, 6009]	6772	[7981, 5766]	9098	[3210, 7096]
2121	[3546, 1310]	4447	[5880, 4626]	6773	[2601, 7982]	9099	[8548, 3205]
2122	[3547, 3548]	4448	[4951, 5323]	6774	[7983, 7984]	9100	[3503, 4449]
2123	[3549, 3550]	4449	[6125, 2774]	6775	[235, 7985]	9101	[8896, 4376]
2124	[3551, 3504]	4450	[6126, 2668]	6776	[7986, 7987]	9102	[1277, 104]
2125	[3552, 3553]	4451	[6127, 5184]	6777	[7988, 2595]	9103	[7445, 7498]
2126	[3554, 3555]	4452	[695, 4905]	6778	[7989, 7990]	9104	[6388, 8737]
2127	[3010, 1353]	4453	[919, 6128]	6779	[7991, 7992]	9105	[3554, 6671]
2128	[3556, 1751]	4454	[2398, 6129]	6780	[7924, 5847]	9106	[4268, 4198]

2129	[3557, 3499]	4455	[5745, 6130]	6781	[7993, 7897]	9107	[361, 9204]
2130	[3558, 106]	4456	[2400, 6131]	6782	[7994, 5882]	9108	[411, 4273]
2131	[966, 1592]	4457	[881, 6090]	6783	[2899, 2407]	9109	[3021, 7427]
2132	[3559, 3560]	4458	[6132, 6133]	6784	[7995, 7996]	9110	[1692, 1003]
2133	[3561, 1709]	4459	[6134, 6135]	6785	[7997, 5005]	9111	[9235, 9236]
2134	[1488, 3037]	4460	[6136, 6137]	6786	[7998, 7999]	9112	[9237, 9238]
2135	[3562, 3563]	4461	[6138, 2909]	6787	[5793, 5512]	9113	[466, 299]
2136	[3564, 3565]	4462	[6139, 5482]	6788	[2402, 8000]	9114	[989, 398]
2137	[3566, 3567]	4463	[821, 5232]	6789	[8001, 8002]	9115	[8949, 6748]
2138	[3568, 3569]	4464	[6140, 832]	6790	[8003, 8004]	9116	[4143, 9239]
2139	[1403, 346]	4465	[6141, 727]	6791	[50, 1954]	9117	[8906, 4558]
2140	[3570, 1560]	4466	[4702, 5791]	6792	[8005, 1894]	9118	[7424, 7165]
2141	[3571, 427]	4467	[6142, 2742]	6793	[4652, 4716]	9119	[9225, 6422]
2142	[3572, 3573]	4468	[6143, 1808]	6794	[7699, 4974]	9120	[7242, 6677]
2143	[3574, 3575]	4469	[5105, 5092]	6795	[8006, 8007]	9121	[9240, 3171]
2144	[3576, 3325]	4470	[5344, 6144]	6796	[7629, 5385]	9122	[8904, 1156]
2145	[3413, 1178]	4471	[1914, 5294]	6797	[6075, 2342]	9123	[6961, 8666]
2146	[3577, 3295]	4472	[6145, 2495]	6798	[5022, 621]	9124	[4033, 1629]
2147	[3578, 3579]	4473	[1824, 2789]	6799	[2498, 4657]	9125	[9241, 3808]
2148	[397, 990]	4474	[5309, 5542]	6800	[498, 892]	9126	[9217, 6700]
2149	[3580, 1599]	4475	[6146, 6147]	6801	[5658, 2400]	9127	[9242, 3285]
2150	[3432, 278]	4476	[5708, 2181]	6802	[5200, 4872]	9128	[81, 1624]
2151	[3581, 3582]	4477	[6148, 5092]	6803	[8008, 5911]	9129	[7311, 7527]
2152	[3583, 3039]	4478	[6149, 2713]	6804	[2286, 8009]	9130	[7382, 4290]
2153	[3584, 3585]	4479	[6150, 6151]	6805	[8010, 4730]	9131	[6654, 3148]
2154	[3586, 1306]	4480	[1865, 917]	6806	[4675, 5978]	9132	[3540, 4337]
2155	[3587, 3588]	4481	[5638, 2535]	6807	[1912, 751]	9133	[71, 7030]
2156	[3589, 3590]	4482	[4761, 181]	6808	[8011, 8012]	9134	[6890, 7465]
2157	[3591, 3592]	4483	[151, 1993]	6809	[8013, 4883]	9135	[9243, 352]
2158	[3593, 3594]	4484	[2843, 1932]	6810	[8014, 2847]	9136	[1127, 4288]
2159	[3595, 282]	4485	[6152, 6153]	6811	[2007, 8015]	9137	[9244, 4031]
2160	[3596, 3597]	4486	[6154, 6155]	6812	[2485, 5426]	9138	[8765, 4119]
2161	[3598, 3599]	4487	[6156, 6157]	6813	[2032, 5835]	9139	[9245, 6404]
2162	[3600, 298]	4488	[6158, 6060]	6814	[5133, 8016]	9140	[3659, 3350]
2163	[1663, 3601]	4489	[6159, 237]	6815	[6103, 5829]	9141	[6742, 4340]
2164	[3351, 1639]	4490	[5416, 6160]	6816	[8017, 58]	9142	[4222, 4058]
2165	[3602, 3200]	4491	[6161, 6162]	6817	[7881, 2260]	9143	[7557, 4094]
2166	[3603, 3604]	4492	[2446, 5035]	6818	[1977, 229]	9144	[1388, 6438]
2167	[3605, 3606]	4493	[147, 6163]	6819	[6068, 4673]	9145	[8689, 6820]
2168	[3607, 1574]	4494	[6164, 5476]	6820	[5066, 8018]	9146	[8664, 9246]
2169	[3608, 3020]	4495	[2424, 5602]	6821	[2396, 892]	9147	[9247, 9248]
2170	[3609, 3610]	4496	[5676, 6165]	6822	[8019, 2273]	9148	[6496, 6483]
2171	[3611, 3584]	4497	[5453, 770]	6823	[8020, 806]	9149	[1641, 1080]
2172	[3612, 1646]	4498	[5293, 1915]	6824	[5131, 8021]	9150	[4125, 8496]

2173	[3613, 3614]	4499	[6166, 2386]	6825	[8022, 212]	9151	[7580, 3920]
2174	[3615, 3616]	4500	[6167, 2389]	6826	[8023, 8024]	9152	[6596, 7150]
2175	[3617, 3618]	4501	[6158, 6168]	6827	[2556, 5814]	9153	[1049, 6972]
2176	[3619, 3380]	4502	[5659, 6131]	6828	[8025, 5463]	9154	[9249, 7550]
2177	[1159, 3620]	4503	[2904, 2233]	6829	[8026, 4713]	9155	[6840, 9250]
2178	[3621, 3622]	4504	[6169, 2999]	6830	[6221, 2371]	9156	[7432, 7221]
2179	[3485, 3623]	4505	[6170, 5938]	6831	[8027, 4818]	9157	[9251, 1206]
2180	[1314, 3624]	4506	[6171, 152]	6832	[6053, 5805]	9158	[1462, 8688]
2181	[3625, 471]	4507	[6172, 2344]	6833	[8028, 5160]	9159	[6487, 3866]
2182	[3626, 1390]	4508	[6112, 1971]	6834	[7748, 4964]	9160	[9252, 1439]
2183	[3627, 3628]	4509	[2875, 6173]	6835	[2000, 7626]	9161	[9253, 1187]
2184	[1299, 3629]	4510	[6174, 5054]	6836	[5481, 8029]	9162	[9254, 8634]
2185	[1722, 3630]	4511	[2550, 5022]	6837	[8030, 8031]	9163	[7215, 8557]
2186	[1502, 3631]	4512	[5983, 6175]	6838	[8032, 1815]	9164	[9255, 426]
2187	[1409, 3632]	4513	[2139, 6176]	6839	[8033, 2561]	9165	[6911, 4039]
2188	[3633, 3634]	4514	[6177, 5803]	6840	[8034, 2245]	9166	[9209, 9256]
2189	[3635, 28]	4515	[543, 1884]	6841	[8035, 7728]	9167	[9257, 3575]
2190	[3636, 3047]	4516	[4690, 5629]	6842	[2469, 8036]	9168	[7267, 4207]
2191	[3637, 3638]	4517	[5376, 2907]	6843	[8037, 173]	9169	[9258, 6357]
2192	[3639, 3640]	4518	[2023, 2208]	6844	[8038, 8039]	9170	[4557, 8907]
2193	[3641, 3642]	4519	[2025, 4896]	6845	[8040, 1953]	9171	[1541, 8695]
2194	[3643, 3644]	4520	[6178, 5229]	6846	[8041, 8042]	9172	[8626, 8526]
2195	[3120, 3645]	4521	[6179, 6180]	6847	[7740, 2183]	9173	[9259, 3140]
2196	[1495, 3646]	4522	[5931, 4979]	6848	[5000, 5842]	9174	[8926, 7538]
2197	[3647, 3648]	4523	[2853, 2942]	6849	[8043, 591]	9175	[8973, 3703]
2198	[3649, 3650]	4524	[2495, 947]	6850	[809, 5442]	9176	[9260, 7394]
2199	[3651, 3652]	4525	[1808, 609]	6851	[8044, 5271]	9177	[3912, 1266]
2200	[3244, 1556]	4526	[6181, 5249]	6852	[5418, 2204]	9178	[7421, 6336]
2201	[3653, 3114]	4527	[5804, 6054]	6853	[8045, 8046]	9179	[6949, 1474]
2202	[3654, 3655]	4528	[6182, 5632]	6854	[2394, 791]	9180	[8518, 6418]
2203	[3656, 3657]	4529	[6183, 2158]	6855	[8046, 8047]	9181	[1091, 3389]
2204	[3658, 1564]	4530	[203, 2586]	6856	[8048, 6093]	9182	[1402, 345]
2205	[3659, 20]	4531	[6184, 6185]	6857	[7704, 8049]	9183	[9261, 1071]
2206	[3630, 3094]	4532	[6186, 6187]	6858	[620, 5023]	9184	[1825, 1776]
2207	[3660, 3661]	4533	[872, 6188]	6859	[8050, 2079]	9185	[5287, 8227]
2208	[1651, 1653]	4534	[6189, 2485]	6860	[8051, 8052]	9186	[49, 4872]
2209	[280, 3266]	4535	[1773, 5153]	6861	[8053, 8054]	9187	[9262, 2268]
2210	[3662, 3290]	4536	[6190, 5997]	6862	[8055, 7776]	9188	[9263, 5896]
2211	[24, 3663]	4537	[803, 6159]	6863	[8056, 8057]	9189	[5737, 5408]
2212	[3664, 3665]	4538	[6191, 5036]	6864	[1855, 2597]	9190	[8360, 9264]
2213	[1480, 3601]	4539	[5719, 5340]	6865	[8058, 5243]	9191	[5413, 7816]
2214	[3666, 3667]	4540	[6192, 1893]	6866	[2780, 6127]	9192	[2374, 8287]
2215	[3668, 3669]	4541	[6193, 4664]	6867	[8059, 2229]	9193	[9265, 9266]
2216	[3670, 3671]	4542	[926, 6194]	6868	[5828, 6104]	9194	[9267, 5773]

2217	[3672, 1118]	4543	[6195, 6196]	6869	[4661, 8056]	9195	[637, 8051]
2218	[3673, 3674]	4544	[210, 2222]	6870	[8060, 192]	9196	[9268, 129]
2219	[3675, 3676]	4545	[2524, 6197]	6871	[6217, 4975]	9197	[2666, 5141]
2220	[3677, 1422]	4546	[6198, 4631]	6872	[658, 8061]	9198	[6224, 5748]
2221	[3678, 3167]	4547	[2585, 6199]	6873	[825, 2959]	9199	[9269, 2487]
2222	[3679, 3680]	4548	[5975, 2213]	6874	[2089, 8062]	9200	[2306, 5227]
2223	[1756, 443]	4549	[5515, 2680]	6875	[8063, 2717]	9201	[9270, 8398]
2224	[3681, 3682]	4550	[6200, 5508]	6876	[8064, 5734]	9202	[9271, 8106]
2225	[3469, 1567]	4551	[2111, 737]	6877	[5555, 7918]	9203	[7616, 6165]
2226	[3683, 3684]	4552	[146, 6201]	6878	[5687, 2167]	9204	[2675, 2299]
2227	[1251, 1253]	4553	[128, 4782]	6879	[8065, 5984]	9205	[7662, 5266]
2228	[1065, 3685]	4554	[6202, 6203]	6880	[8066, 8067]	9206	[2172, 5696]
2229	[3686, 3687]	4555	[6204, 6205]	6881	[2544, 210]	9207	[9272, 5557]
2230	[3688, 3689]	4556	[5001, 5965]	6882	[8068, 8067]	9208	[5210, 5692]
2231	[3690, 445]	4557	[55, 6206]	6883	[6086, 2749]	9209	[767, 2407]
2232	[3691, 1374]	4558	[6207, 6106]	6884	[8069, 2947]	9210	[9273, 4946]
2233	[3692, 3693]	4559	[1972, 5645]	6885	[2660, 2216]	9211	[4923, 663]
2234	[3694, 3695]	4560	[6208, 1852]	6886	[8070, 5635]	9212	[7904, 8213]
2235	[3696, 3697]	4561	[563, 2895]	6887	[5618, 2963]	9213	[38, 2018]
2236	[1031, 3443]	4562	[2564, 857]	6888	[8071, 7751]	9214	[9274, 2664]
2237	[3698, 3699]	4563	[6049, 2353]	6889	[7832, 5645]	9215	[5898, 5904]
2238	[3700, 3701]	4564	[5761, 5535]	6890	[8072, 2395]	9216	[9275, 709]
2239	[1715, 3702]	4565	[2984, 4905]	6891	[8073, 2077]	9217	[5068, 5625]
2240	[3703, 1108]	4566	[6209, 6210]	6892	[8074, 8075]	9218	[9276, 2744]
2241	[3704, 3705]	4567	[6211, 5456]	6893	[6062, 8076]	9219	[929, 5849]
2242	[3706, 3707]	4568	[4769, 2677]	6894	[8077, 7818]	9220	[9277, 8087]
2243	[3610, 118]	4569	[2281, 5554]	6895	[855, 2933]	9221	[9278, 503]
2244	[20, 1638]	4570	[1990, 6212]	6896	[8078, 8079]	9222	[9279, 6133]
2245	[3708, 1177]	4571	[4776, 6213]	6897	[4772, 5872]	9223	[9280, 9125]
2246	[3365, 3709]	4572	[4705, 6214]	6898	[8080, 1939]	9224	[9281, 8099]
2247	[3710, 3614]	4573	[4930, 2343]	6899	[8081, 4966]	9225	[2117, 4838]
2248	[3711, 1403]	4574	[5297, 4981]	6900	[2559, 8082]	9226	[5965, 9282]
2249	[3712, 108]	4575	[6215, 1942]	6901	[1867, 5754]	9227	[4944, 5390]
2250	[3654, 3713]	4576	[6216, 2129]	6902	[8083, 5083]	9228	[7859, 4745]
2251	[3714, 3715]	4577	[6217, 1896]	6903	[8084, 7990]	9229	[9283, 1951]
2252	[3716, 3717]	4578	[6193, 5616]	6904	[2141, 8085]	9230	[8040, 7976]
2253	[3718, 3719]	4579	[6218, 6219]	6905	[8086, 8087]	9231	[5560, 2839]
2254	[3399, 3720]	4580	[5277, 2902]	6906	[6159, 8088]	9232	[2179, 5618]
2255	[1346, 3721]	4581	[6220, 6221]	6907	[8089, 5078]	9233	[6130, 5062]
2256	[3722, 3013]	4582	[5377, 4636]	6908	[2791, 603]	9234	[5189, 7934]
2257	[3723, 3724]	4583	[2490, 2431]	6909	[8090, 8091]	9235	[9284, 9145]
2258	[1645, 3725]	4584	[6222, 6223]	6910	[8089, 1843]	9236	[9285, 9053]
2259	[3726, 3727]	4585	[6224, 1999]	6911	[6220, 2370]	9237	[9286, 2973]
2260	[3728, 1522]	4586	[6225, 596]	6912	[8092, 4771]	9238	[8299, 7639]

2261	[3729, 3730]	4587	[6226, 2648]	6913	[5088, 5351]	9239	[8209, 6058]
2262	[3731, 3732]	4588	[624, 5598]	6914	[753, 2856]	9240	[2177, 9287]
2263	[3733, 3734]	4589	[2188, 5218]	6915	[8093, 8094]	9241	[9288, 2857]
2264	[1395, 1114]	4590	[6227, 6228]	6916	[2548, 8095]	9242	[8316, 7618]
2265	[3735, 3736]	4591	[2733, 6229]	6917	[8096, 8015]	9243	[2657, 191]
2266	[3737, 3738]	4592	[6230, 2732]	6918	[590, 8097]	9244	[8334, 7710]
2267	[3739, 3501]	4593	[5286, 5182]	6919	[8098, 7972]	9245	[5429, 5735]
2268	[3740, 3741]	4594	[850, 5250]	6920	[2566, 4995]	9246	[9289, 8054]
2269	[3742, 1669]	4595	[6231, 5643]	6921	[5928, 174]	9247	[4826, 9264]
2270	[3743, 1340]	4596	[6174, 2095]	6922	[7626, 8099]	9248	[9108, 580]
2271	[3744, 3745]	4597	[6232, 2382]	6923	[8100, 7806]	9249	[1771, 8125]
2272	[3746, 3126]	4598	[5757, 235]	6924	[8101, 6030]	9250	[9290, 2163]
2273	[3747, 3748]	4599	[6233, 6234]	6925	[2100, 5247]	9251	[2070, 9291]
2274	[3749, 428]	4600	[6235, 6236]	6926	[8102, 6018]	9252	[2114, 2566]
2275	[3750, 3751]	4601	[2569, 2352]	6927	[8103, 8104]	9253	[5074, 2174]
2276	[3752, 109]	4602	[2109, 162]	6928	[8105, 8106]	9254	[8253, 750]
2277	[3753, 3754]	4603	[2771, 2059]	6929	[8107, 5562]	9255	[8445, 1827]
2278	[3755, 3756]	4604	[6082, 5412]	6930	[8093, 6201]	9256	[9292, 5290]
2279	[479, 3606]	4605	[6237, 2996]	6931	[8108, 1822]	9257	[5471, 2196]
2280	[3757, 1008]	4606	[832, 5949]	6932	[2346, 8109]	9258	[1940, 2284]
2281	[1570, 3330]	4607	[6238, 6239]	6933	[5939, 5115]	9259	[5874, 5056]
2282	[3758, 3064]	4608	[6240, 6241]	6934	[5508, 2520]	9260	[5639, 5882]
2283	[3759, 3760]	4609	[6242, 5813]	6935	[8110, 1829]	9261	[2192, 5752]
2284	[3761, 1033]	4610	[6243, 6244]	6936	[2655, 190]	9262	[375, 4320]
2285	[3762, 432]	4611	[6032, 912]	6937	[5884, 2396]	9263	[7194, 1696]
2286	[3763, 322]	4612	[6245, 586]	6938	[8111, 744]	9264	[4093, 7558]
2287	[3764, 3620]	4613	[786, 1773]	6939	[7882, 2261]	9265	[7050, 6641]
2288	[3765, 3766]	4614	[649, 567]	6940	[8, 2525]	9266	[9293, 3520]
2289	[3767, 1553]	4615	[6246, 6247]	6941	[2488, 2433]	9267	[3442, 6991]
2290	[3768, 3769]	4616	[6248, 522]	6942	[7836, 5227]	9268	[8503, 259]
2291	[3770, 3771]	4617	[2729, 1777]	6943	[8112, 5246]	9269	[1155, 8905]
2292	[3772, 3773]	4618	[6249, 895]	6944	[1967, 5033]	9270	[481, 7243]
2293	[962, 3774]	4619	[6059, 6168]	6945	[565, 6084]	9271	[7570, 6726]
2294	[3775, 3776]	4620	[6250, 2863]	6946	[2885, 7603]	9272	[4377, 8765]
2295	[3777, 3778]	4621	[5106, 5093]	6947	[8113, 2140]	9273	[6940, 8720]
2296	[3779, 494]	4622	[154, 2906]	6948	[8114, 1946]	9274	[9294, 4235]
2297	[3780, 3530]	4623	[3961, 1591]	6949	[1782, 5272]	9275	[8575, 4445]
2298	[3781, 1142]	4624	[4482, 1428]	6950	[5871, 925]	9276	[4114, 4055]
2299	[359, 3782]	4625	[6251, 4522]	6951	[8115, 2877]	9277	[9295, 7273]
2300	[3783, 3784]	4626	[6252, 6253]	6952	[1995, 2905]	9278	[1121, 963]
2301	[3785, 3786]	4627	[3461, 4097]	6953	[7983, 8116]	9279	[9296, 8960]
2302	[1640, 1028]	4628	[6254, 4571]	6954	[8117, 4690]	9280	[3003, 4615]
2303	[486, 3787]	4629	[6255, 6256]	6955	[8118, 5641]	9281	[8827, 6528]
2304	[3788, 422]	4630	[6257, 3436]	6956	[8119, 8120]	9282	[9297, 3823]

2305	[3789, 3790]	4631	[407, 4066]	6957	[8121, 7822]	9283	[7280, 7583]
2306	[23, 1086]	4632	[6258, 3704]	6958	[8122, 8123]	9284	[3535, 6994]
2307	[3791, 3792]	4633	[6259, 1758]	6959	[2556, 5991]	9285	[8719, 9298]
2308	[3793, 3794]	4634	[6260, 3233]	6960	[8031, 5534]	9286	[4466, 6795]
2309	[3795, 3359]	4635	[3450, 6261]	6961	[8124, 8125]	9287	[3289, 95]
2310	[3796, 3797]	4636	[6262, 6263]	6962	[505, 2]	9288	[317, 4467]
2311	[3047, 3798]	4637	[6264, 372]	6963	[5067, 5392]	9289	[6604, 8752]
2312	[3799, 3800]	4638	[6265, 6266]	6964	[8020, 2690]	9290	[8798, 3173]
2313	[3801, 3447]	4639	[6267, 1468]	6965	[5457, 8126]	9291	[8577, 6860]
2314	[3802, 3803]	4640	[6268, 3870]	6966	[5414, 7622]	9292	[9299, 6569]
2315	[3804, 3805]	4641	[6269, 1388]	6967	[8127, 8128]	9293	[5943, 2826]
2316	[3806, 3807]	4642	[6270, 436]	6968	[7866, 8129]	9294	[7914, 5688]
2317	[3808, 1647]	4643	[6271, 3881]	6969	[8130, 5064]	9295	[2545, 2222]
2318	[3809, 1727]	4644	[1207, 3347]	6970	[2636, 8131]	9296	[5466, 8342]
2319	[3810, 1598]	4645	[3302, 3128]	6971	[2331, 675]	9297	[4908, 5942]
2320	[1533, 3811]	4646	[6272, 6273]	6972	[8132, 636]	9298	[10, 2120]
2321	[3812, 3813]	4647	[6274, 6275]	6973	[8115, 1841]	9299	[5954, 2806]
2322	[3814, 1292]	4648	[1151, 3343]	6974	[1790, 1992]		
2323	[3164, 3309]	4649	[6276, 1204]	6975	[8133, 5342]		
2324	[3815, 3816]	4650	[985, 6277]	6976	[2948, 5341]		
2325	[3817, 3818]	4651	[6278, 1240]	6977	[8134, 57]		

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	1551	1	3102	0	4653	0	6204	0	7755	0
1	0	1552	1	3103	0	4654	1	6205	1	7756	1
2	0	1553	0	3104	1	4655	0	6206	0	7757	1
3	0	1554	1	3105	1	4656	0	6207	1	7758	1
4	0	1555	0	3106	0	4657	1	6208	1	7759	1
5	0	1556	0	3107	0	4658	0	6209	1	7760	0
6	0	1557	0	3108	1	4659	1	6210	0	7761	1
7	0	1558	1	3109	0	4660	0	6211	0	7762	0
8	1	1559	1	3110	1	4661	0	6212	0	7763	1
9	0	1560	0	3111	0	4662	0	6213	0	7764	1
10	1	1561	1	3112	1	4663	0	6214	0	7765	1
11	0	1562	1	3113	1	4664	1	6215	0	7766	0
12	1	1563	0	3114	1	4665	1	6216	1	7767	0
13	0	1564	1	3115	1	4666	0	6217	0	7768	1
14	1	1565	1	3116	0	4667	1	6218	0	7769	0
15	0	1566	0	3117	1	4668	1	6219	0	7770	0
16	0	1567	1	3118	0	4669	1	6220	1	7771	0
17	1	1568	1	3119	1	4670	0	6221	0	7772	0
18	0	1569	1	3120	1	4671	0	6222	1	7773	0
19	0	1570	1	3121	0	4672	1	6223	0	7774	1

20	1	1571	0	3122	0	4673	0	6224	1	7775	1
21	1	1572	1	3123	0	4674	1	6225	1	7776	1
22	0	1573	0	3124	0	4675	1	6226	0	7777	0
23	0	1574	0	3125	1	4676	1	6227	0	7778	0
24	1	1575	1	3126	0	4677	0	6228	0	7779	0
25	1	1576	0	3127	1	4678	0	6229	0	7780	1
26	1	1577	0	3128	1	4679	1	6230	1	7781	0
27	0	1578	0	3129	1	4680	1	6231	0	7782	0
28	0	1579	1	3130	1	4681	0	6232	0	7783	0
29	1	1580	1	3131	0	4682	1	6233	0	7784	0
30	0	1581	1	3132	1	4683	1	6234	1	7785	0
31	0	1582	0	3133	1	4684	1	6235	0	7786	1
32	0	1583	0	3134	0	4685	0	6236	0	7787	0
33	0	1584	0	3135	0	4686	0	6237	0	7788	1
34	1	1585	1	3136	1	4687	0	6238	0	7789	1
35	1	1586	0	3137	1	4688	1	6239	0	7790	1
36	0	1587	0	3138	1	4689	0	6240	1	7791	0
37	0	1588	0	3139	1	4690	0	6241	1	7792	0
38	1	1589	1	3140	0	4691	0	6242	0	7793	1
39	0	1590	0	3141	1	4692	0	6243	1	7794	1
40	1	1591	1	3142	0	4693	0	6244	0	7795	1
41	1	1592	1	3143	0	4694	1	6245	0	7796	0
42	0	1593	1	3144	1	4695	1	6246	1	7797	0
43	1	1594	0	3145	0	4696	1	6247	1	7798	0
44	1	1595	0	3146	0	4697	1	6248	1	7799	0
45	0	1596	0	3147	1	4698	0	6249	1	7800	1
46	1	1597	1	3148	0	4699	0	6250	0	7801	0
47	0	1598	1	3149	0	4700	1	6251	1	7802	0
48	0	1599	1	3150	1	4701	1	6252	0	7803	1
49	1	1600	1	3151	0	4702	0	6253	1	7804	1
50	1	1601	1	3152	0	4703	0	6254	1	7805	0
51	1	1602	1	3153	1	4704	1	6255	1	7806	1
52	0	1603	1	3154	1	4705	1	6256	1	7807	0
53	1	1604	1	3155	0	4706	1	6257	1	7808	0
54	1	1605	0	3156	1	4707	0	6258	0	7809	1
55	0	1606	0	3157	0	4708	1	6259	1	7810	1
56	1	1607	1	3158	1	4709	0	6260	1	7811	1
57	0	1608	1	3159	1	4710	0	6261	1	7812	0
58	0	1609	0	3160	0	4711	1	6262	1	7813	0
59	1	1610	1	3161	1	4712	1	6263	0	7814	0
60	1	1611	0	3162	0	4713	1	6264	1	7815	1
61	0	1612	1	3163	0	4714	1	6265	1	7816	1
62	0	1613	0	3164	0	4715	1	6266	1	7817	0
63	0	1614	1	3165	1	4716	0	6267	0	7818	1

64	1	1615	1	3166	0	4717	1	6268	0	7819	1
65	0	1616	1	3167	1	4718	1	6269	1	7820	0
66	0	1617	0	3168	1	4719	1	6270	1	7821	1
67	0	1618	0	3169	0	4720	1	6271	0	7822	0
68	0	1619	1	3170	1	4721	1	6272	0	7823	1
69	1	1620	0	3171	0	4722	1	6273	0	7824	0
70	0	1621	0	3172	1	4723	0	6274	1	7825	1
71	1	1622	0	3173	0	4724	1	6275	1	7826	0
72	0	1623	0	3174	0	4725	1	6276	0	7827	1
73	0	1624	0	3175	0	4726	1	6277	0	7828	0
74	0	1625	1	3176	1	4727	1	6278	0	7829	0
75	0	1626	0	3177	0	4728	0	6279	0	7830	0
76	1	1627	1	3178	1	4729	1	6280	0	7831	1
77	1	1628	0	3179	1	4730	1	6281	0	7832	0
78	1	1629	1	3180	1	4731	1	6282	1	7833	0
79	0	1630	1	3181	1	4732	0	6283	0	7834	1
80	0	1631	1	3182	1	4733	1	6284	0	7835	0
81	1	1632	1	3183	0	4734	1	6285	0	7836	1
82	1	1633	1	3184	1	4735	0	6286	0	7837	1
83	1	1634	0	3185	0	4736	1	6287	0	7838	1
84	1	1635	1	3186	0	4737	1	6288	1	7839	1
85	0	1636	0	3187	1	4738	0	6289	1	7840	0
86	0	1637	1	3188	0	4739	1	6290	0	7841	0
87	1	1638	0	3189	0	4740	0	6291	0	7842	0
88	0	1639	0	3190	0	4741	0	6292	1	7843	0
89	1	1640	0	3191	1	4742	1	6293	1	7844	0
90	1	1641	1	3192	0	4743	1	6294	0	7845	0
91	0	1642	1	3193	1	4744	0	6295	1	7846	1
92	1	1643	0	3194	0	4745	1	6296	1	7847	0
93	1	1644	0	3195	0	4746	0	6297	0	7848	1
94	1	1645	1	3196	0	4747	0	6298	1	7849	1
95	0	1646	1	3197	0	4748	1	6299	1	7850	0
96	1	1647	0	3198	1	4749	0	6300	1	7851	1
97	0	1648	1	3199	0	4750	0	6301	1	7852	1
98	0	1649	0	3200	1	4751	0	6302	1	7853	0
99	1	1650	1	3201	0	4752	0	6303	0	7854	1
100	1	1651	1	3202	1	4753	0	6304	0	7855	0
101	1	1652	0	3203	0	4754	0	6305	0	7856	1
102	0	1653	1	3204	0	4755	1	6306	1	7857	0
103	1	1654	0	3205	0	4756	0	6307	0	7858	0
104	1	1655	0	3206	0	4757	1	6308	1	7859	1
105	0	1656	1	3207	0	4758	1	6309	1	7860	0
106	1	1657	0	3208	0	4759	0	6310	1	7861	1
107	1	1658	0	3209	0	4760	1	6311	1	7862	0

108	1	1659	0	3210	1	4761	0	6312	1	7863	1
109	1	1660	0	3211	0	4762	0	6313	1	7864	0
110	1	1661	1	3212	0	4763	1	6314	0	7865	1
111	0	1662	1	3213	1	4764	1	6315	0	7866	0
112	1	1663	0	3214	1	4765	0	6316	0	7867	0
113	1	1664	1	3215	0	4766	0	6317	0	7868	1
114	0	1665	1	3216	0	4767	0	6318	0	7869	0
115	0	1666	0	3217	0	4768	0	6319	1	7870	1
116	1	1667	0	3218	1	4769	1	6320	1	7871	0
117	0	1668	1	3219	1	4770	1	6321	0	7872	0
118	1	1669	1	3220	0	4771	0	6322	1	7873	0
119	1	1670	0	3221	0	4772	0	6323	1	7874	0
120	1	1671	1	3222	1	4773	1	6324	1	7875	1
121	1	1672	1	3223	0	4774	0	6325	1	7876	0
122	1	1673	0	3224	1	4775	1	6326	0	7877	0
123	0	1674	1	3225	0	4776	0	6327	0	7878	0
124	1	1675	1	3226	0	4777	1	6328	0	7879	0
125	0	1676	1	3227	1	4778	1	6329	1	7880	1
126	1	1677	1	3228	1	4779	0	6330	0	7881	1
127	0	1678	1	3229	0	4780	0	6331	1	7882	1
128	0	1679	0	3230	1	4781	1	6332	0	7883	1
129	1	1680	1	3231	1	4782	0	6333	1	7884	0
130	0	1681	0	3232	0	4783	1	6334	0	7885	0
131	0	1682	0	3233	0	4784	0	6335	1	7886	1
132	0	1683	1	3234	1	4785	0	6336	0	7887	0
133	0	1684	1	3235	0	4786	1	6337	1	7888	1
134	1	1685	1	3236	0	4787	0	6338	0	7889	0
135	0	1686	1	3237	0	4788	1	6339	1	7890	0
136	0	1687	1	3238	0	4789	0	6340	1	7891	0
137	0	1688	1	3239	0	4790	1	6341	1	7892	1
138	1	1689	0	3240	1	4791	0	6342	0	7893	0
139	1	1690	0	3241	1	4792	1	6343	0	7894	1
140	0	1691	0	3242	1	4793	0	6344	1	7895	1
141	0	1692	1	3243	1	4794	1	6345	1	7896	1
142	1	1693	1	3244	1	4795	1	6346	0	7897	0
143	1	1694	0	3245	0	4796	0	6347	1	7898	1
144	0	1695	0	3246	1	4797	1	6348	1	7899	1
145	0	1696	1	3247	1	4798	0	6349	1	7900	0
146	1	1697	1	3248	0	4799	0	6350	1	7901	1
147	0	1698	0	3249	1	4800	0	6351	0	7902	1
148	1	1699	1	3250	0	4801	1	6352	1	7903	1
149	0	1700	1	3251	1	4802	1	6353	1	7904	0
150	1	1701	1	3252	0	4803	0	6354	1	7905	1
151	0	1702	0	3253	1	4804	1	6355	0	7906	1

152	1	1703	0	3254	1	4805	0	6356	1	7907	1
153	1	1704	0	3255	1	4806	0	6357	0	7908	1
154	1	1705	0	3256	0	4807	1	6358	0	7909	1
155	1	1706	1	3257	1	4808	1	6359	1	7910	0
156	0	1707	0	3258	0	4809	0	6360	1	7911	1
157	1	1708	0	3259	0	4810	1	6361	1	7912	0
158	1	1709	1	3260	0	4811	0	6362	0	7913	0
159	0	1710	0	3261	0	4812	0	6363	0	7914	0
160	1	1711	0	3262	0	4813	0	6364	1	7915	1
161	0	1712	1	3263	1	4814	1	6365	0	7916	1
162	1	1713	0	3264	1	4815	0	6366	1	7917	0
163	1	1714	1	3265	0	4816	1	6367	1	7918	0
164	1	1715	0	3266	0	4817	0	6368	0	7919	1
165	1	1716	0	3267	0	4818	0	6369	0	7920	0
166	1	1717	0	3268	0	4819	1	6370	1	7921	1
167	1	1718	0	3269	1	4820	1	6371	1	7922	1
168	1	1719	1	3270	0	4821	0	6372	1	7923	1
169	0	1720	1	3271	1	4822	1	6373	0	7924	0
170	0	1721	1	3272	0	4823	1	6374	1	7925	0
171	0	1722	1	3273	1	4824	0	6375	1	7926	0
172	0	1723	1	3274	0	4825	1	6376	0	7927	0
173	1	1724	0	3275	1	4826	1	6377	1	7928	1
174	1	1725	0	3276	0	4827	1	6378	0	7929	0
175	1	1726	1	3277	1	4828	1	6379	1	7930	1
176	0	1727	1	3278	0	4829	1	6380	0	7931	1
177	0	1728	1	3279	1	4830	0	6381	0	7932	0
178	1	1729	1	3280	1	4831	1	6382	0	7933	0
179	1	1730	1	3281	1	4832	1	6383	0	7934	0
180	1	1731	1	3282	0	4833	0	6384	1	7935	0
181	1	1732	0	3283	1	4834	0	6385	0	7936	0
182	0	1733	0	3284	1	4835	0	6386	1	7937	1
183	1	1734	0	3285	0	4836	1	6387	1	7938	0
184	1	1735	1	3286	0	4837	1	6388	0	7939	1
185	1	1736	0	3287	1	4838	0	6389	0	7940	1
186	1	1737	1	3288	0	4839	0	6390	1	7941	0
187	0	1738	0	3289	0	4840	0	6391	0	7942	0
188	1	1739	0	3290	1	4841	0	6392	0	7943	0
189	1	1740	1	3291	0	4842	1	6393	1	7944	0
190	0	1741	0	3292	1	4843	0	6394	1	7945	1
191	1	1742	0	3293	0	4844	0	6395	1	7946	1
192	1	1743	0	3294	0	4845	1	6396	0	7947	0
193	0	1744	1	3295	0	4846	1	6397	1	7948	1
194	0	1745	0	3296	0	4847	0	6398	0	7949	1
195	0	1746	0	3297	0	4848	0	6399	1	7950	1

196	0	1747	0	3298	0	4849	1	6400	1	7951	1
197	1	1748	1	3299	0	4850	1	6401	1	7952	1
198	1	1749	1	3300	0	4851	1	6402	0	7953	1
199	0	1750	1	3301	1	4852	1	6403	0	7954	0
200	1	1751	0	3302	0	4853	1	6404	0	7955	0
201	0	1752	1	3303	0	4854	1	6405	0	7956	1
202	1	1753	1	3304	0	4855	0	6406	1	7957	0
203	0	1754	0	3305	0	4856	0	6407	1	7958	1
204	0	1755	1	3306	1	4857	0	6408	0	7959	1
205	0	1756	1	3307	0	4858	0	6409	1	7960	0
206	1	1757	0	3308	1	4859	1	6410	0	7961	1
207	0	1758	1	3309	0	4860	1	6411	1	7962	0
208	1	1759	1	3310	0	4861	0	6412	0	7963	0
209	0	1760	0	3311	1	4862	0	6413	0	7964	0
210	0	1761	1	3312	0	4863	0	6414	1	7965	1
211	0	1762	0	3313	0	4864	1	6415	0	7966	0
212	1	1763	1	3314	1	4865	1	6416	1	7967	1
213	0	1764	0	3315	1	4866	1	6417	1	7968	1
214	1	1765	0	3316	0	4867	0	6418	0	7969	1
215	0	1766	0	3317	1	4868	0	6419	0	7970	0
216	1	1767	1	3318	1	4869	1	6420	0	7971	0
217	1	1768	1	3319	0	4870	0	6421	0	7972	1
218	1	1769	0	3320	0	4871	1	6422	1	7973	1
219	1	1770	0	3321	1	4872	0	6423	0	7974	0
220	1	1771	1	3322	1	4873	0	6424	0	7975	0
221	0	1772	0	3323	0	4874	1	6425	1	7976	1
222	0	1773	0	3324	1	4875	0	6426	0	7977	1
223	1	1774	0	3325	1	4876	1	6427	0	7978	1
224	1	1775	0	3326	1	4877	1	6428	1	7979	0
225	1	1776	1	3327	0	4878	0	6429	1	7980	1
226	1	1777	0	3328	0	4879	0	6430	0	7981	1
227	1	1778	0	3329	0	4880	1	6431	1	7982	1
228	0	1779	0	3330	1	4881	0	6432	1	7983	1
229	1	1780	1	3331	1	4882	0	6433	0	7984	0
230	0	1781	0	3332	0	4883	1	6434	0	7985	1
231	1	1782	1	3333	1	4884	1	6435	1	7986	0
232	1	1783	0	3334	0	4885	0	6436	1	7987	0
233	0	1784	0	3335	1	4886	0	6437	0	7988	1
234	0	1785	1	3336	1	4887	1	6438	0	7989	0
235	0	1786	0	3337	1	4888	0	6439	1	7990	1
236	1	1787	1	3338	0	4889	0	6440	1	7991	1
237	0	1788	1	3339	0	4890	0	6441	0	7992	1
238	1	1789	0	3340	1	4891	0	6442	1	7993	0
239	0	1790	1	3341	0	4892	1	6443	1	7994	0

240	1	1791	1	3342	1	4893	1	6444	1	7995	0
241	0	1792	0	3343	0	4894	1	6445	0	7996	0
242	1	1793	0	3344	0	4895	1	6446	0	7997	1
243	0	1794	0	3345	1	4896	0	6447	1	7998	1
244	1	1795	1	3346	1	4897	1	6448	0	7999	0
245	0	1796	0	3347	0	4898	1	6449	1	8000	1
246	0	1797	0	3348	0	4899	1	6450	1	8001	1
247	1	1798	1	3349	1	4900	0	6451	1	8002	0
248	1	1799	0	3350	0	4901	0	6452	1	8003	1
249	0	1800	1	3351	1	4902	0	6453	1	8004	0
250	1	1801	1	3352	0	4903	1	6454	1	8005	0
251	1	1802	0	3353	0	4904	0	6455	0	8006	1
252	1	1803	0	3354	0	4905	0	6456	1	8007	0
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256	1	1807	1	3358	0	4909	0	6460	0	8011	1
257	1	1808	1	3359	0	4910	1	6461	1	8012	1
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262	1	1813	1	3364	0	4915	0	6466	0	8017	1
263	0	1814	0	3365	0	4916	1	6467	0	8018	0
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265	0	1816	1	3367	0	4918	1	6469	0	8020	1
266	0	1817	0	3368	1	4919	1	6470	1	8021	1
267	1	1818	1	3369	0	4920	0	6471	0	8022	1
268	1	1819	1	3370	0	4921	0	6472	0	8023	1
269	0	1820	0	3371	1	4922	0	6473	1	8024	1
270	1	1821	0	3372	1	4923	1	6474	1	8025	1
271	0	1822	1	3373	1	4924	0	6475	0	8026	0
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273	0	1824	1	3375	1	4926	1	6477	1	8028	0
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276	1	1827	0	3378	0	4929	0	6480	0	8031	0
277	1	1828	1	3379	0	4930	0	6481	1	8032	1
278	0	1829	1	3380	1	4931	1	6482	0	8033	0
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281	0	1832	0	3383	1	4934	0	6485	1	8036	1
282	1	1833	0	3384	1	4935	0	6486	1	8037	1
283	1	1834	0	3385	0	4936	1	6487	0	8038	1

284	1	1835	1	3386	0	4937	0	6488	1	8039	1
285	1	1836	1	3387	0	4938	0	6489	1	8040	1
286	0	1837	1	3388	0	4939	1	6490	0	8041	1
287	0	1838	1	3389	1	4940	1	6491	0	8042	1
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289	0	1840	0	3391	0	4942	1	6493	1	8044	1
290	1	1841	0	3392	0	4943	1	6494	0	8045	0
291	1	1842	0	3393	1	4944	0	6495	0	8046	0
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293	0	1844	1	3395	0	4946	1	6497	1	8048	1
294	0	1845	1	3396	1	4947	1	6498	0	8049	0
295	1	1846	1	3397	0	4948	0	6499	1	8050	0
296	0	1847	0	3398	0	4949	1	6500	1	8051	0
297	0	1848	0	3399	1	4950	1	6501	0	8052	0
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299	1	1850	1	3401	0	4952	0	6503	0	8054	1
300	0	1851	0	3402	1	4953	0	6504	0	8055	0
301	0	1852	0	3403	1	4954	0	6505	1	8056	1
302	0	1853	0	3404	1	4955	0	6506	1	8057	0
303	1	1854	0	3405	0	4956	0	6507	0	8058	1
304	0	1855	1	3406	0	4957	1	6508	1	8059	0
305	1	1856	1	3407	0	4958	0	6509	1	8060	1
306	1	1857	1	3408	0	4959	0	6510	0	8061	0
307	1	1858	0	3409	0	4960	1	6511	0	8062	0
308	1	1859	0	3410	0	4961	0	6512	0	8063	1
309	1	1860	1	3411	1	4962	0	6513	0	8064	1
310	0	1861	1	3412	0	4963	1	6514	1	8065	0
311	0	1862	1	3413	0	4964	1	6515	1	8066	1
312	0	1863	1	3414	1	4965	0	6516	0	8067	0
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314	0	1865	0	3416	1	4967	0	6518	0	8069	1
315	1	1866	0	3417	0	4968	0	6519	1	8070	1
316	1	1867	0	3418	0	4969	1	6520	0	8071	0
317	0	1868	1	3419	1	4970	0	6521	1	8072	0
318	0	1869	1	3420	0	4971	1	6522	1	8073	0
319	1	1870	1	3421	1	4972	1	6523	1	8074	1
320	1	1871	0	3422	0	4973	1	6524	0	8075	0
321	0	1872	0	3423	0	4974	0	6525	1	8076	0
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323	1	1874	1	3425	0	4976	1	6527	0	8078	0
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325	1	1876	1	3427	0	4978	0	6529	0	8080	0
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327	1	1878	0	3429	1	4980	1	6531	0	8082	0

328	1	1879	1	3430	1	4981	0	6532	1	8083	1
329	1	1880	0	3431	0	4982	0	6533	1	8084	1
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331	1	1882	0	3433	1	4984	1	6535	0	8086	0
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335	1	1886	0	3437	0	4988	1	6539	1	8090	1
336	0	1887	1	3438	0	4989	0	6540	1	8091	0
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338	0	1889	0	3440	1	4991	0	6542	1	8093	0
339	0	1890	0	3441	0	4992	1	6543	1	8094	0
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341	0	1892	0	3443	0	4994	1	6545	1	8096	1
342	1	1893	0	3444	0	4995	0	6546	0	8097	0
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345	1	1896	1	3447	0	4998	1	6549	0	8100	1
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347	1	1898	0	3449	0	5000	1	6551	0	8102	0
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349	1	1900	0	3451	0	5002	0	6553	0	8104	0
350	1	1901	0	3452	0	5003	1	6554	0	8105	0
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353	0	1904	0	3455	0	5006	1	6557	0	8108	0
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355	1	1906	1	3457	0	5008	1	6559	1	8110	0
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357	0	1908	0	3459	0	5010	1	6561	1	8112	1
358	1	1909	0	3460	0	5011	0	6562	1	8113	1
359	0	1910	1	3461	1	5012	1	6563	1	8114	0
360	1	1911	0	3462	0	5013	0	6564	0	8115	1
361	1	1912	1	3463	0	5014	0	6565	0	8116	1
362	0	1913	0	3464	0	5015	0	6566	0	8117	1
363	0	1914	1	3465	1	5016	1	6567	0	8118	0
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365	0	1916	1	3467	1	5018	1	6569	0	8120	0
366	1	1917	1	3468	0	5019	1	6570	0	8121	0
367	1	1918	1	3469	1	5020	0	6571	0	8122	0
368	1	1919	0	3470	0	5021	0	6572	0	8123	0
369	0	1920	1	3471	1	5022	1	6573	1	8124	0
370	1	1921	1	3472	0	5023	1	6574	0	8125	1
371	0	1922	0	3473	1	5024	1	6575	0	8126	0

372	0	1923	0	3474	0	5025	0	6576	0	8127	0
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374	1	1925	1	3476	0	5027	0	6578	1	8129	0
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376	1	1927	0	3478	0	5029	0	6580	1	8131	0
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378	0	1929	0	3480	1	5031	1	6582	0	8133	0
379	0	1930	0	3481	1	5032	1	6583	0	8134	0
380	1	1931	0	3482	0	5033	0	6584	1	8135	1
381	1	1932	1	3483	0	5034	1	6585	1	8136	0
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383	0	1934	0	3485	0	5036	0	6587	0	8138	0
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386	0	1937	1	3488	1	5039	1	6590	1	8141	1
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389	0	1940	0	3491	0	5042	0	6593	1	8144	0
390	1	1941	1	3492	0	5043	1	6594	1	8145	1
391	1	1942	0	3493	0	5044	1	6595	1	8146	0
392	1	1943	1	3494	0	5045	0	6596	1	8147	0
393	1	1944	0	3495	1	5046	1	6597	0	8148	0
394	0	1945	0	3496	1	5047	0	6598	1	8149	0
395	0	1946	1	3497	1	5048	1	6599	1	8150	0
396	1	1947	1	3498	1	5049	0	6600	0	8151	1
397	1	1948	0	3499	0	5050	0	6601	1	8152	1
398	0	1949	0	3500	1	5051	0	6602	1	8153	0
399	0	1950	0	3501	0	5052	0	6603	1	8154	1
400	0	1951	0	3502	1	5053	0	6604	0	8155	0
401	1	1952	0	3503	0	5054	0	6605	0	8156	1
402	1	1953	0	3504	0	5055	0	6606	1	8157	1
403	0	1954	0	3505	0	5056	1	6607	0	8158	1
404	0	1955	0	3506	0	5057	0	6608	1	8159	1
405	1	1956	1	3507	1	5058	0	6609	0	8160	1
406	1	1957	1	3508	0	5059	0	6610	1	8161	0
407	1	1958	0	3509	0	5060	1	6611	0	8162	1
408	1	1959	1	3510	0	5061	0	6612	0	8163	0
409	0	1960	1	3511	1	5062	1	6613	0	8164	0
410	0	1961	0	3512	1	5063	0	6614	0	8165	1
411	1	1962	1	3513	0	5064	0	6615	0	8166	1
412	1	1963	0	3514	0	5065	1	6616	1	8167	0
413	0	1964	1	3515	0	5066	0	6617	0	8168	1
414	0	1965	0	3516	1	5067	0	6618	0	8169	1
415	0	1966	0	3517	0	5068	0	6619	1	8170	0

416	1	1967	1	3518	1	5069	0	6620	1	8171	0
417	0	1968	1	3519	0	5070	1	6621	1	8172	1
418	1	1969	1	3520	1	5071	1	6622	0	8173	0
419	1	1970	1	3521	0	5072	1	6623	0	8174	0
420	0	1971	0	3522	1	5073	1	6624	1	8175	1
421	1	1972	1	3523	1	5074	0	6625	1	8176	1
422	1	1973	0	3524	1	5075	1	6626	1	8177	0
423	0	1974	0	3525	1	5076	1	6627	1	8178	1
424	0	1975	0	3526	1	5077	1	6628	0	8179	1
425	0	1976	0	3527	1	5078	1	6629	1	8180	0
426	1	1977	1	3528	1	5079	1	6630	0	8181	0
427	0	1978	0	3529	1	5080	1	6631	0	8182	1
428	1	1979	1	3530	0	5081	0	6632	1	8183	0
429	0	1980	0	3531	1	5082	1	6633	0	8184	1
430	1	1981	0	3532	1	5083	1	6634	1	8185	0
431	1	1982	0	3533	1	5084	1	6635	0	8186	0
432	1	1983	1	3534	1	5085	1	6636	0	8187	0
433	1	1984	0	3535	0	5086	1	6637	0	8188	1
434	1	1985	1	3536	1	5087	0	6638	0	8189	0
435	0	1986	0	3537	0	5088	1	6639	1	8190	0
436	0	1987	0	3538	1	5089	0	6640	1	8191	0
437	1	1988	0	3539	0	5090	1	6641	1	8192	0
438	1	1989	0	3540	0	5091	0	6642	1	8193	1
439	1	1990	0	3541	1	5092	1	6643	0	8194	1
440	1	1991	0	3542	1	5093	0	6644	0	8195	1
441	1	1992	0	3543	1	5094	0	6645	0	8196	0
442	1	1993	0	3544	1	5095	0	6646	1	8197	0
443	1	1994	0	3545	0	5096	0	6647	1	8198	1
444	1	1995	0	3546	0	5097	0	6648	0	8199	0
445	1	1996	0	3547	0	5098	0	6649	0	8200	1
446	0	1997	0	3548	0	5099	1	6650	1	8201	1
447	1	1998	0	3549	0	5100	1	6651	0	8202	0
448	1	1999	0	3550	0	5101	0	6652	0	8203	0
449	0	2000	1	3551	1	5102	0	6653	1	8204	0
450	0	2001	1	3552	1	5103	0	6654	0	8205	0
451	1	2002	0	3553	1	5104	1	6655	0	8206	0
452	0	2003	1	3554	1	5105	0	6656	0	8207	1
453	0	2004	1	3555	0	5106	0	6657	1	8208	0
454	1	2005	0	3556	0	5107	1	6658	1	8209	0
455	1	2006	1	3557	0	5108	1	6659	0	8210	1
456	0	2007	0	3558	1	5109	0	6660	0	8211	1
457	1	2008	1	3559	0	5110	0	6661	0	8212	1
458	1	2009	1	3560	1	5111	1	6662	1	8213	0
459	0	2010	0	3561	0	5112	0	6663	1	8214	0

460	1	2011	0	3562	0	5113	0	6664	0	8215	0
461	0	2012	0	3563	0	5114	1	6665	0	8216	0
462	0	2013	0	3564	0	5115	0	6666	1	8217	1
463	0	2014	0	3565	1	5116	1	6667	0	8218	1
464	0	2015	1	3566	1	5117	1	6668	0	8219	0
465	1	2016	1	3567	0	5118	1	6669	0	8220	0
466	1	2017	0	3568	1	5119	1	6670	0	8221	0
467	0	2018	1	3569	1	5120	0	6671	1	8222	0
468	1	2019	0	3570	0	5121	0	6672	0	8223	1
469	1	2020	0	3571	0	5122	0	6673	0	8224	1
470	0	2021	1	3572	1	5123	0	6674	1	8225	1
471	0	2022	0	3573	0	5124	1	6675	1	8226	0
472	1	2023	0	3574	0	5125	0	6676	1	8227	0
473	1	2024	0	3575	1	5126	0	6677	1	8228	0
474	0	2025	1	3576	0	5127	1	6678	1	8229	1
475	0	2026	1	3577	1	5128	0	6679	1	8230	0
476	1	2027	0	3578	0	5129	1	6680	0	8231	1
477	1	2028	1	3579	1	5130	1	6681	0	8232	0
478	0	2029	1	3580	0	5131	1	6682	0	8233	0
479	1	2030	0	3581	1	5132	0	6683	0	8234	0
480	1	2031	0	3582	1	5133	1	6684	0	8235	0
481	0	2032	0	3583	0	5134	0	6685	1	8236	1
482	1	2033	0	3584	1	5135	0	6686	1	8237	1
483	0	2034	0	3585	1	5136	1	6687	1	8238	1
484	0	2035	0	3586	0	5137	1	6688	0	8239	0
485	1	2036	0	3587	1	5138	1	6689	1	8240	1
486	0	2037	0	3588	0	5139	0	6690	0	8241	1
487	1	2038	0	3589	1	5140	0	6691	1	8242	1
488	0	2039	1	3590	1	5141	0	6692	1	8243	0
489	0	2040	1	3591	1	5142	0	6693	1	8244	0
490	1	2041	0	3592	1	5143	0	6694	1	8245	1
491	1	2042	1	3593	1	5144	1	6695	0	8246	1
492	1	2043	0	3594	1	5145	1	6696	0	8247	0
493	1	2044	0	3595	1	5146	1	6697	0	8248	0
494	1	2045	0	3596	0	5147	0	6698	1	8249	1
495	1	2046	1	3597	1	5148	0	6699	1	8250	0
496	1	2047	0	3598	1	5149	0	6700	0	8251	0
497	0	2048	0	3599	1	5150	1	6701	1	8252	0
498	0	2049	1	3600	1	5151	1	6702	0	8253	1
499	1	2050	0	3601	1	5152	0	6703	1	8254	0
500	0	2051	1	3602	1	5153	0	6704	0	8255	0
501	0	2052	0	3603	0	5154	1	6705	0	8256	1
502	0	2053	0	3604	0	5155	1	6706	0	8257	0
503	1	2054	0	3605	0	5156	0	6707	1	8258	0

504	0	2055	0	3606	0	5157	0	6708	0	8259	0
505	1	2056	0	3607	1	5158	1	6709	0	8260	0
506	0	2057	0	3608	0	5159	1	6710	0	8261	0
507	0	2058	0	3609	1	5160	0	6711	0	8262	1
508	0	2059	0	3610	1	5161	1	6712	0	8263	1
509	1	2060	0	3611	1	5162	0	6713	1	8264	1
510	0	2061	1	3612	0	5163	0	6714	1	8265	1
511	1	2062	1	3613	1	5164	1	6715	1	8266	1
512	0	2063	1	3614	0	5165	1	6716	0	8267	1
513	0	2064	1	3615	0	5166	0	6717	0	8268	1
514	1	2065	1	3616	1	5167	1	6718	1	8269	0
515	1	2066	0	3617	0	5168	0	6719	1	8270	1
516	0	2067	0	3618	1	5169	0	6720	0	8271	1
517	0	2068	0	3619	1	5170	0	6721	0	8272	1
518	0	2069	1	3620	0	5171	0	6722	1	8273	0
519	1	2070	1	3621	1	5172	0	6723	1	8274	1
520	0	2071	0	3622	0	5173	0	6724	0	8275	0
521	1	2072	1	3623	0	5174	0	6725	0	8276	0
522	0	2073	1	3624	1	5175	0	6726	1	8277	0
523	0	2074	0	3625	1	5176	0	6727	0	8278	1
524	1	2075	1	3626	0	5177	0	6728	1	8279	1
525	0	2076	1	3627	0	5178	1	6729	1	8280	1
526	1	2077	0	3628	1	5179	0	6730	1	8281	1
527	0	2078	1	3629	1	5180	0	6731	1	8282	1
528	0	2079	0	3630	1	5181	0	6732	0	8283	0
529	0	2080	1	3631	0	5182	1	6733	0	8284	0
530	1	2081	1	3632	1	5183	1	6734	0	8285	0
531	0	2082	0	3633	1	5184	1	6735	0	8286	0
532	1	2083	1	3634	0	5185	1	6736	1	8287	1
533	0	2084	0	3635	1	5186	1	6737	0	8288	1
534	0	2085	1	3636	0	5187	0	6738	0	8289	0
535	0	2086	1	3637	1	5188	1	6739	0	8290	0
536	0	2087	0	3638	1	5189	1	6740	0	8291	1
537	0	2088	1	3639	1	5190	1	6741	0	8292	1
538	1	2089	0	3640	1	5191	0	6742	1	8293	0
539	1	2090	0	3641	0	5192	0	6743	0	8294	0
540	1	2091	0	3642	1	5193	1	6744	1	8295	1
541	1	2092	0	3643	0	5194	0	6745	1	8296	0
542	1	2093	1	3644	0	5195	1	6746	0	8297	0
543	1	2094	0	3645	0	5196	0	6747	1	8298	0
544	1	2095	1	3646	0	5197	0	6748	0	8299	1
545	0	2096	0	3647	0	5198	1	6749	0	8300	0
546	0	2097	1	3648	1	5199	0	6750	1	8301	1
547	0	2098	0	3649	1	5200	0	6751	0	8302	1

548	0	2099	0	3650	1	5201	0	6752	0	8303	1
549	0	2100	0	3651	0	5202	1	6753	1	8304	1
550	0	2101	1	3652	1	5203	0	6754	0	8305	1
551	0	2102	0	3653	0	5204	1	6755	1	8306	1
552	0	2103	0	3654	1	5205	0	6756	1	8307	1
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554	1	2105	1	3656	1	5207	0	6758	0	8309	0
555	1	2106	1	3657	0	5208	1	6759	0	8310	0
556	1	2107	1	3658	1	5209	0	6760	0	8311	0
557	0	2108	0	3659	1	5210	1	6761	1	8312	1
558	1	2109	1	3660	1	5211	1	6762	1	8313	0
559	0	2110	1	3661	0	5212	1	6763	0	8314	0
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561	1	2112	0	3663	1	5214	0	6765	1	8316	0
562	0	2113	1	3664	0	5215	1	6766	0	8317	0
563	0	2114	1	3665	1	5216	0	6767	1	8318	0
564	0	2115	0	3666	1	5217	0	6768	0	8319	1
565	0	2116	1	3667	1	5218	1	6769	1	8320	1
566	0	2117	1	3668	1	5219	0	6770	0	8321	0
567	0	2118	1	3669	0	5220	1	6771	0	8322	0
568	1	2119	0	3670	0	5221	1	6772	1	8323	1
569	0	2120	1	3671	0	5222	1	6773	1	8324	0
570	1	2121	0	3672	0	5223	1	6774	1	8325	1
571	1	2122	0	3673	0	5224	1	6775	0	8326	1
572	1	2123	0	3674	0	5225	1	6776	0	8327	0
573	0	2124	1	3675	1	5226	1	6777	1	8328	1
574	0	2125	1	3676	0	5227	0	6778	0	8329	0
575	0	2126	1	3677	1	5228	1	6779	1	8330	0
576	0	2127	1	3678	1	5229	1	6780	0	8331	1
577	1	2128	0	3679	1	5230	0	6781	0	8332	0
578	1	2129	0	3680	1	5231	0	6782	0	8333	1
579	0	2130	1	3681	0	5232	1	6783	0	8334	0
580	0	2131	0	3682	0	5233	1	6784	0	8335	0
581	0	2132	0	3683	0	5234	0	6785	1	8336	1
582	0	2133	0	3684	1	5235	1	6786	1	8337	0
583	0	2134	1	3685	0	5236	0	6787	0	8338	1
584	1	2135	0	3686	0	5237	0	6788	0	8339	0
585	1	2136	0	3687	0	5238	0	6789	1	8340	0
586	0	2137	1	3688	0	5239	1	6790	1	8341	1
587	0	2138	1	3689	0	5240	0	6791	1	8342	1
588	1	2139	0	3690	0	5241	0	6792	0	8343	1
589	1	2140	0	3691	0	5242	1	6793	0	8344	0
590	0	2141	0	3692	0	5243	0	6794	0	8345	0
591	1	2142	1	3693	1	5244	1	6795	1	8346	0

592	1	2143	0	3694	1	5245	0	6796	0	8347	0
593	1	2144	0	3695	1	5246	1	6797	0	8348	0
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595	0	2146	1	3697	1	5248	0	6799	0	8350	0
596	1	2147	0	3698	0	5249	1	6800	0	8351	0
597	0	2148	1	3699	0	5250	1	6801	1	8352	1
598	1	2149	0	3700	1	5251	0	6802	0	8353	1
599	1	2150	0	3701	0	5252	0	6803	0	8354	0
600	1	2151	1	3702	1	5253	1	6804	1	8355	0
601	0	2152	0	3703	1	5254	1	6805	0	8356	1
602	1	2153	1	3704	1	5255	1	6806	1	8357	1
603	1	2154	0	3705	1	5256	1	6807	1	8358	1
604	1	2155	1	3706	0	5257	0	6808	1	8359	0
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607	1	2158	1	3709	0	5260	1	6811	0	8362	0
608	0	2159	1	3710	0	5261	1	6812	0	8363	0
609	0	2160	0	3711	0	5262	1	6813	0	8364	1
610	0	2161	1	3712	0	5263	0	6814	1	8365	1
611	0	2162	1	3713	0	5264	1	6815	0	8366	1
612	1	2163	0	3714	0	5265	1	6816	1	8367	0
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614	0	2165	1	3716	1	5267	1	6818	1	8369	0
615	1	2166	0	3717	1	5268	0	6819	1	8370	1
616	1	2167	0	3718	1	5269	0	6820	0	8371	0
617	1	2168	1	3719	1	5270	1	6821	1	8372	0
618	1	2169	0	3720	1	5271	0	6822	0	8373	1
619	1	2170	1	3721	0	5272	1	6823	1	8374	1
620	0	2171	1	3722	0	5273	1	6824	1	8375	1
621	0	2172	0	3723	1	5274	1	6825	1	8376	0
622	0	2173	1	3724	1	5275	0	6826	1	8377	0
623	0	2174	0	3725	0	5276	1	6827	1	8378	1
624	1	2175	0	3726	0	5277	1	6828	1	8379	0
625	0	2176	1	3727	0	5278	1	6829	0	8380	1
626	1	2177	0	3728	0	5279	1	6830	0	8381	0
627	0	2178	1	3729	1	5280	0	6831	0	8382	0
628	0	2179	0	3730	1	5281	0	6832	1	8383	1
629	1	2180	1	3731	0	5282	0	6833	0	8384	0
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631	1	2182	0	3733	1	5284	0	6835	1	8386	1
632	1	2183	0	3734	0	5285	0	6836	0	8387	1
633	0	2184	0	3735	1	5286	0	6837	1	8388	1
634	1	2185	1	3736	0	5287	0	6838	1	8389	0
635	1	2186	0	3737	1	5288	1	6839	0	8390	1

636	1	2187	0	3738	1	5289	1	6840	0	8391	0
637	1	2188	1	3739	1	5290	1	6841	1	8392	1
638	0	2189	1	3740	0	5291	1	6842	0	8393	0
639	1	2190	0	3741	1	5292	0	6843	1	8394	1
640	1	2191	1	3742	0	5293	0	6844	1	8395	1
641	1	2192	1	3743	0	5294	1	6845	1	8396	1
642	1	2193	0	3744	0	5295	0	6846	1	8397	1
643	0	2194	0	3745	0	5296	0	6847	0	8398	1
644	1	2195	1	3746	1	5297	1	6848	1	8399	0
645	0	2196	0	3747	1	5298	0	6849	1	8400	1
646	0	2197	0	3748	0	5299	1	6850	0	8401	0
647	1	2198	1	3749	1	5300	0	6851	1	8402	0
648	0	2199	0	3750	1	5301	0	6852	0	8403	1
649	1	2200	1	3751	1	5302	1	6853	0	8404	1
650	1	2201	0	3752	0	5303	1	6854	1	8405	0
651	1	2202	1	3753	0	5304	1	6855	0	8406	1
652	1	2203	1	3754	1	5305	0	6856	1	8407	1
653	0	2204	1	3755	0	5306	1	6857	1	8408	1
654	1	2205	1	3756	0	5307	1	6858	0	8409	1
655	1	2206	1	3757	1	5308	1	6859	0	8410	0
656	0	2207	1	3758	1	5309	1	6860	0	8411	1
657	1	2208	1	3759	1	5310	0	6861	1	8412	1
658	0	2209	0	3760	1	5311	0	6862	0	8413	0
659	1	2210	1	3761	0	5312	0	6863	1	8414	1
660	0	2211	1	3762	0	5313	1	6864	1	8415	1
661	1	2212	0	3763	1	5314	0	6865	1	8416	1
662	0	2213	1	3764	1	5315	1	6866	1	8417	1
663	1	2214	1	3765	0	5316	1	6867	0	8418	0
664	0	2215	1	3766	1	5317	1	6868	1	8419	1
665	0	2216	0	3767	0	5318	0	6869	0	8420	1
666	0	2217	0	3768	0	5319	0	6870	1	8421	1
667	0	2218	0	3769	1	5320	1	6871	0	8422	0
668	1	2219	1	3770	0	5321	1	6872	0	8423	1
669	1	2220	1	3771	1	5322	0	6873	1	8424	1
670	0	2221	1	3772	0	5323	1	6874	0	8425	0
671	1	2222	1	3773	1	5324	0	6875	1	8426	1
672	0	2223	1	3774	1	5325	1	6876	1	8427	0
673	0	2224	0	3775	0	5326	0	6877	1	8428	1
674	1	2225	1	3776	1	5327	1	6878	1	8429	0
675	0	2226	0	3777	1	5328	1	6879	0	8430	0
676	0	2227	1	3778	0	5329	1	6880	1	8431	1
677	1	2228	1	3779	0	5330	1	6881	1	8432	0
678	1	2229	0	3780	1	5331	1	6882	0	8433	0
679	1	2230	0	3781	0	5332	1	6883	1	8434	0

680	1	2231	0	3782	0	5333	1	6884	1	8435	1
681	1	2232	0	3783	1	5334	1	6885	0	8436	0
682	1	2233	0	3784	1	5335	0	6886	1	8437	1
683	0	2234	1	3785	1	5336	0	6887	0	8438	1
684	0	2235	1	3786	1	5337	1	6888	0	8439	0
685	1	2236	0	3787	0	5338	1	6889	0	8440	0
686	0	2237	0	3788	1	5339	1	6890	0	8441	0
687	1	2238	1	3789	0	5340	1	6891	0	8442	0
688	0	2239	0	3790	1	5341	0	6892	1	8443	1
689	0	2240	1	3791	1	5342	0	6893	1	8444	1
690	0	2241	1	3792	1	5343	0	6894	1	8445	1
691	1	2242	0	3793	0	5344	1	6895	1	8446	0
692	1	2243	1	3794	1	5345	0	6896	0	8447	0
693	1	2244	1	3795	1	5346	1	6897	0	8448	1
694	1	2245	0	3796	0	5347	0	6898	0	8449	1
695	0	2246	0	3797	1	5348	1	6899	1	8450	1
696	1	2247	0	3798	1	5349	1	6900	0	8451	0
697	0	2248	0	3799	1	5350	1	6901	0	8452	1
698	0	2249	0	3800	0	5351	0	6902	1	8453	0
699	1	2250	1	3801	1	5352	0	6903	1	8454	1
700	0	2251	0	3802	1	5353	0	6904	0	8455	0
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703	1	2254	1	3805	0	5356	0	6907	1	8458	1
704	0	2255	1	3806	0	5357	0	6908	0	8459	0
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707	1	2258	1	3809	0	5360	0	6911	1	8462	1
708	0	2259	0	3810	1	5361	1	6912	0	8463	0
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711	0	2262	0	3813	1	5364	1	6915	0	8466	0
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714	1	2265	1	3816	1	5367	0	6918	0	8469	1
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716	0	2267	1	3818	0	5369	0	6920	1	8471	1
717	1	2268	0	3819	1	5370	1	6921	1	8472	0
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721	0	2272	1	3823	1	5374	0	6925	0	8476	1
722	0	2273	1	3824	1	5375	1	6926	0	8477	1
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726	0	2277	0	3828	0	5379	0	6930	0	8481	0
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728	1	2279	1	3830	1	5381	0	6932	1	8483	1
729	1	2280	1	3831	0	5382	0	6933	0	8484	1
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733	0	2284	0	3835	0	5386	0	6937	1	8488	0
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735	1	2286	1	3837	0	5388	0	6939	1	8490	0
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737	1	2288	0	3839	0	5390	1	6941	1	8492	0
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740	0	2291	0	3842	0	5393	1	6944	1	8495	0
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746	0	2297	1	3848	0	5399	0	6950	0	8501	1
747	1	2298	0	3849	1	5400	1	6951	1	8502	1
748	0	2299	0	3850	0	5401	1	6952	0	8503	0
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753	0	2304	1	3855	1	5406	0	6957	0	8508	0
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755	1	2306	0	3857	0	5408	0	6959	1	8510	1
756	1	2307	1	3858	1	5409	0	6960	0	8511	1
757	1	2308	0	3859	1	5410	0	6961	0	8512	0
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759	1	2310	0	3861	1	5412	0	6963	0	8514	0
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764	0	2315	1	3866	0	5417	1	6968	0	8519	1
765	0	2316	0	3867	0	5418	0	6969	1	8520	0
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767	1	2318	0	3869	1	5420	1	6971	0	8522	1

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770	1	2321	0	3872	1	5423	1	6974	1	8525	0
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776	1	2327	0	3878	1	5429	1	6980	0	8531	1
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786	1	2337	0	3888	0	5439	1	6990	0	8541	0
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797	0	2348	0	3899	0	5450	0	7001	0	8552	0
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817	1	2368	1	3919	0	5470	0	7021	0	8572	1
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823	0	2374	0	3925	1	5476	0	7027	0	8578	1
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831	1	2382	0	3933	0	5484	0	7035	0	8586	1
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915	0	2466	1	4017	0	5568	0	7119	1	8670	0
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942	0	2493	1	4044	0	5595	0	7146	0	8697	1
943	1	2494	0	4045	0	5596	0	7147	1	8698	1

944	1	2495	0	4046	0	5597	0	7148	1	8699	1
945	1	2496	1	4047	0	5598	1	7149	0	8700	1
946	0	2497	1	4048	1	5599	1	7150	0	8701	0
947	1	2498	0	4049	0	5600	1	7151	1	8702	1
948	1	2499	1	4050	1	5601	0	7152	0	8703	1
949	0	2500	1	4051	1	5602	1	7153	1	8704	0
950	0	2501	0	4052	0	5603	1	7154	1	8705	1
951	0	2502	0	4053	1	5604	0	7155	0	8706	1
952	0	2503	1	4054	1	5605	1	7156	1	8707	1
953	1	2504	0	4055	0	5606	1	7157	1	8708	0
954	1	2505	1	4056	0	5607	0	7158	1	8709	1
955	0	2506	0	4057	1	5608	1	7159	0	8710	0
956	0	2507	0	4058	1	5609	0	7160	0	8711	1
957	0	2508	0	4059	0	5610	1	7161	0	8712	0
958	1	2509	1	4060	0	5611	1	7162	1	8713	0
959	0	2510	0	4061	0	5612	0	7163	1	8714	1
960	1	2511	1	4062	1	5613	1	7164	0	8715	0
961	1	2512	0	4063	0	5614	1	7165	0	8716	1
962	0	2513	0	4064	0	5615	0	7166	1	8717	1
963	0	2514	1	4065	0	5616	0	7167	1	8718	1
964	1	2515	1	4066	0	5617	1	7168	0	8719	0
965	1	2516	1	4067	1	5618	0	7169	1	8720	0
966	0	2517	0	4068	0	5619	0	7170	1	8721	0
967	0	2518	0	4069	0	5620	1	7171	1	8722	1
968	1	2519	1	4070	1	5621	1	7172	1	8723	1
969	0	2520	0	4071	1	5622	0	7173	0	8724	0
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971	1	2522	0	4073	0	5624	1	7175	0	8726	0
972	1	2523	0	4074	1	5625	1	7176	1	8727	0
973	0	2524	0	4075	0	5626	1	7177	0	8728	1
974	0	2525	0	4076	1	5627	1	7178	0	8729	0
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976	1	2527	0	4078	0	5629	1	7180	1	8731	0
977	0	2528	1	4079	0	5630	0	7181	1	8732	0
978	0	2529	0	4080	0	5631	1	7182	0	8733	0
979	0	2530	0	4081	1	5632	0	7183	0	8734	1
980	1	2531	1	4082	0	5633	0	7184	0	8735	1
981	1	2532	0	4083	1	5634	0	7185	1	8736	0
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983	1	2534	1	4085	0	5636	1	7187	1	8738	1
984	1	2535	0	4086	0	5637	1	7188	0	8739	0
985	0	2536	0	4087	0	5638	0	7189	1	8740	1
986	1	2537	1	4088	1	5639	1	7190	1	8741	1
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991	1	2542	0	4093	0	5644	1	7195	1	8746	1
992	0	2543	0	4094	1	5645	1	7196	0	8747	1
993	0	2544	1	4095	1	5646	1	7197	1	8748	0
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995	1	2546	0	4097	0	5648	1	7199	0	8750	1
996	1	2547	1	4098	1	5649	0	7200	1	8751	1
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998	1	2549	0	4100	0	5651	0	7202	1	8753	0
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1004	0	2555	0	4106	1	5657	0	7208	0	8759	0
1005	1	2556	1	4107	1	5658	1	7209	0	8760	1
1006	1	2557	0	4108	1	5659	0	7210	0	8761	0
1007	0	2558	1	4109	1	5660	0	7211	0	8762	0
1008	0	2559	0	4110	0	5661	0	7212	0	8763	0
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1014	0	2565	1	4116	1	5667	1	7218	0	8769	1
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1021	1	2572	1	4123	0	5674	1	7225	0	8776	0
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1057	1	2608	0	4159	1	5710	1	7261	0	8812	1
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1465	0	3016	1	4567	0	6118	1	7669	1	9220	1
1466	1	3017	0	4568	1	6119	1	7670	1	9221	0
1467	1	3018	0	4569	1	6120	0	7671	1	9222	0
1468	0	3019	1	4570	0	6121	1	7672	1	9223	0
1469	0	3020	0	4571	0	6122	0	7673	0	9224	1
1470	1	3021	0	4572	1	6123	1	7674	1	9225	1
1471	1	3022	0	4573	0	6124	0	7675	0	9226	1

1472	1	3023	0	4574	1	6125	1	7676	0	9227	0
1473	1	3024	0	4575	0	6126	0	7677	0	9228	1
1474	1	3025	1	4576	1	6127	1	7678	1	9229	1
1475	0	3026	0	4577	0	6128	1	7679	0	9230	1
1476	1	3027	1	4578	1	6129	0	7680	1	9231	1
1477	1	3028	0	4579	0	6130	1	7681	1	9232	0
1478	0	3029	1	4580	1	6131	1	7682	0	9233	1
1479	1	3030	0	4581	1	6132	1	7683	1	9234	1
1480	1	3031	0	4582	1	6133	0	7684	0	9235	0
1481	0	3032	1	4583	0	6134	0	7685	1	9236	0
1482	0	3033	1	4584	1	6135	1	7686	0	9237	0
1483	0	3034	1	4585	1	6136	0	7687	0	9238	1
1484	1	3035	0	4586	1	6137	0	7688	1	9239	0
1485	0	3036	1	4587	0	6138	1	7689	0	9240	0
1486	1	3037	0	4588	1	6139	1	7690	0	9241	0
1487	1	3038	0	4589	1	6140	0	7691	1	9242	0
1488	1	3039	1	4590	0	6141	1	7692	0	9243	1
1489	1	3040	0	4591	0	6142	1	7693	0	9244	0
1490	0	3041	1	4592	1	6143	1	7694	1	9245	1
1491	1	3042	1	4593	0	6144	1	7695	1	9246	0
1492	1	3043	1	4594	1	6145	1	7696	0	9247	1
1493	1	3044	0	4595	0	6146	1	7697	0	9248	1
1494	0	3045	0	4596	0	6147	1	7698	1	9249	1
1495	0	3046	1	4597	0	6148	1	7699	0	9250	0
1496	1	3047	0	4598	1	6149	0	7700	0	9251	1
1497	1	3048	1	4599	0	6150	1	7701	0	9252	1
1498	0	3049	0	4600	0	6151	1	7702	0	9253	0
1499	0	3050	0	4601	0	6152	0	7703	0	9254	1
1500	0	3051	0	4602	1	6153	1	7704	1	9255	1
1501	0	3052	0	4603	1	6154	0	7705	0	9256	0
1502	0	3053	1	4604	0	6155	0	7706	1	9257	1
1503	1	3054	0	4605	0	6156	0	7707	0	9258	0
1504	0	3055	0	4606	1	6157	0	7708	0	9259	1
1505	1	3056	0	4607	0	6158	1	7709	0	9260	1
1506	0	3057	0	4608	1	6159	0	7710	1	9261	1
1507	0	3058	0	4609	0	6160	0	7711	0	9262	0
1508	1	3059	1	4610	1	6161	1	7712	1	9263	0
1509	1	3060	1	4611	0	6162	0	7713	1	9264	0
1510	1	3061	1	4612	0	6163	0	7714	1	9265	0
1511	1	3062	0	4613	1	6164	0	7715	0	9266	1
1512	0	3063	0	4614	1	6165	0	7716	1	9267	1
1513	1	3064	1	4615	1	6166	0	7717	1	9268	0
1514	1	3065	0	4616	1	6167	1	7718	0	9269	0
1515	0	3066	0	4617	0	6168	0	7719	0	9270	0

1516	0	3067	1	4618	1	6169	0	7720	0	9271	1
1517	0	3068	0	4619	0	6170	0	7721	0	9272	0
1518	1	3069	1	4620	0	6171	1	7722	1	9273	1
1519	0	3070	0	4621	0	6172	0	7723	1	9274	0
1520	1	3071	1	4622	1	6173	1	7724	0	9275	1
1521	1	3072	1	4623	0	6174	0	7725	0	9276	1
1522	1	3073	1	4624	0	6175	0	7726	1	9277	1
1523	0	3074	1	4625	1	6176	1	7727	0	9278	0
1524	0	3075	0	4626	0	6177	1	7728	0	9279	0
1525	1	3076	1	4627	1	6178	0	7729	1	9280	0
1526	0	3077	1	4628	1	6179	1	7730	1	9281	1
1527	0	3078	0	4629	1	6180	1	7731	1	9282	0
1528	0	3079	0	4630	1	6181	1	7732	0	9283	1
1529	0	3080	1	4631	1	6182	0	7733	0	9284	0
1530	1	3081	1	4632	0	6183	0	7734	1	9285	0
1531	1	3082	1	4633	1	6184	1	7735	0	9286	0
1532	0	3083	1	4634	1	6185	0	7736	0	9287	0
1533	0	3084	1	4635	0	6186	0	7737	0	9288	0
1534	0	3085	1	4636	1	6187	1	7738	1	9289	0
1535	1	3086	1	4637	1	6188	0	7739	0	9290	0
1536	0	3087	1	4638	1	6189	0	7740	0	9291	1
1537	1	3088	0	4639	0	6190	0	7741	1	9292	0
1538	0	3089	0	4640	0	6191	0	7742	0	9293	1
1539	1	3090	0	4641	1	6192	1	7743	1	9294	0
1540	1	3091	1	4642	1	6193	1	7744	0	9295	1
1541	0	3092	0	4643	0	6194	1	7745	1	9296	0
1542	0	3093	0	4644	1	6195	0	7746	1	9297	0
1543	0	3094	1	4645	0	6196	1	7747	1	9298	1
1544	0	3095	0	4646	0	6197	1	7748	0	9299	0
1545	0	3096	0	4647	1	6198	1	7749	0		
1546	1	3097	0	4648	1	6199	0	7750	1		
1547	0	3098	0	4649	0	6200	1	7751	0		
1548	0	3099	1	4650	0	6201	1	7752	1		
1549	0	3100	1	4651	0	6202	0	7753	0		
1550	0	3101	1	4652	0	6203	1	7754	0		

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