

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{13} + z^{11} + z^{10} + z^8 + z^6 + z^5 + z^3 + z + 1, \\ p_1(z) &= z^{23} + z^{22} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^6 + z^3 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{20} + z^{18} + z^{14} + z^{12} + z^{10} + z^2, \\ p_3(z) &= z^{23} + z^{22} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^6 + z^3 + z^2 + z, \\ p_4(z) &= z^{22} + z^{14} + z^{13} + z^{12} + z^{11} + z^6 + z^5 + z^4 + z^3 + z^2 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{20} + z^{18} + z^{16} + z^{13} + z^{11} + z^{10} + z^8 + z^6 + z^5 + z^3 + z, \\ p_1(z) &= z^{23} + z^{22} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^6 + z^3 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{20} + z^{18} + z^{14} + z^{12} + z^{10} + z^2, \\ p_3(z) &= z^{23} + z^{22} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^6 + z^3 + z^2 + z, \\ p_4(z) &= z^{22} + z^{20} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^6 + z^5 + z^4 + z^3 + z^2 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

where $\bar{t}$ 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,

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

Therefore, by the convergence theorem of continued fraction, the algebraicity of $\text{CF}(a, b)$ will be established if it is shown that both $M_{2^n}(x)_{0,1}$ and $M_{2^n}(x)_{0,0}$ 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 $(M_{2^n}(x)_{i,j})_n$, $(M_{2^{n+1}}(x)_{i,j})_n$, $(W_{2^n}(x)_{i,j})_n$, and $(W_{2^{n+1}}(x)_{i,j})_n$ 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 $(M_{2^n}(x))_n$, $(M_{2^{n+1}}(x))_n$, $(W_{2^n}(x))_n$, and $(W_{2^{n+1}}(x))_n$.

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

$$M^o[:12u] = M^o[:6u] + x^{5u} M^o[:u] + x^{5u} M^o[:6u] + x^{10u} M^o[:u] + x^{6u} M^o[:6u]$$

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

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

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

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

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

which can be rewritten as

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

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

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

$$\begin{aligned}
(2.10) \quad 0 &= T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1001w]_2], \\
0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2]
\end{aligned}$$

$$(2.11) \quad + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

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

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

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

$$\begin{aligned}
(2.16) \quad 0 &= T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1001w]_2], \\
0 &= T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2]
\end{aligned}$$

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

$$(2.18) \quad 0 = T[[w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8160 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

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

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

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

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

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

$$(2.22) \quad \begin{aligned} 0 &= \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1001)), \end{aligned}$$

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

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

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

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

$$(2.26) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 111)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) \end{aligned}$$

$$(2.27) \quad \begin{aligned} &\quad + \tau(A(s, 1000)), \\ 0 &= \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \end{aligned}$$

$$(2.28) \quad \begin{aligned} &\quad + \tau(A(s, 1001)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \end{aligned}$$

$$(2.29) \quad \begin{aligned} &\quad + \tau(A(s, 101)) + \tau(A(s, 1010)), \\ 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) \end{aligned}$$

$$(2.30) \quad \quad + \tau(A(s, 1011)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{40}), E_{40}) = (A(i, 0^{24}), E_{24})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 20$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

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

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

We give the proof of

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

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

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

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

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

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

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

Using the notation introduced above, we can represent the expressions *lhs* (2.31) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{12}, b_1, \dots, b_{12}, c][X]$. Note that it is not a problem that a_j commutes with b_k while W^e does not commute with M^e , because in the expressions concerned, the products of W^e -terms and M^e -terms are always in the same order. We let the computer do the simplification and check that the difference between these two polynomials is indeed $O(X^{12})$, which completes the proof. $\square$

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

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

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

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

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

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

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

Define

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

where

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

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

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned} p_0(x) &= x^{114} + x^{112} + x^{108} + x^{106} + x^{102} + x^{98} + x^{96} + x^{90} + x^{86} + x^{78} + x^{74} \\ &\quad + x^{72} + x^{68} + x^{62} + x^{60} + x^{54} + x^{52} + x^{42} + x^{40} + x^{36} + x^{30} + x^{28} \\ &\quad + x^{22} + x^{14} + x^{12}, \\ p_3(x) &= x^{110} + x^{106} + x^{104} + x^{100} + x^{98} + x^{94} + x^{92} + x^{84} + x^{76} + x^{72} + x^{64} \\ &\quad + x^{60} + x^{58} + x^{54} + x^{50} + x^{48} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{24} \\ &\quad + x^{22} + x^{20} + x^{14} + x^8, \\ p_6(x) &= x^{108} + x^{106} + x^{104} + x^{100} + x^{98} + x^{94} + x^{90} + x^{82} + x^{78} + x^{76} + x^{74} \\ &\quad + x^{72} + x^{66} + x^{56} + x^{54} + x^{50} + x^{48} + x^{42} + x^{40} + x^{38} + x^{36} + x^{34} \\ &\quad + x^{30} + x^{26} + x^{22} + x^{18} + x^{16} + x^6 + x^4 + 1, \\ p_9(x) &= x^{112} + x^{110} + x^{104} + x^{102} + x^{96} + x^{92} + x^{86} + x^{76} + x^{66} + x^{62} + x^{60} \\ &\quad + x^{58} + x^{56} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} \\ &\quad + x^{24} + x^{22} + x^{18} + x^{14} + x^{12} + x^{10} + x^4 + x^2, \end{aligned}$$

$$p_{12}(x) = x^{112} + x^{106} + x^{98} + x^{90} + x^{82} + x^{74} + x^{66} + x^{64} + x^{32} + x^{26} + x^{18} \\ + x^{10} + x^2 + 1,$$

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

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

$$p_0(x) = x^{126} + x^{125} + x^{122} + x^{121} + x^{119} + x^{116} + x^{114} + x^{111} + x^{108} + x^{107} \\ + x^{106} + x^{105} + x^{104} + x^{103} + x^{101} + x^{99} + x^{98} + x^{97} + x^{91} + x^{86} \\ + x^{85} + x^{82} + x^{81} + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} \\ + x^{69} + x^{65} + x^{62} + x^{60} + x^{59} + x^{52} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} \\ + x^{44} + x^{43} + x^{41} + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} + x^{28} + x^{26} + x^{24},$$

$$p_3(x) = x^{124} + x^{120} + x^{119} + x^{114} + x^{112} + x^{110} + x^{109} + x^{107} + x^{104} + x^{103} \\ + x^{102} + x^{98} + x^{97} + x^{94} + x^{89} + x^{88} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} \\ + x^{78} + x^{77} + x^{75} + x^{72} + x^{71} + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} \\ + x^{62} + x^{58} + x^{57} + x^{54} + x^{49} + x^{48} + x^{45} + x^{43} + x^{41} + x^{39} + x^{38} \\ + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{29} + x^{27} + x^{25} + x^{23} + x^{22} + x^{21} \\ + x^{19} + x^{18} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^9,$$

$$p_6(x) = x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{115} + x^{112} + x^{111} + x^{109} + x^{107} \\ + x^{106} + x^{103} + x^{101} + x^{97} + x^{94} + x^{93} + x^{91} + x^{87} + x^{84} + x^{83} + x^{80} \\ + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} \\ + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\ + x^{49} + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} \\ + x^{34} + x^{33} + x^{32} + x^{29} + x^{26} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18} \\ + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^6,$$

$$p_9(x) = x^{122} + x^{120} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{108} + x^{106} + x^{104} \\ + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} \\ + x^{88} + x^{87} + x^{86} + x^{85} + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} \\ + x^{67} + x^{65} + x^{63} + x^{61} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} + x^{51} \\ + x^{49} + x^{46} + x^{45} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{28} \\ + x^{27} + x^{18} + x^{14} + x^{13} + x^8 + x^4 + x^3,$$

$$p_{12}(x) = x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\ + x^{102} + x^{100} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} \\ + x^{72} + x^{69} + x^{68} + x^{66} + x^{64} + x^{41} + x^{40} + x^{38} + x^{37} + x^{34} + x^{32} \\ + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 \\ + x^2 + 1,$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{122} + x^{121} + x^{119} + x^{116} + x^{114} + x^{111} + x^{108} + x^{107} \\
&\quad + x^{106} + x^{105} + x^{104} + x^{103} + x^{101} + x^{99} + x^{98} + x^{97} + x^{91} + x^{86} \\
&\quad + x^{85} + x^{82} + x^{81} + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{71} + x^{70} \\
&\quad + x^{69} + x^{65} + x^{62} + x^{60} + x^{59} + x^{52} + x^{51} + x^{49} + x^{47} + x^{46} + x^{45} \\
&\quad + x^{44} + x^{43} + x^{41} + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{124} + x^{120} + x^{119} + x^{114} + x^{112} + x^{110} + x^{109} + x^{107} + x^{104} + x^{103} \\
&\quad + x^{102} + x^{98} + x^{97} + x^{94} + x^{89} + x^{88} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} \\
&\quad + x^{78} + x^{77} + x^{75} + x^{72} + x^{71} + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} \\
&\quad + x^{62} + x^{58} + x^{57} + x^{54} + x^{49} + x^{48} + x^{45} + x^{43} + x^{41} + x^{39} + x^{38} \\
&\quad + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{29} + x^{27} + x^{25} + x^{23} + x^{22} + x^{21} \\
&\quad + x^{19} + x^{18} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{115} + x^{112} + x^{111} + x^{109} + x^{107} \\
&\quad + x^{106} + x^{103} + x^{101} + x^{97} + x^{94} + x^{93} + x^{91} + x^{87} + x^{84} + x^{83} + x^{80} \\
&\quad + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} \\
&\quad + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\
&\quad + x^{49} + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} \\
&\quad + x^{34} + x^{33} + x^{32} + x^{29} + x^{26} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18} \\
&\quad + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^6, \\
p_9(x) &= x^{122} + x^{120} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{108} + x^{106} + x^{104} \\
&\quad + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} \\
&\quad + x^{88} + x^{87} + x^{86} + x^{85} + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} \\
&\quad + x^{67} + x^{65} + x^{63} + x^{61} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} + x^{51} \\
&\quad + x^{49} + x^{46} + x^{45} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{28} \\
&\quad + x^{27} + x^{18} + x^{14} + x^{13} + x^8 + x^4 + x^3, \\
p_{12}(x) &= x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\
&\quad + x^{102} + x^{100} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} \\
&\quad + x^{72} + x^{69} + x^{68} + x^{66} + x^{64} + x^{41} + x^{40} + x^{38} + x^{37} + x^{34} + x^{32} \\
&\quad + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 \\
&\quad + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{132} + x^{130} + x^{124} + x^{122} + x^{120} + x^{116} + x^{114} + x^{110} + x^{108} \\
&\quad + x^{106} + x^{102} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{86} + x^{84} + x^{82} + x^{80} \\
&\quad + x^{74} + x^{72} + x^{68} + x^{64} + x^{62} + x^{58} + x^{56} + x^{54} + x^{52} + x^{50} + x^{48}
\end{aligned}$$

$$\begin{aligned}
& + x^{44} + x^{38} + x^{36}, \\
p_3(x) &= x^{132} + x^{124} + x^{122} + x^{110} + x^{108} + x^{98} + x^{92} + x^{90} + x^{88} + x^{78} + x^{72} \\
& + x^{70} + x^{68} + x^{66} + x^{62} + x^{54} + x^{42} + x^{40} + x^{34} + x^{30} + x^{28} + x^{24} \\
& + x^{22} + x^{18} + x^{16} + x^{14} + x^8 + x^6, \\
p_6(x) &= x^{132} + x^{130} + x^{126} + x^{124} + x^{112} + x^{104} + x^{102} + x^{98} + x^{94} + x^{90} \\
& + x^{88} + x^{86} + x^{84} + x^{78} + x^{74} + x^{70} + x^{68} + x^{66} + x^{64} + x^{60} + x^{58} \\
& + x^{54} + x^{52} + x^{50} + x^{48} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{30} + x^{28} \\
& + x^{26} + x^{24} + x^{22} + x^{20} + x^{16} + x^{12} + x^{10} + x^8 + x^6 + 1, \\
p_9(x) &= x^{130} + x^{126} + x^{124} + x^{122} + x^{120} + x^{114} + x^{110} + x^{106} + x^{104} + x^{96} \\
& + x^{90} + x^{84} + x^{82} + x^{78} + x^{76} + x^{74} + x^{72} + x^{64} + x^{58} + x^{56} + x^{50} \\
& + x^{48} + x^{42} + x^{36} + x^{32} + x^{28} + x^{24} + x^{22} + x^{20} + x^{18} + x^{14} + x^{12} \\
& + x^4 + x^2, \\
p_{12}(x) &= x^{130} + x^{128} + x^{114} + x^{112} + x^{106} + x^{104} + x^{90} + x^{88} + x^{82} + x^{80} \\
& + x^{74} + x^{72} + x^{66} + x^{64} + x^{50} + x^{48} + x^{34} + x^{32} + x^{26} + x^{24} + x^{18} \\
& + x^{16} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{134} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} + x^{110} + x^{106} \\
& + x^{104} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{84} + x^{82} + x^{80} + x^{72} + x^{70} \\
& + x^{68} + x^{64} + x^{60} + x^{56} + x^{52} + x^{44} + x^{42} + x^{40} + x^{38} + x^{28} + x^{26} \\
& + x^{24} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_3(x) &= x^{132} + x^{128} + x^{120} + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{100} \\
& + x^{94} + x^{92} + x^{84} + x^{80} + x^{78} + x^{74} + x^{68} + x^{62} + x^{60} + x^{58} + x^{54} \\
& + x^{50} + x^{46} + x^{44} + x^{38} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{22} + x^{18} \\
& + x^{16} + x^{14} + x^{10} + x^8, \\
p_6(x) &= x^{132} + x^{130} + x^{128} + x^{124} + x^{118} + x^{114} + x^{112} + x^{108} + x^{104} + x^{102} \\
& + x^{94} + x^{92} + x^{84} + x^{80} + x^{76} + x^{74} + x^{70} + x^{64} + x^{62} + x^{60} + x^{48} \\
& + x^{44} + x^{40} + x^{38} + x^{34} + x^{32} + x^{30} + x^{28} + x^{22} + x^{20} + x^{18} + x^{14} \\
& + x^{10} + x^6 + x^4 + 1, \\
p_9(x) &= x^{130} + x^{126} + x^{124} + x^{122} + x^{120} + x^{114} + x^{110} + x^{106} + x^{104} + x^{96} \\
& + x^{90} + x^{84} + x^{82} + x^{78} + x^{76} + x^{74} + x^{72} + x^{64} + x^{58} + x^{56} + x^{50} \\
& + x^{48} + x^{42} + x^{36} + x^{32} + x^{28} + x^{24} + x^{22} + x^{20} + x^{18} + x^{14} + x^{12} \\
& + x^4 + x^2, \\
p_{12}(x) &= x^{130} + x^{128} + x^{114} + x^{112} + x^{106} + x^{104} + x^{90} + x^{88} + x^{82} + x^{80} \\
& + x^{74} + x^{72} + x^{66} + x^{64} + x^{50} + x^{48} + x^{34} + x^{32} + x^{26} + x^{24} + x^{18}
\end{aligned}$$

$$+ x^{16} + x^{10} + x^8 + x^2 + 1,$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{123} + x^{121} + x^{120} + x^{117} + x^{116} + x^{113} + x^{111} + x^{107} + x^{106} \\ & + x^{105} + x^{104} + x^{102} + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} \\ & + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} \\ & + x^{73} + x^{66} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} \\ & + x^{53} + x^{52} + x^{50} + x^{46} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{34} + x^{33} \\ & + x^{32} + x^{29} + x^{28} + x^{26} + x^{25} + x^{23} + x^{22} + x^{20} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{124} + x^{120} + x^{119} + x^{114} + x^{112} + x^{110} + x^{109} + x^{107} + x^{104} + x^{103} \\ & + x^{102} + x^{98} + x^{97} + x^{94} + x^{89} + x^{88} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} \\ & + x^{78} + x^{77} + x^{75} + x^{72} + x^{71} + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} \\ & + x^{62} + x^{58} + x^{57} + x^{54} + x^{49} + x^{48} + x^{45} + x^{43} + x^{41} + x^{39} + x^{38} \\ & + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{29} + x^{27} + x^{25} + x^{23} + x^{22} + x^{21} \\ & + x^{19} + x^{18} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{115} + x^{112} + x^{111} + x^{109} + x^{107} \\ & + x^{106} + x^{103} + x^{101} + x^{97} + x^{94} + x^{93} + x^{91} + x^{87} + x^{84} + x^{83} + x^{80} \\ & + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} \\ & + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\ & + x^{49} + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} \\ & + x^{34} + x^{33} + x^{32} + x^{29} + x^{26} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18} \\ & + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^6, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{122} + x^{120} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{108} + x^{106} + x^{104} \\ & + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} \\ & + x^{88} + x^{87} + x^{86} + x^{85} + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} \\ & + x^{67} + x^{65} + x^{63} + x^{61} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} + x^{51} \\ & + x^{49} + x^{46} + x^{45} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{28} \\ & + x^{27} + x^{18} + x^{14} + x^{13} + x^8 + x^4 + x^3, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\ & + x^{102} + x^{100} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} \\ & + x^{72} + x^{69} + x^{68} + x^{66} + x^{64} + x^{41} + x^{40} + x^{38} + x^{37} + x^{34} + x^{32} \\ & + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 \\ & + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{123} + x^{121} + x^{120} + x^{117} + x^{116} + x^{113} + x^{111} + x^{107} + x^{106} \\ & + x^{105} + x^{104} + x^{102} + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} \\ & + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} + x^{75} \\ & + x^{73} + x^{66} + x^{64} + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} \\ & + x^{53} + x^{52} + x^{50} + x^{46} + x^{44} + x^{43} + x^{42} + x^{41} + x^{40} + x^{34} + x^{33} \\ & + x^{32} + x^{29} + x^{28} + x^{26} + x^{25} + x^{23} + x^{22} + x^{20} + x^{18}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{124} + x^{120} + x^{119} + x^{114} + x^{112} + x^{110} + x^{109} + x^{107} + x^{104} + x^{103} \\ & + x^{102} + x^{98} + x^{97} + x^{94} + x^{89} + x^{88} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} \\ & + x^{78} + x^{77} + x^{75} + x^{72} + x^{71} + x^{70} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} \\ & + x^{62} + x^{58} + x^{57} + x^{54} + x^{49} + x^{48} + x^{45} + x^{43} + x^{41} + x^{39} + x^{38} \\ & + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{29} + x^{27} + x^{25} + x^{23} + x^{22} + x^{21} \\ & + x^{19} + x^{18} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{115} + x^{112} + x^{111} + x^{109} + x^{107} \\ & + x^{106} + x^{103} + x^{101} + x^{97} + x^{94} + x^{93} + x^{91} + x^{87} + x^{84} + x^{83} + x^{80} \\ & + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} \\ & + x^{62} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\ & + x^{49} + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} \\ & + x^{34} + x^{33} + x^{32} + x^{29} + x^{26} + x^{25} + x^{23} + x^{21} + x^{20} + x^{19} + x^{18} \\ & + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^6, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{122} + x^{120} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} + x^{108} + x^{106} + x^{104} \\ & + x^{103} + x^{102} + x^{101} + x^{100} + x^{98} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} \\ & + x^{88} + x^{87} + x^{86} + x^{85} + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{72} + x^{69} \\ & + x^{67} + x^{65} + x^{63} + x^{61} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} + x^{51} \\ & + x^{49} + x^{46} + x^{45} + x^{40} + x^{38} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{28} \\ & + x^{27} + x^{18} + x^{14} + x^{13} + x^8 + x^4 + x^3, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{121} + x^{120} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} + x^{106} + x^{105} \\ & + x^{102} + x^{100} + x^{93} + x^{92} + x^{90} + x^{89} + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} \\ & + x^{72} + x^{69} + x^{68} + x^{66} + x^{64} + x^{41} + x^{40} + x^{38} + x^{37} + x^{34} + x^{32} \\ & + x^{29} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{13} + x^{12} + x^{10} + x^8 + x^5 + x^4 \\ & + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{114} + x^{110} + x^{108} + x^{106} + x^{100} + x^{98} + x^{94} + x^{88} + x^{82} + x^{76} + x^{74} \\ & + x^{70} + x^{68} + x^{60} + x^{56} + x^{54} + x^{52} + x^{46} + x^{44} + x^{40} + x^{38} + x^{36} \end{aligned}$$

$$\begin{aligned}
& + x^{34} + x^{30} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{88} + x^{80} \\
& + x^{76} + x^{72} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} + x^{50} + x^{48} \\
& + x^{46} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{26} + x^{22} + x^{20} + x^{16} \\
& + x^{10} + x^8 + x^6, \\
p_6(x) &= x^{110} + x^{108} + x^{106} + x^{96} + x^{94} + x^{92} + x^{88} + x^{86} + x^{78} + x^{74} + x^{72} \\
& + x^{70} + x^{68} + x^{64} + x^{56} + x^{52} + x^{50} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} \\
& + x^{30} + x^{22} + x^{20} + x^8 + x^6 + 1, \\
p_9(x) &= x^{112} + x^{110} + x^{104} + x^{102} + x^{96} + x^{92} + x^{86} + x^{76} + x^{66} + x^{62} + x^{60} \\
& + x^{58} + x^{56} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} \\
& + x^{24} + x^{22} + x^{18} + x^{14} + x^{12} + x^{10} + x^4 + x^2, \\
p_{12}(x) &= x^{112} + x^{106} + x^{98} + x^{90} + x^{82} + x^{74} + x^{66} + x^{64} + x^{32} + x^{26} + x^{18} \\
& + x^{10} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{119} + x^{117} + x^{115} + x^{112} + x^{109} \\
& + x^{108} + x^{107} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{94} \\
& + x^{92} + x^{88} + x^{85} + x^{81} + x^{76} + x^{72} + x^{71} + x^{64} + x^{63} + x^{62} + x^{59} \\
& + x^{58} + x^{55} + x^{53} + x^{52} + x^{51} + x^{49} + x^{47} + x^{45} + x^{43} + x^{40} + x^{38} \\
& + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} \\
& + x^{19} + x^{17} + x^{16} + x^{12}, \\
p_3(x) &= x^{125} + x^{123} + x^{119} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{104} + x^{102} + x^{101} + x^{99} + x^{91} + x^{83} + x^{79} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{64} + x^{62} + x^{54} + x^{53} + x^{52} + x^{47} \\
& + x^{45} + x^{44} + x^{43} + x^{41} + x^{39} + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} \\
& + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{20} + x^{19} + x^{18} + x^{15} \\
& + x^{14} + x^{13} + x^8, \\
p_6(x) &= x^{125} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{113} + x^{112} + x^{110} + x^{107} \\
& + x^{105} + x^{104} + x^{103} + x^{99} + x^{96} + x^{93} + x^{86} + x^{84} + x^{83} + x^{80} + x^{78} \\
& + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{67} + x^{66} + x^{63} + x^{62} + x^{59} \\
& + x^{57} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{46} + x^{45} + x^{39} + x^{38} + x^{37} \\
& + x^{36} + x^{35} + x^{31} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{21} + x^{19} \\
& + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^5 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{105} + x^{104} + x^{102} + x^{100} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{68} + x^{45} + x^{44} + x^{42}
\end{aligned}$$

$$\begin{aligned}
& + x^{40} + x^{25} + x^{24} + x^{22} + x^{20} + x^{13} + x^{12} + x^{10} + x^9 + x^6 + x^4, \\
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} \\
& + x^{106} + x^{104} + x^{93} + x^{92} + x^{90} + x^{88} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} \\
& + x^{64} + x^{45} + x^{44} + x^{42} + x^{41} + x^{38} + x^{37} + x^{34} + x^{32} + x^{29} + x^{28} \\
& + x^{26} + x^{24} + x^9 + x^8 + x^6 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{140} + x^{137} + x^{133} + x^{132} + x^{131} + x^{130} + x^{127} + x^{126} + x^{124} + x^{123} \\
& + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{109} + x^{108} \\
& + x^{102} + x^{101} + x^{99} + x^{98} + x^{97} + x^{95} + x^{92} + x^{91} + x^{89} + x^{85} + x^{84} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{69} + x^{67} \\
& + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\
& + x^{51} + x^{46} + x^{45} + x^{44} + x^{42} + x^{39} + x^{38} + x^{37} + x^{30} + x^{29} + x^{26} \\
& + x^{24}, \\
p_3(x) = & x^{133} + x^{132} + x^{131} + x^{129} + x^{127} + x^{126} + x^{125} + x^{123} + x^{122} + x^{120} \\
& + x^{118} + x^{117} + x^{114} + x^{111} + x^{110} + x^{107} + x^{105} + x^{104} + x^{103} \\
& + x^{102} + x^{100} + x^{99} + x^{95} + x^{90} + x^{89} + x^{87} + x^{84} + x^{83} + x^{81} + x^{79} \\
& + x^{78} + x^{77} + x^{76} + x^{72} + x^{69} + x^{68} + x^{66} + x^{64} + x^{63} + x^{62} + x^{60} \\
& + x^{59} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{46} + x^{43} + x^{42} + x^{40} + x^{38} \\
& + x^{33} + x^{30} + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} + x^{20} + x^{18} + x^{16} \\
& + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{134} + x^{132} + x^{130} + x^{126} + x^{118} + x^{116} + x^{114} + x^{112} + x^{102} + x^{100} \\
& + x^{94} + x^{90} + x^{86} + x^{84} + x^{72} + x^{60} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} \\
& + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^8 + x^6, \\
p_9(x) = & x^{135} + x^{134} + x^{132} + x^{131} + x^{130} + x^{129} + x^{128} + x^{122} + x^{120} + x^{119} \\
& + x^{118} + x^{117} + x^{115} + x^{111} + x^{107} + x^{106} + x^{102} + x^{101} + x^{100} \\
& + x^{95} + x^{91} + x^{90} + x^{87} + x^{85} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{75} \\
& + x^{72} + x^{71} + x^{68} + x^{67} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\
& + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} + x^{35} + x^{31} + x^{27} + x^{26} + x^{23} + x^{21} \\
& + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{11} + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) = & x^{136} + x^{132} + x^{128} + x^{124} + x^{120} + x^{112} + x^{108} + x^{92} + x^{88} + x^{84} \\
& + x^{80} + x^{72} + x^{64} + x^{56} + x^{52} + x^{48} + x^{44} + x^{40} + x^{32} + x^{28} + x^{24} \\
& + x^{20} + x^{16} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{114} + x^{113} + x^{109} + x^{108} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{99} + x^{96} + x^{95} + x^{94} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} \\
&\quad + x^{85} + x^{84} + x^{83} + x^{80} + x^{79} + x^{78} + x^{77} + x^{72} + x^{71} + x^{70} + x^{69} \\
&\quad + x^{67} + x^{63} + x^{62} + x^{60} + x^{59} + x^{57} + x^{54} + x^{50} + x^{48} + x^{47} + x^{45} \\
&\quad + x^{44} + x^{43} + x^{36} + x^{30} + x^{25} + x^{22} + x^{20} + x^{18}, \\
p_3(x) &= x^{121} + x^{120} + x^{119} + x^{116} + x^{114} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} \\
&\quad + x^{99} + x^{98} + x^{94} + x^{93} + x^{91} + x^{86} + x^{85} + x^{83} + x^{81} + x^{72} + x^{71} \\
&\quad + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} \\
&\quad + x^{59} + x^{58} + x^{54} + x^{53} + x^{51} + x^{46} + x^{45} + x^{43} + x^{40} + x^{39} + x^{36} \\
&\quad + x^{34} + x^{33} + x^{30} + x^{29} + x^{27} + x^{24} + x^{23} + x^{20} + x^{18} + x^{16} + x^{15} \\
&\quad + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{122} + x^{120} + x^{116} + x^{108} + x^{104} + x^{100} + x^{98} + x^{90} + x^{88} + x^{78} \\
&\quad + x^{76} + x^{74} + x^{70} + x^{68} + x^{66} + x^{64} + x^{50} + x^{42} + x^{30} + x^{22} + x^8 \\
&\quad + x^6, \\
p_9(x) &= x^{123} + x^{122} + x^{120} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{106} \\
&\quad + x^{103} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} + x^{90} + x^{87} + x^{85} + x^{84} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{79} + x^{75} + x^{72} + x^{71} + x^{68} + x^{67} + x^{43} + x^{42} \\
&\quad + x^{40} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{26} + x^{23} + x^{21} + x^{20} \\
&\quad + x^{18} + x^{17} + x^{16} + x^{15} + x^{11} + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{124} + x^{112} + x^{108} + x^{104} + x^{92} + x^{88} + x^{72} + x^{64} + x^{44} + x^{32} + x^{28} \\
&\quad + x^{24} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{121} + x^{118} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{106} \\
&\quad + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{97} + x^{94} + x^{93} + x^{90} + x^{87} \\
&\quad + x^{82} + x^{81} + x^{76} + x^{75} + x^{74} + x^{71} + x^{69} + x^{68} + x^{66} + x^{64} + x^{62} \\
&\quad + x^{60} + x^{59} + x^{57} + x^{54} + x^{51} + x^{48} + x^{45} + x^{44} + x^{42} + x^{38} + x^{37} \\
&\quad + x^{30}, \\
p_3(x) &= x^{125} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{111} + x^{109} \\
&\quad + x^{108} + x^{105} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} \\
&\quad + x^{87} + x^{85} + x^{84} + x^{83} + x^{81} + x^{75} + x^{74} + x^{73} + x^{71} + x^{68} + x^{67} \\
&\quad + x^{64} + x^{61} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{49} + x^{42} + x^{40} + x^{35} \\
&\quad + x^{31} + x^{30} + x^{24} + x^{20} + x^{18} + x^{17} + x^{12}, \\
p_6(x) &= x^{125} + x^{122} + x^{119} + x^{118} + x^{112} + x^{111} + x^{109} + x^{108} + x^{106} + x^{102}
\end{aligned}$$

$$\begin{aligned}
& + x^{101} + x^{100} + x^{99} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} + x^{85} + x^{82} + x^{81} \\
& + x^{78} + x^{71} + x^{69} + x^{68} + x^{66} + x^{65} + x^{64} + x^{61} + x^{60} + x^{58} + x^{57} \\
& + x^{56} + x^{52} + x^{51} + x^{49} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{37} + x^{36} \\
& + x^{33} + x^{31} + x^{30} + x^{27} + x^{25} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^{10} \\
& + x^5 + x^4 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{105} + x^{104} + x^{102} + x^{100} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{68} + x^{45} + x^{44} + x^{42} \\
& + x^{40} + x^{25} + x^{24} + x^{22} + x^{20} + x^{13} + x^{12} + x^{10} + x^9 + x^6 + x^4, \\
p_{12}(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} \\
& + x^{106} + x^{104} + x^{93} + x^{92} + x^{90} + x^{88} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} \\
& + x^{64} + x^{45} + x^{44} + x^{42} + x^{41} + x^{38} + x^{37} + x^{34} + x^{32} + x^{29} + x^{28} \\
& + x^{26} + x^{24} + x^9 + x^8 + x^6 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{119} + x^{117} + x^{115} + x^{112} + x^{109} \\
& + x^{108} + x^{107} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{94} \\
& + x^{92} + x^{88} + x^{85} + x^{81} + x^{76} + x^{72} + x^{71} + x^{64} + x^{63} + x^{62} + x^{59} \\
& + x^{58} + x^{55} + x^{53} + x^{52} + x^{51} + x^{49} + x^{47} + x^{45} + x^{43} + x^{40} + x^{38} \\
& + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} \\
& + x^{19} + x^{17} + x^{16} + x^{12}, \\
p_3(x) &= x^{125} + x^{123} + x^{119} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{109} + x^{108} \\
& + x^{107} + x^{105} + x^{104} + x^{102} + x^{101} + x^{99} + x^{91} + x^{83} + x^{79} + x^{74} \\
& + x^{73} + x^{72} + x^{71} + x^{70} + x^{69} + x^{64} + x^{62} + x^{54} + x^{53} + x^{52} + x^{47} \\
& + x^{45} + x^{44} + x^{43} + x^{41} + x^{39} + x^{38} + x^{35} + x^{34} + x^{33} + x^{32} + x^{30} \\
& + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{20} + x^{19} + x^{18} + x^{15} \\
& + x^{14} + x^{13} + x^8, \\
p_6(x) &= x^{125} + x^{123} + x^{120} + x^{118} + x^{116} + x^{115} + x^{113} + x^{112} + x^{110} + x^{107} \\
& + x^{105} + x^{104} + x^{103} + x^{99} + x^{96} + x^{93} + x^{86} + x^{84} + x^{83} + x^{80} + x^{78} \\
& + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{67} + x^{66} + x^{63} + x^{62} + x^{59} \\
& + x^{57} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{46} + x^{45} + x^{39} + x^{38} + x^{37} \\
& + x^{36} + x^{35} + x^{31} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{21} + x^{19} \\
& + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^5 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{105} + x^{104} + x^{102} + x^{100} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{68} + x^{45} + x^{44} + x^{42} \\
& + x^{40} + x^{25} + x^{24} + x^{22} + x^{20} + x^{13} + x^{12} + x^{10} + x^9 + x^6 + x^4,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} \\
& + x^{106} + x^{104} + x^{93} + x^{92} + x^{90} + x^{88} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} \\
& + x^{64} + x^{45} + x^{44} + x^{42} + x^{41} + x^{38} + x^{37} + x^{34} + x^{32} + x^{29} + x^{28} \\
& + x^{26} + x^{24} + x^9 + x^8 + x^6 + x^5 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{114} + x^{113} + x^{109} + x^{108} + x^{104} \\
& + x^{102} + x^{101} + x^{99} + x^{96} + x^{95} + x^{94} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} \\
& + x^{85} + x^{84} + x^{83} + x^{80} + x^{79} + x^{78} + x^{77} + x^{72} + x^{71} + x^{70} + x^{69} \\
& + x^{67} + x^{63} + x^{62} + x^{60} + x^{59} + x^{57} + x^{54} + x^{50} + x^{48} + x^{47} + x^{45} \\
& + x^{44} + x^{43} + x^{36} + x^{30} + x^{25} + x^{22} + x^{20} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{121} + x^{120} + x^{119} + x^{116} + x^{114} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} \\
& + x^{99} + x^{98} + x^{94} + x^{93} + x^{91} + x^{86} + x^{85} + x^{83} + x^{81} + x^{72} + x^{71} \\
& + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} \\
& + x^{59} + x^{58} + x^{54} + x^{53} + x^{51} + x^{46} + x^{45} + x^{43} + x^{40} + x^{39} + x^{36} \\
& + x^{34} + x^{33} + x^{30} + x^{29} + x^{27} + x^{24} + x^{23} + x^{20} + x^{18} + x^{16} + x^{15} \\
& + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{122} + x^{120} + x^{116} + x^{108} + x^{104} + x^{100} + x^{98} + x^{90} + x^{88} + x^{78} \\
& + x^{76} + x^{74} + x^{70} + x^{68} + x^{66} + x^{64} + x^{50} + x^{42} + x^{30} + x^{22} + x^8 \\
& + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{123} + x^{122} + x^{120} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{106} \\
& + x^{103} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{95} + x^{90} + x^{87} + x^{85} + x^{84} \\
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{75} + x^{72} + x^{71} + x^{68} + x^{67} + x^{43} + x^{42} \\
& + x^{40} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{31} + x^{26} + x^{23} + x^{21} + x^{20} \\
& + x^{18} + x^{17} + x^{16} + x^{15} + x^{11} + x^8 + x^7 + x^4 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{124} + x^{112} + x^{108} + x^{104} + x^{92} + x^{88} + x^{72} + x^{64} + x^{44} + x^{32} + x^{28} \\
& + x^{24} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{140} + x^{137} + x^{133} + x^{132} + x^{131} + x^{130} + x^{127} + x^{126} + x^{124} + x^{123} \\
& + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{111} + x^{109} + x^{108} \\
& + x^{102} + x^{101} + x^{99} + x^{98} + x^{97} + x^{95} + x^{92} + x^{91} + x^{89} + x^{85} + x^{84} \\
& + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{73} + x^{69} + x^{67} \\
& + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\
& + x^{51} + x^{46} + x^{45} + x^{44} + x^{42} + x^{39} + x^{38} + x^{37} + x^{30} + x^{29} + x^{26}
\end{aligned}$$

$$\begin{aligned}
& + x^{24}, \\
p_3(x) &= x^{133} + x^{132} + x^{131} + x^{129} + x^{127} + x^{126} + x^{125} + x^{123} + x^{122} + x^{120} \\
& + x^{118} + x^{117} + x^{114} + x^{111} + x^{110} + x^{107} + x^{105} + x^{104} + x^{103} \\
& + x^{102} + x^{100} + x^{99} + x^{95} + x^{90} + x^{89} + x^{87} + x^{84} + x^{83} + x^{81} + x^{79} \\
& + x^{78} + x^{77} + x^{76} + x^{72} + x^{69} + x^{68} + x^{66} + x^{64} + x^{63} + x^{62} + x^{60} \\
& + x^{59} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{46} + x^{43} + x^{42} + x^{40} + x^{38} \\
& + x^{33} + x^{30} + x^{29} + x^{28} + x^{26} + x^{25} + x^{24} + x^{23} + x^{20} + x^{18} + x^{16} \\
& + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{134} + x^{132} + x^{130} + x^{126} + x^{118} + x^{116} + x^{114} + x^{112} + x^{102} + x^{100} \\
& + x^{94} + x^{90} + x^{86} + x^{84} + x^{72} + x^{60} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} \\
& + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^8 + x^6, \\
p_9(x) &= x^{135} + x^{134} + x^{132} + x^{131} + x^{130} + x^{129} + x^{128} + x^{122} + x^{120} + x^{119} \\
& + x^{118} + x^{117} + x^{115} + x^{111} + x^{107} + x^{106} + x^{102} + x^{101} + x^{100} \\
& + x^{95} + x^{91} + x^{90} + x^{87} + x^{85} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{75} \\
& + x^{72} + x^{71} + x^{68} + x^{67} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} \\
& + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} + x^{35} + x^{31} + x^{27} + x^{26} + x^{23} + x^{21} \\
& + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{11} + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{136} + x^{132} + x^{128} + x^{124} + x^{120} + x^{112} + x^{108} + x^{92} + x^{88} + x^{84} \\
& + x^{80} + x^{72} + x^{64} + x^{56} + x^{52} + x^{48} + x^{44} + x^{40} + x^{32} + x^{28} + x^{24} \\
& + x^{20} + x^{16} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{124} + x^{121} + x^{118} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{97} + x^{94} + x^{93} + x^{90} + x^{87} \\
& + x^{82} + x^{81} + x^{76} + x^{75} + x^{74} + x^{71} + x^{69} + x^{68} + x^{66} + x^{64} + x^{62} \\
& + x^{60} + x^{59} + x^{57} + x^{54} + x^{51} + x^{48} + x^{45} + x^{44} + x^{42} + x^{38} + x^{37} \\
& + x^{30}, \\
p_3(x) &= x^{125} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{111} + x^{109} \\
& + x^{108} + x^{105} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} \\
& + x^{87} + x^{85} + x^{84} + x^{83} + x^{81} + x^{75} + x^{74} + x^{73} + x^{71} + x^{68} + x^{67} \\
& + x^{64} + x^{61} + x^{60} + x^{58} + x^{56} + x^{54} + x^{50} + x^{49} + x^{42} + x^{40} + x^{35} \\
& + x^{31} + x^{30} + x^{24} + x^{20} + x^{18} + x^{17} + x^{12}, \\
p_6(x) &= x^{125} + x^{122} + x^{119} + x^{118} + x^{112} + x^{111} + x^{109} + x^{108} + x^{106} + x^{102} \\
& + x^{101} + x^{100} + x^{99} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} + x^{85} + x^{82} + x^{81} \\
& + x^{78} + x^{71} + x^{69} + x^{68} + x^{66} + x^{65} + x^{64} + x^{61} + x^{60} + x^{58} + x^{57}
\end{aligned}$$

$$\begin{aligned}
& + x^{56} + x^{52} + x^{51} + x^{49} + x^{45} + x^{44} + x^{43} + x^{42} + x^{41} + x^{37} + x^{36} \\
& + x^{33} + x^{31} + x^{30} + x^{27} + x^{25} + x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^{10} \\
& + x^5 + x^4 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{105} + x^{104} + x^{102} + x^{100} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{77} + x^{76} + x^{74} + x^{73} + x^{70} + x^{68} + x^{45} + x^{44} + x^{42} \\
& + x^{40} + x^{25} + x^{24} + x^{22} + x^{20} + x^{13} + x^{12} + x^{10} + x^9 + x^6 + x^4, \\
p_{12}(x) &= x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{114} + x^{112} + x^{109} + x^{108} \\
& + x^{106} + x^{104} + x^{93} + x^{92} + x^{90} + x^{88} + x^{73} + x^{72} + x^{70} + x^{69} + x^{66} \\
& + x^{64} + x^{45} + x^{44} + x^{42} + x^{41} + x^{38} + x^{37} + x^{34} + x^{32} + x^{29} + x^{28} \\
& + x^{26} + x^{24} + x^9 + x^8 + x^6 + x^5 + x^2 + 1,
\end{aligned}$$

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

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]	2041	[1407, 3320]	4082	[5432, 1103]	6123	[6457, 5271]
1	[3, 4]	2042	[3321, 2997]	4083	[3406, 5433]	6124	[4776, 6991]
2	[5, 6]	2043	[3322, 454]	4084	[5434, 5435]	6125	[60, 4246]
3	[7, 8]	2044	[1019, 3323]	4085	[5436, 1447]	6126	[6992, 6993]
4	[9, 10]	2045	[3324, 3325]	4086	[5437, 2824]	6127	[6994, 1714]
5	[11, 12]	2046	[3326, 3327]	4087	[3717, 5438]	6128	[6995, 35]
6	[13, 14]	2047	[3328, 3329]	4088	[5439, 5440]	6129	[6839, 6996]
7	[15, 16]	2048	[3330, 1142]	4089	[5441, 5442]	6130	[1999, 2273]
8	[17, 18]	2049	[3331, 3332]	4090	[5443, 2915]	6131	[6997, 6819]
9	[19, 20]	2050	[3333, 931]	4091	[5444, 908]	6132	[6998, 2074]
10	[21, 22]	2051	[3334, 1538]	4092	[913, 3563]	6133	[4279, 2320]
11	[23, 24]	2052	[3335, 3336]	4093	[5438, 3941]	6134	[6999, 2307]
12	[25, 26]	2053	[1155, 3337]	4094	[1011, 3452]	6135	[2048, 6793]
13	[27, 28]	2054	[1145, 3338]	4095	[5445, 2683]	6136	[741, 5219]
14	[29, 30]	2055	[1039, 3339]	4096	[5446, 2831]	6137	[7000, 4979]
15	[31, 32]	2056	[2719, 1467]	4097	[5447, 1322]	6138	[7001, 1961]
16	[33, 34]	2057	[1118, 2672]	4098	[5448, 3369]	6139	[7002, 2204]
17	[35, 36]	2058	[3340, 1038]	4099	[5449, 3929]	6140	[7003, 4246]
18	[37, 38]	2059	[3341, 115]	4100	[5450, 1161]	6141	[4979, 6844]
19	[39, 40]	2060	[3342, 248]	4101	[3663, 5451]	6142	[4201, 2113]
20	[41, 42]	2061	[3343, 3344]	4102	[3636, 2688]	6143	[7004, 4536]
21	[43, 44]	2062	[3345, 3271]	4103	[2954, 5452]	6144	[7005, 5101]
22	[45, 46]	2063	[1552, 112]	4104	[4104, 4104]	6145	[163, 5118]
23	[47, 48]	2064	[1377, 3346]	4105	[5453, 5454]	6146	[7006, 6737]
24	[49, 50]	2065	[3347, 3348]	4106	[2739, 5435]	6147	[7007, 471]
25	[51, 52]	2066	[261, 3349]	4107	[5455, 5456]	6148	[7008, 722]

26	[53, 54]	2067	[3350, 2782]	4108	[3895, 277]	6149	[7009, 4204]
27	[55, 56]	2068	[3351, 3352]	4109	[5457, 3558]	6150	[7010, 6868]
28	[57, 58]	2069	[3353, 1513]	4110	[5458, 1436]	6151	[7011, 6993]
29	[59, 60]	2070	[3354, 3355]	4111	[5435, 3895]	6152	[4133, 811]
30	[61, 62]	2071	[3017, 3356]	4112	[2737, 2731]	6153	[7012, 4810]
31	[63, 64]	2072	[3357, 1384]	4113	[1182, 906]	6154	[7013, 5225]
32	[65, 66]	2073	[3358, 3359]	4114	[5452, 5384]	6155	[7014, 1695]
33	[67, 68]	2074	[1173, 2995]	4115	[3559, 2736]	6156	[5126, 4901]
34	[69, 70]	2075	[3360, 2767]	4116	[5459, 5460]	6157	[7015, 661]
35	[71, 72]	2076	[3361, 3362]	4117	[5461, 2948]	6158	[4456, 5275]
36	[73, 74]	2077	[3363, 3364]	4118	[5456, 988]	6159	[7016, 7017]
37	[75, 76]	2078	[1052, 3365]	4119	[381, 5462]	6160	[7018, 7019]
38	[77, 78]	2079	[3366, 3367]	4120	[3517, 1303]	6161	[7020, 6711]
39	[79, 80]	2080	[3368, 1226]	4121	[322, 2718]	6162	[7021, 167]
40	[81, 77]	2081	[3369, 3370]	4122	[319, 5463]	6163	[4802, 4109]
41	[82, 83]	2082	[3371, 3372]	4123	[321, 5464]	6164	[7022, 4646]
42	[84, 85]	2083	[3373, 3374]	4124	[5465, 5466]	6165	[7023, 4028]
43	[86, 87]	2084	[68, 3375]	4125	[5467, 921]	6166	[7024, 2472]
44	[88, 89]	2085	[3376, 3377]	4126	[3203, 5468]	6167	[7019, 2047]
45	[90, 91]	2086	[3378, 3071]	4127	[5469, 1137]	6168	[7025, 675]
46	[92, 63]	2087	[3379, 1351]	4128	[5470, 2930]	6169	[5163, 4335]
47	[93, 94]	2088	[3310, 3380]	4129	[2929, 2715]	6170	[7026, 2516]
48	[95, 96]	2089	[3381, 3382]	4130	[5471, 5472]	6171	[2600, 4271]
49	[97, 98]	2090	[3383, 1096]	4131	[1432, 3605]	6172	[7027, 5034]
50	[99, 100]	2091	[2643, 3384]	4132	[5473, 3002]	6173	[7028, 2462]
51	[101, 102]	2092	[3385, 3386]	4133	[2838, 3669]	6174	[7029, 4580]
52	[103, 104]	2093	[3387, 3388]	4134	[3069, 2717]	6175	[7030, 7031]
53	[105, 106]	2094	[3389, 3390]	4135	[5474, 338]	6176	[5334, 6661]
54	[107, 108]	2095	[2822, 3131]	4136	[3204, 1230]	6177	[7032, 2]
55	[109, 110]	2096	[3391, 320]	4137	[3462, 3926]	6178	[7033, 6978]
56	[111, 112]	2097	[3392, 1032]	4138	[5475, 5476]	6179	[7034, 5232]
57	[113, 114]	2098	[3393, 3394]	4139	[3634, 5370]	6180	[7035, 6519]
58	[115, 116]	2099	[3395, 3396]	4140	[5477, 2808]	6181	[4910, 782]
59	[117, 118]	2100	[3397, 298]	4141	[5478, 5479]	6182	[6832, 1695]
60	[119, 120]	2101	[3043, 3398]	4142	[5480, 5481]	6183	[5286, 4856]
61	[121, 122]	2102	[3399, 3117]	4143	[5482, 3924]	6184	[2605, 1783]
62	[123, 124]	2103	[2885, 949]	4144	[2686, 2919]	6185	[715, 4709]
63	[125, 126]	2104	[1066, 3400]	4145	[5483, 1386]	6186	[693, 5260]
64	[127, 128]	2105	[3401, 3402]	4146	[5484, 5485]	6187	[7036, 5288]
65	[129, 130]	2106	[3403, 3177]	4147	[5486, 3042]	6188	[7037, 4654]
66	[131, 132]	2107	[3404, 1536]	4148	[5487, 1508]	6189	[4937, 2535]
67	[133, 134]	2108	[3405, 3406]	4149	[5488, 1402]	6190	[7038, 4835]
68	[135, 136]	2109	[3407, 3408]	4150	[5489, 5490]	6191	[7039, 7040]
69	[137, 138]	2110	[1430, 1136]	4151	[5491, 5492]	6192	[7041, 4319]

70	[139, 140]	2111	[3409, 3045]	4152	[5493, 1060]	6193	[6879, 4251]
71	[141, 142]	2112	[3410, 3411]	4153	[253, 280]	6194	[7042, 4532]
72	[143, 144]	2113	[3412, 1522]	4154	[5494, 1069]	6195	[7043, 6433]
73	[40, 145]	2114	[3413, 1341]	4155	[5495, 3921]	6196	[7044, 6547]
74	[146, 147]	2115	[1244, 3414]	4156	[5496, 3987]	6197	[2139, 5208]
75	[148, 149]	2116	[3415, 3416]	4157	[5497, 2883]	6198	[7045, 2061]
76	[150, 127]	2117	[3417, 3012]	4158	[3352, 5498]	6199	[5010, 6715]
77	[151, 152]	2118	[3418, 3419]	4159	[5499, 1394]	6200	[7046, 6475]
78	[153, 154]	2119	[3420, 1500]	4160	[5500, 3573]	6201	[2538, 1916]
79	[155, 156]	2120	[3421, 85]	4161	[5501, 3574]	6202	[7047, 2398]
80	[157, 158]	2121	[267, 3422]	4162	[5502, 2797]	6203	[6991, 204]
81	[159, 153]	2122	[1248, 2982]	4163	[341, 3091]	6204	[4656, 5195]
82	[160, 161]	2123	[3423, 3424]	4164	[2959, 5422]	6205	[846, 6556]
83	[162, 163]	2124	[3425, 272]	4165	[5503, 81]	6206	[7048, 1712]
84	[164, 165]	2125	[3426, 1054]	4166	[3150, 3690]	6207	[7049, 2003]
85	[166, 167]	2126	[3427, 1239]	4167	[5504, 1461]	6208	[4702, 5109]
86	[168, 169]	2127	[3428, 3429]	4168	[3288, 983]	6209	[6863, 6920]
87	[170, 171]	2128	[3122, 1427]	4169	[3868, 5505]	6210	[7050, 812]
88	[172, 173]	2129	[3430, 1508]	4170	[5506, 2873]	6211	[7051, 711]
89	[174, 175]	2130	[3431, 3432]	4171	[5507, 1049]	6212	[7052, 4147]
90	[176, 177]	2131	[3433, 1064]	4172	[1353, 2695]	6213	[7053, 145]
91	[178, 179]	2132	[3434, 1463]	4173	[5508, 3143]	6214	[7054, 6458]
92	[180, 127]	2133	[3435, 1290]	4174	[5509, 1178]	6215	[4467, 4847]
93	[181, 182]	2134	[3436, 3437]	4175	[5510, 1013]	6216	[7055, 4160]
94	[183, 184]	2135	[3438, 3439]	4176	[5511, 5512]	6217	[2019, 5334]
95	[185, 186]	2136	[3440, 3441]	4177	[5513, 1228]	6218	[4031, 1920]
96	[187, 188]	2137	[3034, 3442]	4178	[3325, 258]	6219	[7056, 4003]
97	[189, 190]	2138	[3443, 3444]	4179	[5514, 2931]	6220	[7057, 5097]
98	[191, 192]	2139	[3445, 2893]	4180	[5515, 3211]	6221	[7058, 7059]
99	[193, 194]	2140	[3446, 3447]	4181	[5516, 5517]	6222	[7060, 2555]
100	[195, 196]	2141	[3448, 1375]	4182	[5518, 422]	6223	[7061, 5310]
101	[197, 198]	2142	[3158, 2887]	4183	[5367, 3303]	6224	[1829, 6674]
102	[199, 200]	2143	[3449, 307]	4184	[5519, 1050]	6225	[7062, 1903]
103	[201, 202]	2144	[3263, 416]	4185	[5520, 5521]	6226	[7063, 1906]
104	[203, 204]	2145	[3450, 3451]	4186	[5522, 5523]	6227	[586, 1764]
105	[205, 206]	2146	[3452, 3453]	4187	[5524, 5525]	6228	[7064, 4995]
106	[207, 208]	2147	[3454, 3455]	4188	[5526, 3499]	6229	[7065, 2194]
107	[209, 210]	2148	[3456, 2701]	4189	[5527, 1449]	6230	[7066, 163]
108	[211, 212]	2149	[3457, 419]	4190	[5528, 3256]	6231	[7067, 600]
109	[213, 214]	2150	[3458, 1166]	4191	[1124, 5529]	6232	[7068, 6612]
110	[215, 216]	2151	[3459, 3460]	4192	[5530, 1468]	6233	[7069, 4088]
111	[217, 218]	2152	[3461, 3462]	4193	[5531, 5532]	6234	[7070, 1733]
112	[219, 220]	2153	[3463, 1153]	4194	[5533, 1158]	6235	[6643, 2027]
113	[221, 222]	2154	[3453, 1400]	4195	[5534, 2674]	6236	[7071, 6568]

114	[223, 224]	2155	[3464, 933]	4196	[5535, 2904]	6237	[7072, 757]
115	[225, 226]	2156	[3465, 937]	4197	[3572, 5536]	6238	[7073, 4665]
116	[227, 228]	2157	[3109, 3466]	4198	[5537, 983]	6239	[7074, 2548]
117	[229, 230]	2158	[3467, 3468]	4199	[1137, 5538]	6240	[7075, 4410]
118	[231, 232]	2159	[3469, 3470]	4200	[5539, 1349]	6241	[4153, 781]
119	[233, 234]	2160	[3471, 3230]	4201	[5540, 5541]	6242	[7076, 196]
120	[216, 235]	2161	[1084, 3472]	4202	[5542, 5543]	6243	[2127, 5150]
121	[236, 237]	2162	[3473, 22]	4203	[5544, 5545]	6244	[7077, 467]
122	[238, 239]	2163	[3474, 3475]	4204	[5546, 3110]	6245	[7078, 692]
123	[240, 241]	2164	[2743, 986]	4205	[5547, 897]	6246	[7079, 2478]
124	[242, 243]	2165	[3476, 1370]	4206	[5548, 5549]	6247	[4831, 4875]
125	[244, 245]	2166	[1070, 3477]	4207	[3074, 5550]	6248	[7080, 2458]
126	[246, 247]	2167	[1227, 262]	4208	[5551, 3447]	6249	[2225, 4746]
127	[248, 249]	2168	[3478, 3479]	4209	[5552, 5553]	6250	[7081, 588]
128	[250, 251]	2169	[3480, 3481]	4210	[5554, 260]	6251	[7082, 2163]
129	[252, 253]	2170	[3482, 2757]	4211	[5555, 5556]	6252	[7083, 4566]
130	[254, 255]	2171	[3483, 2782]	4212	[875, 5557]	6253	[5133, 4167]
131	[256, 257]	2172	[3048, 3199]	4213	[5558, 431]	6254	[2329, 6948]
132	[258, 259]	2173	[3484, 2766]	4214	[5559, 3188]	6255	[7084, 1810]
133	[260, 261]	2174	[3279, 98]	4215	[5560, 926]	6256	[6752, 6612]
134	[262, 263]	2175	[1492, 3485]	4216	[5561, 5562]	6257	[7085, 7086]
135	[264, 265]	2176	[3191, 2654]	4217	[5563, 5564]	6258	[130, 6573]
136	[266, 267]	2177	[3486, 3287]	4218	[5565, 3233]	6259	[7087, 6451]
137	[268, 269]	2178	[3487, 3488]	4219	[1125, 5363]	6260	[7088, 4014]
138	[270, 271]	2179	[3489, 3361]	4220	[5566, 1527]	6261	[7089, 7090]
139	[272, 273]	2180	[3490, 3427]	4221	[5567, 5368]	6262	[4003, 4329]
140	[274, 275]	2181	[3491, 1236]	4222	[5568, 3406]	6263	[7091, 2255]
141	[276, 277]	2182	[3206, 3329]	4223	[5492, 5569]	6264	[7092, 4174]
142	[278, 88]	2183	[3492, 3493]	4224	[5570, 1316]	6265	[7093, 230]
143	[279, 280]	2184	[1225, 2825]	4225	[5571, 3200]	6266	[7094, 6790]
144	[281, 282]	2185	[1474, 3494]	4226	[1530, 1278]	6267	[7095, 6664]
145	[283, 284]	2186	[247, 3495]	4227	[2717, 3848]	6268	[4416, 1662]
146	[285, 286]	2187	[3496, 3497]	4228	[5572, 5573]	6269	[7096, 5315]
147	[96, 287]	2188	[3498, 2706]	4229	[5574, 5401]	6270	[2124, 1875]
148	[288, 289]	2189	[3499, 3121]	4230	[5575, 5576]	6271	[7097, 724]
149	[290, 291]	2190	[3500, 281]	4231	[5577, 3220]	6272	[5211, 4955]
150	[292, 293]	2191	[1134, 2766]	4232	[3690, 1499]	6273	[826, 2602]
151	[294, 295]	2192	[3501, 3502]	4233	[5578, 3324]	6274	[7098, 4326]
152	[296, 297]	2193	[3503, 266]	4234	[5579, 3183]	6275	[7099, 4574]
153	[298, 299]	2194	[3504, 1428]	4235	[5580, 2788]	6276	[4091, 1649]
154	[300, 301]	2195	[3505, 3506]	4236	[3061, 3685]	6277	[7100, 4567]
155	[302, 303]	2196	[3128, 3299]	4237	[5581, 5582]	6278	[4672, 2007]
156	[74, 304]	2197	[3507, 3508]	4238	[5583, 906]	6279	[2099, 6549]
157	[305, 306]	2198	[3509, 3331]	4239	[91, 3566]	6280	[6975, 4352]

158	[307, 308]	2199	[2848, 3510]	4240	[463, 5395]	6281	[7101, 4701]
159	[309, 300]	2200	[3511, 1198]	4241	[5442, 3340]	6282	[4262, 776]
160	[310, 311]	2201	[3512, 3513]	4242	[5584, 331]	6283	[1732, 4088]
161	[312, 313]	2202	[3514, 3515]	4243	[2899, 3251]	6284	[1669, 2262]
162	[314, 315]	2203	[3516, 3517]	4244	[5585, 3549]	6285	[681, 2018]
163	[316, 317]	2204	[3518, 2906]	4245	[5543, 5586]	6286	[1725, 6833]
164	[318, 319]	2205	[3519, 3520]	4246	[5587, 5588]	6287	[7102, 6948]
165	[320, 321]	2206	[3521, 3522]	4247	[5589, 2681]	6288	[7103, 4767]
166	[284, 322]	2207	[3523, 3524]	4248	[5590, 3022]	6289	[7104, 4828]
167	[323, 324]	2208	[3525, 3423]	4249	[5591, 1458]	6290	[7105, 6858]
168	[325, 271]	2209	[3526, 3527]	4250	[5592, 2975]	6291	[7106, 4049]
169	[326, 327]	2210	[403, 3395]	4251	[5593, 1257]	6292	[5151, 4456]
170	[328, 329]	2211	[3528, 380]	4252	[3683, 5594]	6293	[2528, 4828]
171	[330, 331]	2212	[1414, 3529]	4253	[5595, 3320]	6294	[6464, 4424]
172	[332, 333]	2213	[3530, 2865]	4254	[5596, 3371]	6295	[6667, 4575]
173	[334, 335]	2214	[3531, 3532]	4255	[5597, 5598]	6296	[5182, 1812]
174	[336, 337]	2215	[3533, 3534]	4256	[5599, 3356]	6297	[7107, 4896]
175	[338, 339]	2216	[3535, 942]	4257	[5588, 1031]	6298	[7108, 4509]
176	[340, 341]	2217	[3007, 3058]	4258	[3195, 5600]	6299	[4128, 4571]
177	[342, 343]	2218	[3536, 3003]	4259	[5601, 1468]	6300	[7109, 5000]
178	[344, 345]	2219	[3537, 3538]	4260	[5602, 5603]	6301	[6849, 1888]
179	[346, 347]	2220	[3539, 3540]	4261	[5604, 3691]	6302	[7110, 2435]
180	[348, 250]	2221	[3541, 3542]	4262	[3441, 3727]	6303	[7111, 6928]
181	[349, 350]	2222	[3543, 306]	4263	[5605, 960]	6304	[7112, 2323]
182	[351, 352]	2223	[3544, 3162]	4264	[3744, 5606]	6305	[2556, 1711]
183	[353, 354]	2224	[3182, 3545]	4265	[5607, 3820]	6306	[6802, 5076]
184	[355, 87]	2225	[3546, 3547]	4266	[5608, 5530]	6307	[7113, 6734]
185	[356, 357]	2226	[3024, 3548]	4267	[5609, 2962]	6308	[7114, 1979]
186	[358, 359]	2227	[3549, 246]	4268	[1348, 1306]	6309	[2398, 4286]
187	[360, 361]	2228	[3550, 1518]	4269	[5610, 406]	6310	[4207, 6741]
188	[362, 363]	2229	[3551, 1416]	4270	[5611, 5600]	6311	[7115, 5012]
189	[364, 365]	2230	[3552, 1206]	4271	[5612, 3885]	6312	[6888, 4085]
190	[366, 367]	2231	[3510, 3553]	4272	[5613, 5614]	6313	[2210, 2098]
191	[368, 369]	2232	[3554, 3402]	4273	[5615, 1176]	6314	[7116, 4501]
192	[370, 371]	2233	[3348, 3330]	4274	[3233, 5616]	6315	[4780, 4314]
193	[372, 373]	2234	[3555, 3439]	4275	[2631, 1454]	6316	[7117, 7058]
194	[374, 375]	2235	[3215, 3385]	4276	[5617, 1489]	6317	[1604, 2515]
195	[376, 377]	2236	[3556, 252]	4277	[3444, 963]	6318	[7118, 2576]
196	[378, 379]	2237	[3557, 2732]	4278	[5618, 321]	6319	[4336, 732]
197	[380, 381]	2238	[3558, 3559]	4279	[5619, 924]	6320	[2312, 636]
198	[382, 68]	2239	[3560, 3209]	4280	[936, 5620]	6321	[4440, 7119]
199	[383, 384]	2240	[3561, 3562]	4281	[5621, 5403]	6322	[7120, 6707]
200	[385, 386]	2241	[3563, 1498]	4282	[85, 3592]	6323	[7121, 1793]
201	[387, 388]	2242	[3564, 3243]	4283	[5622, 2662]	6324	[7122, 165]

202	[389, 390]	2243	[3231, 1487]	4284	[2815, 5623]	6325	[7123, 2297]
203	[391, 392]	2244	[2844, 1163]	4285	[5624, 3677]	6326	[7124, 1913]
204	[393, 394]	2245	[3565, 3396]	4286	[5625, 3066]	6327	[7125, 4317]
205	[395, 396]	2246	[3566, 3567]	4287	[5626, 3075]	6328	[7126, 602]
206	[397, 398]	2247	[1210, 3568]	4288	[5627, 355]	6329	[7127, 4052]
207	[399, 400]	2248	[3569, 3570]	4289	[5628, 5629]	6330	[7128, 6590]
208	[72, 109]	2249	[3571, 2785]	4290	[1100, 5630]	6331	[7129, 4900]
209	[401, 402]	2250	[3424, 3572]	4291	[5631, 5632]	6332	[7130, 7131]
210	[359, 403]	2251	[3573, 898]	4292	[2800, 1052]	6333	[7132, 2506]
211	[404, 405]	2252	[448, 3574]	4293	[1339, 1444]	6334	[7133, 4928]
212	[406, 407]	2253	[3575, 3576]	4294	[431, 449]	6335	[7134, 4045]
213	[408, 355]	2254	[3577, 3578]	4295	[5633, 3313]	6336	[2038, 2220]
214	[409, 410]	2255	[3372, 2810]	4296	[5634, 5358]	6337	[7135, 4000]
215	[411, 412]	2256	[3579, 922]	4297	[392, 5635]	6338	[2135, 4550]
216	[413, 414]	2257	[3580, 2698]	4298	[5636, 5637]	6339	[1933, 174]
217	[415, 416]	2258	[3581, 3582]	4299	[5638, 5639]	6340	[7136, 4897]
218	[417, 418]	2259	[3583, 3584]	4300	[1538, 3368]	6341	[7137, 7138]
219	[419, 420]	2260	[3585, 1462]	4301	[5640, 2888]	6342	[4630, 151]
220	[421, 422]	2261	[3586, 3551]	4302	[5641, 5642]	6343	[7139, 4552]
221	[423, 367]	2262	[2787, 3587]	4303	[5643, 394]	6344	[4226, 4071]
222	[424, 425]	2263	[2789, 3588]	4304	[1131, 5644]	6345	[7059, 1929]
223	[426, 427]	2264	[365, 3305]	4305	[3009, 1002]	6346	[6858, 4141]
224	[428, 429]	2265	[1562, 2805]	4306	[5645, 5623]	6347	[7140, 1709]
225	[430, 431]	2266	[3589, 3590]	4307	[3235, 5646]	6348	[7141, 6772]
226	[432, 433]	2267	[2751, 3591]	4308	[5647, 3260]	6349	[2023, 4969]
227	[434, 435]	2268	[3592, 2742]	4309	[5648, 2658]	6350	[4030, 6910]
228	[436, 437]	2269	[384, 3593]	4310	[3396, 5649]	6351	[4382, 1766]
229	[438, 439]	2270	[3594, 3595]	4311	[2922, 5650]	6352	[2030, 7142]
230	[440, 358]	2271	[3596, 3564]	4312	[1323, 244]	6353	[6741, 6756]
231	[441, 442]	2272	[3597, 3598]	4313	[5651, 5652]	6354	[7143, 7144]
232	[443, 444]	2273	[3599, 3129]	4314	[5653, 5654]	6355	[7145, 1919]
233	[445, 446]	2274	[3600, 1055]	4315	[5655, 3512]	6356	[6468, 6721]
234	[447, 448]	2275	[1029, 3601]	4316	[5656, 3246]	6357	[7146, 1910]
235	[449, 450]	2276	[3602, 3603]	4317	[5657, 3196]	6358	[1755, 6607]
236	[451, 452]	2277	[3604, 3605]	4318	[5658, 1090]	6359	[7147, 4409]
237	[453, 28]	2278	[1247, 3474]	4319	[3943, 5659]	6360	[2149, 4082]
238	[454, 455]	2279	[3606, 381]	4320	[5660, 1139]	6361	[156, 512]
239	[456, 76]	2280	[3488, 3312]	4321	[5661, 70]	6362	[7148, 4265]
240	[457, 458]	2281	[3607, 1376]	4322	[291, 2960]	6363	[6573, 2562]
241	[16, 459]	2282	[3608, 456]	4323	[5662, 2881]	6364	[4300, 6471]
242	[460, 461]	2283	[3609, 3349]	4324	[5663, 903]	6365	[7149, 6605]
243	[462, 463]	2284	[3610, 3324]	4325	[2870, 1496]	6366	[2264, 4631]
244	[464, 465]	2285	[2803, 3410]	4326	[5664, 3269]	6367	[7150, 1856]
245	[466, 467]	2286	[3285, 3611]	4327	[1500, 881]	6368	[7151, 2153]

246	[468, 469]	2287	[1094, 3583]	4328	[3769, 1155]	6369	[5097, 5023]
247	[470, 471]	2288	[3612, 3423]	4329	[5665, 5666]	6370	[7152, 2134]
248	[472, 473]	2289	[3613, 3096]	4330	[5667, 1125]	6371	[7153, 553]
249	[474, 475]	2290	[22, 3614]	4331	[5472, 3108]	6372	[7154, 2405]
250	[476, 477]	2291	[3615, 1442]	4332	[2998, 5668]	6373	[7155, 4721]
251	[478, 479]	2292	[3616, 3491]	4333	[968, 3205]	6374	[1791, 2503]
252	[480, 481]	2293	[3617, 1193]	4334	[5669, 3754]	6375	[1881, 4946]
253	[482, 483]	2294	[3502, 3618]	4335	[5670, 3284]	6376	[6597, 5188]
254	[14, 484]	2295	[3619, 2748]	4336	[5671, 5672]	6377	[4968, 6433]
255	[485, 486]	2296	[899, 3620]	4337	[1532, 3951]	6378	[1986, 6589]
256	[487, 488]	2297	[3621, 3622]	4338	[5673, 292]	6379	[7156, 4130]
257	[489, 490]	2298	[1548, 3623]	4339	[5674, 3967]	6380	[7157, 6465]
258	[491, 492]	2299	[3595, 3624]	4340	[5675, 5676]	6381	[4603, 7017]
259	[493, 494]	2300	[3625, 443]	4341	[5677, 1079]	6382	[4677, 4128]
260	[495, 496]	2301	[3626, 3092]	4342	[5678, 63]	6383	[5217, 2204]
261	[497, 498]	2302	[3253, 436]	4343	[5679, 3109]	6384	[7158, 6978]
262	[499, 500]	2303	[3627, 3279]	4344	[5680, 2719]	6385	[4159, 7008]
263	[501, 502]	2304	[3628, 3629]	4345	[5681, 996]	6386	[7159, 4741]
264	[503, 504]	2305	[1091, 1018]	4346	[5454, 5682]	6387	[7160, 4634]
265	[505, 506]	2306	[1196, 3630]	4347	[5683, 3557]	6388	[5174, 6603]
266	[507, 508]	2307	[3631, 3563]	4348	[2728, 255]	6389	[5001, 4798]
267	[509, 510]	2308	[3632, 1163]	4349	[1436, 2734]	6390	[7161, 4418]
268	[511, 512]	2309	[3633, 1457]	4350	[5684, 984]	6391	[4364, 2138]
269	[513, 514]	2310	[2966, 3634]	4351	[5685, 1040]	6392	[7162, 1992]
270	[515, 516]	2311	[2774, 3635]	4352	[5686, 3724]	6393	[7163, 4630]
271	[517, 518]	2312	[980, 3636]	4353	[5687, 1323]	6394	[7164, 4070]
272	[519, 520]	2313	[3637, 1460]	4354	[3809, 1188]	6395	[6901, 1759]
273	[521, 522]	2314	[3638, 3639]	4355	[5688, 2861]	6396	[7165, 855]
274	[523, 524]	2315	[3640, 1372]	4356	[5689, 5690]	6397	[7166, 6608]
275	[525, 526]	2316	[3641, 3488]	4357	[5691, 1413]	6398	[7167, 4298]
276	[527, 528]	2317	[3642, 3643]	4358	[5692, 3440]	6399	[4388, 4296]
277	[529, 530]	2318	[3644, 3234]	4359	[5693, 3167]	6400	[7168, 4034]
278	[531, 174]	2319	[3645, 1053]	4360	[5694, 2679]	6401	[7169, 1703]
279	[532, 533]	2320	[3646, 3647]	4361	[5695, 3307]	6402	[7170, 6975]
280	[534, 535]	2321	[924, 3171]	4362	[2975, 2820]	6403	[483, 6482]
281	[536, 537]	2322	[414, 2780]	4363	[5696, 5562]	6404	[7171, 4724]
282	[538, 539]	2323	[3648, 3649]	4364	[5697, 5698]	6405	[7172, 7124]
283	[540, 541]	2324	[3650, 3651]	4365	[5699, 2897]	6406	[7173, 7174]
284	[542, 543]	2325	[3652, 2849]	4366	[1234, 3767]	6407	[7175, 6863]
285	[544, 45]	2326	[3653, 3654]	4367	[5700, 5668]	6408	[7176, 7158]
286	[545, 546]	2327	[3655, 3656]	4368	[5701, 3643]	6409	[2087, 6798]
287	[186, 547]	2328	[3657, 3305]	4369	[5702, 3357]	6410	[6769, 6513]
288	[548, 549]	2329	[390, 3598]	4370	[5703, 1366]	6411	[4726, 1990]
289	[550, 551]	2330	[3658, 982]	4371	[3117, 1254]	6412	[7177, 1652]

290	[552, 553]	2331	[3659, 1105]	4372	[398, 377]	6413	[7178, 5015]
291	[554, 555]	2332	[3660, 3385]	4373	[5704, 447]	6414	[599, 2015]
292	[556, 557]	2333	[3661, 3025]	4374	[5705, 1189]	6415	[7179, 2220]
293	[558, 559]	2334	[1358, 1053]	4375	[5706, 883]	6416	[7131, 2260]
294	[560, 561]	2335	[3662, 3663]	4376	[5646, 364]	6417	[7180, 4076]
295	[562, 563]	2336	[3664, 2699]	4377	[5707, 5708]	6418	[7181, 164]
296	[564, 565]	2337	[2699, 3665]	4378	[5709, 1044]	6419	[7182, 6700]
297	[566, 567]	2338	[3666, 3237]	4379	[287, 307]	6420	[4290, 466]
298	[568, 569]	2339	[3667, 3214]	4380	[5710, 1187]	6421	[4099, 4681]
299	[570, 54]	2340	[3668, 3669]	4381	[3472, 99]	6422	[1844, 5243]
300	[571, 572]	2341	[3670, 1253]	4382	[1460, 5549]	6423	[4125, 7183]
301	[573, 574]	2342	[3671, 1514]	4383	[5711, 3521]	6424	[7184, 1490]
302	[575, 576]	2343	[3672, 958]	4384	[1405, 5712]	6425	[7185, 3382]
303	[577, 578]	2344	[3673, 3614]	4385	[2908, 5713]	6426	[7186, 934]
304	[145, 38]	2345	[3674, 3675]	4386	[5714, 5715]	6427	[7187, 1131]
305	[579, 580]	2346	[3676, 3677]	4387	[5716, 3012]	6428	[3332, 1144]
306	[581, 582]	2347	[420, 3050]	4388	[3227, 392]	6429	[7188, 5922]
307	[583, 584]	2348	[3678, 3595]	4389	[2767, 3307]	6430	[20, 3537]
308	[585, 586]	2349	[1212, 3679]	4390	[2663, 2845]	6431	[7189, 1143]
309	[587, 573]	2350	[3680, 3681]	4391	[5717, 5718]	6432	[7190, 426]
310	[588, 589]	2351	[3493, 1315]	4392	[5719, 3559]	6433	[7191, 5646]
311	[590, 591]	2352	[1463, 2863]	4393	[5720, 3630]	6434	[271, 5698]
312	[592, 593]	2353	[3682, 3683]	4394	[3468, 3405]	6435	[7192, 2673]
313	[594, 595]	2354	[3684, 3685]	4395	[3072, 1250]	6436	[7193, 1367]
314	[596, 597]	2355	[2927, 3652]	4396	[5721, 3417]	6437	[3039, 3678]
315	[598, 599]	2356	[3686, 3687]	4397	[18, 5722]	6438	[2781, 3656]
316	[600, 601]	2357	[1264, 2875]	4398	[5723, 1512]	6439	[5836, 3371]
317	[602, 603]	2358	[3688, 2798]	4399	[5724, 885]	6440	[7194, 1184]
318	[604, 605]	2359	[3689, 3690]	4400	[5725, 5726]	6441	[3240, 7195]
319	[606, 607]	2360	[3691, 3692]	4401	[3370, 5727]	6442	[7196, 3114]
320	[608, 609]	2361	[3693, 3694]	4402	[3021, 3413]	6443	[7197, 24]
321	[610, 611]	2362	[3695, 1248]	4403	[3059, 5692]	6444	[2749, 3226]
322	[612, 613]	2363	[3374, 3459]	4404	[3527, 3486]	6445	[3702, 5654]
323	[614, 615]	2364	[1278, 1353]	4405	[388, 3487]	6446	[5872, 5865]
324	[616, 490]	2365	[3696, 3697]	4406	[5728, 1339]	6447	[7198, 1414]
325	[617, 618]	2366	[3282, 3698]	4407	[5729, 413]	6448	[7199, 959]
326	[619, 620]	2367	[3699, 3232]	4408	[5730, 3880]	6449	[7200, 7195]
327	[621, 622]	2368	[3364, 3700]	4409	[5731, 5732]	6450	[5385, 5530]
328	[623, 149]	2369	[3701, 3702]	4410	[3301, 1397]	6451	[7201, 3680]
329	[624, 625]	2370	[3247, 2647]	4411	[5733, 2686]	6452	[7202, 3768]
330	[626, 236]	2371	[3703, 2649]	4412	[5734, 2876]	6453	[5765, 3249]
331	[627, 238]	2372	[3704, 3705]	4413	[3152, 3378]	6454	[7203, 3381]
332	[628, 161]	2373	[3706, 3621]	4414	[1282, 1261]	6455	[7204, 3839]
333	[629, 630]	2374	[30, 1448]	4415	[3167, 5515]	6456	[7205, 5702]

334	[631, 632]	2375	[3707, 3708]	4416	[5639, 2777]	6457	[7206, 3332]
335	[633, 634]	2376	[3709, 1005]	4417	[5735, 5736]	6458	[7207, 6331]
336	[635, 636]	2377	[3710, 3711]	4418	[5737, 902]	6459	[2795, 3113]
337	[637, 638]	2378	[2670, 3712]	4419	[3362, 5738]	6460	[7208, 2742]
338	[639, 640]	2379	[3713, 245]	4420	[5739, 1351]	6461	[7195, 7209]
339	[641, 642]	2380	[3714, 3715]	4421	[5740, 3266]	6462	[7210, 6325]
340	[643, 644]	2381	[3716, 3717]	4422	[3402, 102]	6463	[3843, 2685]
341	[645, 646]	2382	[2683, 3718]	4423	[5741, 3557]	6464	[7211, 5459]
342	[647, 648]	2383	[1462, 3078]	4424	[5742, 2882]	6465	[7212, 1162]
343	[649, 650]	2384	[3719, 3720]	4425	[5743, 5590]	6466	[7213, 2789]
344	[651, 652]	2385	[2776, 2837]	4426	[446, 3755]	6467	[7214, 3636]
345	[653, 654]	2386	[1009, 2790]	4427	[5744, 3366]	6468	[7215, 3446]
346	[655, 656]	2387	[3721, 3706]	4428	[5745, 5692]	6469	[7216, 1378]
347	[657, 615]	2388	[3722, 3723]	4429	[5746, 5747]	6470	[7217, 420]
348	[658, 478]	2389	[3724, 3725]	4430	[5748, 3532]	6471	[7218, 3006]
349	[659, 660]	2390	[3336, 2864]	4431	[5749, 3670]	6472	[2888, 3619]
350	[661, 662]	2391	[3726, 3287]	4432	[2830, 1545]	6473	[7219, 3759]
351	[663, 664]	2392	[3727, 3542]	4433	[3893, 5750]	6474	[7220, 2802]
352	[665, 666]	2393	[3728, 3562]	4434	[5751, 5396]	6475	[7221, 3021]
353	[667, 668]	2394	[3729, 3730]	4435	[1558, 3569]	6476	[3220, 2853]
354	[669, 670]	2395	[3731, 96]	4436	[5752, 1145]	6477	[7222, 972]
355	[671, 672]	2396	[3495, 2689]	4437	[5753, 3946]	6478	[5541, 3920]
356	[673, 674]	2397	[3732, 3733]	4438	[5754, 1169]	6479	[7223, 1101]
357	[675, 199]	2398	[3665, 3064]	4439	[3377, 343]	6480	[7224, 3838]
358	[676, 677]	2399	[3734, 3735]	4440	[5755, 3725]	6481	[3869, 1566]
359	[678, 679]	2400	[3736, 3388]	4441	[1506, 2914]	6482	[7225, 1289]
360	[680, 681]	2401	[3547, 3737]	4442	[5756, 2914]	6483	[1293, 81]
361	[682, 683]	2402	[3295, 3738]	4443	[1106, 3006]	6484	[7226, 3553]
362	[684, 685]	2403	[3739, 3041]	4444	[5757, 5594]	6485	[7227, 1004]
363	[686, 687]	2404	[3740, 3134]	4445	[5758, 3433]	6486	[7228, 3315]
364	[688, 689]	2405	[3741, 1194]	4446	[5759, 5760]	6487	[3209, 1206]
365	[690, 691]	2406	[3742, 3652]	4447	[5761, 5639]	6488	[7229, 3219]
366	[692, 693]	2407	[1031, 3653]	4448	[1346, 5693]	6489	[7230, 1171]
367	[694, 695]	2408	[3743, 3744]	4449	[5523, 5762]	6490	[396, 888]
368	[696, 697]	2409	[3745, 3746]	4450	[5763, 1385]	6491	[7231, 5749]
369	[698, 699]	2410	[3747, 1280]	4451	[5764, 5765]	6492	[1276, 3246]
370	[700, 701]	2411	[3748, 3391]	4452	[5766, 3082]	6493	[7232, 5393]
371	[492, 702]	2412	[3749, 3750]	4453	[3614, 1395]	6494	[444, 3909]
372	[703, 704]	2413	[3751, 3752]	4454	[5767, 5768]	6495	[5361, 5672]
373	[705, 706]	2414	[3753, 3754]	4455	[5769, 953]	6496	[7233, 411]
374	[707, 708]	2415	[3755, 2918]	4456	[3712, 3575]	6497	[1203, 2792]
375	[709, 710]	2416	[427, 3361]	4457	[5750, 1537]	6498	[7234, 929]
376	[711, 712]	2417	[3756, 3019]	4458	[3455, 1055]	6499	[7235, 3869]
377	[713, 238]	2418	[3757, 3758]	4459	[1521, 1481]	6500	[7236, 5973]

378	[714, 715]	2419	[3759, 3760]	4460	[5770, 1528]	6501	[7237, 3670]
379	[716, 703]	2420	[3761, 2762]	4461	[5771, 5772]	6502	[7238, 3952]
380	[717, 718]	2421	[3762, 3468]	4462	[5773, 2697]	6503	[3382, 7239]
381	[580, 719]	2422	[3763, 2935]	4463	[5774, 5775]	6504	[987, 5453]
382	[720, 721]	2423	[3764, 1333]	4464	[5776, 1128]	6505	[1149, 2727]
383	[722, 723]	2424	[3765, 3400]	4465	[5777, 344]	6506	[6163, 2729]
384	[724, 725]	2425	[3750, 3766]	4466	[5778, 3312]	6507	[5460, 2953]
385	[477, 726]	2426	[3767, 3153]	4467	[5779, 977]	6508	[907, 5459]
386	[727, 728]	2427	[3768, 1556]	4468	[5780, 1070]	6509	[5682, 7203]
387	[729, 730]	2428	[3032, 3769]	4469	[1350, 1264]	6510	[7240, 2911]
388	[731, 46]	2429	[3770, 3771]	4470	[5781, 3123]	6511	[1133, 3642]
389	[732, 733]	2430	[2706, 3502]	4471	[5668, 5782]	6512	[7241, 969]
390	[734, 735]	2431	[3772, 1185]	4472	[5783, 3353]	6513	[7242, 1144]
391	[736, 737]	2432	[3338, 2872]	4473	[5784, 3710]	6514	[7243, 3453]
392	[738, 739]	2433	[3773, 2992]	4474	[5785, 5786]	6515	[6110, 1012]
393	[740, 741]	2434	[3774, 458]	4475	[5787, 1545]	6516	[7244, 399]
394	[742, 566]	2435	[3775, 3106]	4476	[3643, 3048]	6517	[7245, 1467]
395	[743, 744]	2436	[3776, 3062]	4477	[5788, 120]	6518	[7246, 5962]
396	[745, 746]	2437	[3777, 1124]	4478	[3249, 5789]	6519	[7247, 3784]
397	[747, 56]	2438	[2861, 344]	4479	[5790, 3132]	6520	[7248, 3827]
398	[748, 749]	2439	[3778, 1075]	4480	[28, 3978]	6521	[7249, 3002]
399	[750, 751]	2440	[3779, 3284]	4481	[5736, 3032]	6522	[7250, 3932]
400	[752, 753]	2441	[3780, 3781]	4482	[1074, 451]	6523	[6014, 7251]
401	[142, 754]	2442	[3782, 2884]	4483	[5791, 5422]	6524	[3297, 1550]
402	[755, 756]	2443	[3783, 3784]	4484	[5786, 1201]	6525	[7252, 3925]
403	[644, 757]	2444	[1523, 3785]	4485	[5792, 2756]	6526	[7253, 455]
404	[758, 759]	2445	[3786, 3787]	4486	[3969, 453]	6527	[5408, 1083]
405	[760, 761]	2446	[3578, 3408]	4487	[5793, 2751]	6528	[7254, 5725]
406	[762, 763]	2447	[3788, 3537]	4488	[2970, 3015]	6529	[7255, 1091]
407	[764, 765]	2448	[3143, 3789]	4489	[76, 990]	6530	[7256, 3584]
408	[766, 767]	2449	[3790, 1400]	4490	[5642, 5794]	6531	[3237, 3269]
409	[768, 769]	2450	[2951, 1149]	4491	[3760, 5516]	6532	[5805, 3686]
410	[770, 771]	2451	[2730, 2738]	4492	[5795, 409]	6533	[7257, 3064]
411	[772, 773]	2452	[3791, 3792]	4493	[5796, 5797]	6534	[7258, 878]
412	[774, 775]	2453	[3793, 3794]	4494	[3950, 2662]	6535	[7259, 84]
413	[776, 777]	2454	[3795, 1138]	4495	[5798, 1338]	6536	[2883, 3401]
414	[778, 779]	2455	[3796, 3797]	4496	[5635, 2879]	6537	[7260, 1159]
415	[780, 781]	2456	[311, 3702]	4497	[5799, 298]	6538	[7261, 2772]
416	[782, 783]	2457	[3798, 3799]	4498	[2801, 1398]	6539	[7262, 2803]
417	[784, 785]	2458	[3800, 3801]	4499	[5800, 5598]	6540	[7263, 1315]
418	[786, 594]	2459	[3802, 3531]	4500	[1110, 1151]	6541	[7264, 2705]
419	[787, 788]	2460	[3398, 1558]	4501	[5801, 123]	6542	[3063, 3268]
420	[789, 790]	2461	[3803, 955]	4502	[5802, 2769]	6543	[7265, 3601]
421	[791, 792]	2462	[1151, 3804]	4503	[5803, 3368]	6544	[394, 296]

422	[793, 794]	2463	[3620, 1010]	4504	[5804, 5805]	6545	[3180, 3291]
423	[795, 796]	2464	[3522, 3805]	4505	[106, 1099]	6546	[7266, 5433]
424	[797, 798]	2465	[3806, 3663]	4506	[5806, 3766]	6547	[7267, 7268]
425	[799, 800]	2466	[3807, 3075]	4507	[3359, 1213]	6548	[7269, 6203]
426	[801, 802]	2467	[3808, 3809]	4508	[5807, 5808]	6549	[7270, 3133]
427	[803, 804]	2468	[3810, 256]	4509	[5809, 3817]	6550	[7271, 1483]
428	[805, 231]	2469	[3811, 3545]	4510	[5810, 2793]	6551	[7272, 927]
429	[806, 807]	2470	[3812, 1102]	4511	[5811, 3691]	6552	[3390, 925]
430	[808, 576]	2471	[3813, 3814]	4512	[5812, 5526]	6553	[1246, 3133]
431	[809, 810]	2472	[3815, 3414]	4513	[5813, 871]	6554	[7273, 1272]
432	[811, 755]	2473	[3816, 3817]	4514	[5814, 1325]	6555	[7274, 2670]
433	[812, 813]	2474	[3818, 3819]	4515	[3548, 3929]	6556	[7275, 6281]
434	[814, 472]	2475	[1287, 1042]	4516	[1516, 2928]	6557	[7276, 1019]
435	[815, 816]	2476	[2778, 3820]	4517	[5815, 981]	6558	[7277, 3121]
436	[817, 818]	2477	[3821, 1433]	4518	[5816, 448]	6559	[7278, 3548]
437	[819, 820]	2478	[3822, 3823]	4519	[5817, 2885]	6560	[3746, 5349]
438	[821, 822]	2479	[3576, 2682]	4520	[5818, 5629]	6561	[3834, 3020]
439	[823, 824]	2480	[3824, 910]	4521	[5819, 3970]	6562	[7279, 3706]
440	[825, 826]	2481	[3825, 1259]	4522	[5820, 1293]	6563	[7280, 3591]
441	[827, 828]	2482	[2696, 3377]	4523	[5821, 3745]	6564	[7281, 3460]
442	[829, 830]	2483	[3826, 3710]	4524	[3255, 3186]	6565	[5378, 1361]
443	[831, 832]	2484	[3827, 3828]	4525	[1344, 5822]	6566	[3911, 973]
444	[833, 834]	2485	[3829, 1441]	4526	[5823, 5644]	6567	[7282, 7283]
445	[835, 836]	2486	[1440, 3830]	4527	[3679, 5824]	6568	[7284, 6087]
446	[837, 838]	2487	[3831, 390]	4528	[5825, 3257]	6569	[7285, 1227]
447	[839, 840]	2488	[3832, 403]	4529	[5826, 3941]	6570	[7286, 6121]
448	[50, 841]	2489	[3833, 3834]	4530	[3451, 5739]	6571	[6323, 1310]
449	[842, 843]	2490	[3835, 3720]	4531	[5827, 5526]	6572	[7287, 909]
450	[810, 844]	2491	[3836, 19]	4532	[3938, 5476]	6573	[7288, 5706]
451	[845, 846]	2492	[1033, 1259]	4533	[5828, 3807]	6574	[7289, 410]
452	[847, 848]	2493	[3837, 3259]	4534	[5829, 1000]	6575	[1382, 1196]
453	[849, 850]	2494	[83, 3838]	4535	[5556, 5830]	6576	[3466, 2643]
454	[851, 852]	2495	[3839, 286]	4536	[5831, 3821]	6577	[3367, 2913]
455	[853, 854]	2496	[3460, 3840]	4537	[297, 5499]	6578	[6260, 5928]
456	[855, 856]	2497	[3841, 3060]	4538	[5529, 5799]	6579	[7290, 1104]
457	[857, 858]	2498	[3842, 3843]	4539	[5832, 5457]	6580	[6073, 3173]
458	[859, 860]	2499	[459, 3844]	4540	[5833, 2940]	6581	[7291, 287]
459	[32, 575]	2500	[3845, 1344]	4541	[5834, 5835]	6582	[3656, 6073]
460	[861, 862]	2501	[3846, 3847]	4542	[3584, 5836]	6583	[2818, 1418]
461	[863, 864]	2502	[3848, 3849]	4543	[5837, 1291]	6584	[7292, 5385]
462	[865, 866]	2503	[3850, 3533]	4544	[5838, 5839]	6585	[7293, 3122]
463	[807, 867]	2504	[3355, 3851]	4545	[911, 3945]	6586	[3437, 454]
464	[868, 869]	2505	[3852, 3774]	4546	[5840, 5638]	6587	[7294, 1116]
465	[870, 871]	2506	[3853, 3854]	4547	[3754, 5841]	6588	[2982, 3823]

466	[872, 873]	2507	[3855, 1142]	4548	[5586, 5749]	6589	[7295, 5495]
467	[874, 875]	2508	[3856, 3857]	4549	[5794, 5842]	6590	[7296, 971]
468	[876, 877]	2509	[3858, 3859]	4550	[5843, 3816]	6591	[3015, 5696]
469	[108, 878]	2510	[3860, 3105]	4551	[3439, 869]	6592	[7297, 5789]
470	[879, 880]	2511	[3861, 1186]	4552	[5844, 1350]	6593	[2755, 2884]
471	[881, 882]	2512	[3862, 433]	4553	[5845, 3806]	6594	[5762, 3493]
472	[883, 884]	2513	[3863, 3494]	4554	[5846, 2833]	6595	[7298, 3642]
473	[885, 886]	2514	[3864, 3865]	4555	[5847, 1420]	6596	[7299, 6029]
474	[887, 888]	2515	[3866, 3867]	4556	[3622, 5848]	6597	[7300, 6347]
475	[889, 890]	2516	[1314, 3868]	4557	[5849, 77]	6598	[7301, 7249]
476	[275, 891]	2517	[2688, 3869]	4558	[5850, 2721]	6599	[7302, 6147]
477	[269, 892]	2518	[3781, 408]	4559	[1503, 5558]	6600	[7303, 3230]
478	[893, 894]	2519	[361, 3870]	4560	[5851, 978]	6601	[2796, 1479]
479	[895, 896]	2520	[3871, 1493]	4561	[5852, 246]	6602	[7304, 3587]
480	[897, 16]	2521	[1564, 1074]	4562	[1408, 5408]	6603	[7305, 5603]
481	[898, 899]	2522	[3872, 3065]	4563	[5853, 1174]	6604	[7306, 1136]
482	[900, 901]	2523	[3873, 3874]	4564	[2757, 5854]	6605	[7307, 3097]
483	[902, 903]	2524	[3875, 3389]	4565	[5855, 3260]	6606	[7308, 2692]
484	[904, 905]	2525	[3876, 2777]	4566	[5856, 2720]	6607	[7309, 3874]
485	[906, 907]	2526	[3877, 2736]	4567	[5857, 5858]	6608	[7310, 1011]
486	[908, 909]	2527	[347, 3878]	4568	[5859, 378]	6609	[3344, 2848]
487	[910, 911]	2528	[3879, 3880]	4569	[5860, 414]	6610	[7311, 1026]
488	[912, 913]	2529	[3567, 1007]	4570	[5644, 2910]	6611	[7312, 3538]
489	[914, 30]	2530	[3881, 3620]	4571	[5861, 3898]	6612	[7313, 5573]
490	[915, 916]	2531	[3882, 3883]	4572	[5862, 5863]	6613	[7314, 3968]
491	[917, 918]	2532	[3884, 2977]	4573	[1171, 1077]	6614	[5403, 6132]
492	[371, 919]	2533	[3885, 3886]	4574	[3477, 5624]	6615	[5863, 3779]
493	[920, 383]	2534	[3887, 1517]	4575	[5864, 2637]	6616	[7315, 339]
494	[921, 922]	2535	[1199, 3800]	4576	[5865, 5866]	6617	[7316, 3801]
495	[923, 924]	2536	[3888, 3735]	4577	[5867, 5868]	6618	[3568, 7317]
496	[925, 926]	2537	[3889, 3136]	4578	[5869, 5451]	6619	[2759, 1332]
497	[927, 928]	2538	[3890, 3891]	4579	[5870, 3333]	6620	[7318, 1419]
498	[929, 930]	2539	[3892, 1361]	4580	[5871, 5872]	6621	[7319, 2952]
499	[931, 932]	2540	[3844, 3893]	4581	[5873, 5621]	6622	[1355, 6202]
500	[933, 934]	2541	[3894, 3895]	4582	[5874, 2732]	6623	[7320, 7321]
501	[935, 936]	2542	[3896, 3306]	4583	[5875, 2955]	6624	[5726, 6057]
502	[937, 938]	2543	[3897, 3678]	4584	[5412, 5876]	6625	[7322, 3960]
503	[939, 940]	2544	[3898, 1360]	4585	[5877, 5878]	6626	[3442, 327]
504	[941, 942]	2545	[3899, 1501]	4586	[339, 5879]	6627	[2655, 1387]
505	[943, 944]	2546	[3053, 1170]	4587	[5880, 429]	6628	[5876, 5855]
506	[945, 946]	2547	[3900, 3901]	4588	[5881, 250]	6629	[7323, 5458]
507	[947, 948]	2548	[3902, 3903]	4589	[5882, 2689]	6630	[7324, 1018]
508	[949, 950]	2549	[3904, 3905]	4590	[5883, 1032]	6631	[942, 1009]
509	[951, 874]	2550	[3687, 3906]	4591	[5884, 3687]	6632	[5485, 6323]

510	[952, 953]	2551	[2915, 1029]	4592	[5885, 1003]	6633	[7325, 2668]
511	[954, 955]	2552	[3574, 3907]	4593	[5886, 1388]	6634	[1241, 1057]
512	[956, 957]	2553	[3908, 3271]	4594	[986, 5887]	6635	[7326, 2970]
513	[958, 959]	2554	[3909, 3098]	4595	[5888, 1014]	6636	[2938, 1385]
514	[245, 960]	2555	[3910, 3911]	4596	[5889, 3323]	6637	[5562, 330]
515	[961, 962]	2556	[2741, 3912]	4597	[5890, 3425]	6638	[3553, 6137]
516	[963, 964]	2557	[3913, 1519]	4598	[5891, 5878]	6639	[7327, 6248]
517	[965, 966]	2558	[3914, 3915]	4599	[251, 385]	6640	[2641, 3799]
518	[967, 968]	2559	[3916, 1547]	4600	[3197, 5892]	6641	[1306, 5867]
519	[70, 969]	2560	[3481, 3917]	4601	[5893, 1213]	6642	[5722, 123]
520	[970, 270]	2561	[3918, 2857]	4602	[433, 1329]	6643	[7328, 2950]
521	[971, 972]	2562	[3919, 3920]	4603	[5894, 260]	6644	[7329, 3840]
522	[973, 974]	2563	[3921, 3030]	4604	[3804, 3903]	6645	[7330, 3879]
523	[975, 976]	2564	[1444, 3094]	4605	[5824, 3430]	6646	[7331, 264]
524	[977, 978]	2565	[3114, 1212]	4606	[249, 418]	6647	[3025, 5346]
525	[979, 980]	2566	[3922, 3224]	4607	[5512, 3236]	6648	[7332, 5441]
526	[981, 982]	2567	[3923, 967]	4608	[3720, 3943]	6649	[7333, 374]
527	[983, 984]	2568	[1102, 3924]	4609	[104, 970]	6650	[3186, 5918]
528	[985, 986]	2569	[3925, 1314]	4610	[5895, 3059]	6651	[7334, 2655]
529	[277, 987]	2570	[3926, 3781]	4611	[3694, 2967]	6652	[2968, 5715]
530	[988, 989]	2571	[3927, 1217]	4612	[5896, 3960]	6653	[5573, 7335]
531	[990, 338]	2572	[2907, 3928]	4613	[5897, 1320]	6654	[7336, 373]
532	[991, 992]	2573	[3929, 3806]	4614	[5898, 886]	6655	[7337, 5536]
533	[993, 994]	2574	[3930, 893]	4615	[5899, 3474]	6656	[7338, 1281]
534	[995, 920]	2575	[3931, 3291]	4616	[3598, 3315]	6657	[3089, 3683]
535	[996, 997]	2576	[3932, 3933]	4617	[5900, 3411]	6658	[7339, 870]
536	[998, 999]	2577	[3934, 3935]	4618	[5901, 2770]	6659	[3591, 5707]
537	[1000, 1001]	2578	[3936, 3459]	4619	[3814, 1123]	6660	[7340, 1166]
538	[1002, 1003]	2579	[3937, 1424]	4620	[24, 447]	6661	[7341, 3155]
539	[1004, 1005]	2580	[363, 3938]	4621	[5902, 5903]	6662	[5463, 7342]
540	[1006, 1007]	2581	[3939, 3940]	4622	[5904, 5355]	6663	[7343, 2895]
541	[1008, 1009]	2582	[3349, 3813]	4623	[1251, 3856]	6664	[7344, 2735]
542	[1010, 1011]	2583	[3941, 1509]	4624	[5905, 3723]	6665	[7345, 3022]
543	[1012, 1013]	2584	[3942, 3943]	4625	[3030, 5840]	6666	[7346, 82]
544	[1014, 1015]	2585	[3944, 3945]	4626	[5906, 5876]	6667	[7347, 5865]
545	[1016, 1017]	2586	[3946, 3947]	4627	[5907, 2651]	6668	[7348, 2738]
546	[1018, 948]	2587	[3948, 3063]	4628	[5908, 3907]	6669	[7349, 2814]
547	[357, 1019]	2588	[3949, 3325]	4629	[5614, 5909]	6670	[1153, 3158]
548	[1020, 1021]	2589	[2910, 3950]	4630	[2892, 94]	6671	[3758, 319]
549	[1022, 1023]	2590	[3951, 3952]	4631	[5910, 5911]	6672	[3224, 7283]
550	[1024, 1025]	2591	[3953, 3954]	4632	[3193, 5619]	6673	[7350, 1130]
551	[1026, 1027]	2592	[3955, 3483]	4633	[3408, 3719]	6674	[7351, 3191]
552	[1028, 1029]	2593	[3954, 3036]	4634	[5912, 5737]	6675	[7352, 5739]
553	[1030, 1031]	2594	[3956, 251]	4635	[5913, 3345]	6676	[7353, 3056]

554	[1032, 1033]	2595	[3957, 296]	4636	[2638, 3536]	6677	[7354, 3831]
555	[1034, 1035]	2596	[3958, 316]	4637	[5654, 5373]	6678	[386, 3462]
556	[1036, 1037]	2597	[3959, 323]	4638	[5914, 3933]	6679	[7355, 1042]
557	[1038, 1039]	2598	[3960, 1402]	4639	[5915, 3438]	6680	[3799, 7321]
558	[1040, 1041]	2599	[3961, 3921]	4640	[5916, 3023]	6681	[7356, 1167]
559	[1042, 1043]	2600	[3601, 411]	4641	[5606, 5574]	6682	[982, 3736]
560	[1044, 1045]	2601	[3962, 2856]	4642	[5917, 5918]	6683	[7357, 3098]
561	[1046, 1047]	2602	[3963, 3953]	4643	[5919, 2961]	6684	[7239, 3429]
562	[1048, 1049]	2603	[1505, 3964]	4644	[5920, 5373]	6685	[7358, 2663]
563	[1050, 69]	2604	[3965, 1048]	4645	[2961, 2926]	6686	[1167, 3082]
564	[1051, 1052]	2605	[3715, 3556]	4646	[5921, 2851]	6687	[3752, 5690]
565	[1053, 1054]	2606	[3966, 3967]	4647	[896, 5922]	6688	[3337, 1209]
566	[1055, 1056]	2607	[1490, 905]	4648	[3346, 874]	6689	[7359, 335]
567	[1057, 378]	2608	[3968, 3969]	4649	[5923, 3134]	6690	[2840, 3174]
568	[1058, 1059]	2609	[450, 3970]	4650	[5598, 5807]	6691	[7360, 5738]
569	[1060, 1061]	2610	[3971, 3136]	4651	[5924, 2887]	6692	[1312, 1036]
570	[1062, 1063]	2611	[3972, 2734]	4652	[5925, 370]	6693	[5538, 6390]
571	[1064, 1065]	2612	[3973, 1205]	4653	[5410, 3333]	6694	[7361, 3089]
572	[112, 1066]	2613	[3974, 2664]	4654	[5926, 5873]	6695	[5557, 3752]
573	[1067, 1068]	2614	[3975, 1387]	4655	[3154, 3415]	6696	[6107, 3331]
574	[379, 1069]	2615	[3976, 3969]	4656	[3005, 5519]	6697	[5708, 3888]
575	[64, 1070]	2616	[3506, 3183]	4657	[5927, 5928]	6698	[7362, 3694]
576	[1071, 1072]	2617	[3977, 1152]	4658	[5929, 1134]	6699	[2894, 5872]
577	[1073, 1074]	2618	[317, 1256]	4659	[5930, 5468]	6700	[7363, 5621]
578	[1075, 1076]	2619	[3978, 19]	4660	[5931, 1112]	6701	[2726, 3889]
579	[1077, 1078]	2620	[3979, 21]	4661	[1096, 21]	6702	[1308, 5702]
580	[1079, 1080]	2621	[3980, 2806]	4662	[5932, 2727]	6703	[7364, 3440]
581	[1081, 1082]	2622	[3981, 3982]	4663	[1177, 5933]	6704	[3316, 3966]
582	[1083, 1084]	2623	[3733, 3983]	4664	[3675, 2666]	6705	[7365, 3091]
583	[1085, 1086]	2624	[3984, 3452]	4665	[5934, 3828]	6706	[7366, 2696]
584	[1087, 399]	2625	[3985, 3369]	4666	[5935, 2755]	6707	[7367, 1366]
585	[1088, 1089]	2626	[3986, 2932]	4667	[1332, 3756]	6708	[354, 3399]
586	[1090, 1091]	2627	[1295, 1507]	4668	[5381, 3010]	6709	[5789, 5358]
587	[1092, 379]	2628	[3624, 3564]	4669	[5936, 2812]	6710	[1116, 358]
588	[1093, 1094]	2629	[1054, 3987]	4670	[5937, 5938]	6711	[7368, 5606]
589	[1095, 1096]	2630	[699, 2474]	4671	[5939, 79]	6712	[3384, 5614]
590	[1097, 1098]	2631	[2263, 3988]	4672	[3055, 3278]	6713	[3924, 3427]
591	[1099, 1100]	2632	[3989, 3990]	4673	[5940, 3357]	6714	[7369, 2701]
592	[1101, 1102]	2633	[3991, 2321]	4674	[5941, 883]	6715	[7370, 7209]
593	[1103, 1104]	2634	[3992, 2286]	4675	[1108, 284]	6716	[7371, 3623]
594	[1105, 1106]	2635	[3993, 3994]	4676	[3700, 5417]	6717	[2994, 2676]
595	[1107, 1108]	2636	[3995, 3996]	4677	[5942, 427]	6718	[7372, 124]
596	[1109, 1110]	2637	[3997, 814]	4678	[3105, 352]	6719	[5943, 5545]
597	[1111, 1112]	2638	[3998, 3999]	4679	[3532, 5943]	6720	[7373, 3135]

598	[1113, 1114]	2639	[4000, 2202]	4680	[5944, 2908]	6721	[7374, 5484]
599	[1115, 1116]	2640	[4001, 4002]	4681	[5945, 412]	6722	[1449, 5466]
600	[1117, 1118]	2641	[2444, 4003]	4682	[5946, 5909]	6723	[3883, 3985]
601	[1119, 1120]	2642	[4004, 2333]	4683	[3416, 5576]	6724	[6318, 3366]
602	[1121, 1122]	2643	[4005, 4006]	4684	[5947, 2844]	6725	[7375, 3395]
603	[1123, 1124]	2644	[4007, 525]	4685	[5948, 3384]	6726	[1458, 1505]
604	[1025, 1125]	2645	[4008, 2331]	4686	[2836, 2840]	6727	[7376, 5417]
605	[1126, 1127]	2646	[4009, 4010]	4687	[5842, 3680]	6728	[7377, 1389]
606	[1128, 1129]	2647	[206, 1844]	4688	[5949, 5726]	6729	[3542, 3580]
607	[1130, 1131]	2648	[4011, 1684]	4689	[5950, 3772]	6730	[7378, 249]
608	[1132, 1133]	2649	[4006, 4012]	4690	[2823, 5951]	6731	[3587, 6087]
609	[301, 1134]	2650	[4013, 4014]	4691	[5952, 3338]	6732	[7379, 1484]
610	[1135, 428]	2651	[4015, 1674]	4692	[5953, 5554]	6733	[6230, 3438]
611	[1136, 1137]	2652	[4016, 4017]	4693	[5954, 3693]	6734	[7380, 2966]
612	[1138, 1139]	2653	[765, 2314]	4694	[5955, 3036]	6735	[7381, 5724]
613	[1140, 1141]	2654	[4018, 187]	4695	[5464, 3195]	6736	[7382, 1481]
614	[1142, 1143]	2655	[1606, 2151]	4696	[5956, 5957]	6737	[7383, 935]
615	[1144, 1145]	2656	[754, 44]	4697	[5958, 3580]	6738	[7384, 3561]
616	[1146, 1147]	2657	[4019, 2374]	4698	[5959, 1015]	6739	[7385, 5727]
617	[1148, 1149]	2658	[4020, 627]	4699	[3940, 5703]	6740	[3789, 2941]
618	[1150, 1151]	2659	[4021, 686]	4700	[299, 996]	6741	[7386, 5455]
619	[1152, 1153]	2660	[1945, 4022]	4701	[1045, 1119]	6742	[7387, 3442]
620	[1154, 1155]	2661	[4023, 1616]	4702	[1035, 3208]	6743	[5938, 23]
621	[1156, 1157]	2662	[4024, 4025]	4703	[5960, 3355]	6744	[7388, 3288]
622	[1158, 1159]	2663	[4026, 4027]	4704	[5961, 89]	6745	[1386, 3821]
623	[1160, 928]	2664	[4028, 150]	4705	[3849, 5962]	6746	[2964, 5637]
624	[1161, 1162]	2665	[4029, 4030]	4706	[3785, 3774]	6747	[7389, 896]
625	[1163, 917]	2666	[2361, 4031]	4707	[5963, 3215]	6748	[7390, 345]
626	[1164, 453]	2667	[4032, 2528]	4708	[5964, 5964]	6749	[7391, 3169]
627	[1165, 456]	2668	[1894, 1785]	4709	[5965, 2941]	6750	[3173, 6194]
628	[1166, 1167]	2669	[4033, 4034]	4710	[5966, 444]	6751	[7392, 1041]
629	[1168, 1169]	2670	[152, 4035]	4711	[5967, 1565]	6752	[7393, 3061]
630	[1170, 1171]	2671	[4036, 4037]	4712	[5396, 5968]	6753	[7394, 5557]
631	[1172, 1173]	2672	[1981, 1753]	4713	[5969, 3611]	6754	[1452, 3101]
632	[1174, 1175]	2673	[4038, 4039]	4714	[5970, 5696]	6755	[7395, 2739]
633	[1176, 1177]	2674	[4040, 4041]	4715	[5971, 5762]	6756	[7396, 7249]
634	[1178, 1179]	2675	[4042, 741]	4716	[886, 5972]	6757	[3987, 387]
635	[1147, 1180]	2676	[4043, 4044]	4717	[5973, 5974]	6758	[7397, 7239]
636	[1181, 1182]	2677	[4045, 4046]	4718	[5975, 1525]	6759	[1514, 7398]
637	[1183, 1184]	2678	[4047, 2589]	4719	[5976, 5617]	6760	[5768, 5642]
638	[1185, 1086]	2679	[4048, 1681]	4720	[5977, 5485]	6761	[3294, 3245]
639	[1186, 1187]	2680	[4049, 1814]	4721	[5978, 3226]	6762	[5569, 3327]
640	[1188, 1189]	2681	[4050, 1907]	4722	[5979, 5776]	6763	[2805, 937]
641	[1190, 1191]	2682	[4051, 4052]	4723	[5672, 889]	6764	[7399, 7317]

642	[1192, 1004]	2683	[4053, 4054]	4724	[5980, 2967]	6765	[6121, 3982]
643	[1193, 1194]	2684	[2463, 4055]	4725	[5981, 954]	6766	[7400, 109]
644	[1195, 1196]	2685	[4056, 4057]	4726	[1268, 3256]	6767	[7401, 3399]
645	[265, 1197]	2686	[2534, 4058]	4727	[1334, 870]	6768	[7402, 3317]
646	[1198, 1199]	2687	[4059, 4060]	4728	[5982, 5706]	6769	[7403, 5438]
647	[1200, 1201]	2688	[4061, 4062]	4729	[5983, 5353]	6770	[3630, 3417]
648	[1202, 1203]	2689	[4063, 4064]	4730	[5984, 1503]	6771	[7404, 311]
649	[1204, 1205]	2690	[4065, 677]	4731	[2691, 5736]	6772	[7405, 265]
650	[1206, 413]	2691	[1716, 792]	4732	[1141, 5360]	6773	[7406, 5569]
651	[1207, 1208]	2692	[158, 4066]	4733	[5712, 2893]	6774	[3697, 2859]
652	[1209, 1210]	2693	[4067, 2047]	4734	[1465, 5351]	6775	[7407, 432]
653	[1211, 1212]	2694	[4068, 4069]	4735	[5985, 2698]	6776	[7408, 3205]
654	[1213, 944]	2695	[2229, 835]	4736	[1301, 3582]	6777	[7409, 3610]
655	[1214, 1215]	2696	[4070, 622]	4737	[5986, 5987]	6778	[7410, 1413]
656	[1216, 1217]	2697	[4071, 2364]	4738	[5988, 2900]	6779	[3266, 1428]
657	[1218, 1219]	2698	[2081, 2608]	4739	[5989, 891]	6780	[3540, 5896]
658	[1220, 895]	2699	[4072, 4073]	4740	[5990, 3849]	6781	[7411, 3909]
659	[1221, 1222]	2700	[4074, 465]	4741	[5991, 5992]	6782	[7412, 881]
660	[1223, 346]	2701	[4075, 2056]	4742	[1285, 5993]	6783	[7413, 459]
661	[1224, 1225]	2702	[4076, 132]	4743	[5994, 371]	6784	[429, 462]
662	[1226, 1227]	2703	[822, 2505]	4744	[3199, 921]	6785	[7414, 931]
663	[1056, 1228]	2704	[4077, 4078]	4745	[5995, 1024]	6786	[7415, 916]
664	[1229, 1230]	2705	[4079, 2178]	4746	[5996, 3308]	6787	[7416, 3120]
665	[992, 1231]	2706	[4080, 708]	4747	[2973, 2720]	6788	[7417, 3870]
666	[1232, 1233]	2707	[4081, 4082]	4748	[5997, 2819]	6789	[7418, 5703]
667	[337, 1234]	2708	[4083, 2500]	4749	[5998, 441]	6790	[7419, 2657]
668	[1235, 1236]	2709	[632, 2074]	4750	[3394, 1324]	6791	[7420, 5840]
669	[1237, 1170]	2710	[4084, 4085]	4751	[2690, 341]	6792	[6003, 3110]
670	[1001, 314]	2711	[4086, 2441]	4752	[5999, 5630]	6793	[7421, 7398]
671	[1238, 1239]	2712	[4087, 520]	4753	[5352, 346]	6794	[5839, 2935]
672	[1240, 1241]	2713	[4088, 4089]	4754	[3725, 2976]	6795	[7422, 1312]
673	[1242, 1243]	2714	[2368, 2524]	4755	[6000, 3141]	6796	[5372, 6170]
674	[329, 1244]	2715	[4090, 662]	4756	[6001, 2948]	6797	[7423, 2995]
675	[1245, 1246]	2716	[551, 4091]	4757	[6002, 6003]	6798	[7424, 1294]
676	[1129, 1247]	2717	[4092, 4093]	4758	[6004, 2929]	6799	[1321, 5588]
677	[878, 1248]	2718	[543, 4094]	4759	[5594, 2652]	6800	[7425, 3978]
678	[1197, 1249]	2719	[613, 1693]	4760	[6005, 421]	6801	[7426, 3851]
679	[1250, 1251]	2720	[4095, 715]	4761	[6006, 3043]	6802	[7427, 3431]
680	[1252, 1253]	2721	[4096, 1930]	4762	[6007, 3583]	6803	[7428, 5879]
681	[1254, 1255]	2722	[4034, 4097]	4763	[3386, 1441]	6804	[7429, 1065]
682	[1256, 1021]	2723	[4098, 1688]	4764	[6008, 436]	6805	[7430, 1304]
683	[1257, 1258]	2724	[2012, 4099]	4765	[6009, 889]	6806	[3681, 3578]
684	[1259, 1260]	2725	[4100, 4101]	4766	[3708, 446]	6807	[7431, 1474]
685	[1261, 1262]	2726	[1734, 4102]	4767	[6010, 6011]	6808	[7432, 292]

686	[1263, 1264]	2727	[4103, 4104]	4768	[6012, 1544]	6809	[412, 5609]
687	[1265, 1266]	2728	[4105, 4106]	4769	[6013, 1220]	6810	[7433, 7335]
688	[1267, 1268]	2729	[4107, 4108]	4770	[1381, 1082]	6811	[7434, 1398]
689	[1269, 1270]	2730	[4109, 4110]	4771	[3164, 5392]	6812	[280, 5669]
690	[1271, 26]	2731	[2451, 1639]	4772	[5903, 6014]	6813	[2700, 5725]
691	[1049, 1272]	2732	[4111, 2034]	4773	[6015, 6016]	6814	[3085, 3867]
692	[1273, 1274]	2733	[4112, 4106]	4774	[6017, 3698]	6815	[7435, 1120]
693	[1275, 1276]	2734	[4113, 2450]	4775	[6018, 3570]	6816	[6187, 5987]
694	[1277, 1278]	2735	[4114, 4110]	4776	[6019, 393]	6817	[7436, 3845]
695	[1279, 1280]	2736	[4115, 2451]	4777	[6020, 3618]	6818	[7437, 2656]
696	[1281, 1282]	2737	[4116, 4117]	4778	[6021, 5799]	6819	[7438, 5538]
697	[1283, 1284]	2738	[4108, 4118]	4779	[3593, 425]	6820	[3485, 6192]
698	[978, 1285]	2739	[4110, 2238]	4780	[6022, 2834]	6821	[7439, 3276]
699	[1286, 1287]	2740	[824, 2266]	4781	[6023, 1531]	6822	[2712, 6081]
700	[1288, 1289]	2741	[4119, 4120]	4782	[6024, 3253]	6823	[7440, 3517]
701	[1290, 1291]	2742	[167, 4121]	4783	[6025, 3889]	6824	[7441, 2676]
702	[1292, 1293]	2743	[4122, 4123]	4784	[6026, 5822]	6825	[7442, 2726]
703	[1294, 1295]	2744	[4124, 4125]	4785	[6027, 3247]	6826	[7443, 2989]
704	[1296, 1297]	2745	[4126, 2383]	4786	[6028, 3654]	6827	[7444, 1362]
705	[1298, 1299]	2746	[4127, 4128]	4787	[2859, 6029]	6828	[7445, 7301]
706	[1300, 1301]	2747	[4129, 1626]	4788	[3019, 3431]	6829	[3623, 7446]
707	[1302, 1303]	2748	[4130, 4131]	4789	[3952, 3693]	6830	[7447, 3107]
708	[369, 1304]	2749	[4132, 508]	4790	[6030, 6031]	6831	[7448, 3365]
709	[1305, 1306]	2750	[1703, 4133]	4791	[3356, 2959]	6832	[7449, 2829]
710	[1299, 1204]	2751	[1707, 2244]	4792	[6032, 1287]	6833	[7450, 2907]
711	[1307, 1308]	2752	[4134, 4135]	4793	[6033, 1532]	6834	[7451, 5352]
712	[1309, 1310]	2753	[4136, 2463]	4794	[6034, 3378]	6835	[7452, 3928]
713	[1311, 1312]	2754	[2339, 4137]	4795	[6035, 2983]	6836	[7453, 5786]
714	[1313, 1314]	2755	[4138, 4139]	4796	[5476, 3219]	6837	[7454, 2922]
715	[1315, 1316]	2756	[4140, 2218]	4797	[6036, 3520]	6838	[2633, 3374]
716	[1317, 1296]	2757	[4141, 226]	4798	[6037, 6038]	6839	[7455, 1129]
717	[1318, 1319]	2758	[2322, 4142]	4799	[3135, 981]	6840	[5650, 1023]
718	[1320, 1321]	2759	[4143, 4144]	4800	[437, 1198]	6841	[7456, 7457]
719	[1322, 1323]	2760	[4145, 2461]	4801	[6039, 5457]	6842	[3906, 323]
720	[1324, 1325]	2761	[4146, 1867]	4802	[2952, 5458]	6843	[6063, 3125]
721	[1326, 1327]	2762	[4147, 1832]	4803	[2735, 6039]	6844	[7458, 23]
722	[1328, 1329]	2763	[4148, 2343]	4804	[6040, 5461]	6845	[2936, 1257]
723	[1330, 395]	2764	[677, 4149]	4805	[6041, 6042]	6846	[5993, 3639]
724	[1331, 1332]	2765	[4150, 4151]	4806	[6043, 1050]	6847	[7459, 1188]
725	[1333, 1334]	2766	[4152, 746]	4807	[6044, 3985]	6848	[5393, 1288]
726	[891, 1335]	2767	[2008, 4153]	4808	[6045, 3522]	6849	[7460, 3746]
727	[1336, 1337]	2768	[4154, 4155]	4809	[6046, 6047]	6850	[7461, 970]
728	[1338, 1339]	2769	[4156, 1811]	4810	[6048, 2947]	6851	[7462, 5616]
729	[1340, 1341]	2770	[4157, 2078]	4811	[6049, 2784]	6852	[7463, 1342]

730	[1342, 1218]	2771	[4158, 4159]	4812	[2808, 3053]	6853	[7464, 2796]
731	[1343, 1344]	2772	[4160, 2250]	4813	[3162, 6]	6854	[7465, 3794]
732	[1345, 1346]	2773	[4161, 4162]	4814	[6050, 295]	6855	[2985, 5590]
733	[1347, 1348]	2774	[4163, 4164]	4815	[6051, 1066]	6856	[5479, 1308]
734	[1349, 1350]	2775	[1763, 4165]	4816	[6052, 3624]	6857	[5918, 2906]
735	[1351, 1115]	2776	[4166, 2039]	4817	[6053, 107]	6858	[7466, 2962]
736	[1352, 1353]	2777	[4167, 4168]	4818	[6054, 1232]	6859	[5349, 3275]
737	[1354, 1355]	2778	[4169, 194]	4819	[3878, 6055]	6860	[7467, 5609]
738	[1356, 1357]	2779	[4170, 4171]	4820	[2971, 945]	6861	[5830, 3255]
739	[282, 1358]	2780	[777, 1892]	4821	[6056, 6057]	6862	[7468, 3265]
740	[1359, 1360]	2781	[2365, 4172]	4822	[6058, 385]	6863	[7469, 5452]
741	[1361, 1362]	2782	[2377, 1977]	4823	[2661, 6059]	6864	[5666, 992]
742	[1363, 1057]	2783	[2518, 173]	4824	[461, 1551]	6865	[3119, 2855]
743	[1364, 1365]	2784	[4173, 794]	4825	[6060, 2960]	6866	[1489, 3433]
744	[1366, 1367]	2785	[4174, 633]	4826	[6061, 5993]	6867	[7470, 3386]
745	[1368, 1369]	2786	[4175, 4176]	4827	[2945, 3456]	6868	[7471, 7203]
746	[1370, 1299]	2787	[4177, 4178]	4828	[6062, 6063]	6869	[7472, 2999]
747	[1371, 1372]	2788	[4179, 4180]	4829	[3880, 3458]	6870	[7473, 6093]
748	[1373, 1374]	2789	[4181, 1994]	4830	[6064, 2713]	6871	[6284, 1370]
749	[1375, 305]	2790	[1696, 1732]	4831	[6065, 5563]	6872	[1412, 3077]
750	[1376, 1377]	2791	[4182, 2008]	4832	[6066, 3467]	6873	[7474, 1418]
751	[1378, 1379]	2792	[4183, 4184]	4833	[3111, 2892]	6874	[7475, 1141]
752	[1380, 1381]	2793	[4185, 2235]	4834	[6067, 976]	6875	[7476, 5624]
753	[1341, 1382]	2794	[775, 4186]	4835	[6068, 1409]	6876	[7477, 3180]
754	[1383, 1384]	2795	[4187, 4188]	4836	[5772, 6069]	6877	[7478, 3697]
755	[1385, 1386]	2796	[622, 1960]	4837	[6070, 1210]	6878	[7479, 310]
756	[1387, 356]	2797	[4189, 4020]	4838	[6071, 2731]	6879	[7480, 3951]
757	[1388, 1389]	2798	[516, 2402]	4839	[6072, 6073]	6880	[7481, 6110]
758	[1390, 257]	2799	[4190, 4191]	4840	[6074, 3216]	6881	[7482, 1191]
759	[1391, 1392]	2800	[4192, 4193]	4841	[5715, 880]	6882	[7483, 949]
760	[1393, 1394]	2801	[4194, 2600]	4842	[6075, 5464]	6883	[7484, 5808]
761	[1395, 1222]	2802	[4195, 796]	4843	[6076, 3875]	6884	[6308, 3033]
762	[1396, 1397]	2803	[4196, 4197]	4844	[905, 1111]	6885	[3562, 3218]
763	[1398, 1399]	2804	[239, 2597]	4845	[2681, 3946]	6886	[7485, 1254]
764	[1400, 1401]	2805	[4198, 1962]	4846	[6077, 973]	6887	[7486, 3809]
765	[1402, 1403]	2806	[4199, 4058]	4847	[6078, 3339]	6888	[7487, 5683]
766	[1404, 1405]	2807	[4200, 4201]	4848	[3797, 6042]	6889	[7488, 2864]
767	[1406, 1407]	2808	[4202, 4041]	4849	[6079, 2825]	6890	[918, 439]
768	[1362, 1408]	2809	[4203, 509]	4850	[2949, 1284]	6891	[7489, 3681]
769	[1409, 1410]	2810	[4204, 2508]	4851	[5427, 2988]	6892	[3132, 5525]
770	[1411, 1412]	2811	[4205, 3996]	4852	[1550, 3831]	6893	[7490, 1456]
771	[1413, 1414]	2812	[4206, 1657]	4853	[6080, 6081]	6894	[7491, 3295]
772	[1415, 423]	2813	[607, 1972]	4854	[6082, 5868]	6895	[324, 3419]
773	[1416, 1417]	2814	[1855, 4207]	4855	[3801, 1059]	6896	[7492, 2996]

774	[1418, 1419]	2815	[1859, 2101]	4856	[6083, 3814]	6897	[7493, 1262]
775	[1420, 1421]	2816	[4208, 4209]	4857	[6084, 1547]	6898	[7494, 1286]
776	[1422, 1423]	2817	[510, 2493]	4858	[6085, 898]	6899	[7495, 2728]
777	[1424, 1425]	2818	[4210, 2371]	4859	[6086, 92]	6900	[7496, 2730]
778	[1426, 876]	2819	[4211, 2582]	4860	[6087, 6088]	6901	[7497, 3983]
779	[1427, 1097]	2820	[4212, 2467]	4861	[6089, 5936]	6902	[2865, 398]
780	[1428, 1356]	2821	[4213, 4214]	4862	[6090, 919]	6903	[1442, 5724]
781	[1429, 1430]	2822	[4215, 2250]	4863	[6091, 3718]	6904	[7498, 3367]
782	[1431, 1432]	2823	[4216, 4217]	4864	[1233, 3721]	6905	[5922, 1529]
783	[1433, 1434]	2824	[2014, 1671]	4865	[6092, 2800]	6906	[303, 3865]
784	[1435, 1436]	2825	[4218, 4219]	4866	[5879, 5572]	6907	[6292, 2787]
785	[1437, 1438]	2826	[702, 764]	4867	[3494, 6093]	6908	[7499, 261]
786	[1439, 1107]	2827	[4220, 4221]	4868	[2833, 1090]	6909	[7500, 3558]
787	[1169, 1440]	2828	[4222, 4223]	4869	[3077, 1409]	6910	[7501, 6337]
788	[1441, 1442]	2829	[4224, 4213]	4870	[6094, 3381]	6911	[7283, 5800]
789	[1443, 1444]	2830	[4225, 4226]	4871	[5676, 2769]	6912	[3711, 977]
790	[1325, 1445]	2831	[4135, 4227]	4872	[2709, 3242]	6913	[7502, 1271]
791	[1446, 1447]	2832	[4228, 1668]	4873	[6095, 3318]	6914	[120, 3040]
792	[1448, 1449]	2833	[1868, 1941]	4874	[6096, 1333]	6915	[1303, 958]
793	[1450, 29]	2834	[4229, 1801]	4875	[5616, 3797]	6916	[3982, 1103]
794	[1451, 1452]	2835	[4230, 183]	4876	[6097, 6098]	6917	[3013, 5775]
795	[1453, 1454]	2836	[4231, 847]	4877	[6099, 1404]	6918	[3828, 3649]
796	[1455, 1456]	2837	[4165, 1997]	4878	[6100, 1406]	6919	[7503, 1039]
797	[1457, 1458]	2838	[2039, 4232]	4879	[972, 6011]	6920	[7504, 1451]
798	[1459, 1460]	2839	[4233, 4234]	4880	[2867, 5440]	6921	[6189, 1493]
799	[1461, 1462]	2840	[4235, 4236]	4881	[6101, 122]	6922	[7505, 435]
800	[405, 1463]	2841	[4237, 4238]	4882	[3216, 2945]	6923	[5620, 5541]
801	[1464, 1465]	2842	[4239, 4240]	4883	[1519, 3088]	6924	[7506, 1511]
802	[1399, 1466]	2843	[4241, 2057]	4884	[6102, 3556]	6925	[7507, 3401]
803	[1467, 1430]	2844	[4242, 4243]	4885	[6103, 2939]	6926	[3051, 1327]
804	[1468, 1469]	2845	[4244, 4245]	4886	[6104, 5896]	6927	[3840, 1060]
805	[1470, 1471]	2846	[4246, 4155]	4887	[6105, 3392]	6928	[7508, 3906]
806	[1472, 1473]	2847	[2359, 4247]	4888	[6106, 6107]	6929	[3251, 3189]
807	[894, 1474]	2848	[4248, 2140]	4889	[3639, 2776]	6930	[3874, 2661]
808	[1086, 1140]	2849	[4249, 4250]	4890	[6108, 6050]	6931	[3603, 5368]
809	[1475, 1476]	2850	[4251, 682]	4891	[6109, 5378]	6932	[7509, 83]
810	[1076, 1477]	2851	[4252, 4121]	4892	[3805, 6110]	6933	[7510, 2650]
811	[1478, 1479]	2852	[4253, 4254]	4893	[6111, 3686]	6934	[7511, 5604]
812	[1480, 1036]	2853	[4255, 4250]	4894	[6112, 2702]	6935	[7512, 2872]
813	[1481, 1482]	2854	[3994, 1965]	4895	[3313, 3773]	6936	[2780, 5973]
814	[1483, 1484]	2855	[4256, 1967]	4896	[6113, 6114]	6937	[3380, 3590]
815	[1485, 1486]	2856	[4257, 4258]	4897	[6115, 3179]	6938	[909, 5683]
816	[1487, 316]	2857	[1926, 544]	4898	[2785, 334]	6939	[6029, 3758]
817	[1488, 1489]	2858	[4259, 1923]	4899	[6116, 3703]	6940	[3365, 3547]

818	[1291, 1490]	2859	[4260, 2361]	4900	[2992, 3740]	6941	[7513, 270]
819	[1491, 1492]	2860	[4261, 2468]	4901	[6117, 5984]	6942	[7514, 5673]
820	[1493, 1494]	2861	[2137, 4262]	4902	[6118, 1241]	6943	[2905, 6230]
821	[1495, 1496]	2862	[4263, 2514]	4903	[6119, 5933]	6944	[7515, 1175]
822	[1497, 1498]	2863	[761, 866]	4904	[2834, 1047]	6945	[1272, 3715]
823	[1499, 1500]	2864	[2094, 593]	4905	[6120, 3285]	6946	[1543, 406]
824	[1329, 1501]	2865	[4264, 850]	4906	[333, 6121]	6947	[2762, 2983]
825	[1502, 1503]	2866	[4265, 4266]	4907	[6122, 1427]	6948	[7516, 1524]
826	[1504, 1505]	2867	[4267, 4207]	4908	[3787, 2994]	6949	[1253, 3168]
827	[118, 1506]	2868	[4268, 561]	4909	[3432, 994]	6950	[5576, 1338]
828	[1507, 1040]	2869	[4269, 604]	4910	[6123, 5498]	6951	[2772, 1292]
829	[1508, 1130]	2870	[2144, 158]	4911	[6124, 116]	6952	[3907, 3519]
830	[1509, 1510]	2871	[4270, 4073]	4912	[6125, 975]	6953	[2977, 3875]
831	[1511, 1512]	2872	[4271, 1827]	4913	[6126, 2638]	6954	[7517, 357]
832	[1513, 1514]	2873	[2240, 220]	4914	[6127, 952]	6955	[7518, 1106]
833	[1515, 1516]	2874	[134, 4272]	4915	[3318, 3647]	6956	[7519, 3051]
834	[1517, 952]	2875	[2207, 2464]	4916	[6128, 3235]	6957	[3967, 5553]
835	[1518, 1519]	2876	[4273, 4274]	4917	[6129, 332]	6958	[7335, 419]
836	[1520, 1521]	2877	[1569, 4275]	4918	[6038, 3879]	6959	[7520, 5427]
837	[1522, 1523]	2878	[4276, 817]	4919	[6130, 6039]	6960	[7521, 1295]
838	[1524, 1525]	2879	[4277, 239]	4920	[6131, 6132]	6961	[7522, 1377]
839	[1526, 946]	2880	[4278, 4203]	4921	[6133, 3413]	6962	[7523, 4104]
840	[1527, 1528]	2881	[2618, 4279]	4922	[6134, 1204]	6963	[7398, 6244]
841	[98, 1300]	2882	[4280, 4281]	4923	[6135, 5982]	6964	[7524, 3764]
842	[1529, 1530]	2883	[2511, 4282]	4924	[6136, 333]	6965	[3107, 897]
843	[1007, 1531]	2884	[4283, 4010]	4925	[6137, 3935]	6966	[7525, 1371]
844	[1476, 1532]	2885	[4221, 840]	4926	[994, 5531]	6967	[2863, 5652]
845	[1533, 1534]	2886	[4281, 2046]	4927	[6138, 5529]	6968	[6194, 2836]
846	[1535, 1536]	2887	[2041, 4284]	4928	[6139, 3783]	6969	[7526, 2846]
847	[1537, 1538]	2888	[4172, 4281]	4929	[6140, 2845]	6970	[7527, 5418]
848	[1539, 1540]	2889	[4285, 4286]	4930	[6141, 5361]	6971	[5391, 393]
849	[1541, 82]	2890	[4287, 1854]	4931	[946, 3444]	6972	[7528, 3721]
850	[1542, 84]	2891	[4288, 183]	4932	[6142, 5659]	6973	[1162, 3792]
851	[959, 1543]	2892	[4254, 579]	4933	[6143, 2768]	6974	[7529, 5707]
852	[439, 1544]	2893	[4289, 4290]	4934	[6144, 3826]	6975	[7530, 5972]
853	[1545, 1546]	2894	[4291, 4292]	4935	[5992, 1322]	6976	[7531, 3362]
854	[1547, 1548]	2895	[1747, 2572]	4936	[6016, 3240]	6977	[7532, 3804]
855	[1549, 1550]	2896	[2609, 4293]	4937	[6145, 3888]	6978	[7533, 3156]
856	[1551, 1552]	2897	[4294, 216]	4938	[6146, 3893]	6979	[1379, 6260]
857	[1553, 1554]	2898	[4295, 175]	4939	[6147, 3603]	6980	[7534, 5818]
858	[1555, 1556]	2899	[4296, 4297]	4940	[2984, 1374]	6981	[7535, 938]
859	[1557, 1558]	2900	[4298, 4299]	4941	[6148, 347]	6982	[3308, 1365]
860	[1559, 1215]	2901	[848, 4300]	4942	[5797, 3392]	6983	[7536, 6263]
861	[1560, 450]	2902	[4301, 1619]	4943	[6149, 3372]	6984	[7537, 2743]

862	[1561, 1562]	2903	[4302, 4060]	4944	[3320, 3845]	6985	[7538, 988]
863	[1563, 1564]	2904	[4303, 1696]	4945	[6150, 259]	6986	[1556, 2876]
864	[373, 1565]	2905	[1972, 4304]	4946	[6151, 3189]	6987	[293, 2851]
865	[1566, 1286]	2906	[4305, 642]	4947	[6152, 1499]	6988	[926, 5911]
866	[1394, 1138]	2907	[4306, 2099]	4948	[6153, 5581]	6989	[7539, 2985]
867	[1473, 1567]	2908	[1781, 4164]	4949	[89, 6154]	6990	[5718, 1534]
868	[1568, 1569]	2909	[4307, 4308]	4950	[5505, 5772]	6991	[7540, 7251]
869	[1570, 481]	2910	[4309, 4024]	4951	[5462, 3968]	6992	[7541, 6324]
870	[1571, 1572]	2911	[2231, 650]	4952	[2877, 3203]	6993	[7542, 6059]
871	[1573, 1574]	2912	[4310, 4091]	4953	[6155, 5360]	6994	[1372, 1337]
872	[1575, 661]	2913	[4311, 2130]	4954	[916, 2633]	6995	[7543, 3964]
873	[1576, 569]	2914	[4312, 2268]	4955	[6156, 388]	6996	[7544, 3528]
874	[1577, 1578]	2915	[2551, 2167]	4956	[3817, 1110]	6997	[6192, 5666]
875	[1579, 1580]	2916	[1771, 4313]	4957	[3513, 1355]	6998	[1184, 1554]
876	[1581, 1582]	2917	[4314, 4315]	4958	[6157, 3094]	6999	[1389, 3491]
877	[1583, 1584]	2918	[838, 2444]	4959	[1471, 107]	7000	[7545, 5974]
878	[210, 1585]	2919	[4316, 2625]	4960	[6158, 3510]	7001	[7546, 2783]
879	[1586, 623]	2920	[4317, 1644]	4961	[3784, 1424]	7002	[7547, 3070]
880	[1587, 187]	2921	[4318, 4319]	4962	[6159, 3168]	7003	[6170, 5495]
881	[1588, 1589]	2922	[2212, 197]	4963	[6160, 1292]	7004	[7548, 297]
882	[1590, 1591]	2923	[2268, 1641]	4964	[6161, 6162]	7005	[7549, 1279]
883	[1592, 1593]	2924	[1940, 4000]	4965	[3590, 6163]	7006	[7550, 3007]
884	[1594, 1595]	2925	[4320, 4230]	4966	[6164, 5836]	7007	[7551, 6014]
885	[1596, 1597]	2926	[4321, 1625]	4967	[1477, 2930]	7008	[7552, 6393]
886	[1598, 1599]	2927	[4322, 3994]	4968	[1217, 2869]	7009	[7553, 3856]
887	[785, 1600]	2928	[2562, 1967]	4969	[6165, 5649]	7010	[5553, 2759]
888	[1601, 1602]	2929	[2300, 231]	4970	[3070, 72]	7011	[7554, 3808]
889	[1603, 1604]	2930	[4323, 1915]	4971	[6166, 1445]	7012	[7555, 902]
890	[1605, 1606]	2931	[4324, 4325]	4972	[6167, 2990]	7013	[7556, 3472]
891	[1607, 1608]	2932	[4326, 4327]	4973	[6168, 356]	7014	[7557, 2801]
892	[512, 1609]	2933	[4328, 4329]	4974	[6169, 6170]	7015	[7558, 1226]
893	[1610, 1611]	2934	[4330, 4275]	4975	[6171, 3566]	7016	[7559, 2647]
894	[1612, 1613]	2935	[4331, 4332]	4976	[6172, 6173]	7017	[7560, 5392]
895	[1614, 1615]	2936	[4333, 4334]	4977	[5629, 2705]	7018	[7561, 987]
896	[1616, 1617]	2937	[4335, 4336]	4978	[6174, 5429]	7019	[7562, 3330]
897	[1618, 188]	2938	[800, 2383]	4979	[3819, 5936]	7020	[7563, 1379]
898	[1619, 1620]	2939	[4337, 4279]	4980	[6175, 360]	7021	[6417, 5617]
899	[1621, 1622]	2940	[739, 4338]	4981	[1486, 2881]	7022	[1222, 3549]
900	[1623, 36]	2941	[4339, 1689]	4982	[6176, 875]	7023	[6324, 3772]
901	[1624, 1625]	2942	[4340, 519]	4983	[3081, 2723]	7024	[6132, 3911]
902	[1626, 1627]	2943	[4341, 579]	4984	[6177, 5454]	7025	[7564, 383]
903	[1628, 1629]	2944	[4342, 4343]	4985	[1228, 971]	7026	[7565, 2998]
904	[1630, 1631]	2945	[4344, 4075]	4986	[6178, 299]	7027	[1357, 3123]
905	[1632, 1633]	2946	[804, 4308]	4987	[6179, 5370]	7028	[7566, 304]

906	[1634, 1635]	2947	[4345, 2196]	4988	[6180, 1099]	7029	[7567, 936]
907	[1636, 1637]	2948	[4346, 4347]	4989	[6181, 3108]	7030	[7568, 3425]
908	[1638, 529]	2949	[2089, 1774]	4990	[6182, 941]	7031	[7569, 990]
909	[1639, 1640]	2950	[4348, 2033]	4991	[1013, 3234]	7032	[5957, 421]
910	[1641, 1642]	2951	[2238, 1637]	4992	[3311, 5455]	7033	[7570, 3569]
911	[1643, 1644]	2952	[1635, 2450]	4993	[6183, 1037]	7034	[259, 5512]
912	[1645, 1646]	2953	[4349, 1639]	4994	[6184, 3912]	7035	[7321, 1476]
913	[1647, 1648]	2954	[486, 2033]	4995	[6185, 3316]	7036	[3447, 954]
914	[1649, 648]	2955	[4350, 1654]	4996	[375, 5375]	7037	[5532, 3744]
915	[1650, 1651]	2956	[4351, 4352]	4997	[6186, 5830]	7038	[1215, 5632]
916	[1652, 1570]	2957	[4353, 4354]	4998	[2770, 6187]	7039	[3738, 3705]
917	[1653, 1654]	2958	[4355, 4356]	4999	[6055, 3708]	7040	[7571, 1033]
918	[1655, 144]	2959	[4357, 4358]	5000	[6188, 2955]	7041	[7572, 2714]
919	[1656, 1657]	2960	[4359, 2544]	5001	[313, 6189]	7042	[7573, 5351]
920	[1658, 719]	2961	[4360, 147]	5002	[6190, 3785]	7043	[3618, 3787]
921	[1659, 830]	2962	[4361, 4362]	5003	[6191, 6192]	7044	[7574, 3529]
922	[1660, 640]	2963	[4363, 4364]	5004	[6193, 6194]	7045	[5545, 3345]
923	[555, 1661]	2964	[4365, 2175]	5005	[6195, 5713]	7046	[3156, 6098]
924	[1662, 1663]	2965	[4366, 726]	5006	[6196, 80]	7047	[7575, 3278]
925	[1664, 1665]	2966	[4367, 1609]	5007	[6197, 2826]	7048	[1082, 2856]
926	[1666, 1667]	2967	[4368, 2504]	5008	[6198, 3458]	7049	[7576, 5460]
927	[1668, 1669]	2968	[4369, 4237]	5009	[6199, 3137]	7050	[5440, 6031]
928	[1670, 1671]	2969	[4370, 743]	5010	[6200, 5377]	7051	[7577, 5842]
929	[1672, 1673]	2970	[1888, 4371]	5011	[5623, 3915]	7052	[5429, 3041]
930	[1674, 1675]	2971	[1896, 1673]	5012	[6201, 6202]	7053	[1047, 3294]
931	[1676, 1677]	2972	[4372, 4373]	5013	[116, 6203]	7054	[6173, 873]
932	[1678, 1590]	2973	[4374, 2146]	5014	[6204, 3243]	7055	[7578, 3424]
933	[1679, 1591]	2974	[4375, 1575]	5015	[6205, 1234]	7056	[3475, 915]
934	[1680, 1681]	2975	[1721, 4376]	5016	[1068, 2754]	7057	[7579, 7446]
935	[1682, 1683]	2976	[4377, 538]	5017	[1369, 3675]	7058	[7580, 877]
936	[1684, 1685]	2977	[4378, 2586]	5018	[6206, 1517]	7059	[7581, 3174]
937	[1686, 535]	2978	[4379, 4380]	5019	[6207, 5855]	7060	[5377, 2741]
938	[1687, 1688]	2979	[4381, 4382]	5020	[6208, 3722]	7061	[7582, 2870]
939	[1689, 1690]	2980	[4383, 4384]	5021	[6059, 370]	7062	[2980, 3446]
940	[1691, 1692]	2981	[4385, 4149]	5022	[6209, 6055]	7063	[7583, 930]
941	[1693, 1694]	2982	[4386, 1947]	5023	[6210, 5848]	7064	[5868, 5676]
942	[1695, 1696]	2983	[4387, 4388]	5024	[6211, 348]	7065	[3905, 3497]
943	[1697, 1698]	2984	[2076, 4389]	5025	[3891, 3437]	7066	[3830, 3551]
944	[58, 1699]	2985	[2622, 4390]	5026	[6212, 2761]	7067	[7584, 1119]
945	[1700, 1684]	2986	[4102, 4391]	5027	[6213, 932]	7068	[7585, 3206]
946	[1701, 162]	2987	[4392, 1649]	5028	[1410, 3808]	7069	[6329, 5441]
947	[1702, 1703]	2988	[4393, 2364]	5029	[3588, 3017]	7070	[3823, 1114]
948	[1704, 1705]	2989	[2159, 4394]	5030	[6214, 5892]	7071	[5490, 2964]
949	[1706, 1707]	2990	[4362, 2030]	5031	[3169, 1535]	7072	[7586, 5382]

950	[1708, 1709]	2991	[4395, 4396]	5032	[3945, 3164]	7073	[7587, 262]
951	[1710, 1711]	2992	[2435, 4397]	5033	[6215, 2896]	7074	[2666, 2651]
952	[1712, 1713]	2993	[4398, 4298]	5034	[6216, 2771]	7075	[7588, 5592]
953	[1714, 1665]	2994	[4399, 472]	5035	[6217, 2737]	7076	[7589, 3950]
954	[1715, 1716]	2995	[2073, 1955]	5036	[6218, 6219]	7077	[7590, 1410]
955	[1717, 860]	2996	[4400, 4401]	5037	[1421, 3106]	7078	[2920, 1465]
956	[1718, 1719]	2997	[4402, 4403]	5038	[6220, 3085]	7079	[7591, 3576]
957	[1720, 1721]	2998	[4404, 4405]	5039	[6221, 300]	7080	[7592, 3575]
958	[1722, 1723]	2999	[4082, 2094]	5040	[3023, 1290]	7081	[3838, 1095]
959	[1724, 1725]	3000	[4406, 2609]	5041	[3947, 3512]	7082	[7593, 5890]
960	[465, 1726]	3001	[4407, 4294]	5042	[6222, 2820]	7083	[1208, 1473]
961	[1727, 1728]	3002	[4408, 1921]	5043	[3497, 1438]	7084	[7594, 3416]
962	[1729, 1730]	3003	[4409, 4410]	5044	[1027, 1542]	7085	[1365, 5890]
963	[1731, 1732]	3004	[4411, 4412]	5045	[3056, 5875]	7086	[7595, 6275]
964	[1733, 1734]	3005	[4413, 4414]	5046	[2940, 2973]	7087	[1397, 3455]
965	[1735, 778]	3006	[4415, 4416]	5047	[1360, 3155]	7088	[3677, 3793]
966	[1736, 556]	3007	[4417, 4418]	5048	[5395, 1063]	7089	[3570, 3009]
967	[1737, 1738]	3008	[4419, 752]	5049	[6223, 911]	7090	[7596, 6154]
968	[1739, 1740]	3009	[4420, 1796]	5050	[5747, 1268]	7091	[7597, 5951]
969	[138, 477]	3010	[4421, 526]	5051	[6224, 6225]	7092	[26, 6417]
970	[1741, 1742]	3011	[4286, 1848]	5052	[5498, 1406]	7093	[7598, 1098]
971	[1743, 213]	3012	[4422, 1932]	5053	[6226, 3471]	7094	[2824, 6064]
972	[1744, 1745]	3013	[2205, 2247]	5054	[1201, 5765]	7095	[343, 2679]
973	[1746, 1747]	3014	[4423, 4424]	5055	[6047, 3730]	7096	[7599, 3593]
974	[1748, 1749]	3015	[4425, 1608]	5056	[3419, 6050]	7097	[6275, 309]
975	[1750, 1751]	3016	[4426, 4427]	5057	[6227, 2790]	7098	[7600, 395]
976	[1752, 1753]	3017	[4428, 4357]	5058	[2791, 1203]	7099	[3520, 3637]
977	[1754, 1755]	3018	[4429, 4430]	5059	[6228, 1506]	7100	[1374, 3847]
978	[1756, 1757]	3019	[2203, 625]	5060	[3857, 1243]	7101	[7601, 1035]
979	[1758, 1759]	3020	[4431, 2573]	5061	[6229, 6230]	7102	[3097, 1522]
980	[1760, 1761]	3021	[4432, 4433]	5062	[6069, 3750]	7103	[3766, 5903]
981	[1762, 1763]	3022	[4434, 807]	5063	[3160, 1392]	7104	[5841, 3160]
982	[1764, 1765]	3023	[4435, 1851]	5064	[6231, 1487]	7105	[7602, 1097]
983	[1766, 1767]	3024	[2180, 2076]	5065	[6232, 1301]	7106	[1274, 5858]
984	[1768, 1769]	3025	[4436, 2053]	5066	[3854, 332]	7107	[2675, 3521]
985	[1770, 1771]	3026	[4437, 4378]	5067	[6233, 6064]	7108	[7603, 2899]
986	[1772, 1773]	3027	[4430, 4438]	5068	[6234, 3588]	7109	[1159, 3953]
987	[1774, 1775]	3028	[4439, 4440]	5069	[3730, 3916]	7110	[3737, 18]
988	[1775, 1635]	3029	[4441, 4442]	5070	[6235, 1192]	7111	[7604, 293]
989	[1776, 1777]	3030	[4443, 2117]	5071	[6236, 6237]	7112	[5808, 3515]
990	[1778, 641]	3031	[4444, 4445]	5072	[6238, 462]	7113	[3723, 2694]
991	[506, 1779]	3032	[4446, 2079]	5073	[3901, 5818]	7114	[6251, 5523]
992	[1780, 1781]	3033	[4447, 4448]	5074	[6239, 3150]	7115	[7605, 3415]
993	[1782, 1783]	3034	[1979, 4449]	5075	[80, 6240]	7116	[1482, 3140]

994	[1784, 1785]	3035	[4450, 2341]	5076	[6241, 6242]	7117	[5738, 1133]
995	[1786, 722]	3036	[4451, 2211]	5077	[6243, 6244]	7118	[7606, 3760]
996	[569, 1787]	3037	[4452, 681]	5078	[6245, 1043]	7119	[7607, 2843]
997	[54, 1788]	3038	[4453, 4454]	5079	[6246, 1455]	7120	[7608, 1543]
998	[36, 155]	3039	[4455, 4456]	5080	[5968, 3891]	7121	[7609, 1446]
999	[1789, 50]	3040	[4457, 2465]	5081	[1335, 5490]	7122	[7610, 3848]
1000	[1790, 1791]	3041	[4458, 4459]	5082	[5858, 5877]	7123	[2942, 5604]
1001	[1792, 1793]	3042	[4460, 771]	5083	[3045, 6247]	7124	[7611, 1537]
1002	[1794, 1795]	3043	[4461, 827]	5084	[6248, 3196]	7125	[6031, 2745]
1003	[1796, 735]	3044	[4462, 4008]	5085	[6249, 5875]	7126	[7612, 3375]
1004	[1654, 1797]	3045	[4463, 4464]	5086	[6250, 3084]	7127	[7613, 3071]
1005	[1745, 153]	3046	[4465, 2603]	5087	[1289, 6251]	7128	[6337, 1539]
1006	[1798, 1799]	3047	[4466, 4467]	5088	[6252, 3154]	7129	[3933, 2657]
1007	[1800, 1801]	3048	[4468, 612]	5089	[2943, 1375]	7130	[289, 3232]
1008	[1802, 1803]	3049	[4469, 4186]	5090	[5822, 3703]	7131	[7614, 6187]
1009	[1804, 1805]	3050	[4470, 4471]	5091	[2842, 1225]	7132	[7615, 3079]
1010	[1622, 1806]	3051	[790, 2564]	5092	[6253, 5812]	7133	[7317, 1541]
1011	[1807, 522]	3052	[4472, 2068]	5093	[6254, 324]	7134	[7616, 3175]
1012	[1808, 1809]	3053	[4473, 4474]	5094	[6255, 2901]	7135	[5374, 3561]
1013	[1810, 1811]	3054	[541, 4475]	5095	[6256, 5800]	7136	[7617, 3487]
1014	[1812, 1813]	3055	[4476, 2102]	5096	[6257, 1513]	7137	[7618, 449]
1015	[1814, 543]	3056	[4477, 4478]	5097	[6258, 1231]	7138	[7619, 1197]
1016	[1815, 1816]	3057	[852, 4479]	5098	[455, 6237]	7139	[2873, 5372]
1017	[1817, 1767]	3058	[620, 4480]	5099	[2673, 1089]	7140	[7620, 2781]
1018	[1818, 1819]	3059	[4418, 4481]	5100	[6259, 6260]	7141	[7621, 1260]
1019	[674, 1820]	3060	[578, 4482]	5101	[6261, 3525]	7142	[7622, 5572]
1020	[1821, 1822]	3061	[4483, 4484]	5102	[1266, 2921]	7143	[2853, 2931]
1021	[1823, 1755]	3062	[4484, 4069]	5103	[1469, 1094]	7144	[7623, 5669]
1022	[1824, 1825]	3063	[2028, 2108]	5104	[6262, 5582]	7145	[7624, 1216]
1023	[1826, 1827]	3064	[4485, 1957]	5105	[3479, 6263]	7146	[7625, 5531]
1024	[1828, 1829]	3065	[4401, 4486]	5106	[2723, 1176]	7147	[7626, 3301]
1025	[1830, 1831]	3066	[4487, 4282]	5107	[3011, 1034]	7148	[7627, 2709]
1026	[1832, 1833]	3067	[533, 4488]	5108	[6264, 3738]	7149	[5911, 405]
1027	[1834, 1835]	3068	[4489, 634]	5109	[6265, 5602]	7150	[7628, 3078]
1028	[1836, 1837]	3069	[4490, 4491]	5110	[1392, 6147]	7151	[3079, 29]
1029	[1838, 1839]	3070	[4492, 213]	5111	[3545, 2997]	7152	[7629, 890]
1030	[1840, 1841]	3071	[4493, 2583]	5112	[6266, 5359]	7153	[7630, 3477]
1031	[1842, 683]	3072	[4373, 4494]	5113	[2704, 2990]	7154	[7631, 5517]
1032	[1843, 1844]	3073	[1825, 4495]	5114	[3915, 2939]	7155	[957, 5839]
1033	[1845, 1675]	3074	[4496, 4497]	5115	[6267, 2718]	7156	[7457, 1432]
1034	[1846, 1847]	3075	[4498, 4499]	5116	[2879, 2898]	7157	[7632, 3534]
1035	[1848, 1849]	3076	[4085, 4356]	5117	[94, 2843]	7158	[7633, 3069]
1036	[1850, 1851]	3077	[4500, 756]	5118	[6268, 5619]	7159	[7634, 386]
1037	[1852, 750]	3078	[2486, 788]	5119	[6269, 1010]	7160	[7635, 1247]

1038	[1853, 488]	3079	[4501, 61]	5120	[5359, 5592]	7161	[7636, 2877]
1039	[1854, 1855]	3080	[4502, 675]	5121	[6270, 5519]	7162	[5713, 3259]
1040	[1856, 1857]	3081	[4503, 2079]	5122	[6219, 1079]	7163	[6202, 1000]
1041	[1858, 1859]	3082	[4504, 4384]	5123	[2783, 2674]	7164	[7251, 1158]
1042	[1860, 1861]	3083	[2064, 572]	5124	[6271, 5462]	7165	[7637, 1551]
1043	[1862, 1773]	3084	[4505, 590]	5125	[1438, 3352]	7166	[7638, 3700]
1044	[1863, 1864]	3085	[1857, 4029]	5126	[6272, 3182]	7167	[7639, 5638]
1045	[1865, 1866]	3086	[2573, 4506]	5127	[2702, 1246]	7168	[7640, 3860]
1046	[1867, 1868]	3087	[4507, 2147]	5128	[6273, 3916]	7169	[3400, 2747]
1047	[1869, 1870]	3088	[4508, 1756]	5129	[6274, 2850]	7170	[1367, 5391]
1048	[1871, 1872]	3089	[4509, 4243]	5130	[3292, 6275]	7171	[7641, 1056]
1049	[1873, 1874]	3090	[2021, 2548]	5131	[315, 2636]	7172	[7642, 892]
1050	[1875, 139]	3091	[4510, 1832]	5132	[6276, 2652]	7173	[7643, 3621]
1051	[1876, 1877]	3092	[4511, 4101]	5133	[6277, 2791]	7174	[7644, 1067]
1052	[1878, 1872]	3093	[4512, 4187]	5134	[6278, 301]	7175	[5363, 2934]
1053	[1879, 744]	3094	[2353, 4435]	5135	[6279, 907]	7176	[7645, 3441]
1054	[1880, 1881]	3095	[4513, 4053]	5136	[6280, 2942]	7177	[7268, 2634]
1055	[1882, 1883]	3096	[4514, 4137]	5137	[5525, 6281]	7178	[7646, 917]
1056	[1884, 1885]	3097	[4515, 2572]	5138	[6282, 5550]	7179	[5466, 3068]
1057	[1886, 652]	3098	[834, 4516]	5139	[6283, 6284]	7180	[6162, 3883]
1058	[1887, 1888]	3099	[4517, 525]	5140	[6285, 1128]	7181	[7647, 320]
1059	[1889, 1890]	3100	[4518, 4038]	5141	[3388, 6173]	7182	[6247, 3826]
1060	[1891, 1892]	3101	[4519, 4520]	5142	[6286, 5456]	7183	[7648, 5824]
1061	[1893, 1894]	3102	[4521, 845]	5143	[5481, 1174]	7184	[7649, 4550]
1062	[1895, 1896]	3103	[4058, 2300]	5144	[6287, 3878]	7185	[2629, 7153]
1063	[1897, 1898]	3104	[4522, 4523]	5145	[6244, 2774]	7186	[2417, 4454]
1064	[1899, 1584]	3105	[4524, 4525]	5146	[5698, 3524]	7187	[7650, 5070]
1065	[1900, 1901]	3106	[4526, 2349]	5147	[3794, 74]	7188	[7651, 2501]
1066	[1902, 1903]	3107	[2428, 2137]	5148	[6288, 363]	7189	[7652, 4195]
1067	[1904, 1905]	3108	[4527, 228]	5149	[5866, 5484]	7190	[7653, 4834]
1068	[1906, 1907]	3109	[4528, 2521]	5150	[6289, 1408]	7191	[7654, 688]
1069	[1908, 1909]	3110	[4529, 4530]	5151	[6290, 3736]	7192	[7655, 2567]
1070	[126, 514]	3111	[4531, 4532]	5152	[3605, 6003]	7193	[640, 4642]
1071	[1910, 1789]	3112	[4533, 4534]	5153	[3647, 3179]	7194	[7656, 2610]
1072	[1911, 586]	3113	[4535, 2386]	5154	[6291, 6292]	7195	[7657, 2212]
1073	[1912, 845]	3114	[4536, 4537]	5155	[2798, 1521]	7196	[4639, 2134]
1074	[1913, 847]	3115	[4538, 4539]	5156	[6293, 3405]	7197	[858, 4196]
1075	[1914, 1915]	3116	[654, 2194]	5157	[6294, 5794]	7198	[7658, 4774]
1076	[1916, 1917]	3117	[670, 630]	5158	[6295, 3153]	7199	[204, 6992]
1077	[1918, 704]	3118	[4540, 4541]	5159	[6296, 2680]	7200	[1711, 1984]
1078	[1919, 656]	3119	[4542, 4153]	5160	[6297, 3370]	7201	[7659, 5067]
1079	[1920, 1921]	3120	[4543, 818]	5161	[6298, 3088]	7202	[7660, 1678]
1080	[1922, 720]	3121	[4544, 4545]	5162	[6, 3141]	7203	[7661, 4347]
1081	[1923, 1924]	3122	[4546, 832]	5163	[928, 6284]	7204	[6630, 545]

1082	[1925, 1926]	3123	[4547, 2267]	5164	[6299, 5887]	7205	[2446, 4778]
1083	[1927, 1928]	3124	[2429, 1800]	5165	[6300, 2640]	7206	[4834, 1645]
1084	[1929, 1930]	3125	[4548, 4549]	5166	[6301, 3430]	7207	[7662, 4934]
1085	[1726, 1931]	3126	[4550, 4551]	5167	[6302, 3773]	7208	[7663, 4238]
1086	[1932, 1933]	3127	[1874, 4552]	5168	[6303, 1108]	7209	[7664, 1885]
1087	[1934, 1935]	3128	[4553, 2464]	5169	[6304, 5841]	7210	[4681, 7138]
1088	[1936, 1937]	3129	[4554, 4397]	5170	[6305, 3926]	7211	[1795, 2032]
1089	[1938, 604]	3130	[4486, 4555]	5171	[6281, 3055]	7212	[7665, 6471]
1090	[1939, 1940]	3131	[4214, 4294]	5172	[3859, 6219]	7213	[7666, 6996]
1091	[1941, 1942]	3132	[4556, 1585]	5173	[1297, 2756]	7214	[4676, 4061]
1092	[1943, 1908]	3133	[4557, 2019]	5174	[6306, 5346]	7215	[7667, 7119]
1093	[1944, 1945]	3134	[4558, 670]	5175	[6307, 3380]	7216	[4984, 4839]
1094	[1946, 1947]	3135	[4559, 1805]	5176	[5760, 3000]	7217	[4332, 4470]
1095	[1948, 171]	3136	[4560, 4422]	5177	[1425, 3759]	7218	[7668, 4417]
1096	[1949, 1950]	3137	[4561, 125]	5178	[3129, 6308]	7219	[7669, 2526]
1097	[1951, 1952]	3138	[771, 4148]	5179	[1466, 2829]	7220	[7670, 4196]
1098	[1953, 1847]	3139	[4562, 4563]	5180	[3228, 1105]	7221	[1595, 4835]
1099	[1954, 1955]	3140	[4564, 4376]	5181	[2635, 3120]	7222	[636, 142]
1100	[208, 1956]	3141	[4565, 4181]	5182	[6309, 3010]	7223	[7671, 2230]
1101	[1957, 1651]	3142	[4041, 4566]	5183	[1127, 1319]	7224	[7672, 4859]
1102	[1958, 1949]	3143	[4567, 4388]	5184	[6310, 3432]	7225	[2278, 7082]
1103	[1959, 1960]	3144	[4568, 195]	5185	[6311, 365]	7226	[7673, 2036]
1104	[1961, 1962]	3145	[4569, 4234]	5186	[1219, 5805]	7227	[7183, 857]
1105	[1963, 802]	3146	[4570, 2588]	5187	[5775, 876]	7228	[7674, 7675]
1106	[1964, 1874]	3147	[1589, 2595]	5188	[6312, 3001]	7229	[7676, 4642]
1107	[1965, 556]	3148	[241, 532]	5189	[6313, 1190]	7230	[7677, 6802]
1108	[1966, 612]	3149	[1861, 160]	5190	[6314, 5620]	7231	[7678, 7679]
1109	[1967, 1968]	3150	[4571, 1683]	5191	[6057, 1381]	7232	[1730, 7680]
1110	[1969, 1970]	3151	[2108, 4572]	5192	[6315, 3068]	7233	[1983, 5049]
1111	[1971, 1972]	3152	[4573, 4284]	5193	[1546, 3096]	7234	[582, 6795]
1112	[1973, 1974]	3153	[2167, 4574]	5194	[3771, 3470]	7235	[7681, 7057]
1113	[1975, 1575]	3154	[4575, 4576]	5195	[6316, 2729]	7236	[7682, 4765]
1114	[1976, 1977]	3155	[4577, 1647]	5196	[6317, 1403]	7237	[6811, 2193]
1115	[1978, 1979]	3156	[4578, 2593]	5197	[873, 6318]	7238	[1833, 7683]
1116	[1980, 678]	3157	[4579, 4580]	5198	[882, 3039]	7239	[7684, 4118]
1117	[171, 1981]	3158	[4581, 4172]	5199	[3515, 5863]	7240	[7685, 5151]
1118	[1982, 1983]	3159	[4012, 4582]	5200	[6319, 2938]	7241	[7686, 6854]
1119	[1864, 657]	3160	[4583, 479]	5201	[6320, 2667]	7242	[5044, 6804]
1120	[1984, 706]	3161	[4584, 4585]	5202	[6321, 3083]	7243	[7687, 1748]
1121	[1985, 1986]	3162	[4586, 590]	5203	[6322, 6323]	7244	[2114, 752]
1122	[1987, 678]	3163	[4587, 4588]	5204	[2664, 6324]	7245	[7688, 6925]
1123	[1988, 1989]	3164	[4589, 2605]	5205	[3847, 6325]	7246	[712, 772]
1124	[1990, 1991]	3165	[4590, 4591]	5206	[6326, 1564]	7247	[4596, 4265]
1125	[1992, 1993]	3166	[4592, 596]	5207	[6327, 2919]	7248	[7689, 6623]

1126	[1994, 1995]	3167	[4593, 2387]	5208	[6328, 6329]	7249	[7690, 1627]
1127	[1996, 1997]	3168	[4594, 2311]	5209	[1191, 3764]	7250	[7691, 5305]
1128	[666, 1747]	3169	[763, 136]	5210	[6330, 3040]	7251	[7692, 2050]
1129	[1998, 1999]	3170	[4595, 4596]	5211	[6331, 3527]	7252	[5296, 5101]
1130	[2000, 2001]	3171	[4597, 2386]	5212	[6332, 3227]	7253	[2259, 4147]
1131	[475, 2002]	3172	[1991, 819]	5213	[1403, 3394]	7254	[7693, 7]
1132	[2003, 2004]	3173	[4598, 4599]	5214	[6333, 2749]	7255	[4275, 5124]
1133	[2005, 2006]	3174	[4600, 1853]	5215	[2654, 3467]	7256	[7694, 5144]
1134	[2007, 2008]	3175	[4601, 2294]	5216	[1447, 1296]	7257	[7695, 4398]
1135	[2009, 806]	3176	[4602, 4603]	5217	[6334, 3519]	7258	[7696, 2412]
1136	[2010, 578]	3177	[4604, 4605]	5218	[6335, 3637]	7259	[7697, 6502]
1137	[2011, 2012]	3178	[2498, 1781]	5219	[6336, 3201]	7260	[2248, 1704]
1138	[2013, 2014]	3179	[4606, 4607]	5220	[5632, 6337]	7261	[4010, 2000]
1139	[2015, 594]	3180	[140, 701]	5221	[6338, 3125]	7262	[7698, 693]
1140	[2016, 2017]	3181	[4608, 4609]	5222	[6339, 2635]	7263	[4843, 6832]
1141	[2018, 2019]	3182	[4610, 4402]	5223	[3140, 6047]	7264	[7699, 4080]
1142	[2020, 2021]	3183	[4611, 1894]	5224	[6340, 1269]	7265	[7700, 772]
1143	[2022, 2023]	3184	[182, 1798]	5225	[5782, 1240]	7266	[7701, 2447]
1144	[2024, 2025]	3185	[832, 4287]	5226	[6341, 3938]	7267	[5315, 7174]
1145	[2026, 179]	3186	[4612, 4586]	5227	[6011, 6225]	7268	[7702, 3993]
1146	[2027, 2028]	3187	[4227, 4613]	5228	[6342, 1421]	7269	[7703, 6681]
1147	[2029, 2030]	3188	[4614, 1814]	5229	[6343, 6189]	7270	[4833, 6925]
1148	[2031, 2032]	3189	[4615, 4054]	5230	[6344, 1179]	7271	[5206, 2520]
1149	[2033, 2034]	3190	[1970, 4567]	5231	[6225, 1559]	7272	[7704, 4707]
1150	[2035, 2036]	3191	[4616, 2365]	5232	[6345, 1083]	7273	[4131, 4417]
1151	[2037, 2038]	3192	[4617, 4618]	5233	[6346, 1321]	7274	[7705, 758]
1152	[725, 2039]	3193	[4619, 2363]	5234	[3718, 6347]	7275	[539, 7131]
1153	[2040, 2041]	3194	[4620, 4621]	5235	[6348, 5785]	7276	[7706, 4962]
1154	[2042, 2043]	3195	[611, 224]	5236	[1445, 1563]	7277	[7707, 6964]
1155	[2044, 1806]	3196	[4622, 2568]	5237	[3698, 3528]	7278	[7708, 2621]
1156	[2045, 2046]	3197	[2458, 2253]	5238	[6349, 5943]	7279	[192, 668]
1157	[2047, 2048]	3198	[1719, 541]	5239	[6350, 3011]	7280	[7709, 7082]
1158	[2049, 1942]	3199	[4354, 1660]	5240	[6351, 3737]	7281	[7710, 5221]
1159	[2050, 2038]	3200	[4623, 1692]	5241	[6352, 950]	7282	[7711, 4451]
1160	[2051, 2052]	3201	[4624, 4625]	5242	[6353, 3779]	7283	[7712, 2264]
1161	[2053, 2054]	3202	[4626, 4627]	5243	[6354, 2812]	7284	[7713, 6468]
1162	[2055, 2056]	3203	[4628, 166]	5244	[6355, 1077]	7285	[7714, 5150]
1163	[2057, 2058]	3204	[1956, 4629]	5245	[3126, 5960]	7286	[1942, 2195]
1164	[2059, 57]	3205	[1738, 4630]	5246	[3046, 5472]	7287	[4219, 4740]
1165	[2060, 150]	3206	[4631, 4357]	5247	[5630, 3745]	7288	[494, 191]
1166	[2061, 2062]	3207	[4632, 1995]	5248	[6356, 3299]	7289	[1819, 2106]
1167	[2063, 2064]	3208	[222, 2041]	5249	[6357, 3486]	7290	[42, 2511]
1168	[2065, 2066]	3209	[4633, 4497]	5250	[6358, 974]	7291	[7715, 32]
1169	[2067, 1917]	3210	[751, 2064]	5251	[6359, 3536]	7292	[7716, 4016]

1170	[2068, 2069]	3211	[4634, 2278]	5252	[6360, 3466]	7293	[7717, 2429]
1171	[2070, 2071]	3212	[4027, 568]	5253	[6361, 5586]	7294	[7718, 6431]
1172	[2072, 2073]	3213	[4635, 1689]	5254	[919, 6331]	7295	[4171, 4037]
1173	[2074, 1796]	3214	[4636, 2385]	5255	[6362, 69]	7296	[7719, 1744]
1174	[2075, 2076]	3215	[4637, 2352]	5256	[3092, 933]	7297	[4046, 3998]
1175	[2077, 2078]	3216	[2046, 4178]	5257	[6363, 2691]	7298	[2467, 5034]
1176	[2079, 2080]	3217	[4638, 4639]	5258	[5972, 2797]	7299	[1742, 5061]
1177	[1688, 2081]	3218	[4640, 1702]	5259	[6364, 1425]	7300	[1761, 6908]
1178	[2082, 1599]	3219	[4641, 547]	5260	[6365, 3340]	7301	[7720, 1699]
1179	[2083, 2084]	3220	[4642, 4530]	5261	[6366, 5574]	7302	[5186, 4896]
1180	[2085, 2086]	3221	[4643, 1865]	5262	[2999, 3336]	7303	[7721, 2403]
1181	[496, 2087]	3222	[4644, 1856]	5263	[6367, 1507]	7304	[1937, 4343]
1182	[2088, 2089]	3223	[4645, 2018]	5264	[6368, 1509]	7305	[719, 7722]
1183	[194, 864]	3224	[4646, 4647]	5265	[5355, 67]	7306	[4829, 7090]
1184	[2090, 2014]	3225	[4648, 466]	5266	[6369, 3050]	7307	[7723, 6443]
1185	[2091, 750]	3226	[4649, 4168]	5267	[6370, 3341]	7308	[7724, 4492]
1186	[2092, 197]	3227	[798, 4650]	5268	[2819, 5747]	7309	[6465, 6824]
1187	[2093, 2094]	3228	[2554, 1964]	5269	[6371, 3887]	7310	[7725, 4644]
1188	[2095, 641]	3229	[169, 4452]	5270	[6372, 2636]	7311	[2612, 1834]
1189	[2096, 2035]	3230	[4651, 599]	5271	[6373, 1563]	7312	[6449, 4536]
1190	[2097, 1978]	3231	[4652, 2257]	5272	[1536, 3651]	7313	[4530, 6867]
1191	[2098, 2099]	3232	[4653, 502]	5273	[1284, 2950]	7314	[5142, 6541]
1192	[2100, 1745]	3233	[836, 749]	5274	[273, 5797]	7315	[4168, 6841]
1193	[2101, 2102]	3234	[4654, 4655]	5275	[6374, 6069]	7316	[7726, 7683]
1194	[2103, 2104]	3235	[1811, 4656]	5276	[6375, 1452]	7317	[7727, 160]
1195	[2105, 2106]	3236	[4657, 496]	5277	[452, 2900]	7318	[6772, 801]
1196	[2107, 2108]	3237	[4123, 1901]	5278	[6376, 5708]	7319	[7728, 6448]
1197	[2109, 2110]	3238	[4658, 2190]	5279	[6377, 3635]	7320	[5006, 2143]
1198	[2111, 2112]	3239	[4659, 2133]	5280	[6378, 5492]	7321	[7729, 4131]
1199	[2113, 2114]	3240	[4660, 1866]	5281	[6379, 3619]	7322	[6868, 6630]
1200	[2115, 2020]	3241	[4661, 4662]	5282	[6380, 5750]	7323	[7730, 7731]
1201	[2116, 2117]	3242	[634, 4663]	5283	[6381, 407]	7324	[7732, 1704]
1202	[2118, 2119]	3243	[232, 4664]	5284	[3705, 6114]	7325	[7733, 1899]
1203	[2120, 1881]	3244	[4665, 4666]	5285	[6382, 1324]	7326	[2396, 4425]
1204	[2121, 2122]	3245	[4667, 2416]	5286	[100, 1183]	7327	[5071, 4269]
1205	[2123, 2124]	3246	[4668, 4664]	5287	[6383, 1261]	7328	[2062, 6491]
1206	[2125, 1975]	3247	[4669, 4011]	5288	[2911, 6292]	7329	[7734, 4161]
1207	[2126, 2127]	3248	[553, 4670]	5289	[6098, 2822]	7330	[2500, 4517]
1208	[2128, 1617]	3249	[4671, 4672]	5290	[6384, 6318]	7331	[7142, 2509]
1209	[2129, 2130]	3250	[4673, 2408]	5291	[6385, 5877]	7332	[7679, 6500]
1210	[2131, 1582]	3251	[4674, 814]	5292	[6386, 3813]	7333	[746, 709]
1211	[2132, 2133]	3252	[4675, 2597]	5293	[6387, 5515]	7334	[7735, 1728]
1212	[2134, 2135]	3253	[2524, 4676]	5294	[966, 5673]	7335	[7736, 4766]
1213	[2136, 2137]	3254	[4552, 4677]	5295	[6388, 1045]	7336	[7737, 2276]

1214	[2138, 2139]	3255	[4678, 2080]	5296	[6389, 6390]	7337	[7738, 2505]
1215	[1903, 2140]	3256	[2213, 1691]	5297	[6391, 3727]	7338	[6756, 6691]
1216	[2141, 2142]	3257	[2215, 4679]	5298	[3611, 3905]	7339	[7739, 1573]
1217	[2143, 2144]	3258	[4680, 4681]	5299	[3508, 5984]	7340	[7740, 6795]
1218	[2145, 2146]	3259	[4682, 689]	5300	[6392, 1025]	7341	[7741, 6589]
1219	[2147, 654]	3260	[4683, 214]	5301	[6393, 3722]	7342	[7742, 842]
1220	[2148, 1616]	3261	[4684, 4685]	5302	[6394, 2695]	7343	[7743, 801]
1221	[473, 2149]	3262	[4686, 2207]	5303	[3375, 3629]	7344	[4191, 7731]
1222	[1813, 2150]	3263	[4325, 1610]	5304	[6395, 5722]	7345	[6898, 660]
1223	[2151, 2152]	3264	[4687, 4688]	5305	[6396, 1165]	7346	[2449, 4863]
1224	[1909, 2153]	3265	[4689, 4690]	5306	[6397, 2869]	7347	[781, 6828]
1225	[2154, 702]	3266	[1574, 4414]	5307	[6398, 452]	7348	[7744, 2273]
1226	[2155, 499]	3267	[4691, 4692]	5308	[6399, 2898]	7349	[52, 4618]
1227	[2156, 501]	3268	[4693, 2360]	5309	[6400, 3037]	7350	[4582, 785]
1228	[1883, 2157]	3269	[4694, 1828]	5310	[6401, 6137]	7351	[7745, 4018]
1229	[2158, 2159]	3270	[1901, 4695]	5311	[6402, 5635]	7352	[4197, 4657]
1230	[2160, 2161]	3271	[672, 1730]	5312	[6403, 5691]	7353	[7746, 7680]
1231	[2162, 2163]	3272	[4696, 1975]	5313	[6114, 6038]	7354	[2294, 4033]
1232	[2164, 208]	3273	[128, 4697]	5314	[6404, 1034]	7355	[7747, 1862]
1233	[2165, 1795]	3274	[218, 2319]	5315	[6405, 67]	7356	[7748, 2228]
1234	[2166, 2167]	3275	[4698, 4699]	5316	[3268, 5379]	7357	[5260, 6781]
1235	[2168, 2169]	3276	[4329, 2053]	5317	[5564, 104]	7358	[7749, 4244]
1236	[2170, 2171]	3277	[4700, 534]	5318	[6406, 78]	7359	[1995, 5039]
1237	[1816, 2070]	3278	[4701, 4702]	5319	[6407, 3161]	7360	[7750, 5071]
1238	[2172, 673]	3279	[2102, 2172]	5320	[6408, 5491]	7361	[62, 6764]
1239	[2173, 2174]	3280	[4703, 2503]	5321	[6409, 282]	7362	[7751, 4955]
1240	[2175, 2176]	3281	[3990, 4053]	5322	[6410, 5379]	7363	[4234, 7057]
1241	[2177, 2178]	3282	[4704, 601]	5323	[6411, 1123]	7364	[7752, 4901]
1242	[2179, 2180]	3283	[2269, 4705]	5324	[6412, 915]	7365	[2465, 4511]
1243	[2181, 2157]	3284	[4706, 4029]	5325	[6413, 899]	7366	[7753, 4798]
1244	[856, 207]	3285	[4017, 1925]	5326	[6414, 3000]	7367	[7754, 4975]
1245	[2182, 2183]	3286	[4707, 4185]	5327	[3983, 1118]	7368	[7755, 5251]
1246	[2184, 1693]	3287	[4708, 2483]	5328	[5549, 3483]	7369	[7756, 6860]
1247	[2185, 2186]	3288	[4709, 1768]	5329	[922, 5554]	7370	[792, 6896]
1248	[212, 800]	3289	[4710, 1812]	5330	[6415, 3272]	7371	[7757, 6462]
1249	[2187, 506]	3290	[4711, 2148]	5331	[6416, 6417]	7372	[6793, 4785]
1250	[2188, 2189]	3291	[4712, 2554]	5332	[6418, 1542]	7373	[7758, 7009]
1251	[2190, 2191]	3292	[4713, 589]	5333	[3920, 962]	7374	[7759, 4194]
1252	[1921, 2192]	3293	[4629, 4714]	5334	[6419, 2799]	7375	[7760, 2413]
1253	[2193, 763]	3294	[4715, 1663]	5335	[352, 5776]	7376	[7761, 4677]
1254	[2194, 1716]	3295	[147, 1602]	5336	[6420, 275]	7377	[7762, 4807]
1255	[2195, 2196]	3296	[2002, 4539]	5337	[5468, 329]	7378	[7763, 4214]
1256	[601, 2057]	3297	[4716, 4717]	5338	[3137, 92]	7379	[1769, 202]
1257	[2197, 1642]	3298	[4718, 4719]	5339	[5652, 2842]	7380	[2593, 6665]

1258	[2198, 2199]	3299	[595, 3993]	5340	[6421, 3456]	7381	[7764, 6540]
1259	[2200, 2201]	3300	[2514, 4720]	5341	[3851, 2761]	7382	[161, 4364]
1260	[1675, 775]	3301	[4721, 2023]	5342	[6422, 6040]	7383	[7765, 2577]
1261	[2202, 2203]	3302	[132, 4722]	5343	[2901, 3932]	7384	[7766, 4969]
1262	[2204, 2205]	3303	[4723, 544]	5344	[6081, 3508]	7385	[7767, 2193]
1263	[2206, 2207]	3304	[4724, 4725]	5345	[6423, 3756]	7386	[7768, 7755]
1264	[2208, 838]	3305	[689, 4726]	5346	[6424, 5087]	7387	[7769, 1605]
1265	[2209, 2210]	3306	[4727, 4262]	5347	[6425, 2027]	7388	[7770, 1766]
1266	[2211, 2212]	3307	[1600, 2302]	5348	[2176, 170]	7389	[7771, 4582]
1267	[574, 2213]	3308	[4728, 2317]	5349	[6426, 2378]	7390	[7772, 716]
1268	[2214, 2215]	3309	[2025, 4729]	5350	[6427, 4022]	7391	[4532, 1573]
1269	[2216, 2217]	3310	[2034, 4108]	5351	[2489, 2210]	7392	[7773, 2542]
1270	[2218, 2219]	3311	[4106, 4346]	5352	[6428, 657]	7393	[7774, 5072]
1271	[2220, 658]	3312	[2224, 4730]	5353	[6429, 4819]	7394	[7775, 4778]
1272	[1872, 1604]	3313	[4525, 31]	5354	[6430, 4907]	7395	[7776, 4849]
1273	[2221, 2222]	3314	[4731, 1931]	5355	[5267, 1828]	7396	[4120, 651]
1274	[2223, 2224]	3315	[4732, 1586]	5356	[1767, 4130]	7397	[7777, 7778]
1275	[179, 2225]	3316	[4733, 4734]	5357	[2625, 6431]	7398	[7779, 499]
1276	[2226, 613]	3317	[4735, 1614]	5358	[6432, 603]	7399	[7780, 1878]
1277	[2227, 1840]	3318	[4627, 632]	5359	[6433, 1721]	7400	[5003, 822]
1278	[2228, 2229]	3319	[4736, 4737]	5360	[6434, 4065]	7401	[7781, 7009]
1279	[2230, 2231]	3320	[2407, 2325]	5361	[6435, 4708]	7402	[6608, 4161]
1280	[2232, 1702]	3321	[4738, 4739]	5362	[6436, 2004]	7403	[7782, 198]
1281	[2233, 10]	3322	[4740, 4741]	5363	[1831, 6437]	7404	[7783, 5092]
1282	[2234, 2235]	3323	[4742, 4730]	5364	[6438, 4976]	7405	[7683, 4205]
1283	[2236, 528]	3324	[4743, 491]	5365	[1977, 5331]	7406	[7784, 6804]
1284	[2237, 2238]	3325	[4744, 493]	5366	[6439, 6440]	7407	[4459, 812]
1285	[2239, 2240]	3326	[4745, 4746]	5367	[6441, 4035]	7408	[7785, 4631]
1286	[2241, 1860]	3327	[4747, 4300]	5368	[6442, 1974]	7409	[7786, 2343]
1287	[1787, 2242]	3328	[4748, 4220]	5369	[1698, 1966]	7410	[5177, 2418]
1288	[2243, 2244]	3329	[4749, 4750]	5370	[6443, 2486]	7411	[7787, 6488]
1289	[2245, 834]	3330	[4751, 4334]	5371	[6444, 4821]	7412	[4266, 1816]
1290	[2246, 2247]	3331	[4752, 510]	5372	[6445, 4405]	7413	[4471, 5224]
1291	[1851, 2248]	3332	[4753, 2026]	5373	[6446, 560]	7414	[4494, 1678]
1292	[2249, 1902]	3333	[4754, 765]	5374	[735, 4940]	7415	[2350, 5192]
1293	[2250, 2251]	3334	[2564, 4755]	5375	[6447, 2211]	7416	[7788, 4249]
1294	[2252, 2253]	3335	[4756, 4757]	5376	[6448, 6449]	7417	[7789, 5164]
1295	[2254, 2255]	3336	[4758, 1669]	5377	[6450, 4926]	7418	[7790, 4475]
1296	[2256, 2257]	3337	[4759, 2131]	5378	[6451, 2349]	7419	[7791, 5077]
1297	[2258, 2259]	3338	[4760, 2240]	5379	[4692, 2432]	7420	[5073, 6648]
1298	[2260, 2261]	3339	[4761, 1859]	5380	[6452, 2013]	7421	[7792, 4425]
1299	[2262, 2263]	3340	[4762, 4763]	5381	[6453, 2627]	7422	[6993, 6654]
1300	[190, 2264]	3341	[4764, 227]	5382	[8, 241]	7423	[7793, 4729]
1301	[2169, 2189]	3342	[4765, 474]	5383	[4397, 6448]	7424	[4943, 2254]

1302	[2265, 2266]	3343	[4766, 4767]	5384	[6454, 4117]	7425	[7794, 4437]
1303	[2267, 2268]	3344	[4768, 4089]	5385	[6455, 2494]	7426	[484, 5161]
1304	[200, 2269]	3345	[4769, 4770]	5386	[5291, 5030]	7427	[7795, 6738]
1305	[2270, 2271]	3346	[2371, 1579]	5387	[4066, 6456]	7428	[7796, 5345]
1306	[2272, 2114]	3347	[1620, 758]	5388	[2, 6457]	7429	[7797, 4383]
1307	[2273, 2274]	3348	[4771, 4772]	5389	[6458, 5210]	7430	[1866, 1896]
1308	[2275, 1580]	3349	[4773, 853]	5390	[6459, 5224]	7431	[7798, 6541]
1309	[2276, 598]	3350	[2086, 4563]	5391	[6460, 2419]	7432	[4149, 4523]
1310	[2277, 2278]	3351	[813, 4774]	5392	[6461, 2219]	7433	[6491, 7799]
1311	[2279, 2280]	3352	[4775, 575]	5393	[6462, 2025]	7434	[7800, 2397]
1312	[2281, 1852]	3353	[2189, 2560]	5394	[6463, 6464]	7435	[7801, 2152]
1313	[2282, 2221]	3354	[1751, 4776]	5395	[866, 699]	7436	[7802, 7803]
1314	[2283, 156]	3355	[4777, 766]	5396	[2056, 4011]	7437	[7804, 2411]
1315	[2284, 235]	3356	[4427, 2415]	5397	[1631, 6465]	7438	[7805, 4811]
1316	[2285, 2286]	3357	[4778, 4633]	5398	[6466, 4666]	7439	[4563, 4627]
1317	[2287, 2258]	3358	[4779, 4780]	5399	[1931, 4707]	7440	[7806, 2225]
1318	[2288, 2289]	3359	[4781, 58]	5400	[2122, 4152]	7441	[756, 7120]
1319	[2290, 186]	3360	[4782, 1600]	5401	[6467, 1734]	7442	[4757, 1680]
1320	[2291, 2259]	3361	[802, 4734]	5402	[4506, 6468]	7443	[4830, 1624]
1321	[2292, 1864]	3362	[4783, 4484]	5403	[4062, 4311]	7444	[2235, 5217]
1322	[2293, 2294]	3363	[4784, 4785]	5404	[6469, 6470]	7445	[794, 4444]
1323	[2295, 524]	3364	[4786, 4787]	5405	[6471, 1810]	7446	[7807, 1646]
1324	[2296, 2297]	3365	[4193, 804]	5406	[6472, 4572]	7447	[4022, 5270]
1325	[2298, 2104]	3366	[4788, 4311]	5407	[4480, 190]	7448	[7808, 6550]
1326	[2299, 2300]	3367	[2576, 4491]	5408	[6473, 4464]	7449	[7809, 4225]
1327	[2301, 2302]	3368	[2591, 4789]	5409	[4647, 4398]	7450	[656, 5345]
1328	[2303, 2304]	3369	[867, 2390]	5410	[6474, 1676]	7451	[7810, 4318]
1329	[2305, 2306]	3370	[4790, 4791]	5411	[6475, 4209]	7452	[5012, 2309]
1330	[2201, 646]	3371	[4792, 1705]	5412	[6476, 5286]	7453	[5122, 6440]
1331	[2307, 137]	3372	[4793, 1595]	5413	[6477, 1912]	7454	[7811, 6656]
1332	[2308, 2203]	3373	[4794, 4795]	5414	[2492, 2333]	7455	[7812, 6607]
1333	[2309, 1676]	3374	[4796, 1667]	5415	[6478, 4790]	7456	[7813, 5314]
1334	[2310, 2311]	3375	[721, 790]	5416	[6479, 4760]	7457	[7814, 4217]
1335	[526, 2312]	3376	[4797, 4046]	5417	[4787, 4032]	7458	[6834, 2394]
1336	[2313, 2314]	3377	[4798, 60]	5418	[5090, 2370]	7459	[7815, 7722]
1337	[2315, 1941]	3378	[4799, 4338]	5419	[6480, 2604]	7460	[710, 2620]
1338	[2316, 2287]	3379	[4800, 4233]	5420	[1582, 498]	7461	[7722, 515]
1339	[1713, 2317]	3380	[4801, 4802]	5421	[2130, 4135]	7462	[7816, 712]
1340	[2318, 2319]	3381	[4803, 1640]	5422	[4356, 2438]	7463	[4094, 2145]
1341	[2320, 2321]	3382	[4347, 4804]	5423	[6481, 4061]	7464	[2542, 4635]
1342	[235, 2322]	3383	[4805, 4412]	5424	[6482, 5086]	7465	[4297, 1830]
1343	[2323, 2324]	3384	[4806, 1952]	5425	[6483, 4272]	7466	[4284, 4816]
1344	[2325, 2326]	3385	[4807, 1593]	5426	[6484, 1834]	7467	[4520, 743]
1345	[1822, 2327]	3386	[4808, 4133]	5427	[4746, 550]	7468	[7817, 5296]

1346	[2328, 2329]	3387	[4809, 4810]	5428	[6485, 6486]	7469	[7818, 7819]
1347	[2330, 2331]	3388	[1765, 2006]	5429	[1849, 1940]	7470	[7820, 2457]
1348	[2332, 703]	3389	[2586, 560]	5430	[6487, 4919]	7471	[7821, 7781]
1349	[2333, 684]	3390	[4811, 1666]	5431	[2171, 4811]	7472	[1793, 211]
1350	[2334, 500]	3391	[4812, 1648]	5432	[6488, 1961]	7473	[2161, 688]
1351	[2335, 527]	3392	[4813, 751]	5433	[6489, 4981]	7474	[4410, 7822]
1352	[2336, 2274]	3393	[4814, 2513]	5434	[6490, 6491]	7475	[1709, 5174]
1353	[2337, 747]	3394	[4815, 2298]	5435	[4118, 529]	7476	[5203, 4878]
1354	[2338, 2339]	3395	[4816, 4750]	5436	[6492, 2145]	7477	[500, 4870]
1355	[2340, 2341]	3396	[757, 2306]	5437	[6493, 4685]	7478	[7031, 6676]
1356	[2342, 243]	3397	[4817, 570]	5438	[6494, 559]	7479	[4763, 12]
1357	[2343, 829]	3398	[4818, 4819]	5439	[788, 4737]	7480	[7823, 4544]
1358	[537, 1867]	3399	[4820, 4304]	5440	[6495, 5028]	7481	[7824, 7142]
1359	[2344, 2345]	3400	[4821, 2298]	5441	[6496, 3999]	7482	[1646, 4233]
1360	[2346, 2347]	3401	[4822, 199]	5442	[4052, 1853]	7483	[7825, 1708]
1361	[2348, 41]	3402	[4823, 4824]	5443	[2347, 1838]	7484	[7826, 6972]
1362	[2349, 2350]	3403	[4825, 2498]	5444	[6497, 6498]	7485	[7827, 2195]
1363	[2351, 714]	3404	[4826, 2470]	5445	[6499, 6500]	7486	[7828, 6810]
1364	[2352, 2353]	3405	[4232, 4827]	5446	[2196, 4721]	7487	[7829, 7153]
1365	[2354, 2355]	3406	[4828, 4829]	5447	[650, 6501]	7488	[6983, 2052]
1366	[2356, 2357]	3407	[2302, 4502]	5448	[2071, 4790]	7489	[1740, 1945]
1367	[691, 34]	3408	[4151, 4830]	5449	[6502, 35]	7490	[2306, 7830]
1368	[2358, 2359]	3409	[4274, 4831]	5450	[2314, 1923]	7491	[5036, 4541]
1369	[2360, 2361]	3410	[796, 1598]	5451	[1870, 2116]	7492	[7831, 6639]
1370	[2362, 2121]	3411	[4832, 4833]	5452	[6503, 1777]	7493	[7832, 7183]
1371	[2084, 2363]	3412	[1629, 4834]	5453	[530, 6504]	7494	[1648, 4825]
1372	[2364, 2365]	3413	[4835, 2378]	5454	[6505, 6504]	7495	[1609, 4988]
1373	[2366, 2367]	3414	[4836, 4094]	5455	[6506, 1775]	7496	[1749, 6734]
1374	[2078, 2368]	3415	[4574, 134]	5456	[6507, 1776]	7497	[4664, 4316]
1375	[2369, 2191]	3416	[4576, 1572]	5457	[6508, 4804]	7498	[615, 6819]
1376	[2370, 2371]	3417	[4837, 2205]	5458	[1777, 4802]	7499	[4475, 4773]
1377	[2183, 1999]	3418	[4838, 4839]	5459	[6509, 4109]	7500	[1584, 7778]
1378	[2372, 2373]	3419	[4840, 611]	5460	[1637, 486]	7501	[4240, 4244]
1379	[490, 2374]	3420	[4841, 1588]	5461	[4117, 2089]	7502	[5000, 806]
1380	[2311, 2375]	3421	[4842, 4843]	5462	[6510, 1613]	7503	[7833, 2372]
1381	[2376, 2377]	3422	[508, 1647]	5463	[605, 4219]	7504	[2242, 2472]
1382	[2378, 769]	3423	[4844, 539]	5464	[609, 6511]	7505	[7834, 7120]
1383	[2379, 2380]	3424	[4845, 854]	5465	[6512, 6513]	7506	[7835, 2258]
1384	[2381, 813]	3425	[4846, 521]	5466	[6514, 138]	7507	[7836, 6817]
1385	[2382, 2122]	3426	[4847, 4201]	5467	[6515, 2149]	7508	[4069, 7160]
1386	[2383, 2352]	3427	[4848, 2151]	5468	[6516, 856]	7509	[7837, 5219]
1387	[1728, 2384]	3428	[471, 4849]	5469	[6517, 5244]	7510	[7838, 4216]
1388	[1663, 2385]	3429	[4850, 530]	5470	[6518, 2491]	7511	[7839, 6883]
1389	[2386, 2124]	3430	[2477, 4159]	5471	[6519, 4719]	7512	[7840, 4809]

1390	[2387, 2372]	3431	[4851, 2551]	5472	[6520, 4327]	7513	[7841, 517]
1391	[2388, 727]	3432	[625, 4120]	5473	[860, 2141]	7514	[4588, 6928]
1392	[2389, 2390]	3433	[4852, 4192]	5474	[4164, 5135]	7515	[2266, 2621]
1393	[2391, 2013]	3434	[4853, 4854]	5475	[6521, 6522]	7516	[6522, 2575]
1394	[567, 663]	3435	[4855, 4856]	5476	[687, 2357]	7517	[7842, 6983]
1395	[2392, 1660]	3436	[4464, 1840]	5477	[6523, 4296]	7518	[6873, 6879]
1396	[2393, 2346]	3437	[4857, 853]	5478	[6524, 5004]	7519	[7843, 793]
1397	[2394, 2112]	3438	[4858, 1570]	5479	[6525, 2229]	7520	[1905, 5305]
1398	[2395, 2396]	3439	[4859, 4699]	5480	[6526, 515]	7521	[769, 6458]
1399	[2397, 2398]	3440	[4055, 4860]	5481	[6527, 4066]	7522	[7844, 7822]
1400	[2399, 2400]	3441	[4861, 1893]	5482	[6528, 4008]	7523	[7845, 4988]
1401	[2017, 1739]	3442	[4448, 4416]	5483	[4717, 4463]	7524	[7846, 2309]
1402	[2401, 2402]	3443	[4862, 4863]	5484	[6529, 2423]	7525	[7847, 4266]
1403	[2373, 2296]	3444	[4864, 1994]	5485	[6530, 2404]	7526	[7848, 4670]
1404	[2403, 2404]	3445	[4865, 4291]	5486	[1627, 4461]	7527	[7849, 176]
1405	[2405, 2387]	3446	[4866, 4867]	5487	[6531, 2000]	7528	[7850, 5095]
1406	[2406, 2407]	3447	[4384, 2206]	5488	[4343, 4963]	7529	[7851, 4805]
1407	[2408, 2388]	3448	[4396, 182]	5489	[6532, 5118]	7530	[7852, 4071]
1408	[2409, 2172]	3449	[4868, 585]	5490	[1608, 2517]	7531	[7853, 5331]
1409	[2410, 546]	3450	[4869, 4870]	5491	[6533, 2347]	7532	[4101, 5320]
1410	[2411, 2280]	3451	[4871, 494]	5492	[1930, 2026]	7533	[2317, 7854]
1411	[2412, 2413]	3452	[1806, 4872]	5493	[6534, 2138]	7534	[4962, 4534]
1412	[2414, 2415]	3453	[522, 2017]	5494	[6535, 2271]	7535	[2531, 6880]
1413	[2416, 2417]	3454	[4873, 4313]	5495	[6536, 1926]	7536	[10, 7086]
1414	[2418, 2419]	3455	[4874, 1909]	5496	[6537, 4185]	7537	[7855, 2098]
1415	[2420, 155]	3456	[4178, 4076]	5497	[6538, 1687]	7538	[5113, 7781]
1416	[2421, 504]	3457	[4875, 1712]	5498	[6539, 4297]	7539	[7856, 4340]
1417	[2422, 2423]	3458	[2150, 1674]	5499	[6540, 582]	7540	[7857, 6600]
1418	[2424, 1749]	3459	[4795, 2086]	5500	[6541, 1619]	7541	[7858, 5003]
1419	[2425, 2426]	3460	[4876, 2148]	5501	[6542, 6543]	7542	[524, 6452]
1420	[2427, 2251]	3461	[4877, 4878]	5502	[2526, 618]	7543	[1591, 6543]
1421	[1827, 2428]	3462	[4879, 1579]	5503	[6544, 151]	7544	[4613, 717]
1422	[664, 2429]	3463	[4880, 4479]	5504	[6545, 6546]	7545	[220, 130]
1423	[2430, 1757]	3464	[4881, 1680]	5505	[6547, 4763]	7546	[7859, 4697]
1424	[2431, 2054]	3465	[4380, 1687]	5506	[6548, 5157]	7547	[7860, 2077]
1425	[2432, 2433]	3466	[228, 4605]	5507	[6549, 6550]	7548	[5232, 6540]
1426	[2434, 2435]	3467	[4882, 4232]	5508	[6551, 4725]	7549	[2385, 2232]
1427	[2436, 1953]	3468	[4883, 2350]	5509	[198, 2083]	7550	[237, 620]
1428	[2437, 2438]	3469	[3988, 2468]	5510	[1917, 4654]	7551	[4940, 4429]
1429	[2439, 2010]	3470	[4884, 1620]	5511	[6552, 4657]	7552	[7861, 2007]
1430	[2440, 2011]	3471	[4885, 4213]	5512	[6553, 4123]	7553	[7862, 5235]
1431	[2441, 2442]	3472	[2331, 2606]	5513	[6554, 2083]	7554	[7863, 6654]
1432	[2443, 2444]	3473	[4886, 4887]	5514	[2119, 4326]	7555	[4121, 1628]
1433	[2445, 2446]	3474	[4888, 573]	5515	[6555, 4292]	7556	[7864, 7158]

1434	[2447, 2218]	3475	[2186, 4867]	5516	[6556, 1633]	7557	[7865, 2187]
1435	[2448, 2449]	3476	[4889, 4890]	5517	[1723, 4900]	7558	[7866, 2156]
1436	[2450, 2451]	3477	[4891, 728]	5518	[4334, 4446]	7559	[2521, 6768]
1437	[1617, 2452]	3478	[4566, 1823]	5519	[4412, 4144]	7560	[576, 6462]
1438	[2453, 2417]	3479	[4892, 2560]	5520	[4618, 5323]	7561	[7867, 2087]
1439	[2454, 1966]	3480	[2321, 4893]	5521	[6557, 5073]	7562	[4872, 2020]
1440	[2455, 2456]	3481	[4894, 4895]	5522	[6558, 6559]	7563	[7868, 4963]
1441	[2457, 2458]	3482	[4896, 4897]	5523	[6560, 1726]	7564	[2423, 724]
1442	[2459, 565]	3483	[4898, 2518]	5524	[679, 4386]	7565	[7869, 6674]
1443	[2460, 2353]	3484	[4899, 2119]	5525	[6561, 738]	7566	[6559, 4230]
1444	[2461, 2462]	3485	[2508, 1883]	5526	[6562, 2434]	7567	[7819, 5079]
1445	[2297, 2463]	3486	[4900, 1586]	5527	[6563, 4561]	7568	[2345, 6883]
1446	[2464, 2465]	3487	[4901, 2224]	5528	[1580, 1719]	7569	[7870, 5190]
1447	[2466, 2467]	3488	[46, 4525]	5529	[1989, 5044]	7570	[1757, 6849]
1448	[648, 1697]	3489	[4474, 4783]	5530	[6564, 518]	7571	[4315, 2200]
1449	[2468, 2360]	3490	[4902, 4696]	5531	[1783, 5113]	7572	[7871, 4247]
1450	[2469, 2470]	3491	[4903, 192]	5532	[1785, 2310]	7573	[4997, 7031]
1451	[2471, 42]	3492	[4904, 1661]	5533	[4144, 5182]	7574	[7872, 742]
1452	[2472, 1983]	3493	[4905, 2285]	5534	[6565, 4042]	7575	[4625, 5126]
1453	[2473, 1981]	3494	[4906, 4656]	5535	[6566, 6567]	7576	[1673, 7058]
1454	[2474, 2475]	3495	[469, 4065]	5536	[6568, 5120]	7577	[7873, 4724]
1455	[2476, 2477]	3496	[1681, 4907]	5537	[6569, 6570]	7578	[4250, 4976]
1456	[2478, 2479]	3497	[4908, 4830]	5538	[6571, 835]	7579	[7874, 4755]
1457	[2480, 2144]	3498	[4770, 714]	5539	[6572, 6573]	7580	[4299, 2344]
1458	[2481, 2482]	3499	[2069, 4546]	5540	[4025, 1714]	7581	[2192, 4601]
1459	[2483, 2367]	3500	[4909, 4910]	5541	[6574, 1574]	7582	[7875, 2539]
1460	[2484, 2262]	3501	[4911, 4912]	5542	[6575, 4030]	7583	[4438, 1701]
1461	[2485, 2486]	3502	[4913, 4494]	5543	[6576, 6577]	7584	[7876, 1984]
1462	[2487, 1685]	3503	[4914, 509]	5544	[6578, 2320]	7585	[7877, 5109]
1463	[759, 1852]	3504	[4915, 1875]	5545	[6579, 672]	7586	[7878, 2202]
1464	[2488, 2489]	3505	[4916, 4917]	5546	[2580, 4531]	7587	[7879, 4826]
1465	[2490, 682]	3506	[4918, 4032]	5547	[6580, 1698]	7588	[7880, 6811]
1466	[2491, 2492]	3507	[1797, 4919]	5548	[4449, 4890]	7589	[230, 5293]
1467	[2493, 2400]	3508	[520, 4093]	5549	[2367, 2377]	7590	[1690, 5189]
1468	[2494, 2495]	3509	[12, 4920]	5550	[4495, 4625]	7591	[7881, 4051]
1469	[518, 2496]	3510	[4089, 1970]	5551	[4981, 1652]	7592	[7882, 4980]
1470	[2497, 2498]	3511	[4921, 2113]	5552	[6581, 754]	7593	[6590, 4846]
1471	[2499, 2500]	3512	[4922, 2492]	5553	[6582, 4358]	7594	[7883, 721]
1472	[565, 2501]	3513	[4923, 1905]	5554	[6583, 1861]	7595	[4247, 5092]
1473	[2502, 2269]	3514	[4924, 4492]	5555	[6584, 4818]	7596	[7884, 4674]
1474	[2503, 2504]	3515	[4925, 1742]	5556	[6585, 1622]	7597	[7885, 2442]
1475	[2505, 2506]	3516	[4282, 2267]	5557	[1578, 2161]	7598	[7886, 6625]
1476	[2507, 2508]	3517	[4488, 4926]	5558	[2529, 842]	7599	[7887, 5019]
1477	[2509, 2396]	3518	[3999, 1862]	5559	[5326, 5221]	7600	[7888, 4511]

1478	[2510, 2511]	3519	[4927, 4369]	5560	[4839, 770]	7601	[767, 222]
1479	[2512, 1835]	3520	[4928, 849]	5561	[4433, 4216]	7602	[5342, 4805]
1480	[2513, 2514]	3521	[4929, 4039]	5562	[6586, 627]	7603	[6550, 4674]
1481	[2515, 2516]	3522	[4930, 2482]	5563	[6587, 2606]	7604	[7889, 7008]
1482	[2517, 2518]	3523	[1572, 4621]	5564	[5277, 1741]	7605	[7890, 6449]
1483	[2519, 1741]	3524	[4931, 1849]	5565	[1685, 4780]	7606	[7891, 6556]
1484	[2520, 2521]	3525	[4932, 810]	5566	[188, 2579]	7607	[7892, 2558]
1485	[2522, 2139]	3526	[175, 4933]	5567	[2257, 4943]	7608	[4580, 809]
1486	[2523, 2524]	3527	[4934, 4708]	5568	[6588, 1594]	7609	[7893, 532]
1487	[2525, 720]	3528	[4935, 580]	5569	[6589, 4478]	7610	[2568, 2547]
1488	[1671, 2526]	3529	[4774, 4474]	5570	[1962, 6590]	7611	[7894, 2592]
1489	[2527, 2528]	3530	[4936, 4937]	5571	[730, 2307]	7612	[2104, 2588]
1490	[2247, 2529]	3531	[4938, 4064]	5572	[6591, 4559]	7613	[2589, 4373]
1491	[2530, 2531]	3532	[4939, 4940]	5573	[6592, 5016]	7614	[6715, 6974]
1492	[2532, 2071]	3533	[4941, 4860]	5574	[6593, 574]	7615	[7895, 4470]
1493	[2533, 2534]	3534	[4887, 1614]	5575	[6594, 4689]	7616	[1950, 6605]
1494	[2535, 2536]	3535	[4942, 4943]	5576	[6595, 1713]	7617	[6500, 4684]
1495	[2537, 2538]	3536	[4944, 2499]	5577	[1625, 585]	7618	[7896, 5006]
1496	[2539, 2540]	3537	[4945, 2475]	5578	[6596, 6597]	7619	[7803, 2187]
1497	[2541, 2542]	3538	[4946, 4672]	5579	[2326, 176]	7620	[6711, 6667]
1498	[2543, 837]	3539	[4947, 4948]	5580	[2419, 6546]	7621	[7897, 4591]
1499	[1683, 2544]	3540	[4949, 2552]	5581	[6598, 6437]	7622	[7898, 1980]
1500	[2545, 1590]	3541	[4950, 4924]	5582	[4810, 483]	7623	[7899, 6880]
1501	[2304, 2174]	3542	[4951, 2081]	5583	[2400, 6599]	7624	[7900, 2143]
1502	[2546, 1631]	3543	[4952, 4953]	5584	[2043, 6600]	7625	[2540, 4997]
1503	[2547, 1725]	3544	[4954, 605]	5585	[6601, 2611]	7626	[7901, 2394]
1504	[2548, 2549]	3545	[4955, 4404]	5586	[1788, 469]	7627	[7902, 7055]
1505	[2550, 841]	3546	[4956, 4783]	5587	[6602, 6603]	7628	[1753, 4501]
1506	[662, 2551]	3547	[4957, 2483]	5588	[6604, 2135]	7629	[2286, 4964]
1507	[2253, 2552]	3548	[4958, 4655]	5589	[6605, 1914]	7630	[7903, 6934]
1508	[2553, 475]	3549	[4959, 128]	5590	[6606, 4435]	7631	[7904, 1973]
1509	[559, 2554]	3550	[2470, 2567]	5591	[6607, 6608]	7632	[5169, 7873]
1510	[2153, 14]	3551	[4960, 2066]	5592	[5028, 4212]	7633	[5045, 7055]
1511	[2555, 2556]	3552	[4961, 776]	5593	[6609, 2198]	7634	[7905, 6665]
1512	[2557, 2142]	3553	[2140, 1819]	5594	[6610, 550]	7635	[7174, 4888]
1513	[2558, 2559]	3554	[1661, 4962]	5595	[6611, 717]	7636	[7906, 534]
1514	[2560, 1890]	3555	[4963, 3990]	5596	[4078, 4980]	7637	[2404, 2610]
1515	[2561, 2562]	3556	[4964, 2287]	5597	[4729, 5169]	7638	[6645, 6597]
1516	[2563, 2564]	3557	[1640, 4112]	5598	[6612, 4236]	7639	[7907, 6649]
1517	[1974, 2565]	3558	[4965, 4965]	5599	[6613, 4220]	7640	[4920, 4467]
1518	[2566, 566]	3559	[4804, 4116]	5600	[4621, 234]	7641	[481, 7040]
1519	[2567, 2568]	3560	[4966, 2304]	5601	[6513, 6613]	7642	[706, 6934]
1520	[2569, 2515]	3561	[4967, 4968]	5602	[6614, 2096]	7643	[7908, 7799]
1521	[2570, 2517]	3562	[4969, 1989]	5603	[6615, 126]	7644	[4755, 1906]

1522	[2571, 773]	3563	[1, 1857]	5604	[6616, 779]	7645	[7909, 7873]
1523	[2572, 2573]	3564	[4970, 207]	5605	[6617, 4162]	7646	[7910, 1655]
1524	[2574, 658]	3565	[4971, 4495]	5606	[6618, 1740]	7647	[2110, 610]
1525	[2575, 2576]	3566	[4972, 1800]	5607	[6619, 6620]	7648	[7911, 7830]
1526	[2146, 2577]	3567	[4973, 2582]	5608	[6621, 1727]	7649	[5848, 5521]
1527	[2578, 1606]	3568	[4974, 4191]	5609	[6622, 679]	7650	[7912, 100]
1528	[2579, 2580]	3569	[4819, 666]	5610	[2475, 6623]	7651	[6390, 5957]
1529	[2581, 2062]	3570	[1820, 1935]	5611	[6624, 5278]	7652	[7913, 3711]
1530	[1898, 2337]	3571	[4975, 855]	5612	[5124, 5015]	7653	[5878, 2965]
1531	[2582, 185]	3572	[4976, 4362]	5613	[4097, 6625]	7654	[1434, 1269]
1532	[2506, 2434]	3573	[4977, 4102]	5614	[6626, 6627]	7655	[7914, 3390]
1533	[2583, 2584]	3574	[4978, 816]	5615	[4186, 4917]	7656	[5962, 1461]
1534	[2585, 2586]	3575	[4722, 4979]	5616	[502, 2050]	7657	[5854, 6242]
1535	[2587, 61]	3576	[4980, 4981]	5617	[6628, 2433]	7658	[5600, 5785]
1536	[2588, 2589]	3577	[4982, 732]	5618	[6629, 6630]	7659	[2721, 5491]
1537	[2590, 2591]	3578	[4983, 4679]	5619	[6631, 4597]	7660	[5451, 5367]
1538	[2592, 2593]	3579	[1585, 4984]	5620	[6632, 2565]	7661	[5384, 6040]
1539	[2594, 2021]	3580	[4985, 4031]	5621	[6633, 4991]	7662	[7915, 5964]
1540	[2595, 48]	3581	[4986, 4125]	5622	[6634, 1968]	7663	[888, 2784]
1541	[2596, 162]	3582	[4987, 184]	5623	[4737, 4024]	7664	[7916, 5782]
1542	[2597, 166]	3583	[2496, 4333]	5624	[514, 2186]	7665	[1120, 5760]
1543	[2598, 764]	3584	[1947, 4258]	5625	[6635, 533]	7666	[7917, 1510]
1544	[144, 738]	3585	[4988, 4989]	5626	[6636, 811]	7667	[7918, 1567]
1545	[2599, 2600]	3586	[4990, 2421]	5627	[6637, 170]	7668	[2747, 5737]
1546	[2601, 2456]	3587	[4176, 4991]	5628	[6638, 6482]	7669	[2694, 3042]
1547	[2602, 2603]	3588	[4180, 1763]	5629	[4188, 4002]	7670	[7919, 3572]
1548	[2604, 2605]	3589	[4551, 2449]	5630	[6639, 537]	7671	[5732, 3348]
1549	[2606, 2061]	3590	[4992, 4112]	5631	[6640, 5275]	7672	[3867, 3344]
1550	[2607, 2608]	3591	[177, 1953]	5632	[6641, 4025]	7673	[1061, 337]
1551	[862, 2609]	3592	[165, 4122]	5633	[6642, 6643]	7674	[7920, 1064]
1552	[2610, 1902]	3593	[723, 824]	5634	[6644, 6645]	7675	[7921, 5867]
1553	[2611, 2612]	3594	[4993, 4854]	5635	[4650, 4382]	7676	[6088, 3451]
1554	[2613, 2001]	3595	[4994, 2095]	5636	[4917, 6646]	7677	[7922, 3398]
1555	[2536, 1992]	3596	[4609, 4995]	5637	[6647, 2263]	7678	[3529, 6107]
1556	[2614, 755]	3597	[708, 1986]	5638	[6648, 4520]	7679	[7923, 334]
1557	[2615, 2288]	3598	[733, 4448]	5639	[6649, 4169]	7680	[7924, 6308]
1558	[2616, 1820]	3599	[4996, 4997]	5640	[6650, 4493]	7681	[7925, 1244]
1559	[2617, 2618]	3600	[4933, 1884]	5641	[504, 2156]	7682	[1484, 2708]
1560	[2619, 2620]	3601	[4998, 1964]	5642	[6651, 4371]	7683	[7926, 5960]
1561	[2621, 2622]	3602	[1924, 4063]	5643	[4725, 4930]	7684	[3429, 1182]
1562	[2623, 1833]	3603	[4999, 1694]	5644	[2001, 5316]	7685	[7927, 3712]
1563	[2624, 2625]	3604	[2438, 5000]	5645	[6652, 5218]	7686	[306, 5381]
1564	[2626, 2199]	3605	[4217, 5001]	5646	[6653, 5316]	7687	[932, 1017]
1565	[704, 2627]	3606	[5002, 616]	5647	[6654, 5019]	7688	[1080, 6329]

1566	[2628, 1787]	3607	[4054, 2183]	5648	[2565, 6451]	7689	[2913, 3724]
1567	[2501, 2629]	3608	[2133, 5003]	5649	[6655, 2384]	7690	[3083, 6393]
1568	[2630, 2631]	3609	[584, 5004]	5650	[6656, 210]	7691	[1003, 1122]
1569	[2632, 2633]	3610	[4142, 4787]	5651	[6657, 6658]	7692	[3290, 3317]
1570	[2634, 2635]	3611	[5005, 2121]	5652	[6659, 4122]	7693	[7928, 2954]
1571	[2636, 1067]	3612	[528, 5006]	5653	[6660, 6661]	7694	[2806, 5938]
1572	[2637, 2638]	3613	[5007, 4009]	5654	[6662, 747]	7695	[5974, 1232]
1573	[2639, 1282]	3614	[5008, 1813]	5655	[6663, 4923]	7696	[7929, 912]
1574	[2640, 2641]	3615	[5009, 5010]	5656	[2495, 6664]	7697	[7930, 895]
1575	[2642, 2643]	3616	[5011, 4831]	5657	[6665, 5010]	7698	[7931, 3067]
1576	[2644, 1183]	3617	[149, 5012]	5658	[6666, 6667]	7699	[102, 369]
1577	[2645, 1084]	3618	[4912, 5013]	5659	[5308, 5277]	7700	[7932, 1416]
1578	[2646, 1168]	3619	[5014, 2556]	5660	[6668, 2612]	7701	[7933, 2778]
1579	[2647, 2648]	3620	[5015, 491]	5661	[6669, 4314]	7702	[124, 5353]
1580	[2649, 2650]	3621	[4705, 555]	5662	[4057, 4380]	7703	[2685, 1311]
1581	[2651, 929]	3622	[5016, 4499]	5663	[6670, 2141]	7704	[7934, 5453]
1582	[2652, 289]	3623	[2603, 2591]	5664	[6671, 4613]	7705	[3303, 3481]
1583	[2653, 2654]	3624	[5017, 232]	5665	[5261, 6656]	7706	[7935, 2968]
1584	[1528, 2655]	3625	[5018, 833]	5666	[6672, 2326]	7707	[2855, 1524]
1585	[402, 2656]	3626	[5019, 5020]	5667	[6673, 5323]	7708	[7936, 6163]
1586	[2657, 2658]	3627	[5021, 191]	5668	[6674, 2175]	7709	[2996, 5410]
1587	[2659, 362]	3628	[5022, 5023]	5669	[6675, 4759]	7710	[7937, 3124]
1588	[2660, 2661]	3629	[5024, 4480]	5670	[6676, 549]	7711	[7938, 3485]
1589	[880, 95]	3630	[2106, 4422]	5671	[6677, 1910]	7712	[7939, 1407]
1590	[2662, 2663]	3631	[5025, 610]	5672	[6678, 4449]	7713	[7940, 1335]
1591	[1501, 2664]	3632	[5026, 1653]	5673	[6679, 558]	7714	[7941, 5461]
1592	[2665, 2666]	3633	[5027, 2459]	5674	[5242, 2380]	7715	[969, 1208]
1593	[2667, 2668]	3634	[726, 2426]	5675	[4856, 6455]	7716	[3283, 354]
1594	[2669, 1265]	3635	[467, 5028]	5676	[6680, 2058]	7717	[7942, 3622]
1595	[78, 2670]	3636	[1759, 4057]	5677	[4750, 1922]	7718	[3414, 2818]
1596	[2671, 1482]	3637	[5029, 4389]	5678	[2058, 5190]	7719	[2813, 2904]
1597	[2672, 2673]	3638	[5030, 2412]	5679	[4497, 6681]	7720	[1089, 5992]
1598	[2674, 2675]	3639	[5031, 4293]	5680	[6682, 2493]	7721	[7943, 3740]
1599	[2676, 248]	3640	[5032, 1662]	5681	[6683, 2260]	7722	[7944, 963]
1600	[2677, 2678]	3641	[5033, 4579]	5682	[6504, 1776]	7723	[7945, 3830]
1601	[1316, 88]	3642	[2004, 2355]	5683	[6684, 4116]	7724	[7946, 408]
1602	[2679, 2680]	3643	[5034, 4354]	5684	[6685, 2622]	7725	[6242, 274]
1603	[1310, 2681]	3644	[5035, 5036]	5685	[6686, 1858]	7726	[5649, 3081]
1604	[2682, 2683]	3645	[5037, 1880]	5686	[6687, 4974]	7727	[418, 312]
1605	[2684, 2685]	3646	[5038, 5039]	5687	[5061, 862]	7728	[5835, 3839]
1606	[1494, 2686]	3647	[5040, 140]	5688	[6688, 651]	7729	[7947, 267]
1607	[2687, 2688]	3648	[2199, 2230]	5689	[1799, 6570]	7730	[5536, 5581]
1608	[2689, 2690]	3649	[5041, 2206]	5690	[6689, 1589]	7731	[7948, 2871]
1609	[955, 2691]	3650	[5042, 4635]	5691	[6690, 5001]	7732	[5418, 66]

1610	[903, 1216]	3651	[5043, 5044]	5692	[6691, 730]	7733	[6237, 1412]
1611	[1496, 2692]	3652	[4697, 4599]	5693	[2327, 1791]	7734	[7949, 3013]
1612	[2693, 2694]	3653	[1841, 2546]	5694	[2117, 4049]	7735	[7950, 3719]
1613	[2695, 2696]	3654	[683, 5045]	5695	[6692, 1965]	7736	[2871, 5718]
1614	[1179, 2697]	3655	[5046, 4817]	5696	[6693, 4012]	7737	[5550, 428]
1615	[2698, 2699]	3656	[5047, 237]	5697	[6694, 6613]	7738	[7951, 6251]
1616	[1565, 2700]	3657	[2462, 4975]	5698	[6695, 6511]	7739	[2918, 2640]
1617	[2701, 2702]	3658	[4258, 4427]	5699	[6696, 4165]	7740	[3101, 5812]
1618	[367, 1294]	3659	[5048, 5049]	5700	[6697, 4335]	7741	[7952, 1297]
1619	[2703, 2704]	3660	[4690, 2445]	5701	[6698, 4846]	7742	[2988, 2867]
1620	[2705, 2706]	3661	[4572, 164]	5702	[6699, 4482]	7743	[7953, 1399]
1621	[2707, 2708]	3662	[5050, 4714]	5703	[563, 691]	7744	[304, 980]
1622	[335, 2709]	3663	[5051, 2285]	5704	[6700, 4853]	7745	[2850, 360]
1623	[2710, 1552]	3664	[5052, 4033]	5705	[6701, 5135]	7746	[5382, 3364]
1624	[2711, 2712]	3665	[2608, 4401]	5706	[6702, 4827]	7747	[3970, 2947]
1625	[2713, 2714]	3666	[5053, 4773]	5707	[6703, 4013]	7748	[7954, 315]
1626	[1260, 1330]	3667	[5054, 4148]	5708	[6704, 2312]	7749	[997, 5543]
1627	[2715, 118]	3668	[5055, 4302]	5709	[6705, 1865]	7750	[7955, 3131]
1628	[2716, 2717]	3669	[1997, 40]	5710	[2066, 4211]	7751	[5887, 3834]
1629	[2718, 2719]	3670	[5056, 1739]	5711	[6706, 4930]	7752	[7956, 3024]
1630	[2720, 2721]	3671	[5057, 4160]	5712	[6707, 4290]	7753	[2897, 119]
1631	[2722, 2723]	3672	[5058, 1838]	5713	[6708, 2101]	7754	[3306, 374]
1632	[2724, 2713]	3673	[5059, 4684]	5714	[6709, 5051]	7755	[7957, 3292]
1633	[2725, 2726]	3674	[5060, 5061]	5715	[6710, 185]	7756	[1078, 920]
1634	[2727, 2728]	3675	[5062, 1788]	5716	[56, 6711]	7757	[7958, 3917]
1635	[2729, 2730]	3676	[5063, 5064]	5717	[6646, 4485]	7758	[7959, 3568]
1636	[2731, 908]	3677	[5065, 4576]	5718	[6712, 1956]	7759	[7960, 2648]
1637	[2732, 2733]	3678	[4454, 761]	5719	[6713, 6677]	7760	[7961, 108]
1638	[2734, 2735]	3679	[4537, 2477]	5720	[6440, 4692]	7761	[7962, 2984]
1639	[2736, 2737]	3680	[5066, 2496]	5721	[6714, 6715]	7762	[3323, 6063]
1640	[2738, 2739]	3681	[5067, 4151]	5722	[4394, 4184]	7763	[5420, 5479]
1641	[2740, 2741]	3682	[5068, 1653]	5723	[6716, 4132]	7764	[7963, 308]
1642	[2742, 2743]	3683	[5069, 5045]	5724	[6717, 1598]	7765	[5933, 269]
1643	[2744, 1251]	3684	[5070, 5071]	5725	[6718, 501]	7766	[2714, 2979]
1644	[2745, 940]	3685	[5072, 5073]	5726	[6719, 4516]	7767	[7964, 2754]
1645	[2746, 2747]	3686	[5074, 4197]	5727	[2390, 2011]	7768	[1017, 1562]
1646	[2748, 2749]	3687	[5075, 567]	5728	[618, 2461]	7769	[6325, 5982]
1647	[948, 2750]	3688	[5076, 5077]	5729	[4907, 778]	7770	[425, 2765]
1648	[950, 2751]	3689	[5078, 5079]	5730	[6627, 2611]	7771	[962, 3201]
1649	[2752, 2753]	3690	[5080, 5081]	5731	[6720, 6721]	7772	[7965, 361]
1650	[2754, 2755]	3691	[5082, 4584]	5732	[6722, 154]	7773	[7966, 3310]
1651	[2756, 2757]	3692	[779, 4586]	5733	[6723, 4316]	7774	[114, 3901]
1652	[2758, 2759]	3693	[5083, 4609]	5734	[4162, 5240]	7775	[1319, 7301]
1653	[2760, 252]	3694	[4948, 4369]	5735	[6724, 4446]	7776	[953, 409]

1654	[2761, 2762]	3695	[5084, 4386]	5736	[6725, 5122]	7777	[901, 3119]
1655	[2763, 1356]	3696	[5085, 633]	5737	[6726, 4726]	7778	[7967, 3767]
1656	[2764, 2765]	3697	[5086, 5087]	5738	[6727, 1993]	7779	[7968, 1382]
1657	[2766, 2767]	3698	[5088, 2388]	5739	[4607, 1978]	7780	[7969, 1477]
1658	[1454, 2768]	3699	[5089, 836]	5740	[6728, 545]	7781	[7970, 1529]
1659	[2769, 2770]	3700	[4785, 5090]	5741	[753, 4590]	7782	[435, 3391]
1660	[2771, 2772]	3701	[5091, 4776]	5742	[6729, 4652]	7783	[7971, 2646]
1661	[2773, 2774]	3702	[5092, 1578]	5743	[6730, 570]	7784	[2793, 3783]
1662	[2775, 2776]	3703	[1779, 4013]	5744	[4308, 711]	7785	[3245, 5691]
1663	[2777, 2778]	3704	[5093, 4445]	5745	[6731, 4055]	7786	[7972, 5650]
1664	[2779, 2780]	3705	[5094, 674]	5746	[6732, 1799]	7787	[7973, 2951]
1665	[1337, 2781]	3706	[5095, 5016]	5747	[6733, 2002]	7788	[2875, 5732]
1666	[2782, 2783]	3707	[5096, 5097]	5748	[6734, 6735]	7789	[1327, 3873]
1667	[2784, 2785]	3708	[5098, 551]	5749	[6736, 4791]	7790	[7974, 3475]
1668	[2786, 2787]	3709	[5099, 5100]	5750	[6737, 2217]	7791	[7975, 380]
1669	[2788, 2789]	3710	[5101, 695]	5751	[2482, 2165]	7792	[930, 1048]
1670	[2790, 2791]	3711	[5102, 1756]	5752	[6738, 4760]	7793	[1512, 6248]
1671	[2792, 2793]	3712	[154, 4700]	5753	[202, 5312]	7794	[7976, 2905]
1672	[2794, 2795]	3713	[4539, 7]	5754	[6739, 2422]	7795	[3870, 1423]
1673	[2678, 2796]	3714	[5103, 4964]	5755	[4243, 4396]	7796	[308, 423]
1674	[2797, 2798]	3715	[5104, 1666]	5756	[6740, 6741]	7797	[7977, 1405]
1675	[2799, 2800]	3716	[4688, 2288]	5757	[4139, 4016]	7798	[7978, 3311]
1676	[1249, 2801]	3717	[243, 4824]	5758	[840, 1899]	7799	[7979, 5854]
1677	[2802, 2803]	3718	[5105, 848]	5759	[6742, 4074]	7800	[7980, 3665]
1678	[2804, 2805]	3719	[4679, 5106]	5760	[6743, 663]	7801	[3272, 966]
1679	[940, 2806]	3720	[2452, 584]	5761	[6744, 4167]	7802	[3213, 2957]
1680	[2807, 396]	3721	[5107, 4705]	5762	[2163, 4597]	7803	[7981, 945]
1681	[122, 2808]	3722	[5108, 1765]	5763	[6745, 1690]	7804	[1262, 6162]
1682	[2809, 2810]	3723	[5109, 4078]	5764	[6746, 6648]	7805	[377, 3152]
1683	[1417, 2811]	3724	[5110, 5111]	5765	[6747, 4245]	7806	[7446, 5412]
1684	[2812, 2813]	3725	[5112, 5113]	5766	[652, 6748]	7807	[7982, 2838]
1685	[2814, 2815]	3726	[5114, 4709]	5767	[6749, 474]	7808	[7983, 5463]
1686	[2816, 913]	3727	[4860, 4584]	5768	[6750, 4789]	7809	[7984, 1530]
1687	[2817, 2818]	3728	[4376, 859]	5769	[6751, 6705]	7810	[7985, 6247]
1688	[1187, 2819]	3729	[1993, 2147]	5770	[2052, 6752]	7811	[7986, 359]
1689	[2820, 1511]	3730	[5115, 2583]	5771	[6753, 1854]	7812	[2750, 1457]
1690	[2821, 2822]	3731	[5116, 4444]	5772	[6754, 1611]	7813	[1098, 114]
1691	[1069, 372]	3732	[2384, 4886]	5773	[6755, 6756]	7814	[7987, 313]
1692	[2650, 2823]	3733	[5117, 2536]	5774	[6757, 6758]	7815	[5892, 2771]
1693	[1139, 2824]	3734	[4867, 2513]	5775	[6759, 31]	7816	[7988, 3034]
1694	[2825, 2826]	3735	[5118, 2618]	5776	[6760, 1933]	7817	[7989, 384]
1695	[2827, 2828]	3736	[5119, 5120]	5777	[6761, 709]	7818	[1255, 3843]
1696	[2829, 2830]	3737	[5121, 4394]	5778	[6762, 664]	7819	[7990, 5968]
1697	[2753, 2831]	3738	[4541, 5122]	5779	[6763, 6764]	7820	[7991, 3800]

1698	[2832, 1285]	3739	[5123, 5124]	5780	[6765, 470]	7821	[3218, 3771]
1699	[1531, 2833]	3740	[5111, 4559]	5781	[6766, 6767]	7822	[7992, 2715]
1700	[1554, 2834]	3741	[5125, 5126]	5782	[4405, 2177]	7823	[7993, 3072]
1701	[2835, 2836]	3742	[5120, 4249]	5783	[5128, 2558]	7824	[934, 3290]
1702	[2837, 2838]	3743	[5127, 5128]	5784	[6768, 6769]	7825	[7994, 2849]
1703	[2839, 2840]	3744	[5129, 1957]	5785	[6770, 2116]	7826	[3470, 3885]
1704	[2841, 2842]	3745	[5130, 843]	5786	[234, 4772]	7827	[5987, 3128]
1705	[66, 1376]	3746	[5131, 767]	5787	[6771, 2601]	7828	[7995, 2649]
1706	[2843, 2844]	3747	[5132, 5133]	5788	[4523, 6772]	7829	[87, 3005]
1707	[2845, 2846]	3748	[5134, 608]	5789	[4670, 2407]	7830	[7996, 1111]
1708	[2847, 2848]	3749	[5135, 4966]	5790	[6773, 4847]	7831	[7997, 2894]
1709	[2849, 2850]	3750	[5136, 4404]	5791	[6774, 4142]	7832	[7998, 997]
1710	[2851, 1190]	3751	[5137, 1624]	5792	[6775, 4141]	7833	[1419, 3854]
1711	[2852, 2853]	3752	[5138, 1768]	5793	[6776, 177]	7834	[410, 5556]
1712	[2854, 2855]	3753	[4714, 2043]	5794	[6777, 1848]	7835	[5928, 7268]
1713	[2856, 2857]	3754	[535, 493]	5795	[6778, 770]	7836	[7999, 1061]
1714	[2858, 2859]	3755	[5139, 2535]	5796	[6779, 5342]	7837	[5637, 3200]
1715	[2860, 1448]	3756	[5140, 125]	5797	[6780, 4663]	7838	[5659, 5563]
1716	[944, 2861]	3757	[5141, 5142]	5798	[6781, 6705]	7839	[8000, 442]
1717	[2862, 2863]	3758	[5143, 4585]	5799	[6782, 4390]	7840	[8001, 989]
1718	[2864, 2865]	3759	[2054, 638]	5800	[6783, 5013]	7841	[1401, 967]
1719	[2866, 2867]	3760	[2433, 1723]	5801	[6784, 242]	7842	[8002, 3692]
1720	[2868, 1469]	3761	[1699, 1880]	5802	[2456, 1655]	7843	[8003, 2936]
1721	[2869, 2870]	3762	[1835, 4302]	5803	[6785, 2155]	7844	[884, 266]
1722	[1304, 2871]	3763	[2355, 5144]	5804	[6786, 4221]	7845	[3329, 3074]
1723	[2872, 2873]	3764	[5145, 2310]	5805	[6787, 5102]	7846	[8004, 1249]
1724	[2874, 2875]	3765	[5146, 4506]	5806	[6788, 4739]	7847	[8005, 5499]
1725	[2876, 402]	3766	[5147, 1797]	5807	[5013, 2499]	7848	[8006, 3197]
1726	[869, 2877]	3767	[5148, 4551]	5808	[6789, 2540]	7849	[6203, 5481]
1727	[2878, 2879]	3768	[5149, 1829]	5809	[6486, 737]	7850	[8007, 1068]
1728	[2880, 925]	3769	[4445, 4759]	5810	[547, 242]	7851	[8008, 5682]
1729	[2881, 2882]	3770	[5150, 5151]	5811	[6790, 4171]	7852	[5727, 3525]
1730	[1104, 2883]	3771	[5152, 62]	5812	[6791, 2069]	7853	[3524, 1127]
1731	[2884, 1346]	3772	[5153, 1932]	5813	[1692, 4689]	7854	[8009, 7342]
1732	[2828, 2885]	3773	[4730, 5111]	5814	[6792, 6793]	7855	[890, 5835]
1733	[2886, 1180]	3774	[5154, 9]	5815	[6794, 1764]	7856	[3534, 2712]
1734	[2887, 2888]	3775	[5155, 4429]	5816	[6567, 1708]	7857	[8010, 5374]
1735	[2889, 2700]	3776	[5156, 2028]	5817	[6795, 2221]	7858	[8011, 273]
1736	[2890, 1038]	3777	[5157, 4639]	5818	[224, 2416]	7859	[5603, 3297]
1737	[2891, 2892]	3778	[5158, 1916]	5819	[6796, 1990]	7860	[5517, 3531]
1738	[2893, 2894]	3779	[5159, 4017]	5820	[2222, 218]	7861	[3113, 3733]
1739	[974, 2895]	3780	[5160, 5161]	5821	[6797, 6798]	7862	[8012, 2672]
1740	[2896, 2897]	3781	[5162, 5163]	5822	[2324, 4006]	7863	[8013, 463]
1741	[2898, 2899]	3782	[5164, 5165]	5823	[6799, 2213]	7864	[8014, 3769]

1742	[2900, 2901]	3783	[5166, 139]	5824	[6800, 5186]	7865	[8015, 3228]
1743	[2902, 882]	3784	[5167, 2432]	5825	[6801, 4438]	7866	[2648, 935]
1744	[2903, 1311]	3785	[773, 4968]	5826	[6511, 2541]	7867	[5690, 3573]
1745	[2904, 2905]	3786	[5168, 5169]	5827	[1837, 6802]	7868	[8016, 3857]
1746	[2906, 2907]	3787	[5170, 846]	5828	[6803, 4989]	7869	[2810, 1492]
1747	[1231, 2908]	3788	[5171, 4946]	5829	[6804, 1792]	7870	[6263, 3181]
1748	[2909, 2910]	3789	[5172, 1769]	5830	[6805, 5090]	7871	[8017, 1334]
1749	[1280, 2911]	3790	[5173, 5174]	5831	[6806, 2445]	7872	[8018, 305]
1750	[2912, 2913]	3791	[4516, 5175]	5832	[1657, 6677]	7873	[8019, 6240]
1751	[2914, 2915]	3792	[5176, 5177]	5833	[4585, 4652]	7874	[286, 5873]
1752	[2916, 1199]	3793	[5178, 4695]	5834	[6807, 6752]	7875	[8020, 3844]
1753	[331, 121]	3794	[5179, 1677]	5835	[6808, 4690]	7876	[8021, 1300]
1754	[2917, 2918]	3795	[5180, 2015]	5836	[6809, 4700]	7877	[263, 3359]
1755	[1540, 2802]	3796	[5181, 5182]	5837	[1801, 6758]	7878	[350, 5602]
1756	[2919, 2920]	3797	[749, 4459]	5838	[6810, 6811]	7879	[8022, 2921]
1757	[2921, 2922]	3798	[5183, 1922]	5839	[6812, 4333]	7880	[8023, 3270]
1758	[2923, 2924]	3799	[5184, 1629]	5840	[4442, 1751]	7881	[8024, 3422]
1759	[2925, 2926]	3800	[2112, 5083]	5841	[6813, 1615]	7882	[3735, 1486]
1760	[1114, 2927]	3801	[5185, 5186]	5842	[4371, 6627]	7883	[5951, 3214]
1761	[2928, 2929]	3802	[5187, 4933]	5843	[6814, 229]	7884	[8025, 5442]
1762	[2930, 264]	3803	[5188, 1912]	5844	[6815, 6781]	7885	[8026, 2690]
1763	[2931, 2932]	3804	[2036, 4895]	5845	[1677, 5051]	7886	[8027, 1078]
1764	[2933, 2934]	3805	[4039, 1707]	5846	[6816, 623]	7887	[8028, 5505]
1765	[2935, 2936]	3806	[4655, 1870]	5847	[6817, 5157]	7888	[1005, 7457]
1766	[2937, 1395]	3807	[2426, 5081]	5848	[6818, 1831]	7889	[3964, 5768]
1767	[2765, 2938]	3808	[5189, 2095]	5849	[843, 5314]	7890	[8029, 247]
1768	[2939, 2940]	3809	[2280, 2096]	5850	[5240, 1908]	7891	[5401, 2725]
1769	[2941, 2942]	3810	[5190, 1612]	5851	[6819, 833]	7892	[8030, 1258]
1770	[1258, 2943]	3811	[4870, 2003]	5852	[4327, 470]	7893	[6042, 975]
1771	[2944, 2945]	3812	[5191, 5192]	5853	[4292, 2077]	7894	[8031, 3954]
1772	[2946, 364]	3813	[498, 5163]	5854	[6820, 1610]	7895	[6093, 957]
1773	[2947, 4]	3814	[5193, 844]	5855	[6821, 725]	7896	[8032, 400]
1774	[2948, 2949]	3815	[5194, 5195]	5856	[4591, 6787]	7897	[8033, 3236]
1775	[2950, 2951]	3816	[5196, 4650]	5857	[4890, 4579]	7898	[8034, 3513]
1776	[989, 2952]	3817	[5197, 4026]	5858	[6822, 557]	7899	[8035, 258]
1777	[2953, 2954]	3818	[5198, 4984]	5859	[6798, 716]	7900	[8036, 3263]
1778	[2955, 1192]	3819	[5199, 2035]	5860	[6823, 6824]	7901	[8037, 3410]
1779	[2956, 2957]	3820	[5200, 783]	5861	[6470, 2346]	7902	[7209, 1178]
1780	[2958, 2959]	3821	[5201, 4829]	5862	[3996, 517]	7903	[3538, 2637]
1781	[2960, 2961]	3822	[5202, 5203]	5863	[6825, 2084]	7904	[8038, 1168]
1782	[2962, 2704]	3823	[5204, 4212]	5864	[6826, 3998]	7905	[2846, 3341]
1783	[2963, 2964]	3824	[5205, 2595]	5865	[6827, 4226]	7906	[938, 3506]
1784	[2965, 2966]	3825	[4895, 5206]	5866	[6828, 2110]	7907	[8039, 3868]
1785	[2967, 2968]	3826	[5207, 5102]	5867	[6829, 4546]	7908	[8040, 5516]

1786	[2969, 1330]	3827	[5208, 1738]	5868	[6830, 2546]	7909	[8041, 3592]
1787	[1059, 2970]	3828	[5209, 4486]	5869	[6831, 6832]	7910	[3928, 281]
1788	[1063, 2971]	3829	[2319, 2459]	5870	[6833, 6834]	7911	[1239, 3696]
1789	[2972, 2973]	3830	[5210, 5211]	5871	[6835, 4450]	7912	[2006, 6620]
1790	[2974, 2975]	3831	[5212, 2629]	5872	[6836, 597]	7913	[8042, 2254]
1791	[2976, 2977]	3832	[5213, 4816]	5873	[6837, 4062]	7914	[8043, 2579]
1792	[2978, 2979]	3833	[818, 1877]	5874	[6838, 6839]	7915	[8044, 5165]
1793	[1065, 2980]	3834	[5214, 2201]	5875	[2219, 1809]	7916	[8045, 6646]
1794	[2981, 2982]	3835	[5215, 4531]	5876	[4209, 4402]	7917	[8046, 6942]
1795	[2983, 1026]	3836	[5216, 5217]	5877	[6840, 200]	7918	[2559, 4124]
1796	[1175, 2984]	3837	[4695, 5218]	5878	[557, 5344]	7919	[4002, 6568]
1797	[984, 2985]	3838	[5219, 1949]	5879	[6841, 527]	7920	[1597, 6700]
1798	[2986, 885]	3839	[5220, 1950]	5880	[4719, 6788]	7921	[6431, 5185]
1799	[2987, 2988]	3840	[5221, 1893]	5881	[6842, 5324]	7922	[8047, 5030]
1800	[1230, 2989]	3841	[1644, 2159]	5882	[6843, 6844]	7923	[8048, 6676]
1801	[2990, 1157]	3842	[5222, 8]	5883	[4545, 2270]	7924	[4720, 4558]
1802	[2991, 2992]	3843	[5223, 4481]	5884	[668, 4832]	7925	[2157, 6738]
1803	[2993, 2994]	3844	[5224, 5225]	5885	[2442, 5095]	7926	[8049, 4575]
1804	[2995, 2996]	3845	[5226, 4833]	5886	[6845, 4886]	7927	[8050, 4722]
1805	[2997, 2998]	3846	[5227, 4099]	5887	[6846, 4193]	7928	[589, 6498]
1806	[2708, 2999]	3847	[5228, 687]	5888	[6847, 2222]	7929	[8051, 7854]
1807	[3000, 3001]	3848	[4491, 4549]	5889	[6848, 6849]	7930	[8052, 6452]
1808	[3002, 1320]	3849	[5229, 1839]	5890	[6850, 519]	7931	[2271, 6817]
1809	[3003, 1471]	3850	[5230, 4887]	5891	[214, 697]	7932	[6964, 2422]
1810	[3004, 3005]	3851	[591, 852]	5892	[6851, 2559]	7933	[8053, 2520]
1811	[3006, 3007]	3852	[5231, 859]	5893	[5039, 4437]	7934	[8054, 6833]
1812	[3008, 3009]	3853	[1593, 5232]	5894	[783, 692]	7935	[4854, 5242]
1813	[3010, 3011]	3854	[5233, 4180]	5895	[6852, 6691]	7936	[1633, 6839]
1814	[3012, 3013]	3855	[1665, 2198]	5896	[6853, 609]	7937	[1907, 1668]
1815	[3014, 3015]	3856	[5234, 2325]	5897	[5161, 2292]	7938	[1877, 1919]
1816	[3016, 3017]	3857	[5235, 1597]	5898	[6854, 2180]	7939	[7144, 6645]
1817	[3018, 3019]	3858	[5236, 4502]	5899	[1705, 5064]	7940	[6824, 6528]
1818	[3020, 3021]	3859	[5237, 2176]	5900	[6855, 4391]	7941	[728, 7755]
1819	[3022, 3023]	3860	[4352, 558]	5901	[4919, 5036]	7942	[8055, 4360]
1820	[1243, 3024]	3861	[5238, 2324]	5902	[4482, 5100]	7943	[8056, 4558]
1821	[1479, 3025]	3862	[5239, 5240]	5903	[6856, 2428]	7944	[2142, 1733]
1822	[3026, 2976]	3863	[5241, 5242]	5904	[6857, 6748]	7945	[4391, 4009]
1823	[3027, 2745]	3864	[5243, 5244]	5905	[6625, 6858]	7946	[5225, 671]
1824	[3028, 2949]	3865	[5245, 4629]	5906	[597, 4928]	7947	[7822, 6898]
1825	[3029, 3030]	3866	[5246, 5005]	5907	[6859, 4072]	7948	[8057, 4124]
1826	[3031, 3032]	3867	[5247, 685]	5908	[6860, 608]	7949	[8058, 6456]
1827	[3033, 3034]	3868	[4223, 2295]	5909	[1952, 563]	7950	[8059, 2452]
1828	[3035, 1075]	3869	[4060, 4075]	5910	[6861, 4876]	7951	[6899, 6488]
1829	[3036, 3037]	3870	[5248, 4545]	5911	[6862, 2048]	7952	[6735, 600]

1830	[3038, 3039]	3871	[5249, 4315]	5912	[546, 6522]	7953	[7040, 2491]
1831	[3040, 1342]	3872	[5250, 5251]	5913	[4739, 169]	7954	[8060, 6828]
1832	[3041, 2924]	3873	[5252, 777]	5914	[6758, 1727]	7955	[697, 7019]
1833	[3042, 3043]	3874	[5253, 521]	5915	[4035, 4859]	7956	[1915, 1744]
1834	[3044, 1095]	3875	[5254, 2012]	5916	[5218, 4665]	7957	[2255, 6942]
1835	[1205, 3045]	3876	[5255, 4920]	5917	[2402, 6863]	7958	[1803, 5281]
1836	[1236, 3046]	3877	[5256, 4590]	5918	[6864, 2242]	7959	[8061, 2344]
1837	[3047, 3048]	3878	[5257, 1855]	5919	[4772, 1588]	7960	[8062, 2200]
1838	[3049, 119]	3879	[5258, 2150]	5920	[4155, 4070]	7961	[5195, 1825]
1839	[3050, 3051]	3880	[828, 4717]	5921	[6865, 2541]	7962	[8063, 6974]
1840	[3052, 3053]	3881	[5259, 5260]	5922	[1615, 1898]	7963	[6661, 5308]
1841	[3054, 3055]	3882	[1809, 5261]	5923	[6866, 6867]	7964	[8064, 5312]
1842	[1270, 3056]	3883	[5262, 867]	5924	[2174, 4817]	7965	[7090, 2478]
1843	[3057, 2837]	3884	[1642, 4910]	5925	[2251, 6868]	7966	[8065, 484]
1844	[3058, 3059]	3885	[5263, 827]	5926	[6869, 5189]	7967	[1885, 1837]
1845	[1023, 1420]	3886	[5264, 829]	5927	[4304, 4688]	7968	[8066, 4795]
1846	[3060, 3061]	3887	[1694, 4766]	5928	[6870, 152]	7969	[8067, 5210]
1847	[3062, 3063]	3888	[5265, 2296]	5929	[6871, 4152]	7970	[8068, 7176]
1848	[3064, 3065]	3889	[5266, 1697]	5930	[4313, 6502]	7971	[6908, 2065]
1849	[3066, 3067]	3890	[4666, 5267]	5931	[4245, 6567]	7972	[8069, 4211]
1850	[3068, 3069]	3891	[5268, 2337]	5932	[6872, 6873]	7973	[4791, 7819]
1851	[2692, 3070]	3892	[5269, 5270]	5933	[2080, 6577]	7974	[8070, 7059]
1852	[257, 1378]	3893	[5271, 227]	5934	[6874, 2168]	7975	[4184, 4953]
1853	[3071, 3072]	3894	[5272, 4740]	5935	[6875, 2065]	7976	[7731, 1803]
1854	[3073, 3074]	3895	[5273, 1774]	5936	[830, 607]	7977	[8071, 6707]
1855	[3075, 432]	3896	[5274, 1628]	5937	[2415, 4317]	7978	[1839, 4603]
1856	[3076, 3077]	3897	[5275, 4176]	5938	[6876, 4227]	7979	[8072, 6991]
1857	[3078, 3079]	3898	[5276, 5277]	5939	[6877, 4853]	7980	[8073, 4485]
1858	[3080, 3081]	3899	[4338, 4028]	5940	[2357, 5072]	7981	[8074, 1701]
1859	[3082, 3083]	3900	[572, 5278]	5941	[38, 1594]	7982	[8075, 2289]
1860	[3084, 310]	3901	[5279, 4188]	5942	[6878, 6879]	7983	[718, 7144]
1861	[1498, 3085]	3902	[5280, 5281]	5943	[4064, 4433]	7984	[2261, 2228]
1862	[3086, 1559]	3903	[5282, 4875]	5944	[6880, 6559]	7985	[8076, 1929]
1863	[3087, 1218]	3904	[5283, 2261]	5945	[6881, 6882]	7986	[1928, 644]
1864	[3088, 3089]	3905	[5284, 2177]	5946	[1651, 5067]	7987	[646, 4937]
1865	[3090, 1541]	3906	[5285, 718]	5947	[4414, 1822]	7988	[6498, 7675]
1866	[3091, 3092]	3907	[841, 5286]	5948	[6664, 4794]	7989	[8077, 4966]
1867	[999, 79]	3908	[4424, 4696]	5949	[6883, 4826]	7990	[8078, 6768]
1868	[3093, 110]	3909	[5287, 684]	5950	[4479, 4843]	7991	[8079, 5185]
1869	[1112, 291]	3910	[5288, 4662]	5951	[4014, 2534]	7992	[8080, 6788]
1870	[3094, 350]	3911	[5289, 4872]	5952	[6884, 4271]	7993	[8081, 2602]
1871	[3095, 2682]	3912	[4926, 4192]	5953	[6885, 6841]	7994	[8082, 4251]
1872	[3096, 2646]	3913	[5290, 5291]	5954	[6456, 4948]	7995	[8083, 5188]
1873	[892, 3097]	3914	[5292, 5293]	5955	[6886, 4452]	7996	[6600, 1973]

1874	[3098, 362]	3915	[5294, 739]	5956	[4685, 6470]	7997	[6620, 4291]
1875	[3099, 274]	3916	[5295, 710]	5957	[6887, 4471]	7998	[8084, 4825]
1876	[1189, 3084]	3917	[4893, 1928]	5958	[4403, 6888]	7999	[1890, 4765]
1877	[3100, 3101]	3918	[479, 4646]	5959	[6889, 4336]	8000	[8085, 4517]
1878	[3102, 2943]	3919	[549, 5296]	5960	[6890, 591]	8001	[8086, 6549]
1879	[3103, 2928]	3920	[5297, 2580]	5961	[4699, 4042]	8002	[2627, 4924]
1880	[3104, 3105]	3921	[2516, 4332]	5962	[4549, 4181]	8003	[6577, 4442]
1881	[3106, 3107]	3922	[5298, 4893]	5963	[1935, 4807]	8004	[6543, 4194]
1882	[3108, 3109]	3923	[5299, 2192]	5964	[5165, 4139]	8005	[8087, 7160]
1883	[3110, 3111]	3924	[5192, 4770]	5965	[34, 4340]	8006	[2577, 4509]
1884	[3112, 3113]	3925	[5281, 4223]	5966	[4137, 1951]	8007	[2152, 2339]
1885	[2768, 3114]	3926	[4878, 766]	5967	[6658, 4074]	8008	[1955, 2]
1886	[3115, 64]	3927	[5300, 4269]	5968	[6891, 753]	8009	[8088, 5208]
1887	[3116, 3117]	3928	[642, 538]	5969	[6892, 2375]	8010	[6599, 826]
1888	[3118, 3119]	3929	[5301, 4237]	5970	[6893, 6528]	8011	[8089, 5026]
1889	[3120, 1072]	3930	[5302, 1612]	5971	[630, 4018]	8012	[7017, 4038]
1890	[3121, 3122]	3931	[5303, 1656]	5972	[6894, 516]	8013	[1611, 6658]
1891	[3123, 1276]	3932	[5304, 2494]	5973	[6895, 2370]	8014	[8090, 4097]
1892	[1423, 3124]	3933	[5305, 4020]	5974	[1892, 5177]	8015	[8091, 4179]
1893	[3124, 927]	3934	[4863, 4051]	5975	[4897, 52]	8016	[4358, 7803]
1894	[3125, 3126]	3935	[5306, 2446]	5976	[488, 6860]	8017	[8092, 6834]
1895	[327, 2678]	3936	[4827, 4876]	5977	[6896, 4885]	8018	[6623, 5235]
1896	[3127, 3128]	3937	[4555, 2359]	5978	[6897, 6898]	8019	[1667, 2538]
1897	[2668, 3129]	3938	[685, 1626]	5979	[4293, 6899]	8020	[8093, 5271]
1898	[2697, 1371]	3939	[1805, 229]	5980	[6900, 6901]	8021	[8094, 2169]
1899	[3130, 330]	3940	[561, 4701]	5981	[6902, 2232]	8022	[8095, 6896]
1900	[3131, 3132]	3941	[4824, 4240]	5982	[6903, 4702]	8023	[7778, 7124]
1901	[3133, 941]	3942	[5307, 5308]	5983	[6904, 1798]	8024	[8096, 1645]
1902	[3134, 3135]	3943	[5309, 820]	5984	[6905, 2529]	8025	[6748, 4409]
1903	[3136, 3137]	3944	[5023, 2489]	5985	[4236, 4072]	8026	[8097, 6735]
1904	[3138, 1494]	3945	[5310, 4325]	5986	[2544, 57]	8027	[1960, 2276]
1905	[2895, 426]	3946	[5311, 5211]	5987	[6906, 595]	8028	[8098, 6501]
1906	[3139, 3140]	3947	[5312, 2329]	5988	[6907, 6908]	8029	[196, 7679]
1907	[3141, 2788]	3948	[5313, 4461]	5989	[6909, 6910]	8030	[7799, 5310]
1908	[3142, 309]	3949	[5314, 5315]	5990	[6911, 5290]	8031	[6996, 4451]
1909	[964, 3143]	3950	[5316, 4026]	5991	[6546, 2539]	8032	[8099, 2270]
1910	[3144, 99]	3951	[5317, 5083]	5992	[6912, 2295]	8033	[2479, 1771]
1911	[3145, 451]	3952	[5318, 2479]	5993	[6913, 212]	8034	[7086, 4225]
1912	[3146, 1535]	3953	[5319, 4647]	5994	[2191, 1656]	8035	[2244, 2323]
1913	[3147, 1539]	3954	[5320, 2171]	5995	[6914, 1830]	8036	[8100, 782]
1914	[3148, 2634]	3955	[5321, 1924]	5996	[6910, 1569]	8037	[8101, 4832]
1915	[3149, 3150]	3956	[593, 2127]	5997	[5175, 4757]	8038	[8102, 2327]
1916	[3151, 3152]	3957	[5322, 5291]	5998	[4272, 6767]	8039	[6867, 6547]
1917	[3153, 3154]	3958	[5323, 602]	5999	[6915, 2584]	8040	[8103, 6992]

1918	[3155, 3156]	3959	[5324, 616]	6000	[5293, 4179]	8041	[8104, 5261]
1919	[3157, 3158]	3960	[5325, 2373]	6001	[6916, 6599]	8042	[8105, 2675]
1920	[3159, 3160]	3961	[44, 5326]	6002	[6917, 2418]	8043	[5909, 3816]
1921	[3161, 3162]	3962	[5327, 5326]	6003	[6918, 5106]	8044	[8106, 3634]
1922	[3163, 3164]	3963	[5328, 5320]	6004	[6919, 2575]	8045	[8107, 968]
1923	[3165, 3020]	3964	[2549, 4044]	6005	[6920, 793]	8046	[1143, 3898]
1924	[3166, 3167]	3965	[5329, 5206]	6006	[5144, 4818]	8047	[8108, 6088]
1925	[2680, 1014]	3966	[5330, 4633]	6007	[6767, 5203]	8048	[8109, 1177]
1926	[3168, 3169]	3967	[5331, 4274]	6008	[6921, 819]	8049	[8110, 3947]
1927	[3170, 317]	3968	[5332, 849]	6009	[820, 1605]	8050	[442, 3819]
1928	[3171, 1388]	3969	[1613, 5288]	6010	[6922, 857]	8051	[2656, 3533]
1929	[3172, 3173]	3970	[2620, 9]	6011	[6923, 4403]	8052	[6240, 3177]
1930	[3174, 3175]	3971	[1968, 4561]	6012	[4499, 798]	8053	[8111, 375]
1931	[3176, 2953]	3972	[5333, 5334]	6013	[2375, 2441]	8054	[3629, 1281]
1932	[3177, 3178]	3973	[5335, 4463]	6014	[5100, 236]	8055	[3257, 3859]
1933	[3179, 3180]	3974	[5336, 5086]	6015	[6570, 6737]	8056	[8112, 1001]
1934	[3181, 3182]	3975	[5337, 673]	6016	[6924, 4537]	8057	[6154, 6016]
1935	[3183, 2667]	3976	[660, 4045]	6017	[6925, 4596]	8058	[1456, 3540]
1936	[3184, 1357]	3977	[4734, 4187]	6018	[6926, 6899]	8059	[1037, 1087]
1937	[3185, 3186]	3978	[850, 41]	6019	[2274, 742]	8060	[8113, 5532]
1938	[3187, 2980]	3979	[5338, 45]	6020	[2413, 2190]	8061	[3917, 1348]
1939	[3188, 1274]	3980	[5339, 2474]	6021	[6927, 568]	8062	[8114, 5712]
1940	[3065, 1101]	3981	[5077, 5133]	6022	[6928, 5070]	8063	[8115, 3003]
1941	[3189, 434]	3982	[5340, 1991]	6023	[6929, 1868]	8064	[8116, 2813]
1942	[110, 2795]	3983	[5341, 3988]	6024	[701, 817]	8065	[5521, 1147]
1943	[3190, 964]	3984	[2374, 5342]	6025	[6930, 1621]	8066	[8117, 2641]
1944	[960, 3191]	3985	[5343, 5344]	6026	[6931, 1779]	8067	[8118, 3283]
1945	[3192, 3193]	3986	[5345, 4588]	6027	[2217, 206]	8068	[976, 1518]
1946	[3194, 3195]	3987	[744, 1761]	6028	[6932, 6455]	8069	[7342, 303]
1947	[3196, 3197]	3988	[5346, 1161]	6029	[5087, 1860]	8070	[8119, 2971]
1948	[3198, 3199]	3989	[5347, 918]	6030	[5081, 6790]	8071	[8120, 1100]
1949	[3200, 2631]	3990	[5348, 5349]	6031	[6933, 1691]	8072	[8121, 884]
1950	[3201, 1271]	3991	[5350, 272]	6032	[4389, 5142]	8073	[8122, 3211]
1951	[3202, 3203]	3992	[5351, 5352]	6033	[6934, 2531]	8074	[8123, 314]
1952	[1534, 3204]	3993	[3865, 3060]	6034	[4093, 4493]	8075	[8124, 1523]
1953	[3205, 3206]	3994	[5353, 3717]	6035	[6935, 5020]	8076	[8125, 5564]
1954	[3207, 3208]	3995	[5354, 1240]	6036	[4238, 6901]	8077	[8126, 2733]
1955	[1384, 3209]	3996	[3210, 5355]	6037	[5278, 6486]	8078	[5433, 3282]
1956	[400, 3210]	3997	[5356, 3231]	6038	[6936, 828]	8079	[8127, 1219]
1957	[3211, 3035]	3998	[5357, 3033]	6039	[6937, 4965]	8080	[8128, 322]
1958	[3212, 3213]	3999	[2989, 901]	6040	[6938, 4346]	8081	[8129, 1270]
1959	[3214, 3215]	4000	[3067, 3516]	6041	[6939, 1641]	8082	[8130, 1256]
1960	[1157, 3216]	4001	[5358, 3479]	6042	[6940, 4027]	8083	[8131, 3653]
1961	[3217, 3218]	4002	[3635, 5359]	6043	[6941, 137]	8084	[3411, 1186]

1962	[3219, 3220]	4003	[1525, 348]	6044	[2363, 6464]	8085	[6347, 91]
1963	[3221, 1434]	4004	[5360, 5361]	6045	[6942, 1937]	8086	[458, 1516]
1964	[1043, 3149]	4005	[5362, 5363]	6046	[5344, 2555]	8087	[5582, 3066]
1965	[3222, 3181]	4006	[3649, 1279]	6047	[6943, 2322]	8088	[8132, 1466]
1966	[3223, 1140]	4007	[5364, 1358]	6048	[6944, 858]	8089	[3820, 256]
1967	[2857, 3224]	4008	[5365, 3966]	6049	[5106, 4174]	8090	[8133, 3337]
1968	[3225, 244]	4009	[5366, 5367]	6050	[6945, 2495]	8091	[8134, 5693]
1969	[3226, 1483]	4010	[2826, 3827]	6051	[854, 4821]	8092	[8135, 1233]
1970	[1544, 3227]	4011	[3339, 2814]	6052	[4767, 6810]	8093	[8136, 434]
1971	[1041, 3193]	4012	[3651, 3213]	6053	[6946, 211]	8094	[8137, 3499]
1972	[1510, 3228]	4013	[5368, 3887]	6054	[6947, 2165]	8095	[422, 1165]
1973	[3229, 3046]	4014	[2957, 3860]	6055	[6948, 837]	8096	[8138, 2748]
1974	[3230, 1404]	4015	[3912, 2799]	6056	[844, 686]	8097	[8139, 3126]
1975	[2882, 3231]	4016	[5369, 3873]	6057	[6949, 1925]	8098	[1180, 3188]
1976	[3037, 1455]	4017	[5370, 3807]	6058	[6950, 727]	8099	[3935, 1044]
1977	[3232, 3233]	4018	[5371, 5372]	6059	[6951, 492]	8100	[8140, 1433]
1978	[3234, 3235]	4019	[5373, 1527]	6060	[48, 4360]	8101	[8141, 3111]
1979	[3236, 3237]	4020	[1122, 5374]	6061	[4662, 4809]	8102	[8142, 1401]
1980	[3238, 1250]	4021	[5375, 1265]	6062	[1847, 6643]	8103	[345, 2828]
1981	[3239, 3240]	4022	[5376, 3793]	6063	[6952, 2248]	8104	[1021, 443]
1982	[3241, 3242]	4023	[1015, 5377]	6064	[6953, 2368]	8105	[7675, 2068]
1983	[3243, 106]	4024	[3582, 3353]	6065	[6954, 2345]	8106	[4037, 6443]
1984	[3244, 3245]	4025	[2658, 5378]	6066	[6955, 4720]	8107	[4849, 2168]
1985	[3246, 3247]	4026	[3270, 1024]	6067	[4989, 6649]	8108	[2552, 5324]
1986	[3248, 3249]	4027	[5379, 1369]	6068	[2178, 2411]	8109	[8143, 4287]
1987	[3250, 3251]	4028	[5380, 5381]	6069	[6956, 723]	8110	[7680, 2421]
1988	[3252, 1027]	4029	[4, 5382]	6070	[603, 4974]	8111	[4741, 4912]
1989	[2979, 3253]	4030	[5383, 5384]	6071	[6957, 5243]	8112	[7830, 596]
1990	[3254, 3255]	4031	[3692, 3161]	6072	[638, 4202]	8113	[8144, 4378]
1991	[3256, 3257]	4032	[3654, 5385]	6073	[6958, 4676]	8114	[8145, 4634]
1992	[3258, 1566]	4033	[5386, 3886]	6074	[6959, 759]	8115	[4481, 6972]
1993	[3259, 1193]	4034	[5387, 1185]	6075	[6960, 2118]	8116	[737, 4934]
1994	[3260, 1152]	4035	[295, 3940]	6076	[6961, 6457]	8117	[4663, 4080]
1995	[3261, 312]	4036	[5388, 3204]	6077	[695, 1748]	8118	[8146, 733]
1996	[3262, 263]	4037	[5389, 1440]	6078	[6962, 6920]	8119	[4044, 7176]
1997	[2932, 3263]	4038	[5390, 5391]	6079	[816, 4659]	8120	[4534, 6639]
1998	[3264, 2823]	4039	[5392, 5393]	6080	[4789, 5026]	8121	[7119, 2457]
1999	[3265, 3266]	4040	[5394, 5395]	6081	[6963, 2131]	8122	[6501, 4450]
2000	[3267, 3268]	4041	[3792, 5396]	6082	[6437, 6964]	8123	[8147, 598]
2001	[3269, 3270]	4042	[5397, 115]	6083	[6965, 671]	8124	[2032, 6882]
2002	[3271, 3272]	4043	[5398, 3171]	6084	[2380, 2604]	8125	[6844, 195]
2003	[3273, 2927]	4044	[3903, 3925]	6085	[173, 1621]	8126	[1773, 6873]
2004	[3274, 3275]	4045	[5399, 3567]	6086	[6966, 4430]	8127	[8148, 6787]
2005	[1194, 1451]	4046	[5400, 5401]	6087	[6967, 478]	8128	[864, 6475]

2006	[2934, 3276]	4047	[5402, 5403]	6088	[4991, 4607]	8129	[5004, 2592]
2007	[3277, 253]	4048	[5404, 3058]	6089	[226, 588]	8130	[8149, 1823]
2008	[3278, 3279]	4049	[5405, 1012]	6090	[6968, 4659]	8131	[1602, 5164]
2009	[3280, 894]	4050	[5406, 121]	6091	[6969, 815]	8132	[8150, 1792]
2010	[3281, 3282]	4051	[5407, 5408]	6092	[2289, 1878]	8133	[4605, 4644]
2011	[1567, 3283]	4052	[3422, 912]	6093	[2504, 2215]	8134	[6764, 4923]
2012	[3284, 3285]	4053	[5409, 5410]	6094	[4073, 4440]	8135	[4319, 6519]
2013	[3286, 2792]	4054	[871, 3265]	6095	[6970, 5076]	8136	[5064, 815]
2014	[3287, 3288]	4055	[5411, 5412]	6096	[4599, 5128]	8137	[5049, 4544]
2015	[3289, 3290]	4056	[5413, 1255]	6097	[4995, 2155]	8138	[6882, 4132]
2016	[3291, 3292]	4057	[2924, 910]	6098	[6971, 473]	8139	[4478, 5290]
2017	[3001, 2896]	4058	[3886, 441]	6099	[6972, 2405]	8140	[5251, 2447]
2018	[3293, 3294]	4059	[5414, 3178]	6100	[5020, 2408]	8141	[5244, 4254]
2019	[2926, 3295]	4060	[5415, 2965]	6101	[6973, 4202]	8142	[6721, 2010]
2020	[3296, 3297]	4061	[5416, 1288]	6102	[6974, 4203]	8143	[3175, 461]
2021	[3242, 1173]	4062	[5417, 5418]	6103	[4390, 6975]	8144	[8151, 1546]
2022	[3298, 1548]	4063	[5419, 5375]	6104	[2341, 1858]	8145	[8152, 5420]
2023	[3299, 1446]	4064	[2811, 3471]	6105	[184, 2073]	8146	[8153, 2830]
2024	[3300, 95]	4065	[877, 5420]	6106	[6976, 2070]	8147	[8154, 1115]
2025	[1072, 999]	4066	[416, 893]	6107	[6977, 4169]	8148	[8155, 1266]
2026	[2831, 3301]	4067	[5421, 20]	6108	[6978, 2118]	8149	[8156, 1540]
2027	[3302, 3303]	4068	[3669, 2753]	6109	[6979, 4555]	8150	[8157, 3346]
2028	[3304, 2725]	4069	[5422, 3610]	6110	[6980, 4299]	8151	[7854, 2397]
2029	[3305, 3306]	4070	[5423, 387]	6111	[6981, 6769]	8152	[5270, 4383]
2030	[3307, 1107]	4071	[5424, 3696]	6112	[6982, 5175]	8153	[4953, 2403]
2031	[3275, 3308]	4072	[5425, 3755]	6113	[6603, 6983]	8154	[7138, 1980]
2032	[3309, 1002]	4073	[3685, 3062]	6114	[6984, 4488]	8155	[2584, 4318]
2033	[2733, 3310]	4074	[5426, 3789]	6115	[1599, 6854]	8156	[5079, 4195]
2034	[255, 3311]	4075	[3178, 1349]	6116	[6985, 4794]	8157	[8158, 4888]
2035	[3312, 3313]	4076	[3327, 5427]	6117	[6986, 2547]	8158	[8159, 5866]
2036	[3314, 1087]	4077	[5428, 3516]	6118	[6987, 1920]	8159	[6681, 2601]
2037	[3315, 3316]	4078	[3208, 5429]	6119	[6988, 6888]		
2038	[3317, 1220]	4079	[407, 3768]	6120	[136, 5005]		
2039	[3276, 3318]	4080	[5430, 1209]	6121	[6989, 2231]		
2040	[3319, 2815]	4081	[5431, 3389]	6122	[6990, 1951]		

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	1361	1	2722	0	4083	1	5444	0	6805	1
1	0	1362	1	2723	0	4084	1	5445	1	6806	0
2	1	1363	0	2724	0	4085	1	5446	0	6807	1
3	0	1364	1	2725	1	4086	1	5447	0	6808	0
4	1	1365	0	2726	1	4087	0	5448	0	6809	1
5	1	1366	1	2727	1	4088	1	5449	0	6810	1

6	0	1367	1	2728	0	4089	1	5450	1	6811	0
7	0	1368	1	2729	0	4090	0	5451	1	6812	0
8	0	1369	0	2730	0	4091	0	5452	1	6813	1
9	1	1370	0	2731	0	4092	1	5453	0	6814	1
10	1	1371	1	2732	0	4093	0	5454	1	6815	1
11	1	1372	0	2733	1	4094	0	5455	0	6816	1
12	1	1373	1	2734	1	4095	1	5456	0	6817	0
13	0	1374	1	2735	1	4096	0	5457	0	6818	1
14	0	1375	1	2736	0	4097	0	5458	1	6819	1
15	0	1376	0	2737	1	4098	0	5459	1	6820	1
16	0	1377	1	2738	0	4099	0	5460	0	6821	0
17	0	1378	1	2739	1	4100	1	5461	0	6822	0
18	1	1379	1	2740	0	4101	1	5462	0	6823	0
19	1	1380	0	2741	1	4102	0	5463	1	6824	0
20	0	1381	1	2742	1	4103	1	5464	0	6825	1
21	1	1382	0	2743	1	4104	0	5465	1	6826	0
22	1	1383	0	2744	1	4105	0	5466	1	6827	1
23	1	1384	1	2745	1	4106	1	5467	0	6828	1
24	0	1385	1	2746	1	4107	0	5468	0	6829	1
25	1	1386	0	2747	0	4108	0	5469	1	6830	1
26	1	1387	0	2748	1	4109	0	5470	1	6831	1
27	0	1388	1	2749	1	4110	1	5471	1	6832	0
28	1	1389	1	2750	1	4111	0	5472	1	6833	0
29	0	1390	0	2751	1	4112	1	5473	1	6834	1
30	0	1391	1	2752	0	4113	1	5474	0	6835	1
31	0	1392	1	2753	0	4114	1	5475	1	6836	0
32	0	1393	0	2754	1	4115	0	5476	0	6837	0
33	0	1394	0	2755	1	4116	1	5477	1	6838	0
34	0	1395	1	2756	1	4117	0	5478	1	6839	1
35	0	1396	1	2757	1	4118	0	5479	1	6840	1
36	0	1397	1	2758	1	4119	1	5480	1	6841	1
37	1	1398	0	2759	1	4120	1	5481	0	6842	0
38	0	1399	1	2760	1	4121	0	5482	1	6843	0
39	1	1400	1	2761	1	4122	1	5483	1	6844	1
40	0	1401	0	2762	0	4123	0	5484	1	6845	0
41	0	1402	1	2763	0	4124	1	5485	1	6846	1
42	0	1403	0	2764	0	4125	0	5486	0	6847	0
43	1	1404	0	2765	1	4126	1	5487	0	6848	1
44	1	1405	1	2766	0	4127	1	5488	0	6849	1
45	1	1406	0	2767	0	4128	1	5489	1	6850	0
46	0	1407	1	2768	0	4129	0	5490	1	6851	0
47	1	1408	1	2769	1	4130	1	5491	0	6852	0
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53	1	1414	1	2775	0	4136	0	5497	1	6858	1
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56	0	1417	0	2778	1	4139	0	5500	0	6861	1
57	1	1418	1	2779	1	4140	1	5501	0	6862	0
58	0	1419	1	2780	0	4141	1	5502	0	6863	1
59	0	1420	1	2781	1	4142	1	5503	0	6864	1
60	1	1421	0	2782	1	4143	1	5504	1	6865	1
61	0	1422	0	2783	0	4144	0	5505	1	6866	0
62	1	1423	0	2784	1	4145	1	5506	1	6867	0
63	0	1424	0	2785	0	4146	1	5507	0	6868	1
64	1	1425	0	2786	0	4147	0	5508	1	6869	1
65	0	1426	1	2787	1	4148	0	5509	0	6870	1
66	0	1427	0	2788	0	4149	0	5510	0	6871	0
67	0	1428	0	2789	1	4150	1	5511	0	6872	1
68	1	1429	0	2790	1	4151	0	5512	0	6873	1
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70	1	1431	0	2792	1	4153	1	5514	0	6875	1
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75	1	1436	1	2797	1	4158	1	5519	0	6880	1
76	1	1437	1	2798	0	4159	0	5520	1	6881	1
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98	0	1459	0	2820	1	4181	1	5542	0	6903	1
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102	0	1463	1	2824	0	4185	1	5546	0	6907	0
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126	0	1487	0	2848	0	4209	1	5570	1	6931	0
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226	1	1587	0	2948	1	4309	0	5670	0	7031	1
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234	1	1595	0	2956	0	4317	0	5678	0	7039	1
235	0	1596	1	2957	1	4318	0	5679	0	7040	0
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237	0	1598	1	2959	0	4320	0	5681	0	7042	1
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256	0	1617	1	2978	0	4339	1	5700	0	7061	0
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307	1	1668	0	3029	0	4390	0	5751	1	7112	1
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309	0	1670	1	3031	0	4392	1	5753	0	7114	0
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317	0	1678	1	3039	1	4400	1	5761	0	7122	1
318	0	1679	1	3040	0	4401	1	5762	1	7123	1
319	1	1680	1	3041	0	4402	0	5763	0	7124	0
320	0	1681	1	3042	0	4403	0	5764	1	7125	0
321	0	1682	1	3043	1	4404	0	5765	0	7126	1
322	0	1683	0	3044	0	4405	0	5766	0	7127	0
323	1	1684	1	3045	1	4406	0	5767	1	7128	0
324	1	1685	0	3046	1	4407	0	5768	1	7129	0
325	1	1686	1	3047	0	4408	0	5769	1	7130	0
326	1	1687	1	3048	1	4409	1	5770	0	7131	1
327	0	1688	1	3049	0	4410	1	5771	1	7132	1
328	0	1689	1	3050	1	4411	0	5772	1	7133	0
329	1	1690	0	3051	1	4412	0	5773	0	7134	1
330	0	1691	1	3052	0	4413	0	5774	1	7135	0
331	0	1692	0	3053	0	4414	0	5775	1	7136	0
332	1	1693	1	3054	0	4415	0	5776	1	7137	0
333	1	1694	0	3055	0	4416	0	5777	1	7138	0
334	0	1695	0	3056	1	4417	0	5778	0	7139	1
335	0	1696	1	3057	0	4418	0	5779	0	7140	1
336	1	1697	0	3058	0	4419	1	5780	1	7141	0
337	1	1698	1	3059	0	4420	0	5781	1	7142	1
338	0	1699	1	3060	0	4421	1	5782	0	7143	0
339	1	1700	1	3061	0	4422	1	5783	0	7144	0
340	1	1701	1	3062	1	4423	1	5784	0	7145	0
341	0	1702	0	3063	0	4424	0	5785	0	7146	0
342	1	1703	1	3064	0	4425	1	5786	1	7147	0
343	0	1704	1	3065	1	4426	0	5787	0	7148	0
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345	0	1706	0	3067	0	4428	0	5789	1	7150	0
346	1	1707	1	3068	1	4429	1	5790	1	7151	0
347	0	1708	0	3069	0	4430	0	5791	0	7152	1
348	0	1709	1	3070	0	4431	0	5792	0	7153	0
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350	1	1711	1	3072	0	4433	1	5794	1	7155	1
351	1	1712	1	3073	0	4434	1	5795	0	7156	0
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353	1	1714	0	3075	0	4436	0	5797	1	7158	1
354	0	1715	0	3076	1	4437	0	5798	0	7159	1
355	1	1716	0	3077	0	4438	1	5799	0	7160	0
356	0	1717	1	3078	1	4439	1	5800	0	7161	1
357	1	1718	1	3079	0	4440	1	5801	0	7162	0

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360	1	1721	0	3082	1	4443	0	5804	1	7165	0
361	1	1722	1	3083	1	4444	0	5805	1	7166	0
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364	0	1725	0	3086	0	4447	0	5808	1	7169	1
365	1	1726	1	3087	0	4448	1	5809	1	7170	1
366	1	1727	1	3088	1	4449	1	5810	1	7171	0
367	0	1728	0	3089	1	4450	0	5811	0	7172	1
368	0	1729	0	3090	0	4451	1	5812	0	7173	0
369	1	1730	1	3091	1	4452	0	5813	0	7174	0
370	0	1731	0	3092	0	4453	0	5814	0	7175	0
371	1	1732	1	3093	0	4454	1	5815	0	7176	0
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375	1	1736	0	3097	0	4458	0	5819	1	7180	1
376	1	1737	0	3098	0	4459	0	5820	1	7181	0
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379	0	1740	1	3101	1	4462	0	5823	1	7184	1
380	1	1741	0	3102	1	4463	1	5824	1	7185	1
381	1	1742	1	3103	0	4464	1	5825	1	7186	1
382	0	1743	1	3104	1	4465	1	5826	0	7187	0
383	0	1744	1	3105	1	4466	0	5827	0	7188	1
384	1	1745	1	3106	1	4467	0	5828	1	7189	1
385	1	1746	0	3107	1	4468	1	5829	0	7190	1
386	0	1747	1	3108	0	4469	0	5830	1	7191	0
387	0	1748	0	3109	1	4470	1	5831	0	7192	1
388	0	1749	0	3110	0	4471	0	5832	0	7193	1
389	0	1750	1	3111	0	4472	0	5833	1	7194	1
390	1	1751	0	3112	1	4473	0	5834	1	7195	1
391	0	1752	0	3113	1	4474	0	5835	0	7196	0
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393	1	1754	1	3115	0	4476	0	5837	0	7198	0
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395	1	1756	1	3117	0	4478	1	5839	0	7200	1
396	1	1757	0	3118	1	4479	1	5840	0	7201	0
397	1	1758	0	3119	1	4480	1	5841	1	7202	1
398	1	1759	0	3120	0	4481	0	5842	0	7203	0
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405	0	1766	0	3127	0	4488	1	5849	0	7210	1
406	1	1767	1	3128	0	4489	1	5850	1	7211	0
407	1	1768	1	3129	1	4490	0	5851	1	7212	1
408	0	1769	1	3130	0	4491	0	5852	0	7213	0
409	1	1770	1	3131	1	4492	0	5853	0	7214	0
410	1	1771	0	3132	1	4493	1	5854	1	7215	0
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414	1	1775	0	3136	1	4497	0	5858	0	7219	0
415	0	1776	0	3137	0	4498	0	5859	0	7220	0
416	0	1777	1	3138	0	4499	0	5860	0	7221	0
417	1	1778	0	3139	1	4500	0	5861	0	7222	1
418	0	1779	0	3140	1	4501	0	5862	1	7223	1
419	0	1780	0	3141	0	4502	1	5863	1	7224	1
420	0	1781	1	3142	1	4503	0	5864	0	7225	0
421	1	1782	0	3143	1	4504	1	5865	1	7226	1
422	0	1783	1	3144	0	4505	0	5866	1	7227	0
423	1	1784	0	3145	0	4506	1	5867	1	7228	1
424	1	1785	1	3146	0	4507	0	5868	1	7229	0
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426	0	1787	0	3148	0	4509	1	5870	0	7231	1
427	0	1788	1	3149	1	4510	1	5871	1	7232	1
428	1	1789	1	3150	0	4511	0	5872	0	7233	1
429	0	1790	0	3151	1	4512	0	5873	0	7234	0
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431	0	1792	0	3153	0	4514	0	5875	1	7236	0
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433	0	1794	1	3155	1	4516	0	5877	1	7238	0
434	1	1795	0	3156	1	4517	0	5878	1	7239	1
435	0	1796	0	3157	0	4518	1	5879	1	7240	0
436	1	1797	1	3158	0	4519	1	5880	1	7241	1
437	0	1798	0	3159	1	4520	1	5881	0	7242	0
438	0	1799	1	3160	1	4521	1	5882	0	7243	1
439	0	1800	0	3161	1	4522	1	5883	1	7244	0
440	0	1801	0	3162	1	4523	1	5884	1	7245	1
441	1	1802	0	3163	1	4524	1	5885	1	7246	1
442	0	1803	1	3164	0	4525	0	5886	0	7247	1
443	1	1804	1	3165	1	4526	1	5887	1	7248	1
444	0	1805	0	3166	1	4527	0	5888	0	7249	1
445	1	1806	1	3167	0	4528	1	5889	1	7250	0

446	0	1807	0	3168	1	4529	0	5890	0	7251	0
447	1	1808	0	3169	0	4530	1	5891	1	7252	1
448	0	1809	1	3170	0	4531	0	5892	0	7253	1
449	0	1810	0	3171	0	4532	1	5893	0	7254	1
450	1	1811	0	3172	1	4533	1	5894	1	7255	1
451	0	1812	1	3173	1	4534	0	5895	0	7256	1
452	0	1813	1	3174	1	4535	1	5896	1	7257	0
453	0	1814	1	3175	0	4536	0	5897	0	7258	0
454	1	1815	1	3176	0	4537	0	5898	1	7259	0
455	1	1816	0	3177	0	4538	0	5899	0	7260	1
456	1	1817	1	3178	1	4539	0	5900	1	7261	1
457	1	1818	0	3179	1	4540	1	5901	1	7262	0
458	0	1819	1	3180	1	4541	1	5902	0	7263	0
459	0	1820	1	3181	0	4542	1	5903	1	7264	0
460	0	1821	1	3182	0	4543	0	5904	1	7265	0
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462	0	1823	0	3184	1	4545	1	5906	1	7267	1
463	1	1824	1	3185	1	4546	0	5907	1	7268	0
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465	0	1826	0	3187	1	4548	1	5909	1	7270	0
466	1	1827	0	3188	1	4549	1	5910	1	7271	0
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468	0	1829	1	3190	0	4551	0	5912	0	7273	1
469	0	1830	0	3191	1	4552	1	5913	0	7274	0
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471	1	1832	0	3193	0	4554	1	5915	0	7276	1
472	1	1833	0	3194	0	4555	0	5916	1	7277	0
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474	1	1835	0	3196	1	4557	0	5918	1	7279	0
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476	0	1837	0	3198	1	4559	0	5920	1	7281	0
477	1	1838	0	3199	0	4560	1	5921	1	7282	1
478	0	1839	1	3200	0	4561	0	5922	0	7283	0
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493	0	1854	0	3215	1	4576	1	5937	1	7298	0
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496	1	1857	1	3218	1	4579	0	5940	1	7301	1
497	0	1858	1	3219	1	4580	1	5941	0	7302	1
498	1	1859	1	3220	1	4581	0	5942	0	7303	0
499	1	1860	0	3221	1	4582	0	5943	1	7304	1
500	1	1861	1	3222	1	4583	1	5944	1	7305	1
501	1	1862	0	3223	0	4584	1	5945	1	7306	0
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505	0	1866	1	3227	0	4588	0	5949	1	7310	0
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521	1	1882	0	3243	1	4604	0	5965	0	7326	0
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523	1	1884	1	3245	0	4606	1	5967	0	7328	0
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525	0	1886	0	3247	0	4608	0	5969	1	7330	0
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527	0	1888	1	3249	1	4610	0	5971	1	7332	0
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537	0	1898	0	3259	1	4620	0	5981	1	7342	1
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540	0	1901	0	3262	1	4623	0	5984	0	7345	0
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542	0	1903	1	3264	0	4625	0	5986	1	7347	0
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548	1	1909	1	3270	0	4631	1	5992	0	7353	0
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550	0	1911	0	3272	1	4633	0	5994	0	7355	0
551	0	1912	0	3273	0	4634	0	5995	0	7356	1
552	1	1913	0	3274	1	4635	0	5996	1	7357	0
553	0	1914	0	3275	1	4636	0	5997	1	7358	0
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555	0	1916	1	3277	0	4638	1	5999	1	7360	1
556	1	1917	0	3278	0	4639	0	6000	0	7361	1
557	1	1918	1	3279	0	4640	1	6001	0	7362	1
558	1	1919	0	3280	0	4641	1	6002	1	7363	0
559	0	1920	1	3281	1	4642	1	6003	0	7364	1
560	0	1921	1	3282	1	4643	1	6004	1	7365	0
561	1	1922	1	3283	1	4644	1	6005	0	7366	0
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563	0	1924	1	3285	1	4646	1	6007	0	7368	1
564	0	1925	0	3286	0	4647	1	6008	0	7369	0
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566	0	1927	0	3288	0	4649	0	6010	1	7371	1
567	0	1928	0	3289	1	4650	1	6011	1	7372	1
568	0	1929	1	3290	0	4651	0	6012	0	7373	1
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573	0	1934	0	3295	1	4656	0	6017	1	7378	1
574	0	1935	0	3296	1	4657	1	6018	1	7379	1
575	1	1936	1	3297	1	4658	0	6019	0	7380	0
576	0	1937	1	3298	0	4659	1	6020	1	7381	1
577	0	1938	1	3299	1	4660	1	6021	0	7382	0

578	0	1939	1	3300	0	4661	0	6022	1	7383	0
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581	1	1942	1	3303	0	4664	1	6025	1	7386	1
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583	1	1944	0	3305	1	4666	1	6027	0	7388	0
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585	1	1946	0	3307	0	4668	0	6029	1	7390	1
586	1	1947	1	3308	1	4669	0	6030	1	7391	1
587	0	1948	1	3309	0	4670	1	6031	0	7392	1
588	0	1949	0	3310	1	4671	1	6032	0	7393	0
589	1	1950	1	3311	1	4672	0	6033	1	7394	1
590	1	1951	1	3312	0	4673	1	6034	0	7395	0
591	0	1952	1	3313	0	4674	0	6035	0	7396	1
592	0	1953	1	3314	0	4675	0	6036	1	7397	1
593	0	1954	0	3315	1	4676	0	6037	1	7398	1
594	1	1955	1	3316	0	4677	0	6038	0	7399	1
595	1	1956	0	3317	0	4678	1	6039	0	7400	1
596	1	1957	0	3318	1	4679	1	6040	0	7401	0
597	1	1958	1	3319	0	4680	1	6041	1	7402	0
598	1	1959	0	3320	0	4681	1	6042	1	7403	0
599	1	1960	1	3321	0	4682	1	6043	0	7404	0
600	0	1961	1	3322	0	4683	1	6044	0	7405	1
601	1	1962	1	3323	1	4684	0	6045	0	7406	1
602	0	1963	1	3324	0	4685	1	6046	1	7407	0
603	0	1964	0	3325	0	4686	1	6047	1	7408	0
604	0	1965	1	3326	0	4687	0	6048	0	7409	1
605	1	1966	0	3327	1	4688	1	6049	0	7410	0
606	1	1967	1	3328	1	4689	1	6050	0	7411	0
607	0	1968	0	3329	0	4690	1	6051	0	7412	0
608	0	1969	0	3330	1	4691	0	6052	1	7413	0
609	0	1970	0	3331	1	4692	1	6053	0	7414	0
610	0	1971	1	3332	0	4693	0	6054	0	7415	1
611	1	1972	1	3333	0	4694	0	6055	0	7416	1
612	0	1973	1	3334	0	4695	0	6056	1	7417	1
613	1	1974	0	3335	0	4696	1	6057	0	7418	1
614	1	1975	1	3336	1	4697	0	6058	0	7419	0
615	0	1976	0	3337	0	4698	1	6059	0	7420	0
616	1	1977	0	3338	0	4699	1	6060	0	7421	1
617	1	1978	1	3339	0	4700	0	6061	1	7422	1
618	0	1979	1	3340	0	4701	0	6062	1	7423	1
619	1	1980	0	3341	0	4702	0	6063	0	7424	0
620	0	1981	1	3342	0	4703	0	6064	0	7425	1
621	0	1982	0	3343	1	4704	1	6065	0	7426	1

622	1	1983	1	3344	0	4705	1	6066	1	7427	0
623	0	1984	1	3345	0	4706	0	6067	1	7428	1
624	1	1985	0	3346	0	4707	0	6068	0	7429	0
625	0	1986	0	3347	1	4708	0	6069	1	7430	1
626	0	1987	1	3348	0	4709	0	6070	0	7431	1
627	0	1988	0	3349	1	4710	1	6071	1	7432	0
628	1	1989	0	3350	0	4711	0	6072	1	7433	1
629	1	1990	1	3351	1	4712	1	6073	1	7434	0
630	1	1991	1	3352	1	4713	1	6074	1	7435	1
631	0	1992	1	3353	0	4714	1	6075	0	7436	0
632	0	1993	1	3354	0	4715	1	6076	0	7437	1
633	0	1994	1	3355	1	4716	1	6077	0	7438	1
634	0	1995	0	3356	0	4717	1	6078	0	7439	0
635	1	1996	1	3357	0	4718	0	6079	0	7440	0
636	1	1997	0	3358	1	4719	1	6080	0	7441	0
637	1	1998	0	3359	0	4720	1	6081	1	7442	1
638	1	1999	1	3360	0	4721	1	6082	1	7443	0
639	0	2000	0	3361	1	4722	0	6083	1	7444	1
640	1	2001	0	3362	1	4723	0	6084	0	7445	1
641	1	2002	1	3363	0	4724	0	6085	0	7446	0
642	0	2003	0	3364	0	4725	1	6086	0	7447	1
643	1	2004	1	3365	1	4726	0	6087	1	7448	1
644	0	2005	0	3366	0	4727	0	6088	0	7449	0
645	0	2006	0	3367	1	4728	1	6089	1	7450	0
646	0	2007	0	3368	0	4729	0	6090	1	7451	1
647	1	2008	0	3369	0	4730	0	6091	1	7452	1
648	1	2009	0	3370	1	4731	0	6092	0	7453	0
649	0	2010	1	3371	0	4732	1	6093	1	7454	0
650	0	2011	1	3372	1	4733	0	6094	0	7455	1
651	1	2012	0	3373	0	4734	1	6095	1	7456	1
652	0	2013	0	3374	0	4735	0	6096	0	7457	0
653	0	2014	0	3375	1	4736	0	6097	1	7458	1
654	0	2015	1	3376	1	4737	1	6098	0	7459	0
655	1	2016	1	3377	1	4738	0	6099	0	7460	1
656	0	2017	0	3378	0	4739	0	6100	0	7461	0
657	0	2018	1	3379	0	4740	0	6101	0	7462	0
658	0	2019	0	3380	0	4741	1	6102	1	7463	0
659	1	2020	1	3381	1	4742	1	6103	0	7464	1
660	0	2021	0	3382	1	4743	0	6104	1	7465	1
661	1	2022	0	3383	1	4744	0	6105	1	7466	1
662	0	2023	1	3384	0	4745	0	6106	1	7467	1
663	1	2024	0	3385	0	4746	1	6107	1	7468	0
664	0	2025	0	3386	0	4747	1	6108	1	7469	1
665	0	2026	0	3387	1	4748	1	6109	1	7470	0

666	1	2027	1	3388	1	4749	0	6110	0	7471	1
667	1	2028	0	3389	1	4750	0	6111	1	7472	1
668	1	2029	1	3390	0	4751	1	6112	1	7473	1
669	0	2030	0	3391	0	4752	1	6113	1	7474	1
670	0	2031	1	3392	1	4753	0	6114	1	7475	1
671	1	2032	0	3393	0	4754	0	6115	0	7476	1
672	1	2033	1	3394	0	4755	0	6116	0	7477	1
673	0	2034	1	3395	1	4756	0	6117	0	7478	1
674	1	2035	0	3396	1	4757	1	6118	1	7479	0
675	1	2036	0	3397	0	4758	1	6119	1	7480	1
676	0	2037	1	3398	0	4759	0	6120	0	7481	1
677	0	2038	0	3399	0	4760	0	6121	1	7482	1
678	0	2039	1	3400	1	4761	0	6122	0	7483	0
679	1	2040	0	3401	0	4762	0	6123	1	7484	1
680	1	2041	1	3402	1	4763	0	6124	0	7485	0
681	1	2042	0	3403	0	4764	0	6125	1	7486	0
682	1	2043	0	3404	1	4765	0	6126	1	7487	0
683	1	2044	1	3405	1	4766	1	6127	0	7488	1
684	0	2045	0	3406	1	4767	1	6128	1	7489	1
685	1	2046	0	3407	0	4768	0	6129	1	7490	1
686	0	2047	1	3408	0	4769	0	6130	1	7491	0
687	0	2048	1	3409	0	4770	1	6131	1	7492	1
688	0	2049	1	3410	1	4771	0	6132	1	7493	1
689	1	2050	0	3411	1	4772	1	6133	0	7494	0
690	1	2051	0	3412	0	4773	1	6134	1	7495	1
691	1	2052	0	3413	0	4774	1	6135	1	7496	0
692	1	2053	1	3414	1	4775	1	6136	1	7497	1
693	1	2054	0	3415	1	4776	0	6137	1	7498	0
694	0	2055	0	3416	1	4777	1	6138	1	7499	0
695	0	2056	1	3417	0	4778	0	6139	1	7500	0
696	0	2057	0	3418	1	4779	1	6140	0	7501	1
697	1	2058	0	3419	1	4780	1	6141	1	7502	1
698	1	2059	0	3420	0	4781	0	6142	1	7503	1
699	0	2060	0	3421	0	4782	0	6143	0	7504	0
700	0	2061	1	3422	0	4783	1	6144	0	7505	1
701	0	2062	0	3423	0	4784	0	6145	0	7506	1
702	1	2063	0	3424	0	4785	0	6146	0	7507	1
703	0	2064	1	3425	0	4786	0	6147	1	7508	1
704	1	2065	1	3426	0	4787	1	6148	1	7509	0
705	0	2066	0	3427	1	4788	0	6149	0	7510	0
706	1	2067	0	3428	1	4789	0	6150	1	7511	1
707	1	2068	1	3429	1	4790	1	6151	0	7512	0
708	1	2069	0	3430	0	4791	0	6152	1	7513	0
709	1	2070	0	3431	1	4792	0	6153	0	7514	0

710	1	2071	0	3432	0	4793	1	6154	1	7515	0
711	1	2072	0	3433	1	4794	0	6155	1	7516	0
712	1	2073	1	3434	0	4795	0	6156	0	7517	0
713	1	2074	1	3435	0	4796	0	6157	0	7518	1
714	0	2075	0	3436	1	4797	1	6158	0	7519	1
715	1	2076	1	3437	0	4798	1	6159	0	7520	1
716	0	2077	0	3438	0	4799	0	6160	0	7521	0
717	1	2078	1	3439	0	4800	0	6161	1	7522	0
718	1	2079	0	3440	0	4801	0	6162	1	7523	0
719	1	2080	0	3441	1	4802	0	6163	0	7524	0
720	0	2081	0	3442	1	4803	1	6164	1	7525	0
721	1	2082	0	3443	1	4804	0	6165	1	7526	1
722	0	2083	0	3444	0	4805	1	6166	1	7527	1
723	1	2084	1	3445	0	4806	0	6167	0	7528	0
724	1	2085	1	3446	1	4807	0	6168	0	7529	1
725	1	2086	0	3447	1	4808	0	6169	1	7530	1
726	0	2087	0	3448	0	4809	1	6170	0	7531	1
727	0	2088	1	3449	0	4810	0	6171	1	7532	1
728	0	2089	1	3450	0	4811	0	6172	1	7533	1
729	0	2090	1	3451	1	4812	0	6173	1	7534	0
730	0	2091	1	3452	1	4813	1	6174	1	7535	1
731	0	2092	0	3453	0	4814	0	6175	0	7536	1
732	0	2093	1	3454	1	4815	0	6176	0	7537	1
733	1	2094	1	3455	0	4816	1	6177	0	7538	0
734	1	2095	1	3456	0	4817	0	6178	0	7539	1
735	0	2096	0	3457	1	4818	0	6179	0	7540	1
736	0	2097	1	3458	1	4819	1	6180	0	7541	1
737	1	2098	0	3459	0	4820	0	6181	1	7542	1
738	1	2099	1	3460	1	4821	1	6182	0	7543	1
739	1	2100	0	3461	0	4822	0	6183	1	7544	0
740	1	2101	1	3462	1	4823	1	6184	1	7545	1
741	1	2102	0	3463	1	4824	0	6185	1	7546	1
742	0	2103	0	3464	0	4825	0	6186	1	7547	1
743	1	2104	1	3465	0	4826	1	6187	1	7548	0
744	1	2105	0	3466	1	4827	0	6188	1	7549	0
745	1	2106	0	3467	0	4828	1	6189	0	7550	0
746	0	2107	1	3468	0	4829	0	6190	1	7551	1
747	1	2108	1	3469	1	4830	0	6191	1	7552	1
748	1	2109	0	3470	1	4831	0	6192	1	7553	0
749	1	2110	0	3471	0	4832	1	6193	1	7554	0
750	0	2111	0	3472	0	4833	0	6194	1	7555	0
751	1	2112	1	3473	1	4834	1	6195	1	7556	1
752	0	2113	0	3474	1	4835	0	6196	1	7557	1
753	1	2114	0	3475	0	4836	1	6197	0	7558	0

754	0	2115	1	3476	0	4837	0	6198	0	7559	0
755	1	2116	1	3477	1	4838	1	6199	1	7560	0
756	0	2117	0	3478	1	4839	1	6200	1	7561	0
757	1	2118	1	3479	1	4840	1	6201	1	7562	0
758	0	2119	0	3480	0	4841	0	6202	0	7563	1
759	1	2120	0	3481	1	4842	0	6203	1	7564	0
760	0	2121	0	3482	1	4843	0	6204	0	7565	0
761	1	2122	1	3483	0	4844	0	6205	1	7566	1
762	1	2123	0	3484	0	4845	0	6206	0	7567	1
763	0	2124	0	3485	1	4846	0	6207	1	7568	0
764	1	2125	0	3486	0	4847	0	6208	0	7569	1
765	1	2126	1	3487	0	4848	1	6209	1	7570	0
766	0	2127	1	3488	0	4849	0	6210	1	7571	0
767	0	2128	0	3489	0	4850	1	6211	1	7572	1
768	1	2129	0	3490	1	4851	1	6212	0	7573	1
769	0	2130	1	3491	1	4852	1	6213	1	7574	1
770	1	2131	1	3492	1	4853	0	6214	1	7575	0
771	0	2132	0	3493	0	4854	1	6215	0	7576	1
772	1	2133	0	3494	1	4855	0	6216	0	7577	1
773	0	2134	1	3495	0	4856	1	6217	0	7578	0
774	1	2135	0	3496	1	4857	0	6218	0	7579	1
775	1	2136	0	3497	1	4858	0	6219	0	7580	0
776	0	2137	1	3498	1	4859	0	6220	1	7581	0
777	0	2138	1	3499	0	4860	1	6221	0	7582	0
778	1	2139	0	3500	0	4861	1	6222	0	7583	1
779	0	2140	1	3501	0	4862	1	6223	0	7584	0
780	0	2141	0	3502	1	4863	1	6224	1	7585	1
781	0	2142	0	3503	0	4864	0	6225	0	7586	1
782	0	2143	0	3504	1	4865	0	6226	1	7587	0
783	1	2144	0	3505	1	4866	1	6227	1	7588	0
784	1	2145	0	3506	0	4867	1	6228	1	7589	0
785	1	2146	1	3507	1	4868	0	6229	1	7590	0
786	0	2147	1	3508	0	4869	0	6230	0	7591	0
787	0	2148	0	3509	1	4870	0	6231	0	7592	0
788	1	2149	1	3510	1	4871	1	6232	1	7593	0
789	0	2150	1	3511	0	4872	0	6233	0	7594	1
790	1	2151	0	3512	1	4873	1	6234	1	7595	1
791	1	2152	0	3513	1	4874	0	6235	0	7596	1
792	1	2153	1	3514	1	4875	1	6236	1	7597	1
793	0	2154	0	3515	1	4876	1	6237	1	7598	1
794	1	2155	0	3516	0	4877	0	6238	0	7599	1
795	1	2156	0	3517	1	4878	0	6239	1	7600	1
796	1	2157	1	3518	1	4879	1	6240	0	7601	0
797	1	2158	0	3519	1	4880	1	6241	1	7602	0

798	0	2159	1	3520	1	4881	0	6242	0	7603	0
799	0	2160	0	3521	0	4882	0	6243	1	7604	1
800	0	2161	1	3522	1	4883	0	6244	0	7605	0
801	0	2162	1	3523	1	4884	1	6245	0	7606	0
802	1	2163	1	3524	1	4885	0	6246	0	7607	1
803	0	2164	1	3525	1	4886	1	6247	0	7608	1
804	1	2165	0	3526	0	4887	1	6248	0	7609	1
805	1	2166	0	3527	0	4888	1	6249	1	7610	1
806	0	2167	0	3528	0	4889	0	6250	0	7611	0
807	1	2168	1	3529	1	4890	1	6251	0	7612	1
808	0	2169	0	3530	1	4891	1	6252	0	7613	0
809	0	2170	1	3531	0	4892	1	6253	1	7614	1
810	1	2171	0	3532	1	4893	1	6254	1	7615	1
811	1	2172	1	3533	1	4894	1	6255	1	7616	1
812	0	2173	0	3534	1	4895	0	6256	0	7617	0
813	1	2174	0	3535	1	4896	1	6257	0	7618	0
814	1	2175	1	3536	0	4897	0	6258	0	7619	0
815	0	2176	1	3537	1	4898	0	6259	1	7620	1
816	0	2177	0	3538	0	4899	0	6260	1	7621	0
817	1	2178	0	3539	1	4900	0	6261	1	7622	1
818	1	2179	0	3540	1	4901	0	6262	1	7623	0
819	0	2180	1	3541	1	4902	1	6263	1	7624	0
820	0	2181	1	3542	0	4903	1	6264	1	7625	0
821	0	2182	1	3543	1	4904	1	6265	1	7626	0
822	0	2183	1	3544	1	4905	0	6266	0	7627	0
823	0	2184	0	3545	0	4906	1	6267	0	7628	0
824	0	2185	0	3546	1	4907	0	6268	0	7629	1
825	0	2186	0	3547	1	4908	1	6269	1	7630	0
826	0	2187	1	3548	0	4909	0	6270	0	7631	1
827	1	2188	1	3549	0	4910	1	6271	1	7632	1
828	0	2189	0	3550	0	4911	0	6272	0	7633	1
829	0	2190	0	3551	0	4912	1	6273	0	7634	1
830	0	2191	0	3552	0	4913	1	6274	1	7635	0
831	1	2192	0	3553	1	4914	0	6275	1	7636	1
832	1	2193	0	3554	0	4915	1	6276	0	7637	0
833	0	2194	1	3555	0	4916	1	6277	1	7638	0
834	0	2195	1	3556	1	4917	1	6278	0	7639	0
835	1	2196	0	3557	0	4918	0	6279	1	7640	1
836	0	2197	1	3558	1	4919	1	6280	1	7641	0
837	0	2198	1	3559	0	4920	1	6281	0	7642	1
838	0	2199	0	3560	1	4921	0	6282	1	7643	0
839	1	2200	0	3561	1	4922	1	6283	1	7644	0
840	0	2201	1	3562	1	4923	1	6284	0	7645	0
841	0	2202	1	3563	0	4924	1	6285	1	7646	0

842	0	2203	0	3564	0	4925	1	6286	0	7647	0
843	0	2204	1	3565	1	4926	0	6287	0	7648	0
844	1	2205	1	3566	0	4927	1	6288	0	7649	1
845	0	2206	0	3567	0	4928	1	6289	1	7650	0
846	1	2207	1	3568	1	4929	0	6290	0	7651	1
847	0	2208	1	3569	1	4930	1	6291	1	7652	1
848	0	2209	0	3570	1	4931	1	6292	0	7653	1
849	0	2210	0	3571	1	4932	1	6293	0	7654	0
850	0	2211	0	3572	1	4933	0	6294	0	7655	1
851	1	2212	1	3573	0	4934	0	6295	0	7656	1
852	0	2213	1	3574	1	4935	0	6296	0	7657	1
853	1	2214	0	3575	0	4936	1	6297	0	7658	0
854	0	2215	1	3576	0	4937	0	6298	0	7659	0
855	1	2216	1	3577	0	4938	0	6299	1	7660	1
856	1	2217	0	3578	0	4939	1	6300	0	7661	0
857	1	2218	0	3579	1	4940	1	6301	1	7662	0
858	1	2219	1	3580	0	4941	1	6302	0	7663	0
859	0	2220	1	3581	0	4942	1	6303	1	7664	0
860	1	2221	1	3582	0	4943	0	6304	1	7665	1
861	0	2222	1	3583	1	4944	0	6305	1	7666	0
862	1	2223	1	3584	1	4945	1	6306	0	7667	0
863	0	2224	0	3585	0	4946	0	6307	1	7668	0
864	0	2225	1	3586	0	4947	1	6308	0	7669	0
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866	0	2227	0	3588	0	4949	1	6310	1	7671	1
867	0	2228	0	3589	0	4950	1	6311	0	7672	1
868	0	2229	0	3590	1	4951	0	6312	0	7673	1
869	1	2230	0	3591	1	4952	1	6313	0	7674	1
870	0	2231	1	3592	0	4953	1	6314	1	7675	1
871	0	2232	0	3593	1	4954	1	6315	1	7676	0
872	1	2233	0	3594	1	4955	0	6316	0	7677	1
873	1	2234	0	3595	1	4956	1	6317	1	7678	1
874	0	2235	1	3596	0	4957	1	6318	0	7679	0
875	1	2236	1	3597	1	4958	0	6319	1	7680	1
876	0	2237	0	3598	1	4959	0	6320	0	7681	1
877	1	2238	1	3599	1	4960	0	6321	1	7682	0
878	0	2239	1	3600	0	4961	0	6322	1	7683	1
879	0	2240	1	3601	1	4962	0	6323	1	7684	1
880	0	2241	0	3602	1	4963	0	6324	1	7685	0
881	1	2242	0	3603	0	4964	1	6325	1	7686	1
882	0	2243	0	3604	1	4965	1	6326	0	7687	1
883	1	2244	0	3605	1	4966	1	6327	0	7688	1
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886	1	2247	1	3608	0	4969	1	6330	0	7691	0
887	1	2248	1	3609	0	4970	0	6331	0	7692	0
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889	1	2250	0	3611	1	4972	0	6333	1	7694	1
890	1	2251	0	3612	1	4973	0	6334	0	7695	0
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893	0	2254	0	3615	1	4976	1	6337	0	7698	0
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897	0	2258	0	3619	0	4980	0	6341	0	7702	0
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919	0	2280	0	3641	0	5002	1	6363	1	7724	0
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927	0	2288	1	3649	0	5010	1	6371	0	7732	0
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932	1	2293	1	3654	1	5015	1	6376	1	7737	0
933	1	2294	1	3655	1	5016	1	6377	0	7738	1
934	1	2295	0	3656	1	5017	0	6378	0	7739	0
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936	1	2297	1	3658	1	5019	1	6380	1	7741	1
937	1	2298	1	3659	0	5020	0	6381	1	7742	1
938	1	2299	1	3660	1	5021	0	6382	0	7743	0
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941	1	2302	0	3663	1	5024	1	6385	0	7746	0
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943	0	2304	1	3665	0	5026	0	6387	0	7748	1
944	0	2305	0	3666	1	5027	1	6388	0	7749	0
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946	1	2307	1	3668	1	5029	0	6390	1	7751	1
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948	1	2309	1	3670	1	5031	0	6392	0	7753	0
949	0	2310	0	3671	1	5032	1	6393	0	7754	0
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958	1	2319	0	3680	1	5041	0	6402	1	7763	1
959	1	2320	1	3681	0	5042	0	6403	0	7764	1
960	0	2321	0	3682	1	5043	1	6404	0	7765	0
961	1	2322	1	3683	0	5044	0	6405	1	7766	0
962	0	2323	0	3684	0	5045	1	6406	0	7767	1
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984	1	2345	0	3706	0	5067	0	6428	0	7789	1
985	1	2346	1	3707	0	5068	1	6429	1	7790	1
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