

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

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 $(a, b) = (z^2 + z, z^4 + z^3 + z^2 + z + 1)$, 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 $\text{CF}(a, b)$,

$$p_0(z) = z^{18} + z^{16} + z^{14} + z^{13} + z^{12} + z^9 + z^7 + z^6 + z^4 + z^3 + z^2 + z + 1,$$

$$p_1(z) = z^{22} + z^{21} + z^{15} + z^{14} + z^{12} + z^8 + z^5 + z^4 + z^3 + z,$$

$$p_2(z) = z^{24} + z^{20} + z^{18} + z^{12} + z^{10} + z^8 + z^4 + z^2,$$

$$p_3(z) = z^{22} + z^{21} + z^{15} + z^{14} + z^{12} + z^8 + z^5 + z^4 + z^3 + z,$$

$$p_4(z) = z^{20} + z^{14} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^4 + z^3 + z,$$

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

$$p_0(z) = z^{18} + z^{14} + z^{13} + z^9 + z^7 + z^6 + z^4 + z^3 + z^2 + z,$$

$$p_1(z) = z^{22} + z^{21} + z^{15} + z^{14} + z^{12} + z^8 + z^5 + z^4 + z^3 + z,$$

$$p_2(z) = z^{24} + z^{20} + z^{18} + z^{12} + z^{10} + z^8 + z^4 + z^2,$$

$$p_3(z) = z^{22} + z^{21} + z^{15} + z^{14} + z^{12} + z^8 + z^5 + z^4 + z^3 + z,$$

$$p_4(z) = z^{20} + z^{16} + z^{14} + z^{13} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^4 + z^3 + z + 1.$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

$$M_{n+1}(x) = W_n(x) \cdot M_n(x),$$

$$W_{n+1}(x) = M_n(x) \cdot W_n(x).$$

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.*

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

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

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

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

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

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

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

which can be rewritten as

$$(2.7) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[110w]_2],$$

$$(2.8) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[111w]_2],$$

$$(2.9) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

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

$$(2.10) \quad + T[[1001w]_2],$$

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

$$(2.12) \quad 0 = T[[10w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[110w]_2],$$

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

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

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

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

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

$$(2.18) \quad 0 = T[[10w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8190 states; its transition function and output function can be found in the annex. Let $A(s, w)$ denote the state reached after reading w from right to left starting from the state s , and τ the output function. Define

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

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

$$(2.19) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 110)),$$

$$(2.20) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 111)),$$

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ + \tau(A(s, 1000)),$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ + \tau(A(s, 101)) + \tau(A(s, 1001)),$$

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

$$(2.24) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

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

$$(2.25) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 110)),$$

$$(2.26) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 111)), \\ 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100))$$

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

$$(2.28) \quad + \tau(A(s, 101)) + \tau(A(s, 1001)),$$

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

$$(2.30) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1011)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{150}), E_{150}) = (A(i, 0^{26}), E_{26})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 75$, 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 $u = 2^{2k-1}$,*

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

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

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

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

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

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

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

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

$$q_0(x) = x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} + x^{15} + x^{12} + x^{11} + x^{10} + x^8 + x^6,$$

$$q_1(x) = x^{23} + x^{21} + x^{20} + x^{19} + x^{16} + x^{12} + x^{10} + x^9 + x^3 + x^2,$$

$$q_2(x) = x^{22} + x^{20} + x^{16} + x^{14} + x^{12} + x^6 + x^4 + 1,$$

$$q_3(x) = x^{23} + x^{21} + x^{20} + x^{19} + x^{16} + x^{12} + x^{10} + x^9 + x^3 + x^2,$$

$$q_4(x) = x^{23} + x^{21} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{12} + x^{11} + x^{10} + x^4.$$

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

$$p_0(x) = x^{132} + x^{130} + x^{128} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{96} + x^{84} + x^{82} + x^{78} + x^{76} + x^{72} + x^{70} + x^{64} + x^{62} + x^{60} + x^{52} + x^{50} + x^{40} + x^{36} + x^{34} + x^{32} + x^{26} + x^{24},$$

$$p_3(x) = x^{128} + x^{124} + x^{110} + x^{104} + x^{102} + x^{100} + x^{94} + x^{92} + x^{90} + x^{86} + x^{82} + x^{76} + x^{74} + x^{70} + x^{68} + x^{66} + x^{62} + x^{54} + x^{52} + x^{50} + x^{46} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{26} + x^{24} + x^{20} + x^{18},$$

$$p_6(x) = x^{126} + x^{124} + x^{112} + x^{110} + x^{106} + x^{102} + x^{98} + x^{94} + x^{84} + x^{82} + x^{66} + x^{64} + x^{58} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} + x^{38} + x^{36} + x^{30} + x^{22} + x^{20} + x^{18} + x^8 + x^4 + x^2 + 1,$$

$$p_9(x) = x^{130} + x^{118} + x^{110} + x^{108} + x^{104} + x^{102} + x^{96} + x^{92} + x^{86} + x^{80} + x^{74} + x^{72} + x^{70} + x^{64} + x^{62} + x^{54} + x^{50} + x^{46} + x^{42} + x^{40} + x^{38}$$

$$\begin{aligned}
& + x^{36} + x^{32} + x^{26} + x^{20} + x^{18} + x^{16} + x^{14} + x^{10} + x^4, \\
p_{12}(x) = & x^{130} + x^{128} + x^{122} + x^{120} + x^{90} + x^{88} + x^{74} + x^{72} + x^{42} + x^{40} + x^{26} \\
& + x^{24} + x^{18} + x^{16} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{114} + x^{112} + x^{111} + x^{110} \\
& + x^{109} + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} + x^{90} \\
& + x^{88} + x^{83} + x^{82} + x^{81} + x^{78} + x^{74} + x^{73} + x^{68} + x^{67} + x^{66} + x^{64} \\
& + x^{62} + x^{59} + x^{58} + x^{57} + x^{54} + x^{51} + x^{49} + x^{48} + x^{46} + x^{44} + x^{43} \\
& + x^{42} + x^{39} + x^{36} + x^{32} + x^{30}, \\
p_3(x) = & x^{124} + x^{122} + x^{121} + x^{120} + x^{119} + x^{115} + x^{114} + x^{110} + x^{107} + x^{106} \\
& + x^{102} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} \\
& + x^{83} + x^{82} + x^{78} + x^{75} + x^{74} + x^{70} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} \\
& + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{46} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39} + x^{38} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{19} + x^{18}, \\
p_6(x) = & x^{123} + x^{119} + x^{118} + x^{117} + x^{114} + x^{112} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{92} + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{73} + x^{72} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} \\
& + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{42} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} \\
& + x^{33} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{23} + x^{21} + x^{19} + x^{18} + x^{17} \\
& + x^{16} + x^{14} + x^{12}, \\
p_9(x) = & x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{98} + x^{97} + x^{96} + x^{95} + x^{91} \\
& + x^{88} + x^{87} + x^{86} + x^{85} + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} \\
& + x^{72} + x^{64} + x^{62} + x^{61} + x^{59} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{48} \\
& + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{35} + x^{34} + x^{33} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{15} + x^{12} + x^{11} \\
& + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) = & x^{121} + x^{116} + x^{105} + x^{101} + x^{100} + x^{96} + x^{85} + x^{80} + x^{73} + x^{68} + x^{57} \\
& + x^{53} + x^{52} + x^{48} + x^{37} + x^{32} + x^{25} + x^{20} + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{124} + x^{122} + x^{121} + x^{118} + x^{114} + x^{112} + x^{111} + x^{110} \\
& + x^{109} + x^{108} + x^{106} + x^{105} + x^{102} + x^{101} + x^{99} + x^{97} + x^{95} + x^{90}
\end{aligned}$$

$$\begin{aligned}
& + x^{88} + x^{83} + x^{82} + x^{81} + x^{78} + x^{74} + x^{73} + x^{68} + x^{67} + x^{66} + x^{64} \\
& + x^{62} + x^{59} + x^{58} + x^{57} + x^{54} + x^{51} + x^{49} + x^{48} + x^{46} + x^{44} + x^{43} \\
& + x^{42} + x^{39} + x^{36} + x^{32} + x^{30}, \\
p_3(x) &= x^{124} + x^{122} + x^{121} + x^{120} + x^{119} + x^{115} + x^{114} + x^{110} + x^{107} + x^{106} \\
& + x^{102} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} \\
& + x^{83} + x^{82} + x^{78} + x^{75} + x^{74} + x^{70} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} \\
& + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{46} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39} + x^{38} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{19} + x^{18}, \\
p_6(x) &= x^{123} + x^{119} + x^{118} + x^{117} + x^{114} + x^{112} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{92} + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{73} + x^{72} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} \\
& + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{42} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} \\
& + x^{33} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{23} + x^{21} + x^{19} + x^{18} + x^{17} \\
& + x^{16} + x^{14} + x^{12}, \\
p_9(x) &= x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{98} + x^{97} + x^{96} + x^{95} + x^{91} \\
& + x^{88} + x^{87} + x^{86} + x^{85} + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} \\
& + x^{72} + x^{64} + x^{62} + x^{61} + x^{59} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{48} \\
& + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{35} + x^{34} + x^{33} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{15} + x^{12} + x^{11} \\
& + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{121} + x^{116} + x^{105} + x^{101} + x^{100} + x^{96} + x^{85} + x^{80} + x^{73} + x^{68} + x^{57} \\
& + x^{53} + x^{52} + x^{48} + x^{37} + x^{32} + x^{25} + x^{20} + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{120} + x^{108} + x^{104} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} + x^{88} + x^{78} + x^{76} \\
& + x^{74} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} + x^{50} + x^{46} \\
& + x^{44} + x^{38} + x^{36}, \\
p_3(x) &= x^{114} + x^{112} + x^{110} + x^{108} + x^{104} + x^{100} + x^{94} + x^{92} + x^{90} + x^{86} \\
& + x^{82} + x^{80} + x^{78} + x^{76} + x^{68} + x^{62} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} \\
& + x^{46} + x^{44} + x^{40} + x^{36} + x^{34} + x^{30} + x^{28} + x^{24} + x^{18} + x^{16} + x^{12}, \\
p_6(x) &= x^{114} + x^{110} + x^{106} + x^{94} + x^{90} + x^{88} + x^{86} + x^{78} + x^{64} + x^{60} + x^{56} \\
& + x^{52} + x^{48} + x^{38} + x^{36} + x^{30} + x^{28} + x^{26} + x^{22} + x^{18} + x^{14} + x^{12} \\
& + x^{10} + x^6 + x^2 + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{112} + x^{108} + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} + x^{90} + x^{86} + x^{80} + x^{78} \\
& + x^{76} + x^{74} + x^{68} + x^{66} + x^{64} + x^{60} + x^{58} + x^{56} + x^{48} + x^{46} + x^{44} \\
& + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{20} + x^{14} + x^{12} + x^{10} + x^8 \\
& + x^4,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{112} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} + x^{90} \\
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{64} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} + x^{50} \\
& + x^{46} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{16} + x^{14} + x^{12} + x^{10} \\
& + x^6 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{120} + x^{116} + x^{114} + x^{112} + x^{108} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} \\
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{76} + x^{74} + x^{72} + x^{62} + x^{60} + x^{54} + x^{52} \\
& + x^{50} + x^{46} + x^{36} + x^{32} + x^{30} + x^{28} + x^{26} + x^{24},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{114} + x^{112} + x^{106} + x^{104} + x^{102} + x^{94} + x^{88} + x^{86} + x^{84} + x^{80} + x^{76} \\
& + x^{66} + x^{64} + x^{60} + x^{52} + x^{46} + x^{36} + x^{34} + x^{22} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{114} + x^{106} + x^{104} + x^{96} + x^{90} + x^{84} + x^{82} + x^{80} + x^{74} + x^{70} + x^{56} \\
& + x^{48} + x^{40} + x^{28} + x^{24} + x^{20} + x^{18} + x^{14} + x^8 + x^6 + x^2 + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{112} + x^{108} + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} + x^{90} + x^{86} + x^{80} + x^{78} \\
& + x^{76} + x^{74} + x^{68} + x^{66} + x^{64} + x^{60} + x^{58} + x^{56} + x^{48} + x^{46} + x^{44} \\
& + x^{40} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{20} + x^{14} + x^{12} + x^{10} + x^8 \\
& + x^4,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{112} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} + x^{90} \\
& + x^{86} + x^{84} + x^{82} + x^{80} + x^{64} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} + x^{50} \\
& + x^{46} + x^{44} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{16} + x^{14} + x^{12} + x^{10} \\
& + x^6 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{122} + x^{118} + x^{117} + x^{115} + x^{114} + x^{112} + x^{110} + x^{109} \\
& + x^{108} + x^{107} + x^{106} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{93} + x^{92} \\
& + x^{90} + x^{89} + x^{81} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} \\
& + x^{68} + x^{67} + x^{63} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{45} + x^{43} + x^{42} + x^{41} + x^{38} + x^{37} + x^{36} + x^{30},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{124} + x^{122} + x^{121} + x^{120} + x^{119} + x^{115} + x^{114} + x^{110} + x^{107} + x^{106} \\
& + x^{102} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} \\
& + x^{83} + x^{82} + x^{78} + x^{75} + x^{74} + x^{70} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63}
\end{aligned}$$

$$\begin{aligned}
& + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{46} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39} + x^{38} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{19} + x^{18}, \\
p_6(x) = & x^{123} + x^{119} + x^{118} + x^{117} + x^{114} + x^{112} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{92} + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{73} + x^{72} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} \\
& + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{42} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} \\
& + x^{33} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{23} + x^{21} + x^{19} + x^{18} + x^{17} \\
& + x^{16} + x^{14} + x^{12}, \\
p_9(x) = & x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{98} + x^{97} + x^{96} + x^{95} + x^{91} \\
& + x^{88} + x^{87} + x^{86} + x^{85} + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} \\
& + x^{72} + x^{64} + x^{62} + x^{61} + x^{59} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{48} \\
& + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{35} + x^{34} + x^{33} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{15} + x^{12} + x^{11} \\
& + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) = & x^{121} + x^{116} + x^{105} + x^{101} + x^{100} + x^{96} + x^{85} + x^{80} + x^{73} + x^{68} + x^{57} \\
& + x^{53} + x^{52} + x^{48} + x^{37} + x^{32} + x^{25} + x^{20} + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{122} + x^{118} + x^{117} + x^{115} + x^{114} + x^{112} + x^{110} + x^{109} \\
& + x^{108} + x^{107} + x^{106} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{93} + x^{92} \\
& + x^{90} + x^{89} + x^{81} + x^{78} + x^{77} + x^{76} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} \\
& + x^{68} + x^{67} + x^{63} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{45} + x^{43} + x^{42} + x^{41} + x^{38} + x^{37} + x^{36} + x^{30}, \\
p_3(x) = & x^{124} + x^{122} + x^{121} + x^{120} + x^{119} + x^{115} + x^{114} + x^{110} + x^{107} + x^{106} \\
& + x^{102} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} \\
& + x^{83} + x^{82} + x^{78} + x^{75} + x^{74} + x^{70} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} \\
& + x^{60} + x^{59} + x^{57} + x^{56} + x^{55} + x^{51} + x^{50} + x^{46} + x^{44} + x^{43} + x^{41} \\
& + x^{40} + x^{39} + x^{38} + x^{30} + x^{28} + x^{27} + x^{25} + x^{24} + x^{23} + x^{19} + x^{18}, \\
p_6(x) = & x^{123} + x^{119} + x^{118} + x^{117} + x^{114} + x^{112} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{92} + x^{91} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{84} + x^{83} + x^{82} + x^{80} + x^{78} + x^{77} + x^{73} + x^{72} + x^{69} + x^{68} + x^{67} \\
& + x^{64} + x^{63} + x^{62} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} \\
& + x^{51} + x^{50} + x^{47} + x^{46} + x^{43} + x^{42} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34}
\end{aligned}$$

$$\begin{aligned}
& + x^{33} + x^{32} + x^{31} + x^{30} + x^{28} + x^{26} + x^{23} + x^{21} + x^{19} + x^{18} + x^{17} \\
& + x^{16} + x^{14} + x^{12}, \\
p_9(x) = & x^{122} + x^{120} + x^{119} + x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{110} + x^{108} \\
& + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{98} + x^{97} + x^{96} + x^{95} + x^{91} \\
& + x^{88} + x^{87} + x^{86} + x^{85} + x^{81} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} \\
& + x^{72} + x^{64} + x^{62} + x^{61} + x^{59} + x^{57} + x^{55} + x^{54} + x^{53} + x^{52} + x^{48} \\
& + x^{46} + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{37} + x^{35} + x^{34} + x^{33} + x^{30} \\
& + x^{29} + x^{27} + x^{26} + x^{25} + x^{22} + x^{21} + x^{20} + x^{19} + x^{15} + x^{12} + x^{11} \\
& + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) = & x^{121} + x^{116} + x^{105} + x^{101} + x^{100} + x^{96} + x^{85} + x^{80} + x^{73} + x^{68} + x^{57} \\
& + x^{53} + x^{52} + x^{48} + x^{37} + x^{32} + x^{25} + x^{20} + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{132} + x^{128} + x^{124} + x^{122} + x^{120} + x^{116} + x^{110} + x^{102} + x^{98} + x^{84} \\
& + x^{82} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} + x^{56} + x^{54} + x^{52} + x^{48} + x^{46} \\
& + x^{38} + x^{36}, \\
p_3(x) = & x^{126} + x^{124} + x^{122} + x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{100} + x^{98} \\
& + x^{94} + x^{88} + x^{84} + x^{82} + x^{78} + x^{76} + x^{74} + x^{72} + x^{68} + x^{64} + x^{62} \\
& + x^{60} + x^{52} + x^{50} + x^{42} + x^{38} + x^{36} + x^{34} + x^{32} + x^{28} + x^{18} + x^{12}, \\
p_6(x) = & x^{128} + x^{126} + x^{122} + x^{106} + x^{104} + x^{102} + x^{100} + x^{90} + x^{88} + x^{86} \\
& + x^{80} + x^{76} + x^{74} + x^{68} + x^{66} + x^{64} + x^{62} + x^{58} + x^{56} + x^{54} + x^{48} \\
& + x^{44} + x^{38} + x^{36} + x^{34} + x^{20} + x^{16} + x^{14} + x^{10} + x^4 + x^2 + 1, \\
p_9(x) = & x^{130} + x^{118} + x^{110} + x^{108} + x^{104} + x^{102} + x^{96} + x^{92} + x^{86} + x^{80} \\
& + x^{74} + x^{72} + x^{70} + x^{64} + x^{62} + x^{54} + x^{50} + x^{46} + x^{42} + x^{40} + x^{38} \\
& + x^{36} + x^{32} + x^{26} + x^{20} + x^{18} + x^{16} + x^{14} + x^{10} + x^4, \\
p_{12}(x) = & x^{130} + x^{128} + x^{122} + x^{120} + x^{90} + x^{88} + x^{74} + x^{72} + x^{42} + x^{40} + x^{26} \\
& + x^{24} + x^{18} + x^{16} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{121} + x^{118} + x^{114} + x^{113} + x^{112} + x^{108} + x^{107} + x^{104} \\
& + x^{101} + x^{99} + x^{94} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{75} \\
& + x^{69} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{58} + x^{56} + x^{54} + x^{52} \\
& + x^{49} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} \\
& + x^{33} + x^{29} + x^{28} + x^{24}, \\
p_3(x) = & x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{116} + x^{114} + x^{113}
\end{aligned}$$

$$\begin{aligned}
& + x^{111} + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} \\
& + x^{101} + x^{99} + x^{96} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{84} + x^{78} \\
& + x^{75} + x^{73} + x^{66} + x^{63} + x^{62} + x^{60} + x^{59} + x^{53} + x^{49} + x^{48} + x^{46} \\
& + x^{45} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} \\
& + x^{29} + x^{27} + x^{26} + x^{24} + x^{21} + x^{16}, \\
p_6(x) = & x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} \\
& + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} + x^{106} + x^{105} + x^{101} + x^{100} \\
& + x^{96} + x^{94} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} + x^{86} + x^{82} + x^{78} + x^{73} \\
& + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} + x^{61} + x^{59} + x^{57} + x^{55} + x^{49} + x^{48} \\
& + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{38} + x^{32} + x^{31} + x^{30} + x^{27} + x^{26} \\
& + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{13} + x^{12} \\
& + x^8 + x^5 + 1, \\
p_9(x) = & x^{125} + x^{120} + x^{113} + x^{108} + x^{97} + x^{93} + x^{92} + x^{88} + x^{77} + x^{72} + x^{65} \\
& + x^{60} + x^{49} + x^{45} + x^{44} + x^{40} + x^{29} + x^{24} + x^{17} + x^{13} + x^{12} + x^8, \\
p_{12}(x) = & x^{125} + x^{121} + x^{120} + x^{116} + x^{113} + x^{108} + x^{105} + x^{101} + x^{100} + x^{97} \\
& + x^{96} + x^{93} + x^{92} + x^{88} + x^{85} + x^{80} + x^{77} + x^{73} + x^{72} + x^{68} + x^{65} \\
& + x^{60} + x^{57} + x^{53} + x^{52} + x^{49} + x^{48} + x^{45} + x^{44} + x^{40} + x^{37} + x^{32} \\
& + x^{29} + x^{25} + x^{24} + x^{20} + x^{17} + x^{13} + x^{12} + x^8 + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{128} + x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{116} + x^{114} + x^{110} \\
& + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\
& + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{82} + x^{80} \\
& + x^{75} + x^{73} + x^{67} + x^{66} + x^{65} + x^{62} + x^{61} + x^{60} + x^{57} + x^{56} + x^{55} \\
& + x^{54} + x^{52} + x^{49} + x^{48} + x^{47} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} \\
& + x^{36} + x^{35} + x^{32} + x^{30}, \\
p_3(x) = & x^{121} + x^{118} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{104} \\
& + x^{103} + x^{101} + x^{99} + x^{96} + x^{91} + x^{90} + x^{89} + x^{86} + x^{84} + x^{82} + x^{81} \\
& + x^{79} + x^{78} + x^{77} + x^{76} + x^{72} + x^{71} + x^{69} + x^{67} + x^{64} + x^{59} + x^{58} \\
& + x^{57} + x^{54} + x^{52} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{40} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} + x^{29} + x^{27} + x^{24} \\
& + x^{19} + x^{18}, \\
p_6(x) = & x^{122} + x^{116} + x^{114} + x^{112} + x^{106} + x^{104} + x^{98} + x^{92} + x^{90} + x^{88} \\
& + x^{80} + x^{78} + x^{76} + x^{66} + x^{64} + x^{60} + x^{52} + x^{36} + x^{28} + x^{26} + x^{22} \\
& + x^{20} + x^{14} + x^{12},
\end{aligned}$$

$$\begin{aligned}
p_9(x) &= x^{123} + x^{120} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{110} + x^{108} \\
&\quad + x^{107} + x^{105} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{95} + x^{94} + x^{92} \\
&\quad + x^{89} + x^{88} + x^{87} + x^{86} + x^{75} + x^{72} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} \\
&\quad + x^{63} + x^{62} + x^{60} + x^{59} + x^{57} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} \\
&\quad + x^{46} + x^{44} + x^{41} + x^{40} + x^{39} + x^{38} + x^{27} + x^{24} + x^{22} + x^{21} + x^{20} \\
&\quad + x^{19} + x^{18} + x^{15} + x^{14} + x^{12} + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{124} + x^{116} + x^{112} + x^{108} + x^{104} + x^{88} + x^{84} + x^{80} + x^{76} + x^{68} + x^{64} \\
&\quad + x^{60} + x^{56} + x^{40} + x^{36} + x^{32} + x^{28} + x^{20} + x^{16} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{122} + x^{121} + x^{117} + x^{116} + x^{114} \\
&\quad + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{104} + x^{103} + x^{102} + x^{99} + x^{96} \\
&\quad + x^{92} + x^{90} + x^{87} + x^{85} + x^{83} + x^{82} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{49} \\
&\quad + x^{46} + x^{45} + x^{43} + x^{41} + x^{37} + x^{36} + x^{35} + x^{30}, \\
p_3(x) &= x^{133} + x^{130} + x^{128} + x^{126} + x^{123} + x^{121} + x^{118} + x^{116} + x^{113} + x^{111} \\
&\quad + x^{108} + x^{106} + x^{103} + x^{94} + x^{90} + x^{89} + x^{86} + x^{84} + x^{81} + x^{79} + x^{76} \\
&\quad + x^{74} + x^{71} + x^{62} + x^{58} + x^{57} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} \\
&\quad + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{36} + x^{35} + x^{31} \\
&\quad + x^{29} + x^{26} + x^{24} + x^{19} + x^{18}, \\
p_6(x) &= x^{134} + x^{128} + x^{124} + x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{104} + x^{102} \\
&\quad + x^{98} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{76} + x^{70} + x^{64} + x^{62} + x^{58} \\
&\quad + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} + x^{42} + x^{32} + x^{28} + x^{26} + x^{14} + x^{12}, \\
p_9(x) &= x^{135} + x^{132} + x^{130} + x^{129} + x^{128} + x^{126} + x^{124} + x^{123} + x^{121} + x^{119} \\
&\quad + x^{118} + x^{117} + x^{116} + x^{115} + x^{110} + x^{107} + x^{104} + x^{103} + x^{101} \\
&\quad + x^{99} + x^{98} + x^{97} + x^{96} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{82} + x^{81} \\
&\quad + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{62} \\
&\quad + x^{59} + x^{56} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{48} + x^{44} + x^{41} + x^{40} \\
&\quad + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{25} + x^{22} + x^{21} \\
&\quad + x^{19} + x^{18} + x^{17} + x^{16} + x^{12} + x^9 + x^8 + x^7 + x^6, \\
p_{12}(x) &= x^{136} + x^{124} + x^{120} + x^{116} + x^{112} + x^{92} + x^{88} + x^{84} + x^{80} + x^{76} + x^{72} \\
&\quad + x^{68} + x^{64} + x^{44} + x^{40} + x^{36} + x^{32} + x^{28} + x^{20} + x^{16} + x^{12} + x^4 + 1,
\end{aligned}$$

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

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

$$p_0(x) = x^{126} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111}$$

$$\begin{aligned}
& + x^{110} + x^{109} + x^{106} + x^{105} + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} \\
& + x^{92} + x^{91} + x^{90} + x^{86} + x^{85} + x^{84} + x^{82} + x^{77} + x^{76} + x^{74} + x^{73} \\
& + x^{72} + x^{71} + x^{69} + x^{66} + x^{65} + x^{62} + x^{57} + x^{54} + x^{51} + x^{45} + x^{44} \\
& + x^{42} + x^{41} + x^{40} + x^{38} + x^{36}, \\
p_3(x) &= x^{125} + x^{124} + x^{122} + x^{120} + x^{119} + x^{118} + x^{117} + x^{114} + x^{113} + x^{112} \\
& + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{103} + x^{97} + x^{94} + x^{91} \\
& + x^{90} + x^{85} + x^{80} + x^{78} + x^{77} + x^{75} + x^{73} + x^{72} + x^{69} + x^{67} + x^{66} \\
& + x^{65} + x^{64} + x^{63} + x^{61} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{46} + x^{42} \\
& + x^{41} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{26} + x^{25} + x^{22} \\
& + x^{20}, \\
p_6(x) &= x^{125} + x^{124} + x^{122} + x^{119} + x^{117} + x^{115} + x^{112} + x^{111} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{94} + x^{93} + x^{92} + x^{89} \\
& + x^{83} + x^{77} + x^{73} + x^{72} + x^{70} + x^{67} + x^{66} + x^{64} + x^{63} + x^{60} + x^{58} \\
& + x^{57} + x^{56} + x^{54} + x^{53} + x^{51} + x^{50} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} \\
& + x^{37} + x^{35} + x^{34} + x^{29} + x^{27} + x^{22} + x^{21} + x^{20} + x^{17} + x^{16} + x^{14} \\
& + x^{12} + x^5 + 1, \\
p_9(x) &= x^{125} + x^{120} + x^{113} + x^{108} + x^{97} + x^{93} + x^{92} + x^{88} + x^{77} + x^{72} + x^{65} \\
& + x^{60} + x^{49} + x^{45} + x^{44} + x^{40} + x^{29} + x^{24} + x^{17} + x^{13} + x^{12} + x^8, \\
p_{12}(x) &= x^{125} + x^{121} + x^{120} + x^{116} + x^{113} + x^{108} + x^{105} + x^{101} + x^{100} + x^{97} \\
& + x^{96} + x^{93} + x^{92} + x^{88} + x^{85} + x^{80} + x^{77} + x^{73} + x^{72} + x^{68} + x^{65} \\
& + x^{60} + x^{57} + x^{53} + x^{52} + x^{49} + x^{48} + x^{45} + x^{44} + x^{40} + x^{37} + x^{32} \\
& + x^{29} + x^{25} + x^{24} + x^{20} + x^{17} + x^{13} + x^{12} + x^8 + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{121} + x^{118} + x^{114} + x^{113} + x^{112} + x^{108} + x^{107} + x^{104} \\
& + x^{101} + x^{99} + x^{94} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{83} + x^{75} \\
& + x^{69} + x^{68} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{58} + x^{56} + x^{54} + x^{52} \\
& + x^{49} + x^{46} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} + x^{38} + x^{36} + x^{35} + x^{34} \\
& + x^{33} + x^{29} + x^{28} + x^{24}, \\
p_3(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{119} + x^{116} + x^{114} + x^{113} \\
& + x^{111} + x^{110} + x^{109} + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} \\
& + x^{101} + x^{99} + x^{96} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{86} + x^{84} + x^{78} \\
& + x^{75} + x^{73} + x^{66} + x^{63} + x^{62} + x^{60} + x^{59} + x^{53} + x^{49} + x^{48} + x^{46} \\
& + x^{45} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} \\
& + x^{29} + x^{27} + x^{26} + x^{24} + x^{21} + x^{16},
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} \\
&\quad + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} + x^{106} + x^{105} + x^{101} + x^{100} \\
&\quad + x^{96} + x^{94} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} + x^{86} + x^{82} + x^{78} + x^{73} \\
&\quad + x^{70} + x^{69} + x^{66} + x^{65} + x^{62} + x^{61} + x^{59} + x^{57} + x^{55} + x^{49} + x^{48} \\
&\quad + x^{47} + x^{46} + x^{45} + x^{42} + x^{41} + x^{38} + x^{32} + x^{31} + x^{30} + x^{27} + x^{26} \\
&\quad + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{13} + x^{12} \\
&\quad + x^8 + x^5 + 1, \\
p_9(x) &= x^{125} + x^{120} + x^{113} + x^{108} + x^{97} + x^{93} + x^{92} + x^{88} + x^{77} + x^{72} + x^{65} \\
&\quad + x^{60} + x^{49} + x^{45} + x^{44} + x^{40} + x^{29} + x^{24} + x^{17} + x^{13} + x^{12} + x^8, \\
p_{12}(x) &= x^{125} + x^{121} + x^{120} + x^{116} + x^{113} + x^{108} + x^{105} + x^{101} + x^{100} + x^{97} \\
&\quad + x^{96} + x^{93} + x^{92} + x^{88} + x^{85} + x^{80} + x^{77} + x^{73} + x^{72} + x^{68} + x^{65} \\
&\quad + x^{60} + x^{57} + x^{53} + x^{52} + x^{49} + x^{48} + x^{45} + x^{44} + x^{40} + x^{37} + x^{32} \\
&\quad + x^{29} + x^{25} + x^{24} + x^{20} + x^{17} + x^{13} + x^{12} + x^8 + x^5 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{134} + x^{133} + x^{132} + x^{130} + x^{127} + x^{122} + x^{121} + x^{117} + x^{116} + x^{114} \\
&\quad + x^{113} + x^{112} + x^{110} + x^{108} + x^{107} + x^{104} + x^{103} + x^{102} + x^{99} + x^{96} \\
&\quad + x^{92} + x^{90} + x^{87} + x^{85} + x^{83} + x^{82} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{65} + x^{62} + x^{56} + x^{55} + x^{53} + x^{52} + x^{51} + x^{49} \\
&\quad + x^{46} + x^{45} + x^{43} + x^{41} + x^{37} + x^{36} + x^{35} + x^{30}, \\
p_3(x) &= x^{133} + x^{130} + x^{128} + x^{126} + x^{123} + x^{121} + x^{118} + x^{116} + x^{113} + x^{111} \\
&\quad + x^{108} + x^{106} + x^{103} + x^{94} + x^{90} + x^{89} + x^{86} + x^{84} + x^{81} + x^{79} + x^{76} \\
&\quad + x^{74} + x^{71} + x^{62} + x^{58} + x^{57} + x^{54} + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} \\
&\quad + x^{47} + x^{46} + x^{45} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} + x^{36} + x^{35} + x^{31} \\
&\quad + x^{29} + x^{26} + x^{24} + x^{19} + x^{18}, \\
p_6(x) &= x^{134} + x^{128} + x^{124} + x^{120} + x^{118} + x^{114} + x^{112} + x^{108} + x^{104} + x^{102} \\
&\quad + x^{98} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{76} + x^{70} + x^{64} + x^{62} + x^{58} \\
&\quad + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} + x^{42} + x^{32} + x^{28} + x^{26} + x^{14} + x^{12}, \\
p_9(x) &= x^{135} + x^{132} + x^{130} + x^{129} + x^{128} + x^{126} + x^{124} + x^{123} + x^{121} + x^{119} \\
&\quad + x^{118} + x^{117} + x^{116} + x^{115} + x^{110} + x^{107} + x^{104} + x^{103} + x^{101} \\
&\quad + x^{99} + x^{98} + x^{97} + x^{96} + x^{92} + x^{89} + x^{88} + x^{86} + x^{84} + x^{82} + x^{81} \\
&\quad + x^{80} + x^{78} + x^{76} + x^{75} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{62} \\
&\quad + x^{59} + x^{56} + x^{55} + x^{53} + x^{51} + x^{50} + x^{49} + x^{48} + x^{44} + x^{41} + x^{40} \\
&\quad + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{28} + x^{27} + x^{25} + x^{22} + x^{21} \\
&\quad + x^{19} + x^{18} + x^{17} + x^{16} + x^{12} + x^9 + x^8 + x^7 + x^6,
\end{aligned}$$

$$p_{12}(x) = x^{136} + x^{124} + x^{120} + x^{116} + x^{112} + x^{92} + x^{88} + x^{84} + x^{80} + x^{76} + x^{72} \\ + x^{68} + x^{64} + x^{44} + x^{40} + x^{36} + x^{32} + x^{28} + x^{20} + x^{16} + x^{12} + x^4 + 1,$$

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

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

$$p_0(x) = x^{128} + x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{120} + x^{116} + x^{114} + x^{110} \\ + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{96} \\ + x^{94} + x^{93} + x^{91} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} + x^{83} + x^{82} + x^{80} \\ + x^{75} + x^{73} + x^{67} + x^{66} + x^{65} + x^{62} + x^{61} + x^{60} + x^{57} + x^{56} + x^{55} \\ + x^{54} + x^{52} + x^{49} + x^{48} + x^{47} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} + x^{37} \\ + x^{36} + x^{35} + x^{32} + x^{30}, \\ p_3(x) = x^{121} + x^{118} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{109} + x^{108} + x^{104} \\ + x^{103} + x^{101} + x^{99} + x^{96} + x^{91} + x^{90} + x^{89} + x^{86} + x^{84} + x^{82} + x^{81} \\ + x^{79} + x^{78} + x^{77} + x^{76} + x^{72} + x^{71} + x^{69} + x^{67} + x^{64} + x^{59} + x^{58} \\ + x^{57} + x^{54} + x^{52} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{40} \\ + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} + x^{29} + x^{27} + x^{24} \\ + x^{19} + x^{18}, \\ p_6(x) = x^{122} + x^{116} + x^{114} + x^{112} + x^{106} + x^{104} + x^{98} + x^{92} + x^{90} + x^{88} \\ + x^{80} + x^{78} + x^{76} + x^{66} + x^{64} + x^{60} + x^{52} + x^{36} + x^{28} + x^{26} + x^{22} \\ + x^{20} + x^{14} + x^{12}, \\ p_9(x) = x^{123} + x^{120} + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{111} + x^{110} + x^{108} \\ + x^{107} + x^{105} + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{95} + x^{94} + x^{92} \\ + x^{89} + x^{88} + x^{87} + x^{86} + x^{75} + x^{72} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} \\ + x^{63} + x^{62} + x^{60} + x^{59} + x^{57} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{47} \\ + x^{46} + x^{44} + x^{41} + x^{40} + x^{39} + x^{38} + x^{27} + x^{24} + x^{22} + x^{21} + x^{20} \\ + x^{19} + x^{18} + x^{15} + x^{14} + x^{12} + x^9 + x^8 + x^7 + x^6, \\ p_{12}(x) = x^{124} + x^{116} + x^{112} + x^{108} + x^{104} + x^{88} + x^{84} + x^{80} + x^{76} + x^{68} + x^{64} \\ + x^{60} + x^{56} + x^{40} + x^{36} + x^{32} + x^{28} + x^{20} + x^{16} + x^8 + x^4 + 1,$$

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

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

$$p_0(x) = x^{126} + x^{124} + x^{122} + x^{121} + x^{118} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} \\ + x^{110} + x^{109} + x^{106} + x^{105} + x^{102} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} \\ + x^{92} + x^{91} + x^{90} + x^{86} + x^{85} + x^{84} + x^{82} + x^{77} + x^{76} + x^{74} + x^{73} \\ + x^{72} + x^{71} + x^{69} + x^{66} + x^{65} + x^{62} + x^{57} + x^{54} + x^{51} + x^{45} + x^{44} \\ + x^{42} + x^{41} + x^{40} + x^{38} + x^{36}, \\ p_3(x) = x^{125} + x^{124} + x^{122} + x^{120} + x^{119} + x^{118} + x^{117} + x^{114} + x^{113} + x^{112}$$

$$\begin{aligned}
& + x^{111} + x^{110} + x^{108} + x^{107} + x^{106} + x^{105} + x^{103} + x^{97} + x^{94} + x^{91} \\
& + x^{90} + x^{85} + x^{80} + x^{78} + x^{77} + x^{75} + x^{73} + x^{72} + x^{69} + x^{67} + x^{66} \\
& + x^{65} + x^{64} + x^{63} + x^{61} + x^{57} + x^{56} + x^{54} + x^{52} + x^{49} + x^{46} + x^{42} \\
& + x^{41} + x^{39} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} + x^{32} + x^{26} + x^{25} + x^{22} \\
& + x^{20}, \\
p_6(x) = & x^{125} + x^{124} + x^{122} + x^{119} + x^{117} + x^{115} + x^{112} + x^{111} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{94} + x^{93} + x^{92} + x^{89} \\
& + x^{83} + x^{77} + x^{73} + x^{72} + x^{70} + x^{67} + x^{66} + x^{64} + x^{63} + x^{60} + x^{58} \\
& + x^{57} + x^{56} + x^{54} + x^{53} + x^{51} + x^{50} + x^{44} + x^{43} + x^{41} + x^{40} + x^{39} \\
& + x^{37} + x^{35} + x^{34} + x^{29} + x^{27} + x^{22} + x^{21} + x^{20} + x^{17} + x^{16} + x^{14} \\
& + x^{12} + x^5 + 1, \\
p_9(x) = & x^{125} + x^{120} + x^{113} + x^{108} + x^{97} + x^{93} + x^{92} + x^{88} + x^{77} + x^{72} + x^{65} \\
& + x^{60} + x^{49} + x^{45} + x^{44} + x^{40} + x^{29} + x^{24} + x^{17} + x^{13} + x^{12} + x^8, \\
p_{12}(x) = & x^{125} + x^{121} + x^{120} + x^{116} + x^{113} + x^{108} + x^{105} + x^{101} + x^{100} + x^{97} \\
& + x^{96} + x^{93} + x^{92} + x^{88} + x^{85} + x^{80} + x^{77} + x^{73} + x^{72} + x^{68} + x^{65} \\
& + x^{60} + x^{57} + x^{53} + x^{52} + x^{49} + x^{48} + x^{45} + x^{44} + x^{40} + x^{37} + x^{32} \\
& + x^{29} + x^{25} + x^{24} + x^{20} + x^{17} + x^{13} + x^{12} + x^8 + x^5 + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2048	[3310, 3311]	4096	[5395, 3214]	6144	[7028, 756]
1	[3, 4]	2049	[3312, 1277]	4097	[2974, 1072]	6145	[4783, 6983]
2	[5, 6]	2050	[3313, 3314]	4098	[5396, 453]	6146	[774, 2055]
3	[7, 8]	2051	[3315, 1554]	4099	[5397, 3800]	6147	[7029, 4058]
4	[9, 10]	2052	[3316, 3317]	4100	[3879, 5398]	6148	[7030, 5047]
5	[11, 12]	2053	[3318, 3319]	4101	[5399, 2847]	6149	[7031, 2555]
6	[13, 14]	2054	[3320, 960]	4102	[5400, 3823]	6150	[7032, 1843]
7	[15, 16]	2055	[3321, 3322]	4103	[5401, 3097]	6151	[7033, 1971]
8	[17, 18]	2056	[72, 3323]	4104	[5402, 3858]	6152	[1739, 2668]
9	[19, 20]	2057	[3324, 3325]	4105	[5403, 1257]	6153	[2120, 6633]
10	[21, 22]	2058	[3326, 3327]	4106	[5404, 249]	6154	[7034, 504]
11	[23, 24]	2059	[3328, 3329]	4107	[5405, 5406]	6155	[1982, 5111]
12	[25, 26]	2060	[3330, 3331]	4108	[1068, 3715]	6156	[7035, 7036]
13	[27, 28]	2061	[929, 1266]	4109	[5407, 3377]	6157	[7037, 2609]
14	[29, 30]	2062	[3332, 3333]	4110	[2777, 2909]	6158	[4375, 6765]
15	[31, 32]	2063	[905, 2992]	4111	[5369, 5408]	6159	[7038, 4722]
16	[33, 34]	2064	[984, 3334]	4112	[5409, 1219]	6160	[4594, 4093]

17	[35, 36]	2065	[3335, 3336]	4113	[5410, 3914]	6161	[7039, 2195]
18	[37, 38]	2066	[3337, 70]	4114	[1573, 5411]	6162	[6827, 6673]
19	[39, 40]	2067	[3338, 3339]	4115	[3161, 1175]	6163	[7040, 4240]
20	[41, 42]	2068	[1333, 3340]	4116	[5412, 1241]	6164	[2139, 5323]
21	[43, 44]	2069	[3341, 248]	4117	[5413, 1327]	6165	[2116, 5233]
22	[45, 46]	2070	[3342, 435]	4118	[5414, 5415]	6166	[2098, 4480]
23	[47, 48]	2071	[3343, 3013]	4119	[5416, 5417]	6167	[7041, 2180]
24	[49, 50]	2072	[3344, 3345]	4120	[3044, 3235]	6168	[6557, 4681]
25	[51, 52]	2073	[3346, 3039]	4121	[5418, 3204]	6169	[6456, 6658]
26	[53, 54]	2074	[3347, 3348]	4122	[2886, 3558]	6170	[7042, 800]
27	[55, 56]	2075	[3349, 3350]	4123	[5419, 5383]	6171	[4428, 4968]
28	[57, 58]	2076	[3351, 3056]	4124	[5420, 5421]	6172	[7043, 6916]
29	[59, 60]	2077	[3352, 285]	4125	[298, 5422]	6173	[6954, 6587]
30	[61, 62]	2078	[3353, 3354]	4126	[5423, 5424]	6174	[695, 2006]
31	[63, 64]	2079	[1474, 3355]	4127	[1625, 5425]	6175	[7044, 4551]
32	[65, 66]	2080	[3356, 3357]	4128	[5426, 1356]	6176	[7045, 7046]
33	[67, 68]	2081	[3358, 424]	4129	[5427, 5428]	6177	[7047, 169]
34	[69, 70]	2082	[965, 3359]	4130	[3261, 3238]	6178	[7048, 2117]
35	[71, 72]	2083	[3360, 2916]	4131	[5429, 1566]	6179	[7049, 2097]
36	[73, 74]	2084	[3361, 1004]	4132	[2742, 3959]	6180	[7050, 4334]
37	[75, 76]	2085	[3362, 3363]	4133	[5430, 3879]	6181	[5339, 1883]
38	[77, 78]	2086	[1156, 3324]	4134	[5431, 335]	6182	[7051, 7046]
39	[79, 80]	2087	[3364, 3220]	4135	[5432, 1182]	6183	[7052, 1631]
40	[81, 82]	2088	[1084, 3365]	4136	[3391, 1519]	6184	[7053, 4453]
41	[83, 84]	2089	[3366, 454]	4137	[5433, 24]	6185	[7054, 6412]
42	[85, 86]	2090	[1353, 3367]	4138	[1119, 3054]	6186	[7055, 6716]
43	[87, 88]	2091	[3368, 3077]	4139	[5434, 389]	6187	[7056, 4587]
44	[89, 90]	2092	[3369, 3370]	4140	[5435, 3798]	6188	[7057, 7058]
45	[91, 92]	2093	[3371, 3372]	4141	[2703, 3843]	6189	[7059, 7060]
46	[93, 94]	2094	[2993, 3373]	4142	[5436, 5437]	6190	[7061, 6522]
47	[95, 96]	2095	[913, 3374]	4143	[5438, 5422]	6191	[7062, 1933]
48	[97, 98]	2096	[267, 3375]	4144	[5439, 5440]	6192	[7063, 4130]
49	[99, 100]	2097	[3376, 1145]	4145	[3794, 3508]	6193	[2393, 5289]
50	[101, 102]	2098	[1204, 3377]	4146	[5441, 3922]	6194	[7064, 517]
51	[103, 104]	2099	[66, 986]	4147	[3847, 3590]	6195	[4729, 2433]
52	[105, 106]	2100	[3378, 2739]	4148	[5442, 5443]	6196	[7065, 1787]
53	[107, 108]	2101	[3379, 2741]	4149	[404, 3091]	6197	[5265, 4310]
54	[109, 20]	2102	[3380, 6]	4150	[5444, 5445]	6198	[4213, 847]
55	[110, 111]	2103	[3381, 3380]	4151	[5446, 346]	6199	[7066, 4118]
56	[112, 113]	2104	[3382, 3383]	4152	[5447, 5448]	6200	[4839, 4522]
57	[114, 115]	2105	[3384, 1252]	4153	[5449, 3404]	6201	[7067, 2002]
58	[116, 117]	2106	[3385, 2900]	4154	[5450, 5445]	6202	[1785, 5017]
59	[118, 119]	2107	[3386, 953]	4155	[5451, 2943]	6203	[7068, 6542]
60	[120, 121]	2108	[3387, 3388]	4156	[5452, 1143]	6204	[7069, 2264]

61	[122, 123]	2109	[3389, 1049]	4157	[3545, 112]	6205	[7070, 2357]
62	[124, 125]	2110	[3390, 303]	4158	[3981, 3679]	6206	[7071, 755]
63	[126, 127]	2111	[944, 3391]	4159	[5453, 933]	6207	[7072, 5289]
64	[128, 129]	2112	[3392, 3393]	4160	[283, 5454]	6208	[7073, 5242]
65	[130, 131]	2113	[3394, 3395]	4161	[5455, 5456]	6209	[1761, 4385]
66	[132, 133]	2114	[1161, 3396]	4162	[1206, 335]	6210	[7074, 6441]
67	[134, 135]	2115	[3397, 358]	4163	[5457, 5458]	6211	[7075, 6657]
68	[136, 137]	2116	[3398, 3399]	4164	[1099, 5459]	6212	[1804, 4727]
69	[138, 139]	2117	[3400, 2951]	4165	[5460, 5461]	6213	[7076, 5314]
70	[140, 141]	2118	[1143, 2703]	4166	[1163, 4028]	6214	[7077, 1675]
71	[142, 143]	2119	[3401, 3402]	4167	[2923, 3344]	6215	[7078, 4199]
72	[144, 145]	2120	[3403, 3404]	4168	[5462, 1322]	6216	[2662, 4958]
73	[146, 147]	2121	[3405, 1209]	4169	[5463, 5464]	6217	[7079, 4372]
74	[148, 149]	2122	[1194, 3406]	4170	[1554, 21]	6218	[7080, 247]
75	[150, 151]	2123	[3407, 328]	4171	[465, 5427]	6219	[6938, 2444]
76	[152, 153]	2124	[3408, 3409]	4172	[5465, 2809]	6220	[7081, 6520]
77	[154, 155]	2125	[3410, 3180]	4173	[5466, 3760]	6221	[2504, 4827]
78	[156, 157]	2126	[3411, 3181]	4174	[5467, 5468]	6222	[6525, 4693]
79	[158, 159]	2127	[3412, 3151]	4175	[5469, 5470]	6223	[4310, 4807]
80	[137, 160]	2128	[3413, 3414]	4176	[5344, 1543]	6224	[7082, 7083]
81	[161, 162]	2129	[3415, 1006]	4177	[5471, 5472]	6225	[7084, 2278]
82	[163, 164]	2130	[3416, 3417]	4178	[104, 1458]	6226	[2359, 5074]
83	[165, 166]	2131	[3418, 3419]	4179	[5473, 3873]	6227	[7085, 6966]
84	[167, 168]	2132	[3420, 3421]	4180	[5474, 2851]	6228	[6774, 478]
85	[169, 170]	2133	[1368, 1127]	4181	[950, 1486]	6229	[7086, 5039]
86	[171, 172]	2134	[1355, 3422]	4182	[5475, 3225]	6230	[2653, 4719]
87	[173, 54]	2135	[3423, 3264]	4183	[5476, 5459]	6231	[2079, 4853]
88	[174, 175]	2136	[1242, 3424]	4184	[5477, 3678]	6232	[6523, 5142]
89	[176, 177]	2137	[3425, 370]	4185	[5478, 2979]	6233	[4175, 6850]
90	[178, 179]	2138	[3426, 1530]	4186	[5479, 2997]	6234	[7087, 2079]
91	[180, 181]	2139	[3427, 2825]	4187	[5480, 3843]	6235	[4688, 4189]
92	[182, 183]	2140	[3428, 3429]	4188	[5481, 357]	6236	[5160, 211]
93	[184, 185]	2141	[3430, 3431]	4189	[5482, 450]	6237	[7088, 4067]
94	[186, 187]	2142	[3432, 3433]	4190	[3582, 3293]	6238	[7089, 6608]
95	[188, 189]	2143	[326, 3254]	4191	[5483, 5364]	6239	[6673, 1873]
96	[190, 191]	2144	[3434, 3435]	4192	[5484, 5377]	6240	[7090, 4554]
97	[192, 193]	2145	[3436, 3437]	4193	[5485, 3597]	6241	[7091, 4295]
98	[194, 195]	2146	[3438, 3439]	4194	[2826, 1012]	6242	[7092, 4365]
99	[196, 197]	2147	[3440, 3441]	4195	[1294, 292]	6243	[2357, 4378]
100	[198, 199]	2148	[3442, 3443]	4196	[977, 5486]	6244	[4346, 4576]
101	[200, 152]	2149	[3444, 3159]	4197	[5487, 3905]	6245	[1775, 6568]
102	[201, 202]	2150	[3445, 3446]	4198	[5488, 3262]	6246	[4092, 5177]
103	[203, 204]	2151	[1154, 3447]	4199	[5489, 3295]	6247	[7093, 6827]
104	[205, 206]	2152	[3448, 3449]	4200	[2963, 2896]	6248	[7094, 5046]

105	[207, 208]	2153	[3450, 3451]	4201	[5490, 904]	6249	[7095, 4908]
106	[209, 210]	2154	[1341, 444]	4202	[5376, 3904]	6250	[2188, 737]
107	[211, 212]	2155	[3452, 390]	4203	[5491, 5492]	6251	[6794, 2554]
108	[213, 214]	2156	[3453, 3254]	4204	[5493, 3389]	6252	[1755, 134]
109	[215, 216]	2157	[3454, 3455]	4205	[5494, 5495]	6253	[707, 2654]
110	[217, 218]	2158	[96, 3456]	4206	[5496, 1013]	6254	[5198, 7096]
111	[219, 220]	2159	[100, 3457]	4207	[5497, 3405]	6255	[187, 4240]
112	[221, 222]	2160	[3458, 3416]	4208	[5498, 1012]	6256	[7097, 5236]
113	[223, 224]	2161	[3459, 3439]	4209	[3122, 5499]	6257	[1746, 6656]
114	[225, 131]	2162	[3460, 3461]	4210	[5500, 27]	6258	[6850, 6480]
115	[226, 227]	2163	[3462, 2867]	4211	[5501, 5502]	6259	[1866, 7098]
116	[228, 229]	2164	[3463, 3464]	4212	[2761, 362]	6260	[4368, 2575]
117	[230, 231]	2165	[1509, 1340]	4213	[1339, 1537]	6261	[2500, 4640]
118	[232, 233]	2166	[3465, 1570]	4214	[2914, 5503]	6262	[7099, 2132]
119	[234, 235]	2167	[1064, 3466]	4215	[5504, 1543]	6263	[4863, 6443]
120	[236, 237]	2168	[3467, 380]	4216	[5505, 1273]	6264	[7100, 4727]
121	[238, 239]	2169	[3468, 3469]	4217	[5506, 1520]	6265	[7101, 4267]
122	[240, 241]	2170	[2937, 915]	4218	[5507, 5508]	6266	[7102, 6757]
123	[242, 243]	2171	[3470, 3471]	4219	[5509, 5510]	6267	[2170, 7103]
124	[244, 245]	2172	[1192, 3472]	4220	[5511, 124]	6268	[7104, 7105]
125	[246, 247]	2173	[2744, 3473]	4221	[5512, 1427]	6269	[7106, 784]
126	[248, 249]	2174	[3474, 2966]	4222	[5513, 1327]	6270	[7107, 4390]
127	[250, 251]	2175	[3475, 1480]	4223	[5514, 5515]	6271	[6994, 4039]
128	[252, 253]	2176	[3476, 1310]	4224	[3086, 3905]	6272	[7108, 507]
129	[254, 255]	2177	[3477, 3478]	4225	[5516, 1096]	6273	[7109, 7105]
130	[256, 257]	2178	[3479, 2959]	4226	[3558, 354]	6274	[7110, 5323]
131	[258, 259]	2179	[3480, 263]	4227	[1082, 5517]	6275	[7111, 6579]
132	[260, 261]	2180	[3481, 3482]	4228	[5518, 1412]	6276	[7112, 1935]
133	[262, 263]	2181	[3483, 3484]	4229	[5519, 349]	6277	[7113, 6789]
134	[264, 265]	2182	[3485, 3083]	4230	[5520, 5521]	6278	[870, 4824]
135	[266, 267]	2183	[3486, 2762]	4231	[5522, 3197]	6279	[4779, 2377]
136	[268, 269]	2184	[3487, 3488]	4232	[5458, 5523]	6280	[7098, 4878]
137	[270, 271]	2185	[2893, 3489]	4233	[3945, 5524]	6281	[7114, 1900]
138	[272, 273]	2186	[3171, 1513]	4234	[5525, 3892]	6282	[7115, 6858]
139	[274, 275]	2187	[2941, 3385]	4235	[5526, 3267]	6283	[7116, 4356]
140	[275, 276]	2188	[3329, 1361]	4236	[5527, 2944]	6284	[4438, 6831]
141	[277, 278]	2189	[1321, 989]	4237	[5528, 1025]	6285	[7117, 6725]
142	[279, 67]	2190	[3490, 3491]	4238	[3182, 2778]	6286	[767, 1974]
143	[280, 281]	2191	[3492, 3493]	4239	[5529, 3863]	6287	[4457, 6686]
144	[282, 283]	2192	[3494, 1216]	4240	[5530, 943]	6288	[4269, 2579]
145	[284, 285]	2193	[3244, 3495]	4241	[3568, 3123]	6289	[6657, 4263]
146	[286, 287]	2194	[3496, 3495]	4242	[5531, 3068]	6290	[7118, 617]
147	[288, 289]	2195	[1351, 2927]	4243	[5532, 5533]	6291	[4641, 1787]
148	[290, 291]	2196	[3497, 3498]	4244	[5534, 3988]	6292	[4744, 5326]

149	[292, 293]	2197	[3499, 3500]	4245	[5535, 3060]	6293	[6983, 7119]
150	[294, 295]	2198	[3501, 3430]	4246	[1325, 323]	6294	[4276, 2180]
151	[296, 23]	2199	[3502, 3478]	4247	[5536, 348]	6295	[6545, 5146]
152	[297, 298]	2200	[960, 107]	4248	[5537, 5538]	6296	[7120, 6525]
153	[299, 300]	2201	[3503, 1469]	4249	[1236, 3739]	6297	[6560, 5192]
154	[301, 302]	2202	[2716, 1297]	4250	[5539, 3520]	6298	[7121, 2632]
155	[303, 304]	2203	[1210, 1430]	4251	[5540, 5541]	6299	[6907, 2407]
156	[305, 306]	2204	[1623, 3025]	4252	[1478, 3083]	6300	[7122, 2017]
157	[300, 307]	2205	[3504, 908]	4253	[5542, 5543]	6301	[7123, 7124]
158	[308, 309]	2206	[76, 3505]	4254	[5544, 3358]	6302	[7125, 6746]
159	[310, 297]	2207	[3506, 3507]	4255	[5545, 3707]	6303	[4690, 6436]
160	[311, 312]	2208	[3508, 943]	4256	[3435, 3890]	6304	[7126, 7127]
161	[313, 314]	2209	[3509, 3510]	4257	[5546, 3707]	6305	[6637, 6751]
162	[315, 316]	2210	[3511, 3512]	4258	[5547, 2718]	6306	[4702, 2634]
163	[317, 318]	2211	[3372, 3004]	4259	[5548, 468]	6307	[7128, 7129]
164	[319, 320]	2212	[3513, 3027]	4260	[5549, 3246]	6308	[7130, 4432]
165	[321, 322]	2213	[3514, 3044]	4261	[5550, 987]	6309	[4246, 4729]
166	[323, 324]	2214	[3515, 122]	4262	[5551, 1020]	6310	[7131, 737]
167	[325, 326]	2215	[3279, 3516]	4263	[5552, 5553]	6311	[4683, 4776]
168	[327, 328]	2216	[3280, 3517]	4264	[5554, 2848]	6312	[7132, 5035]
169	[329, 330]	2217	[3518, 3519]	4265	[5555, 415]	6313	[44, 6560]
170	[331, 332]	2218	[3520, 1009]	4266	[5556, 3940]	6314	[7133, 4851]
171	[333, 334]	2219	[3521, 1601]	4267	[5557, 5535]	6315	[7134, 4542]
172	[335, 336]	2220	[1531, 3522]	4268	[5558, 1512]	6316	[2122, 694]
173	[337, 338]	2221	[3523, 3524]	4269	[5559, 3912]	6317	[5243, 769]
174	[339, 340]	2222	[3525, 3526]	4270	[5560, 3210]	6318	[7135, 166]
175	[341, 342]	2223	[3527, 3528]	4271	[5561, 1129]	6319	[7136, 2043]
176	[343, 344]	2224	[3529, 2980]	4272	[4025, 5562]	6320	[7137, 5142]
177	[345, 346]	2225	[3179, 87]	4273	[5563, 3010]	6321	[7138, 2532]
178	[347, 348]	2226	[2891, 2835]	4274	[5385, 456]	6322	[7139, 2443]
179	[349, 350]	2227	[3530, 3531]	4275	[5564, 2799]	6323	[6909, 4144]
180	[351, 352]	2228	[3500, 1618]	4276	[5565, 3058]	6324	[7140, 5212]
181	[353, 337]	2229	[3532, 3533]	4277	[5566, 938]	6325	[511, 6592]
182	[354, 355]	2230	[3534, 1420]	4278	[3203, 5567]	6326	[2219, 1688]
183	[356, 357]	2231	[3237, 120]	4279	[5568, 5569]	6327	[7141, 7142]
184	[358, 359]	2232	[1593, 3535]	4280	[5570, 312]	6328	[5144, 7143]
185	[360, 361]	2233	[1435, 3437]	4281	[2933, 1083]	6329	[7144, 4878]
186	[362, 363]	2234	[3536, 1207]	4282	[5571, 3611]	6330	[2319, 4225]
187	[364, 365]	2235	[2803, 3259]	4283	[5572, 3045]	6331	[7145, 4415]
188	[366, 367]	2236	[3537, 1063]	4284	[1411, 1118]	6332	[7146, 4276]
189	[368, 369]	2237	[3538, 3539]	4285	[371, 5458]	6333	[7147, 7045]
190	[370, 371]	2238	[3540, 1618]	4286	[5573, 456]	6334	[7148, 6775]
191	[372, 373]	2239	[3541, 274]	4287	[5574, 5575]	6335	[7149, 2163]
192	[374, 375]	2240	[369, 3542]	4288	[3323, 2807]	6336	[4443, 4625]

193	[376, 377]	2241	[3543, 3426]	4289	[5576, 3366]	6337	[7150, 1698]
194	[378, 379]	2242	[3544, 3545]	4290	[2842, 2762]	6338	[7151, 6549]
195	[380, 381]	2243	[3158, 957]	4291	[3309, 64]	6339	[2673, 2503]
196	[382, 383]	2244	[3546, 3547]	4292	[3881, 82]	6340	[7152, 812]
197	[384, 385]	2245	[3548, 3549]	4293	[3768, 5577]	6341	[6589, 4174]
198	[386, 387]	2246	[3550, 3551]	4294	[5578, 3425]	6342	[6951, 2205]
199	[84, 388]	2247	[3552, 3381]	4295	[5579, 5580]	6343	[4459, 6916]
200	[389, 390]	2248	[28, 3553]	4296	[5581, 3375]	6344	[4937, 2670]
201	[391, 392]	2249	[3554, 84]	4297	[5582, 3313]	6345	[7153, 144]
202	[393, 394]	2250	[1128, 2728]	4298	[5583, 1005]	6346	[1712, 5240]
203	[395, 396]	2251	[3555, 30]	4299	[5584, 3144]	6347	[4449, 4185]
204	[397, 398]	2252	[3556, 458]	4300	[5585, 2756]	6348	[4124, 4802]
205	[399, 400]	2253	[2701, 3362]	4301	[3922, 5586]	6349	[7003, 4655]
206	[401, 402]	2254	[3557, 3558]	4302	[1503, 5587]	6350	[2406, 12]
207	[403, 404]	2255	[3559, 924]	4303	[1560, 5588]	6351	[7154, 181]
208	[405, 406]	2256	[3560, 1309]	4304	[5589, 5590]	6352	[788, 6615]
209	[407, 396]	2257	[3561, 3562]	4305	[3007, 922]	6353	[7155, 2301]
210	[408, 409]	2258	[3563, 3564]	4306	[5591, 1124]	6354	[4970, 7156]
211	[410, 411]	2259	[3565, 86]	4307	[5592, 1300]	6355	[7157, 2037]
212	[412, 248]	2260	[1223, 3300]	4308	[5593, 1173]	6356	[6899, 6485]
213	[413, 414]	2261	[3566, 433]	4309	[5594, 5398]	6357	[7158, 670]
214	[415, 416]	2262	[3567, 3568]	4310	[1419, 3338]	6358	[7159, 1865]
215	[417, 22]	2263	[3569, 2854]	4311	[5595, 3727]	6359	[822, 4889]
216	[249, 418]	2264	[3570, 3069]	4312	[5596, 2852]	6360	[4896, 6649]
217	[419, 420]	2265	[3571, 1001]	4313	[3012, 3085]	6361	[7160, 5188]
218	[421, 422]	2266	[3572, 3573]	4314	[3117, 1576]	6362	[840, 4469]
219	[423, 424]	2267	[3574, 409]	4315	[5597, 2988]	6363	[7161, 6436]
220	[425, 426]	2268	[3575, 1218]	4316	[5598, 5599]	6364	[818, 5173]
221	[427, 428]	2269	[2785, 3503]	4317	[5600, 1182]	6365	[7162, 6909]
222	[429, 430]	2270	[1443, 383]	4318	[5601, 1063]	6366	[7163, 6416]
223	[431, 432]	2271	[2809, 3576]	4319	[3124, 124]	6367	[7164, 6420]
224	[433, 434]	2272	[3577, 3578]	4320	[5602, 3834]	6368	[7165, 4142]
225	[435, 436]	2273	[3579, 3081]	4321	[5603, 3573]	6369	[4589, 6640]
226	[437, 317]	2274	[3580, 1380]	4322	[5604, 5605]	6370	[7166, 1679]
227	[285, 438]	2275	[3581, 3582]	4323	[3319, 1587]	6371	[7167, 765]
228	[439, 440]	2276	[1314, 280]	4324	[3471, 3068]	6372	[7168, 4372]
229	[441, 442]	2277	[80, 1410]	4325	[5606, 5432]	6373	[1667, 7129]
230	[443, 444]	2278	[3583, 3584]	4326	[5607, 1168]	6374	[7169, 4844]
231	[261, 445]	2279	[2930, 1158]	4327	[5608, 5609]	6375	[2090, 4044]
232	[446, 447]	2280	[1056, 3585]	4328	[5610, 5611]	6376	[7170, 2529]
233	[448, 449]	2281	[3586, 1333]	4329	[973, 5450]	6377	[5011, 6974]
234	[450, 451]	2282	[3587, 3588]	4330	[5612, 5613]	6378	[6600, 6741]
235	[452, 453]	2283	[3589, 355]	4331	[5569, 1559]	6379	[7171, 4599]
236	[454, 455]	2284	[3590, 3591]	4332	[5614, 5615]	6380	[7172, 4806]

237	[456, 457]	2285	[3592, 475]	4333	[5616, 3849]	6381	[7173, 823]
238	[458, 459]	2286	[3593, 1199]	4334	[2907, 5617]	6382	[6577, 6772]
239	[460, 461]	2287	[3281, 1565]	4335	[5618, 1455]	6383	[7174, 2588]
240	[462, 463]	2288	[3594, 3331]	4336	[5360, 5619]	6384	[7175, 5023]
241	[464, 465]	2289	[324, 3595]	4337	[1088, 3228]	6385	[2452, 4835]
242	[466, 467]	2290	[1594, 1008]	4338	[1274, 5351]	6386	[4528, 676]
243	[468, 469]	2291	[3596, 3597]	4339	[5620, 1295]	6387	[7176, 2695]
244	[470, 471]	2292	[3598, 3599]	4340	[1497, 3031]	6388	[2552, 2155]
245	[472, 473]	2293	[2970, 1582]	4341	[5621, 3153]	6389	[7177, 2149]
246	[474, 475]	2294	[3600, 3601]	4342	[5622, 5402]	6390	[7178, 6790]
247	[476, 477]	2295	[3602, 3603]	4343	[5615, 1408]	6391	[795, 7111]
248	[478, 479]	2296	[3604, 3605]	4344	[2894, 67]	6392	[7179, 4231]
249	[480, 481]	2297	[276, 3606]	4345	[5623, 1307]	6393	[7180, 7181]
250	[482, 483]	2298	[3607, 3608]	4346	[3234, 5624]	6394	[4409, 2641]
251	[484, 485]	2299	[3609, 3318]	4347	[5625, 1231]	6395	[2272, 6745]
252	[486, 487]	2300	[1035, 1079]	4348	[5626, 1389]	6396	[6966, 144]
253	[488, 489]	2301	[3610, 2923]	4349	[1228, 3886]	6397	[7182, 7096]
254	[490, 491]	2302	[1401, 3023]	4350	[5627, 5558]	6398	[7156, 2278]
255	[492, 493]	2303	[3201, 1301]	4351	[5628, 3491]	6399	[7183, 4915]
256	[494, 495]	2304	[3611, 3578]	4352	[1037, 345]	6400	[7184, 2503]
257	[496, 497]	2305	[1148, 3612]	4353	[5629, 3222]	6401	[7185, 802]
258	[498, 499]	2306	[2810, 3613]	4354	[5630, 4014]	6402	[7186, 891]
259	[500, 501]	2307	[3614, 3274]	4355	[2851, 5631]	6403	[7187, 2175]
260	[502, 503]	2308	[2888, 3615]	4356	[5632, 944]	6404	[6902, 4267]
261	[504, 505]	2309	[2725, 3616]	4357	[5633, 5634]	6405	[6668, 4279]
262	[506, 507]	2310	[3617, 3618]	4358	[4036, 2884]	6406	[7188, 7189]
263	[508, 509]	2311	[3619, 3620]	4359	[5635, 429]	6407	[7190, 589]
264	[510, 511]	2312	[3621, 421]	4360	[3461, 5636]	6408	[7191, 503]
265	[512, 513]	2313	[1136, 3622]	4361	[1449, 5637]	6409	[7192, 5184]
266	[514, 515]	2314	[3623, 1552]	4362	[5638, 3177]	6410	[3535, 1286]
267	[516, 517]	2315	[1208, 3624]	4363	[5639, 1307]	6411	[7193, 2722]
268	[518, 519]	2316	[3331, 3173]	4364	[5640, 5641]	6412	[7194, 6046]
269	[520, 521]	2317	[3625, 3626]	4365	[5642, 1516]	6413	[7195, 2734]
270	[522, 523]	2318	[436, 3627]	4366	[3618, 2982]	6414	[1166, 1259]
271	[524, 525]	2319	[3628, 1492]	4367	[5643, 2774]	6415	[6214, 3881]
272	[526, 527]	2320	[3629, 3537]	4368	[3939, 333]	6416	[7196, 7197]
273	[528, 529]	2321	[3630, 3465]	4369	[5644, 1313]	6417	[7198, 7199]
274	[530, 531]	2322	[3631, 3052]	4370	[3549, 3500]	6418	[7200, 1060]
275	[532, 533]	2323	[3632, 3097]	4371	[2787, 2878]	6419	[7201, 3867]
276	[531, 534]	2324	[2915, 1600]	4372	[5645, 5646]	6420	[7202, 5939]
277	[535, 536]	2325	[3633, 3634]	4373	[3129, 5647]	6421	[7203, 85]
278	[537, 152]	2326	[907, 3136]	4374	[2935, 1505]	6422	[7204, 6304]
279	[538, 539]	2327	[3635, 1390]	4375	[5648, 3599]	6423	[7205, 381]
280	[540, 541]	2328	[3636, 3637]	4376	[5649, 1085]	6424	[3898, 1534]

281	[204, 542]	2329	[3638, 1382]	4377	[5650, 3340]	6425	[7206, 1296]
282	[543, 544]	2330	[3639, 3448]	4378	[5651, 1347]	6426	[7207, 3550]
283	[545, 546]	2331	[3640, 3153]	4379	[3859, 1321]	6427	[7208, 1619]
284	[547, 548]	2332	[3641, 1482]	4380	[5652, 1471]	6428	[7209, 3250]
285	[549, 550]	2333	[3642, 3118]	4381	[5653, 5654]	6429	[7210, 3949]
286	[551, 552]	2334	[3643, 3451]	4382	[5655, 2972]	6430	[7211, 5495]
287	[553, 554]	2335	[3644, 3141]	4383	[5656, 5657]	6431	[6390, 5818]
288	[555, 556]	2336	[1170, 3645]	4384	[5387, 3812]	6432	[7212, 2914]
289	[557, 190]	2337	[3451, 3646]	4385	[5658, 1215]	6433	[7213, 5499]
290	[558, 559]	2338	[3647, 3648]	4386	[5659, 5660]	6434	[7214, 2937]
291	[560, 561]	2339	[3649, 3238]	4387	[5661, 377]	6435	[5541, 4011]
292	[562, 563]	2340	[3650, 3651]	4388	[3399, 3347]	6436	[7215, 5744]
293	[564, 565]	2341	[3505, 2964]	4389	[5662, 3200]	6437	[7216, 87]
294	[566, 567]	2342	[3652, 3653]	4390	[5663, 3658]	6438	[2718, 3440]
295	[568, 569]	2343	[3654, 2787]	4391	[5664, 3845]	6439	[7217, 1529]
296	[570, 571]	2344	[64, 3655]	4392	[5665, 1443]	6440	[6175, 926]
297	[572, 573]	2345	[3656, 3657]	4393	[1020, 3112]	6441	[7218, 7204]
298	[574, 575]	2346	[3658, 3403]	4394	[5666, 3713]	6442	[7219, 74]
299	[576, 577]	2347	[3659, 3660]	4395	[5667, 929]	6443	[7220, 5509]
300	[578, 579]	2348	[1405, 3661]	4396	[5668, 3962]	6444	[3290, 3262]
301	[580, 129]	2349	[1403, 3605]	4397	[2754, 5669]	6445	[4006, 5810]
302	[581, 582]	2350	[3662, 3387]	4398	[5670, 1368]	6446	[1504, 3021]
303	[583, 584]	2351	[917, 3663]	4399	[5671, 5672]	6447	[3913, 3729]
304	[585, 586]	2352	[3664, 3122]	4400	[5673, 1073]	6448	[7221, 2770]
305	[587, 588]	2353	[3665, 3666]	4401	[5674, 1075]	6449	[7222, 1080]
306	[589, 590]	2354	[3667, 3668]	4402	[5675, 1121]	6450	[7223, 2997]
307	[591, 592]	2355	[3669, 310]	4403	[4035, 5676]	6451	[1558, 1373]
308	[593, 594]	2356	[3670, 3241]	4404	[5677, 3914]	6452	[3968, 1335]
309	[595, 596]	2357	[3671, 3672]	4405	[5678, 2712]	6453	[7224, 2753]
310	[597, 598]	2358	[3673, 3674]	4406	[5679, 431]	6454	[5524, 3253]
311	[599, 600]	2359	[3675, 3676]	4407	[5680, 3530]	6455	[5424, 7225]
312	[601, 602]	2360	[3677, 3678]	4408	[1482, 1167]	6456	[5788, 1241]
313	[603, 604]	2361	[3679, 3680]	4409	[5681, 3168]	6457	[7226, 2971]
314	[605, 606]	2362	[3681, 928]	4410	[5682, 2771]	6458	[7227, 2921]
315	[607, 608]	2363	[3682, 3683]	4411	[1132, 5683]	6459	[7228, 6032]
316	[609, 610]	2364	[3684, 2995]	4412	[5684, 3133]	6460	[7229, 3518]
317	[611, 612]	2365	[1101, 3685]	4413	[5685, 1573]	6461	[7230, 946]
318	[613, 614]	2366	[3686, 3687]	4414	[3215, 3446]	6462	[7231, 2893]
319	[615, 616]	2367	[3021, 3688]	4415	[5686, 5687]	6463	[3028, 1347]
320	[617, 618]	2368	[3689, 2968]	4416	[5688, 1336]	6464	[7232, 1341]
321	[619, 620]	2369	[1260, 3690]	4417	[3072, 5560]	6465	[7233, 3391]
322	[621, 622]	2370	[1493, 3691]	4418	[3840, 3159]	6466	[7234, 3023]
323	[623, 624]	2371	[3692, 2808]	4419	[3277, 1445]	6467	[432, 7235]
324	[625, 626]	2372	[1378, 3693]	4420	[1078, 3110]	6468	[1495, 3950]

325	[627, 628]	2373	[3694, 3695]	4421	[5689, 3681]	6469	[7236, 1604]
326	[629, 630]	2374	[3696, 1019]	4422	[5690, 948]	6470	[7237, 3852]
327	[631, 632]	2375	[3697, 2845]	4423	[5691, 2751]	6471	[7238, 3724]
328	[633, 634]	2376	[3698, 997]	4424	[5692, 1525]	6472	[7239, 3894]
329	[635, 636]	2377	[3699, 3700]	4425	[5693, 5694]	6473	[7240, 7241]
330	[637, 638]	2378	[3660, 2811]	4426	[3712, 5695]	6474	[7242, 5509]
331	[639, 640]	2379	[3701, 3702]	4427	[5696, 5545]	6475	[7243, 1084]
332	[641, 642]	2380	[295, 3628]	4428	[5697, 1054]	6476	[7244, 5944]
333	[643, 644]	2381	[3703, 3484]	4429	[5698, 3548]	6477	[7245, 947]
334	[645, 646]	2382	[3704, 3705]	4430	[5699, 1046]	6478	[7246, 400]
335	[647, 648]	2383	[3706, 3231]	4431	[5700, 307]	6479	[6168, 7247]
336	[649, 650]	2384	[3373, 3559]	4432	[5701, 926]	6480	[3307, 5467]
337	[651, 652]	2385	[3707, 93]	4433	[1575, 3798]	6481	[7248, 6091]
338	[653, 137]	2386	[2879, 3708]	4434	[3219, 2716]	6482	[7249, 3601]
339	[654, 655]	2387	[3709, 1029]	4435	[5702, 1550]	6483	[7250, 2748]
340	[656, 657]	2388	[430, 3621]	4436	[409, 3510]	6484	[7251, 1408]
341	[658, 659]	2389	[1090, 1384]	4437	[5703, 1028]	6485	[7252, 7253]
342	[660, 661]	2390	[3710, 3409]	4438	[1453, 3566]	6486	[7225, 3493]
343	[662, 663]	2391	[3711, 3076]	4439	[5704, 1271]	6487	[4012, 2986]
344	[664, 665]	2392	[2995, 2977]	4440	[383, 3964]	6488	[7254, 3740]
345	[666, 667]	2393	[3685, 3712]	4441	[385, 5705]	6489	[7255, 3281]
346	[199, 668]	2394	[2763, 3713]	4442	[5706, 5707]	6490	[7256, 1213]
347	[642, 669]	2395	[1581, 2804]	4443	[1556, 5708]	6491	[7257, 1156]
348	[670, 671]	2396	[361, 1453]	4444	[5709, 370]	6492	[7258, 362]
349	[672, 145]	2397	[3714, 3715]	4445	[5710, 3507]	6493	[7259, 5562]
350	[673, 674]	2398	[3716, 3717]	4446	[5711, 68]	6494	[7260, 7235]
351	[675, 676]	2399	[3718, 3580]	4447	[350, 2877]	6495	[3772, 2726]
352	[677, 678]	2400	[1138, 3719]	4448	[5712, 3174]	6496	[3844, 2942]
353	[679, 653]	2401	[3720, 3338]	4449	[1302, 5479]	6497	[2998, 3620]
354	[680, 133]	2402	[3096, 3721]	4450	[5599, 3072]	6498	[7261, 3184]
355	[681, 682]	2403	[3722, 3723]	4451	[5713, 5508]	6499	[7262, 2826]
356	[683, 684]	2404	[3724, 3176]	4452	[5714, 5715]	6500	[7263, 1205]
357	[685, 686]	2405	[3725, 3726]	4453	[5716, 2925]	6501	[3088, 1439]
358	[687, 688]	2406	[981, 3727]	4454	[5717, 5589]	6502	[2766, 6159]
359	[689, 597]	2407	[3728, 3729]	4455	[5718, 1531]	6503	[7264, 7242]
360	[690, 691]	2408	[3395, 3329]	4456	[5719, 2962]	6504	[7265, 3323]
361	[692, 693]	2409	[3730, 3731]	4457	[5720, 3778]	6505	[7266, 2947]
362	[694, 695]	2410	[1179, 3732]	4458	[5721, 270]	6506	[7267, 3362]
363	[696, 697]	2411	[3733, 3442]	4459	[3456, 3609]	6507	[7268, 1326]
364	[698, 699]	2412	[3734, 1319]	4460	[5722, 2978]	6508	[7269, 6056]
365	[700, 701]	2413	[3735, 3590]	4461	[5523, 5497]	6509	[251, 5440]
366	[702, 703]	2414	[3736, 3737]	4462	[5723, 5577]	6510	[7270, 2936]
367	[704, 705]	2415	[3030, 3738]	4463	[5724, 983]	6511	[2748, 2854]
368	[706, 707]	2416	[3388, 77]	4464	[5725, 3505]	6512	[7271, 3526]

369	[708, 709]	2417	[2795, 1468]	4465	[3472, 2936]	6513	[7272, 1601]
370	[710, 206]	2418	[3739, 3740]	4466	[5726, 5727]	6514	[6065, 1221]
371	[711, 712]	2419	[3741, 3742]	4467	[3061, 1605]	6515	[3708, 1496]
372	[713, 714]	2420	[1045, 3608]	4468	[3493, 1498]	6516	[5422, 7273]
373	[715, 716]	2421	[3743, 2832]	4469	[5728, 1596]	6517	[7274, 961]
374	[717, 718]	2422	[3744, 3745]	4470	[3729, 5395]	6518	[7275, 5587]
375	[719, 720]	2423	[3746, 3747]	4471	[5729, 3318]	6519	[3175, 2825]
376	[721, 722]	2424	[3748, 3359]	4472	[3955, 5730]	6520	[7276, 4018]
377	[723, 724]	2425	[2882, 1052]	4473	[5731, 2747]	6521	[2773, 3506]
378	[725, 183]	2426	[3749, 3750]	4474	[5732, 5733]	6522	[5846, 7277]
379	[726, 197]	2427	[3751, 1501]	4475	[3283, 3667]	6523	[5902, 6258]
380	[727, 728]	2428	[1031, 2944]	4476	[3713, 3562]	6524	[5362, 7278]
381	[729, 730]	2429	[3752, 364]	4477	[5734, 5735]	6525	[5533, 5748]
382	[731, 732]	2430	[3753, 2790]	4478	[5736, 1269]	6526	[5417, 7279]
383	[733, 734]	2431	[3754, 1201]	4479	[5737, 3967]	6527	[3208, 7211]
384	[735, 736]	2432	[3755, 3756]	4480	[5738, 3403]	6528	[3396, 5670]
385	[737, 738]	2433	[3757, 3411]	4481	[5739, 5611]	6529	[7280, 5889]
386	[739, 544]	2434	[3758, 23]	4482	[1588, 1244]	6530	[7281, 3063]
387	[740, 741]	2435	[3759, 3335]	4483	[5740, 5741]	6531	[7282, 2805]
388	[742, 743]	2436	[3760, 2861]	4484	[3024, 3669]	6532	[7283, 3014]
389	[744, 745]	2437	[3761, 3762]	4485	[2985, 1446]	6533	[5776, 5344]
390	[746, 177]	2438	[3763, 2803]	4486	[5742, 3156]	6534	[7284, 2746]
391	[747, 748]	2439	[3764, 3765]	4487	[5743, 1446]	6535	[3032, 3414]
392	[749, 750]	2440	[3136, 3766]	4488	[1348, 5744]	6536	[7285, 5578]
393	[751, 752]	2441	[3767, 3768]	4489	[5745, 3931]	6537	[7286, 1548]
394	[753, 754]	2442	[3769, 1551]	4490	[5746, 3717]	6538	[7287, 3294]
395	[755, 756]	2443	[3770, 3047]	4491	[416, 3116]	6539	[7288, 3780]
396	[757, 758]	2444	[3771, 3772]	4492	[5747, 5748]	6540	[1479, 3937]
397	[759, 760]	2445	[2752, 3724]	4493	[5749, 5750]	6541	[7289, 1365]
398	[761, 762]	2446	[3773, 3537]	4494	[5751, 3756]	6542	[7290, 3282]
399	[763, 8]	2447	[3774, 1061]	4495	[5752, 3176]	6543	[7291, 1470]
400	[764, 558]	2448	[3775, 2830]	4496	[1054, 1548]	6544	[7292, 3049]
401	[765, 766]	2449	[3776, 2957]	4497	[5753, 436]	6545	[7293, 5959]
402	[758, 767]	2450	[3777, 3521]	4498	[2807, 1191]	6546	[7294, 320]
403	[139, 768]	2451	[3778, 3779]	4499	[3637, 1261]	6547	[7295, 1586]
404	[769, 770]	2452	[940, 3780]	4500	[5754, 4004]	6548	[6304, 5538]
405	[771, 772]	2453	[3781, 1362]	4501	[5755, 5539]	6549	[7296, 3941]
406	[773, 774]	2454	[3782, 3783]	4502	[5756, 3]	6550	[7297, 5410]
407	[775, 776]	2455	[3784, 266]	4503	[3576, 1549]	6551	[7298, 2977]
408	[777, 778]	2456	[3785, 3786]	4504	[5757, 5637]	6552	[7299, 3142]
409	[779, 532]	2457	[3787, 3788]	4505	[5758, 1193]	6553	[7300, 1297]
410	[780, 781]	2458	[3789, 3379]	4506	[3246, 4030]	6554	[7301, 1301]
411	[782, 167]	2459	[3790, 1568]	4507	[5759, 3548]	6555	[7302, 2767]
412	[783, 784]	2460	[3370, 1235]	4508	[5760, 3512]	6556	[6302, 5946]

413	[785, 786]	2461	[3791, 378]	4509	[3786, 2814]	6557	[3762, 6341]
414	[787, 788]	2462	[2709, 3792]	4510	[5761, 474]	6558	[7303, 6277]
415	[789, 790]	2463	[3793, 3794]	4511	[1185, 2994]	6559	[3102, 3657]
416	[791, 792]	2464	[1041, 3229]	4512	[1566, 2946]	6560	[7304, 5387]
417	[793, 794]	2465	[3795, 1494]	4513	[5762, 3117]	6561	[5517, 3629]
418	[479, 795]	2466	[3079, 1369]	4514	[5763, 1130]	6562	[3726, 3900]
419	[796, 797]	2467	[3796, 3797]	4515	[5764, 3145]	6563	[7305, 6066]
420	[798, 799]	2468	[3798, 1502]	4516	[5765, 1041]	6564	[5962, 3995]
421	[800, 801]	2469	[3799, 464]	4517	[3873, 398]	6565	[7306, 1491]
422	[802, 803]	2470	[1282, 3614]	4518	[5766, 3615]	6566	[7307, 3099]
423	[804, 805]	2471	[3800, 945]	4519	[5502, 364]	6567	[287, 283]
424	[806, 807]	2472	[3801, 3802]	4520	[444, 277]	6568	[7308, 976]
425	[808, 809]	2473	[2699, 2990]	4521	[278, 75]	6569	[6180, 6381]
426	[810, 811]	2474	[3803, 2986]	4522	[5767, 1305]	6570	[7309, 3489]
427	[812, 813]	2475	[3804, 3805]	4523	[5768, 5561]	6571	[7310, 1062]
428	[12, 814]	2476	[3806, 3807]	4524	[344, 1557]	6572	[3990, 3412]
429	[815, 816]	2477	[3808, 1175]	4525	[5769, 3981]	6573	[5575, 251]
430	[817, 818]	2478	[3241, 1154]	4526	[5770, 5497]	6574	[7311, 3985]
431	[819, 820]	2479	[3809, 3810]	4527	[5771, 1539]	6575	[1102, 309]
432	[821, 822]	2480	[3811, 2903]	4528	[3810, 1620]	6576	[316, 5599]
433	[483, 823]	2481	[3812, 1393]	4529	[5772, 5773]	6577	[7312, 5953]
434	[824, 241]	2482	[1092, 2760]	4530	[5774, 3460]	6578	[7313, 1584]
435	[825, 826]	2483	[3813, 3814]	4531	[5775, 5776]	6579	[7314, 3490]
436	[827, 828]	2484	[3815, 1189]	4532	[5777, 3379]	6580	[3081, 3354]
437	[829, 830]	2485	[3816, 2761]	4533	[3424, 5778]	6581	[7315, 28]
438	[831, 832]	2486	[451, 3777]	4534	[5779, 3374]	6582	[7316, 1176]
439	[833, 834]	2487	[22, 3817]	4535	[5437, 472]	6583	[6232, 6320]
440	[835, 836]	2488	[3818, 3819]	4536	[1382, 3774]	6584	[5748, 7317]
441	[837, 838]	2489	[3094, 3820]	4537	[2919, 1385]	6585	[5636, 2957]
442	[839, 840]	2490	[3821, 1224]	4538	[5780, 3169]	6586	[7318, 3553]
443	[841, 813]	2491	[3822, 3823]	4539	[5781, 3405]	6587	[7319, 5759]
444	[842, 537]	2492	[3173, 2769]	4540	[5782, 3079]	6588	[5817, 5421]
445	[843, 844]	2493	[3824, 3825]	4541	[5783, 5428]	6589	[7320, 5469]
446	[845, 846]	2494	[3826, 2795]	4542	[5784, 3363]	6590	[3355, 3528]
447	[847, 848]	2495	[3827, 3506]	4543	[5785, 5355]	6591	[7321, 3655]
448	[849, 850]	2496	[1246, 3828]	4544	[3510, 5437]	6592	[7322, 2920]
449	[851, 576]	2497	[3829, 1553]	4545	[5786, 266]	6593	[7323, 1332]
450	[852, 853]	2498	[3830, 1555]	4546	[5787, 1402]	6594	[7324, 5501]
451	[854, 855]	2499	[3516, 3831]	4547	[1159, 5788]	6595	[3325, 5415]
452	[856, 857]	2500	[3832, 3051]	4548	[359, 3807]	6596	[3531, 1257]
453	[858, 859]	2501	[3553, 3833]	4549	[5789, 1346]	6597	[7325, 2965]
454	[860, 861]	2502	[3834, 3600]	4550	[1010, 3270]	6598	[3934, 5899]
455	[862, 222]	2503	[3835, 3836]	4551	[5406, 3970]	6599	[1527, 399]
456	[863, 864]	2504	[3837, 3121]	4552	[5790, 1127]	6600	[7326, 3201]

457	[865, 866]	2505	[3838, 318]	4553	[5461, 5791]	6601	[7327, 1271]
458	[867, 868]	2506	[3839, 3840]	4554	[5792, 1227]	6602	[7328, 3739]
459	[869, 870]	2507	[3263, 1622]	4555	[3131, 1322]	6603	[7329, 3624]
460	[871, 872]	2508	[3841, 3408]	4556	[5793, 3609]	6604	[2925, 6272]
461	[873, 874]	2509	[78, 1515]	4557	[3488, 5697]	6605	[7330, 401]
462	[875, 578]	2510	[3842, 3311]	4558	[5794, 1318]	6606	[7331, 1549]
463	[876, 877]	2511	[3843, 3100]	4559	[5795, 2775]	6607	[5611, 6066]
464	[878, 879]	2512	[1522, 3844]	4560	[5796, 5406]	6608	[7332, 6237]
465	[880, 881]	2513	[3845, 261]	4561	[5797, 3146]	6609	[7333, 3216]
466	[882, 883]	2514	[942, 3164]	4562	[3622, 3342]	6610	[7334, 3243]
467	[884, 885]	2515	[996, 1539]	4563	[5425, 3927]	6611	[7335, 6318]
468	[886, 887]	2516	[3846, 1261]	4564	[5798, 1338]	6612	[7336, 3175]
469	[888, 889]	2517	[3139, 3047]	4565	[5799, 393]	6613	[5959, 3226]
470	[890, 891]	2518	[1226, 3847]	4566	[1238, 1033]	6614	[7337, 1357]
471	[185, 892]	2519	[3848, 3849]	4567	[5800, 5681]	6615	[7338, 5866]
472	[893, 894]	2520	[3850, 930]	4568	[1189, 5801]	6616	[1396, 2956]
473	[895, 130]	2521	[3851, 1496]	4569	[3449, 3795]	6617	[3336, 1568]
474	[896, 897]	2522	[445, 3784]	4570	[5802, 5803]	6618	[7339, 3676]
475	[676, 898]	2523	[3852, 1201]	4571	[5804, 2934]	6619	[1150, 5363]
476	[899, 900]	2524	[3853, 93]	4572	[4023, 3695]	6620	[7340, 4012]
477	[901, 682]	2525	[3854, 3037]	4573	[5805, 1135]	6621	[1263, 6318]
478	[902, 903]	2526	[1416, 3320]	4574	[5806, 1172]	6622	[5773, 1441]
479	[904, 905]	2527	[3855, 3856]	4575	[3668, 5368]	6623	[3469, 4018]
480	[906, 907]	2528	[3856, 1151]	4576	[5807, 452]	6624	[253, 1305]
481	[908, 909]	2529	[3857, 3858]	4577	[5808, 1100]	6625	[7341, 302]
482	[910, 911]	2530	[3690, 3859]	4578	[3941, 3550]	6626	[3374, 3737]
483	[912, 913]	2531	[3860, 3598]	4579	[5730, 1484]	6627	[7342, 3000]
484	[914, 915]	2532	[3861, 3862]	4580	[3906, 3789]	6628	[6380, 1256]
485	[916, 917]	2533	[3111, 3863]	4581	[5809, 5810]	6629	[7343, 1439]
486	[918, 919]	2534	[3864, 979]	4582	[5811, 932]	6630	[7344, 1374]
487	[920, 89]	2535	[3865, 1230]	4583	[5812, 1292]	6631	[7345, 7344]
488	[921, 922]	2536	[3866, 1000]	4584	[5813, 5814]	6632	[7346, 3075]
489	[923, 3]	2537	[2839, 3677]	4585	[2720, 3996]	6633	[7347, 1494]
490	[924, 925]	2538	[3867, 347]	4586	[5815, 2974]	6634	[5913, 122]
491	[926, 927]	2539	[1095, 431]	4587	[5816, 5817]	6635	[2959, 6234]
492	[928, 929]	2540	[3868, 3869]	4588	[5818, 5819]	6636	[7348, 97]
493	[930, 931]	2541	[3870, 3871]	4589	[5820, 5560]	6637	[7349, 5507]
494	[932, 933]	2542	[1292, 3872]	4590	[1421, 3386]	6638	[1005, 5613]
495	[428, 934]	2543	[1578, 3873]	4591	[5821, 1049]	6639	[7350, 1605]
496	[935, 936]	2544	[2869, 3109]	4592	[3464, 3965]	6640	[7351, 1424]
497	[937, 938]	2545	[1178, 115]	4593	[5822, 3683]	6641	[7352, 5521]
498	[939, 940]	2546	[3874, 2913]	4594	[3431, 3469]	6642	[2719, 6229]
499	[941, 942]	2547	[3875, 3461]	4595	[5823, 1425]	6643	[7353, 5890]
500	[943, 944]	2548	[3876, 3667]	4596	[5824, 5825]	6644	[7354, 3786]

501	[945, 946]	2549	[1018, 3877]	4597	[477, 2770]	6645	[7355, 7247]
502	[947, 948]	2550	[3878, 3879]	4598	[5826, 5827]	6646	[7356, 1042]
503	[949, 950]	2551	[3880, 3881]	4599	[5828, 1603]	6647	[7357, 472]
504	[951, 952]	2552	[3882, 2833]	4600	[3975, 5605]	6648	[5936, 5941]
505	[953, 954]	2553	[2950, 29]	4601	[5829, 2812]	6649	[7358, 6117]
506	[955, 956]	2554	[3883, 3884]	4602	[3862, 1598]	6650	[2822, 3674]
507	[957, 958]	2555	[3885, 3886]	4603	[5830, 2924]	6651	[7359, 3628]
508	[959, 960]	2556	[3887, 1248]	4604	[5831, 5832]	6652	[7360, 462]
509	[322, 961]	2557	[3888, 3082]	4605	[5641, 5833]	6653	[7361, 17]
510	[962, 963]	2558	[3889, 1442]	4606	[5834, 1047]	6654	[7362, 5346]
511	[964, 965]	2559	[302, 1461]	4607	[5744, 3538]	6655	[5647, 3335]
512	[966, 967]	2560	[3890, 3891]	4608	[3251, 5641]	6656	[7363, 1283]
513	[968, 969]	2561	[3892, 1422]	4609	[5835, 321]	6657	[7364, 989]
514	[970, 971]	2562	[3893, 256]	4610	[5836, 3942]	6658	[7365, 5731]
515	[972, 973]	2563	[3010, 368]	4611	[3339, 3594]	6659	[7366, 4]
516	[974, 975]	2564	[3894, 1553]	4612	[5837, 3693]	6660	[7367, 1093]
517	[976, 977]	2565	[3895, 1371]	4613	[5838, 5796]	6661	[7368, 2707]
518	[978, 979]	2566	[3896, 471]	4614	[5839, 460]	6662	[7369, 3271]
519	[980, 981]	2567	[3897, 3898]	4615	[3738, 5840]	6663	[5778, 1392]
520	[982, 104]	2568	[3899, 3900]	4616	[5841, 3716]	6664	[357, 3580]
521	[983, 984]	2569	[291, 3219]	4617	[5842, 1050]	6665	[7370, 3645]
522	[985, 310]	2570	[3901, 3902]	4618	[1200, 5843]	6666	[7371, 1315]
523	[986, 987]	2571	[3823, 1281]	4619	[5844, 3955]	6667	[7372, 7373]
524	[398, 988]	2572	[3903, 3904]	4620	[5845, 5846]	6668	[7374, 1622]
525	[989, 990]	2573	[3905, 3906]	4621	[5847, 5624]	6669	[7375, 2900]
526	[991, 992]	2574	[3495, 3907]	4622	[5848, 5849]	6670	[7376, 2946]
527	[993, 994]	2575	[3908, 2726]	4623	[5850, 1497]	6671	[7377, 1557]
528	[995, 996]	2576	[3909, 1079]	4624	[5851, 445]	6672	[7378, 1517]
529	[997, 998]	2577	[3910, 2816]	4625	[5852, 5365]	6673	[7379, 1590]
530	[999, 1000]	2578	[449, 3598]	4626	[3192, 5853]	6674	[453, 3043]
531	[1001, 1002]	2579	[3911, 3650]	4627	[3286, 5854]	6675	[7380, 442]
532	[1003, 1003]	2580	[3912, 3913]	4628	[5855, 3137]	6676	[1280, 1471]
533	[1004, 1005]	2581	[3914, 1603]	4629	[1540, 3814]	6677	[7381, 125]
534	[1000, 1006]	2582	[3915, 3792]	4630	[5856, 5857]	6678	[7382, 458]
535	[1007, 1008]	2583	[3916, 3917]	4631	[1544, 3285]	6679	[7383, 363]
536	[1009, 1010]	2584	[2911, 3918]	4632	[5858, 3837]	6680	[7384, 1056]
537	[1011, 299]	2585	[3919, 3920]	4633	[5859, 254]	6681	[3406, 3626]
538	[1012, 1013]	2586	[3921, 3456]	4634	[5860, 3738]	6682	[5456, 5689]
539	[1014, 1015]	2587	[3522, 3298]	4635	[5861, 3017]	6683	[7385, 3913]
540	[1016, 947]	2588	[3605, 3922]	4636	[3441, 5862]	6684	[269, 6023]
541	[1017, 1018]	2589	[3663, 1247]	4637	[3657, 2978]	6685	[7386, 102]
542	[1019, 1020]	2590	[3923, 3334]	4638	[5863, 3556]	6686	[7387, 5901]
543	[1021, 289]	2591	[3924, 3596]	4639	[2814, 3898]	6687	[7388, 3520]
544	[1022, 1023]	2592	[3925, 1294]	4640	[5864, 1254]	6688	[7389, 5862]

545	[1024, 1025]	2593	[3926, 3463]	4641	[5865, 2942]	6689	[7390, 1342]
546	[1026, 1027]	2594	[3927, 3928]	4642	[5866, 3442]	6690	[3443, 1450]
547	[1028, 1029]	2595	[3929, 1615]	4643	[5867, 5450]	6691	[5727, 2911]
548	[1030, 1031]	2596	[3930, 80]	4644	[5868, 1076]	6692	[3069, 5687]
549	[1032, 1033]	2597	[3931, 3932]	4645	[5869, 5870]	6693	[7391, 1438]
550	[1034, 1035]	2598	[3933, 3934]	4646	[5871, 5872]	6694	[3765, 3132]
551	[1036, 1037]	2599	[318, 3935]	4647	[5873, 3785]	6695	[7392, 3745]
552	[1038, 1039]	2600	[2758, 3174]	4648	[5646, 3675]	6696	[5872, 3775]
553	[1040, 1041]	2601	[3936, 3937]	4649	[4017, 5874]	6697	[7393, 3472]
554	[1042, 1043]	2602	[3466, 2865]	4650	[5875, 2730]	6698	[2965, 5574]
555	[1044, 1045]	2603	[3938, 2901]	4651	[3907, 2764]	6699	[5590, 2905]
556	[1046, 1047]	2604	[1429, 3939]	4652	[5876, 5877]	6700	[7394, 1251]
557	[1048, 372]	2605	[3940, 3941]	4653	[5379, 5610]	6701	[7395, 2727]
558	[1049, 1050]	2606	[3745, 3703]	4654	[5878, 1546]	6702	[7396, 5737]
559	[1051, 1052]	2607	[3942, 3398]	4655	[5879, 1607]	6703	[7397, 3365]
560	[1053, 1054]	2608	[3943, 2885]	4656	[5880, 5881]	6704	[7398, 3214]
561	[1055, 1056]	2609	[3944, 3945]	4657	[3863, 2984]	6705	[2797, 3142]
562	[1057, 1058]	2610	[1272, 2699]	4658	[400, 5443]	6706	[5577, 5803]
563	[1059, 1060]	2611	[3345, 3946]	4659	[5882, 267]	6707	[7399, 96]
564	[1061, 1062]	2612	[3947, 3895]	4660	[2828, 3371]	6708	[7400, 77]
565	[1063, 1064]	2613	[3948, 3342]	4661	[5883, 5778]	6709	[7401, 3517]
566	[6, 428]	2614	[3949, 1315]	4662	[5884, 931]	6710	[1289, 5558]
567	[1065, 1066]	2615	[3950, 2831]	4663	[1466, 3240]	6711	[7402, 1623]
568	[1067, 1068]	2616	[2712, 3951]	4664	[5885, 3285]	6712	[7403, 3820]
569	[1069, 1070]	2617	[1357, 3952]	4665	[3217, 5634]	6713	[3365, 1059]
570	[1071, 1072]	2618	[3953, 2935]	4666	[2927, 3327]	6714	[3016, 1318]
571	[289, 95]	2619	[3954, 1070]	4667	[5886, 3544]	6715	[3833, 3742]
572	[1073, 1074]	2620	[3230, 3955]	4668	[5887, 378]	6716	[7404, 1375]
573	[1075, 1076]	2621	[3956, 112]	4669	[5888, 111]	6717	[7405, 1026]
574	[1077, 1078]	2622	[3957, 1030]	4670	[5889, 5890]	6718	[1442, 6019]
575	[1079, 1080]	2623	[3958, 3043]	4671	[5891, 5674]	6719	[7406, 1183]
576	[1081, 1082]	2624	[3959, 3960]	4672	[5892, 1589]	6720	[7407, 379]
577	[1083, 1084]	2625	[3961, 2984]	4673	[5893, 5894]	6721	[2991, 5541]
578	[1085, 1086]	2626	[3962, 3288]	4674	[5895, 5463]	6722	[1445, 3099]
579	[1087, 1088]	2627	[3963, 78]	4675	[2779, 5413]	6723	[7408, 1112]
580	[1089, 1090]	2628	[3964, 2889]	4676	[5896, 95]	6724	[7409, 3132]
581	[1091, 1092]	2629	[3965, 3966]	4677	[5897, 277]	6725	[7410, 7273]
582	[420, 1093]	2630	[3967, 3968]	4678	[5898, 5899]	6726	[1617, 2906]
583	[1094, 1095]	2631	[3969, 3970]	4679	[5900, 923]	6727	[7411, 1064]
584	[1096, 1097]	2632	[3971, 3972]	4680	[5901, 5902]	6728	[381, 939]
585	[1098, 1099]	2633	[3973, 1388]	4681	[5903, 5904]	6729	[6006, 1066]
586	[1100, 1101]	2634	[3974, 3975]	4682	[5905, 3092]	6730	[7412, 3234]
587	[1076, 1102]	2635	[3976, 3283]	4683	[5906, 2932]	6731	[7413, 3677]
588	[1103, 1104]	2636	[3672, 1349]	4684	[5907, 5908]	6732	[7414, 3111]

589	[1105, 1106]	2637	[3375, 1481]	4685	[3363, 5866]	6733	[7415, 5401]
590	[1107, 1108]	2638	[2954, 3533]	4686	[5909, 1537]	6734	[7416, 1493]
591	[1109, 1110]	2639	[3977, 3978]	4687	[5910, 2917]	6735	[7417, 1244]
592	[1111, 1112]	2640	[387, 3002]	4688	[3902, 389]	6736	[2875, 5973]
593	[1113, 1114]	2641	[3979, 3980]	4689	[5911, 1386]	6737	[1196, 3672]
594	[1115, 1059]	2642	[3723, 3981]	4690	[5912, 5913]	6738	[7418, 2728]
595	[1116, 1117]	2643	[3982, 2755]	4691	[5914, 433]	6739	[3825, 452]
596	[1118, 1119]	2644	[3983, 2792]	4692	[5510, 5915]	6740	[7419, 18]
597	[1120, 408]	2645	[3984, 2879]	4693	[3750, 2820]	6741	[7420, 5894]
598	[1121, 468]	2646	[3871, 71]	4694	[5916, 5893]	6742	[3648, 3370]
599	[1122, 1123]	2647	[3985, 3682]	4695	[5917, 1142]	6743	[3223, 6056]
600	[406, 1124]	2648	[3627, 3465]	4696	[5918, 1179]	6744	[7421, 3622]
601	[1125, 1126]	2649	[3986, 1361]	4697	[5919, 1234]	6745	[7422, 3661]
602	[1127, 1128]	2650	[3987, 3320]	4698	[954, 2902]	6746	[2857, 3208]
603	[1129, 1130]	2651	[3988, 301]	4699	[3255, 965]	6747	[3715, 3920]
604	[1131, 1132]	2652	[3989, 3990]	4700	[3302, 5920]	6748	[1407, 2758]
605	[1133, 1134]	2653	[3991, 1614]	4701	[5921, 5510]	6749	[5454, 5461]
606	[1135, 1136]	2654	[3992, 1225]	4702	[5922, 5853]	6750	[7423, 3035]
607	[1137, 1138]	2655	[1310, 2864]	4703	[5923, 332]	6751	[7424, 6218]
608	[1139, 1081]	2656	[334, 3243]	4704	[1278, 1145]	6752	[7425, 6380]
609	[1140, 1141]	2657	[3993, 3123]	4705	[5924, 3640]	6753	[2968, 956]
610	[1142, 1143]	2658	[3994, 3995]	4706	[5925, 1542]	6754	[7426, 928]
611	[1144, 395]	2659	[3996, 3997]	4707	[5926, 101]	6755	[7427, 1588]
612	[1145, 1034]	2660	[3551, 1332]	4708	[5927, 3613]	6756	[7428, 6109]
613	[925, 1146]	2661	[3998, 1075]	4709	[5928, 5479]	6757	[7429, 5751]
614	[1147, 1148]	2662	[3999, 2874]	4710	[3651, 5929]	6758	[7430, 354]
615	[1149, 1150]	2663	[4000, 4001]	4711	[1525, 2962]	6759	[7431, 5380]
616	[1151, 1152]	2664	[4002, 4003]	4712	[5930, 5931]	6760	[7432, 5929]
617	[1153, 1154]	2665	[3206, 4004]	4713	[3740, 5932]	6761	[7433, 278]
618	[1155, 1156]	2666	[4005, 4006]	4714	[3327, 908]	6762	[3547, 1126]
619	[1157, 920]	2667	[4007, 2985]	4715	[5933, 916]	6763	[1370, 5549]
620	[1158, 1159]	2668	[4008, 4009]	4716	[3199, 3313]	6764	[3737, 5520]
621	[1160, 1161]	2669	[402, 1224]	4717	[5934, 1472]	6765	[7434, 5630]
622	[987, 414]	2670	[4010, 3878]	4718	[5935, 5936]	6766	[1097, 3411]
623	[1162, 1163]	2671	[4011, 4012]	4719	[5937, 5689]	6767	[3970, 1276]
624	[1164, 286]	2672	[4013, 4014]	4720	[3417, 3236]	6768	[3693, 296]
625	[1165, 1166]	2673	[3433, 2773]	4721	[5938, 3438]	6769	[7435, 2815]
626	[1167, 1168]	2674	[1598, 3216]	4722	[5870, 5908]	6770	[6383, 2970]
627	[1169, 1170]	2675	[4015, 3004]	4723	[5939, 5694]	6771	[7436, 1136]
628	[1171, 1172]	2676	[4016, 4017]	4724	[5940, 5669]	6772	[7437, 5574]
629	[1173, 1174]	2677	[4018, 1545]	4725	[5941, 3926]	6773	[7438, 958]
630	[1175, 1176]	2678	[3267, 4019]	4726	[5515, 2971]	6774	[7439, 3440]
631	[1177, 1178]	2679	[1413, 1227]	4727	[5942, 1513]	6775	[7440, 3784]
632	[961, 1179]	2680	[3439, 4020]	4728	[2771, 3333]	6776	[7441, 336]

633	[1180, 1181]	2681	[4021, 1147]	4729	[5943, 3991]	6777	[1346, 5832]
634	[1182, 1183]	2682	[4022, 4023]	4730	[5944, 1345]	6778	[3732, 2717]
635	[1184, 1185]	2683	[4024, 4025]	4731	[5945, 5946]	6779	[7442, 3237]
636	[1186, 1187]	2684	[88, 4026]	4732	[2966, 1338]	6780	[7443, 3539]
637	[1188, 1189]	2685	[4027, 3982]	4733	[5947, 425]	6781	[7444, 2853]
638	[1190, 73]	2686	[4028, 3066]	4734	[5948, 3895]	6782	[7445, 6161]
639	[1191, 1192]	2687	[4029, 4030]	4735	[1176, 3191]	6783	[7446, 342]
640	[1193, 1194]	2688	[3997, 3458]	4736	[1080, 3430]	6784	[5881, 5674]
641	[1195, 1196]	2689	[4031, 4032]	4737	[5862, 5614]	6785	[2721, 6128]
642	[1197, 1198]	2690	[3270, 3518]	4738	[1008, 1187]	6786	[1250, 5773]
643	[1199, 1200]	2691	[4033, 3217]	4739	[5949, 1450]	6787	[5791, 1378]
644	[1201, 1202]	2692	[3187, 1420]	4740	[5849, 1356]	6788	[5353, 7303]
645	[1203, 1204]	2693	[4034, 4035]	4741	[5950, 3859]	6789	[7279, 2857]
646	[1205, 1206]	2694	[4003, 4036]	4742	[5951, 976]	6790	[3884, 5816]
647	[1207, 1208]	2695	[4037, 2906]	4743	[5952, 1502]	6791	[7447, 1350]
648	[1209, 1210]	2696	[1219, 1239]	4744	[1447, 3788]	6792	[7448, 3926]
649	[1211, 1212]	2697	[3128, 3266]	4745	[3952, 5953]	6793	[7449, 1270]
650	[1213, 356]	2698	[4038, 4039]	4746	[3820, 983]	6794	[7450, 1340]
651	[1214, 1031]	2699	[4040, 4041]	4747	[5954, 5955]	6795	[2945, 3137]
652	[1215, 1216]	2700	[2025, 2001]	4748	[5956, 5957]	6796	[7451, 3458]
653	[1217, 311]	2701	[4042, 1816]	4749	[1187, 3312]	6797	[7452, 402]
654	[1218, 1219]	2702	[4043, 4044]	4750	[5958, 3826]	6798	[7453, 3215]
655	[1220, 1221]	2703	[2021, 4045]	4751	[3900, 1330]	6799	[3742, 2919]
656	[1222, 1223]	2704	[4046, 4047]	4752	[5654, 5959]	6800	[7454, 1267]
657	[1224, 1030]	2705	[4048, 4049]	4753	[5669, 415]	6801	[3034, 314]
658	[1225, 1226]	2706	[4050, 4051]	4754	[1300, 1488]	6802	[7455, 1582]
659	[1227, 1228]	2707	[4052, 501]	4755	[5960, 2833]	6803	[7456, 3927]
660	[1229, 1089]	2708	[4053, 4054]	4756	[5961, 5962]	6804	[7241, 3260]
661	[1230, 1231]	2709	[4055, 2217]	4757	[5963, 300]	6805	[7457, 1204]
662	[1232, 1233]	2710	[4056, 4057]	4758	[5964, 3196]	6806	[7458, 5575]
663	[1234, 1164]	2711	[4058, 4059]	4759	[3145, 5965]	6807	[5538, 7373]
664	[1235, 1236]	2712	[4060, 2690]	4760	[5966, 3260]	6808	[7459, 344]
665	[1237, 1238]	2713	[4061, 1733]	4761	[5967, 99]	6809	[3849, 3169]
666	[1239, 1240]	2714	[4062, 1788]	4762	[1058, 3530]	6810	[936, 1196]
667	[1241, 1242]	2715	[4063, 2239]	4763	[3359, 5578]	6811	[7460, 3007]
668	[1243, 376]	2716	[4064, 1746]	4764	[5968, 292]	6812	[352, 950]
669	[1244, 1036]	2717	[4065, 2038]	4765	[1606, 1507]	6813	[7461, 5965]
670	[1245, 1246]	2718	[4066, 4067]	4766	[5676, 5969]	6814	[7462, 1521]
671	[1247, 1248]	2719	[4068, 1771]	4767	[5970, 3417]	6815	[7463, 1188]
672	[1249, 1250]	2720	[2686, 2643]	4768	[1386, 5870]	6816	[6108, 6049]
673	[426, 1251]	2721	[4069, 747]	4769	[3831, 3027]	6817	[1015, 3450]
674	[1252, 1253]	2722	[4070, 4071]	4770	[5971, 3896]	6818	[1552, 3397]
675	[438, 1254]	2723	[4072, 36]	4771	[3524, 3104]	6819	[7464, 280]
676	[1255, 1256]	2724	[4073, 2391]	4772	[1114, 968]	6820	[7465, 5523]

677	[1257, 1258]	2725	[4074, 4075]	4773	[5972, 3008]	6821	[7466, 5791]
678	[1259, 1260]	2726	[4076, 2290]	4774	[1039, 1532]	6822	[6122, 7344]
679	[1261, 270]	2727	[4077, 673]	4775	[5973, 2892]	6823	[7467, 376]
680	[1262, 1263]	2728	[4078, 187]	4776	[5974, 3226]	6824	[1216, 411]
681	[1264, 1265]	2729	[1996, 2231]	4777	[5975, 1240]	6825	[5448, 3426]
682	[1266, 1267]	2730	[4079, 2460]	4778	[5976, 121]	6826	[7197, 1212]
683	[1268, 1016]	2731	[4080, 4081]	4779	[304, 3660]	6827	[7468, 1282]
684	[1269, 1270]	2732	[4082, 808]	4780	[5977, 3882]	6828	[7469, 1266]
685	[1271, 1272]	2733	[4083, 1815]	4781	[5978, 1614]	6829	[7470, 2866]
686	[1273, 1274]	2734	[4084, 4085]	4782	[2943, 3639]	6830	[3918, 5735]
687	[1275, 1276]	2735	[4086, 127]	4783	[1468, 1073]	6831	[7471, 3062]
688	[1277, 1278]	2736	[1962, 4087]	4784	[307, 2917]	6832	[1072, 2898]
689	[1279, 1280]	2737	[4088, 4089]	4785	[5979, 5980]	6833	[3624, 5776]
690	[1281, 1282]	2738	[4090, 135]	4786	[1380, 3611]	6834	[7472, 1387]
691	[1283, 1284]	2739	[4091, 4092]	4787	[320, 3279]	6835	[7473, 5639]
692	[1285, 1286]	2740	[4093, 2049]	4788	[5981, 1498]	6836	[7474, 5948]
693	[1106, 1287]	2741	[4094, 4095]	4789	[3702, 1193]	6837	[6019, 1489]
694	[1288, 1289]	2742	[4096, 4097]	4790	[5982, 5464]	6838	[1033, 3747]
695	[971, 1290]	2743	[32, 2344]	4791	[5983, 2945]	6839	[7475, 281]
696	[1291, 1292]	2744	[4098, 1924]	4792	[5984, 5973]	6840	[2837, 3912]
697	[1293, 1294]	2745	[4099, 4100]	4793	[5985, 3152]	6841	[7476, 1281]
698	[1295, 1296]	2746	[4101, 4102]	4794	[5986, 3098]	6842	[7477, 2954]
699	[1297, 1298]	2747	[1882, 1876]	4795	[5987, 3300]	6843	[1571, 5989]
700	[1299, 1300]	2748	[2669, 4103]	4796	[5988, 5989]	6844	[7478, 1413]
701	[1301, 1302]	2749	[4104, 4105]	4797	[5990, 5603]	6845	[7479, 945]
702	[1303, 1036]	2750	[2061, 901]	4798	[1536, 384]	6846	[7480, 107]
703	[1304, 1038]	2751	[4106, 626]	4799	[5991, 2800]	6847	[3528, 3878]
704	[1305, 1040]	2752	[4107, 4108]	4800	[5992, 3257]	6848	[7481, 2931]
705	[1306, 1042]	2753	[4109, 4110]	4801	[2973, 5751]	6849	[7373, 3307]
706	[1307, 1308]	2754	[4111, 2564]	4802	[5993, 345]	6850	[5946, 7320]
707	[1309, 1310]	2755	[2105, 673]	4803	[5994, 2719]	6851	[5468, 3317]
708	[1311, 1312]	2756	[4112, 4113]	4804	[5995, 2720]	6852	[5508, 6233]
709	[1313, 1314]	2757	[2283, 2196]	4805	[5996, 454]	6853	[7482, 5819]
710	[1315, 962]	2758	[4114, 1951]	4806	[3348, 5401]	6854	[7483, 2759]
711	[1316, 1317]	2759	[799, 4085]	4807	[5997, 5998]	6855	[7484, 3026]
712	[1318, 1319]	2760	[1936, 4115]	4808	[5999, 2882]	6856	[7485, 3181]
713	[1320, 1321]	2761	[1938, 696]	4809	[6000, 3355]	6857	[3721, 3421]
714	[1322, 1323]	2762	[2611, 879]	4810	[6001, 1423]	6858	[7486, 5951]
715	[1324, 1325]	2763	[4116, 855]	4811	[6002, 3796]	6859	[7487, 953]
716	[1326, 1213]	2764	[4117, 554]	4812	[1296, 3158]	6860	[3606, 1460]
717	[1327, 1328]	2765	[4118, 4119]	4813	[6003, 3344]	6861	[7488, 1421]
718	[1329, 1330]	2766	[4120, 644]	4814	[6004, 3907]	6862	[5915, 6296]
719	[1331, 404]	2767	[4121, 4122]	4815	[6005, 6006]	6863	[3272, 5456]
720	[1332, 1333]	2768	[4123, 4124]	4816	[3196, 3256]	6864	[7489, 3040]

721	[1334, 1335]	2769	[4125, 50]	4817	[6007, 3698]	6865	[5969, 5796]
722	[1336, 1337]	2770	[4126, 2088]	4818	[6008, 3371]	6866	[7490, 1129]
723	[1338, 1339]	2771	[682, 4127]	4819	[3322, 1412]	6867	[1124, 1207]
724	[1340, 1341]	2772	[4127, 4128]	4820	[6009, 94]	6868	[7491, 1376]
725	[1212, 1342]	2773	[62, 1757]	4821	[6010, 5503]	6869	[7253, 393]
726	[1343, 1044]	2774	[4129, 724]	4822	[6011, 371]	6870	[7492, 3171]
727	[1086, 1344]	2775	[887, 1652]	4823	[3447, 5761]	6871	[2710, 1147]
728	[1345, 1346]	2776	[4130, 776]	4824	[6012, 3708]	6872	[6192, 6021]
729	[1347, 1348]	2777	[4131, 4132]	4825	[6013, 2824]	6873	[7493, 4019]
730	[1349, 1350]	2778	[4133, 870]	4826	[367, 1234]	6874	[411, 5370]
731	[82, 1351]	2779	[8, 1968]	4827	[6014, 6015]	6875	[7494, 2892]
732	[1352, 1353]	2780	[4134, 171]	4828	[6016, 3296]	6876	[1414, 5727]
733	[1354, 1355]	2781	[1990, 625]	4829	[6017, 1323]	6877	[7495, 3542]
734	[1356, 1357]	2782	[4135, 633]	4830	[6018, 6019]	6878	[7496, 1119]
735	[1328, 1171]	2783	[4136, 1955]	4831	[6020, 5400]	6879	[7497, 1314]
736	[418, 1358]	2784	[4137, 4138]	4832	[6021, 3988]	6880	[7498, 3691]
737	[1359, 1360]	2785	[4139, 39]	4833	[6022, 6023]	6881	[7199, 3184]
738	[1361, 1362]	2786	[4140, 4141]	4834	[6024, 1010]	6882	[5894, 2706]
739	[1363, 1364]	2787	[2374, 210]	4835	[6025, 3662]	6883	[7499, 2993]
740	[948, 343]	2788	[885, 4142]	4836	[6026, 299]	6884	[7500, 3614]
741	[1365, 1366]	2789	[4143, 4144]	4837	[6027, 3031]	6885	[7277, 5533]
742	[1367, 1368]	2790	[4145, 2467]	4838	[6028, 455]	6886	[2877, 1283]
743	[1369, 1370]	2791	[4146, 4041]	4839	[6029, 2763]	6887	[3526, 330]
744	[1371, 1372]	2792	[4147, 2216]	4840	[6030, 5556]	6888	[7501, 3347]
745	[1373, 1203]	2793	[4148, 643]	4841	[6031, 6032]	6889	[1470, 6237]
746	[1374, 1375]	2794	[193, 772]	4842	[6033, 3719]	6890	[1254, 1169]
747	[1376, 252]	2795	[4149, 600]	4843	[6034, 2793]	6891	[7502, 7225]
748	[1377, 1378]	2796	[4150, 1872]	4844	[6035, 3450]	6892	[1276, 6337]
749	[1379, 1380]	2797	[4151, 1844]	4845	[117, 3794]	6893	[1608, 1448]
750	[1381, 1382]	2798	[1925, 4152]	4846	[5980, 3862]	6894	[7503, 2754]
751	[1383, 1384]	2799	[4153, 189]	4847	[26, 99]	6895	[7504, 3952]
752	[1385, 1386]	2800	[4154, 1649]	4848	[6036, 6021]	6896	[7505, 1111]
753	[1387, 1388]	2801	[4155, 831]	4849	[3422, 2790]	6897	[1586, 439]
754	[1389, 1390]	2802	[4156, 801]	4850	[6037, 3600]	6898	[7506, 120]
755	[1391, 1392]	2803	[4157, 2337]	4851	[6038, 6039]	6899	[7507, 1299]
756	[1393, 1394]	2804	[2641, 1827]	4852	[5953, 1299]	6900	[7508, 2982]
757	[1395, 1396]	2805	[2643, 4158]	4853	[6040, 3397]	6901	[7509, 29]
758	[70, 403]	2806	[4159, 1684]	4854	[6041, 5705]	6902	[7510, 7511]
759	[1397, 21]	2807	[145, 4160]	4855	[2723, 2921]	6903	[3780, 3985]
760	[1398, 1399]	2808	[4161, 4162]	4856	[6042, 6043]	6904	[7512, 3139]
761	[1400, 1401]	2809	[4163, 4115]	4857	[6044, 3521]	6905	[1441, 3146]
762	[1402, 1403]	2810	[2070, 126]	4858	[6045, 3566]	6906	[3828, 7197]
763	[1404, 1405]	2811	[586, 4164]	4859	[5364, 6046]	6907	[7513, 1141]
764	[1406, 1407]	2812	[4165, 4166]	4860	[5393, 6047]	6908	[3891, 5715]

765	[1408, 1409]	2813	[4167, 4168]	4861	[6048, 6049]	6909	[7514, 100]
766	[1410, 1411]	2814	[4169, 48]	4862	[6050, 1504]	6910	[7515, 969]
767	[1412, 1413]	2815	[859, 4170]	4863	[6051, 1040]	6911	[3141, 5545]
768	[273, 1414]	2816	[4171, 740]	4864	[2871, 3511]	6912	[7516, 3185]
769	[1415, 1381]	2817	[2081, 2387]	4865	[6052, 3357]	6913	[2731, 3634]
770	[1074, 1416]	2818	[1773, 537]	4866	[2901, 406]	6914	[5857, 27]
771	[956, 1417]	2819	[4172, 4173]	4867	[6053, 1011]	6915	[7517, 1069]
772	[1418, 1419]	2820	[4174, 4175]	4868	[6054, 1613]	6916	[7518, 3372]
773	[1420, 1421]	2821	[4176, 4177]	4869	[6055, 3401]	6917	[7519, 3113]
774	[1422, 1423]	2822	[4178, 2033]	4870	[6056, 6057]	6918	[3257, 3076]
775	[1424, 1425]	2823	[4179, 2551]	4871	[1023, 97]	6919	[7520, 5561]
776	[1426, 1427]	2824	[1733, 839]	4872	[125, 5948]	6920	[7521, 1499]
777	[1428, 1429]	2825	[4180, 2134]	4873	[3858, 2733]	6921	[3972, 429]
778	[1430, 1100]	2826	[1918, 2690]	4874	[934, 1577]	6922	[7522, 5520]
779	[1431, 1432]	2827	[4181, 4182]	4875	[6058, 6059]	6923	[3085, 7511]
780	[1433, 1110]	2828	[4183, 2094]	4876	[6060, 5524]	6924	[7523, 3239]
781	[1434, 1435]	2829	[4184, 2030]	4877	[3018, 3366]	6925	[7524, 6320]
782	[1436, 1097]	2830	[4185, 4186]	4878	[6061, 6047]	6926	[7525, 1348]
783	[1437, 448]	2831	[4187, 2380]	4879	[6062, 2850]	6927	[5920, 5472]
784	[1308, 1438]	2832	[4188, 2185]	4880	[6063, 255]	6928	[1366, 2976]
785	[1439, 942]	2833	[4189, 1926]	4881	[5874, 3698]	6929	[3597, 6052]
786	[1440, 1441]	2834	[4190, 4191]	4882	[6064, 6065]	6930	[5631, 3471]
787	[257, 1442]	2835	[650, 725]	4883	[5609, 3902]	6931	[7526, 416]
788	[259, 1443]	2836	[4192, 4193]	4884	[6066, 1046]	6932	[340, 6116]
789	[1444, 1445]	2837	[4194, 1817]	4885	[6067, 3256]	6933	[7527, 5468]
790	[1446, 1447]	2838	[4195, 148]	4886	[5931, 2797]	6934	[7528, 2818]
791	[1448, 1449]	2839	[4196, 2331]	4887	[6068, 3443]	6935	[3797, 254]
792	[1450, 1451]	2840	[4197, 2146]	4888	[3056, 3490]	6936	[7529, 3048]
793	[1452, 1453]	2841	[4198, 4199]	4889	[6069, 3967]	6937	[7530, 3939]
794	[1454, 325]	2842	[4200, 2456]	4890	[6070, 5617]	6938	[7531, 2752]
795	[903, 1455]	2843	[4201, 478]	4891	[6071, 3535]	6939	[3457, 5535]
796	[1456, 1085]	2844	[4202, 4203]	4892	[1025, 1520]	6940	[7532, 3182]
797	[1457, 1458]	2845	[741, 176]	4893	[6072, 3774]	6941	[7533, 5395]
798	[1459, 1460]	2846	[4204, 4205]	4894	[6073, 1479]	6942	[3661, 6281]
799	[1461, 1462]	2847	[4206, 2509]	4895	[6074, 2967]	6943	[5553, 5737]
800	[1463, 1464]	2848	[4207, 2319]	4896	[6075, 1118]	6944	[7534, 2991]
801	[1465, 1466]	2849	[2402, 4208]	4897	[3783, 3161]	6945	[422, 3650]
802	[1467, 1468]	2850	[1907, 4209]	4898	[3210, 1117]	6946	[6059, 317]
803	[1469, 1470]	2851	[4210, 1932]	4899	[6076, 1278]	6947	[2861, 1424]
804	[1471, 1472]	2852	[4211, 4212]	4900	[6077, 5363]	6948	[7535, 1277]
805	[1473, 1474]	2853	[724, 4213]	4901	[6078, 2886]	6949	[938, 5580]
806	[309, 116]	2854	[4214, 1708]	4902	[1002, 3408]	6950	[7536, 3629]
807	[1475, 1476]	2855	[4215, 1886]	4903	[6079, 6080]	6951	[7537, 1532]
808	[1477, 1478]	2856	[4216, 4217]	4904	[6081, 1210]	6952	[6187, 7204]

809	[1253, 1479]	2857	[4218, 4219]	4905	[6082, 1608]	6953	[6023, 3008]
810	[1480, 1433]	2858	[2200, 4220]	4906	[6083, 5854]	6954	[7538, 1541]
811	[1481, 1482]	2859	[4221, 2611]	4907	[6084, 6085]	6955	[7539, 119]
812	[1483, 1484]	2860	[4222, 2463]	4908	[6086, 6087]	6956	[1267, 109]
813	[1485, 1486]	2861	[4223, 2207]	4909	[6088, 434]	6957	[7540, 1164]
814	[24, 1237]	2862	[4224, 2441]	4910	[3727, 3896]	6958	[7541, 3244]
815	[1487, 1488]	2863	[4225, 583]	4911	[6089, 2922]	6959	[3195, 5998]
816	[1489, 972]	2864	[2255, 4226]	4912	[3274, 2722]	6960	[4026, 6087]
817	[1490, 1491]	2865	[2265, 4227]	4913	[6090, 3594]	6961	[7542, 3009]
818	[1492, 1493]	2866	[485, 2350]	4914	[6091, 3962]	6962	[7543, 3006]
819	[1494, 1495]	2867	[4228, 758]	4915	[6092, 6093]	6963	[7544, 5676]
820	[1496, 1497]	2868	[166, 4229]	4916	[6094, 1369]	6964	[7545, 3663]
821	[1498, 1499]	2869	[4230, 725]	4917	[6095, 1284]	6965	[7546, 3314]
822	[1500, 932]	2870	[1800, 4231]	4918	[3185, 1521]	6966	[7547, 284]
823	[119, 1501]	2871	[4232, 534]	4919	[6096, 262]	6967	[7548, 1370]
824	[1502, 1503]	2872	[4233, 4234]	4920	[6097, 6031]	6968	[1256, 3058]
825	[328, 1504]	2873	[616, 2309]	4921	[6098, 3872]	6969	[3197, 2774]
826	[1505, 1273]	2874	[4235, 2677]	4922	[6099, 3906]	6970	[7549, 287]
827	[1506, 1507]	2875	[2198, 2688]	4923	[5705, 5931]	6971	[7550, 305]
828	[111, 295]	2876	[4236, 4237]	4924	[3404, 978]	6972	[3591, 1225]
829	[1508, 1509]	2877	[4238, 2664]	4925	[6100, 1559]	6973	[7551, 3100]
830	[1510, 69]	2878	[4239, 716]	4926	[3719, 3051]	6974	[7552, 1544]
831	[1511, 1512]	2879	[4240, 4241]	4927	[6101, 3091]	6975	[1027, 3222]
832	[1513, 904]	2880	[160, 1755]	4928	[394, 3658]	6976	[7553, 5817]
833	[1514, 1515]	2881	[872, 2543]	4929	[6102, 3627]	6977	[7554, 3057]
834	[1516, 1517]	2882	[874, 2395]	4930	[1251, 3575]	6978	[7555, 3932]
835	[1518, 1519]	2883	[4242, 4243]	4931	[3766, 3564]	6979	[3455, 5630]
836	[1520, 273]	2884	[2636, 729]	4932	[5899, 4025]	6980	[3980, 1625]
837	[1521, 1522]	2885	[4244, 4245]	4933	[2769, 3102]	6981	[7556, 5801]
838	[1523, 303]	2886	[716, 4246]	4934	[6103, 6104]	6982	[1423, 1589]
839	[20, 1465]	2887	[4247, 4248]	4935	[6105, 3466]	6983	[7557, 5502]
840	[1524, 1525]	2888	[4249, 4250]	4936	[6106, 3457]	6984	[2736, 1435]
841	[1526, 1527]	2889	[4251, 4252]	4937	[6107, 6108]	6985	[3063, 1312]
842	[1528, 297]	2890	[157, 692]	4938	[396, 6109]	6986	[7558, 298]
843	[1529, 321]	2891	[4253, 1999]	4939	[6110, 469]	6987	[3491, 5360]
844	[1530, 1531]	2892	[4254, 4255]	4940	[6111, 5369]	6988	[7559, 1236]
845	[1532, 319]	2893	[4256, 2647]	4941	[5408, 3991]	6989	[5741, 118]
846	[1533, 1534]	2894	[4257, 1988]	4942	[6112, 1411]	6990	[7560, 986]
847	[1535, 1536]	2895	[4258, 802]	4943	[6113, 116]	6991	[7561, 322]
848	[1537, 1150]	2896	[4259, 550]	4944	[6114, 3304]	6992	[7562, 1039]
849	[1538, 347]	2897	[4260, 1855]	4945	[6115, 6116]	6993	[1517, 5681]
850	[1539, 1540]	2898	[4261, 1851]	4946	[5562, 911]	6994	[7563, 5614]
851	[1541, 1542]	2899	[4262, 4263]	4947	[5843, 6117]	6995	[1488, 1095]
852	[1543, 1544]	2900	[4264, 520]	4948	[6118, 3424]	6996	[7564, 3230]

853	[1545, 1546]	2901	[4265, 4266]	4949	[5957, 5733]	6997	[7278, 6302]
854	[1547, 110]	2902	[4267, 2315]	4950	[6119, 2897]	6998	[7565, 1082]
855	[1548, 1114]	2903	[786, 2514]	4951	[6120, 3394]	6999	[3484, 5955]
856	[1549, 1550]	2904	[4268, 4269]	4952	[1335, 3840]	7000	[5890, 5951]
857	[1551, 1552]	2905	[4270, 2499]	4953	[6121, 963]	7001	[1265, 1432]
858	[1553, 1554]	2906	[4271, 4071]	4954	[74, 3882]	7002	[6117, 288]
859	[1555, 1556]	2907	[2684, 4272]	4955	[5687, 6122]	7003	[7566, 2973]
860	[1557, 1558]	2908	[1767, 4273]	4956	[6123, 1328]	7004	[5955, 5881]
861	[1559, 1560]	2909	[756, 4274]	4957	[6124, 3616]	7005	[7567, 3110]
862	[1561, 1562]	2910	[4275, 4276]	4958	[6125, 360]	7006	[7568, 3286]
863	[1563, 1564]	2911	[4277, 1889]	4959	[963, 1081]	7007	[3935, 3477]
864	[1565, 1566]	2912	[2191, 890]	4960	[6126, 88]	7008	[1550, 1317]
865	[1567, 1422]	2913	[4278, 2107]	4961	[6127, 6128]	7009	[3634, 2929]
866	[1568, 1569]	2914	[4279, 900]	4962	[6129, 5874]	7010	[7569, 5463]
867	[1570, 1571]	2915	[4110, 2630]	4963	[3224, 3744]	7011	[7570, 3712]
868	[1572, 1573]	2916	[4280, 1945]	4964	[3296, 3765]	7012	[3393, 1106]
869	[1574, 1575]	2917	[4281, 576]	4965	[6130, 463]	7013	[7571, 3151]
870	[1576, 425]	2918	[4282, 4283]	4966	[6131, 982]	7014	[5499, 1575]
871	[1577, 1578]	2919	[4284, 4285]	4967	[1562, 5913]	7015	[2775, 3588]
872	[1337, 1579]	2920	[4286, 236]	4968	[6132, 2731]	7016	[7572, 2998]
873	[1580, 1581]	2921	[4287, 4288]	4969	[5415, 923]	7017	[7573, 385]
874	[1582, 1583]	2922	[4289, 4290]	4970	[6133, 6134]	7018	[7574, 5969]
875	[379, 1584]	2923	[4291, 788]	4971	[6135, 1466]	7019	[1202, 3760]
876	[1585, 1586]	2924	[1788, 2187]	4972	[3259, 3982]	7020	[7575, 1209]
877	[1587, 1588]	2925	[4292, 2204]	4973	[6136, 5840]	7021	[7576, 1228]
878	[1589, 1590]	2926	[4293, 660]	4974	[1384, 1585]	7022	[7577, 76]
879	[1427, 1591]	2927	[164, 2599]	4975	[4030, 5346]	7023	[7578, 1337]
880	[1592, 1593]	2928	[4294, 4295]	4976	[6137, 1505]	7024	[7579, 3448]
881	[1569, 1594]	2929	[4296, 2240]	4977	[6138, 5941]	7025	[375, 5366]
882	[1595, 1596]	2930	[4297, 2049]	4978	[6139, 5938]	7026	[3333, 476]
883	[1597, 1598]	2931	[541, 502]	4979	[5694, 3582]	7027	[3655, 994]
884	[1599, 1600]	2932	[4298, 1830]	4980	[6140, 3477]	7028	[7580, 5385]
885	[1601, 1405]	2933	[4299, 1924]	4981	[1583, 2822]	7029	[1323, 5569]
886	[1602, 1577]	2934	[4300, 4301]	4982	[5624, 3282]	7030	[7581, 361]
887	[1603, 1604]	2935	[241, 4302]	4983	[6141, 2742]	7031	[5657, 3012]
888	[1605, 1606]	2936	[2101, 1649]	4984	[1375, 3743]	7032	[7582, 2740]
889	[1607, 1608]	2937	[4303, 4304]	4985	[6142, 3297]	7033	[7583, 2963]
890	[1609, 1371]	2938	[4305, 1835]	4986	[6143, 6144]	7034	[3092, 3350]
891	[1610, 1373]	2939	[4306, 479]	4987	[6145, 1088]	7035	[7584, 1349]
892	[1611, 1612]	2940	[4307, 4308]	4988	[6146, 293]	7036	[7585, 6381]
893	[1546, 1613]	2941	[4309, 4310]	4989	[1472, 3825]	7037	[7586, 1272]
894	[1614, 1615]	2942	[4311, 4138]	4990	[6109, 5849]	7038	[102, 7241]
895	[1616, 1617]	2943	[4312, 2038]	4991	[6147, 5512]	7039	[7587, 3828]
896	[1618, 1619]	2944	[1834, 4313]	4992	[6148, 286]	7040	[2897, 3568]

897	[933, 305]	2945	[4314, 2617]	4993	[6149, 3399]	7041	[7588, 2721]
898	[1620, 1138]	2946	[4315, 1816]	4994	[6150, 1571]	7042	[7589, 1465]
899	[1621, 1104]	2947	[4316, 2686]	4995	[6151, 3585]	7043	[3819, 5957]
900	[1622, 1623]	2948	[4317, 536]	4996	[6152, 3402]	7044	[3960, 3525]
901	[1624, 1625]	2949	[4318, 4124]	4997	[6153, 6057]	7045	[7590, 3833]
902	[1626, 1627]	2950	[4319, 61]	4998	[3932, 2753]	7046	[7591, 3112]
903	[1628, 602]	2951	[4320, 4321]	4999	[5877, 3433]	7047	[7592, 331]
904	[1629, 1630]	2952	[501, 4322]	5000	[6154, 438]	7048	[3090, 1464]
905	[1631, 1632]	2953	[4323, 2396]	5001	[6155, 5370]	7049	[7593, 3591]
906	[1633, 1634]	2954	[2172, 4324]	5002	[6156, 75]	7050	[7594, 3223]
907	[1635, 1636]	2955	[224, 4325]	5003	[255, 3322]	7051	[7595, 2747]
908	[1637, 1638]	2956	[4326, 839]	5004	[3687, 3419]	7052	[5503, 5939]
909	[712, 1639]	2957	[4327, 4328]	5005	[3802, 1122]	7053	[7596, 3551]
910	[1640, 1641]	2958	[2428, 1718]	5006	[6157, 3830]	7054	[7597, 7317]
911	[1642, 1643]	2959	[4329, 160]	5007	[5637, 3783]	7055	[7598, 934]
912	[1644, 1645]	2960	[4330, 2342]	5008	[3872, 1205]	7056	[2820, 6187]
913	[1646, 42]	2961	[4331, 1713]	5009	[3402, 1026]	7057	[7599, 1583]
914	[1647, 1648]	2962	[4332, 2200]	5010	[911, 1089]	7058	[7600, 1226]
915	[1649, 1650]	2963	[2573, 4293]	5011	[6158, 6159]	7059	[7601, 2948]
916	[1651, 1652]	2964	[4333, 2167]	5012	[6160, 3385]	7060	[7602, 1009]
917	[1653, 1654]	2965	[4334, 2119]	5013	[2929, 6161]	7061	[7247, 3884]
918	[1655, 1656]	2966	[4335, 175]	5014	[6162, 89]	7062	[7603, 1595]
919	[1657, 1658]	2967	[4336, 4337]	5015	[6163, 2878]	7063	[1362, 284]
920	[1659, 178]	2968	[4338, 888]	5016	[5715, 3772]	7064	[7604, 2786]
921	[1660, 1661]	2969	[4339, 2032]	5017	[6164, 3312]	7065	[7605, 1394]
922	[1662, 1663]	2970	[4340, 1650]	5018	[6165, 5376]	7066	[7606, 1017]
923	[1664, 1665]	2971	[4341, 575]	5019	[6166, 3074]	7067	[7607, 117]
924	[1666, 1667]	2972	[4342, 821]	5020	[3573, 3830]	7068	[7608, 5427]
925	[1668, 1669]	2973	[4343, 4344]	5021	[6167, 6168]	7069	[7609, 3817]
926	[1670, 1671]	2974	[4345, 4346]	5022	[6169, 3105]	7070	[7610, 3681]
927	[1672, 1673]	2975	[4347, 4348]	5023	[6170, 3621]	7071	[7611, 1393]
928	[678, 1674]	2976	[4349, 4160]	5024	[6171, 1148]	7072	[5445, 1001]
929	[1675, 1676]	2977	[4350, 606]	5025	[6172, 5411]	7073	[7612, 3503]
930	[1677, 165]	2978	[4351, 2498]	5026	[6173, 1578]	7074	[7613, 343]
931	[1678, 167]	2979	[4352, 176]	5027	[442, 1096]	7075	[3653, 2725]
932	[1679, 587]	2980	[4353, 4354]	5028	[471, 5609]	7076	[7614, 7277]
933	[1680, 1681]	2981	[4355, 4111]	5029	[6174, 6175]	7077	[7615, 3743]
934	[813, 1682]	2982	[2300, 4202]	5030	[967, 2824]	7078	[7616, 3766]
935	[1683, 1684]	2983	[4356, 2157]	5031	[6176, 5454]	7079	[7617, 3129]
936	[1685, 1686]	2984	[4357, 4358]	5032	[6177, 2780]	7080	[5358, 6214]
937	[1687, 806]	2985	[4359, 4092]	5033	[6178, 3325]	7081	[3756, 1524]
938	[1688, 885]	2986	[4360, 4361]	5034	[5377, 1135]	7082	[3792, 6093]
939	[1689, 722]	2987	[1732, 677]	5035	[6179, 6180]	7083	[7618, 3441]
940	[1690, 889]	2988	[4362, 2071]	5036	[1425, 5553]	7084	[7619, 3928]

941	[807, 1691]	2989	[4363, 2689]	5037	[6181, 2743]	7085	[7620, 3669]
942	[1692, 1693]	2990	[4039, 2255]	5038	[6182, 978]	7086	[7621, 5590]
943	[1694, 1695]	2991	[222, 495]	5039	[1029, 3834]	7087	[7622, 3288]
944	[1696, 1697]	2992	[4364, 1750]	5040	[5619, 1016]	7088	[7623, 1151]
945	[1698, 1699]	2993	[4365, 4366]	5041	[6183, 3950]	7089	[6032, 4009]
946	[1700, 1701]	2994	[4367, 4368]	5042	[6184, 1302]	7090	[121, 6015]
947	[1702, 1703]	2995	[2433, 2653]	5043	[6185, 3848]	7091	[909, 5418]
948	[814, 664]	2996	[4369, 708]	5044	[6186, 6187]	7092	[3666, 3618]
949	[1704, 1705]	2997	[2248, 2103]	5045	[3585, 2799]	7093	[98, 2780]
950	[1706, 1707]	2998	[4370, 2660]	5046	[6188, 3996]	7094	[7624, 418]
951	[1708, 1709]	2999	[4371, 4305]	5047	[6189, 6190]	7095	[7625, 5469]
952	[1710, 1711]	3000	[4372, 4373]	5048	[5840, 1541]	7096	[7626, 5895]
953	[525, 1712]	3001	[4374, 4375]	5049	[6191, 3229]	7097	[3613, 5402]
954	[231, 1713]	3002	[4376, 875]	5050	[5827, 6192]	7098	[7627, 2717]
955	[1714, 1715]	3003	[4377, 4378]	5051	[6193, 6194]	7099	[7628, 924]
956	[1716, 35]	3004	[1798, 4379]	5052	[6195, 2994]	7100	[3615, 2792]
957	[1717, 1718]	3005	[4380, 1864]	5053	[6196, 3143]	7101	[7629, 1208]
958	[1719, 828]	3006	[2482, 1662]	5054	[5989, 1295]	7102	[7630, 350]
959	[1720, 211]	3007	[4381, 1790]	5055	[3937, 6197]	7103	[7631, 1259]
960	[1721, 1722]	3008	[4382, 2580]	5056	[6198, 3242]	7104	[7632, 1306]
961	[1723, 1724]	3009	[4383, 1980]	5057	[6199, 5887]	7105	[7633, 3416]
962	[1725, 1726]	3010	[4384, 795]	5058	[969, 982]	7106	[7634, 3114]
963	[1727, 1728]	3011	[4385, 4386]	5059	[6200, 3682]	7107	[3646, 3096]
964	[1729, 1730]	3012	[4387, 4388]	5060	[6201, 2902]	7108	[7635, 4003]
965	[1731, 1732]	3013	[4389, 2027]	5061	[6202, 3675]	7109	[7636, 72]
966	[54, 1733]	3014	[4390, 2402]	5062	[1399, 1313]	7110	[7637, 5647]
967	[1734, 837]	3015	[4285, 4391]	5063	[6203, 5413]	7111	[7638, 1087]
968	[1735, 1736]	3016	[4392, 2269]	5064	[6204, 5915]	7112	[7639, 1258]
969	[1737, 205]	3017	[4393, 1802]	5065	[5733, 1387]	7113	[6296, 6043]
970	[1738, 1739]	3018	[2162, 2680]	5066	[6205, 5418]	7114	[7640, 2729]
971	[1740, 1741]	3019	[2064, 4394]	5067	[5908, 1401]	7115	[463, 3596]
972	[738, 1742]	3020	[4395, 4396]	5068	[6206, 2778]	7116	[3678, 3429]
973	[1743, 1744]	3021	[4397, 203]	5069	[5354, 5750]	7117	[7641, 5818]
974	[1691, 863]	3022	[4398, 4399]	5070	[3817, 101]	7118	[7642, 3531]
975	[1745, 1746]	3023	[4400, 4401]	5071	[6207, 3464]	7119	[7643, 2832]
976	[1747, 1748]	3024	[4402, 597]	5072	[6208, 3877]	7120	[6341, 3750]
977	[1749, 1750]	3025	[4182, 1983]	5073	[6209, 1287]	7121	[5521, 3637]
978	[1751, 1752]	3026	[2384, 4403]	5074	[6210, 3303]	7122	[7644, 3388]
979	[546, 1753]	3027	[4404, 1824]	5075	[6211, 3412]	7123	[7645, 3968]
980	[1754, 1755]	3028	[4405, 1726]	5076	[6212, 1372]	7124	[7646, 1344]
981	[1756, 1757]	3029	[4406, 4407]	5077	[6213, 6214]	7125	[5819, 5417]
982	[1758, 1759]	3030	[4408, 4409]	5078	[6215, 5708]	7126	[6104, 7242]
983	[1760, 1761]	3031	[4410, 4411]	5079	[6216, 3679]	7127	[7127, 7127]
984	[1762, 1763]	3032	[4412, 4245]	5080	[3409, 3848]	7128	[3676, 259]

985	[1764, 1765]	3033	[784, 2241]	5081	[5388, 2802]	7129	[7647, 5695]
986	[131, 787]	3034	[4413, 4414]	5082	[6217, 2999]	7130	[7648, 905]
987	[1766, 1767]	3035	[4415, 2428]	5083	[3377, 3165]	7131	[2939, 2701]
988	[760, 10]	3036	[4416, 721]	5084	[1060, 6218]	7132	[6194, 3460]
989	[1768, 1769]	3037	[4417, 4338]	5085	[6219, 1308]	7133	[5605, 3972]
990	[1770, 1771]	3038	[4418, 4419]	5086	[6220, 1456]	7134	[7649, 1339]
991	[1772, 1773]	3039	[4420, 2034]	5087	[6221, 3997]	7135	[5486, 7199]
992	[1774, 1775]	3040	[1648, 4421]	5088	[5495, 5901]	7136	[3098, 3303]
993	[1776, 40]	3041	[2464, 846]	5089	[6043, 6222]	7137	[7317, 6190]
994	[1777, 796]	3042	[823, 2282]	5090	[6223, 3438]	7138	[3691, 1289]
995	[1778, 1779]	3043	[4422, 4171]	5091	[6224, 3319]	7139	[7650, 3473]
996	[1780, 1781]	3044	[4423, 2365]	5092	[6225, 3272]	7140	[7651, 3890]
997	[1782, 1783]	3045	[4424, 2408]	5093	[6226, 5615]	7141	[1233, 1325]
998	[1784, 1785]	3046	[4425, 2007]	5094	[6227, 3002]	7142	[7652, 1107]
999	[879, 1786]	3047	[4426, 2513]	5095	[1258, 360]	7143	[7653, 6122]
1000	[1787, 1788]	3048	[4427, 4428]	5096	[6228, 6229]	7144	[7654, 1495]
1001	[1789, 686]	3049	[4429, 1960]	5097	[2808, 5657]	7145	[952, 5660]
1002	[1790, 1791]	3050	[2523, 4430]	5098	[915, 1364]	7146	[7655, 3280]
1003	[1792, 1793]	3051	[4431, 590]	5099	[6230, 3261]	7147	[7656, 7279]
1004	[1794, 1795]	3052	[4432, 2481]	5100	[6231, 3668]	7148	[7657, 1612]
1005	[1796, 1797]	3053	[4433, 623]	5101	[3317, 6232]	7149	[7658, 3463]
1006	[1786, 1798]	3054	[1980, 4434]	5102	[6233, 6168]	7150	[7659, 2811]
1007	[1799, 1800]	3055	[4435, 4345]	5103	[6234, 66]	7151	[7660, 1545]
1008	[1801, 1802]	3056	[2575, 171]	5104	[6235, 5619]	7152	[7661, 988]
1009	[1803, 1804]	3057	[2268, 4436]	5105	[3578, 3488]	7153	[7662, 3263]
1010	[1805, 762]	3058	[4437, 4438]	5106	[6236, 5425]	7154	[7663, 4011]
1011	[1806, 578]	3059	[4439, 826]	5107	[6237, 3343]	7155	[3951, 3931]
1012	[1807, 1808]	3060	[4440, 4441]	5108	[6047, 3045]	7156	[7664, 2930]
1013	[1809, 1810]	3061	[181, 2671]	5109	[6238, 3891]	7157	[5351, 3482]
1014	[1811, 1700]	3062	[4442, 4443]	5110	[6239, 5697]	7158	[5543, 1617]
1015	[1812, 1813]	3063	[552, 723]	5111	[6240, 3966]	7159	[3357, 3062]
1016	[1814, 814]	3064	[4444, 557]	5112	[3057, 5492]	7160	[7665, 2804]
1017	[1711, 1815]	3065	[4445, 4446]	5113	[6241, 3093]	7161	[7666, 2760]
1018	[1816, 1817]	3066	[1753, 4288]	5114	[1013, 5512]	7162	[3869, 372]
1019	[1818, 1819]	3067	[4447, 4448]	5115	[6242, 2992]	7163	[7667, 1409]
1020	[1820, 1821]	3068	[4399, 4449]	5116	[6243, 4002]	7164	[3603, 448]
1021	[1822, 188]	3069	[4450, 153]	5117	[6244, 3032]	7165	[5825, 16]
1022	[668, 192]	3070	[4451, 4452]	5118	[3109, 996]	7166	[3920, 1407]
1023	[1823, 194]	3071	[4453, 4454]	5119	[6245, 3233]	7167	[7668, 1410]
1024	[1824, 1825]	3072	[4455, 650]	5120	[6246, 1558]	7168	[7669, 1239]
1025	[1826, 1827]	3073	[4456, 4457]	5121	[6247, 2889]	7169	[7670, 5486]
1026	[1828, 1829]	3074	[4458, 4459]	5122	[1486, 3059]	7170	[7671, 3690]
1027	[1830, 1831]	3075	[4460, 4461]	5123	[6128, 5383]	7171	[7672, 3685]
1028	[897, 1638]	3076	[4462, 2536]	5124	[2727, 3233]	7172	[1070, 5501]

1029	[1832, 1791]	3077	[4463, 520]	5125	[1464, 1474]	7173	[7673, 1461]
1030	[1833, 1834]	3078	[4464, 2340]	5126	[3788, 1178]	7174	[2734, 3866]
1031	[1835, 1836]	3079	[861, 796]	5127	[6248, 1206]	7175	[7674, 1556]
1032	[1837, 1838]	3080	[4324, 4465]	5128	[6249, 3078]	7176	[3683, 3836]
1033	[1839, 1840]	3081	[4466, 850]	5129	[6250, 384]	7177	[7675, 1449]
1034	[1841, 1842]	3082	[4467, 4338]	5130	[4014, 5393]	7178	[5470, 6390]
1035	[1843, 1844]	3083	[1930, 4468]	5131	[5411, 3975]	7179	[7676, 403]
1036	[1845, 1846]	3084	[515, 2178]	5132	[6251, 3164]	7180	[7677, 6281]
1037	[1847, 199]	3085	[4386, 652]	5133	[6252, 6197]	7181	[7678, 962]
1038	[1848, 1849]	3086	[4469, 4470]	5134	[6057, 2869]	7182	[7679, 2711]
1039	[1850, 1851]	3087	[4471, 2247]	5135	[6253, 1569]	7183	[7680, 432]
1040	[1852, 1853]	3088	[4472, 4473]	5136	[6254, 1108]	7184	[3114, 3837]
1041	[1854, 1643]	3089	[4474, 2171]	5137	[6255, 3115]	7185	[7681, 1469]
1042	[58, 1855]	3090	[4475, 4476]	5138	[5660, 3556]	7186	[7682, 5920]
1043	[1856, 1857]	3091	[768, 140]	5139	[3608, 1475]	7187	[4032, 1355]
1044	[1858, 1859]	3092	[4477, 2539]	5140	[6256, 253]	7188	[1392, 5646]
1045	[1860, 866]	3093	[4478, 4414]	5141	[6257, 5707]	7189	[7683, 359]
1046	[1861, 1841]	3094	[4295, 4121]	5142	[5904, 3762]	7190	[7684, 909]
1047	[1862, 1863]	3095	[4479, 4480]	5143	[6258, 5903]	7191	[4020, 6358]
1048	[1864, 715]	3096	[4481, 4482]	5144	[6259, 5354]	7192	[3054, 3869]
1049	[1865, 1866]	3097	[4483, 2486]	5145	[3383, 5827]	7193	[7685, 1691]
1050	[1867, 146]	3098	[4484, 1994]	5146	[6260, 3351]	7194	[766, 7189]
1051	[1868, 1869]	3099	[4485, 1877]	5147	[6261, 3266]	7195	[4712, 5210]
1052	[1870, 577]	3100	[4045, 4419]	5148	[6262, 306]	7196	[7686, 4558]
1053	[1871, 1872]	3101	[4486, 4487]	5149	[6263, 2907]	7197	[7687, 2504]
1054	[1873, 1874]	3102	[4488, 4213]	5150	[3731, 2751]	7198	[497, 4390]
1055	[1875, 701]	3103	[728, 4489]	5151	[6264, 2744]	7199	[7688, 2526]
1056	[1876, 1877]	3104	[4490, 1910]	5152	[5683, 3078]	7200	[1665, 6814]
1057	[1878, 201]	3105	[4491, 1902]	5153	[6265, 954]	7201	[135, 7689]
1058	[1879, 1880]	3106	[4492, 4493]	5154	[6266, 939]	7202	[2688, 6600]
1059	[1881, 1882]	3107	[1838, 2366]	5155	[6093, 971]	7203	[210, 6922]
1060	[1883, 1884]	3108	[4273, 4118]	5156	[6267, 1169]	7204	[7690, 5101]
1061	[1885, 156]	3109	[4494, 2589]	5157	[6268, 118]	7205	[6745, 873]
1062	[1886, 1887]	3110	[4495, 4496]	5158	[3564, 6269]	7206	[5064, 4493]
1063	[1888, 1889]	3111	[4497, 4498]	5159	[6270, 3013]	7207	[2351, 6417]
1064	[1890, 1891]	3112	[4499, 493]	5160	[6271, 6272]	7208	[2408, 7154]
1065	[1892, 1893]	3113	[4500, 2692]	5161	[6273, 1086]	7209	[7691, 4505]
1066	[1894, 1895]	3114	[4501, 752]	5162	[6274, 973]	7210	[7692, 2263]
1067	[1896, 1897]	3115	[208, 4149]	5163	[6275, 3516]	7211	[4219, 6852]
1068	[1898, 1899]	3116	[4502, 4470]	5164	[6276, 6277]	7212	[7693, 2128]
1069	[1900, 1901]	3117	[792, 4361]	5165	[5587, 1429]	7213	[7694, 886]
1070	[1902, 1903]	3118	[4503, 2021]	5166	[6278, 3345]	7214	[7695, 5002]
1071	[1904, 1905]	3119	[4504, 2172]	5167	[6279, 3812]	7215	[7696, 4903]
1072	[1906, 1907]	3120	[4115, 4505]	5168	[1123, 5432]	7216	[7697, 174]

1073	[1908, 657]	3121	[752, 4250]	5169	[3242, 447]	7217	[2279, 619]
1074	[1909, 1910]	3122	[2227, 1895]	5170	[6280, 3511]	7218	[7105, 4217]
1075	[1911, 1707]	3123	[1855, 4506]	5171	[5472, 3648]	7219	[7698, 5140]
1076	[1912, 1913]	3124	[1656, 246]	5172	[6281, 3105]	7220	[7119, 812]
1077	[1914, 1915]	3125	[4507, 2356]	5173	[6282, 3235]	7221	[7699, 5298]
1078	[1916, 1917]	3126	[4508, 2573]	5174	[6283, 5631]	7222	[7700, 4799]
1079	[1842, 1918]	3127	[4509, 519]	5175	[6284, 3298]	7223	[7701, 4731]
1080	[1919, 1920]	3128	[4510, 4511]	5176	[6285, 356]	7224	[7702, 6866]
1081	[1921, 202]	3129	[1718, 2537]	5177	[6286, 1123]	7225	[7703, 2537]
1082	[1728, 1922]	3130	[4217, 835]	5178	[6287, 4028]	7226	[6413, 1847]
1083	[1923, 674]	3131	[4132, 4512]	5179	[6288, 1530]	7227	[4576, 7704]
1084	[1924, 1925]	3132	[4513, 836]	5180	[6289, 3310]	7228	[5270, 161]
1085	[1926, 234]	3133	[4514, 2279]	5181	[6290, 5517]	7229	[5028, 4882]
1086	[1927, 1853]	3134	[2604, 4367]	5182	[5803, 3394]	7230	[7705, 4386]
1087	[1928, 1929]	3135	[686, 2621]	5183	[1458, 325]	7231	[7706, 4853]
1088	[575, 1930]	3136	[1634, 2616]	5184	[6291, 3866]	7232	[1671, 2043]
1089	[1931, 1932]	3137	[4515, 4294]	5185	[6292, 1591]	7233	[6686, 1730]
1090	[1933, 1934]	3138	[4516, 2463]	5186	[6293, 1203]	7234	[7707, 4402]
1091	[1935, 1936]	3139	[2481, 491]	5187	[6294, 5902]	7235	[7708, 709]
1092	[1937, 1938]	3140	[4517, 4518]	5188	[6295, 6296]	7236	[2647, 6994]
1093	[832, 1939]	3141	[4212, 4519]	5189	[6297, 6269]	7237	[7709, 4444]
1094	[1940, 1896]	3142	[4520, 140]	5190	[1372, 3297]	7238	[1682, 2229]
1095	[1941, 821]	3143	[4193, 2324]	5191	[6298, 422]	7239	[1797, 5236]
1096	[1942, 1943]	3144	[4521, 730]	5192	[6299, 6234]	7240	[7710, 6566]
1097	[1944, 1945]	3145	[4522, 2035]	5193	[6300, 5356]	7241	[7711, 4209]
1098	[1827, 1946]	3146	[4523, 4324]	5194	[6301, 6302]	7242	[7712, 5102]
1099	[1947, 1948]	3147	[2451, 2219]	5195	[6303, 6304]	7243	[7713, 4237]
1100	[1949, 1950]	3148	[4524, 4525]	5196	[3616, 5731]	7244	[7714, 6439]
1101	[1951, 1952]	3149	[4526, 2048]	5197	[3539, 5539]	7245	[1917, 6563]
1102	[1707, 228]	3150	[4527, 4466]	5198	[6305, 3386]	7246	[4754, 31]
1103	[1953, 1954]	3151	[2151, 4528]	5199	[6306, 3398]	7247	[7715, 6788]
1104	[1955, 1956]	3152	[4529, 4294]	5200	[6307, 968]	7248	[4900, 4429]
1105	[1957, 1958]	3153	[4530, 2210]	5201	[6308, 3005]	7249	[6667, 5282]
1106	[1959, 1960]	3154	[4531, 4052]	5202	[6309, 449]	7250	[7716, 4457]
1107	[1961, 1962]	3155	[4532, 2100]	5203	[6310, 5358]	7251	[2445, 2403]
1108	[1963, 1964]	3156	[4170, 4443]	5204	[3334, 3917]	7252	[7717, 4776]
1109	[1965, 1966]	3157	[4533, 4534]	5205	[6311, 1194]	7253	[7718, 753]
1110	[1967, 1968]	3158	[4535, 224]	5206	[3533, 3080]	7254	[2331, 7122]
1111	[1969, 1970]	3159	[4536, 697]	5207	[6312, 1101]	7255	[7719, 2623]
1112	[1971, 1900]	3160	[4388, 2073]	5208	[6313, 1540]	7256	[7720, 683]
1113	[1972, 1973]	3161	[4537, 4158]	5209	[6314, 3165]	7257	[6429, 2328]
1114	[1974, 1737]	3162	[1748, 4538]	5210	[6315, 296]	7258	[7721, 7181]
1115	[1975, 1883]	3163	[4539, 2234]	5211	[1110, 3295]	7259	[7722, 6545]
1116	[1976, 608]	3164	[2447, 2236]	5212	[6316, 3576]	7260	[7723, 2521]

1117	[1977, 1978]	3165	[4540, 1934]	5213	[6317, 3508]	7261	[1950, 4561]
1118	[1979, 1980]	3166	[573, 1679]	5214	[6318, 6108]	7262	[2533, 7142]
1119	[1981, 1982]	3167	[4541, 4542]	5215	[3311, 2932]	7263	[838, 7180]
1120	[1983, 1984]	3168	[4543, 1752]	5216	[6319, 1155]	7264	[6640, 526]
1121	[1985, 888]	3169	[4544, 205]	5217	[6190, 5362]	7265	[7724, 6476]
1122	[1986, 1874]	3170	[4545, 134]	5218	[6320, 3805]	7266	[7060, 4317]
1123	[1987, 1952]	3171	[4546, 1748]	5219	[6321, 2784]	7267	[4734, 4739]
1124	[772, 1988]	3172	[4547, 4128]	5220	[6322, 3406]	7268	[4430, 4995]
1125	[1989, 1990]	3173	[4548, 59]	5221	[5580, 1523]	7269	[7725, 4647]
1126	[1991, 1992]	3174	[4549, 770]	5222	[6323, 3236]	7270	[7726, 6426]
1127	[1993, 1994]	3175	[4550, 1918]	5223	[3512, 1564]	7271	[5164, 7045]
1128	[1995, 1996]	3176	[4108, 4551]	5224	[6324, 1238]	7272	[6601, 4863]
1129	[1997, 1998]	3177	[4552, 4553]	5225	[6325, 257]	7273	[7727, 2289]
1130	[1999, 2000]	3178	[4554, 2548]	5226	[6326, 937]	7274	[7728, 2080]
1131	[2001, 2002]	3179	[4555, 239]	5227	[6327, 3575]	7275	[7729, 4792]
1132	[2003, 2004]	3180	[4556, 2553]	5228	[348, 992]	7276	[7730, 2598]
1133	[2005, 2006]	3181	[1945, 4344]	5229	[6328, 5730]	7277	[6789, 5089]
1134	[2007, 2008]	3182	[4557, 894]	5230	[2855, 5944]	7278	[6522, 6790]
1135	[2009, 1744]	3183	[4168, 4558]	5231	[1221, 4035]	7279	[6431, 4587]
1136	[2010, 2011]	3184	[4559, 4560]	5232	[6329, 3606]	7280	[7731, 2525]
1137	[2012, 2013]	3185	[4561, 39]	5233	[6330, 1417]	7281	[7096, 703]
1138	[2014, 2015]	3186	[4562, 2632]	5234	[3966, 4023]	7282	[7732, 528]
1139	[2016, 2017]	3187	[2440, 2010]	5235	[1364, 1365]	7283	[7733, 619]
1140	[2018, 707]	3188	[4563, 4564]	5236	[6331, 5549]	7284	[7734, 6950]
1141	[2019, 538]	3189	[2399, 4565]	5237	[3052, 3126]	7285	[7735, 4797]
1142	[2020, 2021]	3190	[4566, 242]	5238	[6332, 2745]	7286	[7736, 1974]
1143	[2022, 2023]	3191	[2074, 1849]	5239	[440, 5355]	7287	[7737, 4458]
1144	[34, 757]	3192	[4567, 4568]	5240	[6333, 3116]	7288	[5316, 2052]
1145	[2024, 2025]	3193	[4569, 844]	5241	[6334, 3680]	7289	[2674, 7185]
1146	[2026, 2027]	3194	[4570, 4571]	5242	[6335, 5788]	7290	[7738, 4805]
1147	[2028, 2029]	3195	[4572, 598]	5243	[6336, 6337]	7291	[1695, 2495]
1148	[2030, 218]	3196	[4573, 4290]	5244	[5464, 5603]	7292	[7739, 4803]
1149	[2031, 2032]	3197	[4574, 887]	5245	[6338, 3789]	7293	[2580, 6891]
1150	[2033, 2034]	3198	[4575, 4576]	5246	[6339, 3721]	7294	[4414, 7168]
1151	[2035, 2020]	3199	[4577, 4241]	5247	[5832, 5768]	7295	[4553, 4748]
1152	[2036, 2037]	3200	[4578, 2245]	5248	[6340, 6341]	7296	[7740, 5116]
1153	[2038, 2039]	3201	[4579, 603]	5249	[6342, 3538]	7297	[7741, 4123]
1154	[2040, 510]	3202	[4580, 4581]	5250	[6343, 1174]	7298	[7742, 4112]
1155	[2041, 2042]	3203	[4582, 1673]	5251	[1183, 5424]	7299	[1771, 1919]
1156	[2043, 2044]	3204	[1639, 1862]	5252	[6344, 5768]	7300	[7743, 2241]
1157	[2045, 2046]	3205	[4583, 4584]	5253	[6345, 3124]	7301	[6581, 2247]
1158	[2047, 2048]	3206	[4585, 892]	5254	[922, 1107]	7302	[202, 2317]
1159	[2049, 2050]	3207	[4586, 526]	5255	[6346, 3797]	7303	[4693, 6584]
1160	[2051, 2052]	3208	[4587, 4588]	5256	[6347, 3775]	7304	[7744, 4137]

1161	[2053, 1996]	3209	[2153, 4589]	5257	[2948, 3381]	7305	[7745, 230]
1162	[2054, 2055]	3210	[4590, 4278]	5258	[6348, 3703]	7306	[7746, 4546]
1163	[2056, 1753]	3211	[4591, 764]	5259	[3680, 981]	7307	[7747, 1969]
1164	[705, 553]	3212	[2039, 506]	5260	[6349, 5932]	7308	[2628, 1749]
1165	[2057, 2058]	3213	[720, 4159]	5261	[5368, 3894]	7309	[7748, 835]
1166	[2059, 1836]	3214	[2141, 4592]	5262	[6350, 3779]	7310	[7749, 6541]
1167	[2060, 2061]	3215	[4593, 4594]	5263	[6351, 3060]	7311	[7750, 7005]
1168	[2062, 165]	3216	[1783, 4473]	5264	[3168, 1419]	7312	[7751, 4273]
1169	[2063, 2064]	3217	[4595, 1995]	5265	[6352, 940]	7313	[7752, 7753]
1170	[2065, 840]	3218	[1851, 4064]	5266	[1438, 6039]	7314	[7754, 6922]
1171	[2066, 747]	3219	[606, 1989]	5267	[6353, 324]	7315	[6647, 4915]
1172	[2067, 2068]	3220	[4596, 4597]	5268	[3191, 5938]	7316	[7755, 5177]
1173	[2069, 2070]	3221	[4598, 4599]	5269	[1344, 1480]	7317	[6584, 5218]
1174	[2071, 2072]	3222	[4600, 668]	5270	[6354, 6355]	7318	[697, 5167]
1175	[2073, 2074]	3223	[1831, 4305]	5271	[6356, 465]	7319	[652, 6861]
1176	[2075, 2076]	3224	[542, 524]	5272	[6357, 6358]	7320	[6746, 6526]
1177	[2077, 226]	3225	[4601, 832]	5273	[5443, 5706]	7321	[5047, 2442]
1178	[2078, 2079]	3226	[4602, 147]	5274	[6359, 5683]	7322	[6678, 4614]
1179	[2080, 2081]	3227	[4603, 2506]	5275	[3074, 311]	7323	[7756, 5157]
1180	[2082, 2083]	3228	[1929, 1878]	5276	[6360, 5610]	7324	[7757, 4567]
1181	[2084, 532]	3229	[4604, 4605]	5277	[5998, 5895]	7325	[7758, 4911]
1182	[2085, 1663]	3230	[4606, 4607]	5278	[6361, 333]	7326	[6458, 4330]
1183	[684, 2086]	3231	[2006, 4608]	5279	[6362, 3545]	7327	[4051, 2013]
1184	[2087, 2088]	3232	[4609, 2062]	5280	[3700, 6134]	7328	[7759, 7760]
1185	[2089, 2090]	3233	[4610, 2593]	5281	[6363, 5904]	7329	[7761, 6738]
1186	[2091, 2092]	3234	[2068, 4611]	5282	[6364, 1587]	7330	[4668, 5001]
1187	[2093, 1742]	3235	[4612, 238]	5283	[1240, 3017]	7331	[4177, 6950]
1188	[2094, 614]	3236	[4613, 2694]	5284	[6365, 1606]	7332	[7762, 4715]
1189	[2095, 2096]	3237	[4614, 238]	5285	[6366, 388]	7333	[6592, 4595]
1190	[2097, 2098]	3238	[4605, 4615]	5286	[6367, 1274]	7334	[7763, 4619]
1191	[2099, 2082]	3239	[4616, 2673]	5287	[6368, 1481]	7335	[4321, 4198]
1192	[2100, 2101]	3240	[2487, 736]	5288	[6369, 5706]	7336	[2148, 4477]
1193	[2102, 1785]	3241	[4617, 898]	5289	[6370, 6371]	7337	[1650, 5051]
1194	[2103, 851]	3242	[4089, 4056]	5290	[1394, 5889]	7338	[6529, 6416]
1195	[2104, 2105]	3243	[644, 4618]	5291	[6372, 3940]	7339	[7764, 6459]
1196	[2106, 2107]	3244	[4619, 4467]	5292	[6373, 6192]	7340	[5195, 2438]
1197	[2108, 858]	3245	[4620, 4541]	5293	[6374, 3688]	7341	[7765, 2442]
1198	[2109, 728]	3246	[4621, 4059]	5294	[6375, 6052]	7342	[6775, 4647]
1199	[2110, 2111]	3247	[4622, 2295]	5295	[6376, 1492]	7343	[4493, 5339]
1200	[2112, 2113]	3248	[4623, 2671]	5296	[994, 2961]	7344	[7766, 696]
1201	[2114, 2115]	3249	[4624, 2045]	5297	[6377, 3038]	7345	[1857, 4101]
1202	[1966, 2116]	3250	[4625, 2225]	5298	[6378, 2764]	7346	[7767, 4833]
1203	[2117, 2118]	3251	[4626, 754]	5299	[6379, 1035]	7347	[1899, 2532]
1204	[2119, 2120]	3252	[4627, 4628]	5300	[3239, 3949]	7348	[4220, 5120]

1205	[2121, 647]	3253	[4629, 645]	5301	[5853, 6085]	7349	[7768, 7049]
1206	[1884, 2122]	3254	[4630, 4631]	5302	[5356, 6380]	7350	[7769, 7098]
1207	[2123, 212]	3255	[630, 1697]	5303	[6381, 1038]	7351	[7770, 4073]
1208	[539, 2124]	3256	[2242, 2138]	5304	[3119, 2953]	7352	[4248, 1973]
1209	[2125, 2126]	3257	[4632, 1671]	5305	[6382, 6383]	7353	[2315, 1723]
1210	[2127, 2057]	3258	[4633, 4348]	5306	[3917, 3978]	7354	[2476, 6899]
1211	[550, 2128]	3259	[2369, 1686]	5307	[6384, 1247]	7355	[7771, 4435]
1212	[2129, 1797]	3260	[4634, 4605]	5308	[6385, 3918]	7356	[1821, 5151]
1213	[826, 685]	3261	[4635, 489]	5309	[6386, 474]	7357	[2562, 895]
1214	[2130, 830]	3262	[4636, 2545]	5310	[6387, 2710]	7358	[7772, 5288]
1215	[2131, 1864]	3263	[505, 2096]	5311	[6388, 1158]	7359	[7773, 2527]
1216	[2132, 1954]	3264	[1829, 4637]	5312	[6015, 3248]	7360	[7774, 2046]
1217	[2133, 601]	3265	[569, 4638]	5313	[6389, 6390]	7361	[5026, 5064]
1218	[2134, 810]	3266	[519, 4639]	5314	[6391, 1345]	7362	[7775, 4596]
1219	[2135, 2136]	3267	[4640, 1859]	5315	[6392, 2810]	7363	[7689, 2221]
1220	[1889, 786]	3268	[2303, 4641]	5316	[6393, 1374]	7364	[7776, 5025]
1221	[2137, 2138]	3269	[4642, 4643]	5317	[5929, 1215]	7365	[7777, 6814]
1222	[1913, 2139]	3270	[4644, 558]	5318	[2873, 3778]	7366	[7778, 31]
1223	[2140, 2141]	3271	[659, 2518]	5319	[6394, 3847]	7367	[7779, 4198]
1224	[2142, 2143]	3272	[661, 580]	5320	[1390, 1562]	7368	[4665, 1762]
1225	[2144, 46]	3273	[4645, 1822]	5321	[6395, 3425]	7369	[7780, 6654]
1226	[2145, 2146]	3274	[4584, 2447]	5322	[6358, 3389]	7370	[7083, 1944]
1227	[2147, 818]	3275	[4646, 518]	5323	[6396, 71]	7371	[5141, 760]
1228	[1819, 2148]	3276	[4647, 2455]	5324	[1317, 5759]	7372	[5209, 5100]
1229	[2149, 1933]	3277	[4373, 4648]	5325	[6397, 5761]	7373	[7781, 4588]
1230	[2150, 2151]	3278	[4649, 4650]	5326	[6398, 3059]	7374	[7782, 2693]
1231	[2152, 2153]	3279	[4651, 1825]	5327	[6399, 2755]	7375	[7783, 4265]
1232	[2154, 2155]	3280	[4652, 4494]	5328	[434, 2934]	7376	[7784, 5077]
1233	[2156, 1982]	3281	[4653, 2148]	5329	[3489, 3852]	7377	[7785, 1936]
1234	[703, 551]	3282	[4654, 618]	5330	[6400, 1475]	7378	[2155, 4837]
1235	[237, 1658]	3283	[834, 691]	5331	[6401, 421]	7379	[2158, 4458]
1236	[2157, 2111]	3284	[4655, 4047]	5332	[3437, 3802]	7380	[7786, 869]
1237	[48, 2158]	3285	[4656, 720]	5333	[6402, 5670]	7381	[614, 7104]
1238	[50, 2159]	3286	[2597, 2277]	5334	[6403, 426]	7382	[1645, 869]
1239	[2160, 685]	3287	[4657, 2449]	5335	[6404, 3336]	7383	[7787, 1937]
1240	[2161, 2162]	3288	[579, 4336]	5336	[3035, 5379]	7384	[6861, 880]
1241	[2163, 2164]	3289	[4658, 4430]	5337	[6405, 1476]	7385	[853, 2479]
1242	[655, 1698]	3290	[4659, 505]	5338	[6406, 3277]	7386	[5109, 7036]
1243	[2165, 723]	3291	[4660, 1911]	5339	[6407, 5636]	7387	[7036, 6752]
1244	[1887, 2166]	3292	[2692, 4661]	5340	[6408, 5704]	7388	[7189, 7788]
1245	[2167, 2168]	3293	[4662, 864]	5341	[6409, 5586]	7389	[1874, 2080]
1246	[2169, 2170]	3294	[2601, 4663]	5342	[6410, 1666]	7390	[646, 4161]
1247	[2171, 2172]	3295	[4664, 4665]	5343	[4203, 2239]	7391	[4777, 594]
1248	[2173, 1992]	3296	[1968, 2303]	5344	[6411, 4989]	7392	[7789, 2654]

1249	[2174, 721]	3297	[4666, 2594]	5345	[6412, 6413]	7393	[7790, 6643]
1250	[36, 705]	3298	[4667, 4668]	5346	[6414, 677]	7394	[7791, 4985]
1251	[2175, 2134]	3299	[4669, 1719]	5347	[6415, 2256]	7395	[6792, 4610]
1252	[2176, 2177]	3300	[4670, 2072]	5348	[6416, 2014]	7396	[2571, 486]
1253	[2178, 214]	3301	[4671, 4672]	5349	[6417, 508]	7397	[7792, 4672]
1254	[2179, 2018]	3302	[4673, 2559]	5350	[6418, 6419]	7398	[7793, 4593]
1255	[2180, 2181]	3303	[4674, 4675]	5351	[6420, 233]	7399	[7794, 6602]
1256	[2182, 1879]	3304	[1994, 2355]	5352	[6421, 2]	7400	[2270, 6541]
1257	[2183, 1727]	3305	[4676, 4677]	5353	[6422, 5143]	7401	[7795, 4229]
1258	[2184, 2185]	3306	[4678, 4679]	5354	[6423, 4303]	7402	[1781, 4182]
1259	[2186, 2187]	3307	[4680, 4681]	5355	[6424, 1728]	7403	[7796, 2223]
1260	[1836, 2188]	3308	[4682, 4683]	5356	[4234, 151]	7404	[4186, 5082]
1261	[2189, 524]	3309	[4684, 1964]	5357	[6425, 5006]	7405	[7797, 7798]
1262	[2190, 2191]	3310	[4685, 4103]	5358	[2630, 1912]	7406	[4891, 1963]
1263	[2192, 799]	3311	[699, 2233]	5359	[6426, 6427]	7407	[7799, 2644]
1264	[2193, 2194]	3312	[4686, 2420]	5360	[6428, 149]	7408	[7800, 6633]
1265	[2195, 2090]	3313	[4411, 2448]	5361	[4677, 6429]	7409	[7801, 7168]
1266	[2196, 1695]	3314	[4687, 4688]	5362	[6430, 6431]	7410	[7802, 6834]
1267	[1676, 41]	3315	[4689, 4690]	5363	[6432, 190]	7411	[7803, 4835]
1268	[2197, 2198]	3316	[4691, 4222]	5364	[6433, 2455]	7412	[7804, 6656]
1269	[2199, 492]	3317	[4692, 4693]	5365	[6434, 2445]	7413	[4724, 549]
1270	[509, 2200]	3318	[4694, 2313]	5366	[6435, 4434]	7414	[2206, 718]
1271	[2201, 2202]	3319	[4695, 2113]	5367	[6436, 5227]	7415	[7805, 4483]
1272	[2203, 2204]	3320	[1910, 2697]	5368	[6437, 487]	7416	[7806, 4661]
1273	[2205, 2206]	3321	[4696, 2409]	5369	[1954, 2064]	7417	[7807, 1845]
1274	[2207, 1854]	3322	[4697, 4698]	5370	[6438, 1939]	7418	[7808, 5226]
1275	[2208, 585]	3323	[4699, 2099]	5371	[5096, 1627]	7419	[7809, 7704]
1276	[2209, 2210]	3324	[2328, 2614]	5372	[6439, 4906]	7420	[4337, 4796]
1277	[1742, 2211]	3325	[2044, 4700]	5373	[6440, 4385]	7421	[7810, 4802]
1278	[2212, 1841]	3326	[4701, 4702]	5374	[5288, 6441]	7422	[7811, 188]
1279	[2213, 2214]	3327	[4703, 712]	5375	[6442, 6443]	7423	[7812, 6751]
1280	[2215, 2216]	3328	[4704, 1709]	5376	[4663, 5055]	7424	[7813, 7180]
1281	[592, 2217]	3329	[4705, 2330]	5377	[6444, 2010]	7425	[7814, 4869]
1282	[2218, 2219]	3330	[4706, 1958]	5378	[6445, 5326]	7426	[7815, 5213]
1283	[2220, 1903]	3331	[4707, 4125]	5379	[6446, 2538]	7427	[7103, 5229]
1284	[2221, 2222]	3332	[4708, 2579]	5380	[1970, 4278]	7428	[7816, 5001]
1285	[1703, 2223]	3333	[4709, 1795]	5381	[6447, 4469]	7429	[4538, 5094]
1286	[2224, 2225]	3334	[4558, 714]	5382	[4328, 4463]	7430	[7817, 5029]
1287	[2226, 2227]	3335	[4710, 1712]	5383	[6448, 4883]	7431	[7818, 6658]
1288	[2228, 2229]	3336	[4711, 2341]	5384	[6449, 890]	7432	[7819, 4529]
1289	[2230, 569]	3337	[2569, 4712]	5385	[805, 4989]	7433	[2288, 4750]
1290	[2231, 59]	3338	[1752, 4049]	5386	[38, 2508]	7434	[4872, 5325]
1291	[2232, 2233]	3339	[565, 4713]	5387	[6450, 2378]	7435	[2138, 4628]
1292	[2234, 2121]	3340	[4283, 58]	5388	[634, 548]	7436	[168, 4976]

1293	[1693, 2235]	3341	[4714, 480]	5389	[671, 1794]	7437	[7820, 7119]
1294	[2236, 564]	3342	[2011, 4130]	5390	[6451, 4325]	7438	[830, 6701]
1295	[2237, 41]	3343	[4715, 4716]	5391	[6452, 6453]	7439	[7821, 4389]
1296	[2238, 582]	3344	[4717, 4608]	5392	[6454, 805]	7440	[7822, 514]
1297	[2239, 2240]	3345	[4718, 1917]	5393	[6455, 4246]	7441	[7823, 4253]
1298	[2241, 2242]	3346	[4719, 1648]	5394	[5216, 617]	7442	[4806, 6608]
1299	[2243, 822]	3347	[1840, 4720]	5395	[5107, 6456]	7443	[7824, 7697]
1300	[2244, 538]	3348	[4721, 4722]	5396	[6457, 4543]	7444	[4480, 4891]
1301	[2245, 2246]	3349	[4723, 4724]	5397	[170, 6458]	7445	[4765, 4573]
1302	[2247, 2248]	3350	[4725, 2320]	5398	[179, 2036]	7446	[5187, 1957]
1303	[2249, 1847]	3351	[4726, 2656]	5399	[2146, 6459]	7447	[7825, 7122]
1304	[239, 1850]	3352	[4727, 831]	5400	[6460, 592]	7448	[4848, 4831]
1305	[2250, 1854]	3353	[4728, 4729]	5401	[4720, 4484]	7449	[4266, 6506]
1306	[2251, 1856]	3354	[4730, 2109]	5402	[6461, 837]	7450	[7826, 7788]
1307	[2252, 1736]	3355	[2486, 4212]	5403	[6462, 2184]	7451	[5100, 169]
1308	[2253, 228]	3356	[1684, 4731]	5404	[6463, 2001]	7452	[7827, 2142]
1309	[2254, 2255]	3357	[4732, 552]	5405	[4102, 5294]	7453	[7828, 4813]
1310	[2256, 2018]	3358	[4733, 4734]	5406	[2124, 1813]	7454	[7829, 4760]
1311	[2257, 2258]	3359	[1697, 4735]	5407	[6464, 5227]	7455	[6489, 2333]
1312	[2259, 2035]	3360	[4736, 2140]	5408	[1956, 868]	7456	[7830, 5256]
1313	[2260, 2261]	3361	[2449, 1796]	5409	[6465, 6466]	7457	[7831, 4748]
1314	[2262, 1759]	3362	[4737, 4403]	5410	[6467, 2607]	7458	[1722, 641]
1315	[2263, 1727]	3363	[4738, 168]	5411	[6468, 6456]	7459	[7832, 4316]
1316	[2264, 2265]	3364	[2321, 4683]	5412	[590, 655]	7460	[7833, 4790]
1317	[2266, 824]	3365	[674, 34]	5413	[4152, 4759]	7461	[7834, 5189]
1318	[2267, 2268]	3366	[2092, 790]	5414	[6469, 6470]	7462	[7835, 2568]
1319	[2269, 2270]	3367	[2317, 2492]	5415	[6471, 193]	7463	[7836, 7713]
1320	[2271, 2272]	3368	[857, 4412]	5416	[6472, 6473]	7464	[7837, 204]
1321	[2083, 1770]	3369	[4739, 4053]	5417	[6474, 4218]	7465	[7838, 6550]
1322	[2273, 2274]	3370	[4740, 2550]	5418	[6475, 1810]	7466	[2454, 5187]
1323	[2275, 632]	3371	[4741, 1798]	5419	[6476, 6477]	7467	[2438, 2258]
1324	[663, 623]	3372	[4742, 4313]	5420	[6478, 4780]	7468	[7839, 5243]
1325	[2276, 2277]	3373	[4743, 4744]	5421	[6479, 6480]	7469	[7840, 6508]
1326	[2278, 2279]	3374	[4745, 768]	5422	[6481, 2297]	7470	[7841, 4101]
1327	[2280, 235]	3375	[4391, 816]	5423	[6482, 4761]	7471	[6831, 7842]
1328	[2281, 2067]	3376	[4746, 4747]	5424	[6483, 809]	7472	[2042, 7843]
1329	[2282, 2283]	3377	[4748, 2553]	5425	[2695, 4358]	7473	[5194, 4452]
1330	[2284, 646]	3378	[4749, 4093]	5426	[6484, 2325]	7474	[7844, 6772]
1331	[2285, 2286]	3379	[1808, 4096]	5427	[6485, 700]	7475	[4054, 6412]
1332	[2287, 2288]	3380	[4750, 2626]	5428	[6486, 1930]	7476	[7845, 4205]
1333	[2289, 2290]	3381	[4751, 1880]	5429	[6487, 4315]	7477	[7846, 6667]
1334	[2291, 1888]	3382	[868, 683]	5430	[6488, 6489]	7478	[7847, 2321]
1335	[2292, 2293]	3383	[4752, 2127]	5431	[6490, 649]	7479	[1853, 1700]
1336	[52, 2294]	3384	[4753, 2178]	5432	[6491, 684]	7480	[1943, 4089]

1337	[2295, 1977]	3385	[4308, 4754]	5433	[6492, 4620]	7481	[7848, 2399]
1338	[2296, 2297]	3386	[4755, 231]	5434	[6493, 4934]	7482	[7849, 6806]
1339	[175, 2033]	3387	[4756, 2677]	5435	[600, 6494]	7483	[7850, 4193]
1340	[2298, 243]	3388	[4757, 156]	5436	[6495, 5075]	7484	[7851, 4638]
1341	[2299, 14]	3389	[4758, 4759]	5437	[6496, 4274]	7485	[2415, 6756]
1342	[2128, 2300]	3390	[778, 585]	5438	[6497, 6498]	7486	[2136, 1666]
1343	[2274, 2301]	3391	[4760, 2440]	5439	[133, 4282]	7487	[4716, 4369]
1344	[2302, 2303]	3392	[4761, 4619]	5440	[6499, 2098]	7488	[7852, 2212]
1345	[2304, 2305]	3393	[4762, 2226]	5441	[6500, 2484]	7489	[6757, 4652]
1346	[2306, 2307]	3394	[4763, 4436]	5442	[6501, 4882]	7490	[2202, 4191]
1347	[2308, 2309]	3395	[4764, 4461]	5443	[6502, 1890]	7491	[7853, 486]
1348	[2310, 804]	3396	[889, 4765]	5444	[6503, 6504]	7492	[7854, 4561]
1349	[2311, 2312]	3397	[4766, 2362]	5445	[6505, 1790]	7493	[7855, 4966]
1350	[2313, 2305]	3398	[4767, 1840]	5446	[6506, 4123]	7494	[4921, 4678]
1351	[2314, 2315]	3399	[4768, 4721]	5447	[4607, 4518]	7495	[7856, 798]
1352	[2316, 2317]	3400	[4769, 4770]	5448	[6507, 4252]	7496	[836, 4525]
1353	[2318, 2319]	3401	[4771, 4772]	5449	[6508, 5272]	7497	[2058, 6457]
1354	[2320, 2321]	3402	[4773, 1830]	5450	[6509, 1801]	7498	[7857, 4656]
1355	[2322, 587]	3403	[4774, 38]	5451	[1844, 4867]	7499	[790, 4743]
1356	[2323, 2324]	3404	[4775, 546]	5452	[6510, 6413]	7500	[4893, 4584]
1357	[2325, 765]	3405	[2086, 2127]	5453	[6511, 2505]	7501	[7858, 5044]
1358	[481, 2326]	3406	[4776, 1782]	5454	[544, 571]	7502	[2617, 2175]
1359	[2327, 2328]	3407	[1736, 4777]	5455	[6512, 739]	7503	[2526, 636]
1360	[2329, 1926]	3408	[4778, 4779]	5456	[6513, 497]	7504	[7859, 4830]
1361	[1709, 612]	3409	[1791, 541]	5457	[6514, 4868]	7505	[7046, 1971]
1362	[2330, 2331]	3410	[4780, 2551]	5458	[206, 510]	7506	[7860, 4220]
1363	[2332, 2333]	3411	[4781, 4557]	5459	[1946, 1722]	7507	[4208, 2244]
1364	[2334, 2222]	3412	[4782, 4783]	5460	[6515, 5096]	7508	[2118, 4140]
1365	[2335, 2336]	3413	[4784, 4785]	5461	[6516, 186]	7509	[2168, 2583]
1366	[2222, 2337]	3414	[4786, 807]	5462	[6517, 2275]	7510	[7861, 158]
1367	[2338, 1822]	3415	[4787, 511]	5463	[6518, 2549]	7511	[7862, 4056]
1368	[2339, 1995]	3416	[4788, 2464]	5464	[6519, 4648]	7512	[2048, 4633]
1369	[2340, 2341]	3417	[4789, 639]	5465	[626, 6520]	7513	[7863, 4906]
1370	[2342, 523]	3418	[4790, 4791]	5466	[6521, 4223]	7514	[153, 7753]
1371	[2343, 2344]	3419	[4792, 563]	5467	[4588, 6522]	7515	[7864, 2444]
1372	[2345, 1829]	3420	[4793, 4640]	5468	[4681, 6523]	7516	[2420, 4066]
1373	[2346, 2119]	3421	[4794, 2452]	5469	[6524, 6525]	7517	[5075, 6794]
1374	[2347, 518]	3422	[2410, 1769]	5470	[6526, 6527]	7518	[159, 4925]
1375	[2348, 2349]	3423	[4795, 4407]	5471	[6528, 6529]	7519	[6688, 2409]
1376	[2350, 2351]	3424	[4796, 561]	5472	[6530, 2610]	7520	[1891, 7865]
1377	[2352, 2353]	3425	[4797, 4779]	5473	[4639, 4223]	7521	[7866, 6649]
1378	[2354, 2355]	3426	[4798, 4127]	5474	[6531, 4635]	7522	[4436, 5035]
1379	[2356, 2357]	3427	[4047, 4799]	5475	[2559, 798]	7523	[7867, 6427]
1380	[2358, 2359]	3428	[1658, 4315]	5476	[4322, 4359]	7524	[7868, 5141]

1381	[2360, 2361]	3429	[4800, 2330]	5477	[6532, 516]	7525	[4191, 6724]
1382	[1998, 2362]	3430	[4801, 1863]	5478	[6533, 4184]	7526	[4592, 862]
1383	[2363, 192]	3431	[1920, 791]	5479	[2246, 4370]	7527	[7869, 6429]
1384	[1932, 639]	3432	[4802, 4803]	5480	[6534, 4856]	7528	[5087, 2198]
1385	[2364, 2365]	3433	[4804, 4125]	5481	[6535, 6536]	7529	[7753, 2062]
1386	[2366, 2367]	3434	[4805, 1779]	5482	[6537, 854]	7530	[2697, 6907]
1387	[2368, 2369]	3435	[2305, 4562]	5483	[4302, 5041]	7531	[4722, 5066]
1388	[1846, 2370]	3436	[4138, 2562]	5484	[6538, 4840]	7532	[7870, 5094]
1389	[2371, 671]	3437	[4087, 638]	5485	[4452, 5023]	7533	[4498, 4570]
1390	[2115, 2372]	3438	[1849, 4806]	5486	[6539, 4716]	7534	[7871, 1719]
1391	[2373, 2374]	3439	[4807, 2067]	5487	[6540, 4994]	7535	[2204, 2212]
1392	[2375, 2376]	3440	[4808, 4366]	5488	[4482, 4977]	7536	[7872, 6552]
1393	[2377, 2378]	3441	[4809, 622]	5489	[6541, 6542]	7537	[7873, 4210]
1394	[2379, 2380]	3442	[4810, 509]	5490	[5169, 1631]	7538	[7874, 7169]
1395	[2381, 2382]	3443	[4811, 2466]	5491	[6543, 4705]	7539	[2029, 2541]
1396	[2383, 2384]	3444	[4166, 4316]	5492	[6544, 4832]	7540	[7875, 5170]
1397	[2385, 45]	3445	[4812, 4811]	5493	[4564, 6545]	7541	[7876, 4951]
1398	[2386, 2387]	3446	[4813, 2071]	5494	[6546, 6547]	7542	[4713, 4667]
1399	[2388, 2389]	3447	[898, 1962]	5495	[6548, 6526]	7543	[4512, 4381]
1400	[2390, 2391]	3448	[4814, 2398]	5496	[5043, 6549]	7544	[4698, 653]
1401	[2392, 2393]	3449	[4815, 4816]	5497	[6550, 2136]	7545	[7877, 2171]
1402	[2394, 2395]	3450	[4817, 4688]	5498	[6551, 1809]	7546	[7878, 583]
1403	[2396, 877]	3451	[4818, 4819]	5499	[4250, 4768]	7547	[7879, 549]
1404	[2397, 2221]	3452	[4820, 4821]	5500	[6552, 4423]	7548	[7880, 4474]
1405	[2370, 556]	3453	[4822, 2174]	5501	[6553, 698]	7549	[7881, 7842]
1406	[2398, 2399]	3454	[4823, 4824]	5502	[6554, 700]	7550	[7142, 589]
1407	[2400, 1674]	3455	[4825, 4819]	5503	[6555, 787]	7551	[7882, 7018]
1408	[2401, 2402]	3456	[189, 4826]	5504	[2624, 865]	7552	[2660, 4656]
1409	[2403, 2404]	3457	[197, 4440]	5505	[864, 4073]	7553	[7883, 5216]
1410	[2405, 2406]	3458	[4827, 1906]	5506	[2376, 528]	7554	[7884, 2244]
1411	[2407, 2408]	3459	[4828, 2181]	5507	[6556, 4175]	7555	[1817, 4956]
1412	[2409, 2410]	3460	[4829, 1770]	5508	[5143, 6557]	7556	[7798, 2693]
1413	[2411, 1819]	3461	[517, 1681]	5509	[6558, 6527]	7557	[2656, 5115]
1414	[527, 1703]	3462	[1663, 4830]	5510	[5102, 4218]	7558	[7885, 6481]
1415	[2412, 2413]	3463	[4831, 4832]	5511	[6559, 6560]	7559	[7886, 4614]
1416	[2414, 2415]	3464	[4833, 2269]	5512	[6561, 229]	7560	[4898, 1766]
1417	[2416, 37]	3465	[4834, 1920]	5513	[6562, 1867]	7561	[7887, 1723]
1418	[2417, 2373]	3466	[4835, 485]	5514	[6563, 2100]	7562	[7010, 6996]
1419	[2418, 565]	3467	[4836, 4837]	5515	[6564, 2166]	7563	[1744, 1792]
1420	[2419, 2420]	3468	[4838, 4839]	5516	[6565, 1944]	7564	[7888, 4719]
1421	[2421, 525]	3469	[4840, 1899]	5517	[6566, 2511]	7565	[4141, 6566]
1422	[2422, 2050]	3470	[701, 4399]	5518	[56, 2411]	7566	[7889, 1976]
1423	[2423, 2029]	3471	[4841, 1907]	5519	[6567, 6568]	7567	[4288, 4497]
1424	[2424, 170]	3472	[4454, 4303]	5520	[6569, 1735]	7568	[7890, 1794]

1425	[2425, 43]	3473	[2344, 2099]	5521	[6570, 2126]	7569	[2372, 6643]
1426	[2426, 1738]	3474	[4842, 2644]	5522	[6571, 6489]	7570	[7891, 6820]
1427	[2427, 2428]	3475	[4173, 2435]	5523	[6572, 2086]	7571	[6536, 4529]
1428	[2429, 2430]	3476	[2564, 2191]	5524	[5272, 4171]	7572	[7892, 6669]
1429	[2431, 643]	3477	[4843, 4428]	5525	[6573, 6574]	7573	[6443, 5022]
1430	[2126, 1951]	3478	[4844, 2152]	5526	[6575, 5330]	7574	[7893, 2508]
1431	[2432, 2433]	3479	[151, 4165]	5527	[6576, 6577]	7575	[7894, 2483]
1432	[2434, 624]	3480	[4845, 4342]	5528	[6578, 6579]	7576	[5335, 800]
1433	[2435, 2436]	3481	[4846, 2541]	5529	[6580, 2423]	7577	[1763, 4869]
1434	[2437, 2438]	3482	[4847, 1866]	5530	[4325, 6581]	7578	[7895, 7865]
1435	[2439, 2440]	3483	[620, 4848]	5531	[4997, 4677]	7579	[1964, 4815]
1436	[2233, 2441]	3484	[4849, 2057]	5532	[6582, 4173]	7580	[7896, 863]
1437	[2442, 2443]	3485	[4850, 52]	5533	[6583, 6584]	7581	[4229, 5209]
1438	[2444, 2445]	3486	[4851, 1969]	5534	[2621, 739]	7582	[4419, 2459]
1439	[2446, 2447]	3487	[622, 1800]	5535	[6585, 4637]	7583	[1661, 2623]
1440	[2448, 2449]	3488	[4852, 829]	5536	[6586, 6587]	7584	[2566, 7083]
1441	[2450, 2451]	3489	[4853, 2114]	5537	[4144, 5308]	7585	[584, 5309]
1442	[495, 897]	3490	[4854, 2206]	5538	[6588, 6589]	7586	[6654, 4040]
1443	[499, 2452]	3491	[4855, 4615]	5539	[6590, 2299]	7587	[4100, 499]
1444	[2453, 2454]	3492	[4856, 4857]	5540	[6591, 6592]	7588	[7897, 7689]
1445	[2455, 2456]	3493	[4858, 2539]	5541	[6593, 5306]	7589	[7898, 2488]
1446	[2457, 2458]	3494	[2166, 1634]	5542	[6594, 2022]	7590	[7899, 7104]
1447	[2459, 2460]	3495	[4859, 1784]	5543	[6595, 4484]	7591	[7900, 4500]
1448	[2461, 2462]	3496	[4860, 4861]	5544	[6596, 1892]	7592	[7901, 641]
1449	[2463, 2464]	3497	[4862, 4863]	5545	[6597, 5124]	7593	[1795, 2469]
1450	[2465, 2153]	3498	[4864, 1925]	5546	[1948, 4168]	7594	[6612, 854]
1451	[2466, 2467]	3499	[4865, 2073]	5547	[4354, 4814]	7595	[4274, 7010]
1452	[2468, 2469]	3500	[4700, 2566]	5548	[5022, 1715]	7596	[1939, 4177]
1453	[691, 2470]	3501	[4866, 4208]	5549	[6598, 2211]	7597	[7902, 6702]
1454	[2471, 2472]	3502	[4506, 2140]	5550	[6599, 6600]	7598	[7903, 6563]
1455	[1627, 2473]	3503	[4867, 2494]	5551	[5067, 6601]	7599	[7904, 5115]
1456	[2474, 566]	3504	[2378, 4868]	5552	[6602, 4690]	7600	[900, 6819]
1457	[2475, 2476]	3505	[4869, 4334]	5553	[6603, 4102]	7601	[7905, 7154]
1458	[2477, 629]	3506	[4870, 4871]	5554	[4255, 5265]	7602	[7906, 1805]
1459	[2478, 2479]	3507	[1757, 4872]	5555	[6453, 4839]	7603	[7907, 5082]
1460	[2480, 2481]	3508	[4873, 2487]	5556	[6604, 2000]	7604	[7908, 2374]
1461	[129, 2389]	3509	[4874, 4598]	5557	[6605, 6606]	7605	[7909, 2377]
1462	[582, 2482]	3510	[4875, 2268]	5558	[6607, 5126]	7606	[7910, 4739]
1463	[2483, 2484]	3511	[4876, 4877]	5559	[6608, 5242]	7607	[7911, 1738]
1464	[2485, 2486]	3512	[4878, 1636]	5560	[6609, 1977]	7608	[7912, 6417]
1465	[216, 2487]	3513	[4879, 4405]	5561	[6610, 1999]	7609	[7913, 6819]
1466	[2488, 2489]	3514	[4880, 2311]	5562	[2666, 4665]	7610	[6925, 1705]
1467	[2490, 1908]	3515	[598, 242]	5563	[750, 6611]	7611	[828, 2379]
1468	[2491, 2492]	3516	[4650, 4881]	5564	[4209, 6484]	7612	[2004, 2568]

1469	[2493, 2494]	3517	[4421, 1998]	5565	[734, 6612]	7613	[7914, 6477]
1470	[2495, 2496]	3518	[762, 2293]	5566	[2436, 1892]	7614	[7143, 4222]
1471	[2497, 2498]	3519	[4882, 4883]	5567	[4581, 2458]	7615	[7124, 764]
1472	[2216, 2499]	3520	[1905, 4301]	5568	[6613, 4777]	7616	[7915, 4456]
1473	[2277, 2500]	3521	[4884, 2370]	5569	[6614, 2616]	7617	[7916, 6671]
1474	[2501, 1653]	3522	[4885, 2007]	5570	[6615, 1908]	7618	[2489, 4920]
1475	[2502, 521]	3523	[4886, 4531]	5571	[6616, 4094]	7619	[2544, 4265]
1476	[2503, 2504]	3524	[4887, 584]	5572	[2143, 4425]	7620	[7917, 5144]
1477	[2505, 2506]	3525	[4888, 792]	5573	[6617, 865]	7621	[4799, 4622]
1478	[2507, 1857]	3526	[4889, 4110]	5574	[6618, 2694]	7622	[4434, 4861]
1479	[2508, 2509]	3527	[4890, 4891]	5575	[6619, 2470]	7623	[5002, 6645]
1480	[2510, 2511]	3528	[4892, 2158]	5576	[6620, 1897]	7624	[7918, 5287]
1481	[2512, 1821]	3529	[503, 4893]	5577	[4986, 4557]	7625	[7919, 6752]
1482	[816, 2513]	3530	[4894, 804]	5578	[6621, 5261]	7626	[6760, 4253]
1483	[2514, 1937]	3531	[1880, 1804]	5579	[6622, 5233]	7627	[7920, 4066]
1484	[2515, 665]	3532	[4895, 4896]	5580	[6623, 2448]	7628	[7921, 2403]
1485	[1632, 2516]	3533	[4897, 4898]	5581	[6624, 6625]	7629	[2235, 4448]
1486	[2517, 2518]	3534	[4899, 4900]	5582	[4883, 4687]	7630	[491, 6476]
1487	[2519, 2520]	3535	[4901, 4121]	5583	[6626, 901]	7631	[4972, 6577]
1488	[2521, 819]	3536	[4902, 539]	5584	[6627, 4522]	7632	[7922, 5167]
1489	[2522, 2523]	3537	[2511, 1890]	5585	[6628, 559]	7633	[7923, 4929]
1490	[2524, 1669]	3538	[4903, 2462]	5586	[4476, 1693]	7634	[7924, 1739]
1491	[2525, 2526]	3539	[4904, 4346]	5587	[745, 5008]	7635	[6504, 1838]
1492	[2527, 2528]	3540	[4905, 527]	5588	[6629, 4328]	7636	[235, 7169]
1493	[2529, 2530]	3541	[628, 4598]	5589	[6630, 859]	7637	[7925, 4857]
1494	[2531, 1632]	3542	[4906, 843]	5590	[6631, 875]	7638	[4158, 6498]
1495	[2532, 2533]	3543	[233, 2194]	5591	[6632, 4308]	7639	[1859, 4991]
1496	[2534, 1701]	3544	[4907, 4354]	5592	[6633, 2521]	7640	[1897, 4501]
1497	[2535, 2536]	3545	[2261, 223]	5593	[6634, 4150]	7641	[6724, 7124]
1498	[2537, 2538]	3546	[4908, 4453]	5594	[6635, 4225]	7642	[2578, 4903]
1499	[2539, 2261]	3547	[4909, 744]	5595	[2413, 5164]	7643	[7926, 5129]
1500	[2540, 1820]	3548	[4910, 4700]	5596	[6636, 6637]	7644	[7927, 7928]
1501	[2541, 1879]	3549	[4911, 4912]	5597	[4468, 4342]	7645	[2177, 4444]
1502	[2542, 745]	3550	[4913, 2287]	5598	[4643, 1845]	7646	[7929, 4604]
1503	[2543, 2544]	3551	[881, 2289]	5599	[6638, 2082]	7647	[7930, 1873]
1504	[632, 2545]	3552	[4914, 4750]	5600	[4067, 6536]	7648	[7931, 4312]
1505	[2546, 2207]	3553	[4915, 245]	5601	[6639, 6640]	7649	[2015, 6834]
1506	[2547, 2548]	3554	[4916, 742]	5602	[6641, 4527]	7650	[4344, 4564]
1507	[2549, 2550]	3555	[4917, 4429]	5603	[6642, 4233]	7651	[7932, 2112]
1508	[2551, 2552]	3556	[4918, 838]	5604	[6643, 1833]	7652	[7933, 1963]
1509	[2553, 2299]	3557	[4919, 680]	5605	[6644, 778]	7653	[2240, 4339]
1510	[2554, 2338]	3558	[4785, 2376]	5606	[6645, 6488]	7654	[809, 4365]
1511	[2555, 226]	3559	[4920, 2471]	5607	[2290, 633]	7655	[7934, 7935]
1512	[2556, 2406]	3560	[2034, 2256]	5608	[6646, 6647]	7656	[7788, 2264]

1513	[2557, 2533]	3561	[1815, 4921]	5609	[891, 744]	7657	[7936, 7111]
1514	[2558, 32]	3562	[855, 667]	5610	[6648, 2482]	7658	[7760, 4833]
1515	[155, 2559]	3563	[4922, 4040]	5611	[6649, 596]	7659	[7937, 4165]
1516	[2560, 729]	3564	[4923, 2188]	5612	[6650, 4161]	7660	[2052, 4702]
1517	[1992, 857]	3565	[4924, 4646]	5613	[6651, 4207]	7661	[2473, 4643]
1518	[2561, 2562]	3566	[2469, 824]	5614	[6652, 1724]	7662	[2516, 4396]
1519	[2563, 2564]	3567	[4925, 2045]	5615	[6653, 2471]	7663	[894, 4105]
1520	[2565, 2566]	3568	[4926, 1878]	5616	[2027, 6654]	7664	[7938, 2047]
1521	[2567, 2496]	3569	[4927, 4215]	5617	[4071, 603]	7665	[4394, 7058]
1522	[2568, 2569]	3570	[4928, 4807]	5618	[801, 2601]	7666	[7939, 6891]
1523	[2570, 2571]	3571	[4366, 1661]	5619	[4615, 1775]	7667	[596, 4137]
1524	[2572, 2152]	3572	[4929, 2234]	5620	[1984, 2238]	7668	[7940, 2407]
1525	[2441, 2573]	3573	[4648, 1708]	5621	[2324, 4531]	7669	[4085, 2125]
1526	[2574, 2575]	3574	[4930, 4875]	5622	[6655, 1786]	7670	[7941, 4743]
1527	[2293, 2349]	3575	[4931, 4932]	5623	[1793, 5276]	7671	[7942, 5192]
1528	[2576, 574]	3576	[4933, 2350]	5624	[6656, 834]	7672	[7943, 6488]
1529	[2577, 1667]	3577	[4934, 4790]	5625	[848, 6657]	7673	[4560, 4534]
1530	[2194, 2578]	3578	[4935, 2655]	5626	[6658, 6659]	7674	[7944, 4997]
1531	[2579, 2580]	3579	[4936, 4937]	5627	[243, 2527]	7675	[4819, 7697]
1532	[2581, 1922]	3580	[4938, 1639]	5628	[1901, 6420]	7676	[7945, 769]
1533	[2582, 2583]	3581	[4861, 4478]	5629	[6660, 4978]	7677	[195, 7935]
1534	[2584, 1654]	3582	[4939, 2528]	5630	[6661, 4663]	7678	[7946, 4991]
1535	[2585, 2174]	3583	[4940, 4204]	5631	[6662, 2552]	7679	[7947, 6708]
1536	[2586, 2587]	3584	[4941, 2589]	5632	[2326, 4760]	7680	[7948, 4764]
1537	[2297, 2588]	3585	[4942, 4373]	5633	[6663, 6632]	7681	[7949, 2495]
1538	[2589, 670]	3586	[4943, 4283]	5634	[4473, 1653]	7682	[2682, 2676]
1539	[2590, 246]	3587	[4944, 4945]	5635	[638, 2272]	7683	[7950, 4641]
1540	[2591, 1856]	3588	[4946, 60]	5636	[6664, 4528]	7684	[7018, 5057]
1541	[2592, 2593]	3589	[4947, 1766]	5637	[2462, 194]	7685	[2707, 3731]
1542	[143, 2594]	3590	[4948, 693]	5638	[6665, 1672]	7686	[7951, 459]
1543	[2595, 2530]	3591	[4949, 640]	5639	[6666, 825]	7687	[7952, 4036]
1544	[2596, 2597]	3592	[4731, 4950]	5640	[4978, 5313]	7688	[7953, 997]
1545	[2598, 629]	3593	[4951, 2112]	5641	[1960, 2245]	7689	[7954, 3525]
1546	[2599, 2523]	3594	[4049, 2226]	5642	[608, 6667]	7690	[5421, 6104]
1547	[2600, 2601]	3595	[2301, 2597]	5643	[4057, 6668]	7691	[363, 3934]
1548	[2602, 1735]	3596	[4952, 2173]	5644	[6669, 2262]	7692	[377, 2852]
1549	[2603, 2604]	3597	[4953, 2023]	5645	[4461, 5029]	7693	[5695, 1536]
1550	[2605, 1891]	3598	[850, 178]	5646	[6670, 227]	7694	[7955, 2855]
1551	[2606, 1831]	3599	[4954, 2544]	5647	[6671, 139]	7695	[7956, 2864]
1552	[2593, 2607]	3600	[4955, 223]	5648	[6672, 6673]	7696	[2905, 2709]
1553	[487, 43]	3601	[4956, 2340]	5649	[6674, 1927]	7697	[7957, 341]
1554	[2608, 2604]	3602	[4957, 4958]	5650	[6675, 4610]	7698	[7958, 4026]
1555	[2609, 2610]	3603	[4959, 851]	5651	[6676, 2310]	7699	[5707, 3180]
1556	[688, 2611]	3604	[4960, 4961]	5652	[6677, 6678]	7700	[7959, 7303]

1557	[2612, 2074]	3605	[2395, 4476]	5653	[6679, 2075]	7701	[7960, 3549]
1558	[2613, 2614]	3606	[4962, 4963]	5654	[6680, 1938]	7702	[7961, 5816]
1559	[2615, 2015]	3607	[4964, 4965]	5655	[1802, 4150]	7703	[5735, 3867]
1560	[2616, 2617]	3608	[4966, 4482]	5656	[6681, 5294]	7704	[7962, 1045]
1561	[2618, 2474]	3609	[191, 4285]	5657	[6682, 1699]	7705	[7963, 5588]
1562	[2619, 2044]	3610	[4759, 4632]	5658	[6498, 2132]	7706	[469, 1161]
1563	[2620, 2621]	3611	[4967, 1662]	5659	[141, 5077]	7707	[7964, 1120]
1564	[2622, 634]	3612	[4968, 4496]	5660	[6683, 481]	7708	[7965, 461]
1565	[2623, 2624]	3613	[4231, 207]	5661	[6684, 6615]	7709	[3645, 930]
1566	[2625, 1711]	3614	[2217, 4070]	5662	[6685, 6686]	7710	[3747, 3702]
1567	[2626, 2423]	3615	[4969, 2235]	5663	[6687, 5313]	7711	[6080, 1199]
1568	[2627, 2628]	3616	[2391, 1882]	5664	[2107, 504]	7712	[3805, 5507]
1569	[2341, 1801]	3617	[618, 4970]	5665	[4128, 733]	7713	[7966, 2839]
1570	[811, 2025]	3618	[4971, 4972]	5666	[1643, 6688]	7714	[6159, 3118]
1571	[2629, 2630]	3619	[4973, 4595]	5667	[6689, 2196]	7715	[6222, 5353]
1572	[2631, 819]	3620	[4974, 2246]	5668	[1973, 4842]	7716	[7967, 3651]
1573	[2632, 2070]	3621	[4975, 4293]	5669	[6690, 791]	7717	[7968, 358]
1574	[2633, 2634]	3622	[4976, 825]	5670	[6691, 4070]	7718	[5814, 1389]
1575	[2635, 2636]	3623	[4977, 4978]	5671	[6692, 2282]	7719	[7969, 3959]
1576	[2637, 810]	3624	[4448, 4972]	5672	[6693, 4668]	7720	[263, 1269]
1577	[2638, 669]	3625	[4979, 4980]	5673	[507, 1909]	7721	[7970, 3276]
1578	[2639, 2116]	3626	[4981, 4336]	5674	[6694, 1912]	7722	[7971, 1037]
1579	[2294, 1902]	3627	[4982, 811]	5675	[4599, 886]	7723	[7972, 3449]
1580	[2640, 2641]	3628	[220, 4081]	5676	[5340, 2177]	7724	[3904, 1252]
1581	[2642, 2643]	3629	[4983, 4984]	5677	[6695, 687]	7725	[7973, 3935]
1582	[2032, 698]	3630	[4119, 4985]	5678	[6696, 5335]	7726	[5459, 2738]
1583	[2333, 2287]	3631	[183, 4986]	5679	[2225, 1976]	7727	[6039, 5639]
1584	[2644, 2369]	3632	[4987, 2682]	5680	[6697, 4172]	7728	[4019, 3358]
1585	[2645, 2118]	3633	[4044, 2529]	5681	[6698, 47]	7729	[7974, 3387]
1586	[2646, 2647]	3634	[4988, 4166]	5682	[6699, 4367]	7730	[3446, 1173]
1587	[2648, 1887]	3635	[4989, 1773]	5683	[1713, 861]	7731	[3995, 392]
1588	[2113, 610]	3636	[1750, 4192]	5684	[6700, 6701]	7732	[3253, 3037]
1589	[2649, 2473]	3637	[4990, 4097]	5685	[4097, 1896]	7733	[3046, 2730]
1590	[2650, 2651]	3638	[4991, 4773]	5686	[6702, 4333]	7734	[7975, 1061]
1591	[229, 2320]	3639	[4992, 2569]	5687	[6703, 146]	7735	[7976, 304]
1592	[743, 732]	3640	[4993, 2514]	5688	[6704, 2295]	7736	[6371, 2867]
1593	[2652, 2653]	3641	[4994, 4500]	5689	[1, 678]	7737	[3807, 4001]
1594	[2654, 2655]	3642	[4995, 4483]	5690	[4826, 662]	7738	[1141, 3796]
1595	[172, 2656]	3643	[4832, 1915]	5691	[709, 5330]	7739	[7977, 1366]
1596	[2657, 1906]	3644	[4996, 4351]	5692	[2389, 5198]	7740	[7978, 1358]
1597	[748, 2658]	3645	[4565, 2274]	5693	[693, 2405]	7741	[7979, 441]
1598	[2659, 2660]	3646	[1915, 2651]	5694	[6705, 4164]	7742	[3562, 5410]
1599	[2661, 2662]	3647	[820, 4997]	5695	[6706, 630]	7743	[1499, 3544]
1600	[2663, 2587]	3648	[4998, 237]	5696	[6707, 4791]	7744	[5567, 5672]

1601	[2336, 2664]	3649	[4999, 4616]	5697	[2655, 2602]	7745	[2990, 1263]
1602	[2665, 2666]	3650	[5000, 2466]	5698	[2307, 4911]	7746	[373, 2885]
1603	[2667, 2121]	3651	[803, 4783]	5699	[2046, 6708]	7747	[7980, 3204]
1604	[2668, 2669]	3652	[5001, 5002]	5700	[6709, 4842]	7748	[7981, 98]
1605	[2670, 2549]	3653	[5003, 5004]	5701	[5068, 1672]	7749	[1432, 1044]
1606	[2671, 173]	3654	[5005, 4425]	5702	[2492, 45]	7750	[7982, 3348]
1607	[2672, 2673]	3655	[127, 216]	5703	[6710, 2039]	7751	[2976, 5515]
1608	[147, 2674]	3656	[5006, 4351]	5704	[6711, 2203]	7752	[1534, 3090]
1609	[2675, 2345]	3657	[5007, 5008]	5705	[736, 628]	7753	[7983, 3795]
1610	[610, 2117]	3658	[5009, 4775]	5706	[6712, 4100]	7754	[6269, 6059]
1611	[2676, 2306]	3659	[5010, 5011]	5707	[6713, 2351]	7755	[6272, 2988]
1612	[2677, 2678]	3660	[4489, 750]	5708	[2610, 4233]	7756	[7984, 83]
1613	[2679, 2680]	3661	[5012, 4421]	5709	[6714, 711]	7757	[7985, 5388]
1614	[2681, 2094]	3662	[5013, 2393]	5710	[6459, 2353]	7758	[3620, 3547]
1615	[2382, 513]	3663	[1652, 2173]	5711	[6715, 847]	7759	[5617, 3088]
1616	[1705, 2682]	3664	[5014, 5015]	5712	[797, 6594]	7760	[7986, 2785]
1617	[2683, 2684]	3665	[5016, 5017]	5713	[6427, 6716]	7761	[2805, 5654]
1618	[2685, 2686]	3666	[5018, 2300]	5714	[844, 6717]	7762	[3928, 3199]
1619	[2687, 2688]	3667	[5019, 4255]	5715	[6718, 572]	7763	[7987, 3061]
1620	[2689, 2203]	3668	[5020, 2120]	5716	[6719, 5038]	7764	[3482, 6180]
1621	[2690, 781]	3669	[4401, 572]	5717	[6720, 6631]	7765	[7988, 6258]
1622	[2691, 2692]	3670	[5021, 5022]	5718	[6721, 715]	7766	[2705, 6355]
1623	[2693, 2384]	3671	[5023, 2311]	5719	[6722, 4633]	7767	[7989, 977]
1624	[2694, 2695]	3672	[5024, 2313]	5720	[6723, 6724]	7768	[7990, 1190]
1625	[2696, 2697]	3673	[5025, 5026]	5721	[781, 5006]	7769	[18, 3945]
1626	[2698, 2699]	3674	[5027, 5028]	5722	[6725, 2430]	7770	[5492, 6194]
1627	[2700, 2701]	3675	[5029, 4207]	5723	[1638, 2585]	7771	[7991, 4020]
1628	[2702, 2703]	3676	[5017, 2170]	5724	[6726, 1762]	7772	[7992, 3422]
1629	[2704, 2705]	3677	[513, 5030]	5725	[6727, 4333]	7773	[1312, 3856]
1630	[2706, 2707]	3678	[5031, 2624]	5726	[6728, 662]	7774	[7993, 123]
1631	[2708, 2709]	3679	[4272, 753]	5727	[6729, 2068]	7775	[7994, 477]
1632	[447, 2710]	3680	[4958, 1741]	5728	[6730, 4345]	7776	[1130, 2999]
1633	[2711, 2712]	3681	[5032, 1675]	5729	[6731, 2366]	7777	[3066, 1243]
1634	[2713, 2714]	3682	[4675, 872]	5730	[6732, 695]	7778	[2896, 3845]
1635	[2715, 2716]	3683	[5033, 551]	5731	[6733, 2669]	7779	[365, 464]
1636	[2717, 2718]	3684	[5034, 4350]	5732	[2634, 6481]	7780	[3149, 1099]
1637	[1231, 2719]	3685	[5035, 2162]	5733	[6734, 1846]	7781	[6277, 5846]
1638	[1619, 2720]	3686	[594, 4792]	5734	[6547, 794]	7782	[7995, 3373]
1639	[332, 2721]	3687	[5036, 4519]	5735	[6735, 642]	7783	[1612, 5556]
1640	[2722, 2723]	3688	[4396, 2061]	5736	[6736, 6641]	7784	[2840, 1581]
1641	[2724, 2725]	3689	[5037, 4767]	5737	[6737, 4611]	7785	[7996, 3831]
1642	[2726, 2727]	3690	[5038, 5039]	5738	[6738, 4446]	7786	[7997, 3951]
1643	[2728, 2729]	3691	[4661, 4108]	5739	[5258, 5252]	7787	[5965, 3723]
1644	[2730, 2731]	3692	[5040, 4970]	5740	[4637, 148]	7788	[7998, 1171]

1645	[2732, 1576]	3693	[4871, 47]	5741	[6739, 234]	7789	[3542, 5704]
1646	[2733, 2734]	3694	[5041, 4813]	5742	[6740, 6741]	7790	[1198, 460]
1647	[2735, 2736]	3695	[5042, 743]	5743	[6742, 2459]	7791	[7999, 6222]
1648	[2737, 2738]	3696	[4932, 5043]	5744	[6743, 4302]	7792	[8000, 3255]
1649	[2739, 2740]	3697	[1699, 4269]	5745	[6744, 6745]	7793	[8001, 3431]
1650	[2741, 2742]	3698	[4465, 1784]	5746	[4301, 601]	7794	[946, 3203]
1651	[2743, 2744]	3699	[1765, 5044]	5747	[6659, 1935]	7795	[3421, 1593]
1652	[1172, 2745]	3700	[5045, 2215]	5748	[5089, 6746]	7796	[3779, 1360]
1653	[2746, 1376]	3701	[5046, 5047]	5749	[2187, 6426]	7797	[390, 4002]
1654	[2747, 2748]	3702	[5048, 2103]	5750	[6747, 191]	7798	[8002, 1146]
1655	[2749, 301]	3703	[5049, 4095]	5751	[6748, 4512]	7799	[8003, 1260]
1656	[2750, 476]	3704	[5050, 5051]	5752	[6749, 4552]	7800	[3156, 367]
1657	[2751, 2752]	3705	[5052, 1820]	5753	[6750, 4995]	7801	[2791, 3810]
1658	[2753, 2754]	3706	[5053, 4530]	5754	[6751, 6647]	7802	[5854, 5962]
1659	[2755, 349]	3707	[4519, 186]	5755	[2588, 1905]	7803	[5634, 916]
1660	[2756, 1015]	3708	[5054, 5055]	5756	[6752, 4405]	7804	[1126, 1516]
1661	[2757, 2758]	3709	[5056, 5057]	5757	[6753, 4613]	7805	[8004, 451]
1662	[1093, 2759]	3710	[4379, 711]	5758	[2229, 6669]	7806	[1613, 1068]
1663	[2760, 2761]	3711	[5058, 4463]	5759	[6754, 2167]	7807	[8005, 271]
1664	[2762, 2763]	3712	[1952, 829]	5760	[1903, 1955]	7808	[8006, 1503]
1665	[2764, 387]	3713	[5059, 4568]	5761	[6755, 4597]	7809	[8007, 3147]
1666	[2765, 2766]	3714	[2467, 2598]	5762	[1630, 4994]	7810	[8008, 5467]
1667	[1286, 2767]	3715	[2680, 659]	5763	[6756, 2413]	7811	[8009, 5408]
1668	[2768, 2769]	3716	[5060, 4459]	5764	[4985, 6757]	7812	[8010, 6232]
1669	[2770, 2771]	3717	[866, 774]	5765	[4608, 4604]	7813	[3231, 3455]
1670	[2772, 2773]	3718	[5061, 2358]	5766	[559, 5015]	7814	[5398, 6006]
1671	[2774, 2775]	3719	[5062, 4379]	5767	[2000, 4616]	7815	[3250, 1353]
1672	[2776, 2777]	3720	[4199, 4248]	5768	[6758, 2294]	7816	[6085, 6080]
1673	[2778, 395]	3721	[2651, 4511]	5769	[883, 4669]	7817	[2987, 3309]
1674	[4, 2779]	3722	[5063, 5064]	5770	[5240, 4761]	7818	[312, 110]
1675	[931, 83]	3723	[5065, 4272]	5771	[2443, 2591]	7819	[8011, 1218]
1676	[2780, 85]	3724	[5066, 5067]	5772	[6759, 6760]	7820	[8012, 3777]
1677	[2781, 323]	3725	[4164, 5068]	5773	[6761, 874]	7821	[3946, 4006]
1678	[2782, 327]	3726	[5069, 4045]	5774	[42, 6625]	7822	[8013, 972]
1679	[2783, 1103]	3727	[1741, 185]	5775	[6762, 4140]	7823	[8014, 990]
1680	[2784, 2785]	3728	[5070, 2585]	5776	[6763, 1989]	7824	[473, 1396]
1681	[2786, 2787]	3729	[5071, 2141]	5777	[534, 4094]	7825	[3314, 1078]
1682	[1484, 1092]	3730	[5072, 733]	5778	[6764, 4202]	7826	[8015, 1611]
1683	[2788, 430]	3731	[5073, 4639]	5779	[2658, 2488]	7827	[8016, 326]
1684	[2789, 1585]	3732	[5074, 4560]	5780	[6765, 4353]	7828	[8017, 3343]
1685	[2790, 2791]	3733	[1877, 4811]	5781	[6766, 2125]	7829	[1168, 5936]
1686	[2792, 2793]	3734	[4162, 5075]	5782	[2404, 1645]	7830	[2961, 1132]
1687	[2794, 2795]	3735	[5076, 4678]	5783	[6767, 5091]	7831	[1290, 2950]
1688	[2796, 2797]	3736	[5077, 2286]	5784	[40, 777]	7832	[1287, 2705]

1689	[2798, 2779]	3737	[5078, 1950]	5785	[6768, 4234]	7833	[8018, 6233]
1690	[2799, 2800]	3738	[2594, 1781]	5786	[6568, 516]	7834	[3414, 975]
1691	[2801, 2802]	3739	[5079, 2312]	5787	[4348, 4934]	7835	[314, 291]
1692	[1584, 2803]	3740	[5080, 2678]	5788	[6769, 4186]	7836	[1043, 26]
1693	[2804, 2805]	3741	[2013, 5046]	5789	[6611, 4204]	7837	[3705, 1019]
1694	[2806, 2807]	3742	[5081, 2288]	5790	[4081, 6632]	7838	[8019, 1242]
1695	[1342, 2808]	3743	[5082, 1824]	5791	[571, 4871]	7839	[8020, 1152]
1696	[1360, 2809]	3744	[162, 2628]	5792	[6770, 6601]	7840	[8021, 1594]
1697	[1174, 2810]	3745	[5083, 2011]	5793	[6771, 4694]	7841	[4009, 5400]
1698	[1108, 2736]	3746	[2050, 2555]	5794	[1674, 6453]	7842	[8022, 3522]
1699	[2811, 2812]	3747	[5084, 553]	5795	[6772, 6637]	7843	[8023, 2831]
1700	[2813, 2814]	3748	[2494, 5085]	5796	[6773, 4162]	7844	[8024, 275]
1701	[2815, 2816]	3749	[5086, 5087]	5797	[4571, 4243]	7845	[8025, 1202]
1702	[2817, 113]	3750	[5088, 5089]	5798	[2470, 6774]	7846	[8026, 3380]
1703	[992, 2818]	3751	[5090, 4197]	5799	[5282, 6775]	7847	[988, 5814]
1704	[2819, 2820]	3752	[2072, 5091]	5800	[6776, 4543]	7848	[3978, 3128]
1705	[2821, 2822]	3753	[5092, 783]	5801	[5154, 4698]	7849	[8027, 2840]
1706	[2823, 252]	3754	[2607, 1966]	5802	[6777, 6756]	7850	[8028, 2915]
1707	[2824, 441]	3755	[5093, 2275]	5803	[6778, 820]	7851	[3498, 3302]
1708	[2825, 2826]	3756	[5094, 1943]	5804	[6779, 6780]	7852	[2714, 265]
1709	[2827, 2828]	3757	[5095, 2139]	5805	[776, 4900]	7853	[2979, 920]
1710	[2829, 2830]	3758	[4551, 5096]	5806	[2550, 4099]	7854	[355, 3980]
1711	[2831, 1490]	3759	[5097, 4712]	5807	[6781, 6782]	7855	[1579, 5825]
1712	[2832, 1024]	3760	[5098, 2674]	5808	[6783, 6594]	7856	[3601, 913]
1713	[2833, 1456]	3761	[5099, 5100]	5809	[149, 4552]	7857	[6218, 6383]
1714	[2834, 2835]	3762	[5101, 5102]	5810	[6784, 2008]	7858	[8029, 3519]
1715	[2836, 2837]	3763	[5103, 4275]	5811	[6785, 5043]	7859	[5440, 5741]
1716	[2838, 73]	3764	[5104, 2435]	5812	[4542, 4299]	7860	[6197, 2739]
1717	[265, 2839]	3765	[1641, 616]	5813	[6786, 4152]	7861	[2800, 3653]
1718	[1501, 2840]	3766	[1636, 2202]	5814	[6787, 2115]	7862	[8030, 1159]
1719	[2841, 2842]	3767	[5105, 4986]	5815	[2536, 4929]	7863	[8031, 3732]
1720	[2843, 412]	3768	[5106, 5107]	5816	[6788, 6788]	7864	[8032, 457]
1721	[2844, 394]	3769	[5108, 5109]	5817	[5218, 6524]	7865	[8033, 3639]
1722	[2845, 462]	3770	[5110, 4427]	5818	[6527, 6789]	7866	[8034, 373]
1723	[2846, 1197]	3771	[5111, 1765]	5819	[6790, 6431]	7867	[8035, 3192]
1724	[2847, 2848]	3772	[5112, 4826]	5820	[665, 5093]	7868	[8036, 1090]
1725	[2849, 1570]	3773	[4103, 1888]	5821	[624, 1867]	7869	[8037, 1414]
1726	[2850, 2851]	3774	[5113, 1886]	5822	[6791, 6792]	7870	[8038, 435]
1727	[2852, 2853]	3775	[5114, 4057]	5823	[4304, 4646]	7871	[8039, 3646]
1728	[2854, 2855]	3776	[5115, 2540]	5824	[6793, 6794]	7872	[306, 3768]
1729	[2856, 2857]	3777	[5116, 2336]	5825	[6795, 157]	7873	[3626, 2766]
1730	[2858, 2859]	3778	[5117, 2626]	5826	[5188, 2483]	7874	[3507, 3144]
1731	[2860, 2861]	3779	[2309, 2042]	5827	[6796, 1737]	7875	[5810, 3640]
1732	[1615, 1188]	3780	[722, 4675]	5828	[6797, 2668]	7876	[8040, 5843]

1733	[2862, 1524]	3781	[5118, 4795]	5829	[6798, 4478]	7877	[8041, 1192]
1734	[2863, 1523]	3782	[5119, 5120]	5830	[6799, 4925]	7878	[8042, 473]
1735	[2864, 1140]	3783	[5121, 4912]	5831	[6800, 726]	7879	[8043, 1034]
1736	[2865, 2866]	3784	[5122, 5030]	5832	[6801, 4441]	7880	[8044, 3086]
1737	[2867, 401]	3785	[5123, 564]	5833	[754, 5301]	7881	[8045, 998]
1738	[2868, 2869]	3786	[2214, 5124]	5834	[1724, 4747]	7882	[8046, 3339]
1739	[2870, 2871]	3787	[5125, 2078]	5835	[523, 621]	7883	[8047, 3028]
1740	[2872, 2873]	3788	[2458, 5126]	5836	[6466, 4767]	7884	[8048, 2987]
1741	[2874, 1611]	3789	[5127, 2359]	5837	[2002, 6631]	7885	[8049, 276]
1742	[2818, 2875]	3790	[5128, 4474]	5838	[1934, 6738]	7886	[8050, 1140]
1743	[2876, 2877]	3791	[5129, 726]	5839	[6802, 873]	7887	[5613, 2847]
1744	[2878, 2879]	3792	[2499, 4898]	5840	[6803, 143]	7888	[5801, 6144]
1745	[2880, 1290]	3793	[5130, 4369]	5841	[6804, 4965]	7889	[3228, 919]
1746	[2881, 2882]	3794	[5131, 141]	5842	[6805, 2097]	7890	[4004, 3726]
1747	[2883, 2884]	3795	[5132, 2404]	5843	[2111, 155]	7891	[5672, 6175]
1748	[2885, 2886]	3796	[5133, 803]	5844	[2456, 2608]	7892	[8051, 1198]
1749	[2887, 2888]	3797	[2520, 492]	5845	[6419, 6806]	7893	[5380, 316]
1750	[2889, 1265]	3798	[5134, 2543]	5846	[6807, 6523]	7894	[8052, 5903]
1751	[2890, 1024]	3799	[5135, 880]	5847	[6808, 5292]	7895	[1066, 1121]
1752	[336, 2891]	3800	[5136, 4113]	5848	[4747, 4962]	7896	[8053, 1565]
1753	[2892, 2893]	3801	[5137, 2663]	5849	[6809, 126]	7897	[3075, 952]
1754	[2767, 2894]	3802	[5138, 1842]	5850	[5039, 4581]	7898	[8054, 3094]
1755	[2895, 2896]	3803	[5139, 5085]	5851	[6810, 4977]	7899	[3367, 5893]
1756	[1604, 2897]	3804	[5140, 5141]	5852	[6811, 5252]	7900	[8055, 3187]
1757	[2898, 2850]	3805	[5142, 5143]	5853	[6812, 4440]	7901	[3354, 1197]
1758	[2899, 365]	3806	[4226, 5144]	5854	[6813, 4368]	7902	[8056, 1433]
1759	[2900, 2901]	3807	[5145, 2392]	5855	[6814, 1734]	7903	[3143, 3705]
1760	[2902, 341]	3808	[5146, 2075]	5856	[6815, 5229]	7904	[6355, 5543]
1761	[414, 2903]	3809	[648, 2689]	5857	[6816, 1978]	7905	[3886, 3016]
1762	[2904, 2905]	3810	[5147, 2014]	5858	[6817, 4203]	7906	[2953, 1402]
1763	[2906, 2907]	3811	[5148, 4718]	5859	[6818, 6506]	7907	[3836, 3700]
1764	[2908, 2909]	3812	[5149, 4816]	5860	[6819, 6803]	7908	[8057, 408]
1765	[2910, 2911]	3813	[5150, 5151]	5861	[2380, 6820]	7909	[6161, 5872]
1766	[2912, 1351]	3814	[5152, 1876]	5862	[6821, 1793]	7910	[4001, 3039]
1767	[1117, 2913]	3815	[5153, 5154]	5863	[561, 5287]	7911	[8058, 7278]
1768	[1146, 1529]	3816	[5155, 694]	5864	[6822, 797]	7912	[1052, 5877]
1769	[1476, 2914]	3817	[794, 4438]	5865	[2587, 4312]	7913	[459, 4032]
1770	[330, 2915]	3818	[5156, 5157]	5866	[6823, 4594]	7914	[8059, 3024]
1771	[2916, 1223]	3819	[5158, 2122]	5867	[6824, 4976]	7915	[1507, 3871]
1772	[2917, 1011]	3820	[604, 4051]	5868	[6825, 2516]	7916	[1181, 274]
1773	[2918, 2919]	3821	[5159, 1833]	5869	[6826, 6717]	7917	[1512, 106]
1774	[919, 2920]	3822	[521, 5160]	5870	[2365, 2392]	7918	[5708, 1291]
1775	[2921, 1250]	3823	[4618, 2109]	5871	[4984, 6827]	7919	[8060, 2865]
1776	[2922, 2923]	3824	[5161, 4054]	5872	[6828, 2415]	7920	[3294, 467]

1777	[2924, 2925]	3825	[2498, 858]	5873	[6701, 2214]	7921	[3612, 375]
1778	[2926, 2927]	3826	[5162, 4266]	5874	[6829, 1782]	7922	[6134, 3942]
1779	[2928, 2929]	3827	[5163, 5164]	5875	[6830, 6831]	7923	[5588, 6371]
1780	[927, 2930]	3828	[214, 1761]	5876	[6549, 591]	7924	[8061, 1579]
1781	[281, 2931]	3829	[5165, 2608]	5877	[6832, 62]	7925	[8062, 7211]
1782	[2932, 2933]	3830	[5166, 688]	5878	[6833, 2472]	7926	[3048, 2916]
1783	[2866, 2746]	3831	[1825, 1665]	5879	[6834, 5140]	7927	[3588, 6091]
1784	[2934, 2935]	3832	[5167, 4432]	5880	[6835, 6508]	7928	[8063, 3844]
1785	[2936, 2937]	3833	[5168, 647]	5881	[6836, 2489]	7929	[293, 2888]
1786	[2938, 2939]	3834	[5057, 5169]	5882	[6837, 4391]	7930	[8064, 3946]
1787	[2940, 2941]	3835	[2008, 5170]	5883	[6838, 4064]	7931	[2740, 1233]
1788	[2942, 2943]	3836	[5171, 4721]	5884	[2538, 6835]	7932	[8065, 3131]
1789	[2944, 2945]	3837	[5172, 2227]	5885	[10, 6574]	7933	[8066, 1298]
1790	[2946, 1017]	3838	[4245, 4795]	5886	[6839, 6457]	7934	[3304, 5589]
1791	[2947, 2948]	3839	[5173, 5174]	5887	[6840, 2307]	7935	[8067, 925]
1792	[2949, 2950]	3840	[5175, 663]	5888	[1895, 568]	7936	[2830, 340]
1793	[2951, 269]	3841	[5176, 4527]	5889	[6841, 620]	7937	[3419, 1163]
1794	[2952, 2953]	3842	[5177, 4215]	5890	[6842, 4744]	7938	[6087, 3310]
1795	[1248, 2954]	3843	[2023, 2215]	5891	[5030, 1911]	7939	[3005, 907]
1796	[2955, 2956]	3844	[5178, 1630]	5892	[6843, 4968]	7940	[8068, 3395]
1797	[2957, 1500]	3845	[5179, 843]	5893	[6844, 2164]	7941	[3009, 3149]
1798	[1591, 2958]	3846	[4945, 5180]	5894	[6845, 4052]	7942	[8069, 1490]
1799	[392, 2959]	3847	[46, 4256]	5895	[6846, 2101]	7943	[8070, 7320]
1800	[2960, 2961]	3848	[5181, 661]	5896	[6847, 5041]	7944	[3177, 337]
1801	[2962, 2963]	3849	[5182, 1913]	5897	[2530, 6695]	7945	[8071, 1074]
1802	[2964, 2965]	3850	[5183, 1678]	5898	[1673, 4671]	7946	[3877, 1103]
1803	[92, 2966]	3851	[5184, 2535]	5899	[6848, 1682]	7947	[8072, 5470]
1804	[2967, 2968]	3852	[5185, 2436]	5900	[1988, 7]	7948	[8073, 1002]
1805	[2969, 2970]	3853	[5186, 5187]	5901	[6849, 6850]	7949	[108, 1246]
1806	[2971, 1087]	3854	[2548, 5188]	5902	[6851, 6852]	7950	[998, 7253]
1807	[2972, 2973]	3855	[1813, 5189]	5903	[6852, 5101]	7951	[7928, 2681]
1808	[1596, 2974]	3856	[5190, 2036]	5904	[6480, 6589]	7952	[8074, 6494]
1809	[2975, 2976]	3857	[4361, 5128]	5905	[6853, 2338]	7953	[8075, 6925]
1810	[2977, 2756]	3858	[5191, 1983]	5906	[6854, 4299]	7954	[8076, 4889]
1811	[2978, 2979]	3859	[5192, 817]	5907	[6855, 5316]	7955	[4791, 2609]
1812	[2980, 2981]	3860	[5193, 5194]	5908	[2367, 5004]	7956	[8077, 7103]
1813	[2982, 2786]	3861	[2506, 5195]	5909	[6856, 5026]	7957	[8078, 660]
1814	[2983, 1235]	3862	[5196, 1783]	5910	[6857, 5160]	7958	[8079, 6774]
1815	[2984, 2985]	3863	[4496, 1948]	5911	[14, 6858]	7959	[6587, 7049]
1816	[2986, 2987]	3864	[5055, 2373]	5912	[218, 4850]	7960	[5151, 6470]
1817	[2988, 2972]	3865	[5197, 5198]	5913	[6859, 2076]	7961	[6477, 7060]
1818	[2989, 2990]	3866	[5199, 207]	5914	[6860, 6861]	7962	[877, 4966]
1819	[113, 2991]	3867	[5200, 4964]	5915	[6862, 6557]	7963	[8080, 1734]
1820	[2992, 2993]	3868	[5201, 1796]	5916	[6863, 1909]	7964	[8081, 777]

1821	[2994, 2995]	3869	[5202, 2578]	5917	[6864, 2022]	7965	[6708, 6792]
1822	[2996, 368]	3870	[5203, 2157]	5918	[6865, 5074]	7966	[2460, 7713]
1823	[2884, 380]	3871	[5204, 4506]	5919	[6866, 6760]	7967	[2509, 5156]
1824	[2997, 2998]	3872	[5205, 1884]	5920	[4672, 4401]	7968	[4803, 1885]
1825	[2999, 3000]	3873	[669, 5206]	5921	[6579, 2149]	7969	[8082, 5180]
1826	[3001, 79]	3874	[5207, 4423]	5922	[6867, 4921]	7970	[8083, 6484]
1827	[3002, 2845]	3875	[4113, 5025]	5923	[6868, 4069]	7971	[8084, 7843]
1828	[3003, 90]	3876	[5208, 5209]	5924	[5170, 4530]	7972	[8085, 2524]
1829	[3004, 3005]	3877	[5210, 4877]	5925	[2545, 5109]	7973	[4534, 5154]
1830	[3006, 3007]	3878	[5211, 179]	5926	[6869, 201]	7974	[1715, 4402]
1831	[3008, 3009]	3879	[5212, 35]	5927	[6870, 2325]	7975	[4611, 6439]
1832	[2956, 3010]	3880	[2496, 5213]	5928	[6871, 5068]	7976	[8086, 4489]
1833	[3011, 3012]	3881	[5214, 502]	5929	[6872, 588]	7977	[533, 6954]
1834	[3013, 3014]	3882	[5215, 2372]	5930	[6873, 4630]	7978	[8087, 708]
1835	[3015, 3016]	3883	[2017, 5216]	5931	[6874, 2602]	7979	[8088, 6611]
1836	[3017, 3018]	3884	[5217, 5218]	5932	[2312, 2361]	7980	[588, 4058]
1837	[3019, 1027]	3885	[5219, 2625]	5933	[6875, 6503]	7981	[8089, 7]
1838	[3020, 3021]	3886	[5220, 515]	5934	[4122, 4184]	7982	[8090, 2283]
1839	[3022, 1509]	3887	[5221, 4322]	5935	[6876, 6835]	7983	[8091, 2379]
1840	[3023, 3024]	3888	[5222, 4119]	5936	[6877, 1956]	7984	[8092, 5111]
1841	[3025, 3026]	3889	[5223, 5032]	5937	[493, 5032]	7985	[7129, 514]
1842	[3027, 3028]	3890	[1779, 236]	5938	[6878, 4449]	7986	[8093, 4867]
1843	[3029, 3030]	3891	[5224, 2367]	5939	[6879, 159]	7987	[8094, 2670]
1844	[3031, 3032]	3892	[5225, 4498]	5940	[6880, 2419]	7988	[6470, 6547]
1845	[3033, 3034]	3893	[5226, 496]	5941	[6881, 4226]	7989	[1810, 1629]
1846	[271, 3035]	3894	[5227, 4607]	5942	[6882, 1629]	7990	[8095, 4339]
1847	[3036, 1243]	3895	[247, 4075]	5943	[6883, 2681]	7991	[8096, 2104]
1848	[3037, 3038]	3896	[5228, 4765]	5944	[6884, 2306]	7992	[4290, 2505]
1849	[3039, 3040]	3897	[4263, 4620]	5945	[6542, 6702]	7993	[5091, 6780]
1850	[3041, 1184]	3898	[5124, 61]	5946	[6885, 6524]	7994	[577, 4126]
1851	[461, 2881]	3899	[5229, 4856]	5947	[6625, 6466]	7995	[8097, 4920]
1852	[3042, 1447]	3900	[5230, 4720]	5948	[245, 5028]	7996	[8098, 4827]
1853	[3043, 2815]	3901	[5231, 1990]	5949	[6886, 5156]	7997	[6782, 1809]
1854	[2913, 3044]	3902	[892, 2396]	5950	[6887, 2083]	7998	[657, 2104]
1855	[3045, 3046]	3903	[5232, 2535]	5951	[6888, 2081]	7999	[5120, 5087]
1856	[3047, 3048]	3904	[5233, 4388]	5952	[5157, 2426]	8000	[8099, 2238]
1857	[30, 3049]	3905	[5234, 4735]	5953	[6889, 2270]	8001	[7005, 4840]
1858	[3050, 1620]	3906	[4470, 1808]	5954	[1869, 1949]	8002	[1759, 4546]
1859	[3051, 3052]	3907	[5235, 740]	5955	[6890, 1676]	8003	[2387, 5038]
1860	[3053, 3054]	3908	[5236, 4694]	5956	[6891, 649]	8004	[1958, 5116]
1861	[3055, 3056]	3909	[5237, 1919]	5957	[6892, 573]	8005	[548, 4415]
1862	[1319, 3057]	3910	[5238, 5195]	5958	[6893, 5297]	8006	[6574, 4821]
1863	[3058, 1058]	3911	[5239, 5240]	5959	[6894, 566]	8007	[718, 4896]
1864	[3059, 1326]	3912	[5241, 4963]	5960	[2, 2474]	8008	[7058, 4435]

1865	[3060, 3061]	3913	[5242, 5107]	5961	[4877, 4350]	8009	[8100, 4565]
1866	[3062, 3063]	3914	[667, 4772]	5962	[6895, 734]	8010	[6780, 2]
1867	[3064, 288]	3915	[4518, 5243]	5963	[6896, 591]	8011	[2353, 4596]
1868	[3065, 3066]	3916	[5244, 5245]	5964	[6897, 748]	8012	[8101, 6688]
1869	[3067, 108]	3917	[5246, 4149]	5965	[730, 37]	8013	[5015, 1743]
1870	[3068, 3069]	3918	[5247, 44]	5966	[4679, 4635]	8014	[5085, 783]
1871	[3070, 2741]	3919	[5248, 1957]	5967	[2430, 5333]	8015	[2349, 7928]
1872	[3071, 3072]	3920	[5249, 542]	5968	[6898, 6899]	8016	[6974, 4630]
1873	[3073, 1055]	3921	[5250, 4571]	5969	[6900, 2124]	8017	[4631, 4389]
1874	[1590, 3074]	3922	[4961, 2684]	5970	[2664, 4613]	8018	[8102, 5146]
1875	[1358, 3075]	3923	[5251, 4383]	5971	[6901, 6902]	8019	[8103, 4796]
1876	[3076, 3077]	3924	[5252, 4961]	5972	[4041, 4383]	8020	[8104, 161]
1877	[3078, 3079]	3925	[5253, 4148]	5973	[6903, 4256]	8021	[8105, 6504]
1878	[3080, 3081]	3926	[5254, 2326]	5974	[4160, 1927]	8022	[8106, 4667]
1879	[3082, 2967]	3927	[5255, 4754]	5975	[5044, 6725]	8023	[4597, 2524]
1880	[3083, 1336]	3928	[5256, 4411]	5976	[6904, 4053]	8024	[4241, 4554]
1881	[3084, 3085]	3929	[5257, 5258]	5977	[6905, 4189]	8025	[8107, 6659]
1882	[2981, 3086]	3930	[5259, 2405]	5978	[4772, 2382]	8026	[6919, 4172]
1883	[3087, 3088]	3931	[5260, 5169]	5979	[6906, 6907]	8027	[8108, 6612]
1884	[1451, 262]	3932	[5261, 4111]	5980	[6908, 4170]	8028	[7842, 2663]
1885	[3089, 3090]	3933	[5262, 4317]	5981	[4816, 4724]	8029	[8109, 5174]
1886	[3091, 3092]	3934	[5263, 529]	5982	[1769, 6909]	8030	[8110, 1946]
1887	[3093, 3094]	3935	[612, 203]	5983	[6910, 4380]	8031	[8111, 1749]
1888	[3095, 3096]	3936	[5264, 5265]	5984	[6911, 4254]	8032	[8112, 1688]
1889	[3097, 3098]	3937	[5266, 4122]	5985	[6912, 2540]	8033	[8113, 4814]
1890	[3099, 1111]	3938	[2076, 4770]	5986	[6913, 2500]	8034	[60, 5245]
1891	[3100, 1280]	3939	[5008, 645]	5987	[6914, 4570]	8035	[8114, 7185]
1892	[3101, 3102]	3940	[2678, 853]	5988	[4830, 2662]	8036	[2164, 4356]
1893	[3103, 3104]	3941	[5267, 881]	5989	[6915, 4631]	8037	[8115, 4671]
1894	[123, 1155]	3942	[5268, 4768]	5990	[6916, 2454]	8038	[8116, 5305]
1895	[3105, 1069]	3943	[5269, 5270]	5991	[4403, 6602]	8039	[8117, 5325]
1896	[3106, 109]	3944	[5271, 5272]	5992	[6917, 5340]	8040	[8118, 5173]
1897	[3107, 1385]	3945	[5273, 741]	5993	[6918, 6919]	8041	[8119, 4454]
1898	[3108, 3109]	3946	[4824, 220]	5994	[6920, 506]	8042	[7935, 755]
1899	[3110, 3111]	3947	[5274, 4756]	5995	[1686, 4254]	8043	[4837, 1843]
1900	[3112, 3113]	3948	[5275, 5276]	5996	[6921, 862]	8044	[4205, 6866]
1901	[2729, 3114]	3949	[5277, 5206]	5997	[6922, 574]	8045	[8120, 2658]
1902	[106, 3115]	3950	[5278, 2398]	5998	[6923, 648]	8046	[8121, 7156]
1903	[3116, 3117]	3951	[4059, 5261]	5999	[6924, 2426]	8047	[714, 5129]
1904	[3118, 3119]	3952	[5051, 4132]	6000	[4237, 6503]	8048	[4446, 808]
1905	[3120, 2706]	3953	[4358, 1805]	6001	[6494, 2163]	8049	[8122, 4962]
1906	[3121, 3122]	3954	[5279, 557]	6002	[2362, 2520]	8050	[8123, 4831]
1907	[3123, 3124]	3955	[5280, 172]	6003	[4628, 4718]	8051	[846, 6782]
1908	[3125, 3126]	3956	[5281, 5282]	6004	[6606, 6925]	8052	[8124, 482]

1909	[3127, 3128]	3957	[5283, 1835]	6005	[6926, 6645]	8053	[7843, 2625]
1910	[958, 3129]	3958	[5284, 4622]	6006	[6927, 2236]	8054	[8125, 604]
1911	[3130, 439]	3959	[4095, 164]	6007	[5126, 4980]	8055	[7704, 2419]
1912	[2909, 3131]	3960	[5180, 2004]	6008	[2518, 5258]	8056	[2210, 6552]
1913	[3132, 2873]	3961	[5285, 4359]	6009	[2223, 6902]	8057	[8126, 779]
1914	[2958, 3133]	3962	[5286, 4467]	6010	[6928, 4126]	8058	[5174, 6473]
1915	[3134, 1185]	3963	[5287, 5288]	6011	[4243, 2476]	8059	[5206, 6529]
1916	[3135, 3136]	3964	[732, 2195]	6012	[6929, 4687]	8060	[8127, 4282]
1917	[3137, 967]	3965	[5289, 531]	6013	[6930, 5128]	8061	[8128, 4589]
1918	[3026, 1120]	3966	[5290, 766]	6014	[6931, 174]	8062	[8129, 4679]
1919	[3138, 1448]	3967	[5291, 2114]	6015	[6932, 4468]	8063	[8130, 4815]
1920	[3126, 3139]	3968	[5292, 4984]	6016	[2528, 1641]	8064	[8131, 4497]
1921	[3140, 1416]	3969	[5293, 4818]	6017	[4075, 1678]	8065	[8132, 895]
1922	[2853, 3141]	3970	[5294, 2571]	6018	[6933, 4950]	8066	[8133, 4573]
1923	[3142, 69]	3971	[556, 4875]	6019	[6934, 738]	8067	[8134, 621]
1924	[2759, 3143]	3972	[5295, 817]	6020	[5314, 4951]	8068	[7865, 4705]
1925	[3144, 3145]	3973	[1681, 4275]	6021	[6935, 580]	8069	[770, 2525]
1926	[3146, 3147]	3974	[2472, 4593]	6022	[6936, 4279]	8070	[7181, 4780]
1927	[3148, 3149]	3975	[5296, 767]	6023	[6937, 1763]	8071	[8135, 2414]
1928	[3150, 3080]	3976	[2361, 4650]	6024	[6806, 2184]	8072	[8136, 6951]
1929	[3151, 3152]	3977	[536, 5297]	6025	[6520, 4756]	8073	[4821, 2358]
1930	[3153, 3154]	3978	[5245, 4321]	6026	[5298, 6938]	8074	[2848, 903]
1931	[3155, 1191]	3979	[2185, 5298]	6027	[6939, 4412]	8075	[8137, 3275]
1932	[2816, 3156]	3980	[5299, 848]	6028	[6441, 4908]	8076	[6144, 2777]
1933	[3157, 3158]	3981	[5300, 5301]	6029	[6940, 6485]	8077	[3674, 3662]
1934	[3159, 2947]	3982	[2337, 56]	6030	[6941, 4655]	8078	[3478, 1230]
1935	[3160, 3161]	3983	[2286, 4148]	6031	[6942, 2020]	8079	[94, 4017]
1936	[3162, 1489]	3984	[1726, 5270]	6032	[6943, 4713]	8080	[8138, 1522]
1937	[3163, 1291]	3985	[5302, 4872]	6033	[6944, 6629]	8081	[8139, 1430]
1938	[3164, 1293]	3986	[5303, 2058]	6034	[4950, 6678]	8082	[8140, 3154]
1939	[2812, 3093]	3987	[5304, 4185]	6035	[2055, 4818]	8083	[3038, 3785]
1940	[3165, 1023]	3988	[5305, 5306]	6036	[2583, 5305]	8084	[1330, 3393]
1941	[3166, 1500]	3989	[4735, 2356]	6037	[6945, 4956]	8085	[68, 6065]
1942	[3167, 3168]	3990	[2479, 2151]	6038	[6946, 4381]	8086	[3517, 1381]
1943	[3169, 2980]	3991	[5307, 130]	6039	[6947, 4096]	8087	[8141, 2958]
1944	[3170, 2894]	3992	[5308, 4069]	6040	[6948, 687]	8088	[346, 450]
1945	[1491, 3171]	3993	[5309, 1656]	6041	[6949, 4538]	8089	[5586, 6031]
1946	[3172, 3173]	3994	[1654, 4251]	6042	[6950, 6951]	8090	[8142, 1237]
1947	[3174, 3175]	3995	[5310, 2242]	6043	[6952, 4174]	8091	[3595, 3892]
1948	[3176, 3177]	3996	[5311, 4881]	6044	[6953, 6954]	8092	[5932, 3401]
1949	[3178, 3179]	3997	[5312, 195]	6045	[6955, 483]	8093	[3115, 3826]
1950	[338, 79]	3998	[5313, 5314]	6046	[6956, 173]	8094	[8143, 1018]
1951	[3180, 1508]	3999	[5315, 2676]	6047	[6957, 4141]	8095	[2802, 1572]
1952	[3181, 3182]	4000	[4638, 5316]	6048	[6858, 779]	8096	[6229, 1181]

1953	[3183, 984]	4001	[5317, 4304]	6049	[6958, 2143]	8097	[6337, 3800]
1954	[3184, 3185]	4002	[5318, 2159]	6050	[6959, 4159]	8098	[979, 3200]
1955	[3186, 1572]	4003	[4378, 2636]	6051	[6717, 6419]	8099	[5348, 3290]
1956	[1519, 3187]	4004	[5319, 2248]	6052	[6960, 4370]	8100	[8144, 3447]
1957	[3188, 1083]	4005	[5320, 567]	6053	[4407, 5194]	8101	[3147, 3206]
1958	[3189, 1170]	4006	[5321, 5067]	6054	[6961, 1743]	8102	[8145, 3324]
1959	[3190, 3191]	4007	[4963, 5256]	6055	[6962, 4773]	8103	[3814, 1055]
1960	[1284, 3192]	4008	[1872, 4707]	6056	[6963, 1970]	8104	[8146, 1293]
1961	[1564, 3193]	4009	[5322, 4618]	6057	[6964, 4494]	8105	[8147, 7127]
1962	[1050, 1190]	4010	[5323, 5212]	6058	[4441, 480]	8106	[2835, 5887]
1963	[3194, 3195]	4011	[5324, 4087]	6059	[6965, 1834]	8107	[8148, 2933]
1964	[1298, 3196]	4012	[4105, 1732]	6060	[1730, 6966]	8108	[3152, 2714]
1965	[90, 3197]	4013	[489, 883]	6061	[5189, 680]	8109	[8149, 1200]
1966	[3198, 3199]	4014	[5325, 4734]	6062	[1701, 4210]	8110	[2793, 5980]
1967	[3200, 3201]	4015	[5326, 4380]	6063	[4868, 4427]	8111	[6116, 2922]
1968	[16, 2743]	4016	[5327, 4501]	6064	[2614, 4375]	8112	[3473, 936]
1969	[3202, 3203]	4017	[5328, 4465]	6065	[6967, 1767]	8113	[457, 3716]
1970	[3204, 2711]	4018	[5329, 2599]	6066	[6968, 1862]	8114	[5833, 3603]
1971	[3205, 3206]	4019	[5330, 806]	6067	[6969, 4632]	8115	[3113, 2828]
1972	[3207, 3208]	4020	[2181, 4964]	6068	[1863, 6641]	8116	[8150, 3046]
1973	[3209, 3210]	4021	[5331, 2030]	6069	[6716, 5292]	8117	[7273, 3819]
1974	[3211, 399]	4022	[636, 2142]	6070	[6970, 4669]	8118	[975, 3034]
1975	[3212, 1451]	4023	[5332, 4592]	6071	[2037, 4112]	8119	[8151, 1560]
1976	[3213, 3193]	4024	[1978, 2666]	6072	[6971, 1885]	8120	[8152, 3396]
1977	[3214, 3215]	4025	[529, 1865]	6073	[6972, 2168]	8121	[8153, 334]
1978	[3216, 3217]	4026	[5333, 1929]	6074	[6973, 6974]	8122	[8154, 3224]
1979	[3218, 3219]	4027	[5334, 2105]	6075	[6975, 1981]	8123	[8155, 1102]
1980	[3220, 352]	4028	[563, 4775]	6076	[6976, 4541]	8124	[8156, 1508]
1981	[3221, 1122]	4029	[1669, 5335]	6077	[6977, 4652]	8125	[1350, 3584]
1982	[3222, 3223]	4030	[2211, 4932]	6078	[4881, 4785]	8126	[8157, 1003]
1983	[2931, 3224]	4031	[5336, 757]	6079	[6978, 6803]	8127	[3695, 1309]
1984	[3225, 420]	4032	[5337, 2410]	6080	[6979, 4562]	8128	[2903, 3524]
1985	[3226, 1607]	4033	[5338, 5339]	6081	[6980, 4192]	8129	[8158, 2875]
1986	[3227, 3228]	4034	[4980, 5340]	6082	[602, 2263]	8130	[3104, 5448]
1987	[3229, 3230]	4035	[5341, 4553]	6083	[6981, 625]	8131	[1388, 3498]
1988	[1417, 17]	4036	[2159, 2451]	6084	[4142, 6606]	8132	[8159, 1462]
1989	[1134, 3231]	4037	[4511, 5184]	6085	[4568, 4409]	8133	[2859, 2842]
1990	[3232, 1167]	4038	[5342, 3559]	6086	[6982, 6983]	8134	[7511, 1184]
1991	[3233, 1551]	4039	[5343, 5344]	6087	[6984, 699]	8135	[1542, 3030]
1992	[2745, 3234]	4040	[5345, 3119]	6088	[6985, 1850]	8136	[8160, 440]
1993	[3235, 2859]	4041	[5346, 3220]	6089	[4227, 5011]	8137	[8161, 7143]
1994	[3236, 331]	4042	[5347, 5348]	6090	[6986, 4707]	8138	[5306, 4715]
1995	[2920, 3237]	4043	[3717, 2941]	6091	[6987, 579]	8139	[8162, 1949]
1996	[3238, 3239]	4044	[5349, 2791]	6092	[6988, 4466]	8140	[8163, 4625]

1997	[3240, 3241]	4045	[3275, 1595]	6093	[6989, 2231]	8141	[8164, 496]
1998	[2738, 3242]	4046	[5350, 5351]	6094	[6990, 2342]	8142	[4505, 4487]
1999	[990, 412]	4047	[5352, 5353]	6095	[2484, 4567]	8143	[8165, 5210]
2000	[3243, 3244]	4048	[3248, 5354]	6096	[6991, 508]	8144	[1893, 6550]
2001	[3245, 3246]	4049	[5355, 5356]	6097	[6992, 2554]	8145	[8166, 4850]
2002	[3247, 3248]	4050	[5357, 3744]	6098	[6993, 6994]	8146	[8167, 1893]
2003	[3249, 1043]	4051	[3584, 3435]	6099	[6741, 4797]	8147	[8168, 5308]
2004	[3154, 3250]	4052	[1600, 5358]	6100	[4252, 4456]	8148	[1922, 7798]
2005	[3049, 3251]	4053	[5359, 5360]	6101	[6995, 4477]	8149	[640, 7760]
2006	[3252, 3253]	4054	[5361, 5362]	6102	[2096, 6671]	8150	[5301, 1981]
2007	[3254, 3255]	4055	[5363, 5364]	6103	[6996, 482]	8151	[5276, 6629]
2008	[3256, 3257]	4056	[5365, 3006]	6104	[6997, 4219]	8152	[4965, 5226]
2009	[3258, 3259]	4057	[5366, 1004]	6105	[6998, 2265]	8153	[8169, 6765]
2010	[3260, 3261]	4058	[5367, 5368]	6106	[4313, 6919]	8154	[8170, 162]
2011	[3262, 3263]	4059	[1104, 5369]	6107	[5213, 742]	8155	[8171, 4353]
2012	[3264, 92]	4060	[5370, 2837]	6108	[6999, 1984]	8156	[212, 4851]
2013	[3265, 2733]	4061	[455, 1399]	6109	[7000, 533]	8157	[8172, 1792]
2014	[1409, 2784]	4062	[5371, 3367]	6110	[7001, 6668]	8158	[8173, 6695]
2015	[3266, 3267]	4063	[5372, 369]	6111	[7002, 7003]	8159	[8174, 2262]
2016	[3268, 1555]	4064	[5373, 3251]	6112	[7004, 208]	8160	[227, 4805]
2017	[3269, 3270]	4065	[5374, 1128]	6113	[2513, 230]	8161	[8175, 2891]
2018	[3271, 3272]	4066	[5375, 2723]	6114	[5297, 7005]	8162	[8176, 338]
2019	[3273, 3274]	4067	[467, 5376]	6115	[177, 2414]	8163	[6046, 3179]
2020	[86, 3275]	4068	[1047, 5377]	6116	[7006, 586]	8164	[8177, 3595]
2021	[3276, 3277]	4069	[5378, 5379]	6117	[7007, 1901]	8165	[8178, 3018]
2022	[3278, 3279]	4070	[1112, 5380]	6118	[7008, 6458]	8166	[7235, 3225]
2023	[3040, 3280]	4071	[3519, 1527]	6119	[7009, 7010]	8167	[8179, 917]
2024	[1270, 3281]	4072	[3340, 1306]	6120	[6820, 4764]	8168	[8180, 2964]
2025	[3282, 3283]	4073	[5381, 2981]	6121	[5004, 2310]	8169	[8181, 1403]
2026	[3284, 3121]	4074	[115, 3666]	6122	[7011, 4227]	8170	[8182, 3964]
2027	[3285, 3286]	4075	[475, 1028]	6123	[6473, 4197]	8171	[8183, 3612]
2028	[3287, 2881]	4076	[3293, 937]	6124	[2258, 2345]	8172	[3077, 2951]
2029	[3288, 3082]	4077	[5382, 927]	6125	[7012, 692]	8173	[6049, 2939]
2030	[3289, 3290]	4078	[5383, 3351]	6126	[7013, 5333]	8174	[8184, 5567]
2031	[3291, 3240]	4079	[5384, 3960]	6127	[7014, 4099]	8175	[8185, 5093]
2032	[3292, 3293]	4080	[3133, 3383]	6128	[7015, 664]	8176	[2355, 158]
2033	[1455, 3294]	4081	[424, 5385]	6129	[4857, 4937]	8177	[8186, 5066]
2034	[342, 3271]	4082	[5386, 1253]	6130	[7016, 6938]	8178	[4487, 2092]
2035	[3000, 3276]	4083	[3014, 5387]	6131	[7017, 4893]	8179	[4770, 4945]
2036	[3295, 3296]	4084	[3350, 256]	6132	[4912, 2078]	8180	[8187, 5309]
2037	[3297, 3264]	4085	[1460, 3990]	6133	[567, 7018]	8181	[4525, 1869]
2038	[3298, 1134]	4086	[3429, 1166]	6134	[7019, 4337]	8182	[8188, 4251]
2039	[3299, 957]	4087	[3193, 5388]	6135	[7020, 6581]	8183	[8189, 568]
2040	[3300, 2871]	4088	[1462, 5365]	6136	[7021, 2591]	8184	[554, 2047]

2041	[1515, 2874]	4089	[5389, 5366]	6137	[7022, 2205]	8185	[3599, 3687]
2042	[1152, 1142]	4090	[5390, 3025]	6138	[2088, 7003]	8186	[5750, 3195]
2043	[3301, 3302]	4091	[5391, 3965]	6139	[7023, 6996]	8187	[3688, 327]
2044	[3303, 3304]	4092	[388, 5348]	6140	[7024, 4844]	8188	[5428, 1478]
2045	[3305, 2898]	4093	[5392, 5393]	6141	[7025, 4848]	8189	[1062, 5857]
2046	[3306, 3307]	4094	[5394, 319]	6142	[7026, 4394]		
2047	[3308, 3309]	4095	[1006, 2924]	6143	[7027, 2411]		

Output function $n \mapsto \tau(n)$:

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1366	1	2732	0	4098	1	5464	0	6830	1
1	0	1367	1	2733	1	4099	0	5465	1	6831	0
2	0	1368	0	2734	0	4100	1	5466	0	6832	0
3	0	1369	1	2735	1	4101	0	5467	1	6833	1
4	0	1370	1	2736	0	4102	0	5468	0	6834	0
5	0	1371	1	2737	0	4103	0	5469	1	6835	1
6	0	1372	0	2738	0	4104	1	5470	0	6836	0
7	0	1373	0	2739	1	4105	0	5471	1	6837	0
8	1	1374	0	2740	1	4106	0	5472	1	6838	1
9	0	1375	1	2741	0	4107	0	5473	1	6839	0
10	0	1376	1	2742	0	4108	1	5474	1	6840	0
11	0	1377	0	2743	0	4109	1	5475	0	6841	1
12	1	1378	1	2744	1	4110	0	5476	1	6842	1
13	0	1379	1	2745	0	4111	1	5477	1	6843	1
14	0	1380	1	2746	0	4112	1	5478	1	6844	1
15	0	1381	1	2747	1	4113	1	5479	0	6845	0
16	1	1382	0	2748	0	4114	1	5480	0	6846	1
17	1	1383	1	2749	1	4115	0	5481	1	6847	0
18	0	1384	1	2750	0	4116	0	5482	0	6848	0
19	0	1385	0	2751	0	4117	1	5483	1	6849	0
20	0	1386	0	2752	0	4118	1	5484	1	6850	0
21	0	1387	1	2753	1	4119	0	5485	1	6851	0
22	1	1388	1	2754	1	4120	1	5486	1	6852	0
23	0	1389	1	2755	0	4121	0	5487	0	6853	1
24	0	1390	1	2756	1	4122	0	5488	0	6854	0
25	1	1391	1	2757	1	4123	1	5489	0	6855	0
26	1	1392	0	2758	1	4124	1	5490	0	6856	0
27	0	1393	1	2759	1	4125	1	5491	1	6857	1
28	1	1394	1	2760	0	4126	1	5492	1	6858	1
29	0	1395	1	2761	0	4127	1	5493	0	6859	0
30	1	1396	1	2762	1	4128	0	5494	1	6860	0
31	0	1397	0	2763	0	4129	1	5495	1	6861	1
32	0	1398	1	2764	1	4130	0	5496	1	6862	1
33	1	1399	0	2765	1	4131	0	5497	0	6863	1

34	0	1400	1	2766	1	4132	0	5498	0	6864	0
35	1	1401	0	2767	0	4133	0	5499	1	6865	0
36	1	1402	0	2768	1	4134	0	5500	1	6866	0
37	0	1403	0	2769	1	4135	0	5501	0	6867	0
38	0	1404	1	2770	1	4136	0	5502	0	6868	0
39	0	1405	1	2771	1	4137	0	5503	1	6869	0
40	1	1406	1	2772	1	4138	1	5504	1	6870	1
41	0	1407	1	2773	0	4139	1	5505	0	6871	0
42	0	1408	0	2774	1	4140	1	5506	0	6872	0
43	0	1409	1	2775	1	4141	0	5507	0	6873	1
44	1	1410	1	2776	0	4142	1	5508	0	6874	1
45	1	1411	0	2777	0	4143	1	5509	1	6875	0
46	1	1412	1	2778	0	4144	1	5510	1	6876	1
47	0	1413	0	2779	1	4145	1	5511	0	6877	1
48	1	1414	1	2780	0	4146	0	5512	0	6878	0
49	0	1415	0	2781	0	4147	1	5513	1	6879	1
50	1	1416	1	2782	0	4148	1	5514	1	6880	1
51	1	1417	0	2783	0	4149	0	5515	1	6881	0
52	0	1418	0	2784	0	4150	1	5516	0	6882	0
53	1	1419	0	2785	1	4151	1	5517	0	6883	0
54	0	1420	1	2786	1	4152	1	5518	0	6884	0
55	0	1421	0	2787	0	4153	1	5519	0	6885	0
56	0	1422	1	2788	1	4154	1	5520	1	6886	0
57	1	1423	1	2789	1	4155	1	5521	1	6887	0
58	1	1424	1	2790	1	4156	0	5522	1	6888	0
59	0	1425	1	2791	0	4157	0	5523	0	6889	0
60	1	1426	0	2792	1	4158	0	5524	1	6890	1
61	1	1427	0	2793	1	4159	0	5525	1	6891	1
62	0	1428	0	2794	1	4160	1	5526	0	6892	1
63	0	1429	0	2795	0	4161	1	5527	1	6893	0
64	1	1430	0	2796	1	4162	0	5528	1	6894	1
65	0	1431	1	2797	1	4163	1	5529	1	6895	1
66	0	1432	1	2798	0	4164	1	5530	1	6896	0
67	1	1433	1	2799	1	4165	0	5531	1	6897	0
68	1	1434	0	2800	1	4166	0	5532	0	6898	0
69	0	1435	1	2801	1	4167	0	5533	0	6899	0
70	0	1436	1	2802	0	4168	0	5534	0	6900	0
71	1	1437	0	2803	0	4169	1	5535	0	6901	0
72	0	1438	1	2804	1	4170	0	5536	1	6902	1
73	1	1439	0	2805	1	4171	1	5537	1	6903	0
74	0	1440	1	2806	0	4172	1	5538	1	6904	1
75	0	1441	0	2807	0	4173	0	5539	1	6905	0
76	0	1442	1	2808	1	4174	1	5540	1	6906	1
77	0	1443	0	2809	1	4175	1	5541	0	6907	1

78	1	1444	1	2810	1	4176	1	5542	1	6908	1
79	0	1445	0	2811	0	4177	1	5543	1	6909	0
80	0	1446	0	2812	0	4178	1	5544	0	6910	1
81	1	1447	0	2813	0	4179	1	5545	1	6911	0
82	0	1448	0	2814	1	4180	1	5546	1	6912	1
83	0	1449	1	2815	0	4181	1	5547	1	6913	1
84	0	1450	0	2816	1	4182	0	5548	0	6914	1
85	0	1451	0	2817	0	4183	1	5549	0	6915	0
86	0	1452	0	2818	1	4184	1	5550	0	6916	0
87	0	1453	0	2819	1	4185	1	5551	1	6917	1
88	1	1454	0	2820	1	4186	0	5552	1	6918	0
89	1	1455	1	2821	1	4187	0	5553	1	6919	1
90	1	1456	0	2822	1	4188	1	5554	1	6920	1
91	1	1457	1	2823	1	4189	0	5555	0	6921	0
92	1	1458	0	2824	0	4190	1	5556	1	6922	1
93	1	1459	0	2825	1	4191	1	5557	0	6923	1
94	1	1460	1	2826	0	4192	1	5558	1	6924	1
95	0	1461	1	2827	1	4193	1	5559	0	6925	0
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97	1	1463	1	2829	1	4195	0	5561	0	6927	1
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102	1	1468	0	2834	1	4200	1	5566	1	6932	1
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117	1	1483	0	2849	1	4215	1	5581	1	6947	1
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120	1	1486	0	2852	0	4218	0	5584	0	6950	0
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152	0	1518	0	2884	0	4250	1	5616	1	6982	1
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170	0	1536	0	2902	0	4268	1	5634	0	7000	1
171	0	1537	1	2903	1	4269	0	5635	0	7001	1
172	0	1538	0	2904	1	4270	0	5636	0	7002	0
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174	1	1540	1	2906	0	4272	1	5638	1	7004	1
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177	1	1543	0	2909	1	4275	1	5641	1	7007	0
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182	1	1548	0	2914	1	4280	1	5646	0	7012	0
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185	0	1551	1	2917	0	4283	0	5649	0	7015	1
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230	1	1596	0	2962	1	4328	1	5694	1	7060	0
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236	1	1602	1	2968	1	4334	1	5700	1	7066	0
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263	0	1629	1	2995	0	4361	1	5727	1	7093	0
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267	1	1633	0	2999	0	4365	0	5731	0	7097	1
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270	0	1636	1	3002	0	4368	0	5734	1	7100	0
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273	1	1639	1	3005	0	4371	0	5737	0	7103	0
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276	1	1642	0	3008	1	4374	0	5740	1	7106	1
277	1	1643	0	3009	1	4375	1	5741	0	7107	0
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286	1	1652	0	3018	1	4384	0	5750	1	7116	1
287	0	1653	0	3019	1	4385	0	5751	1	7117	0
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361	0	1727	0	3093	0	4459	0	5825	0	7191	1
362	1	1728	1	3094	1	4460	1	5826	1	7192	1
363	1	1729	0	3095	0	4461	0	5827	1	7193	1
364	1	1730	1	3096	1	4462	1	5828	0	7194	1
365	0	1731	1	3097	1	4463	0	5829	0	7195	1
366	0	1732	1	3098	0	4464	0	5830	1	7196	1
367	0	1733	0	3099	0	4465	0	5831	1	7197	0
368	0	1734	0	3100	1	4466	1	5832	1	7198	1
369	1	1735	1	3101	1	4467	0	5833	1	7199	0
370	0	1736	0	3102	0	4468	0	5834	1	7200	1
371	1	1737	0	3103	1	4469	0	5835	0	7201	0
372	1	1738	0	3104	1	4470	0	5836	0	7202	1
373	0	1739	1	3105	0	4471	1	5837	1	7203	0
374	1	1740	1	3106	0	4472	1	5838	0	7204	1
375	0	1741	0	3107	0	4473	0	5839	0	7205	1
376	1	1742	1	3108	1	4474	1	5840	0	7206	1
377	0	1743	1	3109	1	4475	1	5841	0	7207	0
378	0	1744	1	3110	0	4476	1	5842	0	7208	0
379	1	1745	1	3111	1	4477	1	5843	1	7209	1
380	1	1746	1	3112	1	4478	0	5844	1	7210	0
381	1	1747	1	3113	1	4479	0	5845	0	7211	1
382	0	1748	0	3114	0	4480	0	5846	1	7212	1
383	0	1749	1	3115	0	4481	1	5847	1	7213	1
384	0	1750	1	3116	1	4482	0	5848	1	7214	0
385	1	1751	1	3117	0	4483	1	5849	0	7215	0

386	1	1752	0	3118	1	4484	0	5850	1	7216	0
387	0	1753	0	3119	1	4485	0	5851	1	7217	0
388	1	1754	0	3120	0	4486	1	5852	0	7218	1
389	1	1755	1	3121	0	4487	0	5853	1	7219	1
390	0	1756	1	3122	1	4488	0	5854	1	7220	0
391	1	1757	0	3123	1	4489	0	5855	0	7221	0
392	1	1758	1	3124	0	4490	1	5856	1	7222	1
393	1	1759	1	3125	0	4491	0	5857	1	7223	0
394	1	1760	0	3126	1	4492	0	5858	0	7224	0
395	1	1761	1	3127	0	4493	1	5859	0	7225	0
396	1	1762	1	3128	0	4494	1	5860	0	7226	1
397	0	1763	0	3129	1	4495	0	5861	0	7227	0
398	1	1764	0	3130	0	4496	0	5862	1	7228	1
399	1	1765	1	3131	0	4497	1	5863	1	7229	0
400	1	1766	0	3132	1	4498	0	5864	1	7230	1
401	0	1767	0	3133	1	4499	1	5865	0	7231	0
402	0	1768	0	3134	0	4500	1	5866	0	7232	1
403	0	1769	1	3135	0	4501	0	5867	1	7233	1
404	0	1770	0	3136	1	4502	1	5868	0	7234	0
405	0	1771	1	3137	0	4503	1	5869	0	7235	0
406	1	1772	0	3138	0	4504	1	5870	0	7236	1
407	1	1773	1	3139	0	4505	0	5871	1	7237	0
408	0	1774	0	3140	0	4506	1	5872	0	7238	0
409	1	1775	1	3141	0	4507	0	5873	0	7239	0
410	1	1776	1	3142	0	4508	1	5874	0	7240	1
411	1	1777	1	3143	1	4509	0	5875	1	7241	0
412	0	1778	1	3144	0	4510	0	5876	1	7242	0
413	0	1779	1	3145	1	4511	0	5877	0	7243	0
414	1	1780	0	3146	1	4512	0	5878	1	7244	1
415	1	1781	0	3147	1	4513	1	5879	0	7245	0
416	0	1782	1	3148	1	4514	1	5880	1	7246	1
417	0	1783	0	3149	0	4515	0	5881	0	7247	0
418	1	1784	1	3150	0	4516	0	5882	0	7248	1
419	0	1785	0	3151	1	4517	0	5883	1	7249	1
420	0	1786	1	3152	1	4518	1	5884	0	7250	1
421	1	1787	0	3153	0	4519	0	5885	0	7251	0
422	0	1788	1	3154	1	4520	0	5886	0	7252	1
423	0	1789	1	3155	0	4521	0	5887	0	7253	0
424	0	1790	0	3156	0	4522	1	5888	0	7254	0
425	0	1791	1	3157	1	4523	1	5889	1	7255	0
426	1	1792	0	3158	0	4524	1	5890	1	7256	0
427	0	1793	1	3159	0	4525	0	5891	0	7257	0
428	1	1794	1	3160	0	4526	0	5892	1	7258	0
429	1	1795	1	3161	0	4527	0	5893	1	7259	1

430	0	1796	1	3162	0	4528	0	5894	0	7260	1
431	1	1797	0	3163	0	4529	1	5895	1	7261	0
432	1	1798	1	3164	0	4530	0	5896	0	7262	1
433	1	1799	1	3165	0	4531	1	5897	0	7263	0
434	0	1800	1	3166	0	4532	0	5898	0	7264	1
435	1	1801	1	3167	1	4533	1	5899	0	7265	0
436	1	1802	1	3168	0	4534	1	5900	0	7266	0
437	1	1803	1	3169	1	4535	0	5901	0	7267	1
438	1	1804	1	3170	0	4536	0	5902	0	7268	0
439	1	1805	0	3171	0	4537	0	5903	0	7269	1
440	0	1806	0	3172	0	4538	0	5904	0	7270	0
441	1	1807	1	3173	1	4539	0	5905	1	7271	1
442	0	1808	0	3174	1	4540	0	5906	0	7272	0
443	1	1809	1	3175	0	4541	1	5907	0	7273	1
444	0	1810	1	3176	1	4542	1	5908	1	7274	0
445	0	1811	1	3177	0	4543	0	5909	0	7275	1
446	0	1812	0	3178	0	4544	1	5910	1	7276	0
447	1	1813	0	3179	0	4545	0	5911	0	7277	0
448	0	1814	0	3180	0	4546	0	5912	1	7278	1
449	1	1815	1	3181	1	4547	0	5913	0	7279	0
450	0	1816	1	3182	0	4548	1	5914	0	7280	1
451	1	1817	1	3183	0	4549	1	5915	1	7281	1
452	1	1818	1	3184	1	4550	0	5916	1	7282	1
453	0	1819	1	3185	0	4551	1	5917	0	7283	1
454	1	1820	0	3186	0	4552	0	5918	0	7284	0
455	1	1821	0	3187	1	4553	1	5919	0	7285	0
456	1	1822	0	3188	0	4554	0	5920	1	7286	0
457	0	1823	0	3189	0	4555	0	5921	1	7287	1
458	1	1824	1	3190	1	4556	0	5922	0	7288	1
459	1	1825	0	3191	0	4557	0	5923	0	7289	0
460	0	1826	0	3192	0	4558	0	5924	0	7290	0
461	0	1827	0	3193	1	4559	1	5925	1	7291	1
462	1	1828	1	3194	1	4560	0	5926	0	7292	1
463	1	1829	1	3195	1	4561	0	5927	1	7293	1
464	0	1830	0	3196	0	4562	0	5928	0	7294	1
465	1	1831	1	3197	0	4563	0	5929	0	7295	1
466	0	1832	1	3198	0	4564	0	5930	1	7296	1
467	0	1833	0	3199	0	4565	0	5931	1	7297	0
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470	0	1836	0	3202	0	4568	1	5934	0	7300	0
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472	1	1838	0	3204	1	4570	1	5936	1	7302	1
473	1	1839	1	3205	1	4571	0	5937	0	7303	1

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476	0	1842	1	3208	1	4574	0	5940	1	7306	0
477	0	1843	0	3209	0	4575	0	5941	0	7307	0
478	0	1844	1	3210	0	4576	0	5942	0	7308	0
479	1	1845	1	3211	0	4577	0	5943	0	7309	1
480	0	1846	1	3212	0	4578	0	5944	0	7310	1
481	1	1847	0	3213	0	4579	0	5945	0	7311	0
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483	1	1849	0	3215	1	4581	1	5947	0	7313	1
484	1	1850	1	3216	0	4582	1	5948	1	7314	1
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487	0	1853	0	3219	0	4585	1	5951	0	7317	1
488	1	1854	1	3220	1	4586	0	5952	0	7318	1
489	1	1855	1	3221	1	4587	1	5953	0	7319	1
490	1	1856	1	3222	1	4588	1	5954	1	7320	0
491	1	1857	1	3223	1	4589	1	5955	1	7321	1
492	0	1858	0	3224	1	4590	0	5956	1	7322	0
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494	0	1860	1	3226	0	4592	1	5958	0	7324	1
495	1	1861	1	3227	1	4593	1	5959	1	7325	1
496	1	1862	1	3228	1	4594	1	5960	0	7326	0
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499	0	1865	0	3231	1	4597	0	5963	0	7329	1
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502	0	1868	1	3234	1	4600	1	5966	0	7332	0
503	1	1869	1	3235	1	4601	0	5967	1	7333	0
504	1	1870	1	3236	0	4602	0	5968	0	7334	0
505	0	1871	0	3237	0	4603	1	5969	0	7335	1
506	1	1872	1	3238	1	4604	1	5970	0	7336	1
507	0	1873	0	3239	0	4605	1	5971	0	7337	0
508	0	1874	1	3240	1	4606	1	5972	0	7338	1
509	0	1875	1	3241	0	4607	1	5973	0	7339	1
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513	1	1879	0	3245	0	4611	0	5977	0	7343	1
514	0	1880	0	3246	1	4612	1	5978	0	7344	1
515	1	1881	1	3247	1	4613	0	5979	1	7345	1
516	1	1882	1	3248	1	4614	0	5980	1	7346	1
517	1	1883	1	3249	1	4615	1	5981	0	7347	0

518	1	1884	0	3250	0	4616	0	5982	1	7348	0
519	0	1885	1	3251	0	4617	0	5983	1	7349	0
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521	0	1887	0	3253	1	4619	1	5985	1	7351	1
522	0	1888	0	3254	1	4620	0	5986	1	7352	1
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524	1	1890	0	3256	1	4622	1	5988	1	7354	1
525	0	1891	1	3257	0	4623	1	5989	0	7355	1
526	0	1892	1	3258	0	4624	1	5990	0	7356	0
527	1	1893	1	3259	0	4625	0	5991	1	7357	0
528	1	1894	0	3260	0	4626	0	5992	1	7358	1
529	1	1895	0	3261	0	4627	1	5993	0	7359	0
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531	1	1897	0	3263	0	4629	1	5995	1	7361	0
532	0	1898	1	3264	1	4630	1	5996	0	7362	0
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535	1	1901	1	3267	1	4633	0	5999	1	7365	0
536	1	1902	1	3268	0	4634	0	6000	1	7366	0
537	0	1903	1	3269	0	4635	0	6001	1	7367	0
538	1	1904	1	3270	0	4636	1	6002	0	7368	1
539	1	1905	0	3271	1	4637	1	6003	0	7369	0
540	0	1906	0	3272	1	4638	1	6004	1	7370	1
541	0	1907	1	3273	0	4639	1	6005	1	7371	1
542	1	1908	0	3274	1	4640	1	6006	1	7372	1
543	0	1909	0	3275	1	4641	0	6007	0	7373	0
544	0	1910	0	3276	0	4642	0	6008	1	7374	0
545	1	1911	0	3277	1	4643	1	6009	1	7375	0
546	1	1912	1	3278	0	4644	0	6010	1	7376	0
547	0	1913	1	3279	0	4645	0	6011	0	7377	1
548	0	1914	1	3280	1	4646	1	6012	1	7378	1
549	1	1915	0	3281	0	4647	0	6013	0	7379	0
550	0	1916	0	3282	1	4648	0	6014	1	7380	1
551	1	1917	0	3283	1	4649	0	6015	1	7381	0
552	1	1918	0	3284	0	4650	1	6016	0	7382	0
553	0	1919	0	3285	1	4651	0	6017	1	7383	1
554	1	1920	1	3286	1	4652	1	6018	1	7384	1
555	0	1921	0	3287	0	4653	0	6019	0	7385	1
556	1	1922	1	3288	0	4654	1	6020	0	7386	1
557	0	1923	0	3289	1	4655	0	6021	0	7387	1
558	0	1924	1	3290	0	4656	1	6022	1	7388	1
559	1	1925	0	3291	1	4657	0	6023	0	7389	1
560	0	1926	1	3292	1	4658	1	6024	1	7390	0
561	1	1927	1	3293	0	4659	0	6025	0	7391	1

562	1	1928	0	3294	0	4660	1	6026	0	7392	1
563	1	1929	1	3295	0	4661	1	6027	0	7393	0
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565	0	1931	0	3297	1	4663	1	6029	1	7395	0
566	0	1932	1	3298	0	4664	0	6030	0	7396	1
567	1	1933	1	3299	0	4665	1	6031	1	7397	1
568	0	1934	0	3300	1	4666	1	6032	1	7398	0
569	1	1935	0	3301	0	4667	0	6033	1	7399	0
570	1	1936	0	3302	1	4668	0	6034	1	7400	0
571	0	1937	0	3303	1	4669	0	6035	0	7401	1
572	0	1938	0	3304	0	4670	1	6036	0	7402	0
573	0	1939	0	3305	0	4671	0	6037	0	7403	1
574	1	1940	0	3306	0	4672	1	6038	1	7404	0
575	1	1941	0	3307	0	4673	1	6039	1	7405	0
576	0	1942	1	3308	1	4674	1	6040	0	7406	1
577	0	1943	1	3309	0	4675	1	6041	1	7407	0
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579	0	1945	1	3311	0	4677	0	6043	1	7409	0
580	0	1946	0	3312	0	4678	0	6044	0	7410	1
581	0	1947	1	3313	1	4679	0	6045	0	7411	0
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583	0	1949	0	3315	0	4681	0	6047	0	7413	1
584	1	1950	0	3316	0	4682	1	6048	1	7414	0
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587	1	1953	0	3319	0	4685	1	6051	0	7417	0
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599	1	1965	1	3331	0	4697	0	6063	1	7429	0
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601	1	1967	0	3333	0	4699	0	6065	1	7431	1
602	1	1968	1	3334	0	4700	1	6066	0	7432	1
603	1	1969	0	3335	1	4701	1	6067	0	7433	1
604	0	1970	1	3336	0	4702	0	6068	1	7434	0
605	0	1971	1	3337	0	4703	0	6069	0	7435	0

606	0	1972	0	3338	0	4704	0	6070	1	7436	0
607	1	1973	0	3339	0	4705	0	6071	1	7437	1
608	0	1974	0	3340	0	4706	1	6072	0	7438	0
609	1	1975	0	3341	0	4707	0	6073	1	7439	1
610	0	1976	0	3342	1	4708	1	6074	0	7440	0
611	0	1977	0	3343	0	4709	0	6075	0	7441	0
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615	1	1981	1	3347	0	4713	1	6079	1	7445	1
616	0	1982	1	3348	0	4714	0	6080	0	7446	0
617	0	1983	0	3349	1	4715	0	6081	0	7447	1
618	0	1984	0	3350	0	4716	0	6082	1	7448	0
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620	1	1986	1	3352	0	4718	1	6084	1	7450	0
621	0	1987	1	3353	1	4719	0	6085	1	7451	1
622	0	1988	0	3354	0	4720	0	6086	1	7452	0
623	0	1989	1	3355	1	4721	0	6087	0	7453	0
624	0	1990	0	3356	1	4722	0	6088	1	7454	1
625	1	1991	0	3357	0	4723	1	6089	1	7455	0
626	1	1992	0	3358	0	4724	1	6090	0	7456	0
627	0	1993	1	3359	0	4725	0	6091	0	7457	0
628	0	1994	0	3360	0	4726	1	6092	1	7458	1
629	0	1995	0	3361	0	4727	0	6093	0	7459	1
630	0	1996	1	3362	1	4728	1	6094	0	7460	0
631	0	1997	1	3363	1	4729	0	6095	0	7461	1
632	0	1998	0	3364	0	4730	0	6096	0	7462	0
633	1	1999	0	3365	0	4731	0	6097	1	7463	1
634	1	2000	1	3366	0	4732	0	6098	0	7464	0
635	0	2001	0	3367	1	4733	0	6099	1	7465	0
636	1	2002	1	3368	1	4734	1	6100	0	7466	1
637	0	2003	1	3369	0	4735	1	6101	0	7467	0
638	0	2004	1	3370	0	4736	0	6102	1	7468	0
639	0	2005	0	3371	0	4737	1	6103	1	7469	0
640	0	2006	1	3372	0	4738	1	6104	1	7470	0
641	1	2007	1	3373	0	4739	0	6105	0	7471	0
642	1	2008	1	3374	1	4740	0	6106	1	7472	0
643	0	2009	0	3375	0	4741	0	6107	1	7473	1
644	1	2010	0	3376	0	4742	0	6108	1	7474	0
645	0	2011	1	3377	1	4743	0	6109	1	7475	0
646	0	2012	1	3378	0	4744	0	6110	1	7476	1
647	0	2013	1	3379	0	4745	1	6111	0	7477	1
648	0	2014	1	3380	0	4746	0	6112	1	7478	1
649	0	2015	0	3381	1	4747	1	6113	0	7479	0

650	0	2016	0	3382	1	4748	1	6114	1	7480	1
651	0	2017	0	3383	1	4749	0	6115	1	7481	0
652	1	2018	1	3384	0	4750	0	6116	1	7482	1
653	0	2019	0	3385	0	4751	1	6117	0	7483	0
654	1	2020	0	3386	0	4752	1	6118	1	7484	0
655	1	2021	0	3387	1	4753	0	6119	1	7485	0
656	1	2022	0	3388	0	4754	1	6120	0	7486	1
657	0	2023	0	3389	0	4755	0	6121	1	7487	0
658	0	2024	0	3390	0	4756	1	6122	1	7488	1
659	1	2025	1	3391	0	4757	0	6123	1	7489	0
660	0	2026	0	3392	1	4758	0	6124	1	7490	0
661	1	2027	1	3393	0	4759	1	6125	0	7491	0
662	1	2028	0	3394	0	4760	0	6126	0	7492	1
663	0	2029	0	3395	0	4761	1	6127	1	7493	1
664	1	2030	1	3396	1	4762	0	6128	1	7494	0
665	1	2031	1	3397	1	4763	0	6129	0	7495	1
666	1	2032	1	3398	0	4764	0	6130	1	7496	0
667	0	2033	1	3399	0	4765	1	6131	0	7497	1
668	0	2034	0	3400	0	4766	1	6132	1	7498	1
669	0	2035	0	3401	1	4767	0	6133	1	7499	0
670	0	2036	0	3402	0	4768	0	6134	0	7500	0
671	0	2037	1	3403	1	4769	0	6135	0	7501	0
672	1	2038	0	3404	0	4770	0	6136	1	7502	1
673	1	2039	0	3405	0	4771	1	6137	0	7503	1
674	0	2040	1	3406	1	4772	0	6138	1	7504	1
675	1	2041	0	3407	0	4773	0	6139	0	7505	0
676	1	2042	0	3408	1	4774	1	6140	0	7506	0
677	1	2043	0	3409	1	4775	0	6141	0	7507	0
678	0	2044	1	3410	0	4776	1	6142	0	7508	0
679	0	2045	0	3411	0	4777	1	6143	1	7509	0
680	1	2046	0	3412	0	4778	1	6144	0	7510	1
681	1	2047	1	3413	1	4779	0	6145	0	7511	1
682	1	2048	1	3414	1	4780	0	6146	1	7512	1
683	1	2049	0	3415	0	4781	0	6147	1	7513	1
684	1	2050	1	3416	0	4782	0	6148	0	7514	0
685	0	2051	0	3417	0	4783	0	6149	0	7515	1
686	0	2052	0	3418	1	4784	1	6150	1	7516	1
687	1	2053	1	3419	0	4785	1	6151	1	7517	0
688	1	2054	0	3420	1	4786	1	6152	1	7518	0
689	1	2055	0	3421	1	4787	0	6153	1	7519	1
690	0	2056	0	3422	1	4788	0	6154	1	7520	1
691	0	2057	1	3423	1	4789	0	6155	1	7521	1
692	0	2058	1	3424	1	4790	1	6156	0	7522	1
693	1	2059	0	3425	0	4791	1	6157	0	7523	1

694	1	2060	1	3426	0	4792	0	6158	1	7524	0
695	1	2061	0	3427	0	4793	1	6159	1	7525	1
696	1	2062	1	3428	1	4794	1	6160	1	7526	1
697	1	2063	0	3429	1	4795	1	6161	1	7527	1
698	1	2064	1	3430	0	4796	1	6162	0	7528	0
699	0	2065	1	3431	1	4797	0	6163	0	7529	1
700	0	2066	0	3432	0	4798	0	6164	0	7530	0
701	0	2067	0	3433	1	4799	1	6165	0	7531	0
702	0	2068	1	3434	0	4800	1	6166	1	7532	1
703	0	2069	0	3435	1	4801	0	6167	1	7533	0
704	0	2070	1	3436	1	4802	0	6168	1	7534	1
705	0	2071	0	3437	1	4803	1	6169	0	7535	0
706	0	2072	0	3438	0	4804	1	6170	0	7536	0
707	0	2073	0	3439	1	4805	0	6171	0	7537	1
708	1	2074	0	3440	1	4806	0	6172	1	7538	0
709	1	2075	1	3441	1	4807	1	6173	0	7539	0
710	0	2076	1	3442	1	4808	1	6174	1	7540	0
711	1	2077	0	3443	0	4809	1	6175	0	7541	1
712	0	2078	1	3444	0	4810	1	6176	1	7542	1
713	1	2079	1	3445	1	4811	0	6177	0	7543	0
714	1	2080	1	3446	0	4812	1	6178	1	7544	1
715	0	2081	0	3447	1	4813	0	6179	1	7545	0
716	0	2082	1	3448	1	4814	1	6180	1	7546	1
717	1	2083	0	3449	1	4815	1	6181	1	7547	0
718	1	2084	0	3450	0	4816	0	6182	0	7548	1
719	0	2085	1	3451	1	4817	0	6183	1	7549	1
720	0	2086	0	3452	1	4818	1	6184	0	7550	0
721	1	2087	0	3453	0	4819	0	6185	1	7551	0
722	0	2088	1	3454	1	4820	1	6186	1	7552	0
723	0	2089	0	3455	0	4821	1	6187	1	7553	1
724	1	2090	1	3456	0	4822	0	6188	1	7554	1
725	0	2091	1	3457	0	4823	1	6189	1	7555	1
726	1	2092	0	3458	1	4824	1	6190	0	7556	1
727	1	2093	0	3459	0	4825	0	6191	1	7557	0
728	1	2094	0	3460	1	4826	0	6192	0	7558	0
729	1	2095	1	3461	1	4827	1	6193	1	7559	1
730	1	2096	1	3462	0	4828	0	6194	0	7560	0
731	0	2097	0	3463	0	4829	1	6195	0	7561	0
732	0	2098	1	3464	1	4830	1	6196	1	7562	1
733	0	2099	0	3465	1	4831	0	6197	0	7563	1
734	0	2100	0	3466	0	4832	0	6198	0	7564	1
735	0	2101	0	3467	0	4833	1	6199	0	7565	0
736	1	2102	0	3468	1	4834	1	6200	1	7566	1
737	1	2103	1	3469	0	4835	0	6201	1	7567	0

738	1	2104	1	3470	0	4836	0	6202	0	7568	1
739	1	2105	0	3471	1	4837	0	6203	1	7569	1
740	0	2106	0	3472	0	4838	1	6204	1	7570	1
741	1	2107	0	3473	1	4839	1	6205	0	7571	0
742	1	2108	1	3474	1	4840	0	6206	0	7572	1
743	1	2109	0	3475	0	4841	1	6207	0	7573	0
744	1	2110	0	3476	0	4842	1	6208	1	7574	1
745	0	2111	1	3477	1	4843	1	6209	1	7575	0
746	0	2112	1	3478	0	4844	0	6210	0	7576	1
747	1	2113	0	3479	1	4845	1	6211	0	7577	0
748	0	2114	1	3480	1	4846	1	6212	1	7578	0
749	1	2115	1	3481	1	4847	1	6213	1	7579	0
750	1	2116	0	3482	1	4848	0	6214	1	7580	0
751	1	2117	0	3483	1	4849	1	6215	1	7581	0
752	0	2118	0	3484	1	4850	0	6216	0	7582	1
753	1	2119	1	3485	0	4851	1	6217	0	7583	1
754	1	2120	1	3486	1	4852	0	6218	1	7584	0
755	1	2121	0	3487	0	4853	0	6219	0	7585	1
756	1	2122	1	3488	0	4854	1	6220	0	7586	0
757	1	2123	0	3489	0	4855	0	6221	0	7587	1
758	0	2124	1	3490	1	4856	0	6222	0	7588	1
759	0	2125	0	3491	0	4857	0	6223	0	7589	0
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761	1	2127	0	3493	0	4859	1	6225	1	7591	0
762	0	2128	1	3494	1	4860	1	6226	1	7592	0
763	1	2129	0	3495	1	4861	1	6227	0	7593	1
764	1	2130	0	3496	1	4862	1	6228	1	7594	1
765	0	2131	1	3497	1	4863	0	6229	1	7595	0
766	1	2132	1	3498	0	4864	0	6230	0	7596	0
767	1	2133	0	3499	1	4865	1	6231	1	7597	1
768	1	2134	1	3500	1	4866	0	6232	0	7598	1
769	0	2135	1	3501	0	4867	0	6233	1	7599	1
770	0	2136	1	3502	1	4868	1	6234	0	7600	0
771	0	2137	0	3503	0	4869	0	6235	1	7601	1
772	0	2138	0	3504	0	4870	1	6236	1	7602	0
773	1	2139	0	3505	0	4871	0	6237	0	7603	1
774	1	2140	1	3506	1	4872	0	6238	1	7604	0
775	1	2141	0	3507	0	4873	1	6239	0	7605	1
776	0	2142	0	3508	1	4874	1	6240	1	7606	0
777	0	2143	0	3509	1	4875	1	6241	0	7607	1
778	0	2144	0	3510	1	4876	1	6242	0	7608	1
779	1	2145	1	3511	1	4877	1	6243	0	7609	1
780	1	2146	0	3512	1	4878	1	6244	1	7610	0
781	0	2147	1	3513	0	4879	0	6245	1	7611	0

782	1	2148	1	3514	1	4880	1	6246	1	7612	1
783	0	2149	0	3515	0	4881	0	6247	0	7613	0
784	1	2150	1	3516	1	4882	1	6248	0	7614	1
785	0	2151	1	3517	0	4883	0	6249	0	7615	1
786	1	2152	1	3518	0	4884	0	6250	0	7616	1
787	1	2153	0	3519	1	4885	0	6251	0	7617	0
788	0	2154	1	3520	0	4886	1	6252	1	7618	1
789	1	2155	1	3521	0	4887	1	6253	0	7619	1
790	0	2156	0	3522	0	4888	1	6254	0	7620	0
791	0	2157	1	3523	1	4889	0	6255	1	7621	1
792	0	2158	0	3524	1	4890	1	6256	1	7622	0
793	0	2159	1	3525	1	4891	1	6257	1	7623	0
794	0	2160	1	3526	0	4892	0	6258	0	7624	0
795	0	2161	0	3527	1	4893	0	6259	1	7625	0
796	0	2162	1	3528	0	4894	1	6260	0	7626	1
797	1	2163	0	3529	1	4895	0	6261	0	7627	0
798	0	2164	0	3530	1	4896	0	6262	1	7628	1
799	1	2165	0	3531	0	4897	0	6263	0	7629	0
800	1	2166	1	3532	0	4898	0	6264	0	7630	1
801	0	2167	0	3533	0	4899	1	6265	0	7631	0
802	0	2168	0	3534	1	4900	1	6266	1	7632	0
803	1	2169	1	3535	0	4901	0	6267	1	7633	1
804	0	2170	1	3536	0	4902	0	6268	0	7634	1
805	0	2171	0	3537	0	4903	1	6269	1	7635	0
806	0	2172	0	3538	1	4904	0	6270	0	7636	1
807	0	2173	1	3539	0	4905	1	6271	1	7637	1
808	0	2174	1	3540	1	4906	1	6272	0	7638	0
809	1	2175	0	3541	0	4907	1	6273	1	7639	1
810	1	2176	0	3542	1	4908	1	6274	1	7640	0
811	1	2177	1	3543	0	4909	1	6275	0	7641	0
812	0	2178	1	3544	1	4910	0	6276	1	7642	1
813	1	2179	1	3545	0	4911	1	6277	0	7643	0
814	0	2180	1	3546	1	4912	1	6278	0	7644	1
815	1	2181	1	3547	1	4913	0	6279	0	7645	1
816	0	2182	0	3548	0	4914	0	6280	0	7646	1
817	0	2183	1	3549	1	4915	1	6281	0	7647	1
818	0	2184	0	3550	0	4916	0	6282	1	7648	1
819	1	2185	1	3551	0	4917	0	6283	1	7649	0
820	1	2186	0	3552	0	4918	0	6284	0	7650	1
821	1	2187	1	3553	1	4919	0	6285	0	7651	1
822	1	2188	0	3554	0	4920	1	6286	1	7652	0
823	0	2189	0	3555	0	4921	0	6287	0	7653	1
824	0	2190	1	3556	0	4922	1	6288	0	7654	1
825	1	2191	0	3557	0	4923	1	6289	0	7655	0

826	0	2192	1	3558	1	4924	0	6290	1	7656	0
827	1	2193	1	3559	1	4925	0	6291	0	7657	1
828	0	2194	1	3560	0	4926	0	6292	0	7658	0
829	1	2195	1	3561	1	4927	0	6293	0	7659	0
830	0	2196	1	3562	0	4928	1	6294	0	7660	0
831	1	2197	1	3563	1	4929	1	6295	1	7661	1
832	0	2198	0	3564	1	4930	0	6296	0	7662	1
833	1	2199	1	3565	0	4931	1	6297	1	7663	0
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836	0	2202	0	3568	0	4934	1	6300	1	7666	0
837	1	2203	0	3569	0	4935	0	6301	1	7667	0
838	0	2204	0	3570	1	4936	1	6302	0	7668	0
839	0	2205	0	3571	0	4937	1	6303	1	7669	1
840	1	2206	0	3572	1	4938	1	6304	1	7670	1
841	1	2207	1	3573	0	4939	1	6305	0	7671	0
842	0	2208	1	3574	0	4940	0	6306	0	7672	0
843	0	2209	1	3575	1	4941	0	6307	0	7673	0
844	1	2210	1	3576	1	4942	1	6308	1	7674	0
845	0	2211	0	3577	1	4943	0	6309	0	7675	0
846	1	2212	0	3578	0	4944	1	6310	1	7676	0
847	1	2213	1	3579	1	4945	1	6311	0	7677	1
848	1	2214	0	3580	1	4946	1	6312	0	7678	0
849	0	2215	0	3581	1	4947	1	6313	1	7679	1
850	1	2216	1	3582	1	4948	1	6314	1	7680	1
851	1	2217	0	3583	0	4949	1	6315	0	7681	0
852	0	2218	0	3584	0	4950	1	6316	1	7682	1
853	1	2219	0	3585	1	4951	0	6317	1	7683	1
854	1	2220	0	3586	0	4952	1	6318	1	7684	1
855	0	2221	1	3587	1	4953	1	6319	0	7685	1
856	1	2222	1	3588	1	4954	0	6320	1	7686	1
857	1	2223	1	3589	1	4955	1	6321	1	7687	0
858	0	2224	1	3590	1	4956	1	6322	1	7688	0
859	0	2225	0	3591	1	4957	1	6323	0	7689	0
860	1	2226	1	3592	0	4958	0	6324	1	7690	1
861	0	2227	1	3593	0	4959	0	6325	0	7691	1
862	1	2228	1	3594	1	4960	0	6326	0	7692	0
863	1	2229	0	3595	1	4961	1	6327	0	7693	1
864	0	2230	1	3596	1	4962	0	6328	1	7694	1
865	0	2231	0	3597	1	4963	1	6329	1	7695	0
866	0	2232	1	3598	1	4964	1	6330	0	7696	0
867	1	2233	1	3599	0	4965	1	6331	1	7697	0
868	1	2234	0	3600	1	4966	0	6332	0	7698	1
869	1	2235	0	3601	1	4967	1	6333	0	7699	0

870	0	2236	0	3602	1	4968	1	6334	1	7700	1
871	0	2237	1	3603	0	4969	0	6335	0	7701	0
872	1	2238	1	3604	0	4970	1	6336	1	7702	0
873	0	2239	0	3605	0	4971	0	6337	0	7703	0
874	1	2240	1	3606	0	4972	0	6338	0	7704	0
875	1	2241	0	3607	1	4973	1	6339	1	7705	1
876	1	2242	1	3608	0	4974	1	6340	1	7706	0
877	0	2243	0	3609	1	4975	0	6341	0	7707	0
878	0	2244	1	3610	1	4976	0	6342	1	7708	0
879	0	2245	0	3611	1	4977	1	6343	0	7709	0
880	1	2246	0	3612	1	4978	0	6344	1	7710	1
881	0	2247	0	3613	1	4979	1	6345	1	7711	0
882	0	2248	1	3614	0	4980	0	6346	1	7712	0
883	0	2249	0	3615	0	4981	1	6347	0	7713	0
884	0	2250	0	3616	0	4982	0	6348	1	7714	1
885	1	2251	0	3617	0	4983	0	6349	1	7715	0
886	1	2252	0	3618	0	4984	1	6350	1	7716	1
887	1	2253	1	3619	1	4985	0	6351	0	7717	1
888	0	2254	0	3620	1	4986	1	6352	0	7718	0
889	1	2255	1	3621	0	4987	0	6353	0	7719	0
890	0	2256	0	3622	0	4988	1	6354	1	7720	0
891	0	2257	1	3623	1	4989	1	6355	1	7721	0
892	1	2258	1	3624	1	4990	1	6356	0	7722	1
893	1	2259	0	3625	1	4991	1	6357	1	7723	1
894	0	2260	1	3626	1	4992	0	6358	0	7724	0
895	1	2261	0	3627	0	4993	0	6359	1	7725	1
896	0	2262	0	3628	0	4994	1	6360	0	7726	0
897	0	2263	0	3629	0	4995	1	6361	0	7727	1
898	1	2264	1	3630	0	4996	1	6362	1	7728	0
899	0	2265	0	3631	1	4997	1	6363	0	7729	1
900	0	2266	1	3632	0	4998	0	6364	0	7730	0
901	0	2267	0	3633	1	4999	0	6365	0	7731	1
902	0	2268	1	3634	1	5000	1	6366	0	7732	1
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908	1	2274	1	3640	0	5006	0	6372	1	7738	0
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910	1	2276	0	3642	1	5008	0	6374	1	7740	1
911	0	2277	0	3643	0	5009	0	6375	1	7741	0
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913	1	2279	0	3645	0	5011	1	6377	1	7743	0

914	1	2280	1	3646	0	5012	1	6378	0	7744	1
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916	0	2282	1	3648	0	5014	0	6380	1	7746	0
917	0	2283	1	3649	0	5015	0	6381	0	7747	0
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919	0	2285	0	3651	1	5017	0	6383	0	7749	1
920	0	2286	0	3652	1	5018	0	6384	0	7750	0
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922	0	2288	1	3654	1	5020	0	6386	0	7752	1
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925	1	2291	1	3657	1	5023	0	6389	0	7755	0
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932	0	2298	1	3664	0	5030	0	6396	0	7762	0
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