

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

GUO-NIU HAN* AND YINING HU*

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

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{14} + z^{13} + z^{11} + z^{10} + z^8 + z^6 + z^2 + z + 1, \\ p_1(z) &= z^{23} + z^{22} + z^{15} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^5 + z^4 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{20} + z^{18} + z^{14} + z^{12} + z^{10} + z^8 + z^2 + 1, \\ p_3(z) &= z^{23} + z^{22} + z^{15} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^5 + z^4 + z^2 + z, \\ p_4(z) &= z^{22} + z^{13} + z^{12} + z^{11} + z^6 + z + 1, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{20} + z^{18} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^8 + z^6 + z^4 + z^2 + z + 1, \\ p_1(z) &= z^{23} + z^{22} + z^{15} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^5 + z^4 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{20} + z^{18} + z^{14} + z^{12} + z^{10} + z^8 + z^2 + 1, \\ p_3(z) &= z^{23} + z^{22} + z^{15} + z^{13} + z^{12} + z^{10} + z^9 + z^8 + z^7 + z^6 + z^5 + z^4 + z^2 + z, \\ p_4(z) &= z^{22} + z^{20} + z^{16} + z^{13} + z^{12} + z^{11} + z^6 + z^4 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

$$\begin{aligned} M_{n+1}(x) &= W_n(x) \cdot M_n(x), \\ W_{n+1}(x) &= M_n(x) \cdot W_n(x). \end{aligned}$$

Let $x := 1/z$. For each non-zero polynomial $P(z)$, define $\tilde{P}(x)$ to be $P(1/x)$. Then,

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

Comparing the definition of $M_n(x)$ with the definition of $P_n(x)$ and $Q_n(x)$, we see that

$$\begin{aligned} M_n(x)_{0,1} &= x^{d_n} \tilde{P}_{2^n-1}(x), \\ M_n(x)_{0,0} &= x^{d_n} \tilde{Q}_{2^n-1}(x), \end{aligned}$$

for some positive integer d_n . Hence,

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

Therefore, by the convergence theorem of continued fraction, the algebraicity of $\text{CF}(a, b)$ will be established if it is shown that both $M_{2^n}(x)_{0,1}$ and $M_{2^n}(x)_{0,0}$ converge to algebraic series in $\mathbb{F}_2[[x]]$.

Actually, we will prove that for all $0 \leq i, j \leq 1$ the four sequences $(M_{2^n}(x)_{i,j})_n$, $(M_{2^{n+1}}(x)_{i,j})_n$, $(W_{2^n}(x)_{i,j})_n$, and $(W_{2^{n+1}}(x)_{i,j})_n$ converge to algebraic series in $\mathbb{F}_2[[x]]$. For this purpose, we define four 2×2 matrices M^e, M^o, W^e, W^o as follows: For each $T \in \{M^e, M^o, W^e, W^o\}$ and $0 \leq i, j \leq 1$, $T_{i,j}$ is defined to be the unique solution in $\mathbb{F}_2[[x]]$ of the polynomial $\phi(T, i, j)$ under certain initial conditions; the polynomials $\phi(T, i, j)$ and initial conditions are given in Section 3. We will prove that these four matrices, whose components are algebraic by definition, are the limits of $(M_{2^n}(x))_n$, $(M_{2^{n+1}}(x))_n$, $(W_{2^n}(x))_n$, and $(W_{2^{n+1}}(x))_n$.

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

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

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

$$(2.9) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1000w]_2],$$

$$(2.10) \quad 0 = T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2],$$

$$(2.11) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.12) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

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

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

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

$$(2.16) \quad 0 = T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 1 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 1 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8189 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

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

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

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

$$(2.21) \quad + \tau(A(s, 1000)),$$

$$0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

$$(2.22) \quad + \tau(A(s, 1001)),$$

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

$$(2.23) \quad + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

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

$$(2.24) \quad + \tau(A(s, 1011)),$$

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

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

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

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

$$(2.27) \quad + \tau(A(s, 1000)),$$

$$0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101))$$

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

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

$$(2.29) \quad + \tau(A(s, 101)) + \tau(A(s, 1010)),$$

$$(2.30) \quad \begin{aligned} 1 &= \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 101)) \\ &\quad + \tau(A(s, 1011)), \end{aligned}$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{140}), E_{140}) = (A(i, 0^{16}), E_{16})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 70$, which turns out to be true. $\square$

In the following lemma, we express M_{2k} , M_{2k+1} , W_{2k} , and W_{2k+1} in terms of M^e , M^o , W^e , and W^o .

Lemma 2.3. *For all integer $k \geq 2$, and $u = 2^{2k-1}$,*

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

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

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

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

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

We give the proof of

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

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

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

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

$$\begin{aligned}q_0(x) &= x^{24} + x^{23} + x^{22} + x^{18} + x^{16} + x^{14} + x^{13} + x^{11} + x^{10} + x^6, \\ q_1(x) &= x^{23} + x^{22} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{12} + x^{11} + x^9 \\ &\quad + x^2 + x, \\ q_2(x) &= x^{24} + x^{22} + x^{16} + x^{14} + x^{12} + x^{10} + x^6 + x^4 + x^2 + 1, \\ q_3(x) &= x^{23} + x^{22} + x^{20} + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{12} + x^{11} + x^9 \\ &\quad + x^2 + x, \\ q_4(x) &= x^{24} + x^{23} + x^{18} + x^{13} + x^{12} + x^{11} + x^2.\end{aligned}$$

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

3. ANNEXE

All 16 polynomials are of the form

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

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{102} + x^{94} + x^{90} + x^{86} + x^{76} \\
&\quad + x^{74} + x^{72} + x^{70} + x^{62} + x^{60} + x^{58} + x^{56} + x^{42} + x^{40} + x^{38} + x^{30} \\
&\quad + x^{28} + x^{20} + x^{14} + x^{12}, \\
p_3(x) &= x^{112} + x^{108} + x^{106} + x^{102} + x^{88} + x^{86} + x^{76} + x^{72} + x^{66} + x^{64} + x^{60} \\
&\quad + x^{58} + x^{56} + x^{54} + x^{48} + x^{46} + x^{40} + x^{38} + x^{36} + x^{22} + x^{20} + x^{16} \\
&\quad + x^{14} + x^8, \\
p_6(x) &= x^{112} + x^{110} + x^{104} + x^{100} + x^{98} + x^{94} + x^{90} + x^{88} + x^{84} + x^{76} + x^{70} \\
&\quad + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{56} + x^{46} + x^{44} + x^{42} + x^{40} + x^{32} \\
&\quad + x^{26} + x^{24} + x^{20} + x^{18} + x^{14} + x^{12} + x^8 + x^6 + x^4 + 1, \\
p_9(x) &= x^{112} + x^{106} + x^{104} + x^{100} + x^{96} + x^{92} + x^{88} + x^{84} + x^{82} + x^{80} + x^{78} \\
&\quad + x^{76} + x^{74} + x^{62} + x^{52} + x^{50} + x^{42} + x^{38} + x^{30} + x^{28} + x^{24} + x^{22} \\
&\quad + x^{20} + x^{14} + x^4 + x^2, \\
p_{12}(x) &= x^{114} + x^{104} + x^{98} + x^{96} + x^{34} + x^{24} + x^{16} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{115} + x^{114} + x^{109} \\
&\quad + x^{108} + x^{107} + x^{105} + x^{102} + x^{99} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} \\
&\quad + x^{88} + x^{87} + x^{84} + x^{83} + x^{81} + x^{79} + x^{77} + x^{76} + x^{72} + x^{70} + x^{68} \\
&\quad + x^{66} + x^{63} + x^{62} + x^{61} + x^{60} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\
&\quad + x^{48} + x^{47} + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{33} \\
&\quad + x^{32} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{88} + x^{87} + x^{81} \\
&\quad + x^{79} + x^{78} + x^{77} + x^{76} + x^{72} + x^{71} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} \\
&\quad + x^{63} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} \\
&\quad + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{17} \\
&\quad + x^{16} + x^{14} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{109} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{87} \\
&\quad + x^{86} + x^{83} + x^{81} + x^{79} + x^{73} + x^{70} + x^{68} + x^{62} + x^{61} + x^{57} + x^{55} \\
&\quad + x^{53} + x^{50} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} \\
&\quad + x^{36} + x^{35} + x^{34} + x^{33} + x^{30} + x^{29} + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} \\
&\quad + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^6, \\
p_9(x) &= x^{123} + x^{120} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} + x^{111} + x^{109} + x^{107}
\end{aligned}$$

$$\begin{aligned}
& + x^{106} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{92} + x^{88} \\
& + x^{85} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} + x^{65} + x^{62} \\
& + x^{61} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{45} + x^{43} + x^{42} + x^{40} \\
& + x^{38} + x^{36} + x^{35} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} + x^{22} \\
& + x^{21} + x^{17} + x^{14} + x^{13} + x^7 + x^4 + x^3, \\
p_{12}(x) = & x^{126} + x^{125} + x^{121} + x^{120} + x^{118} + x^{116} + x^{110} + x^{109} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{98} + x^{96} + x^{46} + x^{45} + x^{41} + x^{40} + x^{38} + x^{36} + x^{26} \\
& + x^{25} + x^{21} + x^{20} + x^{18} + x^{16} + x^{14} + x^{13} + x^{10} + x^8 + x^6 + x^5 + x^2 \\
& + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{115} + x^{114} + x^{109} \\
& + x^{108} + x^{107} + x^{105} + x^{102} + x^{99} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} \\
& + x^{88} + x^{87} + x^{84} + x^{83} + x^{81} + x^{79} + x^{77} + x^{76} + x^{72} + x^{70} + x^{68} \\
& + x^{66} + x^{63} + x^{62} + x^{61} + x^{60} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} \\
& + x^{48} + x^{47} + x^{46} + x^{45} + x^{43} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} + x^{33} \\
& + x^{32} + x^{28} + x^{26} + x^{24}, \\
p_3(x) = & x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{88} + x^{87} + x^{81} \\
& + x^{79} + x^{78} + x^{77} + x^{76} + x^{72} + x^{71} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} \\
& + x^{63} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} \\
& + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{17} \\
& + x^{16} + x^{14} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) = & x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{109} + x^{104} \\
& + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{87} \\
& + x^{86} + x^{83} + x^{81} + x^{79} + x^{73} + x^{70} + x^{68} + x^{62} + x^{61} + x^{57} + x^{55} \\
& + x^{53} + x^{50} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} \\
& + x^{36} + x^{35} + x^{34} + x^{33} + x^{30} + x^{29} + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} \\
& + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^6, \\
p_9(x) = & x^{123} + x^{120} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} \\
& + x^{106} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{92} + x^{88} \\
& + x^{85} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} + x^{65} + x^{62} \\
& + x^{61} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{45} + x^{43} + x^{42} + x^{40} \\
& + x^{38} + x^{36} + x^{35} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} + x^{22} \\
& + x^{21} + x^{17} + x^{14} + x^{13} + x^7 + x^4 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{126} + x^{125} + x^{121} + x^{120} + x^{118} + x^{116} + x^{110} + x^{109} + x^{106} + x^{104} \\
& + x^{102} + x^{101} + x^{98} + x^{96} + x^{46} + x^{45} + x^{41} + x^{40} + x^{38} + x^{36} + x^{26} \\
& + x^{25} + x^{21} + x^{20} + x^{18} + x^{16} + x^{14} + x^{13} + x^{10} + x^8 + x^6 + x^5 + x^2 \\
& + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{134} + x^{132} + x^{128} + x^{124} + x^{120} + x^{118} + x^{116} + x^{112} + x^{110} \\
& + x^{104} + x^{102} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{84} + x^{82} + x^{78} + x^{76} \\
& + x^{70} + x^{66} + x^{60} + x^{58} + x^{56} + x^{54} + x^{52} + x^{50} + x^{48} + x^{46} + x^{38} \\
& + x^{36}, \\
p_3(x) = & x^{136} + x^{134} + x^{128} + x^{126} + x^{114} + x^{112} + x^{110} + x^{108} + x^{104} + x^{94} \\
& + x^{88} + x^{84} + x^{82} + x^{78} + x^{76} + x^{74} + x^{68} + x^{62} + x^{60} + x^{56} + x^{54} \\
& + x^{44} + x^{42} + x^{34} + x^{30} + x^{28} + x^{26} + x^{24} + x^{22} + x^{18} + x^{16} + x^{14} \\
& + x^8 + x^6, \\
p_6(x) = & x^{136} + x^{134} + x^{132} + x^{128} + x^{126} + x^{124} + x^{122} + x^{118} + x^{116} + x^{112} \\
& + x^{108} + x^{102} + x^{98} + x^{94} + x^{92} + x^{90} + x^{86} + x^{84} + x^{72} + x^{68} + x^{56} \\
& + x^{46} + x^{44} + x^{40} + x^{38} + x^{36} + x^{32} + x^{30} + x^{28} + x^{26} + x^{24} + x^{18} \\
& + x^{16} + x^{12} + x^{10} + x^8 + x^6 + 1, \\
p_9(x) = & x^{136} + x^{134} + x^{130} + x^{122} + x^{120} + x^{118} + x^{112} + x^{106} + x^{104} + x^{100} \\
& + x^{98} + x^{92} + x^{82} + x^{80} + x^{72} + x^{68} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} \\
& + x^{50} + x^{44} + x^{40} + x^{32} + x^{28} + x^{24} + x^{20} + x^{14} + x^{12} + x^4 + x^2, \\
p_{12}(x) = & x^{138} + x^{136} + x^{106} + x^{104} + x^{98} + x^{96} + x^{58} + x^{56} + x^{42} + x^{40} + x^{26} \\
& + x^{24} + x^{18} + x^{16} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{130} + x^{128} + x^{122} + x^{118} + x^{116} + x^{114} + x^{100} + x^{98} + x^{96} \\
& + x^{90} + x^{88} + x^{84} + x^{80} + x^{78} + x^{74} + x^{70} + x^{66} + x^{56} + x^{54} + x^{52} \\
& + x^{42} + x^{40} + x^{38} + x^{30} + x^{26} + x^{24} + x^{18} + x^{16} + x^{14} + x^{12}, \\
p_3(x) = & x^{136} + x^{134} + x^{132} + x^{120} + x^{110} + x^{108} + x^{104} + x^{100} + x^{98} + x^{96} \\
& + x^{94} + x^{76} + x^{74} + x^{72} + x^{68} + x^{64} + x^{50} + x^{48} + x^{46} + x^{38} + x^{34} \\
& + x^{32} + x^{30} + x^{28} + x^{26} + x^{18} + x^{16} + x^{14} + x^{10} + x^8, \\
p_6(x) = & x^{136} + x^{132} + x^{130} + x^{128} + x^{124} + x^{112} + x^{110} + x^{106} + x^{104} + x^{102} \\
& + x^{100} + x^{96} + x^{86} + x^{82} + x^{76} + x^{68} + x^{64} + x^{52} + x^{50} + x^{48} + x^{46} \\
& + x^{44} + x^{42} + x^{40} + x^{38} + x^{30} + x^{28} + x^{26} + x^{22} + x^{14} + x^{10} + x^6 \\
& + x^4 + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) &= x^{136} + x^{134} + x^{130} + x^{122} + x^{120} + x^{118} + x^{112} + x^{106} + x^{104} + x^{100} \\
&\quad + x^{98} + x^{92} + x^{82} + x^{80} + x^{72} + x^{68} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} \\
&\quad + x^{50} + x^{44} + x^{40} + x^{32} + x^{28} + x^{24} + x^{20} + x^{14} + x^{12} + x^4 + x^2, \\
p_{12}(x) &= x^{138} + x^{136} + x^{106} + x^{104} + x^{98} + x^{96} + x^{58} + x^{56} + x^{42} + x^{40} + x^{26} \\
&\quad + x^{24} + x^{18} + x^{16} + x^{10} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{122} + x^{121} + x^{120} + x^{117} + x^{114} + x^{112} + x^{109} \\
&\quad + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{101} + x^{99} + x^{97} + x^{96} \\
&\quad + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{84} + x^{83} + x^{81} + x^{77} + x^{75} + x^{74} \\
&\quad + x^{71} + x^{69} + x^{67} + x^{62} + x^{61} + x^{55} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} \\
&\quad + x^{39} + x^{36} + x^{35} + x^{33} + x^{29} + x^{25} + x^{23} + x^{20} + x^{18}, \\
p_3(x) &= x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{88} + x^{87} + x^{81} \\
&\quad + x^{79} + x^{78} + x^{77} + x^{76} + x^{72} + x^{71} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} \\
&\quad + x^{63} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} \\
&\quad + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{17} \\
&\quad + x^{16} + x^{14} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{109} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{87} \\
&\quad + x^{86} + x^{83} + x^{81} + x^{79} + x^{73} + x^{70} + x^{68} + x^{62} + x^{61} + x^{57} + x^{55} \\
&\quad + x^{53} + x^{50} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} \\
&\quad + x^{36} + x^{35} + x^{34} + x^{33} + x^{30} + x^{29} + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} \\
&\quad + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^6, \\
p_9(x) &= x^{123} + x^{120} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} \\
&\quad + x^{106} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{92} + x^{88} \\
&\quad + x^{85} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} + x^{65} + x^{62} \\
&\quad + x^{61} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{45} + x^{43} + x^{42} + x^{40} \\
&\quad + x^{38} + x^{36} + x^{35} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} + x^{22} \\
&\quad + x^{21} + x^{17} + x^{14} + x^{13} + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{126} + x^{125} + x^{121} + x^{120} + x^{118} + x^{116} + x^{110} + x^{109} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{98} + x^{96} + x^{46} + x^{45} + x^{41} + x^{40} + x^{38} + x^{36} + x^{26} \\
&\quad + x^{25} + x^{21} + x^{20} + x^{18} + x^{16} + x^{14} + x^{13} + x^{10} + x^8 + x^6 + x^5 + x^2 \\
&\quad + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{122} + x^{121} + x^{120} + x^{117} + x^{114} + x^{112} + x^{109} \\
&\quad + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{102} + x^{101} + x^{99} + x^{97} + x^{96} \\
&\quad + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{84} + x^{83} + x^{81} + x^{77} + x^{75} + x^{74} \\
&\quad + x^{71} + x^{69} + x^{67} + x^{62} + x^{61} + x^{55} + x^{51} + x^{50} + x^{49} + x^{48} + x^{46} \\
&\quad + x^{39} + x^{36} + x^{35} + x^{33} + x^{29} + x^{25} + x^{23} + x^{20} + x^{18}, \\
p_3(x) &= x^{117} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{97} + x^{96} + x^{94} + x^{93} + x^{92} + x^{88} + x^{87} + x^{81} \\
&\quad + x^{79} + x^{78} + x^{77} + x^{76} + x^{72} + x^{71} + x^{69} + x^{67} + x^{66} + x^{65} + x^{64} \\
&\quad + x^{63} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{41} + x^{40} + x^{38} + x^{36} + x^{35} \\
&\quad + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{17} \\
&\quad + x^{16} + x^{14} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{120} + x^{119} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{111} + x^{109} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} + x^{95} + x^{92} + x^{91} + x^{90} + x^{87} \\
&\quad + x^{86} + x^{83} + x^{81} + x^{79} + x^{73} + x^{70} + x^{68} + x^{62} + x^{61} + x^{57} + x^{55} \\
&\quad + x^{53} + x^{50} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} \\
&\quad + x^{36} + x^{35} + x^{34} + x^{33} + x^{30} + x^{29} + x^{28} + x^{25} + x^{23} + x^{21} + x^{20} \\
&\quad + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^6, \\
p_9(x) &= x^{123} + x^{120} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} + x^{111} + x^{109} + x^{107} \\
&\quad + x^{106} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} + x^{97} + x^{96} + x^{92} + x^{88} \\
&\quad + x^{85} + x^{84} + x^{82} + x^{80} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} + x^{65} + x^{62} \\
&\quad + x^{61} + x^{55} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{45} + x^{43} + x^{42} + x^{40} \\
&\quad + x^{38} + x^{36} + x^{35} + x^{34} + x^{31} + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} + x^{22} \\
&\quad + x^{21} + x^{17} + x^{14} + x^{13} + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{126} + x^{125} + x^{121} + x^{120} + x^{118} + x^{116} + x^{110} + x^{109} + x^{106} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{98} + x^{96} + x^{46} + x^{45} + x^{41} + x^{40} + x^{38} + x^{36} + x^{26} \\
&\quad + x^{25} + x^{21} + x^{20} + x^{18} + x^{16} + x^{14} + x^{13} + x^{10} + x^8 + x^6 + x^5 + x^2 \\
&\quad + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{112} + x^{108} + x^{104} + x^{100} + x^{96} + x^{86} + x^{84} + x^{82} + x^{78} + x^{72} \\
&\quad + x^{70} + x^{68} + x^{64} + x^{62} + x^{58} + x^{56} + x^{50} + x^{48} + x^{46} + x^{44} + x^{42} \\
&\quad + x^{38} + x^{36} + x^{32} + x^{30} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{112} + x^{100} + x^{96} + x^{88} + x^{76} + x^{72} + x^{68} + x^{60} + x^{58} + x^{54} + x^{52} \\
&\quad + x^{40} + x^{36} + x^{24} + x^{20} + x^{18} + x^{14} + x^{10} + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{112} + x^{108} + x^{104} + x^{102} + x^{100} + x^{94} + x^{92} + x^{90} + x^{88} + x^{76} + x^{64} \\
&\quad + x^{62} + x^{54} + x^{50} + x^{46} + x^{44} + x^{42} + x^{40} + x^{36} + x^{32} + x^{20} + x^{14} \\
&\quad + x^6 + 1, \\
p_9(x) &= x^{112} + x^{106} + x^{104} + x^{100} + x^{96} + x^{92} + x^{88} + x^{84} + x^{82} + x^{80} + x^{78} \\
&\quad + x^{76} + x^{74} + x^{62} + x^{52} + x^{50} + x^{42} + x^{38} + x^{30} + x^{28} + x^{24} + x^{22} \\
&\quad + x^{20} + x^{14} + x^4 + x^2, \\
p_{12}(x) &= x^{114} + x^{104} + x^{98} + x^{96} + x^{34} + x^{24} + x^{16} + x^8 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{120} + x^{118} + x^{114} + x^{113} + x^{111} + x^{110} \\
&\quad + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} \\
&\quad + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{88} + x^{87} + x^{86} + x^{85} + x^{82} \\
&\quad + x^{81} + x^{80} + x^{78} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} + x^{66} + x^{65} + x^{64} \\
&\quad + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{51} + x^{47} + x^{46} \\
&\quad + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{38} + x^{37} + x^{34} + x^{33} + x^{32} + x^{30} \\
&\quad + x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} + x^{17} + x^{12}, \\
p_3(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{116} + x^{114} + x^{110} + x^{108} + x^{105} + x^{104} \\
&\quad + x^{101} + x^{98} + x^{97} + x^{93} + x^{90} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} + x^{79} \\
&\quad + x^{78} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} \\
&\quad + x^{58} + x^{49} + x^{47} + x^{46} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} \\
&\quad + x^{35} + x^{34} + x^{32} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{19} + x^{16} + x^{15} \\
&\quad + x^{14} + x^{13} + x^{12} + x^8, \\
p_6(x) &= x^{124} + x^{123} + x^{121} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{107} + x^{106} \\
&\quad + x^{104} + x^{103} + x^{98} + x^{96} + x^{91} + x^{90} + x^{89} + x^{85} + x^{84} + x^{83} + x^{79} \\
&\quad + x^{78} + x^{77} + x^{76} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{64} + x^{63} + x^{61} \\
&\quad + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} \\
&\quad + x^{45} + x^{43} + x^{42} + x^{39} + x^{38} + x^{36} + x^{35} + x^{33} + x^{31} + x^{29} + x^{28} \\
&\quad + x^{27} + x^{25} + x^{23} + x^{22} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} \\
&\quad + x^{11} + x^9 + x^6 + x^5 + x^4 + x^2 + 1, \\
p_9(x) &= x^{122} + x^{121} + x^{118} + x^{116} + x^{110} + x^{109} + x^{105} + x^{104} + x^{102} + x^{100} \\
&\quad + x^{42} + x^{41} + x^{38} + x^{36} + x^{30} + x^{29} + x^{26} + x^{24} + x^{14} + x^{13} + x^9 \\
&\quad + x^8 + x^6 + x^4, \\
p_{12}(x) &= x^{126} + x^{125} + x^{122} + x^{120} + x^{106} + x^{105} + x^{101} + x^{100} + x^{98} + x^{96} \\
&\quad + x^{46} + x^{45} + x^{42} + x^{40} + x^{30} + x^{29} + x^{25} + x^{24} + x^{21} + x^{20} + x^{18} \\
&\quad + x^{16} + x^{10} + x^9 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{140} + x^{137} + x^{135} + x^{133} + x^{132} + x^{131} + x^{128} + x^{127} + x^{124} + x^{122} \\
&\quad + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{111} + x^{110} + x^{108} + x^{107} \\
&\quad + x^{104} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} \\
&\quad + x^{88} + x^{87} + x^{84} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{73} \\
&\quad + x^{72} + x^{64} + x^{61} + x^{56} + x^{54} + x^{53} + x^{51} + x^{47} + x^{46} + x^{44} + x^{42} \\
&\quad + x^{39} + x^{38} + x^{37} + x^{36} + x^{29} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{131} + x^{130} + x^{129} + x^{127} + x^{123} + x^{122} + x^{119} + x^{117} + x^{115} + x^{114} \\
&\quad + x^{113} + x^{112} + x^{111} + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{99} + x^{96} \\
&\quad + x^{95} + x^{94} + x^{92} + x^{89} + x^{88} + x^{87} + x^{85} + x^{83} + x^{80} + x^{79} + x^{78} \\
&\quad + x^{75} + x^{74} + x^{71} + x^{69} + x^{68} + x^{63} + x^{60} + x^{59} + x^{58} + x^{56} + x^{53} \\
&\quad + x^{52} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{34} \\
&\quad + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} + x^{22} + x^{21} + x^{19} + x^{17} + x^{16} + x^{15} \\
&\quad + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{134} + x^{132} + x^{128} + x^{126} + x^{124} + x^{118} + x^{112} + x^{104} + x^{102} + x^{100} \\
&\quad + x^{96} + x^{94} + x^{92} + x^{88} + x^{80} + x^{74} + x^{70} + x^{64} + x^{60} + x^{56} + x^{52} \\
&\quad + x^{48} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{22} + x^8 + x^6, \\
p_9(x) &= x^{137} + x^{136} + x^{134} + x^{133} + x^{132} + x^{128} + x^{121} + x^{119} + x^{118} + x^{114} \\
&\quad + x^{113} + x^{108} + x^{104} + x^{103} + x^{100} + x^{99} + x^{57} + x^{56} + x^{54} + x^{53} \\
&\quad + x^{52} + x^{48} + x^{40} + x^{39} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{28} + x^{25} \\
&\quad + x^{24} + x^{22} + x^{20} + x^{19} + x^{18} + x^{17} + x^{12} + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{140} + x^{124} + x^{116} + x^{104} + x^{96} + x^{60} + x^{36} + x^{28} + x^{24} + x^{20} + x^{16} \\
&\quad + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{116} + x^{113} + x^{112} + x^{109} + x^{106} \\
&\quad + x^{105} + x^{103} + x^{102} + x^{99} + x^{95} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} + x^{81} \\
&\quad + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{67} + x^{65} + x^{64} \\
&\quad + x^{63} + x^{58} + x^{56} + x^{55} + x^{54} + x^{51} + x^{45} + x^{44} + x^{43} + x^{38} + x^{37} \\
&\quad + x^{34} + x^{33} + x^{30} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} + x^{20} + x^{18}, \\
p_3(x) &= x^{115} + x^{114} + x^{113} + x^{110} + x^{109} + x^{106} + x^{102} + x^{101} + x^{99} + x^{97} \\
&\quad + x^{96} + x^{95} + x^{94} + x^{93} + x^{92} + x^{86} + x^{85} + x^{83} + x^{81} + x^{72} + x^{71} \\
&\quad + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} \\
&\quad + x^{56} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{44} + x^{43} + x^{41} + x^{38}
\end{aligned}$$

$$\begin{aligned}
& + x^{37} + x^{34} + x^{32} + x^{31} + x^{28} + x^{27} + x^{25} + x^{22} + x^{21} + x^{19} + x^{17} \\
& + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{100} + x^{98} + x^{92} + x^{80} \\
& + x^{76} + x^{74} + x^{72} + x^{68} + x^{60} + x^{54} + x^{50} + x^{44} + x^{40} + x^{38} + x^{30} \\
& + x^{22} + x^8 + x^6, \\
p_9(x) &= x^{121} + x^{120} + x^{118} + x^{114} + x^{113} + x^{108} + x^{104} + x^{103} + x^{100} + x^{99} \\
& + x^{41} + x^{40} + x^{38} + x^{34} + x^{33} + x^{28} + x^{25} + x^{23} + x^{22} + x^{20} + x^{19} \\
& + x^{18} + x^{17} + x^{12} + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{124} + x^{120} + x^{104} + x^{96} + x^{44} + x^{40} + x^{28} + x^{16} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} \\
& + x^{115} + x^{114} + x^{112} + x^{111} + x^{109} + x^{107} + x^{101} + x^{96} + x^{92} + x^{90} \\
& + x^{89} + x^{88} + x^{87} + x^{85} + x^{82} + x^{81} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} \\
& + x^{71} + x^{70} + x^{67} + x^{66} + x^{65} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{53} \\
& + x^{51} + x^{50} + x^{49} + x^{45} + x^{44} + x^{42} + x^{40} + x^{38} + x^{37} + x^{36} + x^{30}, \\
p_3(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{110} + x^{109} + x^{107} \\
& + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{95} + x^{93} + x^{92} + x^{91} + x^{88} + x^{87} \\
& + x^{85} + x^{83} + x^{81} + x^{80} + x^{76} + x^{75} + x^{71} + x^{65} + x^{64} + x^{63} + x^{62} \\
& + x^{58} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{35} + x^{33} + x^{32} \\
& + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{20} + x^{17} + x^{16} + x^{12}, \\
p_6(x) &= x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{112} + x^{110} + x^{109} \\
& + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{101} + x^{99} + x^{95} + x^{94} \\
& + x^{89} + x^{87} + x^{84} + x^{82} + x^{81} + x^{80} + x^{76} + x^{72} + x^{71} + x^{70} + x^{69} \\
& + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{51} + x^{50} + x^{49} \\
& + x^{48} + x^{46} + x^{43} + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{31} + x^{28} + x^{27} \\
& + x^{22} + x^{21} + x^{20} + x^{18} + x^{14} + x^{12} + x^{10} + x^6 + x^5 + x^2 + 1, \\
p_9(x) &= x^{122} + x^{121} + x^{118} + x^{116} + x^{110} + x^{109} + x^{105} + x^{104} + x^{102} + x^{100} \\
& + x^{42} + x^{41} + x^{38} + x^{36} + x^{30} + x^{29} + x^{26} + x^{24} + x^{14} + x^{13} + x^9 \\
& + x^8 + x^6 + x^4, \\
p_{12}(x) &= x^{126} + x^{125} + x^{122} + x^{120} + x^{106} + x^{105} + x^{101} + x^{100} + x^{98} + x^{96} \\
& + x^{46} + x^{45} + x^{42} + x^{40} + x^{30} + x^{29} + x^{25} + x^{24} + x^{21} + x^{20} + x^{18} \\
& + x^{16} + x^{10} + x^9 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{120} + x^{118} + x^{114} + x^{113} + x^{111} + x^{110} \\
&\quad + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} \\
&\quad + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{88} + x^{87} + x^{86} + x^{85} + x^{82} \\
&\quad + x^{81} + x^{80} + x^{78} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} + x^{66} + x^{65} + x^{64} \\
&\quad + x^{62} + x^{61} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{51} + x^{47} + x^{46} \\
&\quad + x^{45} + x^{44} + x^{43} + x^{40} + x^{39} + x^{38} + x^{37} + x^{34} + x^{33} + x^{32} + x^{30} \\
&\quad + x^{28} + x^{27} + x^{26} + x^{25} + x^{24} + x^{23} + x^{21} + x^{19} + x^{17} + x^{12}, \\
p_3(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{116} + x^{114} + x^{110} + x^{108} + x^{105} + x^{104} \\
&\quad + x^{101} + x^{98} + x^{97} + x^{93} + x^{90} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} + x^{79} \\
&\quad + x^{78} + x^{74} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} \\
&\quad + x^{58} + x^{49} + x^{47} + x^{46} + x^{43} + x^{42} + x^{41} + x^{40} + x^{39} + x^{37} + x^{36} \\
&\quad + x^{35} + x^{34} + x^{32} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{19} + x^{16} + x^{15} \\
&\quad + x^{14} + x^{13} + x^{12} + x^8, \\
p_6(x) &= x^{124} + x^{123} + x^{121} + x^{116} + x^{113} + x^{111} + x^{109} + x^{108} + x^{107} + x^{106} \\
&\quad + x^{104} + x^{103} + x^{98} + x^{96} + x^{91} + x^{90} + x^{89} + x^{85} + x^{84} + x^{83} + x^{79} \\
&\quad + x^{78} + x^{77} + x^{76} + x^{71} + x^{70} + x^{69} + x^{67} + x^{66} + x^{64} + x^{63} + x^{61} \\
&\quad + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} \\
&\quad + x^{45} + x^{43} + x^{42} + x^{39} + x^{38} + x^{36} + x^{35} + x^{33} + x^{31} + x^{29} + x^{28} \\
&\quad + x^{27} + x^{25} + x^{23} + x^{22} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} \\
&\quad + x^{11} + x^9 + x^6 + x^5 + x^4 + x^2 + 1, \\
p_9(x) &= x^{122} + x^{121} + x^{118} + x^{116} + x^{110} + x^{109} + x^{105} + x^{104} + x^{102} + x^{100} \\
&\quad + x^{42} + x^{41} + x^{38} + x^{36} + x^{30} + x^{29} + x^{26} + x^{24} + x^{14} + x^{13} + x^9 \\
&\quad + x^8 + x^6 + x^4, \\
p_{12}(x) &= x^{126} + x^{125} + x^{122} + x^{120} + x^{106} + x^{105} + x^{101} + x^{100} + x^{98} + x^{96} \\
&\quad + x^{46} + x^{45} + x^{42} + x^{40} + x^{30} + x^{29} + x^{25} + x^{24} + x^{21} + x^{20} + x^{18} \\
&\quad + x^{16} + x^{10} + x^9 + x^5 + x^4 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{120} + x^{119} + x^{118} + x^{116} + x^{113} + x^{112} + x^{109} + x^{106} \\
&\quad + x^{105} + x^{103} + x^{102} + x^{99} + x^{95} + x^{91} + x^{90} + x^{89} + x^{88} + x^{86} + x^{81} \\
&\quad + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{67} + x^{65} + x^{64} \\
&\quad + x^{63} + x^{58} + x^{56} + x^{55} + x^{54} + x^{51} + x^{45} + x^{44} + x^{43} + x^{38} + x^{37} \\
&\quad + x^{34} + x^{33} + x^{30} + x^{28} + x^{26} + x^{25} + x^{24} + x^{22} + x^{20} + x^{18}, \\
p_3(x) &= x^{115} + x^{114} + x^{113} + x^{110} + x^{109} + x^{106} + x^{102} + x^{101} + x^{99} + x^{97}
\end{aligned}$$

$$\begin{aligned}
& + x^{96} + x^{95} + x^{94} + x^{93} + x^{92} + x^{86} + x^{85} + x^{83} + x^{81} + x^{72} + x^{71} \\
& + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} \\
& + x^{56} + x^{55} + x^{52} + x^{51} + x^{49} + x^{48} + x^{47} + x^{44} + x^{43} + x^{41} + x^{38} \\
& + x^{37} + x^{34} + x^{32} + x^{31} + x^{28} + x^{27} + x^{25} + x^{22} + x^{21} + x^{19} + x^{17} \\
& + x^{16} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{100} + x^{98} + x^{92} + x^{80} \\
& + x^{76} + x^{74} + x^{72} + x^{68} + x^{60} + x^{54} + x^{50} + x^{44} + x^{40} + x^{38} + x^{30} \\
& + x^{22} + x^8 + x^6, \\
p_9(x) &= x^{121} + x^{120} + x^{118} + x^{114} + x^{113} + x^{108} + x^{104} + x^{103} + x^{100} + x^{99} \\
& + x^{41} + x^{40} + x^{38} + x^{34} + x^{33} + x^{28} + x^{25} + x^{23} + x^{22} + x^{20} + x^{19} \\
& + x^{18} + x^{17} + x^{12} + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{124} + x^{120} + x^{104} + x^{96} + x^{44} + x^{40} + x^{28} + x^{16} + x^8 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{140} + x^{137} + x^{135} + x^{133} + x^{132} + x^{131} + x^{128} + x^{127} + x^{124} + x^{122} \\
& + x^{120} + x^{119} + x^{116} + x^{115} + x^{113} + x^{111} + x^{110} + x^{108} + x^{107} \\
& + x^{104} + x^{102} + x^{101} + x^{99} + x^{98} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{90} \\
& + x^{88} + x^{87} + x^{84} + x^{83} + x^{82} + x^{80} + x^{79} + x^{78} + x^{77} + x^{75} + x^{73} \\
& + x^{72} + x^{64} + x^{61} + x^{56} + x^{54} + x^{53} + x^{51} + x^{47} + x^{46} + x^{44} + x^{42} \\
& + x^{39} + x^{38} + x^{37} + x^{36} + x^{29} + x^{28} + x^{26} + x^{24}, \\
p_3(x) &= x^{131} + x^{130} + x^{129} + x^{127} + x^{123} + x^{122} + x^{119} + x^{117} + x^{115} + x^{114} \\
& + x^{113} + x^{112} + x^{111} + x^{107} + x^{105} + x^{103} + x^{102} + x^{101} + x^{99} + x^{96} \\
& + x^{95} + x^{94} + x^{92} + x^{89} + x^{88} + x^{87} + x^{85} + x^{83} + x^{80} + x^{79} + x^{78} \\
& + x^{75} + x^{74} + x^{71} + x^{69} + x^{68} + x^{63} + x^{60} + x^{59} + x^{58} + x^{56} + x^{53} \\
& + x^{52} + x^{50} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{41} + x^{39} + x^{38} + x^{34} \\
& + x^{30} + x^{29} + x^{28} + x^{27} + x^{25} + x^{22} + x^{21} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{134} + x^{132} + x^{128} + x^{126} + x^{124} + x^{118} + x^{112} + x^{104} + x^{102} + x^{100} \\
& + x^{96} + x^{94} + x^{92} + x^{88} + x^{80} + x^{74} + x^{70} + x^{64} + x^{60} + x^{56} + x^{52} \\
& + x^{48} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{22} + x^8 + x^6, \\
p_9(x) &= x^{137} + x^{136} + x^{134} + x^{133} + x^{132} + x^{128} + x^{121} + x^{119} + x^{118} + x^{114} \\
& + x^{113} + x^{108} + x^{104} + x^{103} + x^{100} + x^{99} + x^{57} + x^{56} + x^{54} + x^{53} \\
& + x^{52} + x^{48} + x^{40} + x^{39} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{28} + x^{25} \\
& + x^{24} + x^{22} + x^{20} + x^{19} + x^{18} + x^{17} + x^{12} + x^8 + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{140} + x^{124} + x^{116} + x^{104} + x^{96} + x^{60} + x^{36} + x^{28} + x^{24} + x^{20} + x^{16}
\end{aligned}$$

$$+ x^8 + 1,$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{117} + x^{116} \\ &\quad + x^{115} + x^{114} + x^{112} + x^{111} + x^{109} + x^{107} + x^{101} + x^{96} + x^{92} + x^{90} \\ &\quad + x^{89} + x^{88} + x^{87} + x^{85} + x^{82} + x^{81} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} \\ &\quad + x^{71} + x^{70} + x^{67} + x^{66} + x^{65} + x^{59} + x^{58} + x^{57} + x^{56} + x^{54} + x^{53} \\ &\quad + x^{51} + x^{50} + x^{49} + x^{45} + x^{44} + x^{42} + x^{40} + x^{38} + x^{37} + x^{36} + x^{30}, \\ p_3(x) &= x^{122} + x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{110} + x^{109} + x^{107} \\ &\quad + x^{103} + x^{101} + x^{100} + x^{99} + x^{98} + x^{95} + x^{93} + x^{92} + x^{91} + x^{88} + x^{87} \\ &\quad + x^{85} + x^{83} + x^{81} + x^{80} + x^{76} + x^{75} + x^{71} + x^{65} + x^{64} + x^{63} + x^{62} \\ &\quad + x^{58} + x^{50} + x^{48} + x^{44} + x^{42} + x^{40} + x^{38} + x^{36} + x^{35} + x^{33} + x^{32} \\ &\quad + x^{31} + x^{30} + x^{29} + x^{28} + x^{26} + x^{20} + x^{17} + x^{16} + x^{12}, \\ p_6(x) &= x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{112} + x^{110} + x^{109} \\ &\quad + x^{108} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{101} + x^{99} + x^{95} + x^{94} \\ &\quad + x^{89} + x^{87} + x^{84} + x^{82} + x^{81} + x^{80} + x^{76} + x^{72} + x^{71} + x^{70} + x^{69} \\ &\quad + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{51} + x^{50} + x^{49} \\ &\quad + x^{48} + x^{46} + x^{43} + x^{38} + x^{36} + x^{34} + x^{33} + x^{32} + x^{31} + x^{28} + x^{27} \\ &\quad + x^{22} + x^{21} + x^{20} + x^{18} + x^{14} + x^{12} + x^{10} + x^6 + x^5 + x^2 + 1, \\ p_9(x) &= x^{122} + x^{121} + x^{118} + x^{116} + x^{110} + x^{109} + x^{105} + x^{104} + x^{102} + x^{100} \\ &\quad + x^{42} + x^{41} + x^{38} + x^{36} + x^{30} + x^{29} + x^{26} + x^{24} + x^{14} + x^{13} + x^9 \\ &\quad + x^8 + x^6 + x^4, \\ p_{12}(x) &= x^{126} + x^{125} + x^{122} + x^{120} + x^{106} + x^{105} + x^{101} + x^{100} + x^{98} + x^{96} \\ &\quad + x^{46} + x^{45} + x^{42} + x^{40} + x^{30} + x^{29} + x^{25} + x^{24} + x^{21} + x^{20} + x^{18} \\ &\quad + x^{16} + x^{10} + x^9 + x^5 + x^4 + x^2 + 1, \end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2048	[445, 1429]	4096	[6133, 2985]	6144	[7257, 4561]
1	[3, 4]	2049	[3598, 3599]	4097	[6134, 6135]	6145	[3512, 1654]
2	[5, 6]	2050	[1247, 3600]	4098	[6136, 6137]	6146	[461, 4566]
3	[7, 8]	2051	[1026, 3601]	4099	[5318, 141]	6147	[7521, 4911]
4	[9, 10]	2052	[3602, 1255]	4100	[6138, 6139]	6148	[7010, 4242]
5	[11, 12]	2053	[3603, 3347]	4101	[2710, 6140]	6149	[7228, 25]
6	[13, 14]	2054	[1194, 3604]	4102	[6141, 6142]	6150	[472, 1763]

7	[15, 16]	2055	[3605, 3606]	4103	[3018, 6143]	6151	[4570, 4517]
8	[17, 18]	2056	[3607, 3608]	4104	[6144, 2737]	6152	[348, 4000]
9	[19, 20]	2057	[3609, 3610]	4105	[2252, 6145]	6153	[3664, 5030]
10	[21, 22]	2058	[3611, 3612]	4106	[6146, 579]	6154	[4026, 299]
11	[23, 24]	2059	[3613, 3614]	4107	[6147, 3042]	6155	[449, 5096]
12	[25, 26]	2060	[3615, 3616]	4108	[3112, 2440]	6156	[1685, 7480]
13	[27, 28]	2061	[3617, 3618]	4109	[3105, 2352]	6157	[7466, 7505]
14	[29, 30]	2062	[3619, 3620]	4110	[3109, 5242]	6158	[3505, 5192]
15	[31, 32]	2063	[3621, 993]	4111	[6148, 5745]	6159	[4690, 65]
16	[33, 34]	2064	[3622, 3623]	4112	[2767, 6149]	6160	[7628, 1341]
17	[35, 36]	2065	[1639, 3624]	4113	[5393, 6150]	6161	[4933, 4232]
18	[37, 38]	2066	[3625, 3626]	4114	[56, 5559]	6162	[7173, 7244]
19	[39, 40]	2067	[3355, 3627]	4115	[6151, 2697]	6163	[7629, 4177]
20	[41, 42]	2068	[3628, 3629]	4116	[3225, 2699]	6164	[4914, 7584]
21	[43, 44]	2069	[3630, 3631]	4117	[6152, 5851]	6165	[4761, 4244]
22	[45, 46]	2070	[1012, 3632]	4118	[5729, 6153]	6166	[5113, 3926]
23	[47, 48]	2071	[3633, 3634]	4119	[832, 2673]	6167	[7575, 7630]
24	[49, 50]	2072	[3635, 3636]	4120	[2967, 1925]	6168	[4908, 3395]
25	[51, 52]	2073	[3637, 3638]	4121	[2005, 6154]	6169	[7631, 7632]
26	[53, 54]	2074	[3639, 1733]	4122	[826, 6155]	6170	[7633, 462]
27	[55, 56]	2075	[1292, 3640]	4123	[6156, 2469]	6171	[7634, 5206]
28	[57, 58]	2076	[3641, 3642]	4124	[6157, 6158]	6172	[7635, 7190]
29	[59, 60]	2077	[3643, 3644]	4125	[5688, 6159]	6173	[7636, 1855]
30	[61, 62]	2078	[3645, 3646]	4126	[915, 6141]	6174	[6959, 7411]
31	[63, 64]	2079	[3647, 345]	4127	[6160, 5406]	6175	[1204, 3661]
32	[65, 66]	2080	[3482, 3648]	4128	[2779, 6161]	6176	[7293, 7637]
33	[67, 68]	2081	[3649, 101]	4129	[602, 2693]	6177	[7053, 1538]
34	[69, 70]	2082	[1867, 1518]	4130	[2213, 6162]	6178	[7638, 7639]
35	[71, 72]	2083	[3650, 3651]	4131	[6140, 6163]	6179	[1134, 7546]
36	[73, 74]	2084	[3652, 3653]	4132	[6161, 6101]	6180	[4167, 7529]
37	[75, 76]	2085	[3654, 3655]	4133	[5983, 6164]	6181	[7640, 103]
38	[77, 78]	2086	[3656, 3657]	4134	[5464, 5509]	6182	[3949, 7641]
39	[79, 80]	2087	[286, 3658]	4135	[5861, 6165]	6183	[7301, 7642]
40	[81, 82]	2088	[3659, 3660]	4136	[5870, 6166]	6184	[7643, 7289]
41	[83, 84]	2089	[1227, 1664]	4137	[6053, 6167]	6185	[5199, 7644]
42	[85, 86]	2090	[3661, 3662]	4138	[6168, 651]	6186	[7396, 7645]
43	[87, 88]	2091	[3663, 3664]	4139	[2885, 615]	6187	[7554, 4966]
44	[89, 90]	2092	[1774, 3665]	4140	[6169, 6170]	6188	[4430, 7589]
45	[91, 92]	2093	[3666, 3441]	4141	[6171, 6172]	6189	[4705, 7646]
46	[93, 94]	2094	[3667, 3668]	4142	[6173, 2533]	6190	[7647, 7129]
47	[95, 96]	2095	[3669, 3670]	4143	[880, 6174]	6191	[7311, 7648]
48	[97, 98]	2096	[3671, 3672]	4144	[5778, 2392]	6192	[7649, 7647]
49	[99, 100]	2097	[1306, 3625]	4145	[623, 6175]	6193	[7650, 3966]
50	[101, 102]	2098	[3549, 3673]	4146	[6176, 6177]	6194	[7502, 1723]

51	[103, 104]	2099	[3674, 3675]	4147	[6178, 6179]	6195	[4716, 4299]
52	[105, 106]	2100	[3530, 3676]	4148	[6180, 780]	6196	[7526, 1771]
53	[107, 108]	2101	[3677, 3678]	4149	[6181, 6182]	6197	[102, 3834]
54	[109, 110]	2102	[3679, 1355]	4150	[6183, 6184]	6198	[7651, 3351]
55	[111, 112]	2103	[3680, 3681]	4151	[6185, 5974]	6199	[1114, 7063]
56	[113, 114]	2104	[3682, 3683]	4152	[6186, 6187]	6200	[7433, 4979]
57	[115, 116]	2105	[3684, 1276]	4153	[3090, 6133]	6201	[4508, 1189]
58	[117, 118]	2106	[3685, 3686]	4154	[2633, 6188]	6202	[1828, 1396]
59	[119, 120]	2107	[1041, 464]	4155	[2635, 2769]	6203	[7652, 4089]
60	[121, 122]	2108	[3687, 3688]	4156	[2993, 6189]	6204	[1245, 4337]
61	[123, 124]	2109	[3689, 3573]	4157	[6190, 219]	6205	[1607, 319]
62	[125, 126]	2110	[3690, 3691]	4158	[820, 6191]	6206	[7653, 3944]
63	[127, 128]	2111	[990, 3692]	4159	[2277, 6192]	6207	[7065, 3875]
64	[129, 130]	2112	[3693, 3694]	4160	[5472, 249]	6208	[7654, 7655]
65	[131, 132]	2113	[3695, 1251]	4161	[6193, 6194]	6209	[4223, 3841]
66	[133, 134]	2114	[3696, 1708]	4162	[2732, 2665]	6210	[7164, 7299]
67	[135, 136]	2115	[1186, 3697]	4163	[2872, 6195]	6211	[5175, 4416]
68	[137, 138]	2116	[3698, 3699]	4164	[5451, 6196]	6212	[1153, 7201]
69	[139, 140]	2117	[3700, 3701]	4165	[6197, 2202]	6213	[7170, 7518]
70	[141, 142]	2118	[3702, 3703]	4166	[6198, 6085]	6214	[1813, 3838]
71	[143, 144]	2119	[3704, 3705]	4167	[5433, 6199]	6215	[4483, 7122]
72	[145, 146]	2120	[3706, 3707]	4168	[2419, 6200]	6216	[5132, 7132]
73	[147, 148]	2121	[3708, 3709]	4169	[5573, 6201]	6217	[7648, 4840]
74	[149, 150]	2122	[3710, 3711]	4170	[5602, 3040]	6218	[392, 3622]
75	[151, 152]	2123	[3712, 3375]	4171	[6202, 3152]	6219	[7656, 7657]
76	[153, 154]	2124	[3713, 1263]	4172	[6203, 2368]	6220	[7091, 4872]
77	[155, 156]	2125	[3714, 3715]	4173	[6204, 6205]	6221	[7658, 7659]
78	[157, 158]	2126	[3716, 3717]	4174	[52, 6206]	6222	[1294, 3916]
79	[159, 160]	2127	[3718, 1625]	4175	[5585, 710]	6223	[4750, 7484]
80	[161, 162]	2128	[1092, 3719]	4176	[6207, 147]	6224	[3948, 7660]
81	[163, 164]	2129	[3720, 1091]	4177	[2193, 5784]	6225	[4195, 4497]
82	[165, 166]	2130	[3721, 349]	4178	[6208, 5940]	6226	[4406, 3403]
83	[167, 168]	2131	[3722, 3723]	4179	[5997, 6209]	6227	[7001, 7661]
84	[169, 170]	2132	[3724, 1471]	4180	[6210, 6211]	6228	[7585, 448]
85	[171, 172]	2133	[1483, 3725]	4181	[5865, 6212]	6229	[7269, 7260]
86	[173, 174]	2134	[3726, 89]	4182	[5466, 6213]	6230	[6984, 7662]
87	[175, 176]	2135	[3444, 3727]	4183	[6214, 6215]	6231	[1531, 3449]
88	[177, 178]	2136	[3728, 3729]	4184	[6216, 6217]	6232	[7663, 3747]
89	[179, 180]	2137	[3730, 3731]	4185	[196, 6218]	6233	[4832, 7664]
90	[181, 182]	2138	[1512, 3732]	4186	[510, 6219]	6234	[7665, 7666]
91	[183, 184]	2139	[3733, 3734]	4187	[3275, 6220]	6235	[7667, 7668]
92	[185, 186]	2140	[3735, 3736]	4188	[2427, 2381]	6236	[7669, 7324]
93	[187, 188]	2141	[3737, 3738]	4189	[899, 2384]	6237	[3808, 4463]
94	[189, 190]	2142	[3739, 3740]	4190	[5443, 6221]	6238	[7611, 3431]

95	[191, 192]	2143	[1604, 3741]	4191	[5341, 2616]	6239	[7670, 7226]
96	[193, 194]	2144	[3646, 3742]	4192	[6222, 2255]	6240	[7417, 7671]
97	[195, 196]	2145	[3743, 3744]	4193	[720, 5742]	6241	[4376, 3358]
98	[197, 198]	2146	[3745, 3746]	4194	[946, 6223]	6242	[4963, 3680]
99	[199, 200]	2147	[3747, 3748]	4195	[6192, 6224]	6243	[7281, 7078]
100	[201, 202]	2148	[3749, 3750]	4196	[5370, 6225]	6244	[4233, 281]
101	[203, 204]	2149	[3751, 3752]	4197	[754, 2109]	6245	[7672, 5]
102	[205, 206]	2150	[3753, 1318]	4198	[6226, 3055]	6246	[7673, 5019]
103	[207, 208]	2151	[3754, 3502]	4199	[2041, 515]	6247	[7674, 3947]
104	[209, 210]	2152	[3755, 3756]	4200	[5287, 6227]	6248	[74, 4381]
105	[211, 212]	2153	[3757, 3758]	4201	[6228, 6229]	6249	[1324, 257]
106	[213, 214]	2154	[3759, 3760]	4202	[5716, 5714]	6250	[7646, 4484]
107	[215, 216]	2155	[3761, 3762]	4203	[893, 5728]	6251	[3969, 4623]
108	[217, 218]	2156	[3763, 1562]	4204	[6230, 2884]	6252	[4707, 5026]
109	[219, 220]	2157	[3764, 3765]	4205	[6231, 5921]	6253	[4604, 4127]
110	[221, 222]	2158	[3766, 3767]	4206	[6232, 6233]	6254	[5037, 7545]
111	[223, 224]	2159	[3768, 3769]	4207	[557, 3254]	6255	[7062, 1454]
112	[225, 226]	2160	[3770, 3771]	4208	[6234, 6235]	6256	[4527, 7675]
113	[227, 228]	2161	[1168, 3772]	4209	[5926, 6236]	6257	[4786, 7166]
114	[229, 230]	2162	[3773, 3580]	4210	[6237, 6238]	6258	[7676, 7167]
115	[231, 232]	2163	[3774, 3775]	4211	[6239, 5859]	6259	[7677, 4997]
116	[233, 234]	2164	[3776, 1261]	4212	[6240, 5612]	6260	[406, 5171]
117	[235, 236]	2165	[3777, 3397]	4213	[6241, 3292]	6261	[7671, 4712]
118	[237, 238]	2166	[1065, 3778]	4214	[965, 6242]	6262	[7678, 4355]
119	[239, 240]	2167	[3779, 1632]	4215	[5932, 6243]	6263	[4773, 7479]
120	[241, 242]	2168	[1384, 3780]	4216	[5306, 725]	6264	[7679, 4575]
121	[243, 244]	2169	[3781, 3782]	4217	[6209, 5644]	6265	[7680, 4577]
122	[245, 246]	2170	[3783, 3784]	4218	[5537, 5569]	6266	[4940, 4431]
123	[247, 248]	2171	[3785, 3786]	4219	[2465, 2567]	6267	[3990, 3477]
124	[249, 250]	2172	[3787, 3788]	4220	[642, 5788]	6268	[4839, 7681]
125	[251, 252]	2173	[1372, 3789]	4221	[6244, 2799]	6269	[4250, 7682]
126	[253, 254]	2174	[3790, 3791]	4222	[6245, 6241]	6270	[7508, 1507]
127	[255, 256]	2175	[3792, 3793]	4223	[6246, 6247]	6271	[4270, 3571]
128	[257, 258]	2176	[3610, 1171]	4224	[5880, 251]	6272	[7578, 4122]
129	[259, 260]	2177	[3794, 3795]	4225	[6248, 3177]	6273	[4608, 285]
130	[261, 262]	2178	[3796, 3797]	4226	[3316, 6249]	6274	[4787, 7622]
131	[263, 264]	2179	[3798, 3799]	4227	[1922, 6250]	6275	[7608, 4974]
132	[265, 266]	2180	[3800, 3801]	4228	[2291, 6251]	6276	[7158, 7537]
133	[267, 268]	2181	[3802, 1473]	4229	[3104, 2433]	6277	[4820, 7683]
134	[269, 270]	2182	[3803, 1475]	4230	[6252, 1895]	6278	[7675, 7684]
135	[271, 272]	2183	[3804, 3805]	4231	[576, 529]	6279	[7685, 7271]
136	[273, 274]	2184	[3806, 3807]	4232	[6253, 6254]	6280	[6952, 4962]
137	[275, 276]	2185	[3344, 3808]	4233	[6255, 6256]	6281	[4780, 7437]
138	[277, 278]	2186	[1541, 3809]	4234	[6257, 5460]	6282	[5028, 7492]

139	[279, 280]	2187	[3810, 3811]	4235	[6258, 5462]	6283	[7327, 7592]
140	[281, 282]	2188	[3812, 3813]	4236	[6259, 6260]	6284	[7054, 7686]
141	[283, 284]	2189	[1090, 3814]	4237	[2907, 5951]	6285	[4702, 7687]
142	[285, 286]	2190	[1871, 3815]	4238	[138, 2478]	6286	[5207, 3961]
143	[287, 288]	2191	[3595, 3816]	4239	[156, 6222]	6287	[7177, 4260]
144	[289, 290]	2192	[3817, 3818]	4240	[1945, 2450]	6288	[7688, 4852]
145	[291, 292]	2193	[3819, 3341]	4241	[5665, 2808]	6289	[7404, 1394]
146	[293, 294]	2194	[3820, 3821]	4242	[6261, 6262]	6290	[7689, 1616]
147	[295, 296]	2195	[3648, 3822]	4243	[2857, 631]	6291	[7169, 7334]
148	[297, 298]	2196	[1147, 1072]	4244	[5963, 2268]	6292	[1487, 7690]
149	[299, 300]	2197	[3823, 3824]	4245	[6263, 6072]	6293	[1028, 3757]
150	[301, 302]	2198	[1875, 3825]	4246	[6264, 6265]	6294	[7691, 4747]
151	[303, 304]	2199	[3826, 3827]	4247	[5945, 6185]	6295	[4949, 7692]
152	[305, 306]	2200	[3828, 3829]	4248	[6266, 5442]	6296	[90, 7181]
153	[307, 308]	2201	[3830, 3831]	4249	[6267, 6268]	6297	[7693, 4493]
154	[309, 310]	2202	[3832, 3833]	4250	[6269, 6270]	6298	[7455, 7694]
155	[311, 312]	2203	[3834, 3835]	4251	[6271, 6272]	6299	[7695, 3515]
156	[313, 314]	2204	[1619, 3836]	4252	[2832, 6134]	6300	[4235, 3516]
157	[315, 316]	2205	[3634, 3837]	4253	[6273, 2170]	6301	[7696, 397]
158	[317, 318]	2206	[3838, 3839]	4254	[2575, 6274]	6302	[3668, 7258]
159	[319, 320]	2207	[3840, 1872]	4255	[2161, 6275]	6303	[3701, 7310]
160	[321, 322]	2208	[3841, 3842]	4256	[2939, 6276]	6304	[7199, 4683]
161	[323, 324]	2209	[3843, 3578]	4257	[5689, 741]	6305	[7472, 7609]
162	[325, 326]	2210	[3844, 3478]	4258	[646, 6277]	6306	[7697, 7313]
163	[327, 328]	2211	[3845, 3846]	4259	[6278, 6279]	6307	[4599, 7111]
164	[329, 330]	2212	[3847, 3848]	4260	[6068, 6280]	6308	[7662, 5197]
165	[331, 332]	2213	[3849, 3850]	4261	[5280, 5960]	6309	[4590, 7698]
166	[333, 334]	2214	[3851, 3852]	4262	[6281, 2050]	6310	[1220, 7629]
167	[335, 336]	2215	[3853, 3854]	4263	[2359, 6282]	6311	[4266, 7442]
168	[337, 338]	2216	[3855, 3856]	4264	[6175, 5350]	6312	[1622, 69]
169	[339, 340]	2217	[3857, 3858]	4265	[5434, 6264]	6313	[4187, 7399]
170	[341, 342]	2218	[1338, 3700]	4266	[951, 862]	6314	[4899, 1623]
171	[343, 344]	2219	[3859, 3860]	4267	[6084, 6283]	6315	[3756, 7075]
172	[345, 346]	2220	[3861, 3862]	4268	[6284, 6171]	6316	[4005, 495]
173	[347, 348]	2221	[3863, 3864]	4269	[1896, 2435]	6317	[7503, 4249]
174	[349, 350]	2222	[3865, 3866]	4270	[6285, 3259]	6318	[7699, 1410]
175	[351, 352]	2223	[3867, 3868]	4271	[3320, 6286]	6319	[1069, 3963]
176	[353, 354]	2224	[3869, 3870]	4272	[6287, 6288]	6320	[4532, 7577]
177	[355, 356]	2225	[3871, 3872]	4273	[5781, 6289]	6321	[7700, 7553]
178	[357, 358]	2226	[3873, 3874]	4274	[3255, 6290]	6322	[7701, 7691]
179	[359, 360]	2227	[3875, 3876]	4275	[6291, 6292]	6323	[3982, 7702]
180	[361, 362]	2228	[1602, 1101]	4276	[6293, 6040]	6324	[7032, 7703]
181	[363, 364]	2229	[441, 3877]	4277	[1894, 6294]	6325	[3390, 4629]
182	[365, 366]	2230	[3878, 3879]	4278	[6295, 6296]	6326	[7704, 7043]

183	[367, 368]	2231	[3880, 3881]	4279	[5308, 1891]	6327	[1567, 7351]
184	[369, 370]	2232	[3882, 3883]	4280	[6297, 2681]	6328	[4721, 7555]
185	[371, 372]	2233	[1682, 3884]	4281	[2340, 2474]	6329	[3524, 1458]
186	[373, 374]	2234	[3885, 3886]	4282	[6298, 5991]	6330	[4394, 7426]
187	[375, 376]	2235	[3887, 3888]	4283	[6299, 6300]	6331	[30, 1662]
188	[377, 378]	2236	[1342, 1305]	4284	[5842, 6301]	6332	[7414, 7045]
189	[379, 380]	2237	[3889, 3890]	4285	[6302, 2869]	6333	[7524, 4725]
190	[381, 382]	2238	[3891, 1066]	4286	[6303, 6304]	6334	[7705, 7706]
191	[383, 384]	2239	[3892, 3893]	4287	[6055, 6173]	6335	[7564, 4526]
192	[385, 386]	2240	[3894, 3895]	4288	[6305, 6306]	6336	[7664, 4641]
193	[387, 388]	2241	[3896, 1242]	4289	[5933, 6307]	6337	[4347, 7707]
194	[389, 390]	2242	[3407, 1769]	4290	[6243, 5609]	6338	[5086, 1048]
195	[391, 392]	2243	[3897, 3898]	4291	[5873, 6138]	6339	[1657, 4016]
196	[393, 394]	2244	[3707, 3899]	4292	[6308, 6309]	6340	[7364, 7471]
197	[395, 396]	2245	[3900, 1610]	4293	[2357, 6310]	6341	[7708, 7709]
198	[397, 398]	2246	[3901, 3902]	4294	[3302, 6311]	6342	[423, 7604]
199	[399, 400]	2247	[1275, 1496]	4295	[6312, 2976]	6343	[3850, 473]
200	[401, 402]	2248	[3903, 1789]	4296	[6313, 6314]	6344	[7710, 4792]
201	[403, 404]	2249	[3904, 3905]	4297	[6315, 5352]	6345	[1802, 4714]
202	[405, 406]	2250	[3906, 3907]	4298	[6316, 6317]	6346	[4288, 4142]
203	[407, 408]	2251	[3908, 3533]	4299	[6318, 5789]	6347	[3575, 4934]
204	[409, 410]	2252	[3909, 3910]	4300	[2243, 6319]	6348	[3732, 3373]
205	[411, 412]	2253	[3911, 1690]	4301	[6320, 6321]	6349	[5051, 7004]
206	[413, 414]	2254	[3912, 3913]	4302	[6322, 6323]	6350	[7046, 4753]
207	[104, 415]	2255	[3914, 3915]	4303	[6324, 6325]	6351	[7711, 3652]
208	[416, 417]	2256	[3916, 3917]	4304	[6326, 5319]	6352	[4650, 7712]
209	[418, 419]	2257	[3918, 293]	4305	[6327, 6328]	6353	[7644, 5198]
210	[420, 421]	2258	[3919, 1158]	4306	[6329, 6330]	6354	[7713, 4257]
211	[422, 423]	2259	[3920, 3921]	4307	[942, 5866]	6355	[4795, 3639]
212	[424, 425]	2260	[3424, 3922]	4308	[6206, 2274]	6356	[7583, 3941]
213	[426, 427]	2261	[1842, 3923]	4309	[895, 733]	6357	[7326, 7285]
214	[428, 429]	2262	[3924, 1717]	4310	[6331, 868]	6358	[7714, 4418]
215	[430, 431]	2263	[3788, 3925]	4311	[2965, 6332]	6359	[7625, 7715]
216	[432, 433]	2264	[3926, 3927]	4312	[6333, 6334]	6360	[7716, 7153]
217	[434, 435]	2265	[3928, 273]	4313	[5239, 5556]	6361	[7717, 4135]
218	[436, 437]	2266	[3929, 3930]	4314	[6242, 6335]	6362	[4137, 7665]
219	[438, 439]	2267	[3931, 3932]	4315	[6336, 2600]	6363	[3778, 7667]
220	[440, 441]	2268	[326, 3933]	4316	[6337, 6338]	6364	[7500, 7718]
221	[442, 443]	2269	[3934, 3935]	4317	[867, 6339]	6365	[4617, 7487]
222	[444, 445]	2270	[3626, 3936]	4318	[3210, 870]	6366	[7719, 7643]
223	[446, 447]	2271	[3937, 3938]	4319	[3212, 8]	6367	[4366, 4547]
224	[448, 449]	2272	[3939, 3940]	4320	[6340, 5512]	6368	[7599, 7720]
225	[450, 451]	2273	[3941, 3942]	4321	[6341, 745]	6369	[6961, 5195]
226	[452, 453]	2274	[3555, 3943]	4322	[5359, 143]	6370	[7721, 4955]

227	[454, 455]	2275	[3944, 3945]	4323	[6342, 6343]	6371	[364, 4192]
228	[456, 457]	2276	[3946, 1215]	4324	[5948, 2987]	6372	[4578, 4710]
229	[458, 459]	2277	[3947, 3948]	4325	[6344, 6345]	6373	[4498, 7722]
230	[460, 461]	2278	[1111, 3949]	4326	[1997, 2574]	6374	[4627, 7406]
231	[462, 463]	2279	[3950, 3951]	4327	[5618, 197]	6375	[3432, 7634]
232	[464, 465]	2280	[3952, 1404]	4328	[2520, 6346]	6376	[7136, 1138]
233	[466, 467]	2281	[3953, 3954]	4329	[6347, 2766]	6377	[1499, 7083]
234	[468, 469]	2282	[3955, 3956]	4330	[2627, 5542]	6378	[7566, 7249]
235	[470, 83]	2283	[3957, 3958]	4331	[6348, 6313]	6379	[1470, 1367]
236	[471, 472]	2284	[3959, 3960]	4332	[6349, 6350]	6380	[7393, 4500]
237	[473, 474]	2285	[3961, 1580]	4333	[6351, 6352]	6381	[7447, 4502]
238	[475, 476]	2286	[3962, 1129]	4334	[5436, 6353]	6382	[7723, 3605]
239	[477, 478]	2287	[3963, 315]	4335	[6354, 2494]	6383	[5018, 4816]
240	[479, 480]	2288	[3964, 3965]	4336	[5833, 2559]	6384	[4267, 7485]
241	[481, 482]	2289	[3966, 3967]	4337	[5809, 6355]	6385	[356, 3693]
242	[483, 484]	2290	[3968, 3969]	4338	[6356, 5798]	6386	[7101, 7457]
243	[485, 486]	2291	[3970, 1810]	4339	[6357, 6358]	6387	[7724, 1131]
244	[487, 488]	2292	[3971, 1859]	4340	[3249, 3077]	6388	[4803, 5177]
245	[489, 490]	2293	[3972, 3973]	4341	[6163, 6359]	6389	[1634, 7725]
246	[491, 492]	2294	[3974, 3975]	4342	[6360, 6361]	6390	[5189, 7726]
247	[493, 494]	2295	[3786, 3976]	4343	[6362, 6363]	6391	[3644, 7685]
248	[495, 496]	2296	[3977, 3978]	4344	[6364, 6365]	6392	[7727, 7728]
249	[497, 498]	2297	[3979, 3806]	4345	[2184, 5659]	6393	[4446, 7494]
250	[24, 499]	2298	[1728, 3980]	4346	[2122, 3098]	6394	[3746, 4368]
251	[500, 501]	2299	[3981, 3982]	4347	[5653, 2797]	6395	[4082, 5052]
252	[502, 446]	2300	[3983, 3984]	4348	[5636, 6366]	6396	[1674, 1383]
253	[503, 504]	2301	[3985, 3986]	4349	[6306, 6367]	6397	[7231, 7729]
254	[505, 506]	2302	[3987, 3704]	4350	[2910, 5649]	6398	[7730, 5042]
255	[507, 508]	2303	[3438, 3988]	4351	[6368, 3218]	6399	[3378, 1795]
256	[509, 510]	2304	[3989, 3990]	4352	[6369, 6370]	6400	[1124, 4079]
257	[511, 512]	2305	[1135, 1706]	4353	[538, 6371]	6401	[3996, 5190]
258	[513, 514]	2306	[3991, 3992]	4354	[5329, 5900]	6402	[1024, 1582]
259	[515, 516]	2307	[3993, 3994]	4355	[6372, 1970]	6403	[7731, 4870]
260	[517, 518]	2308	[3995, 3996]	4356	[6373, 6374]	6404	[7626, 4999]
261	[519, 520]	2309	[3997, 3998]	4357	[6375, 5533]	6405	[1778, 7732]
262	[521, 522]	2310	[1163, 3999]	4358	[5431, 5972]	6406	[3563, 6986]
263	[523, 524]	2311	[4000, 4001]	4359	[6376, 906]	6407	[64, 4972]
264	[525, 526]	2312	[4002, 4003]	4360	[598, 2915]	6408	[7725, 1160]
265	[527, 528]	2313	[1438, 4004]	4361	[6131, 6377]	6409	[7733, 7038]
266	[529, 530]	2314	[1661, 4005]	4362	[5837, 3004]	6410	[3553, 6956]
267	[531, 532]	2315	[332, 4006]	4363	[2929, 6378]	6411	[7734, 4197]
268	[533, 534]	2316	[4007, 4008]	4364	[5949, 5928]	6412	[4569, 7544]
269	[535, 536]	2317	[4009, 4010]	4365	[782, 5720]	6413	[7344, 7735]
270	[537, 538]	2318	[4011, 1113]	4366	[3300, 6379]	6414	[366, 7368]

271	[539, 540]	2319	[4012, 4013]	4367	[5353, 5457]	6415	[7377, 7736]
272	[541, 542]	2320	[4014, 4015]	4368	[6380, 6381]	6416	[1170, 7737]
273	[543, 544]	2321	[4016, 4017]	4369	[2524, 2685]	6417	[7738, 7580]
274	[545, 546]	2322	[4018, 4019]	4370	[2305, 6267]	6418	[1754, 7739]
275	[547, 548]	2323	[1346, 4020]	4371	[6382, 6383]	6419	[4129, 7070]
276	[549, 550]	2324	[4021, 4022]	4372	[5463, 6384]	6420	[7740, 7452]
277	[551, 552]	2325	[4023, 4024]	4373	[178, 6385]	6421	[1573, 7714]
278	[553, 229]	2326	[4025, 4026]	4374	[1888, 5348]	6422	[7125, 4719]
279	[554, 555]	2327	[4027, 1278]	4375	[6386, 5336]	6423	[7456, 311]
280	[556, 557]	2328	[4028, 4029]	4376	[6387, 5639]	6424	[7687, 7530]
281	[558, 559]	2329	[4030, 4031]	4377	[669, 5708]	6425	[296, 3889]
282	[560, 561]	2330	[4032, 4033]	4378	[6388, 2626]	6426	[7741, 7081]
283	[562, 563]	2331	[4034, 1546]	4379	[2297, 2183]	6427	[7478, 497]
284	[564, 565]	2332	[4035, 1757]	4380	[922, 5953]	6428	[5216, 7742]
285	[566, 567]	2333	[4036, 4037]	4381	[5477, 6389]	6429	[7630, 7743]
286	[568, 569]	2334	[4038, 1585]	4382	[5937, 5766]	6430	[7288, 3764]
287	[570, 571]	2335	[4039, 3849]	4383	[6379, 6390]	6431	[4309, 1205]
288	[572, 573]	2336	[4040, 4041]	4384	[6391, 6278]	6432	[7220, 3708]
289	[214, 574]	2337	[4042, 4043]	4385	[5233, 5657]	6433	[4116, 1456]
290	[575, 576]	2338	[4044, 4045]	4386	[6392, 2642]	6434	[5148, 1238]
291	[577, 578]	2339	[290, 4046]	4387	[2787, 1948]	6435	[5205, 7744]
292	[579, 580]	2340	[4047, 1019]	4388	[6393, 6394]	6436	[7603, 7652]
293	[581, 582]	2341	[4048, 4049]	4389	[6395, 5482]	6437	[7743, 4087]
294	[583, 584]	2342	[1426, 4050]	4390	[2215, 761]	6438	[4818, 432]
295	[585, 586]	2343	[4051, 91]	4391	[6396, 2527]	6439	[272, 7745]
296	[587, 588]	2344	[4052, 4053]	4392	[5468, 6397]	6440	[7259, 1108]
297	[589, 590]	2345	[3692, 3900]	4393	[6398, 6351]	6441	[3818, 1700]
298	[591, 592]	2346	[1102, 1460]	4394	[2321, 6327]	6442	[4544, 7746]
299	[593, 594]	2347	[1282, 4054]	4395	[807, 6399]	6443	[80, 7747]
300	[595, 596]	2348	[4055, 4056]	4396	[6400, 6401]	6444	[7735, 1702]
301	[597, 598]	2349	[3462, 4057]	4397	[6402, 6073]	6445	[1141, 389]
302	[599, 600]	2350	[4058, 4059]	4398	[6403, 2998]	6446	[7468, 4183]
303	[601, 602]	2351	[1800, 4060]	4399	[6142, 6404]	6447	[7748, 7221]
304	[603, 604]	2352	[4061, 4062]	4400	[5535, 6405]	6448	[3784, 1740]
305	[605, 606]	2353	[4063, 4064]	4401	[614, 910]	6449	[7749, 1630]
306	[607, 608]	2354	[4065, 4066]	4402	[2024, 6406]	6450	[7692, 407]
307	[609, 610]	2355	[4067, 1373]	4403	[32, 6407]	6451	[3416, 3556]
308	[611, 612]	2356	[4068, 4069]	4404	[5486, 6408]	6452	[4606, 6994]
309	[613, 614]	2357	[3374, 4070]	4405	[6409, 5313]	6453	[4875, 7750]
310	[615, 616]	2358	[4071, 4072]	4406	[6410, 5229]	6454	[3456, 409]
311	[617, 618]	2359	[334, 19]	4407	[5757, 1889]	6455	[4452, 4937]
312	[619, 223]	2360	[4073, 500]	4408	[6411, 6412]	6456	[4329, 7751]
313	[620, 621]	2361	[4074, 4075]	4409	[2999, 5699]	6457	[4969, 1094]
314	[622, 623]	2362	[4076, 4077]	4410	[2353, 5996]	6458	[7752, 7018]

315	[624, 622]	2363	[1403, 4078]	4411	[5528, 6077]	6459	[4713, 1154]
316	[625, 626]	2364	[4079, 4080]	4412	[6413, 5693]	6460	[7753, 4395]
317	[627, 628]	2365	[4081, 4082]	4413	[6414, 5724]	6461	[7597, 4210]
318	[629, 630]	2366	[4083, 4084]	4414	[5258, 6415]	6462	[7361, 7673]
319	[631, 632]	2367	[4085, 4086]	4415	[677, 5678]	6463	[7754, 7674]
320	[633, 634]	2368	[4087, 4088]	4416	[3226, 6416]	6464	[4386, 3863]
321	[635, 636]	2369	[4089, 4061]	4417	[6417, 3185]	6465	[4531, 7755]
322	[637, 638]	2370	[4090, 4091]	4418	[2473, 5923]	6466	[7483, 7756]
323	[639, 640]	2371	[4092, 1099]	4419	[6418, 2327]	6467	[4516, 7705]
324	[641, 642]	2372	[3517, 4093]	4420	[2062, 6419]	6468	[7150, 7047]
325	[643, 644]	2373	[4094, 3914]	4421	[6420, 6152]	6469	[7152, 1469]
326	[645, 646]	2374	[4095, 1494]	4422	[6421, 6422]	6470	[7645, 7076]
327	[647, 648]	2375	[4096, 4097]	4423	[6423, 6424]	6471	[4255, 289]
328	[649, 650]	2376	[4098, 4099]	4424	[5924, 2113]	6472	[7757, 7758]
329	[651, 652]	2377	[1468, 4100]	4425	[198, 6425]	6473	[3797, 1742]
330	[653, 654]	2378	[4101, 3929]	4426	[3253, 5221]	6474	[7464, 7669]
331	[655, 656]	2379	[4102, 4103]	4427	[3086, 6426]	6475	[7751, 4745]
332	[657, 658]	2380	[4104, 4105]	4428	[6427, 151]	6476	[7759, 4797]
333	[659, 660]	2381	[362, 4106]	4429	[2229, 6428]	6477	[4379, 1156]
334	[661, 41]	2382	[4107, 1673]	4430	[6429, 6430]	6478	[4325, 7527]
335	[662, 663]	2383	[1720, 4108]	4431	[5746, 2584]	6479	[7668, 456]
336	[664, 665]	2384	[1716, 4109]	4432	[2137, 2974]	6480	[486, 5106]
337	[666, 667]	2385	[1718, 4110]	4433	[2539, 6431]	6481	[3370, 7760]
338	[668, 669]	2386	[4111, 4112]	4434	[3026, 1901]	6482	[7761, 3391]
339	[670, 671]	2387	[4057, 4113]	4435	[654, 195]	6483	[7683, 7556]
340	[672, 673]	2388	[4114, 3968]	4436	[6432, 6433]	6484	[3681, 7688]
341	[674, 675]	2389	[4115, 4116]	4437	[909, 5514]	6485	[7732, 7721]
342	[676, 677]	2390	[3883, 3844]	4438	[6280, 3201]	6486	[7762, 4191]
343	[678, 679]	2391	[4117, 3845]	4439	[6434, 2882]	6487	[7408, 4799]
344	[680, 681]	2392	[4118, 4119]	4440	[6435, 6436]	6488	[7325, 4888]
345	[682, 683]	2393	[4120, 4121]	4441	[2310, 5326]	6489	[1808, 7459]
346	[684, 685]	2394	[4122, 3997]	4442	[6436, 6437]	6490	[3673, 7763]
347	[686, 687]	2395	[4123, 4124]	4443	[6438, 6439]	6491	[4769, 7764]
348	[688, 689]	2396	[6, 4125]	4444	[6201, 6440]	6492	[4008, 4584]
349	[690, 691]	2397	[4126, 1021]	4445	[6441, 6002]	6493	[4837, 1162]
350	[692, 693]	2398	[4127, 1211]	4446	[6442, 6443]	6494	[7202, 4115]
351	[694, 695]	2399	[4128, 4129]	4447	[6123, 6423]	6495	[7765, 4977]
352	[696, 697]	2400	[4106, 4130]	4448	[6444, 2117]	6496	[7766, 4605]
353	[698, 699]	2401	[4131, 4132]	4449	[934, 6445]	6497	[3357, 7256]
354	[700, 701]	2402	[4133, 3759]	4450	[6446, 959]	6498	[7767, 7631]
355	[702, 703]	2403	[3519, 4134]	4451	[200, 5750]	6499	[425, 1441]
356	[704, 705]	2404	[4135, 4136]	4452	[6447, 199]	6500	[4637, 3794]
357	[706, 707]	2405	[4024, 4137]	4453	[6448, 6449]	6501	[5169, 7272]
358	[708, 709]	2406	[4138, 4139]	4454	[6450, 6451]	6502	[7197, 1605]

359	[710, 711]	2407	[4140, 4141]	4455	[6452, 6453]	6503	[7340, 7768]
360	[712, 713]	2408	[4142, 4143]	4456	[1954, 6454]	6504	[7660, 4156]
361	[714, 715]	2409	[4144, 4145]	4457	[6126, 3062]	6505	[3608, 4168]
362	[716, 717]	2410	[4146, 4147]	4458	[3003, 6455]	6506	[5161, 4990]
363	[718, 189]	2411	[3921, 1572]	4459	[713, 5631]	6507	[7769, 7453]
364	[719, 720]	2412	[4148, 3461]	4460	[5965, 3100]	6508	[1116, 7003]
365	[721, 722]	2413	[3811, 1299]	4461	[6143, 3321]	6509	[7770, 4081]
366	[723, 724]	2414	[4149, 4150]	4462	[6456, 5522]	6510	[4644, 1320]
367	[725, 726]	2415	[1577, 4151]	4463	[5854, 5849]	6511	[3447, 4007]
368	[727, 728]	2416	[4152, 4153]	4464	[6457, 6458]	6512	[5082, 7677]
369	[729, 730]	2417	[4154, 4155]	4465	[2157, 6459]	6513	[7736, 1230]
370	[731, 732]	2418	[4156, 4157]	4466	[6460, 6461]	6514	[1167, 7262]
371	[733, 734]	2419	[4158, 4159]	4467	[6462, 6463]	6515	[4860, 4409]
372	[735, 736]	2420	[1517, 4160]	4468	[768, 6464]	6516	[4916, 1084]
373	[737, 738]	2421	[4161, 4162]	4469	[6465, 6466]	6517	[4973, 458]
374	[739, 740]	2422	[3683, 3995]	4470	[6467, 6333]	6518	[4562, 7438]
375	[741, 742]	2423	[4163, 4164]	4471	[6468, 6469]	6519	[7771, 7572]
376	[743, 744]	2424	[4165, 1166]	4472	[6187, 6470]	6520	[4959, 4812]
377	[745, 746]	2425	[4166, 4167]	4473	[44, 6471]	6521	[1312, 7422]
378	[747, 748]	2426	[4168, 4169]	4474	[5476, 2913]	6522	[4164, 7713]
379	[749, 750]	2427	[4170, 4107]	4475	[760, 6472]	6523	[4655, 1777]
380	[751, 752]	2428	[4013, 3735]	4476	[5782, 6473]	6524	[6946, 87]
381	[753, 754]	2429	[4171, 4172]	4477	[6474, 2989]	6525	[7519, 5117]
382	[755, 756]	2430	[4173, 4174]	4478	[2087, 6475]	6526	[3405, 7761]
383	[757, 758]	2431	[4175, 4176]	4479	[6290, 841]	6527	[7772, 1755]
384	[759, 760]	2432	[4177, 4178]	4480	[6476, 2739]	6528	[4863, 7096]
385	[761, 762]	2433	[1672, 1142]	4481	[6477, 597]	6529	[4438, 7497]
386	[763, 764]	2434	[4179, 1725]	4482	[5571, 133]	6530	[5070, 3869]
387	[765, 766]	2435	[4180, 3475]	4483	[2757, 2793]	6531	[7290, 7773]
388	[767, 768]	2436	[1565, 4181]	4484	[140, 6240]	6532	[7291, 4389]
389	[769, 770]	2437	[4134, 4182]	4485	[2432, 6297]	6533	[4169, 4443]
390	[771, 772]	2438	[1271, 3828]	4486	[3065, 581]	6534	[5102, 3991]
391	[773, 774]	2439	[4183, 4184]	4487	[6478, 6479]	6535	[4744, 3654]
392	[775, 776]	2440	[98, 4185]	4488	[6132, 3325]	6536	[5181, 5036]
393	[648, 777]	2441	[4186, 4187]	4489	[244, 6480]	6537	[7278, 7475]
394	[778, 779]	2442	[4188, 1266]	4490	[6481, 6482]	6538	[6945, 4074]
395	[780, 781]	2443	[4189, 1268]	4491	[6483, 6484]	6539	[3846, 7774]
396	[238, 782]	2444	[490, 4158]	4492	[6011, 6210]	6540	[4227, 5061]
397	[783, 784]	2445	[4190, 1809]	4493	[6485, 6486]	6541	[7612, 7219]
398	[785, 786]	2446	[4191, 357]	4494	[6487, 2670]	6542	[7050, 7775]
399	[787, 788]	2447	[4192, 4193]	4495	[6488, 5492]	6543	[7690, 7776]
400	[789, 790]	2448	[4194, 4195]	4496	[2159, 5564]	6544	[7777, 4825]
401	[194, 791]	2449	[4062, 1420]	4497	[6223, 6489]	6545	[7778, 4202]
402	[792, 793]	2450	[3446, 4196]	4498	[6490, 6491]	6546	[7392, 7602]

403	[794, 795]	2451	[4197, 1746]	4499	[2250, 2861]	6547	[4113, 1406]
404	[796, 797]	2452	[4198, 4199]	4500	[2188, 6259]	6548	[4809, 3500]
405	[798, 799]	2453	[4200, 4201]	4501	[6492, 2468]	6549	[4822, 3817]
406	[800, 801]	2454	[4202, 339]	4502	[652, 1909]	6550	[7421, 331]
407	[802, 803]	2455	[4203, 4204]	4503	[6493, 6494]	6551	[4400, 7613]
408	[804, 805]	2456	[1615, 4205]	4504	[6495, 3106]	6552	[1008, 7779]
409	[806, 807]	2457	[4206, 4207]	4505	[2344, 5219]	6553	[5172, 7000]
410	[808, 809]	2458	[4208, 4209]	4506	[5908, 5583]	6554	[4958, 4862]
411	[810, 811]	2459	[4210, 4211]	4507	[2345, 2244]	6555	[5182, 7027]
412	[812, 813]	2460	[4212, 1816]	4508	[2816, 6496]	6556	[7780, 7191]
413	[814, 815]	2461	[4213, 489]	4509	[6323, 6497]	6557	[7657, 1744]
414	[816, 817]	2462	[4201, 4214]	4510	[6498, 6499]	6558	[4855, 4085]
415	[540, 818]	2463	[3913, 4215]	4511	[6500, 6501]	6559	[7185, 4656]
416	[819, 820]	2464	[4216, 4217]	4512	[5459, 6502]	6560	[7405, 5105]
417	[821, 822]	2465	[3670, 4218]	4513	[6503, 6504]	6561	[3662, 7741]
418	[823, 824]	2466	[1319, 4219]	4514	[2536, 6505]	6562	[4770, 4345]
419	[825, 826]	2467	[4220, 4221]	4515	[3081, 6506]	6563	[7781, 7782]
420	[827, 828]	2468	[4222, 4223]	4516	[6507, 6508]	6564	[7783, 7640]
421	[829, 830]	2469	[4224, 4225]	4517	[6509, 3160]	6565	[7148, 7615]
422	[831, 832]	2470	[4226, 4227]	4518	[6510, 682]	6566	[6998, 7719]
423	[833, 834]	2471	[1753, 1437]	4519	[6511, 6083]	6567	[3816, 3536]
424	[835, 836]	2472	[4228, 4229]	4520	[6512, 6513]	6568	[7784, 1737]
425	[837, 838]	2473	[4230, 3435]	4521	[2615, 2390]	6569	[3532, 7339]
426	[839, 840]	2474	[4046, 4231]	4522	[921, 908]	6570	[7745, 7785]
427	[841, 842]	2475	[4232, 1684]	4523	[3310, 6110]	6571	[4998, 7146]
428	[728, 843]	2476	[1806, 4233]	4524	[6422, 5783]	6572	[1428, 3897]
429	[844, 845]	2477	[4234, 4235]	4525	[6514, 509]	6573	[3748, 6978]
430	[846, 847]	2478	[4214, 1727]	4526	[5565, 6515]	6574	[4640, 1023]
431	[848, 849]	2479	[4236, 1246]	4527	[3277, 6516]	6575	[4905, 7118]
432	[850, 851]	2480	[4237, 4238]	4528	[6517, 553]	6576	[7569, 7786]
433	[852, 853]	2481	[3691, 4239]	4529	[6497, 6518]	6577	[7275, 3920]
434	[784, 659]	2482	[1020, 1221]	4530	[6519, 6520]	6578	[4097, 79]
435	[854, 855]	2483	[1022, 4240]	4531	[679, 6521]	6579	[4846, 4126]
436	[856, 857]	2484	[1645, 4241]	4532	[6309, 6522]	6580	[5164, 3486]
437	[858, 859]	2485	[4242, 4243]	4533	[6523, 3072]	6581	[3839, 7787]
438	[860, 861]	2486	[4244, 4245]	4534	[6524, 2646]	6582	[7576, 7734]
439	[862, 863]	2487	[4246, 4247]	4535	[5376, 6525]	6583	[7490, 4269]
440	[864, 865]	2488	[4248, 4166]	4536	[6074, 2406]	6584	[7788, 4407]
441	[866, 867]	2489	[4249, 4250]	4537	[5389, 6526]	6585	[7352, 5044]
442	[868, 869]	2490	[4251, 3871]	4538	[5259, 6527]	6586	[7450, 1331]
443	[870, 871]	2491	[4252, 1307]	4539	[5454, 6528]	6587	[3980, 4377]
444	[872, 589]	2492	[4253, 4254]	4540	[550, 925]	6588	[4298, 1435]
445	[873, 874]	2493	[1815, 4255]	4541	[5722, 888]	6589	[6990, 7236]
446	[875, 876]	2494	[1464, 4256]	4542	[6529, 1931]	6590	[1302, 6950]

447	[877, 878]	2495	[4257, 440]	4543	[5767, 6530]	6591	[7742, 7789]
448	[879, 880]	2496	[4258, 4259]	4544	[6096, 883]	6592	[256, 4953]
449	[881, 882]	2497	[4260, 4011]	4545	[5401, 5929]	6593	[4581, 4781]
450	[883, 884]	2498	[4261, 4262]	4546	[6531, 6532]	6594	[7790, 4798]
451	[885, 881]	2499	[4263, 4264]	4547	[6256, 6391]	6595	[7112, 4428]
452	[886, 887]	2500	[4265, 3443]	4548	[6533, 6392]	6596	[4884, 3981]
453	[888, 889]	2501	[1711, 4266]	4549	[3258, 6534]	6597	[7718, 7586]
454	[890, 891]	2502	[4053, 4267]	4550	[6535, 6369]	6598	[4464, 4248]
455	[892, 893]	2503	[4268, 1824]	4551	[1992, 3227]	6599	[7755, 7007]
456	[894, 895]	2504	[4269, 1830]	4552	[3161, 37]	6600	[4583, 7791]
457	[896, 897]	2505	[4243, 4270]	4553	[2690, 2911]	6601	[6974, 7654]
458	[898, 899]	2506	[4271, 4272]	4554	[6536, 6509]	6602	[7792, 7345]
459	[900, 901]	2507	[3597, 1007]	4555	[6537, 5372]	6603	[7793, 7346]
460	[902, 903]	2508	[3976, 4273]	4556	[6538, 2360]	6604	[3402, 7147]
461	[904, 905]	2509	[4274, 4275]	4557	[5839, 6539]	6605	[5112, 379]
462	[906, 907]	2510	[4276, 3371]	4558	[5560, 6540]	6606	[5141, 5118]
463	[908, 909]	2511	[1081, 4277]	4559	[3132, 5515]	6607	[3388, 7187]
464	[910, 911]	2512	[4278, 23]	4560	[6541, 6438]	6608	[4050, 4220]
465	[912, 913]	2513	[4279, 4280]	4561	[632, 6542]	6609	[3942, 4687]
466	[914, 915]	2514	[4281, 4282]	4562	[2485, 2075]	6610	[7454, 3983]
467	[916, 917]	2515	[4283, 4284]	4563	[6543, 3170]	6611	[7155, 4482]
468	[918, 919]	2516	[4285, 3790]	4564	[2104, 6544]	6612	[7561, 7794]
469	[920, 921]	2517	[4286, 3903]	4565	[6453, 3271]	6613	[4925, 5006]
470	[546, 922]	2518	[3542, 3924]	4566	[6100, 6341]	6614	[4735, 7795]
471	[923, 924]	2519	[4287, 4288]	4567	[6545, 5876]	6615	[1137, 4817]
472	[925, 926]	2520	[4289, 4290]	4568	[6530, 6546]	6616	[360, 5123]
473	[927, 928]	2521	[3494, 4291]	4569	[6547, 6548]	6617	[1262, 3473]
474	[929, 930]	2522	[4292, 4293]	4570	[6549, 5818]	6618	[7319, 1671]
475	[931, 932]	2523	[4294, 4295]	4571	[6550, 2033]	6619	[7641, 4757]
476	[933, 934]	2524	[1192, 4296]	4572	[6499, 6169]	6620	[7796, 5075]
477	[536, 935]	2525	[4109, 4297]	4573	[2918, 6551]	6621	[7268, 7284]
478	[582, 936]	2526	[3868, 4298]	4574	[518, 6552]	6622	[3665, 317]
479	[937, 938]	2527	[4209, 307]	4575	[5568, 6434]	6623	[1510, 7797]
480	[939, 940]	2528	[4299, 4300]	4576	[6553, 755]	6624	[7798, 7312]
481	[941, 942]	2529	[1794, 4301]	4577	[6401, 5709]	6625	[3740, 7460]
482	[943, 944]	2530	[3699, 3946]	4578	[6554, 6555]	6626	[1298, 7693]
483	[945, 946]	2531	[1851, 121]	4579	[6555, 2411]	6627	[1724, 7391]
484	[947, 806]	2532	[453, 4302]	4580	[6039, 2272]	6628	[1382, 5188]
485	[948, 949]	2533	[4303, 4304]	4581	[2081, 2856]	6629	[4738, 7697]
486	[950, 951]	2534	[4305, 3885]	4582	[6556, 5411]	6630	[7764, 7371]
487	[952, 953]	2535	[4221, 3792]	4583	[6557, 6558]	6631	[7799, 7653]
488	[954, 955]	2536	[4306, 4148]	4584	[6559, 977]	6632	[7728, 416]
489	[956, 957]	2537	[482, 4307]	4585	[2823, 5238]	6633	[7481, 1315]
490	[596, 958]	2538	[4308, 4309]	4586	[6289, 6560]	6634	[7048, 7388]

491	[959, 960]	2539	[4017, 1874]	4587	[6561, 1882]	6635	[7347, 7540]
492	[961, 962]	2540	[4310, 1042]	4588	[5896, 6562]	6636	[7140, 5069]
493	[600, 963]	2541	[4311, 4312]	4589	[6079, 6331]	6637	[4633, 7704]
494	[964, 965]	2542	[4313, 4314]	4590	[6563, 6564]	6638	[4836, 7607]
495	[966, 967]	2543	[3852, 3607]	4591	[6565, 2358]	6639	[354, 3904]
496	[968, 969]	2544	[4315, 4316]	4592	[6566, 6567]	6640	[7598, 7680]
497	[970, 165]	2545	[4317, 3433]	4593	[6568, 6569]	6641	[1636, 3779]
498	[971, 972]	2546	[1790, 4318]	4594	[6361, 205]	6642	[3943, 4851]
499	[973, 974]	2547	[1792, 4319]	4595	[5499, 6303]	6643	[4514, 7375]
500	[975, 976]	2548	[4320, 1203]	4596	[917, 6570]	6644	[4066, 3412]
501	[977, 978]	2549	[4321, 1207]	4597	[6385, 2111]	6645	[7712, 7800]
502	[979, 877]	2550	[4322, 4323]	4598	[3305, 6571]	6646	[6963, 7769]
503	[980, 981]	2551	[4324, 4325]	4599	[6189, 6572]	6647	[7445, 3382]
504	[982, 983]	2552	[4326, 4327]	4600	[5787, 183]	6648	[4930, 7638]
505	[717, 984]	2553	[1354, 4328]	4601	[6573, 5254]	6649	[1049, 7801]
506	[985, 986]	2554	[1233, 4329]	4602	[6574, 5256]	6650	[4989, 7802]
507	[987, 988]	2555	[4330, 4331]	4603	[6575, 6160]	6651	[1515, 7049]
508	[989, 990]	2556	[4332, 4230]	4604	[6576, 6577]	6652	[1225, 7174]
509	[991, 992]	2557	[1190, 4333]	4605	[6578, 6579]	6653	[7803, 4488]
510	[993, 994]	2558	[4334, 1620]	4606	[5375, 6580]	6654	[1481, 3506]
511	[995, 996]	2559	[3825, 4335]	4607	[2716, 5663]	6655	[7642, 1847]
512	[997, 998]	2560	[4336, 4067]	4608	[903, 6581]	6656	[7427, 7762]
513	[999, 1000]	2561	[4337, 4338]	4609	[6582, 6429]	6657	[1633, 3386]
514	[1001, 1002]	2562	[4339, 4340]	4610	[2168, 5572]	6658	[4677, 3722]
515	[1003, 1004]	2563	[4341, 4342]	4611	[2169, 5672]	6659	[4841, 3682]
516	[1005, 1006]	2564	[4343, 4344]	4612	[3015, 5317]	6660	[7659, 5180]
517	[1007, 1008]	2565	[4345, 387]	4613	[6583, 3304]	6661	[5049, 1822]
518	[1009, 1010]	2566	[1521, 4346]	4614	[6584, 2634]	6662	[5101, 7798]
519	[1011, 1012]	2567	[4217, 367]	4615	[6585, 3168]	6663	[4709, 1339]
520	[1013, 1014]	2568	[4218, 4347]	4616	[6343, 1929]	6664	[7804, 7440]
521	[1015, 1016]	2569	[3398, 4348]	4617	[6586, 6587]	6665	[4423, 7805]
522	[1017, 1018]	2570	[4349, 4350]	4618	[5347, 6588]	6666	[5214, 7752]
523	[1019, 1020]	2571	[4351, 291]	4619	[5813, 2525]	6667	[7605, 3840]
524	[1021, 1022]	2572	[1155, 4352]	4620	[6384, 5894]	6668	[3383, 5194]
525	[1023, 1024]	2573	[4353, 4354]	4621	[6589, 856]	6669	[4080, 359]
526	[1025, 1026]	2574	[4355, 4292]	4622	[6590, 6347]	6670	[7079, 3421]
527	[1027, 1028]	2575	[4356, 4357]	4623	[5992, 5355]	6671	[7309, 1761]
528	[1029, 1030]	2576	[4358, 4359]	4624	[6591, 2851]	6672	[7794, 7806]
529	[1031, 355]	2577	[4360, 4361]	4625	[524, 2482]	6673	[1161, 7765]
530	[1032, 1033]	2578	[3363, 4362]	4626	[6592, 6593]	6674	[3888, 1442]
531	[1034, 1035]	2579	[4363, 3743]	4627	[6071, 6594]	6675	[7807, 4471]
532	[1036, 1037]	2580	[4364, 4365]	4628	[5969, 519]	6676	[4983, 7808]
533	[1038, 1039]	2581	[1676, 4366]	4629	[6595, 1965]	6677	[4952, 3663]
534	[1040, 1041]	2582	[1210, 1402]	4630	[6596, 5914]	6678	[7230, 7803]

535	[1042, 442]	2583	[4367, 1603]	4631	[2289, 1903]	6679	[7809, 5160]
536	[1043, 1044]	2584	[4368, 4369]	4632	[5428, 2061]	6680	[3771, 5156]
537	[1045, 430]	2585	[4370, 4371]	4633	[6597, 6598]	6681	[5121, 5046]
538	[1046, 1047]	2586	[4372, 4373]	4634	[2639, 6599]	6682	[7571, 477]
539	[1048, 1049]	2587	[4374, 3621]	4635	[2726, 2595]	6683	[7810, 1548]
540	[1050, 1051]	2588	[302, 1861]	4636	[2455, 2701]	6684	[3752, 1001]
541	[1052, 1053]	2589	[1547, 1272]	4637	[6600, 607]	6685	[7811, 7590]
542	[1054, 1055]	2590	[4375, 4376]	4638	[2217, 6601]	6686	[1860, 5040]
543	[1056, 1057]	2591	[4377, 1838]	4639	[590, 810]	6687	[368, 7562]
544	[1058, 1059]	2592	[4378, 4379]	4640	[2825, 1950]	6688	[96, 4784]
545	[421, 1060]	2593	[3557, 4380]	4641	[6602, 6603]	6689	[7030, 369]
546	[1061, 1062]	2594	[4381, 4382]	4642	[2528, 6038]	6690	[4485, 4212]
547	[336, 1063]	2595	[4383, 4384]	4643	[6604, 3301]	6691	[7012, 3574]
548	[1064, 1065]	2596	[4385, 4386]	4644	[6605, 718]	6692	[7107, 283]
549	[1066, 1067]	2597	[4387, 4388]	4645	[2262, 5790]	6693	[4496, 5210]
550	[1068, 1069]	2598	[4389, 1043]	4646	[6606, 233]	6694	[3675, 4320]
551	[1070, 1071]	2599	[4390, 1692]	4647	[1912, 6607]	6695	[7812, 7813]
552	[1072, 1073]	2600	[4391, 4392]	4648	[6608, 6609]	6696	[7488, 3513]
553	[1074, 460]	2601	[4393, 4394]	4649	[6587, 57]	6697	[5047, 4950]
554	[1075, 16]	2602	[4395, 4396]	4650	[6350, 6610]	6698	[7814, 7770]
555	[1076, 1077]	2603	[3958, 4397]	4651	[1947, 6204]	6699	[7179, 7276]
556	[1078, 1079]	2604	[4398, 1648]	4652	[6611, 6612]	6700	[1405, 7815]
557	[1080, 1081]	2605	[4399, 4400]	4653	[3036, 5545]	6701	[1760, 7816]
558	[1082, 1083]	2606	[4401, 4402]	4654	[6613, 2394]	6702	[1089, 7273]
559	[1084, 1085]	2607	[16, 4403]	4655	[6614, 2343]	6703	[4805, 1412]
560	[1086, 1087]	2608	[3960, 4133]	4656	[218, 5312]	6704	[1093, 7418]
561	[1088, 1089]	2609	[1787, 4404]	4657	[6615, 6600]	6705	[4686, 7374]
562	[437, 1090]	2610	[4405, 4406]	4658	[2247, 3315]	6706	[7797, 5059]
563	[1091, 1092]	2611	[4407, 3774]	4659	[6616, 6617]	6707	[7703, 7218]
564	[262, 1093]	2612	[4408, 1418]	4660	[5925, 1942]	6708	[5088, 466]
565	[1094, 1095]	2613	[1758, 3989]	4661	[5723, 6618]	6709	[3587, 3690]
566	[1096, 93]	2614	[4409, 3710]	4662	[6528, 5380]	6710	[3930, 1369]
567	[1097, 1098]	2615	[4410, 4120]	4663	[6619, 2906]	6711	[7542, 7627]
568	[1099, 1100]	2616	[3660, 3977]	4664	[5739, 6620]	6712	[7217, 5009]
569	[1101, 1102]	2617	[4411, 4042]	4665	[5589, 6621]	6713	[7443, 7650]
570	[1103, 1104]	2618	[318, 4412]	4666	[6567, 5730]	6714	[4384, 4258]
571	[1105, 1105]	2619	[4413, 4414]	4667	[5855, 6622]	6715	[7335, 7817]
572	[1106, 1107]	2620	[4415, 3906]	4668	[6623, 6624]	6716	[1519, 1185]
573	[1108, 1109]	2621	[4416, 4417]	4669	[6625, 6626]	6717	[7722, 7717]
574	[1110, 1111]	2622	[4418, 4419]	4670	[6627, 6628]	6718	[3860, 7106]
575	[1112, 1031]	2623	[4420, 3455]	4671	[6572, 2242]	6719	[1184, 1866]
576	[1113, 1114]	2624	[3886, 381]	4672	[5799, 5333]	6720	[7591, 4398]
577	[1115, 1116]	2625	[3775, 4278]	4673	[6461, 6629]	6721	[7729, 4775]
578	[1117, 1118]	2626	[398, 3404]	4674	[6275, 5324]	6722	[1583, 1492]

579	[1119, 1120]	2627	[3511, 4421]	4675	[6630, 5675]	6723	[7802, 7724]
580	[1121, 1122]	2628	[4422, 4423]	4676	[6631, 6632]	6724	[7495, 7574]
581	[1123, 1124]	2629	[4424, 4425]	4677	[6633, 5713]	6725	[3434, 1009]
582	[1125, 1126]	2630	[4426, 4427]	4678	[3231, 5437]	6726	[4069, 7818]
583	[1127, 1128]	2631	[4428, 4083]	4679	[6634, 6635]	6727	[7819, 7820]
584	[1129, 1130]	2632	[4429, 4430]	4680	[6636, 6637]	6728	[3994, 1812]
585	[1131, 1132]	2633	[4431, 1422]	4681	[5247, 6561]	6729	[7821, 1488]
586	[1133, 1134]	2634	[496, 4432]	4682	[5471, 6638]	6730	[5145, 7793]
587	[324, 1135]	2635	[4433, 4434]	4683	[6639, 6413]	6731	[7006, 7124]
588	[1136, 1137]	2636	[4435, 3891]	4684	[3283, 3054]	6732	[350, 1516]
589	[1138, 1139]	2637	[4436, 4437]	4685	[6640, 6641]	6733	[1649, 1264]
590	[1140, 1141]	2638	[3923, 4438]	4686	[6642, 954]	6734	[7205, 5131]
591	[1142, 1143]	2639	[3907, 4413]	4687	[5961, 6643]	6735	[5024, 7412]
592	[1144, 1145]	2640	[4439, 4440]	4688	[6439, 6414]	6736	[1447, 4704]
593	[1146, 1147]	2641	[4441, 4442]	4689	[2603, 2815]	6737	[7342, 4835]
594	[1148, 1149]	2642	[4443, 4444]	4690	[6644, 6016]	6738	[7520, 4465]
595	[1150, 1151]	2643	[4445, 4446]	4691	[811, 5625]	6739	[1457, 7467]
596	[1152, 1153]	2644	[4447, 4448]	4692	[813, 5872]	6740	[7816, 7778]
597	[1154, 1155]	2645	[3491, 4449]	4693	[6645, 6549]	6741	[3703, 3754]
598	[1156, 1157]	2646	[4417, 4051]	4694	[865, 6646]	6742	[7822, 4964]
599	[1158, 1159]	2647	[3956, 4450]	4695	[6647, 6648]	6743	[5146, 7186]
600	[1160, 1161]	2648	[3594, 4451]	4696	[6649, 6650]	6744	[7681, 7696]
601	[1162, 1163]	2649	[3599, 4452]	4697	[6431, 6651]	6745	[7823, 5173]
602	[1164, 1165]	2650	[3422, 403]	4698	[3082, 3133]	6746	[7534, 1228]
603	[1166, 1167]	2651	[4453, 4454]	4699	[6652, 6653]	6747	[3507, 4131]
604	[394, 1168]	2652	[4455, 3649]	4700	[6654, 6655]	6748	[7359, 7614]
605	[1169, 1170]	2653	[4456, 269]	4701	[6656, 2930]	6749	[7756, 1694]
606	[1171, 1172]	2654	[110, 4457]	4702	[216, 139]	6750	[7090, 7446]
607	[1173, 1174]	2655	[4458, 4459]	4703	[5363, 6186]	6751	[7824, 4788]
608	[1175, 1176]	2656	[4460, 4461]	4704	[2680, 3002]	6752	[1743, 7394]
609	[1177, 1178]	2657	[4462, 4445]	4705	[6657, 6616]	6753	[1397, 7825]
610	[1179, 1180]	2658	[4463, 4464]	4706	[5278, 6658]	6754	[4664, 7796]
611	[1181, 1182]	2659	[4465, 4466]	4707	[6659, 2398]	6755	[1459, 1637]
612	[1183, 1184]	2660	[4467, 4468]	4708	[6247, 2084]	6756	[1322, 7305]
613	[1185, 1186]	2661	[380, 4469]	4709	[6408, 6660]	6757	[7786, 3955]
614	[1187, 1188]	2662	[4470, 4311]	4710	[6288, 6519]	6758	[7037, 7086]
615	[1189, 1190]	2663	[4471, 4138]	4711	[6661, 3014]	6759	[4312, 4981]
616	[1191, 1192]	2664	[4472, 4473]	4712	[834, 5450]	6760	[7818, 4676]
617	[1193, 1194]	2665	[4474, 1595]	4713	[5575, 2445]	6761	[5159, 7628]
618	[1195, 1196]	2666	[3497, 4475]	4714	[5598, 2322]	6762	[7826, 3545]
619	[1197, 1198]	2667	[4476, 4477]	4715	[6174, 6318]	6763	[7702, 3583]
620	[1199, 1200]	2668	[3672, 4478]	4716	[2973, 6403]	6764	[5005, 7827]
621	[1201, 1202]	2669	[4225, 125]	4717	[2891, 2602]	6765	[5002, 4903]
622	[1203, 1204]	2670	[4479, 426]	4718	[3200, 6337]	6766	[7828, 7429]

623	[1205, 1206]	2671	[3614, 4480]	4719	[555, 6662]	6767	[7020, 7699]
624	[1207, 1208]	2672	[4481, 1349]	4720	[6215, 2206]	6768	[7104, 7506]
625	[1209, 1210]	2673	[4482, 3985]	4721	[6663, 511]	6769	[4731, 7549]
626	[1211, 1212]	2674	[3729, 4483]	4722	[5890, 2257]	6770	[3822, 7212]
627	[1213, 1214]	2675	[4484, 4485]	4723	[2367, 5800]	6771	[4546, 7094]
628	[1215, 1216]	2676	[4486, 4487]	4724	[5835, 551]	6772	[4834, 1566]
629	[1217, 1218]	2677	[4143, 1523]	4725	[6664, 6665]	6773	[4896, 7403]
630	[1219, 1220]	2678	[4488, 1845]	4726	[6666, 6667]	6774	[7387, 1564]
631	[1221, 1222]	2679	[122, 4489]	4727	[5772, 5686]	6775	[7516, 5211]
632	[1223, 1224]	2680	[4490, 4491]	4728	[1908, 6668]	6776	[4717, 4651]
633	[1051, 1225]	2681	[4492, 399]	4729	[6022, 6669]	6777	[7829, 5138]
634	[1226, 1227]	2682	[4493, 4494]	4730	[6670, 6671]	6778	[4734, 1112]
635	[1228, 1229]	2683	[4495, 4339]	4731	[2389, 6432]	6779	[7165, 4101]
636	[1230, 1231]	2684	[1143, 4496]	4732	[3088, 798]	6780	[7431, 7416]
637	[1232, 1233]	2685	[4497, 4498]	4733	[795, 5539]	6781	[7353, 1498]
638	[1234, 1235]	2686	[4296, 4499]	4734	[797, 6231]	6782	[4205, 5109]
639	[1236, 1237]	2687	[4500, 4501]	4735	[2774, 6253]	6783	[7787, 3781]
640	[1238, 1239]	2688	[4502, 3591]	4736	[3209, 6490]	6784	[7227, 4785]
641	[1240, 1241]	2689	[4503, 4504]	4737	[6321, 6054]	6785	[7017, 1584]
642	[1242, 1243]	2690	[4505, 4506]	4738	[699, 537]	6786	[7830, 3847]
643	[1244, 1245]	2691	[1653, 3643]	4739	[3033, 2054]	6787	[7623, 3650]
644	[1246, 1247]	2692	[4507, 4508]	4740	[46, 6672]	6788	[7499, 1431]
645	[1229, 1248]	2693	[4509, 4237]	4741	[3167, 1897]	6789	[7831, 7372]
646	[1249, 1250]	2694	[4510, 4511]	4742	[2986, 6557]	6790	[4824, 3713]
647	[1251, 1252]	2695	[3821, 4512]	4743	[963, 6673]	6791	[4986, 1849]
648	[1253, 1254]	2696	[4513, 4514]	4744	[6227, 2319]	6792	[3409, 7766]
649	[1255, 1256]	2697	[4515, 4516]	4745	[6370, 2280]	6793	[7601, 4173]
650	[1257, 1258]	2698	[4517, 3819]	4746	[6674, 747]	6794	[3688, 3529]
651	[1259, 1260]	2699	[4099, 4518]	4747	[6675, 2873]	6795	[7801, 5149]
652	[1261, 1262]	2700	[4519, 1554]	4748	[2034, 3326]	6796	[7832, 7496]
653	[1263, 391]	2701	[4520, 1767]	4749	[5519, 5505]	6797	[4043, 7833]
654	[1264, 1265]	2702	[4521, 4522]	4750	[3111, 6676]	6798	[3984, 7834]
655	[1266, 1267]	2703	[4523, 4524]	4751	[6677, 2090]	6799	[1057, 7723]
656	[1268, 1269]	2704	[88, 4372]	4752	[6367, 5651]	6800	[4157, 4509]
657	[1270, 1271]	2705	[4207, 4525]	4753	[6678, 6679]	6801	[3741, 7051]
658	[1272, 1273]	2706	[4526, 333]	4754	[6114, 6680]	6802	[4473, 3730]
659	[1274, 1275]	2707	[1835, 4527]	4755	[6607, 6681]	6803	[988, 7161]
660	[1276, 1277]	2708	[4528, 277]	4756	[34, 2375]	6804	[7813, 7835]
661	[1278, 85]	2709	[1628, 4529]	4757	[5971, 5467]	6805	[7097, 4985]
662	[1279, 1280]	2710	[1592, 4530]	4758	[6682, 6683]	6806	[7504, 4843]
663	[1281, 1282]	2711	[344, 4531]	4759	[884, 5402]	6807	[7836, 4663]
664	[1283, 1284]	2712	[112, 4532]	4760	[5404, 6684]	6808	[3592, 5056]
665	[1285, 1286]	2713	[4533, 4534]	4761	[6685, 6263]	6809	[7363, 7749]
666	[1287, 1288]	2714	[3719, 4535]	4762	[2905, 5652]	6810	[7837, 7838]

667	[1289, 1290]	2715	[3561, 4251]	4763	[6686, 1933]	6811	[7511, 7824]
668	[1291, 1292]	2716	[4536, 3939]	4764	[6687, 2458]	6812	[314, 4144]
669	[1293, 1294]	2717	[3460, 4537]	4765	[6118, 2632]	6813	[4153, 4472]
670	[1295, 1296]	2718	[4162, 1193]	4766	[6688, 6656]	6814	[3933, 7826]
671	[1297, 1298]	2719	[4538, 4539]	4767	[2393, 757]	6815	[28, 7663]
672	[1299, 1300]	2720	[4540, 4541]	4768	[6689, 2214]	6816	[7541, 7517]
673	[1301, 1302]	2721	[4542, 4543]	4769	[6690, 6691]	6817	[1413, 4892]
674	[1303, 1304]	2722	[1503, 1843]	4770	[2182, 765]	6818	[7839, 7676]
675	[1305, 1306]	2723	[4333, 4544]	4771	[6692, 5662]	6819	[6987, 7757]
676	[1307, 1308]	2724	[4545, 4546]	4772	[6693, 5721]	6820	[1304, 1721]
677	[1309, 1310]	2725	[4547, 4383]	4773	[6694, 6695]	6821	[3965, 1034]
678	[1311, 1312]	2726	[4548, 4385]	4774	[6696, 6697]	6822	[3815, 1646]
679	[1313, 1314]	2727	[4549, 4550]	4775	[6058, 668]	6823	[3631, 4170]
680	[1315, 1316]	2728	[4551, 1801]	4776	[6698, 6686]	6824	[5034, 3560]
681	[1317, 27]	2729	[4552, 17]	4777	[6699, 5439]	6825	[396, 4367]
682	[1318, 1319]	2730	[1848, 3820]	4778	[5759, 979]	6826	[4371, 1427]
683	[1320, 363]	2731	[4553, 4474]	4779	[843, 6700]	6827	[7774, 1226]
684	[1321, 1322]	2732	[382, 4554]	4780	[6701, 6702]	6828	[7458, 7157]
685	[1323, 988]	2733	[4555, 4556]	4781	[3317, 5418]	6829	[1600, 7790]
686	[1060, 1324]	2734	[4557, 4558]	4782	[5732, 6450]	6830	[3978, 7837]
687	[1325, 1326]	2735	[3342, 119]	4783	[6703, 3286]	6831	[7110, 3855]
688	[1327, 1328]	2736	[4559, 4360]	4784	[2153, 6036]	6832	[7382, 7409]
689	[1329, 1330]	2737	[4560, 335]	4785	[6166, 6446]	6833	[7582, 1343]
690	[1331, 1332]	2738	[4561, 3522]	4786	[736, 6368]	6834	[3642, 7462]
691	[1333, 1334]	2739	[4338, 4562]	4787	[6673, 6704]	6835	[5000, 7711]
692	[1335, 1336]	2740	[4563, 1179]	4788	[6218, 6180]	6836	[7512, 436]
693	[1337, 1338]	2741	[1865, 4287]	4789	[150, 6705]	6837	[1235, 4679]
694	[1339, 1340]	2742	[3791, 3543]	4790	[6624, 6706]	6838	[7287, 3615]
695	[1341, 1342]	2743	[4564, 4565]	4791	[3134, 2307]	6839	[4926, 4063]
696	[1343, 1344]	2744	[4566, 4096]	4792	[6707, 6708]	6840	[1667, 5127]
697	[1345, 1346]	2745	[4567, 3474]	4793	[2837, 6709]	6841	[3658, 7204]
698	[1347, 1348]	2746	[4568, 4569]	4794	[2241, 641]	6842	[459, 4189]
699	[1349, 301]	2747	[4554, 4570]	4795	[2267, 6710]	6843	[3925, 7635]
700	[1350, 1351]	2748	[3418, 4571]	4796	[6224, 5228]	6844	[4912, 7840]
701	[1352, 1353]	2749	[4572, 4505]	4797	[6711, 6712]	6845	[3379, 4555]
702	[1351, 1354]	2750	[4573, 4574]	4798	[2785, 1977]	6846	[4240, 5157]
703	[1355, 1356]	2751	[4575, 4576]	4799	[6713, 2650]	6847	[7750, 6948]
704	[1357, 1358]	2752	[4577, 4578]	4800	[5844, 2105]	6848	[4178, 7410]
705	[1359, 1360]	2753	[4579, 4580]	4801	[772, 6291]	6849	[4921, 7619]
706	[1361, 1362]	2754	[1104, 4581]	4802	[2499, 6714]	6850	[7707, 1719]
707	[1363, 1364]	2755	[4582, 4583]	4803	[6159, 6715]	6851	[1006, 4923]
708	[1365, 1366]	2756	[4584, 4585]	4804	[6199, 6716]	6852	[7570, 4332]
709	[1367, 1368]	2757	[1256, 1635]	4805	[3148, 5838]	6853	[4264, 7771]
710	[1369, 1370]	2758	[3361, 256]	4806	[6004, 5250]	6854	[415, 4636]

711	[1371, 1372]	2759	[4586, 4587]	4807	[2912, 5601]	6855	[4970, 3993]
712	[1373, 1374]	2760	[4588, 4589]	4808	[5734, 2549]	6856	[7523, 1465]
713	[1375, 1376]	2761	[1037, 4590]	4809	[6717, 6316]	6857	[7567, 7689]
714	[1377, 1378]	2762	[4591, 1467]	4810	[6265, 2751]	6858	[1149, 4610]
715	[1379, 1380]	2763	[4592, 3755]	4811	[2095, 6302]	6859	[266, 7672]
716	[1381, 1382]	2764	[4593, 3687]	4812	[2120, 2110]	6860	[5193, 7807]
717	[1383, 1384]	2765	[3476, 1096]	4813	[6718, 6336]	6861	[7621, 1097]
718	[1385, 1386]	2766	[498, 4594]	4814	[6412, 6511]	6862	[1035, 5063]
719	[1387, 1388]	2767	[4595, 4596]	4815	[6719, 6720]	6863	[340, 4378]
720	[1389, 1390]	2768	[3801, 4597]	4816	[608, 6364]	6864	[7841, 7362]
721	[1391, 1392]	2769	[4432, 3803]	4817	[6449, 850]	6865	[4145, 4263]
722	[1393, 1249]	2770	[4598, 4599]	4818	[3025, 6308]	6866	[7842, 1542]
723	[1394, 1395]	2771	[4078, 4600]	4819	[5751, 6574]	6867	[4, 3641]
724	[1396, 1397]	2772	[4601, 4602]	4820	[5694, 6721]	6868	[7531, 4833]
725	[1398, 1399]	2773	[4603, 4604]	4821	[3122, 2220]	6869	[7390, 7395]
726	[1400, 1401]	2774	[1039, 75]	4822	[2843, 5816]	6870	[4354, 7843]
727	[1402, 1403]	2775	[4605, 4606]	4823	[2578, 5943]	6871	[4615, 4665]
728	[1404, 1405]	2776	[1772, 3666]	4824	[6722, 2374]	6872	[1419, 7733]
729	[1406, 1407]	2777	[4607, 4608]	4825	[5301, 6723]	6873	[6989, 5152]
730	[1408, 1409]	2778	[4609, 1125]	4826	[6270, 6095]	6874	[7552, 1712]
731	[1410, 1411]	2779	[4610, 4611]	4827	[6724, 6725]	6875	[7791, 7701]
732	[1412, 1413]	2780	[3782, 4612]	4828	[6249, 3114]	6876	[7698, 7469]
733	[1414, 1415]	2781	[4613, 4614]	4829	[6726, 3215]	6877	[7336, 4152]
734	[1416, 1417]	2782	[3620, 4615]	4830	[6727, 704]	6878	[4331, 1834]
735	[1418, 1419]	2783	[1831, 4095]	4831	[6728, 6729]	6879	[7400, 7810]
736	[1420, 1421]	2784	[1472, 371]	4832	[6730, 6602]	6880	[7610, 7844]
737	[1422, 341]	2785	[4616, 4617]	4833	[3164, 3116]	6881	[7087, 7055]
738	[1423, 1424]	2786	[1837, 4618]	4834	[6731, 5275]	6882	[1811, 3987]
739	[1425, 1426]	2787	[4619, 4620]	4835	[2248, 6590]	6883	[5014, 1303]
740	[1427, 1428]	2788	[4621, 4622]	4836	[6732, 6733]	6884	[7156, 1110]
741	[1429, 1430]	2789	[4623, 3798]	4837	[2629, 3045]	6885	[443, 4922]
742	[1431, 1432]	2790	[352, 4624]	4838	[5506, 6734]	6886	[7661, 4673]
743	[1433, 1434]	2791	[264, 4625]	4839	[6735, 6736]	6887	[5032, 7247]
744	[1435, 1436]	2792	[1332, 1621]	4840	[3103, 5245]	6888	[3998, 1213]
745	[1437, 1438]	2793	[4626, 4627]	4841	[6737, 6738]	6889	[7834, 7579]
746	[1439, 1440]	2794	[1647, 4628]	4842	[6739, 6190]	6890	[1613, 5166]
747	[1441, 21]	2795	[4629, 1309]	4843	[5846, 6740]	6891	[3738, 1783]
748	[1442, 1443]	2796	[4630, 3894]	4844	[2331, 6741]	6892	[5115, 4648]
749	[1444, 1445]	2797	[4631, 4632]	4845	[2032, 937]	6893	[7501, 7759]
750	[1446, 1447]	2798	[1326, 4633]	4846	[6742, 6743]	6894	[7845, 7028]
751	[1448, 1449]	2799	[427, 4634]	4847	[6601, 513]	6895	[7838, 3611]
752	[1450, 1451]	2800	[433, 479]	4848	[6744, 6745]	6896	[3616, 3964]
753	[1452, 1453]	2801	[1474, 4635]	4849	[6381, 2687]	6897	[5168, 7021]
754	[1454, 1455]	2802	[4636, 4637]	4850	[6746, 5563]	6898	[7398, 4730]

755	[1456, 1457]	2803	[1316, 3552]	4851	[5510, 543]	6899	[3954, 3979]
756	[1458, 1459]	2804	[402, 4638]	4852	[5385, 5448]	6900	[6979, 7397]
757	[1460, 1461]	2805	[4639, 4640]	4853	[6747, 6402]	6901	[7805, 7700]
758	[1462, 1463]	2806	[4641, 4642]	4854	[6748, 6122]	6902	[1250, 7777]
759	[86, 1464]	2807	[4643, 4644]	4855	[2421, 2348]	6903	[4088, 7656]
760	[1465, 1466]	2808	[4645, 1313]	4856	[6749, 686]	6904	[1100, 7829]
761	[1467, 1468]	2809	[4646, 1433]	4857	[5638, 6750]	6905	[1395, 7846]
762	[1469, 1470]	2810	[1651, 4647]	4858	[6635, 6751]	6906	[4231, 4336]
763	[1471, 1472]	2811	[258, 4507]	4859	[6752, 6753]	6907	[1083, 7847]
764	[1386, 393]	2812	[4648, 4649]	4860	[6754, 5879]	6908	[7843, 3569]
765	[1473, 1474]	2813	[3579, 4650]	4861	[6755, 6732]	6909	[7056, 7727]
766	[1475, 1476]	2814	[4651, 1398]	4862	[685, 6756]	6910	[7848, 7842]
767	[1334, 1477]	2815	[4652, 4653]	4863	[6539, 6757]	6911	[7026, 7849]
768	[1478, 1479]	2816	[4342, 81]	4864	[6377, 5362]	6912	[7428, 3541]
769	[1480, 1481]	2817	[3636, 3959]	4865	[6758, 5365]	6913	[3452, 4976]
770	[1482, 1483]	2818	[4654, 4655]	4866	[6759, 6760]	6914	[7535, 7581]
771	[1484, 1485]	2819	[4656, 3401]	4867	[6761, 6762]	6915	[4300, 4118]
772	[1486, 1487]	2820	[4657, 4658]	4868	[2057, 2175]	6916	[7370, 3659]
773	[1488, 1489]	2821	[70, 4659]	4869	[2740, 6763]	6917	[3627, 7143]
774	[1490, 1491]	2822	[4185, 4660]	4870	[2694, 5607]	6918	[7637, 7548]
775	[1492, 1493]	2823	[3734, 4661]	4871	[5888, 6550]	6919	[3521, 7550]
776	[1494, 1495]	2824	[4662, 3451]	4872	[6358, 6764]	6920	[4151, 7633]
777	[1496, 1497]	2825	[4663, 1591]	4873	[6268, 5786]	6921	[7720, 7558]
778	[1498, 1499]	2826	[4219, 1377]	4874	[10, 6765]	6922	[455, 7731]
779	[1500, 1501]	2827	[4093, 1379]	4875	[5397, 6657]	6923	[4003, 1750]
780	[1502, 1503]	2828	[3558, 4664]	4876	[6505, 5304]	6924	[7461, 3728]
781	[1504, 1505]	2829	[4665, 1759]	4877	[6766, 6767]	6925	[7849, 7160]
782	[474, 1506]	2830	[4666, 4667]	4878	[2020, 6722]	6926	[4404, 7679]
783	[1507, 1508]	2831	[4668, 4669]	4879	[6655, 6349]	6927	[7820, 3826]
784	[1509, 1510]	2832	[1624, 1520]	4880	[3285, 2484]	6928	[7694, 4035]
785	[1511, 1512]	2833	[4159, 4194]	4881	[6768, 3323]	6929	[3368, 1863]
786	[1513, 1514]	2834	[3940, 4670]	4882	[6708, 2366]	6930	[7509, 4405]
787	[66, 1515]	2835	[4499, 4671]	4883	[938, 2546]	6931	[7618, 1036]
788	[1516, 1517]	2836	[4672, 1003]	4884	[6769, 6010]	6932	[4671, 1187]
789	[1518, 1519]	2837	[4673, 3908]	4885	[514, 5927]	6933	[7594, 1836]
790	[1520, 1521]	2838	[4674, 4675]	4886	[2971, 892]	6934	[7595, 5153]
791	[388, 1522]	2839	[4676, 4677]	4887	[526, 5826]	6935	[4444, 5029]
792	[1523, 999]	2840	[4029, 4678]	4888	[6729, 570]	6936	[7115, 7587]
793	[1524, 1525]	2841	[4679, 1281]	4889	[6544, 2422]	6937	[1208, 5011]
794	[1526, 1527]	2842	[4680, 1050]	4890	[5918, 5489]	6938	[7379, 5213]
795	[1528, 1529]	2843	[4273, 4681]	4891	[5999, 2886]	6939	[7726, 7536]
796	[1530, 1531]	2844	[1734, 1818]	4892	[6770, 6771]	6940	[4301, 4736]
797	[1532, 1533]	2845	[4682, 4460]	4893	[1930, 2874]	6941	[3655, 3362]
798	[1534, 1535]	2846	[4683, 4684]	4894	[2203, 5309]	6942	[7782, 7850]

799	[1536, 1537]	2847	[4685, 4686]	4895	[5429, 6772]	6943	[3442, 4739]
800	[1538, 1539]	2848	[4687, 4688]	4896	[2864, 6699]	6944	[7851, 5917]
801	[1540, 1541]	2849	[4689, 4690]	4897	[248, 3207]	6945	[7852, 6108]
802	[1542, 1543]	2850	[4691, 4692]	4898	[6751, 5567]	6946	[953, 6121]
803	[1544, 1545]	2851	[4412, 1486]	4899	[2459, 5822]	6947	[1934, 2990]
804	[1546, 1191]	2852	[4693, 4694]	4900	[6773, 508]	6948	[6681, 7853]
805	[1364, 1547]	2853	[4695, 4696]	4901	[6771, 5378]	6949	[6319, 6298]
806	[1548, 1549]	2854	[4307, 434]	4902	[5761, 6774]	6950	[2920, 2063]
807	[1550, 1551]	2855	[1858, 4697]	4903	[6775, 6776]	6951	[6626, 5536]
808	[1552, 1553]	2856	[3973, 4698]	4904	[1890, 5262]	6952	[5616, 7854]
809	[1554, 1555]	2857	[4699, 3469]	4905	[2016, 6777]	6953	[6683, 947]
810	[1556, 1557]	2858	[4700, 4701]	4906	[842, 2444]	6954	[7855, 7856]
811	[1558, 1559]	2859	[1862, 4702]	4907	[6778, 5795]	6955	[7857, 6156]
812	[1560, 1561]	2860	[3480, 4703]	4908	[2043, 5707]	6956	[750, 6735]
813	[1562, 1563]	2861	[3905, 4424]	4909	[6546, 923]	6957	[7858, 3265]
814	[1564, 1565]	2862	[4704, 4705]	4910	[6205, 6604]	6958	[7859, 6556]
815	[1566, 1567]	2863	[4706, 4707]	4911	[6502, 6779]	6959	[6923, 2306]
816	[1568, 1350]	2864	[4708, 4709]	4912	[6780, 5793]	6960	[7860, 2341]
817	[1449, 1569]	2865	[4710, 3674]	4913	[6059, 2487]	6961	[7861, 6589]
818	[1570, 1571]	2866	[4711, 3547]	4914	[588, 6070]	6962	[6779, 6899]
819	[1572, 1573]	2867	[4712, 4713]	4915	[6781, 2055]	6963	[5725, 7862]
820	[1574, 1575]	2868	[4714, 4310]	4916	[2457, 6782]	6964	[5950, 2786]
821	[1576, 1577]	2869	[4580, 1870]	4917	[6783, 3135]	6965	[6116, 6237]
822	[1578, 1579]	2870	[4215, 4289]	4918	[3270, 3298]	6966	[2167, 7863]
823	[1580, 1581]	2871	[4715, 4716]	4919	[6784, 6485]	6967	[606, 6372]
824	[1582, 1583]	2872	[4524, 4186]	4920	[6641, 6636]	6968	[6824, 6801]
825	[1584, 361]	2873	[3526, 4717]	4921	[6785, 6786]	6969	[7864, 7865]
826	[1585, 1586]	2874	[4718, 4315]	4922	[6787, 3121]	6970	[6466, 6529]
827	[1587, 1588]	2875	[4719, 4358]	4923	[695, 1981]	6971	[6276, 7866]
828	[1589, 1590]	2876	[4720, 4674]	4924	[6788, 5578]	6972	[7867, 2196]
829	[1591, 1592]	2877	[3546, 4721]	4925	[2558, 209]	6973	[6471, 7868]
830	[1593, 1594]	2878	[4722, 4723]	4926	[6723, 2472]	6974	[2852, 2046]
831	[1595, 1596]	2879	[4653, 4724]	4927	[6725, 6052]	6975	[5337, 5886]
832	[1597, 1598]	2880	[4108, 1347]	4928	[516, 5814]	6976	[3043, 6146]
833	[1599, 1600]	2881	[4725, 4726]	4929	[2151, 2563]	6977	[6346, 7869]
834	[1601, 1602]	2882	[4727, 4728]	4930	[5299, 6789]	6978	[6618, 6376]
835	[1603, 1604]	2883	[4729, 1852]	4931	[6790, 2123]	6979	[7870, 6086]
836	[1605, 1352]	2884	[4730, 4731]	4932	[3272, 6295]	6980	[2286, 6202]
837	[1606, 1607]	2885	[126, 4732]	4933	[6791, 2586]	6981	[3059, 6839]
838	[1608, 1609]	2886	[3813, 4111]	4934	[6792, 2878]	6982	[5812, 7871]
839	[1610, 1611]	2887	[4733, 4734]	4935	[5976, 6793]	6983	[6807, 7872]
840	[1612, 1613]	2888	[1505, 4735]	4936	[6672, 6794]	6984	[2686, 6373]
841	[1614, 1615]	2889	[4736, 4737]	4937	[930, 6687]	6985	[5237, 6045]
842	[1616, 1617]	2890	[4419, 4738]	4938	[6667, 5409]	6986	[5518, 2190]

843	[1559, 1618]	2891	[4739, 1082]	4939	[6648, 1907]	6987	[6046, 3221]
844	[1241, 1619]	2892	[4740, 4741]	4940	[6650, 6795]	6988	[6443, 7873]
845	[1620, 1329]	2893	[1643, 3745]	4941	[6109, 6796]	6989	[7874, 2868]
846	[1621, 1622]	2894	[4742, 4582]	4942	[2338, 6797]	6990	[6926, 2]
847	[1623, 1624]	2895	[4743, 4744]	4943	[6798, 670]	6991	[962, 2707]
848	[1625, 1626]	2896	[4745, 4746]	4944	[5912, 6157]	6992	[2067, 7875]
849	[1627, 1628]	2897	[4747, 4748]	4945	[6521, 6799]	6993	[5552, 6056]
850	[1188, 1629]	2898	[1196, 1013]	4946	[2387, 5735]	6994	[6822, 2604]
851	[1630, 1631]	2899	[4277, 4749]	4947	[2801, 3038]	6995	[3162, 2605]
852	[1632, 1633]	2900	[4110, 4750]	4948	[5566, 2287]	6996	[2279, 7876]
853	[1165, 1634]	2901	[1260, 1480]	4949	[6800, 2309]	6997	[6736, 2638]
854	[1635, 1636]	2902	[1506, 4751]	4950	[6801, 6783]	6998	[5392, 5551]
855	[1637, 1375]	2903	[4350, 4752]	4951	[6359, 6802]	6999	[824, 2592]
856	[1638, 1639]	2904	[4753, 4754]	4952	[6706, 5648]	7000	[7877, 6271]
857	[1640, 1641]	2905	[4077, 4755]	4953	[508, 6803]	7001	[644, 227]
858	[1642, 1643]	2906	[4756, 4025]	4954	[5415, 2052]	7002	[7878, 2576]
859	[1644, 1645]	2907	[4757, 4758]	4955	[6804, 6387]	7003	[6501, 5769]
860	[1646, 1647]	2908	[4759, 3377]	4956	[2860, 6128]	7004	[628, 5635]
861	[1648, 1649]	2909	[4760, 4761]	4957	[6805, 6129]	7005	[6088, 7879]
862	[1650, 1627]	2910	[1044, 4762]	4958	[683, 2466]	7006	[6196, 6649]
863	[1004, 1651]	2911	[4763, 4764]	4959	[6233, 6718]	7007	[7880, 2251]
864	[1652, 1653]	2912	[4506, 3332]	4960	[6806, 6807]	7008	[7881, 7882]
865	[1654, 1655]	2913	[4765, 4766]	4961	[6808, 6248]	7009	[7883, 6261]
866	[1656, 1657]	2914	[4767, 4768]	4962	[6809, 6082]	7010	[2397, 647]
867	[1658, 1659]	2915	[4612, 4769]	4963	[6810, 6342]	7011	[6743, 6284]
868	[1660, 1661]	2916	[1157, 4770]	4964	[6811, 6812]	7012	[777, 5531]
869	[1662, 1663]	2917	[3632, 4771]	4965	[6813, 6775]	7013	[2698, 2072]
870	[1664, 1665]	2918	[1018, 503]	4966	[6814, 6761]	7014	[932, 7884]
871	[1666, 1667]	2919	[4772, 4773]	4967	[5957, 6815]	7015	[3024, 7885]
872	[1668, 1669]	2920	[4323, 1502]	4968	[6816, 6817]	7016	[5893, 5810]
873	[92, 1670]	2921	[4774, 997]	4969	[5698, 6503]	7017	[2827, 714]
874	[1671, 1672]	2922	[4775, 4776]	4970	[6818, 6659]	7018	[6015, 541]
875	[1673, 1674]	2923	[1079, 4268]	4971	[6292, 6819]	7019	[7886, 7887]
876	[1675, 1676]	2924	[3899, 1416]	4972	[128, 6592]	7020	[7888, 7889]
877	[1677, 1534]	2925	[4777, 4065]	4973	[6820, 900]	7021	[6437, 6203]
878	[1678, 1679]	2926	[3765, 4778]	4974	[6080, 6477]	7022	[2841, 7890]
879	[1680, 1681]	2927	[4779, 4780]	4975	[5670, 6821]	7023	[2209, 7891]
880	[1107, 1682]	2928	[4781, 4782]	4976	[5738, 5637]	7024	[7892, 6909]
881	[1683, 259]	2929	[4783, 4682]	4977	[2191, 6822]	7025	[7893, 7894]
882	[1684, 1685]	2930	[4784, 401]	4978	[6823, 3145]	7026	[2265, 5310]
883	[1686, 1687]	2931	[4785, 4786]	4979	[2143, 6824]	7027	[5487, 5384]
884	[1688, 1689]	2932	[3577, 4787]	4980	[2951, 2894]	7028	[7873, 5244]
885	[1690, 1691]	2933	[4788, 4789]	4981	[2850, 3313]	7029	[6680, 643]
886	[1692, 1693]	2934	[4790, 4791]	4982	[5421, 6493]	7030	[6733, 3102]

887	[1694, 1695]	2935	[4792, 4564]	4983	[6825, 6826]	7031	[7895, 6198]
888	[1696, 1697]	2936	[4793, 383]	4984	[2984, 2264]	7032	[2018, 6005]
889	[1698, 1699]	2937	[3348, 4794]	4985	[5747, 6421]	7033	[6793, 3216]
890	[1700, 1701]	2938	[1202, 4795]	4986	[6827, 2282]	7034	[2724, 5680]
891	[1702, 1703]	2939	[4737, 4796]	4987	[6828, 2557]	7035	[2180, 3191]
892	[1704, 1705]	2940	[4797, 4523]	4988	[6588, 6829]	7036	[7896, 3230]
893	[1706, 1707]	2941	[4798, 4652]	4989	[3035, 6575]	7037	[234, 7896]
894	[1708, 1709]	2942	[4799, 4800]	4990	[6826, 5236]	7038	[2631, 5525]
895	[1710, 1711]	2943	[4801, 4274]	4991	[5504, 6510]	7039	[7897, 5889]
896	[1712, 1713]	2944	[4802, 4803]	4992	[6830, 6831]	7040	[5676, 6273]
897	[1214, 1714]	2945	[4804, 4805]	4993	[2684, 3314]	7041	[6799, 3127]
898	[1715, 1716]	2946	[1344, 1144]	4994	[3146, 6832]	7042	[2155, 2163]
899	[1717, 1718]	2947	[3835, 4806]	4995	[5988, 5821]	7043	[2655, 5435]
900	[1719, 1720]	2948	[3686, 4807]	4996	[6061, 6833]	7044	[7898, 7899]
901	[1721, 1722]	2949	[4808, 4261]	4997	[5986, 729]	7045	[7900, 2957]
902	[1723, 1724]	2950	[3612, 4809]	4998	[974, 2660]	7046	[3154, 7901]
903	[1725, 1726]	2951	[4247, 4810]	4999	[2817, 5261]	7047	[6394, 5907]
904	[1727, 1728]	2952	[1109, 4811]	5000	[6184, 902]	7048	[6464, 3312]
905	[1729, 1730]	2953	[4812, 4813]	5001	[1914, 6834]	7049	[673, 3236]
906	[1731, 1732]	2954	[4814, 4815]	5002	[5802, 6835]	7050	[2791, 6859]
907	[1733, 1734]	2955	[4816, 1088]	5003	[2395, 6836]	7051	[2927, 7902]
908	[1735, 1736]	2956	[4817, 4818]	5004	[5727, 6748]	7052	[7903, 2486]
909	[1737, 1738]	2957	[4819, 4820]	5005	[2956, 6541]	7053	[6871, 2828]
910	[1703, 1739]	2958	[4821, 1652]	5006	[6078, 6837]	7054	[6581, 2021]
911	[1740, 1741]	2959	[312, 424]	5007	[6838, 6411]	7055	[5426, 7904]
912	[1742, 1743]	2960	[3466, 4822]	5008	[2400, 5445]	7056	[6637, 6057]
913	[1744, 1745]	2961	[4823, 4824]	5009	[6028, 2119]	7057	[228, 735]
914	[1746, 1747]	2962	[4825, 4826]	5010	[6653, 5736]	7058	[3151, 5543]
915	[1748, 1749]	2963	[4827, 4828]	5011	[6839, 6840]	7059	[3214, 5507]
916	[1750, 1751]	2964	[4829, 4830]	5012	[6841, 2208]	7060	[6515, 5975]
917	[1752, 1753]	2965	[4831, 4832]	5013	[5871, 5954]	7061	[2761, 7905]
918	[1336, 1754]	2966	[4833, 4689]	5014	[6842, 2442]	7062	[2664, 2431]
919	[1755, 1756]	2967	[3464, 4834]	5015	[6473, 3246]	7063	[5267, 6427]
920	[1757, 1758]	2968	[4835, 4836]	5016	[6843, 6844]	7064	[7906, 6457]
921	[1759, 1760]	2969	[3807, 4695]	5017	[2429, 6707]	7065	[6910, 3187]
922	[1761, 1762]	2970	[4796, 4837]	5018	[2855, 5483]	7066	[6772, 6144]
923	[1763, 1764]	2971	[4838, 4839]	5019	[6845, 6481]	7067	[7907, 2928]
924	[1765, 1766]	2972	[1856, 1423]	5020	[6195, 716]	7068	[6679, 5271]
925	[1767, 1768]	2973	[4840, 4841]	5021	[5982, 5295]	7069	[6745, 6647]
926	[1769, 1770]	2974	[1598, 4842]	5022	[972, 5733]	7070	[5449, 3205]
927	[1771, 1772]	2975	[4843, 4226]	5023	[6211, 6846]	7071	[7905, 7908]
928	[1773, 1774]	2976	[4844, 1509]	5024	[5373, 5425]	7072	[889, 6003]
929	[1775, 1776]	2977	[4845, 4846]	5025	[6847, 6848]	7073	[2275, 6642]
930	[1777, 1778]	2978	[4847, 4848]	5026	[5417, 6849]	7074	[2238, 6442]

931	[1779, 1780]	2979	[4369, 4849]	5027	[6850, 920]	7075	[6455, 6382]
932	[1781, 1782]	2980	[298, 1448]	5028	[6767, 6851]	7076	[7909, 7883]
933	[1783, 1558]	2981	[3501, 1444]	5029	[5962, 5740]	7077	[7910, 7911]
934	[1784, 1785]	2982	[4280, 1446]	5030	[6599, 5281]	7078	[7912, 627]
935	[1786, 1787]	2983	[4850, 3598]	5031	[5913, 6852]	7079	[2788, 5557]
936	[1788, 1666]	2984	[4851, 3928]	5032	[6853, 2496]	7080	[2045, 6644]
937	[1789, 1790]	2985	[4852, 4853]	5033	[5658, 2742]	7081	[5231, 2078]
938	[1791, 1792]	2986	[4854, 4855]	5034	[6854, 6476]	7082	[7901, 6266]
939	[1793, 1794]	2987	[4856, 4857]	5035	[2623, 5666]	7083	[6638, 6773]
940	[1795, 1796]	2988	[4858, 1832]	5036	[6855, 696]	7084	[5274, 7913]
941	[1797, 1798]	2989	[4859, 4860]	5037	[6856, 6857]	7085	[5984, 6917]
942	[1799, 1800]	2990	[4861, 1393]	5038	[6622, 157]	7086	[6867, 5979]
943	[1801, 1802]	2991	[3427, 3562]	5039	[158, 2263]	7087	[2618, 2337]
944	[1803, 1804]	2992	[4862, 4863]	5040	[3311, 6858]	7088	[6560, 7914]
945	[1805, 1806]	2993	[3922, 1270]	5041	[6859, 6232]	7089	[3053, 6737]
946	[1807, 1808]	2994	[4864, 3437]	5042	[2382, 5260]	7090	[7915, 914]
947	[1809, 1550]	2995	[4865, 3439]	5043	[6860, 6861]	7091	[6049, 7916]
948	[1810, 1811]	2996	[4866, 4867]	5044	[6862, 2222]	7092	[746, 2313]
949	[1812, 1813]	2997	[4868, 1152]	5045	[512, 5819]	7093	[6051, 796]
950	[1814, 1815]	2998	[4869, 4666]	5046	[764, 5273]	7094	[5887, 6329]
951	[1816, 1817]	2999	[4870, 3633]	5047	[1885, 6863]	7095	[6532, 7917]
952	[1818, 1819]	3000	[1348, 3832]	5048	[6864, 6865]	7096	[3248, 6900]
953	[1820, 1821]	3001	[4155, 4808]	5049	[6296, 6809]	7097	[6757, 6827]
954	[1822, 1823]	3002	[3876, 4871]	5050	[6188, 2304]	7098	[2704, 6791]
955	[1824, 1825]	3003	[4872, 4873]	5051	[6669, 6866]	7099	[7918, 3094]
956	[1118, 1826]	3004	[4874, 4875]	5052	[5495, 6867]	7100	[2475, 2721]
957	[1827, 1828]	3005	[4382, 4876]	5053	[5981, 6868]	7101	[1980, 243]
958	[268, 1829]	3006	[4877, 1820]	5054	[2437, 6828]	7102	[7919, 662]
959	[1830, 1831]	3007	[419, 1119]	5055	[6869, 6870]	7103	[5645, 7874]
960	[1832, 1833]	3008	[4878, 1786]	5056	[6598, 6573]	7104	[2893, 6444]
961	[1834, 1835]	3009	[3848, 4879]	5057	[5765, 931]	7105	[2195, 39]
962	[1836, 1837]	3010	[4880, 4163]	5058	[552, 2712]	7106	[6272, 6064]
963	[1838, 1839]	3011	[4881, 3934]	5059	[2783, 6871]	7107	[7920, 5400]
964	[358, 1840]	3012	[492, 4882]	5060	[6872, 6873]	7108	[6353, 7867]
965	[1841, 1842]	3013	[1508, 4603]	5061	[6753, 5595]	7109	[6643, 6147]
966	[1843, 1844]	3014	[480, 4883]	5062	[6250, 6792]	7110	[6834, 5863]
967	[1845, 1846]	3015	[3945, 4884]	5063	[2672, 698]	7111	[6571, 950]
968	[1847, 1848]	3016	[4885, 4886]	5064	[6874, 6875]	7112	[6314, 6586]
969	[1849, 1850]	3017	[4697, 4887]	5065	[6876, 6543]	7113	[2700, 2683]
970	[478, 1851]	3018	[4888, 1169]	5066	[6877, 6878]	7114	[2039, 6105]
971	[1852, 1853]	3019	[4889, 4890]	5067	[5255, 2510]	7115	[2288, 2514]
972	[116, 1854]	3020	[4891, 1578]	5068	[626, 5911]	7116	[6035, 6102]
973	[1855, 1856]	3021	[4892, 4893]	5069	[6225, 5697]	7117	[6552, 6441]
974	[1857, 1858]	3022	[1145, 4894]	5070	[6734, 6879]	7118	[5282, 6731]

975	[1850, 1658]	3023	[4895, 4693]	5071	[2477, 6299]	7119	[6777, 3269]
976	[1859, 1860]	3024	[4130, 4896]	5072	[2186, 6880]	7120	[6815, 5825]
977	[1861, 1862]	3025	[124, 4897]	5073	[6881, 2266]	7121	[3178, 6395]
978	[1863, 1650]	3026	[4898, 4899]	5074	[2792, 2298]	7122	[5719, 6781]
979	[1864, 1678]	3027	[4004, 3457]	5075	[6882, 2301]	7123	[2988, 2438]
980	[1231, 1865]	3028	[1239, 4844]	5076	[616, 5288]	7124	[7879, 6640]
981	[1866, 1867]	3029	[4900, 263]	5077	[5600, 6883]	7125	[6330, 5277]
982	[1868, 1869]	3030	[4901, 4662]	5078	[6884, 6244]	7126	[567, 2625]
983	[1870, 1871]	3031	[4902, 4538]	5079	[6445, 2662]	7127	[6863, 3252]
984	[1872, 1873]	3032	[4903, 3481]	5080	[2441, 6348]	7128	[6139, 7921]
985	[1874, 1875]	3033	[4904, 3367]	5081	[5407, 6255]	7129	[5881, 7922]
986	[1876, 1877]	3034	[3381, 4905]	5082	[6885, 2890]	7130	[3223, 7923]
987	[1878, 1879]	3035	[3836, 3726]	5083	[6886, 6120]	7131	[2863, 2535]
988	[1880, 1881]	3036	[4906, 1640]	5084	[2410, 5502]	7132	[212, 6563]
989	[1882, 1883]	3037	[3440, 3768]	5085	[6300, 1991]	7133	[5223, 6677]
990	[1884, 1885]	3038	[1476, 1791]	5086	[6301, 53]	7134	[7924, 5884]
991	[1886, 564]	3039	[1823, 485]	5087	[182, 215]	7135	[7925, 5586]
992	[1887, 1888]	3040	[4907, 4908]	5088	[5930, 5246]	7136	[6042, 5841]
993	[1889, 1890]	3041	[4909, 4415]	5089	[3158, 6887]	7137	[7871, 5511]
994	[1891, 1892]	3042	[4910, 4188]	5090	[5681, 6048]	7138	[5785, 7900]
995	[1893, 1894]	3043	[4911, 4912]	5091	[6062, 2218]	7139	[6150, 2895]
996	[1895, 1896]	3044	[3527, 4435]	5092	[6870, 6018]	7140	[7885, 7926]
997	[1897, 1898]	3045	[4913, 1150]	5093	[6469, 6888]	7141	[7927, 3284]
998	[1899, 1900]	3046	[3915, 4914]	5094	[6407, 787]	7142	[6006, 7928]
999	[1901, 1902]	3047	[1059, 64]	5095	[6612, 5549]	7143	[2030, 6727]
1000	[1903, 1904]	3048	[4915, 4916]	5096	[5895, 6889]	7144	[7929, 7919]
1001	[1905, 1906]	3049	[4917, 1064]	5097	[6789, 6890]	7145	[6366, 6183]
1002	[1907, 1908]	3050	[4918, 4919]	5098	[6665, 6891]	7146	[2373, 6811]
1003	[1909, 1910]	3051	[4920, 4921]	5099	[1988, 3288]	7147	[2415, 7930]
1004	[1911, 1912]	3052	[4922, 4216]	5100	[6892, 6523]	7148	[7931, 2454]
1005	[1913, 1914]	3053	[4923, 1232]	5101	[6107, 6893]	7149	[7917, 2156]
1006	[1915, 1916]	3054	[1477, 4161]	5102	[1978, 6020]	7150	[6332, 6245]
1007	[1917, 1918]	3055	[3760, 4924]	5103	[144, 5915]	7151	[7872, 2719]
1008	[1919, 1920]	3056	[4634, 4925]	5104	[2566, 6894]	7152	[6254, 6258]
1009	[1921, 1922]	3057	[338, 1500]	5105	[5484, 3141]	7153	[6217, 587]
1010	[1923, 1924]	3058	[4826, 4926]	5106	[949, 6882]	7154	[2991, 6207]
1011	[1925, 1926]	3059	[4828, 4927]	5107	[3097, 5868]	7155	[2007, 6465]
1012	[1927, 1928]	3060	[4494, 4285]	5108	[6162, 6895]	7156	[7932, 5685]
1013	[1929, 1930]	3061	[4614, 4179]	5109	[2942, 6896]	7157	[6929, 2818]
1014	[1931, 1932]	3062	[4928, 1773]	5110	[6570, 5330]	7158	[2300, 7933]
1015	[1933, 1934]	3063	[4929, 4930]	5111	[2982, 749]	7159	[6646, 128]
1016	[1935, 1936]	3064	[4931, 1123]	5112	[5593, 751]	7160	[7934, 7861]
1017	[1937, 1938]	3065	[4932, 4933]	5113	[6506, 2138]	7161	[1879, 7935]
1018	[1939, 583]	3066	[4934, 3706]	5114	[2273, 6608]	7162	[7936, 6452]

1019	[1940, 1941]	3067	[4935, 4936]	5115	[6897, 5491]	7163	[756, 6420]
1020	[1942, 1943]	3068	[292, 4715]	5116	[6399, 6898]	7164	[7937, 6023]
1021	[1944, 1945]	3069	[4937, 1029]	5117	[5840, 2849]	7165	[7938, 6726]
1022	[1946, 1947]	3070	[4124, 4938]	5118	[2446, 239]	7166	[7939, 577]
1023	[1948, 1949]	3071	[4939, 4940]	5119	[6899, 2296]	7167	[830, 6285]
1024	[1950, 829]	3072	[1555, 411]	5120	[6479, 6281]	7168	[7940, 6565]
1025	[1951, 1952]	3073	[4941, 4055]	5121	[6900, 3142]	7169	[5364, 7941]
1026	[1953, 1954]	3074	[4574, 4071]	5122	[919, 6418]	7170	[7942, 6862]
1027	[1955, 1956]	3075	[1243, 4942]	5123	[6803, 964]	7171	[6033, 2261]
1028	[1957, 1958]	3076	[4943, 4944]	5124	[6338, 6488]	7172	[6620, 6467]
1029	[1959, 1960]	3077	[4945, 4038]	5125	[6901, 6545]	7173	[7866, 5987]
1030	[1961, 1962]	3078	[1796, 3335]	5126	[944, 2580]	7174	[2423, 3309]
1031	[1963, 1964]	3079	[4946, 4947]	5127	[5513, 6693]	7175	[6440, 6769]
1032	[1965, 1966]	3080	[4948, 4949]	5128	[3031, 2824]	7176	[6705, 6069]
1033	[1967, 1968]	3081	[4950, 4951]	5129	[6277, 6902]	7177	[232, 2582]
1034	[618, 1969]	3082	[4791, 4952]	5130	[6903, 1999]	7178	[5754, 968]
1035	[1970, 1971]	3083	[4953, 4076]	5131	[6904, 2346]	7179	[6891, 6901]
1036	[184, 1972]	3084	[4954, 1061]	5132	[6905, 6906]	7180	[6540, 7943]
1037	[1973, 1974]	3085	[4955, 3423]	5133	[6907, 6744]	7181	[7944, 6689]
1038	[1975, 1976]	3086	[4956, 4957]	5134	[2708, 137]	7182	[6935, 723]
1039	[1936, 896]	3087	[346, 4958]	5135	[1949, 6908]	7183	[6738, 2658]
1040	[1977, 1978]	3088	[4842, 4928]	5136	[3079, 1880]	7184	[7945, 3066]
1041	[1979, 1980]	3089	[1047, 4533]	5137	[1986, 5257]	7185	[7935, 7934]
1042	[1981, 1982]	3090	[1631, 4959]	5138	[6909, 6910]	7186	[6896, 7946]
1043	[905, 767]	3091	[4960, 4961]	5139	[6911, 5610]	7187	[5289, 5603]
1044	[1983, 1984]	3092	[4962, 4963]	5140	[5792, 5715]	7188	[7947, 5632]
1045	[1985, 1986]	3093	[4964, 4548]	5141	[6912, 2031]	7189	[2776, 2092]
1046	[1987, 1988]	3094	[1277, 4859]	5142	[5973, 6913]	7190	[5615, 1939]
1047	[1989, 1990]	3095	[4746, 377]	5143	[6621, 5614]	7191	[6832, 6595]
1048	[1991, 1992]	3096	[4815, 4965]	5144	[5251, 6024]	7192	[6334, 5500]
1049	[1993, 1994]	3097	[4966, 4866]	5145	[6914, 6915]	7193	[5691, 2548]
1050	[1995, 802]	3098	[4967, 4968]	5146	[6304, 2867]	7194	[935, 145]
1051	[1996, 1997]	3099	[3711, 4969]	5147	[5743, 6916]	7195	[7948, 890]
1052	[1998, 566]	3100	[1535, 4970]	5148	[6887, 6625]	7196	[5458, 5758]
1053	[1999, 2000]	3101	[1726, 4971]	5149	[1994, 2403]	7197	[6294, 3250]
1054	[2001, 2002]	3102	[4972, 3749]	5150	[6795, 6911]	7198	[5704, 6639]
1055	[2003, 1961]	3103	[3725, 4973]	5151	[6917, 6746]	7199	[230, 6842]
1056	[2004, 2005]	3104	[4974, 4308]	5152	[5331, 3032]	7200	[6569, 6701]
1057	[2006, 2007]	3105	[4045, 4975]	5153	[6918, 800]	7201	[7949, 6830]
1058	[2008, 129]	3106	[4976, 4645]	5154	[6919, 2332]	7202	[7911, 7950]
1059	[2009, 2010]	3107	[4977, 4978]	5155	[2436, 611]	7203	[6177, 6918]
1060	[828, 2011]	3108	[4979, 4980]	5156	[6920, 6674]	7204	[569, 6904]
1061	[2012, 2013]	3109	[4981, 4982]	5157	[6878, 6921]	7205	[6684, 7951]
1062	[2014, 2015]	3110	[3858, 4983]	5158	[2848, 5396]	7206	[6221, 5807]

1063	[663, 2016]	3111	[4984, 1199]	5159	[1916, 3006]	7207	[7952, 839]
1064	[2017, 2018]	3112	[3866, 1381]	5160	[6922, 737]	7208	[7953, 2960]
1065	[2019, 2020]	3113	[4985, 4986]	5161	[2587, 6685]	7209	[5621, 3078]
1066	[2021, 2022]	3114	[1659, 4495]	5162	[6534, 6923]	7210	[2622, 6696]
1067	[2023, 2024]	3115	[1655, 4987]	5163	[2385, 2899]	7211	[6763, 6230]
1068	[2025, 2026]	3116	[4988, 4989]	5164	[5858, 6007]	7212	[2439, 3267]
1069	[2027, 2028]	3117	[4990, 4991]	5165	[6924, 5763]	7213	[6902, 6483]
1070	[2029, 2030]	3118	[372, 4992]	5166	[174, 6755]	7214	[5947, 3000]
1071	[2031, 2032]	3119	[4993, 4294]	5167	[3291, 2365]	7215	[6888, 7912]
1072	[2033, 2034]	3120	[4994, 4334]	5168	[6494, 5561]	7216	[5438, 2964]
1073	[2035, 2036]	3121	[4692, 3861]	5169	[5712, 2845]	7217	[5899, 6524]
1074	[2037, 904]	3122	[4995, 1511]	5170	[6925, 2628]	7218	[5591, 6228]
1075	[2038, 2039]	3123	[3975, 351]	5171	[6486, 2085]	7219	[3052, 2745]
1076	[2040, 2041]	3124	[4996, 4995]	5172	[801, 5292]	7220	[5382, 5634]
1077	[2042, 2043]	3125	[4997, 4998]	5173	[6660, 6926]	7221	[7921, 7954]
1078	[2044, 2045]	3126	[4999, 5000]	5174	[5311, 6927]	7222	[5339, 7955]
1079	[2046, 2047]	3127	[5001, 5002]	5175	[6009, 6730]	7223	[2076, 1996]
1080	[2048, 2049]	3128	[4873, 1439]	5176	[5628, 6928]	7224	[2399, 5478]
1081	[2050, 2051]	3129	[5003, 4718]	5177	[6714, 6853]	7225	[740, 7956]
1082	[2052, 2053]	3130	[5004, 5005]	5178	[2568, 5599]	7226	[6365, 6597]
1083	[2054, 1899]	3131	[5006, 5007]	5179	[3180, 617]	7227	[6425, 6703]
1084	[2055, 778]	3132	[274, 5008]	5180	[6833, 6855]	7228	[2798, 2166]
1085	[2056, 2057]	3133	[5009, 1345]	5181	[6037, 6856]	7229	[871, 7957]
1086	[2058, 2037]	3134	[322, 5010]	5182	[1906, 6929]	7230	[3327, 7958]
1087	[2059, 2060]	3135	[5011, 5012]	5183	[6930, 5234]	7231	[5521, 6925]
1088	[2061, 2062]	3136	[3468, 3498]	5184	[3069, 6931]	7232	[6831, 5629]
1089	[2063, 2064]	3137	[1569, 4880]	5185	[2522, 3287]	7233	[3150, 7959]
1090	[857, 2065]	3138	[5013, 4881]	5186	[5381, 6578]	7234	[5808, 5452]
1091	[2066, 2067]	3139	[3795, 5014]	5187	[6286, 2284]	7235	[2978, 6805]
1092	[2068, 2069]	3140	[4477, 5015]	5188	[6716, 6932]	7236	[6484, 5771]
1093	[520, 2070]	3141	[5016, 4568]	5189	[6325, 2140]	7237	[5403, 7960]
1094	[2071, 1921]	3142	[5017, 5018]	5190	[6933, 961]	7238	[6868, 6000]
1095	[2072, 816]	3143	[5019, 1103]	5191	[2174, 35]	7239	[6927, 2198]
1096	[2073, 2074]	3144	[94, 4814]	5192	[5701, 5796]	7240	[3251, 7915]
1097	[2075, 2076]	3145	[3814, 3349]	5193	[5446, 6468]	7241	[5916, 7961]
1098	[2077, 753]	3146	[5020, 5021]	5194	[5284, 6148]	7242	[7962, 5408]
1099	[2078, 2079]	3147	[3572, 5022]	5195	[6934, 6257]	7243	[6235, 6478]
1100	[2080, 2081]	3148	[5023, 5024]	5196	[3107, 6393]	7244	[6389, 1935]
1101	[2082, 2083]	3149	[1804, 5025]	5197	[6695, 6877]	7245	[7960, 5383]
1102	[2084, 966]	3150	[5026, 1660]	5198	[5481, 6935]	7246	[6861, 6675]
1103	[2085, 2086]	3151	[5027, 3567]	5199	[5532, 6448]	7247	[6852, 2555]
1104	[1969, 2087]	3152	[3436, 5028]	5200	[6936, 5936]	7248	[6931, 5830]
1105	[2088, 2089]	3153	[5029, 4441]	5201	[3322, 6344]	7249	[6165, 7903]
1106	[2090, 2091]	3154	[1356, 1078]	5202	[6405, 6784]	7250	[6155, 6584]

1107	[2092, 2093]	3155	[68, 4621]	5203	[6937, 5328]	7251	[897, 5300]
1108	[2094, 2095]	3156	[5030, 3380]	5204	[2806, 6938]	7252	[7963, 5756]
1109	[2096, 2097]	3157	[5031, 5032]	5205	[5422, 5934]	7253	[7959, 6933]
1110	[2098, 2099]	3158	[5033, 5034]	5206	[6939, 5985]	7254	[7876, 7964]
1111	[2100, 2101]	3159	[5035, 4729]	5207	[6940, 2888]	7255	[559, 6907]
1112	[2102, 702]	3160	[5036, 5037]	5208	[779, 2025]	7256	[6430, 7910]
1113	[2103, 2104]	3161	[5038, 77]	5209	[6426, 5360]	7257	[5249, 5469]
1114	[2105, 2106]	3162	[1067, 4401]	5210	[3245, 556]	7258	[5650, 2094]
1115	[2107, 2108]	3163	[1669, 4988]	5211	[2281, 835]	7259	[5753, 7880]
1116	[2109, 2029]	3164	[5039, 3733]	5212	[5939, 6800]	7260	[2749, 7963]
1117	[2110, 13]	3165	[5040, 5041]	5213	[6629, 6029]	7261	[7965, 6151]
1118	[2111, 2112]	3166	[506, 1148]	5214	[876, 6941]	7262	[2201, 6113]
1119	[2113, 2114]	3167	[5042, 3365]	5215	[6942, 6181]	7263	[6021, 7966]
1120	[2115, 2116]	3168	[1216, 5043]	5216	[6943, 3051]	7264	[6658, 7967]
1121	[2117, 2118]	3169	[5044, 305]	5217	[6944, 6945]	7265	[5952, 6936]
1122	[2119, 2120]	3170	[1288, 5045]	5218	[488, 6946]	7266	[7943, 3181]
1123	[2121, 2122]	3171	[5046, 5047]	5219	[3762, 4740]	7267	[2995, 1940]
1124	[2123, 2124]	3172	[5048, 5049]	5220	[4103, 4399]	7268	[7966, 2129]
1125	[2125, 2126]	3173	[5050, 5051]	5221	[1525, 6947]	7269	[2747, 7965]
1126	[2127, 2128]	3174	[5052, 1803]	5222	[6948, 420]	7270	[2526, 3159]
1127	[2129, 2130]	3175	[5053, 5054]	5223	[4457, 4553]	7271	[5623, 6531]
1128	[2131, 2132]	3176	[4992, 5055]	5224	[4978, 6949]	7272	[7968, 2200]
1129	[2124, 2133]	3177	[5056, 3937]	5225	[6950, 5176]	7273	[634, 7924]
1130	[2134, 2135]	3178	[5057, 5058]	5226	[4359, 3950]	7274	[5794, 7969]
1131	[2136, 2137]	3179	[5059, 4613]	5227	[6951, 6952]	7275	[7970, 5682]
1132	[2138, 2139]	3180	[3833, 5060]	5228	[6953, 483]	7276	[2947, 3129]
1133	[2140, 2141]	3181	[5061, 5062]	5229	[6954, 6955]	7277	[6170, 7971]
1134	[2142, 2143]	3182	[5063, 5064]	5230	[6956, 4838]	7278	[6172, 3319]
1135	[2144, 2145]	3183	[5065, 5066]	5231	[4518, 3647]	7279	[5741, 3182]
1136	[2146, 2147]	3184	[4414, 5067]	5232	[6957, 4793]	7280	[6044, 2853]
1137	[2148, 2149]	3185	[3932, 5068]	5233	[6958, 6959]	7281	[5263, 6001]
1138	[2150, 2151]	3186	[5069, 5070]	5234	[6960, 4433]	7282	[7972, 2334]
1139	[2152, 2153]	3187	[5071, 5072]	5235	[1840, 3531]	7283	[7973, 7974]
1140	[2154, 2155]	3188	[5073, 4763]	5236	[465, 6961]	7284	[7967, 2131]
1141	[2156, 2157]	3189	[5074, 1217]	5237	[1641, 1080]	7285	[6526, 2750]
1142	[2158, 2159]	3190	[5075, 1219]	5238	[5043, 6962]	7286	[7975, 5581]
1143	[2160, 2161]	3191	[5076, 5077]	5239	[4661, 6963]	7287	[6480, 5218]
1144	[2162, 970]	3192	[1693, 5078]	5240	[6964, 6965]	7288	[5562, 5764]
1145	[2163, 45]	3193	[1370, 5079]	5241	[6966, 6967]	7289	[7976, 7977]
1146	[2164, 2165]	3194	[4927, 5080]	5242	[4980, 6968]	7290	[6844, 7978]
1147	[2166, 2167]	3195	[5081, 1146]	5243	[100, 3972]	7291	[7950, 5427]
1148	[984, 2168]	3196	[3831, 4592]	5244	[4541, 452]	7292	[2854, 6075]
1149	[1960, 2169]	3197	[1617, 5082]	5245	[3566, 5142]	7293	[6482, 7979]
1150	[2170, 2171]	3198	[5083, 4616]	5246	[6969, 1321]	7294	[913, 7980]

1151	[2172, 2173]	3199	[4947, 5084]	5247	[3780, 3338]	7295	[7856, 131]
1152	[859, 2174]	3200	[5085, 5086]	5248	[3837, 6970]	7296	[7981, 5989]
1153	[2175, 2176]	3201	[5087, 5088]	5249	[6971, 6972]	7297	[42, 7982]
1154	[2177, 2178]	3202	[5089, 5090]	5250	[4403, 6973]	7298	[7983, 7984]
1155	[2179, 2180]	3203	[4031, 5091]	5251	[4181, 6974]	7299	[3308, 7975]
1156	[2181, 2182]	3204	[4272, 5092]	5252	[6975, 3873]	7300	[5942, 6462]
1157	[2183, 2184]	3205	[1579, 5093]	5253	[996, 297]	7301	[5587, 5340]
1158	[2185, 2186]	3206	[5094, 5095]	5254	[6976, 6977]	7302	[955, 5780]
1159	[2187, 2188]	3207	[494, 4743]	5255	[6978, 5147]	7303	[6794, 7985]
1160	[2069, 2189]	3208	[5096, 5097]	5256	[4448, 6979]	7304	[162, 5423]
1161	[2190, 2191]	3209	[3564, 5098]	5257	[6980, 5017]	7305	[2470, 2669]
1162	[2192, 2193]	3210	[5099, 3912]	5258	[6981, 6982]	7306	[2434, 7986]
1163	[2194, 2195]	3211	[4857, 5100]	5259	[3870, 6983]	7307	[2676, 6690]
1164	[2196, 2197]	3212	[4075, 5101]	5260	[1053, 1675]	7308	[6916, 6678]
1165	[2198, 2199]	3213	[1445, 5102]	5261	[1451, 6984]	7309	[5596, 2424]
1166	[2200, 2201]	3214	[5103, 5104]	5262	[3350, 6985]	7310	[2513, 7981]
1167	[2202, 2203]	3215	[5105, 1325]	5263	[3352, 4313]	7311	[722, 7987]
1168	[2204, 2205]	3216	[5106, 5107]	5264	[6986, 4321]	7312	[7988, 6193]
1169	[2206, 2207]	3217	[1358, 29]	5265	[4019, 6987]	7313	[6454, 5351]
1170	[2208, 2209]	3218	[1421, 4154]	5266	[6988, 5201]	7314	[6112, 2763]
1171	[2210, 2211]	3219	[1697, 5108]	5267	[1340, 6989]	7315	[5327, 6375]
1172	[2212, 2213]	3220	[5109, 5110]	5268	[6977, 6990]	7316	[14, 6081]
1173	[2214, 2215]	3221	[5111, 5112]	5269	[6991, 1748]	7317	[6279, 2127]
1174	[2216, 2217]	3222	[1258, 5113]	5270	[6992, 6993]	7318	[6857, 6742]
1175	[2218, 2219]	3223	[5114, 5115]	5271	[1368, 487]	7319	[6137, 2773]
1176	[2220, 2221]	3224	[5116, 3773]	5272	[6994, 6995]	7320	[6558, 6606]
1177	[2222, 2223]	3225	[5117, 4519]	5273	[6982, 6996]	7321	[6091, 5823]
1178	[2224, 2225]	3226	[4576, 4439]	5274	[1265, 6997]	7322	[7989, 2594]
1179	[2226, 2227]	3227	[5118, 5119]	5275	[1392, 6998]	7323	[6463, 6246]
1180	[2228, 2229]	3228	[4328, 5120]	5276	[6999, 4032]	7324	[6851, 2233]
1181	[2230, 2231]	3229	[4558, 5121]	5277	[7000, 7001]	7325	[7990, 6630]
1182	[2232, 575]	3230	[469, 5122]	5278	[3570, 7002]	7326	[6406, 6614]
1183	[2233, 2234]	3231	[5123, 3630]	5279	[7003, 1070]	7327	[5692, 6533]
1184	[2235, 2236]	3232	[3411, 5124]	5280	[7004, 4557]	7328	[6889, 7991]
1185	[2237, 2238]	3233	[3629, 418]	5281	[7005, 7006]	7329	[3208, 6768]
1186	[2239, 2240]	3234	[1529, 4515]	5282	[7007, 7008]	7330	[7889, 6818]
1187	[758, 2241]	3235	[3927, 5125]	5283	[7009, 7010]	7331	[7954, 7992]
1188	[2242, 2243]	3236	[308, 4411]	5284	[7011, 7012]	7332	[6866, 1995]
1189	[2244, 2245]	3237	[4975, 5126]	5285	[3824, 4559]	7333	[7869, 6884]
1190	[2246, 2247]	3238	[5127, 5128]	5286	[1443, 7013]	7334	[5905, 7993]
1191	[907, 2248]	3239	[5129, 5130]	5287	[7014, 7015]	7335	[6610, 7994]
1192	[2249, 2250]	3240	[5131, 5132]	5288	[4182, 3952]	7336	[6821, 898]
1193	[2251, 2252]	3241	[5133, 5134]	5289	[3879, 7016]	7337	[6339, 6435]
1194	[2253, 2254]	3242	[1286, 5135]	5290	[3479, 4954]	7338	[3125, 7995]

1195	[2255, 2256]	3243	[5108, 5136]	5291	[1399, 4048]	7339	[6317, 879]
1196	[2257, 2258]	3244	[5137, 4856]	5292	[1539, 7017]	7340	[6551, 6886]
1197	[2259, 2260]	3245	[5138, 5139]	5293	[7018, 271]	7341	[2759, 6507]
1198	[2261, 2262]	3246	[5140, 5141]	5294	[7019, 7020]	7342	[7996, 2350]
1199	[2263, 952]	3247	[5142, 1025]	5295	[4010, 505]	7343	[7882, 7997]
1200	[2264, 2265]	3248	[5120, 405]	5296	[7021, 4171]	7344	[3128, 7983]
1201	[2266, 2267]	3249	[5143, 3637]	5297	[7022, 4253]	7345	[134, 5968]
1202	[2268, 2269]	3250	[3359, 5144]	5298	[7023, 7024]	7346	[6915, 6060]
1203	[2270, 2271]	3251	[284, 5145]	5299	[5097, 1797]	7347	[7998, 7999]
1204	[2272, 2273]	3252	[4525, 4984]	5300	[7025, 7026]	7348	[6865, 2498]
1205	[2274, 2275]	3253	[1581, 4654]	5301	[1714, 4228]	7349	[5848, 55]
1206	[2276, 2277]	3254	[1120, 5146]	5302	[1098, 1293]	7350	[6419, 2966]
1207	[2278, 2279]	3255	[5147, 5148]	5303	[4987, 4467]	7351	[6310, 5617]
1208	[2280, 2281]	3256	[5149, 5087]	5304	[7027, 5020]	7352	[2176, 605]
1209	[2282, 2283]	3257	[5150, 5151]	5305	[3496, 3364]	7353	[8000, 2765]
1210	[2284, 2285]	3258	[5152, 4607]	5306	[6995, 1400]	7354	[6097, 6591]
1211	[957, 2286]	3259	[5153, 1068]	5307	[7028, 3353]	7355	[6938, 8001]
1212	[2287, 2288]	3260	[5154, 5155]	5308	[7029, 7030]	7356	[5335, 135]
1213	[770, 2289]	3261	[4361, 1597]	5309	[7031, 7032]	7357	[2679, 6117]
1214	[2290, 2291]	3262	[4380, 4094]	5310	[1376, 1359]	7358	[8002, 3147]
1215	[2292, 2293]	3263	[5156, 3369]	5311	[7033, 7034]	7359	[6928, 6919]
1216	[2294, 2295]	3264	[5157, 1032]	5312	[7035, 347]	7360	[6397, 5700]
1217	[2296, 2297]	3265	[5158, 3463]	5313	[7036, 7037]	7361	[1900, 6845]
1218	[2298, 846]	3266	[4041, 4390]	5314	[7038, 7039]	7362	[6236, 5857]
1219	[2299, 2300]	3267	[4724, 295]	5315	[7040, 7022]	7363	[2112, 2803]
1220	[2301, 2302]	3268	[4184, 4720]	5316	[4766, 4700]	7364	[2145, 6386]
1221	[1941, 2303]	3269	[3551, 1301]	5317	[3623, 7041]	7365	[2881, 8003]
1222	[2304, 2305]	3270	[4938, 5159]	5318	[5007, 3785]	7366	[5325, 5703]
1223	[2306, 916]	3271	[5160, 5161]	5319	[7042, 1361]	7367	[3268, 2023]
1224	[2307, 2308]	3272	[4638, 5162]	5320	[7043, 7044]	7368	[5470, 3008]
1225	[2309, 2310]	3273	[4112, 5163]	5321	[4397, 3718]	7369	[5253, 2226]
1226	[2311, 2312]	3274	[4611, 5164]	5322	[7045, 6966]	7370	[2583, 727]
1227	[2313, 2314]	3275	[435, 4]	5323	[1159, 7046]	7371	[6593, 5358]
1228	[166, 2315]	3276	[5165, 3766]	5324	[3509, 3971]	7372	[8004, 2561]
1229	[2316, 2317]	3277	[5166, 5167]	5325	[1670, 3918]	7373	[3242, 3096]
1230	[742, 2318]	3278	[4442, 5168]	5326	[7047, 7048]	7374	[8005, 7937]
1231	[2319, 253]	3279	[4282, 5169]	5327	[4314, 3540]	7375	[6504, 8006]
1232	[2320, 2321]	3280	[3742, 3843]	5328	[7049, 7050]	7376	[2713, 6320]
1233	[2322, 2323]	3281	[328, 5170]	5329	[7051, 5050]	7377	[2714, 2810]
1234	[809, 2324]	3282	[5171, 5172]	5330	[7052, 7053]	7378	[2606, 8007]
1235	[2325, 2326]	3283	[4262, 1876]	5331	[3951, 4190]	7379	[2049, 6216]
1236	[2327, 2328]	3284	[5173, 71]	5332	[3385, 7054]	7380	[5902, 2908]
1237	[2329, 2330]	3285	[5093, 4668]	5333	[4239, 4052]	7381	[176, 6790]
1238	[2118, 2331]	3286	[5174, 5175]	5334	[7055, 7056]	7382	[6352, 3143]

1239	[2332, 2333]	3287	[5176, 4128]	5335	[7057, 7033]	7383	[5806, 3047]
1240	[2334, 2335]	3288	[3772, 1677]	5336	[1705, 7058]	7384	[6829, 6340]
1241	[2336, 2152]	3289	[5177, 5031]	5337	[7059, 7060]	7385	[6893, 6854]
1242	[2337, 2338]	3290	[4659, 5038]	5338	[7061, 7062]	7386	[7992, 2865]
1243	[2339, 2340]	3291	[5178, 5179]	5339	[5186, 4619]	7387	[6513, 2413]
1244	[2341, 2342]	3292	[5180, 5181]	5340	[7063, 5099]	7388	[586, 6178]
1245	[2343, 2344]	3293	[4684, 3425]	5341	[288, 5143]	7389	[5620, 6838]
1246	[681, 2345]	3294	[3537, 5182]	5342	[7064, 7065]	7390	[8008, 6322]
1247	[2346, 2347]	3295	[5183, 3345]	5343	[7066, 7067]	7391	[7969, 7852]
1248	[2348, 2349]	3296	[5184, 1257]	5344	[7068, 7069]	7392	[836, 3303]
1249	[2350, 2351]	3297	[5185, 5186]	5345	[7070, 7071]	7393	[5959, 6492]
1250	[2352, 2353]	3298	[5187, 1209]	5346	[5212, 1236]	7394	[6709, 5627]
1251	[2354, 2355]	3299	[4319, 4945]	5347	[1551, 7072]	7395	[3007, 6843]
1252	[2356, 2357]	3300	[5188, 5189]	5348	[1736, 3974]	7396	[5241, 7909]
1253	[2358, 2359]	3301	[5190, 491]	5349	[1200, 3953]	7397	[6651, 6937]
1254	[532, 2329]	3302	[5191, 4626]	5350	[1206, 7073]	7398	[7946, 5832]
1255	[2360, 2361]	3303	[4275, 3810]	5351	[4196, 7074]	7399	[6219, 5574]
1256	[2362, 943]	3304	[5192, 5193]	5352	[384, 3596]	7400	[6760, 2838]
1257	[2363, 2364]	3305	[5015, 1814]	5353	[7075, 1414]	7401	[6941, 3149]
1258	[2365, 2270]	3306	[3420, 4591]	5354	[7076, 3739]	7402	[6774, 8009]
1259	[2366, 2367]	3307	[5194, 4765]	5355	[7077, 1240]	7403	[8010, 2743]
1260	[2368, 2369]	3308	[5195, 5196]	5356	[7078, 4234]	7404	[2223, 6688]
1261	[2370, 2371]	3309	[5010, 1462]	5357	[4086, 7079]	7405	[6251, 6645]
1262	[2372, 2373]	3310	[5197, 989]	5358	[4919, 4422]	7406	[6691, 6912]
1263	[2374, 775]	3311	[5198, 5199]	5359	[7080, 6957]	7407	[142, 2897]
1264	[2375, 2376]	3312	[5200, 1027]	5360	[4957, 4090]	7408	[6740, 5775]
1265	[2377, 2378]	3313	[5201, 1115]	5361	[7081, 4092]	7409	[2613, 6922]
1266	[2379, 2380]	3314	[5202, 4918]	5362	[4600, 7082]	7410	[2556, 6804]
1267	[2381, 2382]	3315	[5203, 5204]	5363	[7083, 1052]	7411	[6262, 5646]
1268	[901, 2383]	3316	[1252, 5205]	5364	[3376, 7084]	7412	[3166, 3241]
1269	[2384, 2385]	3317	[3884, 1291]	5365	[7085, 5150]	7413	[2651, 6747]
1270	[2386, 2387]	3318	[5068, 3892]	5366	[7086, 7036]	7414	[6898, 2035]
1271	[2388, 2389]	3319	[5206, 5207]	5367	[5072, 4283]	7415	[1924, 6312]
1272	[2390, 2391]	3320	[5208, 1177]	5368	[1411, 7087]	7416	[8011, 3330]
1273	[2392, 2393]	3321	[3793, 3490]	5369	[7088, 3628]	7417	[8001, 3204]
1274	[2394, 2395]	3322	[3568, 4364]	5370	[4193, 1195]	7418	[6191, 2648]
1275	[2396, 2397]	3323	[5209, 4864]	5371	[3601, 4456]	7419	[5706, 6724]
1276	[2398, 2399]	3324	[1000, 4865]	5372	[7071, 7089]	7420	[2197, 2001]
1277	[542, 2400]	3325	[5210, 117]	5373	[4813, 7090]	7421	[5314, 6816]
1278	[2130, 173]	3326	[5211, 4845]	5374	[1785, 7091]	7422	[2453, 8012]
1279	[2401, 2402]	3327	[467, 5212]	5375	[7092, 4521]	7423	[6676, 620]
1280	[2403, 2404]	3328	[5213, 5214]	5376	[4022, 7093]	7424	[8013, 6357]
1281	[2326, 2405]	3329	[4056, 4885]	5377	[370, 4265]	7425	[6913, 5978]
1282	[1990, 2004]	3330	[5215, 5216]	5378	[5008, 4068]	7426	[2245, 7952]

1283	[2406, 1911]	3331	[5217, 5218]	5379	[7094, 7095]	7427	[7884, 2762]
1284	[2407, 2408]	3332	[5219, 2502]	5380	[4049, 5048]	7428	[6756, 5779]
1285	[2409, 2410]	3333	[2380, 5220]	5381	[7096, 7097]	7429	[5516, 956]
1286	[2411, 2412]	3334	[5221, 3034]	5382	[4698, 6951]	7430	[5955, 8011]
1287	[2413, 235]	3335	[5222, 844]	5383	[7098, 4932]	7431	[5294, 6766]
1288	[2414, 2415]	3336	[160, 5223]	5384	[1436, 1363]	7432	[6840, 3237]
1289	[2416, 2417]	3337	[2147, 5224]	5385	[4675, 7099]	7433	[2091, 684]
1290	[2418, 2419]	3338	[250, 5225]	5386	[4245, 321]	7434	[2718, 2780]
1291	[2420, 2421]	3339	[5226, 3261]	5387	[1665, 1244]	7435	[2671, 213]
1292	[2422, 2423]	3340	[845, 5227]	5388	[4335, 1335]	7436	[2328, 7932]
1293	[1962, 2401]	3341	[2493, 2703]	5389	[260, 4573]	7437	[6908, 5455]
1294	[2424, 2425]	3342	[5228, 241]	5390	[7100, 7101]	7438	[5860, 6115]
1295	[2426, 2427]	3343	[5229, 5230]	5391	[7089, 5200]	7439	[8014, 8015]
1296	[2428, 2429]	3344	[3115, 5231]	5392	[7102, 7103]	7440	[6802, 8016]
1297	[2430, 2068]	3345	[5232, 5233]	5393	[1741, 7104]	7441	[186, 771]
1298	[2431, 2432]	3346	[5234, 2610]	5394	[7105, 4878]	7442	[3099, 7906]
1299	[2433, 2434]	3347	[3093, 5235]	5395	[7106, 7107]	7443	[803, 8017]
1300	[2435, 2436]	3348	[5236, 2925]	5396	[300, 7108]	7444	[6374, 6717]
1301	[2404, 2437]	3349	[2065, 5237]	5397	[4688, 7109]	7445	[7985, 5285]
1302	[2438, 2439]	3350	[3061, 2877]	5398	[3606, 3823]	7446	[6836, 217]
1303	[2440, 2441]	3351	[5238, 5239]	5399	[4425, 7110]	7447	[6895, 5553]
1304	[2442, 2443]	3352	[5240, 5241]	5400	[7111, 7112]	7448	[6720, 6566]
1305	[2444, 624]	3353	[5242, 5243]	5401	[7113, 7114]	7449	[3206, 2172]
1306	[2445, 2446]	3354	[5244, 225]	5402	[1687, 6981]	7450	[7862, 5332]
1307	[2447, 2448]	3355	[5245, 2946]	5403	[7103, 7115]	7451	[5419, 6398]
1308	[2051, 2449]	3356	[5246, 5247]	5404	[7116, 7117]	7452	[3289, 6034]
1309	[788, 985]	3357	[5248, 5249]	5405	[1224, 3356]	7453	[8018, 8002]
1310	[2450, 2451]	3358	[5250, 5251]	5406	[7118, 7119]	7454	[8019, 5944]
1311	[2452, 2453]	3359	[5252, 5253]	5407	[4776, 275]	7455	[7914, 6498]
1312	[2454, 2455]	3360	[5254, 5255]	5408	[4622, 4393]	7456	[252, 619]
1313	[2293, 2194]	3361	[5256, 525]	5409	[7120, 7121]	7457	[3192, 6500]
1314	[2456, 2457]	3362	[40, 549]	5410	[7122, 4030]	7458	[8020, 3155]
1315	[2458, 2459]	3363	[5257, 201]	5411	[5012, 7123]	7459	[3234, 6456]
1316	[2460, 2461]	3364	[730, 5258]	5412	[7124, 7125]	7460	[2463, 5717]
1317	[2462, 2463]	3365	[3328, 5259]	5413	[3450, 1601]	7461	[8021, 5718]
1318	[2464, 2465]	3366	[5260, 875]	5414	[4556, 3602]	7462	[6875, 8008]
1319	[2466, 2467]	3367	[5261, 609]	5415	[7126, 4370]	7463	[5592, 6362]
1320	[2468, 533]	3368	[5262, 5263]	5416	[3898, 4567]	7464	[3220, 3243]
1321	[2469, 2470]	3369	[2647, 5264]	5417	[7127, 7128]	7465	[8022, 3028]
1322	[2471, 51]	3370	[5265, 5266]	5418	[3723, 343]	7466	[2333, 2096]
1323	[2472, 2473]	3371	[610, 5267]	5419	[5090, 1133]	7467	[2674, 6214]
1324	[2474, 2475]	3372	[5268, 5269]	5420	[4256, 1704]	7468	[8023, 6758]
1325	[2476, 2477]	3373	[5270, 2471]	5421	[7129, 7130]	7469	[6564, 6942]
1326	[2478, 2479]	3374	[5271, 5272]	5422	[7131, 4706]	7470	[7928, 6943]

1327	[2480, 2481]	3375	[5273, 5274]	5423	[7132, 3751]	7471	[5291, 2294]
1328	[2482, 2483]	3376	[5275, 980]	5424	[1390, 4198]	7472	[5920, 6360]
1329	[2484, 2485]	3377	[958, 5276]	5425	[7133, 1201]	7473	[5885, 6012]
1330	[2486, 2249]	3378	[5277, 5278]	5426	[7134, 6975]	7474	[861, 854]
1331	[2487, 2488]	3379	[5279, 5280]	5427	[7135, 3617]	7475	[8024, 6050]
1332	[573, 2489]	3380	[2630, 2777]	5428	[1730, 7136]	7476	[5958, 6269]
1333	[2011, 185]	3381	[5281, 5282]	5429	[7137, 267]	7477	[6542, 645]
1334	[2490, 2491]	3382	[5283, 5284]	5430	[7138, 5133]	7478	[2547, 7953]
1335	[2492, 2493]	3383	[5285, 3276]	5431	[4478, 7139]	7479	[7875, 7931]
1336	[2494, 2495]	3384	[967, 5286]	5432	[1563, 7131]	7480	[3056, 8025]
1337	[2496, 2497]	3385	[2839, 5287]	5433	[3604, 4708]	7481	[5815, 2460]
1338	[2498, 2499]	3386	[5288, 3307]	5434	[3593, 7140]	7482	[6194, 6654]
1339	[2500, 2501]	3387	[2231, 5289]	5435	[320, 7141]	7483	[2412, 7925]
1340	[2502, 719]	3388	[5290, 5291]	5436	[7142, 5114]	7484	[5673, 8013]
1341	[2503, 2504]	3389	[5292, 5293]	5437	[7143, 4829]	7485	[6124, 6905]
1342	[2505, 2179]	3390	[2682, 5294]	5438	[4174, 7144]	7486	[6283, 6934]
1343	[2506, 2507]	3391	[5295, 5296]	5439	[7145, 4149]	7487	[6383, 6104]
1344	[2508, 2125]	3392	[5297, 2858]	5440	[7146, 4028]	7488	[6459, 2926]
1345	[2509, 2142]	3393	[5298, 5299]	5441	[7147, 7148]	7489	[5710, 5938]
1346	[2510, 2511]	3394	[5300, 5301]	5442	[4434, 5023]	7490	[8026, 6447]
1347	[2512, 2513]	3395	[5302, 5303]	5443	[7149, 5001]	7491	[2097, 8027]
1348	[2514, 2515]	3396	[1932, 2259]	5444	[3584, 3761]	7492	[640, 8022]
1349	[2013, 2516]	3397	[5304, 2426]	5445	[4388, 7150]	7493	[8009, 866]
1350	[2517, 2518]	3398	[5305, 5306]	5446	[7151, 7152]	7494	[8028, 6287]
1351	[2519, 2520]	3399	[5307, 5308]	5447	[7153, 4528]	7495	[3273, 8029]
1352	[2521, 2522]	3400	[5309, 3247]	5448	[7154, 1524]	7496	[7991, 6014]
1353	[2523, 2524]	3401	[5310, 5311]	5449	[3769, 7155]	7497	[6470, 8024]
1354	[2525, 2526]	3402	[5312, 562]	5450	[7072, 7156]	7498	[2958, 7973]
1355	[2527, 2528]	3403	[5313, 5314]	5451	[4748, 1570]	7499	[3329, 6814]
1356	[2529, 2530]	3404	[5315, 5316]	5452	[7157, 7158]	7500	[5558, 8030]
1357	[2531, 59]	3405	[5317, 2771]	5453	[7159, 4058]	7501	[5523, 6711]
1358	[2532, 572]	3406	[54, 5318]	5454	[7160, 4387]	7502	[6355, 7972]
1359	[2533, 2534]	3407	[5319, 5320]	5455	[7161, 7162]	7503	[2552, 8031]
1360	[2535, 2536]	3408	[2564, 5321]	5456	[4543, 5016]	7504	[6135, 6305]
1361	[242, 2537]	3409	[5322, 5323]	5457	[4694, 7163]	7505	[911, 661]
1362	[2538, 2539]	3410	[2859, 2709]	5458	[1709, 7164]	7506	[5931, 5302]
1363	[2540, 2541]	3411	[5324, 5325]	5459	[1463, 7165]	7507	[709, 6652]
1364	[2542, 2543]	3412	[5326, 5327]	5460	[1594, 4349]	7508	[6858, 2778]
1365	[2544, 2545]	3413	[5328, 5329]	5461	[7166, 4351]	7509	[8032, 6410]
1366	[2546, 2547]	3414	[5330, 5331]	5462	[1699, 1389]	7510	[6274, 6136]
1367	[2548, 2418]	3415	[5332, 3092]	5463	[7167, 7168]	7511	[6741, 8033]
1368	[2549, 2550]	3416	[817, 700]	5464	[4119, 7169]	7512	[6063, 858]
1369	[2551, 2552]	3417	[5333, 5334]	5465	[1434, 7170]	7513	[5922, 231]
1370	[2553, 2554]	3418	[5293, 5335]	5466	[4632, 4579]	7514	[6817, 2836]

1371	[2555, 2556]	3419	[5336, 5337]	5467	[7171, 1076]	7515	[6475, 6841]
1372	[2557, 2558]	3420	[5338, 5339]	5468	[7172, 3859]	7516	[2829, 6820]
1373	[2559, 1987]	3421	[5340, 5341]	5469	[6970, 1311]	7517	[6111, 6874]
1374	[2560, 2354]	3422	[5342, 721]	5470	[6972, 7173]	7518	[2661, 5668]
1375	[2561, 2562]	3423	[3101, 5343]	5471	[7174, 7175]	7519	[2417, 6813]
1376	[2563, 2564]	3424	[2349, 2386]	5472	[4660, 7176]	7520	[6087, 6460]
1377	[2565, 2566]	3425	[1943, 5344]	5473	[1611, 7177]	7521	[5820, 6780]
1378	[2567, 2568]	3426	[5345, 3299]	5474	[7178, 7179]	7522	[5220, 6043]
1379	[210, 2569]	3427	[5346, 5347]	5475	[3415, 7180]	7523	[2086, 6396]
1380	[2570, 2571]	3428	[5348, 5349]	5476	[7181, 4767]	7524	[6472, 8034]
1381	[2572, 2573]	3429	[5350, 2731]	5477	[4944, 3802]	7525	[5590, 6847]
1382	[2574, 2575]	3430	[5351, 2019]	5478	[4886, 3696]	7526	[7951, 6208]
1383	[2576, 2577]	3431	[5352, 5353]	5479	[3618, 5081]	7527	[6008, 2040]
1384	[815, 2578]	3432	[5354, 2953]	5480	[7182, 7183]	7528	[534, 6787]
1385	[2579, 171]	3433	[5355, 5356]	5481	[4811, 7184]	7529	[2074, 872]
1386	[2580, 2581]	3434	[2653, 945]	5482	[5058, 475]	7530	[5626, 8035]
1387	[2582, 2583]	3435	[5357, 2934]	5483	[7073, 1805]	7531	[7926, 3012]
1388	[2584, 2585]	3436	[5358, 5359]	5484	[7162, 7185]	7532	[7982, 759]
1389	[2586, 2587]	3437	[5360, 5361]	5485	[7186, 3429]	7533	[6220, 8018]
1390	[2588, 2589]	3438	[5362, 5363]	5486	[4459, 4503]	7534	[7854, 2316]
1391	[2590, 2591]	3439	[1904, 5364]	5487	[1063, 7014]	7535	[2295, 8036]
1392	[2592, 2593]	3440	[5365, 5366]	5488	[7034, 5116]	7536	[6662, 8037]
1393	[2594, 1973]	3441	[3188, 5367]	5489	[7187, 7188]	7537	[5770, 2100]
1394	[2595, 2596]	3442	[2236, 2014]	5490	[7189, 1106]	7538	[7933, 6798]
1395	[2342, 2597]	3443	[732, 5368]	5491	[7190, 1017]	7539	[7994, 6788]
1396	[2598, 2599]	3444	[5369, 2748]	5492	[7191, 3417]	7540	[5941, 6098]
1397	[2600, 2601]	3445	[2448, 5370]	5493	[3484, 7192]	7541	[8038, 5307]
1398	[2602, 558]	3446	[2449, 5371]	5494	[7193, 7194]	7542	[2178, 1953]
1399	[2135, 2603]	3447	[5372, 5373]	5495	[7195, 313]	7543	[7984, 7945]
1400	[2604, 860]	3448	[5374, 5375]	5496	[7196, 1452]	7544	[675, 6754]
1401	[2605, 2606]	3449	[2812, 5376]	5497	[4749, 7197]	7545	[697, 6517]
1402	[2607, 191]	3450	[5377, 2924]	5498	[1218, 4034]	7546	[2141, 8039]
1403	[2285, 2608]	3451	[5378, 5379]	5499	[7198, 7199]	7547	[5671, 6939]
1404	[2258, 2609]	3452	[5380, 5381]	5500	[1679, 3582]	7548	[7979, 1913]
1405	[2610, 2611]	3453	[2483, 5382]	5501	[7200, 3550]	7549	[6212, 6864]
1406	[2612, 2613]	3454	[5383, 3064]	5502	[7201, 7202]	7550	[6796, 8040]
1407	[2614, 2121]	3455	[5384, 5385]	5503	[4147, 7203]	7551	[5608, 2430]
1408	[2318, 2615]	3456	[3193, 5386]	5504	[4132, 4341]	7552	[2171, 7860]
1409	[2616, 2377]	3457	[2668, 3140]	5505	[7204, 7205]	7553	[5412, 2656]
1410	[2617, 2618]	3458	[5387, 5388]	5506	[1453, 1784]	7554	[6617, 6568]
1411	[2619, 2620]	3459	[1920, 5389]	5507	[5151, 4322]	7555	[8017, 2490]
1412	[2621, 2622]	3460	[5390, 3279]	5508	[5104, 3896]	7556	[6721, 2921]
1413	[2378, 2623]	3461	[5391, 5392]	5509	[4054, 1056]	7557	[6378, 7962]
1414	[2624, 763]	3462	[236, 5393]	5510	[1485, 1058]	7558	[5388, 5711]

1415	[2625, 808]	3463	[5394, 5395]	5511	[7206, 7207]	7559	[6017, 690]
1416	[2626, 2627]	3464	[5396, 5397]	5512	[7208, 4917]	7560	[6093, 6872]
1417	[2628, 2629]	3465	[3083, 5398]	5513	[4340, 7209]	7561	[6496, 6770]
1418	[2312, 2630]	3466	[2256, 5399]	5514	[3346, 7210]	7562	[2106, 6623]
1419	[188, 2631]	3467	[5400, 5401]	5515	[108, 7211]	7563	[5877, 6850]
1420	[2632, 2633]	3468	[5402, 5403]	5516	[7212, 1827]	7564	[1938, 6634]
1421	[2634, 2635]	3469	[2149, 5404]	5517	[7213, 4900]	7565	[3183, 8041]
1422	[2636, 2637]	3470	[636, 5405]	5518	[1869, 4271]	7566	[5527, 6027]
1423	[2638, 2639]	3471	[5406, 5407]	5519	[5078, 3689]	7567	[6065, 6356]
1424	[2640, 2641]	3472	[5408, 2805]	5520	[7214, 7215]	7568	[3139, 6576]
1425	[2642, 2643]	3473	[5409, 5410]	5521	[1461, 287]	7569	[6797, 6903]
1426	[2644, 2645]	3474	[5411, 539]	5522	[7216, 4898]	7570	[8042, 6252]
1427	[2646, 2647]	3475	[5405, 5412]	5523	[3999, 7217]	7571	[2022, 6417]
1428	[2648, 2649]	3476	[3095, 187]	5524	[4125, 4802]	7572	[6776, 2813]
1429	[2650, 2651]	3477	[5413, 833]	5525	[378, 7092]	7573	[6307, 7990]
1430	[2652, 2653]	3478	[5414, 5415]	5526	[7218, 4200]	7574	[2772, 8043]
1431	[2654, 2655]	3479	[5416, 5417]	5527	[7219, 7220]	7575	[8029, 8044]
1432	[2656, 2657]	3480	[5418, 2579]	5528	[7221, 7222]	7576	[8045, 6047]
1433	[2658, 2659]	3481	[3041, 5419]	5529	[4284, 5085]	7577	[226, 5597]
1434	[2660, 2661]	3482	[2211, 1967]	5530	[1273, 3609]	7578	[6522, 6876]
1435	[2662, 2540]	3483	[5420, 5421]	5531	[7223, 7224]	7579	[5737, 6326]
1436	[2663, 2664]	3484	[2866, 5422]	5532	[1497, 7061]	7580	[2516, 2892]
1437	[2665, 2666]	3485	[522, 3290]	5533	[7225, 7142]	7581	[2047, 2506]
1438	[2667, 2668]	3486	[5423, 5342]	5534	[7226, 4208]	7582	[8036, 2508]
1439	[2669, 163]	3487	[5424, 5374]	5535	[4136, 7227]	7583	[7894, 2619]
1440	[2670, 2671]	3488	[5425, 5426]	5536	[3394, 7228]	7584	[5935, 708]
1441	[2126, 2672]	3489	[5427, 5428]	5537	[4176, 4014]	7585	[847, 3232]
1442	[2673, 2674]	3490	[192, 5429]	5538	[4620, 3878]	7586	[8030, 8046]
1443	[2675, 2676]	3491	[5430, 5431]	5539	[1527, 3504]	7587	[7902, 5970]
1444	[2677, 2414]	3492	[1892, 2066]	5540	[7229, 7145]	7588	[6594, 2940]
1445	[2678, 2679]	3493	[5432, 2098]	5541	[4060, 7230]	7589	[6428, 8047]
1446	[2227, 2680]	3494	[3264, 5433]	5542	[4924, 7231]	7590	[7868, 5232]
1447	[2681, 2682]	3495	[2355, 5434]	5543	[7232, 4455]	7591	[8039, 5834]
1448	[2683, 2512]	3496	[5435, 5436]	5544	[1501, 7233]	7592	[7923, 6892]
1449	[592, 2684]	3497	[36, 3219]	5545	[7234, 7235]	7593	[5696, 7988]
1450	[2685, 2686]	3498	[5437, 5438]	5546	[7236, 7237]	7594	[6260, 3281]
1451	[2687, 2688]	3499	[2, 712]	5547	[5054, 7238]	7595	[6179, 8032]
1452	[2689, 2690]	3500	[5439, 2677]	5548	[7239, 1164]	7596	[5656, 688]
1453	[2691, 2692]	3501	[60, 2678]	5549	[1596, 1731]	7597	[6921, 2644]
1454	[2693, 2694]	3502	[5440, 5441]	5550	[7240, 7241]	7598	[3293, 6536]
1455	[2695, 2696]	3503	[5442, 5443]	5551	[1479, 7242]	7599	[6164, 6613]
1456	[2697, 2698]	3504	[2807, 5444]	5552	[1689, 7243]	7600	[3063, 7927]
1457	[2699, 2700]	3505	[5445, 5446]	5553	[7244, 3962]	7601	[2133, 653]
1458	[2701, 2702]	3506	[3073, 5447]	5554	[7245, 3453]	7602	[2128, 848]

1459	[2703, 2704]	3507	[5448, 5449]	5555	[280, 4685]	7603	[584, 6127]
1460	[2083, 789]	3508	[5450, 2407]	5556	[6962, 7246]	7604	[6579, 2695]
1461	[2705, 2706]	3509	[2898, 5451]	5557	[7247, 7248]	7605	[6715, 5744]
1462	[2707, 2708]	3510	[5452, 5453]	5558	[7249, 7250]	7606	[8007, 2042]
1463	[2709, 2710]	3511	[2862, 5454]	5559	[1071, 327]	7607	[2961, 2789]
1464	[172, 2711]	3512	[3138, 3010]	5560	[1062, 7251]	7608	[5831, 2842]
1465	[2712, 2713]	3513	[5455, 5456]	5561	[4894, 4490]	7609	[8048, 8049]
1466	[863, 2714]	3514	[5457, 5458]	5562	[7252, 7253]	7610	[2809, 6692]
1467	[2715, 2716]	3515	[5356, 5459]	5563	[5122, 470]	7611	[6520, 5354]
1468	[2717, 2718]	3516	[5460, 5461]	5564	[3767, 1285]	7612	[8040, 5909]
1469	[2719, 2720]	3517	[5462, 5463]	5565	[7099, 1504]	7613	[2173, 1946]
1470	[2721, 2027]	3518	[2347, 5464]	5566	[1839, 7254]	7614	[604, 6514]
1471	[2722, 2276]	3519	[5465, 5466]	5567	[7255, 1614]	7615	[7930, 6920]
1472	[2723, 2724]	3520	[5467, 5468]	5568	[1002, 4727]	7616	[5453, 6694]
1473	[2725, 2726]	3521	[1902, 237]	5569	[4594, 1173]	7617	[6149, 5994]
1474	[2727, 2728]	3522	[5469, 5470]	5570	[7256, 7257]	7618	[3009, 221]
1475	[2361, 2729]	3523	[2545, 5471]	5571	[1378, 1807]	7619	[7908, 6728]
1476	[2730, 975]	3524	[3169, 5472]	5572	[1873, 991]	7620	[6786, 825]
1477	[2731, 2732]	3525	[981, 5473]	5573	[7258, 7259]	7621	[7961, 5584]
1478	[2026, 2148]	3526	[5474, 2565]	5574	[994, 4904]	7622	[2764, 7939]
1479	[2733, 2734]	3527	[5475, 5476]	5575	[4853, 3656]	7623	[6704, 6495]
1480	[2706, 2735]	3528	[3039, 2932]	5576	[1198, 5185]	7624	[240, 6661]
1481	[2736, 819]	3529	[891, 3297]	5577	[7260, 7261]	7625	[2963, 3058]
1482	[2737, 2738]	3530	[2093, 5477]	5578	[7144, 4305]	7626	[8016, 6869]
1483	[2739, 2740]	3531	[5478, 5479]	5579	[7262, 4021]	7627	[7890, 8005]
1484	[840, 2741]	3532	[5480, 5481]	5580	[4883, 1365]	7628	[2371, 5630]
1485	[2742, 2009]	3533	[5482, 2356]	5581	[7263, 7264]	7629	[6345, 6670]
1486	[2743, 2744]	3534	[5483, 2080]	5582	[7265, 7266]	7630	[8043, 8042]
1487	[2745, 2746]	3535	[5456, 5484]	5583	[4020, 7225]	7631	[7922, 8050]
1488	[1982, 2747]	3536	[5485, 5486]	5584	[1174, 4536]	7632	[8051, 6619]
1489	[2748, 2749]	3537	[744, 5487]	5585	[3544, 6992]	7633	[2883, 7948]
1490	[2750, 2733]	3538	[986, 5488]	5586	[4876, 3777]	7634	[781, 6940]
1491	[2751, 2752]	3539	[5489, 5490]	5587	[4628, 7267]	7635	[2207, 6627]
1492	[2753, 2464]	3540	[5491, 521]	5588	[7264, 7268]	7636	[7958, 6881]
1493	[2754, 2755]	3541	[5492, 5493]	5589	[499, 4426]	7637	[8052, 7859]
1494	[2756, 2757]	3542	[5494, 5495]	5590	[4392, 4492]	7638	[8025, 7855]
1495	[2758, 2759]	3543	[2608, 5496]	5591	[1489, 7269]	7639	[882, 7857]
1496	[2760, 2761]	3544	[2900, 5497]	5592	[7176, 7270]	7640	[7986, 5622]
1497	[2762, 2542]	3545	[5498, 5499]	5593	[4849, 1450]	7641	[6879, 6682]
1498	[2763, 2764]	3546	[5500, 939]	5594	[7271, 4545]	7642	[7899, 5661]
1499	[2765, 1998]	3547	[5501, 674]	5595	[7272, 4165]	7643	[6846, 6547]
1500	[2766, 2767]	3548	[978, 2492]	5596	[7273, 4742]	7644	[1964, 6400]
1501	[2768, 2336]	3549	[2741, 941]	5597	[451, 4759]	7645	[6213, 6559]
1502	[2769, 2770]	3550	[5502, 5503]	5598	[7188, 1074]	7646	[1910, 7870]

1503	[2771, 2772]	3551	[2402, 5504]	5599	[7274, 7275]	7647	[2518, 6090]
1504	[2773, 2774]	3552	[5235, 2232]	5600	[5084, 7200]	7648	[3005, 1955]
1505	[2775, 2228]	3553	[5505, 5506]	5601	[1077, 4907]	7649	[8053, 8045]
1506	[928, 2776]	3554	[5507, 5508]	5602	[342, 4909]	7650	[2879, 7968]
1507	[2777, 2640]	3555	[5509, 5510]	5603	[3881, 4588]	7651	[6106, 6380]
1508	[2778, 2779]	3556	[5511, 169]	5604	[3864, 1638]	7652	[7865, 6092]
1509	[2780, 2781]	3557	[2283, 43]	5605	[7276, 4324]	7653	[6154, 5964]
1510	[2782, 2783]	3558	[5512, 5513]	5606	[7277, 7278]	7654	[6671, 6749]
1511	[2784, 2785]	3559	[5514, 1989]	5607	[1360, 4901]	7655	[2530, 2722]
1512	[2786, 2787]	3560	[5515, 5516]	5608	[4511, 4572]	7656	[6906, 8048]
1513	[671, 2788]	3561	[5517, 973]	5609	[7279, 4098]	7657	[220, 7936]
1514	[2789, 2790]	3562	[983, 5518]	5610	[7280, 4783]	7658	[6415, 2784]
1515	[132, 2791]	3563	[3280, 5519]	5611	[7215, 7281]	7659	[2405, 6041]
1516	[691, 2792]	3564	[5520, 5521]	5612	[282, 7255]	7660	[5967, 3189]
1517	[2793, 2794]	3565	[5522, 666]	5613	[7282, 7077]	7661	[7974, 8026]
1518	[2795, 2560]	3566	[2543, 5523]	5614	[4001, 7283]	7662	[6335, 5862]
1519	[2796, 2239]	3567	[2114, 5524]	5615	[7284, 1127]	7663	[5473, 175]
1520	[2797, 2798]	3568	[2790, 2667]	5616	[7285, 4114]	7664	[2834, 2044]
1521	[2799, 2800]	3569	[5525, 5526]	5617	[118, 395]	7665	[849, 6026]
1522	[766, 2801]	3570	[136, 5527]	5618	[4530, 109]	7666	[6167, 6582]
1523	[2562, 2802]	3571	[2931, 5528]	5619	[7286, 7287]	7667	[7980, 894]
1524	[2803, 2804]	3572	[5529, 3199]	5620	[3902, 7288]	7668	[5774, 6897]
1525	[2805, 2806]	3573	[5490, 2532]	5621	[1522, 4946]	7669	[3222, 6605]
1526	[2036, 2807]	3574	[5530, 3175]	5622	[7289, 7290]	7670	[6363, 6234]
1527	[2808, 2809]	3575	[5531, 5532]	5623	[7121, 7291]	7671	[8006, 2919]
1528	[2810, 11]	3576	[5533, 5485]	5624	[417, 3336]	7672	[528, 6293]
1529	[2755, 2811]	3577	[5534, 5535]	5625	[1557, 7292]	7673	[7853, 7877]
1530	[2324, 2812]	3578	[5536, 5537]	5626	[5067, 7293]	7674	[6782, 6808]
1531	[2813, 2814]	3579	[776, 5538]	5627	[7294, 7105]	7675	[2491, 6535]
1532	[2815, 2816]	3580	[5539, 3228]	5628	[3705, 1544]	7676	[5441, 7940]
1533	[752, 2817]	3581	[5540, 5541]	5629	[4726, 6969]	7677	[2945, 6388]
1534	[2818, 2819]	3582	[5542, 554]	5630	[7295, 7151]	7678	[7863, 852]
1535	[2820, 2821]	3583	[5543, 5544]	5631	[4229, 7196]	7679	[6433, 6553]
1536	[2822, 2823]	3584	[5545, 5546]	5632	[7296, 4027]	7680	[3294, 6554]
1537	[2824, 2825]	3585	[3176, 5547]	5633	[7297, 7298]	7681	[6580, 7929]
1538	[2826, 2827]	3586	[3022, 5548]	5634	[7299, 3408]	7682	[7916, 6785]
1539	[2828, 2829]	3587	[5549, 873]	5635	[3430, 7300]	7683	[8054, 5283]
1540	[2534, 2830]	3588	[2165, 1915]	5636	[7044, 7301]	7684	[6516, 5977]
1541	[665, 593]	3589	[2902, 5550]	5637	[7168, 7134]	7685	[6762, 2134]
1542	[2831, 2832]	3590	[5551, 5552]	5638	[4768, 4276]	7686	[630, 7938]
1543	[2833, 2447]	3591	[5553, 2058]	5639	[4723, 7302]	7687	[3067, 5946]
1544	[2597, 2834]	3592	[5554, 5555]	5640	[7303, 7304]	7688	[6200, 3089]
1545	[2794, 2835]	3593	[5556, 2691]	5641	[7305, 7306]	7689	[6066, 2944]
1546	[2836, 2837]	3594	[5557, 5558]	5642	[3640, 4326]	7690	[2744, 8020]

1547	[2541, 535]	3595	[5559, 5560]	5643	[7307, 4513]	7691	[8055, 6197]
1548	[2838, 2839]	3596	[2819, 1917]	5644	[1122, 7308]	7692	[707, 804]
1549	[2840, 2841]	3597	[2225, 517]	5645	[3936, 7309]	7693	[5993, 6487]
1550	[2842, 2843]	3598	[5561, 5562]	5646	[7310, 4910]	7694	[254, 3165]
1551	[2844, 2617]	3599	[5563, 635]	5647	[3523, 7311]	7695	[6527, 918]
1552	[2845, 2846]	3600	[5564, 5565]	5648	[7312, 7031]	7696	[2376, 3172]
1553	[2847, 2848]	3601	[565, 5566]	5649	[4752, 3667]	7697	[2659, 5898]
1554	[2849, 2850]	3602	[2728, 2362]	5650	[4762, 3669]	7698	[6103, 153]
1555	[2851, 2852]	3603	[2550, 3197]	5651	[7313, 3882]	7699	[7887, 6239]
1556	[2853, 2854]	3604	[5567, 5568]	5652	[3489, 4631]	7700	[6424, 155]
1557	[190, 2855]	3605	[5569, 2955]	5653	[4755, 7314]	7701	[6880, 5791]
1558	[2856, 2857]	3606	[5570, 5571]	5654	[4701, 7296]	7702	[6835, 585]
1559	[2858, 2859]	3607	[5572, 2160]	5655	[4625, 1327]	7703	[6458, 2185]
1560	[726, 2860]	3608	[2692, 5573]	5656	[4965, 7315]	7704	[6700, 7898]
1561	[2861, 2862]	3609	[2391, 2210]	5657	[1310, 73]	7705	[2364, 6596]
1562	[2467, 2863]	3610	[2335, 2212]	5658	[1681, 3576]	7706	[6508, 5852]
1563	[790, 2864]	3611	[5574, 5575]	5659	[3805, 4672]	7707	[6702, 7864]
1564	[2865, 2866]	3612	[5576, 5577]	5660	[1821, 3684]	7708	[5541, 6663]
1565	[2867, 812]	3613	[5578, 5517]	5661	[7316, 4943]	7709	[5410, 7942]
1566	[2868, 193]	3614	[5579, 5580]	5662	[1854, 7317]	7710	[5990, 5874]
1567	[2869, 2077]	3615	[5581, 5582]	5663	[1545, 7318]	7711	[561, 5695]
1568	[2870, 2519]	3616	[5583, 3091]	5664	[1833, 7319]	7712	[7964, 6739]
1569	[2871, 2872]	3617	[5584, 5585]	5665	[7183, 4646]	7713	[6145, 864]
1570	[2873, 2663]	3618	[5586, 2164]	5666	[7320, 365]	7714	[8041, 8028]
1571	[2874, 2875]	3619	[2835, 5587]	5667	[7321, 7322]	7715	[6518, 5570]
1572	[851, 2876]	3620	[5588, 5589]	5668	[4468, 7323]	7716	[3136, 2235]
1573	[170, 1879]	3621	[2804, 5590]	5669	[7324, 7325]	7717	[6491, 7920]
1574	[2877, 2538]	3622	[774, 5591]	5670	[4504, 1715]	7718	[1958, 5345]
1575	[2878, 2879]	3623	[12, 5592]	5671	[5045, 7088]	7719	[2199, 7976]
1576	[2880, 2881]	3624	[2980, 5593]	5672	[3470, 4760]	7720	[2949, 5891]
1577	[2882, 2883]	3625	[3233, 5594]	5673	[4537, 7326]	7721	[3198, 6512]
1578	[2884, 2885]	3626	[5595, 5596]	5674	[4141, 7277]	7722	[6489, 5892]
1579	[2886, 2887]	3627	[2875, 2544]	5675	[4091, 4470]	7723	[8027, 5847]
1580	[2888, 2889]	3628	[5597, 5598]	5676	[4072, 3783]	7724	[2269, 6778]
1581	[2890, 2891]	3629	[5599, 5600]	5677	[7130, 7327]	7725	[2593, 2278]
1582	[2892, 2893]	3630	[5601, 5602]	5678	[1308, 3445]	7726	[6932, 613]
1583	[2894, 2754]	3631	[5603, 5604]	5679	[4475, 7328]	7727	[7904, 5252]
1584	[2895, 2224]	3632	[1926, 1927]	5680	[3890, 4140]	7728	[3020, 821]
1585	[2896, 2177]	3633	[5605, 5606]	5681	[457, 4481]	7729	[976, 6698]
1586	[2897, 2898]	3634	[5607, 5608]	5682	[4437, 7329]	7730	[6819, 6354]
1587	[2899, 2900]	3635	[5609, 2820]	5683	[5100, 7330]	7731	[5674, 5605]
1588	[2901, 2902]	3636	[5610, 5611]	5684	[4259, 5129]	7732	[5320, 6585]
1589	[2569, 545]	3637	[5612, 5613]	5685	[7331, 7332]	7733	[7987, 7897]
1590	[2571, 2903]	3638	[5614, 5615]	5686	[4489, 7286]	7734	[5883, 7907]

1591	[2904, 2905]	3639	[3306, 5616]	5687	[7333, 5203]	7735	[7997, 5298]
1592	[2906, 2907]	3640	[5617, 5618]	5688	[7334, 7335]	7736	[7995, 6860]
1593	[2908, 2909]	3641	[8, 2607]	5689	[5130, 7213]	7737	[5334, 7892]
1594	[2903, 2910]	3642	[5619, 5620]	5690	[5126, 7336]	7738	[2611, 6226]
1595	[2911, 2912]	3643	[2317, 5621]	5691	[5128, 4772]	7739	[2495, 5420]
1596	[2913, 2914]	3644	[5622, 5623]	5692	[7109, 5071]	7740	[926, 6032]
1597	[2915, 2916]	3645	[2515, 5624]	5693	[7337, 7338]	7741	[6849, 6130]
1598	[2917, 2918]	3646	[5625, 2363]	5694	[4741, 4774]	7742	[7957, 3194]
1599	[2919, 2920]	3647	[2952, 5626]	5695	[4064, 265]	7743	[8044, 6125]
1600	[2921, 2922]	3648	[5627, 5628]	5696	[7339, 4453]	7744	[2308, 8000]
1601	[580, 2923]	3649	[5629, 2216]	5697	[5060, 7340]	7745	[7956, 657]
1602	[2924, 2500]	3650	[5630, 3023]	5698	[4295, 481]	7746	[8012, 885]
1603	[2925, 676]	3651	[5631, 3235]	5699	[4304, 3406]	7747	[6577, 6713]
1604	[2926, 2927]	3652	[5632, 5633]	5700	[7341, 7342]	7748	[6710, 2715]
1605	[2928, 2929]	3653	[5634, 2204]	5701	[7338, 471]	7749	[6238, 2968]
1606	[2930, 2931]	3654	[5635, 5636]	5702	[4810, 1490]	7750	[5829, 827]
1607	[2932, 2521]	3655	[5637, 5638]	5703	[6968, 3712]	7751	[2323, 5265]
1608	[2933, 2795]	3656	[5639, 5640]	5704	[7343, 7344]	7752	[687, 8021]
1609	[2934, 2935]	3657	[5641, 5642]	5705	[7345, 4960]	7753	[818, 7944]
1610	[2936, 1944]	3658	[5643, 2396]	5706	[7346, 7347]	7754	[5679, 5966]
1611	[2937, 2938]	3659	[2585, 2979]	5707	[3590, 3901]	7755	[6416, 7881]
1612	[2099, 2939]	3660	[5644, 2896]	5708	[4241, 1526]	7756	[5604, 7888]
1613	[2940, 2941]	3661	[2271, 5645]	5709	[7292, 5158]	7757	[5995, 8023]
1614	[2219, 2146]	3662	[208, 5390]	5710	[3862, 5013]	7758	[6890, 32]
1615	[2060, 2942]	3663	[5646, 5647]	5711	[7348, 1337]	7759	[6848, 5222]
1616	[2108, 2943]	3664	[5648, 3179]	5712	[7330, 1560]	7760	[5264, 7970]
1617	[2944, 2945]	3665	[3190, 629]	5713	[7349, 1317]	7761	[5316, 5297]
1618	[2946, 2947]	3666	[3186, 3318]	5714	[7350, 7154]	7762	[6609, 181]
1619	[2948, 2949]	3667	[5649, 5650]	5715	[7351, 4854]	7763	[6311, 8056]
1620	[2479, 2950]	3668	[5651, 2725]	5716	[4830, 7352]	7764	[786, 8014]
1621	[2488, 2951]	3669	[1984, 2981]	5717	[276, 1799]	7765	[2189, 6823]
1622	[2489, 2952]	3670	[5652, 5653]	5718	[7314, 7353]	7766	[5321, 7886]
1623	[2953, 2954]	3671	[5654, 3080]	5719	[7354, 7355]	7767	[6182, 8051]
1624	[2955, 2956]	3672	[3282, 2614]	5720	[7356, 4847]	7768	[6873, 6409]
1625	[2957, 2958]	3673	[5655, 5656]	5721	[7209, 1696]	7769	[8031, 8019]
1626	[2959, 794]	3674	[5657, 5658]	5722	[1609, 1698]	7770	[3229, 6324]
1627	[2960, 2961]	3675	[5659, 5660]	5723	[7318, 3619]	7771	[6282, 9]
1628	[2962, 2963]	3676	[5661, 1979]	5724	[1751, 7357]	7772	[6089, 3163]
1629	[2964, 2965]	3677	[5662, 2654]	5725	[7302, 7358]	7773	[7977, 8057]
1630	[2966, 2967]	3678	[5663, 5664]	5726	[304, 7359]	7774	[5804, 6099]
1631	[2968, 1937]	3679	[2116, 2529]	5727	[7360, 7361]	7775	[7999, 814]
1632	[2969, 769]	3680	[2643, 5665]	5728	[3744, 1323]	7776	[6765, 6176]
1633	[2970, 2971]	3681	[5666, 2847]	5729	[4150, 7280]	7777	[2351, 7893]
1634	[2972, 2973]	3682	[5479, 5667]	5730	[7300, 1735]	7778	[5225, 8053]

1635	[2974, 2975]	3683	[5668, 5669]	5731	[7362, 7363]	7779	[1918, 8004]
1636	[2976, 2379]	3684	[5367, 5670]	5732	[3539, 1606]	7780	[2599, 6759]
1637	[2977, 2978]	3685	[222, 5671]	5733	[1128, 7364]	7781	[8057, 8058]
1638	[2979, 2980]	3686	[5672, 5673]	5734	[7365, 7214]	7782	[5379, 3174]
1639	[2981, 2982]	3687	[2408, 5674]	5735	[3893, 7366]	7783	[6632, 207]
1640	[2983, 2048]	3688	[5675, 5424]	5736	[4316, 7367]	7784	[3044, 731]
1641	[2504, 2984]	3689	[2735, 2531]	5737	[120, 7042]	7785	[6328, 1923]
1642	[2985, 2986]	3690	[3153, 5676]	5738	[7368, 7232]	7786	[5633, 5980]
1643	[2987, 2988]	3691	[5503, 5677]	5739	[4879, 3635]	7787	[6153, 3256]
1644	[2989, 664]	3692	[5678, 2936]	5740	[7369, 3867]	7788	[8035, 1975]
1645	[2990, 2991]	3693	[703, 2553]	5741	[5091, 7029]	7789	[6548, 6914]
1646	[2992, 2993]	3694	[705, 3217]	5742	[1388, 7370]	7790	[6025, 6611]
1647	[2994, 2995]	3695	[3262, 5679]	5743	[7371, 995]	7791	[50, 8055]
1648	[2996, 2997]	3696	[5680, 2775]	5744	[7372, 7373]	7792	[7971, 6806]
1649	[2998, 2999]	3697	[5371, 5681]	5745	[4487, 3518]	7793	[6764, 7998]
1650	[3000, 3001]	3698	[5682, 5683]	5746	[7374, 3603]	7794	[5864, 6924]
1651	[3002, 3003]	3699	[5243, 2292]	5747	[7375, 4462]	7795	[571, 5702]
1652	[3004, 3005]	3700	[2497, 5684]	5748	[7376, 7377]	7796	[3029, 5845]
1653	[3006, 3007]	3701	[5685, 527]	5749	[7378, 7064]	7797	[6158, 6583]
1654	[3008, 3009]	3702	[5686, 5687]	5750	[4800, 7379]	7798	[8056, 7895]
1655	[3010, 3011]	3703	[5266, 5688]	5751	[3694, 6964]	7799	[6390, 2983]
1656	[3012, 3013]	3704	[3240, 5689]	5752	[7380, 7223]	7800	[7941, 5897]
1657	[3014, 3015]	3705	[5690, 5691]	5753	[7082, 7294]	7801	[8037, 2948]
1658	[3016, 625]	3706	[180, 5692]	5754	[4449, 4374]	7802	[5398, 5956]
1659	[3017, 3018]	3707	[734, 2181]	5755	[7235, 3510]	7803	[6031, 7949]
1660	[3019, 3020]	3708	[5693, 5694]	5756	[7381, 7382]	7804	[8047, 7878]
1661	[3021, 3022]	3709	[5695, 5696]	5757	[476, 1775]	7805	[6712, 8010]
1662	[3023, 3024]	3710	[5697, 5698]	5758	[7383, 1864]	7806	[6812, 5762]
1663	[62, 3025]	3711	[5699, 2071]	5759	[7384, 7385]	7807	[5797, 6168]
1664	[1881, 3026]	3712	[5700, 5701]	5760	[7386, 7387]	7808	[5867, 6474]
1665	[2314, 3027]	3713	[5702, 773]	5761	[1432, 1011]	7809	[6668, 2523]
1666	[3028, 3029]	3714	[5703, 5704]	5762	[7388, 4146]	7810	[6837, 2840]
1667	[3030, 3031]	3715	[5705, 5706]	5763	[7389, 7390]	7811	[8033, 6930]
1668	[3032, 3033]	3716	[5707, 2705]	5764	[3874, 5103]	7812	[8059, 6666]
1669	[3034, 3035]	3717	[2645, 5240]	5765	[1237, 1781]	7813	[2941, 5882]
1670	[3001, 3036]	3718	[5708, 2959]	5766	[7391, 4630]	7814	[6404, 8054]
1671	[3037, 2158]	3719	[5709, 159]	5767	[1126, 7392]	7815	[2609, 599]
1672	[3038, 3039]	3720	[2221, 5710]	5768	[4670, 7135]	7816	[5386, 7858]
1673	[3040, 3041]	3721	[5711, 692]	5769	[7308, 7393]	7817	[7993, 7996]
1674	[3042, 3043]	3722	[799, 5712]	5770	[7394, 4858]	7818	[7891, 6633]
1675	[1971, 3017]	3723	[5713, 680]	5771	[7395, 7396]	7819	[2720, 8052]
1676	[2000, 3044]	3724	[5594, 2723]	5772	[7397, 7333]	7820	[715, 5828]
1677	[3045, 3046]	3725	[2064, 5579]	5773	[7039, 7398]	7821	[3211, 5530]
1678	[3047, 3048]	3726	[5714, 706]	5774	[7246, 5208]	7822	[168, 547]

1679	[3049, 3050]	3727	[5715, 5716]	5775	[7399, 7400]	7823	[5218, 6538]
1680	[3051, 3052]	3728	[5717, 2870]	5776	[7315, 6999]	7824	[5496, 982]
1681	[2830, 3053]	3729	[5718, 5719]	5777	[3986, 7401]	7825	[5548, 601]
1682	[3054, 2420]	3730	[5720, 3224]	5778	[7402, 4117]	7826	[1928, 837]
1683	[3055, 1919]	3731	[5721, 5722]	5779	[7403, 3919]	7827	[6628, 6537]
1684	[530, 3056]	3732	[2922, 694]	5780	[4635, 7404]	7828	[8049, 3060]
1685	[3050, 3057]	3733	[5664, 5723]	5781	[3535, 7405]	7829	[2079, 2144]
1686	[3058, 3059]	3734	[5724, 5725]	5782	[7406, 5140]	7830	[2641, 6615]
1687	[3060, 3061]	3735	[5726, 5727]	5783	[7407, 4777]	7831	[154, 5843]
1688	[3062, 3063]	3736	[5728, 5729]	5784	[1010, 7408]	7832	[8060, 2230]
1689	[3064, 3065]	3737	[5730, 2612]	5785	[1269, 6971]	7833	[6076, 6719]
1690	[3066, 3067]	3738	[5731, 5732]	5786	[7409, 7274]	7834	[6013, 6119]
1691	[3068, 3069]	3739	[5497, 2476]	5787	[1085, 3853]	7835	[8034, 5836]
1692	[3070, 3071]	3740	[5733, 743]	5788	[7410, 3495]	7836	[8050, 33]
1693	[3072, 3073]	3741	[2637, 5734]	5789	[7411, 1223]	7837	[7955, 5494]
1694	[3074, 637]	3742	[5624, 5529]	5790	[7412, 7413]	7838	[6229, 5576]
1695	[3075, 3076]	3743	[5735, 2621]	5791	[998, 3410]	7839	[5395, 678]
1696	[3077, 2073]	3744	[5736, 5737]	5792	[4327, 7414]	7840	[3171, 6885]
1697	[3078, 3079]	3745	[5640, 5738]	5793	[7415, 7383]	7841	[8003, 6810]
1698	[3080, 3081]	3746	[1898, 5739]	5794	[7416, 4877]	7842	[6371, 2833]
1699	[2935, 3082]	3747	[5740, 5741]	5795	[7242, 3471]	7843	[7913, 6315]
1700	[3057, 3083]	3748	[5742, 5743]	5796	[4667, 5187]	7844	[2746, 2059]
1701	[2800, 177]	3749	[5744, 2325]	5797	[4172, 1259]	7845	[724, 8038]
1702	[3084, 3085]	3750	[5745, 2831]	5798	[1491, 4551]	7846	[6525, 2977]
1703	[2015, 3086]	3751	[3156, 1905]	5799	[4238, 3931]	7847	[2053, 649]
1704	[2711, 3087]	3752	[1972, 5746]	5800	[7117, 7417]	7848	[148, 6825]
1705	[2383, 3088]	3753	[5647, 5747]	5801	[7418, 3465]	7849	[8046, 5270]
1706	[3089, 3090]	3754	[5687, 5619]	5802	[7419, 7303]	7850	[8058, 8059]
1707	[3091, 2008]	3755	[5748, 5749]	5803	[431, 1765]	7851	[8061, 4848]
1708	[3092, 3093]	3756	[2132, 2624]	5804	[7420, 7263]	7852	[3396, 7606]
1709	[3094, 3095]	3757	[1956, 2717]	5805	[1722, 7421]	7853	[7241, 3800]
1710	[3096, 3097]	3758	[5750, 5751]	5806	[1314, 4915]	7854	[1782, 4009]
1711	[3098, 3099]	3759	[5752, 5753]	5807	[7422, 7381]	7855	[7533, 7449]
1712	[3100, 3101]	3760	[5323, 5754]	5808	[3384, 7159]	7856	[8062, 8063]
1713	[3102, 3103]	3761	[5544, 2652]	5809	[3967, 4040]	7857	[4961, 4224]
1714	[874, 3104]	3762	[5546, 5755]	5810	[7423, 7424]	7858	[1626, 7009]
1715	[2369, 3105]	3763	[5756, 5757]	5811	[7425, 7025]	7859	[7747, 3887]
1716	[3106, 3107]	3764	[5758, 5759]	5812	[7426, 7206]	7860	[7224, 8064]
1717	[3108, 3109]	3765	[5760, 5761]	5813	[3337, 7427]	7861	[7847, 8065]
1718	[3110, 3111]	3766	[5762, 2409]	5814	[1817, 7428]	7862	[7357, 5089]
1719	[48, 3112]	3767	[5763, 2136]	5815	[7429, 4213]	7863	[7270, 4510]
1720	[3113, 2871]	3768	[5764, 5765]	5816	[7123, 4180]	7864	[7448, 7811]
1721	[3114, 3115]	3769	[5366, 3257]	5817	[4681, 4586]	7865	[7825, 7600]
1722	[2443, 655]	3770	[5766, 5767]	5818	[1495, 1568]	7866	[6955, 7539]

1723	[3116, 3117]	3771	[1974, 5768]	5819	[7430, 7431]	7867	[4501, 123]
1724	[3118, 2056]	3772	[5769, 5770]	5820	[3809, 7415]	7868	[5162, 6958]
1725	[3119, 3120]	3773	[1883, 5369]	5821	[1618, 7432]	7869	[439, 7695]
1726	[3121, 3122]	3774	[5771, 5752]	5822	[3657, 3957]	7870	[7358, 4408]
1727	[3123, 3124]	3775	[146, 5772]	5823	[76, 7102]	7871	[1713, 4520]
1728	[887, 2768]	3776	[5773, 5346]	5824	[7041, 7433]	7872	[3731, 4540]
1729	[164, 3125]	3777	[5272, 5305]	5825	[7434, 7435]	7873	[7746, 450]
1730	[3126, 1957]	3778	[3278, 5774]	5826	[4454, 7436]	7874	[1514, 7845]
1731	[3127, 3128]	3779	[5230, 2970]	5827	[7437, 5057]	7875	[5179, 3679]
1732	[3129, 3130]	3780	[2577, 5226]	5828	[7438, 4929]	7876	[7850, 7740]
1733	[3131, 3132]	3781	[5775, 933]	5829	[1380, 1589]	7877	[7776, 7636]
1734	[3133, 3134]	3782	[5227, 5776]	5830	[7332, 4680]	7878	[7261, 1574]
1735	[3011, 2962]	3783	[2781, 2572]	5831	[7413, 3716]	7879	[7013, 7307]
1736	[3135, 3136]	3784	[5777, 5778]	5832	[7254, 7439]	7880	[1254, 4948]
1737	[3137, 3138]	3785	[5779, 167]	5833	[1586, 3508]	7881	[4427, 8066]
1738	[2537, 3139]	3786	[5780, 5781]	5834	[7440, 7441]	7882	[7737, 7023]
1739	[3140, 2503]	3787	[3027, 5782]	5835	[4806, 3528]	7883	[6967, 7678]
1740	[3141, 2753]	3788	[5783, 739]	5836	[7442, 7378]	7884	[3789, 493]
1741	[3142, 3068]	3789	[5784, 5785]	5837	[1430, 3488]	7885	[7789, 4206]
1742	[3143, 948]	3790	[5786, 5787]	5838	[5022, 1779]	7886	[4344, 7670]
1743	[3144, 2509]	3791	[5444, 2154]	5839	[408, 7443]	7887	[7684, 428]
1744	[3145, 3146]	3792	[5788, 3075]	5840	[412, 4691]	7888	[1829, 7195]
1745	[3147, 3148]	3793	[5789, 1959]	5841	[7444, 7445]	7889	[8065, 4869]
1746	[3149, 3150]	3794	[5790, 531]	5842	[7446, 107]	7890	[4678, 4996]
1747	[2914, 3151]	3795	[5791, 5792]	5843	[1300, 4410]	7891	[3842, 7349]
1748	[3152, 3153]	3796	[5793, 5794]	5844	[5136, 7447]	7892	[7795, 7085]
1749	[638, 3154]	3797	[2943, 3144]	5845	[3413, 7448]	7893	[4059, 7005]
1750	[3155, 3156]	3798	[5344, 2012]	5846	[7449, 7450]	7894	[7498, 7730]
1751	[3157, 3158]	3799	[5795, 2003]	5847	[3354, 111]	7895	[7758, 7113]
1752	[936, 2253]	3800	[5796, 672]	5848	[278, 113]	7896	[3581, 7784]
1753	[3159, 639]	3801	[3202, 5797]	5849	[4100, 7127]	7897	[7775, 4967]
1754	[3160, 3161]	3802	[5798, 2727]	5850	[4402, 7451]	7898	[7538, 7316]
1755	[2702, 3162]	3803	[969, 2730]	5851	[7452, 4002]	7899	[7815, 7738]
1756	[3163, 3164]	3804	[2481, 5799]	5852	[7453, 7454]	7900	[1424, 7754]
1757	[3165, 3166]	3805	[5800, 5554]	5853	[7141, 4420]	7901	[7593, 4598]
1758	[2814, 3167]	3806	[5801, 5802]	5854	[5110, 7455]	7902	[4778, 4902]
1759	[3168, 3169]	3807	[5803, 5804]	5855	[4942, 4281]	7903	[4893, 7337]
1760	[3170, 3171]	3808	[2975, 5805]	5856	[7058, 7456]	7904	[7808, 7430]
1761	[3172, 2162]	3809	[544, 5806]	5857	[7457, 1752]	7905	[4589, 8067]
1762	[3173, 1985]	3810	[5807, 2689]	5858	[4469, 279]	7906	[4968, 7120]
1763	[924, 2038]	3811	[3120, 5808]	5859	[4480, 7458]	7907	[7476, 7510]
1764	[3174, 2904]	3812	[2909, 5809]	5860	[1014, 5035]	7908	[4897, 4823]
1765	[3175, 3176]	3813	[5810, 161]	5861	[7459, 7239]	7909	[3917, 7282]
1766	[3177, 3178]	3814	[5811, 5812]	5862	[4293, 95]	7910	[7744, 3389]

1767	[3179, 3180]	3815	[3324, 2994]	5863	[7460, 7461]	7911	[8068, 3586]
1768	[3181, 2088]	3816	[2511, 5813]	5864	[7462, 7389]	7912	[3854, 7649]
1769	[3182, 3183]	3817	[5814, 5815]	5865	[7463, 4203]	7913	[6996, 7137]
1770	[711, 3184]	3818	[5816, 5817]	5866	[1798, 7464]	7914	[7184, 7783]
1771	[3185, 3186]	3819	[5818, 2192]	5867	[7465, 375]	7915	[5144, 7369]
1772	[3187, 3188]	3820	[3296, 1887]	5868	[7435, 7466]	7916	[7706, 7830]
1773	[3189, 3190]	3821	[5819, 5820]	5869	[4703, 1385]	7917	[7773, 8068]
1774	[3191, 3192]	3822	[5821, 3131]	5870	[7467, 7468]	7918	[7840, 3796]
1775	[2620, 3193]	3823	[5822, 633]	5871	[7469, 7470]	7919	[8069, 8070]
1776	[3194, 2756]	3824	[5823, 5824]	5872	[1561, 4956]	7920	[7763, 7596]
1777	[3195, 3196]	3825	[5825, 5655]	5873	[7471, 3753]	7921	[7624, 8071]
1778	[3197, 3198]	3826	[5826, 5827]	5874	[7074, 7472]	7922	[5134, 67]
1779	[3199, 3200]	3827	[5828, 5829]	5875	[4348, 7229]	7923	[8072, 3399]
1780	[3201, 3202]	3828	[5830, 5831]	5876	[4534, 7473]	7924	[1366, 7477]
1781	[822, 792]	3829	[5832, 5833]	5877	[390, 3671]	7925	[3988, 3776]
1782	[2330, 3203]	3830	[5834, 5835]	5878	[7474, 3857]	7926	[7175, 1274]
1783	[246, 2456]	3831	[5836, 5748]	5879	[4037, 4552]	7927	[4991, 3787]
1784	[3204, 3123]	3832	[5684, 5837]	5880	[3366, 502]	7928	[7682, 4920]
1785	[3205, 3206]	3833	[5838, 3213]	5881	[7475, 325]	7929	[4204, 7748]
1786	[660, 47]	3834	[204, 5839]	5882	[4254, 7476]	7930	[1707, 3548]
1787	[3207, 3208]	3835	[206, 5840]	5883	[3727, 7080]	7931	[5155, 7841]
1788	[2889, 3209]	3836	[5841, 5842]	5884	[5062, 4036]	7932	[1739, 1513]
1789	[2089, 3210]	3837	[5526, 2452]	5885	[7477, 7478]	7933	[8073, 1295]
1790	[658, 3211]	3838	[5843, 5760]	5886	[7479, 4356]	7934	[3334, 7522]
1791	[2729, 3212]	3839	[3244, 5844]	5887	[7060, 3554]	7935	[3332, 7823]
1792	[3213, 3214]	3840	[5845, 5846]	5888	[7480, 7481]	7936	[4290, 3459]
1793	[3215, 886]	3841	[5847, 5848]	5889	[7482, 7343]	7937	[5092, 3589]
1794	[3216, 3030]	3842	[2254, 2462]	5890	[3709, 337]	7938	[1762, 7767]
1795	[3217, 2480]	3843	[2461, 5440]	5891	[1749, 7483]	7939	[4597, 1117]
1796	[3218, 2416]	3844	[5849, 5416]	5892	[7484, 7423]	7940	[7739, 1234]
1797	[3219, 3220]	3845	[5850, 5391]	5893	[4794, 323]	7941	[1549, 7040]
1798	[3221, 3222]	3846	[5851, 2311]	5894	[7304, 1297]	7942	[8074, 7792]
1799	[2688, 3223]	3847	[5852, 5279]	5895	[7485, 7486]	7943	[7760, 7809]
1800	[3224, 3225]	3848	[5853, 5854]	5896	[5098, 7178]	7944	[4211, 3851]
1801	[2752, 3226]	3849	[3076, 5855]	5897	[1768, 5027]	7945	[8075, 7297]
1802	[3227, 2372]	3850	[5856, 3295]	5898	[7487, 4073]	7946	[400, 7788]
1803	[3228, 3229]	3851	[5857, 5858]	5899	[4466, 7488]	7947	[7210, 4935]
1804	[3230, 3231]	3852	[5859, 5534]	5900	[1222, 7126]	7948	[4728, 3702]
1805	[3232, 1993]	3853	[2581, 5860]	5901	[4396, 4018]	7949	[4658, 7753]
1806	[563, 3233]	3854	[2938, 5861]	5902	[3426, 7489]	7950	[4139, 1478]
1807	[2554, 3234]	3855	[5862, 2246]	5903	[4365, 7490]	7951	[4084, 7831]
1808	[3235, 823]	3856	[5863, 5864]	5904	[7491, 1283]	7952	[7588, 1612]
1809	[3236, 2844]	3857	[5776, 5865]	5905	[7492, 7493]	7953	[4318, 7821]
1810	[3237, 3238]	3858	[5866, 5867]	5906	[7243, 4486]	7954	[3750, 3483]

1811	[3239, 3240]	3859	[5868, 2996]	5907	[7494, 6988]	7955	[7119, 7839]
1812	[3241, 3242]	3860	[5869, 5870]	5908	[3485, 7495]	7956	[8064, 7507]
1813	[3243, 3244]	3861	[667, 5871]	5909	[7496, 1181]	7957	[7237, 1038]
1814	[3071, 3245]	3862	[5872, 5432]	5910	[7497, 7498]	7958	[7093, 7320]
1815	[3246, 912]	3863	[2802, 5873]	5911	[463, 4868]	7959	[5055, 4447]
1816	[3247, 3248]	3864	[5874, 5357]	5912	[1212, 6980]	7960	[1407, 4931]
1817	[762, 3249]	3865	[3085, 5875]	5913	[5080, 4330]	7961	[4871, 373]
1818	[3250, 3251]	3866	[5876, 2102]	5914	[78, 7499]	7962	[1537, 4639]
1819	[3252, 3253]	3867	[5669, 5877]	5915	[7267, 4047]	7963	[4571, 7356]
1820	[3254, 3255]	3868	[58, 5878]	5916	[4451, 7500]	7964	[7785, 6953]
1821	[3256, 3019]	3869	[5879, 5880]	5917	[5025, 7501]	7965	[3499, 7216]
1822	[3257, 3258]	3870	[2101, 2517]	5918	[4751, 7189]	7966	[7559, 3721]
1823	[3259, 3260]	3871	[2954, 5881]	5919	[1330, 7502]	7967	[7655, 3724]
1824	[3261, 3262]	3872	[5882, 5883]	5920	[1016, 7503]	7968	[7835, 3830]
1825	[3263, 3264]	3873	[5884, 5885]	5921	[1747, 7504]	7969	[7163, 8076]
1826	[3265, 3126]	3874	[5886, 5887]	5922	[4618, 4801]	7970	[4450, 5053]
1827	[3266, 2598]	3875	[5805, 5888]	5923	[1374, 3695]	7971	[7632, 7836]
1828	[3267, 3268]	3876	[5889, 5890]	5924	[7283, 7321]	7972	[1695, 4039]
1829	[3269, 3270]	3877	[5891, 5731]	5925	[7108, 5191]	7973	[1248, 1556]
1830	[3271, 3272]	3878	[5892, 5893]	5926	[7505, 7059]	7974	[3910, 1279]
1831	[2240, 3273]	3879	[5894, 5895]	5927	[7506, 3737]	7975	[7180, 7265]
1832	[3274, 3275]	3880	[2916, 5896]	5928	[7507, 7508]	7976	[7439, 8077]
1833	[3276, 3037]	3881	[5897, 5315]	5929	[5021, 7509]	7977	[3827, 8078]
1834	[3048, 3277]	3882	[5898, 5899]	5930	[4070, 3770]	7978	[7686, 97]
1835	[2811, 3278]	3883	[5900, 5414]	5931	[4352, 3645]	7979	[7251, 3393]
1836	[3279, 3280]	3884	[5901, 5902]	5932	[7510, 7279]	7980	[4346, 1710]
1837	[3281, 3282]	3885	[152, 5480]	5933	[1417, 4023]	7981	[4535, 1642]
1838	[2596, 3283]	3886	[5903, 5904]	5934	[7069, 7511]	7982	[84, 7822]
1839	[3284, 3285]	3887	[748, 5905]	5935	[1553, 4850]	7983	[20, 8075]
1840	[2734, 3173]	3888	[5906, 2675]	5936	[5124, 4246]	7984	[7709, 4595]
1841	[3286, 2636]	3889	[5907, 5908]	5937	[7306, 3911]	7985	[7806, 5165]
1842	[3287, 2103]	3890	[2950, 3263]	5938	[7016, 3812]	7986	[4362, 8074]
1843	[3288, 3289]	3891	[5909, 1963]	5939	[7451, 7512]	7987	[7008, 7482]
1844	[3290, 3291]	3892	[5910, 5540]	5940	[7024, 1668]	7988	[8063, 7716]
1845	[3292, 3293]	3893	[5911, 5912]	5941	[7002, 5174]	7989	[7436, 8069]
1846	[3087, 3294]	3894	[650, 5913]	5942	[4971, 4821]	7990	[7817, 7295]
1847	[3295, 3296]	3895	[5914, 2299]	5943	[4015, 5003]	7991	[270, 5076]
1848	[3297, 2115]	3896	[5915, 2339]	5944	[7513, 4609]	7992	[8071, 4711]
1849	[3298, 3016]	3897	[5508, 5520]	5945	[4461, 4429]	7993	[1844, 7812]
1850	[3299, 3300]	3898	[2649, 5916]	5946	[7514, 1045]	7994	[7095, 4831]
1851	[3301, 245]	3899	[5547, 5917]	5947	[7515, 7516]	7995	[7833, 4375]
1852	[2846, 1893]	3900	[621, 2937]	5948	[7517, 3677]	7996	[7493, 7465]
1853	[2501, 3302]	3901	[5550, 5918]	5949	[7518, 7182]	7997	[8066, 5209]
1854	[3303, 3137]	3902	[5919, 5920]	5950	[4160, 7193]	7998	[7366, 1656]

1855	[3304, 3305]	3903	[5921, 5922]	5951	[7373, 7098]	7999	[7827, 4560]
1856	[3130, 3306]	3904	[5923, 5924]	5952	[4758, 3520]	8000	[8067, 3525]
1857	[3307, 3308]	3905	[853, 5925]	5953	[114, 7198]	8001	[4642, 8079]
1858	[3309, 3310]	3906	[5904, 5926]	5954	[1290, 7519]	8002	[4491, 7658]
1859	[594, 3311]	3907	[5927, 2933]	5955	[7470, 5215]	8003	[3717, 7781]
1860	[3312, 785]	3908	[5928, 5726]	5956	[4550, 329]	8004	[3400, 4279]
1861	[3117, 927]	3909	[5929, 2150]	5957	[1440, 7434]	8005	[8070, 4012]
1862	[3313, 2107]	3910	[5878, 5930]	5958	[5095, 7360]	8006	[7768, 5083]
1863	[2601, 2017]	3911	[1952, 5931]	5959	[7323, 4222]	8007	[4771, 8072]
1864	[3314, 3049]	3912	[5611, 5932]	5960	[7441, 7520]	8008	[3428, 8073]
1865	[3315, 3316]	3913	[2770, 5933]	5961	[4512, 7521]	8009	[7525, 7814]
1866	[2234, 3317]	3914	[5934, 2826]	5962	[7522, 7523]	8010	[4887, 1121]
1867	[3318, 2796]	3915	[5580, 5935]	5963	[1409, 4827]	8011	[4649, 4895]
1868	[3319, 3320]	3916	[5936, 2588]	5964	[1825, 1046]	8012	[4199, 1683]
1869	[3321, 3322]	3917	[2425, 603]	5965	[7329, 3559]	8013	[7489, 7407]
1870	[3323, 3324]	3918	[5606, 5937]	5966	[5119, 5074]	8014	[4951, 7804]
1871	[2260, 2992]	3919	[5938, 2187]	5967	[7328, 7524]	8015	[3938, 4913]
1872	[130, 1886]	3920	[5824, 5939]	5968	[1151, 7525]	8016	[7715, 1686]
1873	[3325, 2590]	3921	[5940, 5941]	5969	[7486, 7526]	8017	[1543, 4252]
1874	[3326, 3327]	3922	[5343, 5942]	5970	[7527, 7171]	8018	[7194, 7819]
1875	[2507, 3328]	3923	[5943, 591]	5971	[5107, 7172]	8019	[7844, 7799]
1876	[2887, 3329]	3924	[5944, 5945]	5972	[5041, 1593]	8020	[4565, 4889]
1877	[3330, 568]	3925	[5946, 5947]	5973	[7139, 7515]	8021	[5204, 7354]
1878	[3331, 3332]	3926	[5660, 5948]	5974	[7528, 5137]	8022	[7253, 1857]
1879	[3333, 3334]	3927	[2589, 5949]	5975	[7529, 4994]	8023	[3676, 7848]
1880	[3335, 1289]	3928	[2923, 5430]	5976	[5170, 6945]	8024	[5135, 7780]
1881	[3336, 3337]	3929	[5642, 2551]	5977	[5167, 4861]	8025	[1033, 8062]
1882	[3338, 3339]	3930	[5447, 5950]	5978	[4936, 7419]	8026	[1139, 7019]
1883	[3340, 1608]	3931	[5951, 5952]	5979	[7530, 4476]	8027	[4624, 4236]
1884	[1267, 3333]	3932	[5875, 5910]	5980	[1756, 7531]	8028	[1030, 7380]
1885	[3341, 3342]	3933	[5953, 5498]	5981	[7298, 7532]	8029	[8076, 7616]
1886	[3343, 3344]	3934	[5954, 5955]	5982	[3697, 1015]	8030	[7248, 1371]
1887	[3345, 3346]	3935	[5956, 61]	5983	[4867, 7533]	8031	[7666, 7513]
1888	[3347, 3348]	3936	[869, 5957]	5984	[82, 7534]	8032	[7639, 6954]
1889	[3349, 3350]	3937	[5555, 1951]	5985	[3339, 7535]	8033	[1362, 6960]
1890	[3351, 3352]	3938	[3184, 5958]	5986	[7536, 309]	8034	[1466, 7376]
1891	[3353, 3354]	3939	[791, 5959]	5987	[7537, 7538]	8035	[306, 7710]
1892	[1571, 3355]	3940	[5960, 3074]	5988	[7539, 4123]	8036	[8079, 3714]
1893	[3356, 3357]	3941	[2696, 5961]	5989	[3503, 4819]	8037	[4764, 7234]
1894	[3358, 3359]	3942	[5269, 5962]	5990	[7473, 7245]	8038	[4006, 5065]
1895	[3360, 3361]	3943	[3124, 2082]	5991	[1095, 4391]	8039	[3736, 5004]
1896	[3362, 3363]	3944	[5749, 5963]	5992	[7540, 4657]	8040	[501, 3613]
1897	[3364, 444]	3945	[5964, 149]	5993	[7207, 4479]	8041	[5064, 353]
1898	[3365, 3366]	3946	[5683, 5965]	5994	[4596, 4286]	8042	[4602, 3360]

1899	[3367, 3368]	3947	[5966, 5967]	5995	[4647, 7541]	8043	[7620, 4306]
1900	[3369, 3370]	3948	[5968, 5969]	5996	[3600, 1040]	8044	[5163, 7617]
1901	[3371, 3372]	3949	[5970, 5971]	5997	[1087, 7138]	8045	[4291, 4874]
1902	[3373, 3374]	3950	[5972, 5973]	5998	[26, 7542]	8046	[7250, 7052]
1903	[3375, 3376]	3951	[5974, 5853]	5999	[404, 4733]	8047	[3877, 4317]
1904	[3377, 3378]	3952	[5975, 5976]	6000	[7532, 7543]	8048	[8078, 7828]
1905	[1296, 3379]	3953	[5977, 5901]	6001	[7544, 1680]	8049	[4789, 4353]
1906	[3380, 3381]	3954	[5978, 5801]	6002	[4539, 7474]	8050	[7424, 4102]
1907	[3382, 3383]	3955	[5979, 2505]	6003	[72, 385]	8051	[6993, 4756]
1908	[1132, 3384]	3956	[5980, 5981]	6004	[7545, 1183]	8052	[7779, 7573]
1909	[1877, 3385]	3957	[2738, 5641]	6005	[7546, 7547]	8053	[7266, 7386]
1910	[3386, 1576]	3958	[940, 5982]	6006	[106, 7068]	8054	[7317, 7708]
1911	[3387, 3388]	3959	[3046, 5983]	6007	[3992, 7420]	8055	[4982, 4906]
1912	[3389, 3390]	3960	[3260, 5984]	6008	[7548, 3588]	8056	[4585, 7651]
1913	[3391, 3392]	3961	[5985, 5986]	6009	[3458, 3865]	8057	[8077, 8080]
1914	[3393, 3394]	3962	[5987, 5988]	6010	[4302, 7384]	8058	[7846, 7772]
1915	[3395, 3396]	3963	[793, 3110]	6011	[7549, 4436]	8059	[8080, 7832]
1916	[3397, 3398]	3964	[5582, 5588]	6012	[7550, 7551]	8060	[7800, 3880]
1917	[3399, 3400]	3965	[5989, 5248]	6013	[1180, 7552]	8061	[8081, 2475]
1918	[3401, 3402]	3966	[701, 5990]	6014	[7553, 7554]	8062	[1966, 211]
1919	[3403, 3343]	3967	[5991, 5394]	6015	[3799, 1054]	8063	[1968, 5290]
1920	[3404, 3405]	3968	[5613, 5992]	6016	[1575, 115]	8064	[6894, 6752]
1921	[3406, 3407]	3969	[738, 5993]	6017	[7555, 1333]	8065	[6697, 7947]
1922	[3408, 3409]	3970	[5994, 5995]	6018	[7556, 1599]	8066	[6030, 2917]
1923	[3410, 3411]	3971	[5996, 5997]	6019	[7557, 1136]	8067	[6562, 5474]
1924	[3412, 3413]	3972	[5998, 3118]	6020	[7558, 7559]	8068	[7978, 7918]
1925	[414, 3414]	3973	[202, 5999]	6021	[3492, 3720]	8069	[6451, 203]
1926	[386, 3415]	3974	[6000, 2782]	6022	[7560, 5073]	8070	[6750, 5268]
1927	[3414, 3416]	3975	[6001, 247]	6023	[7015, 7133]	8071	[6883, 5501]
1928	[3417, 3418]	3976	[6002, 971]	6024	[6973, 5094]	8072	[2657, 6631]
1929	[3419, 3420]	3977	[6003, 6004]	6025	[3856, 7561]	8073	[5296, 2428]
1930	[3372, 1425]	3978	[6005, 6006]	6026	[5079, 3909]	8074	[5224, 6067]
1931	[3421, 3422]	3979	[6007, 5803]	6027	[7432, 3970]	8075	[5349, 3084]
1932	[3423, 3424]	3980	[5768, 6008]	6028	[3585, 7514]	8076	[2139, 2822]
1933	[3425, 3426]	3981	[2451, 6009]	6029	[7562, 7491]	8077	[5538, 8060]
1934	[504, 3427]	3982	[6010, 6011]	6030	[7563, 5178]	8078	[5827, 7989]
1935	[1415, 3428]	3983	[6012, 6013]	6031	[1328, 3804]	8079	[6603, 5705]
1936	[3429, 3430]	3984	[5493, 5475]	6032	[7084, 7564]	8080	[8015, 6664]
1937	[3431, 3432]	3985	[6014, 6015]	6033	[1770, 7565]	8081	[8082, 4542]
1938	[3433, 3434]	3986	[6016, 6017]	6034	[7385, 5033]	8082	[8083, 5767]
1939	[3435, 3436]	3987	[3238, 5690]	6035	[4587, 7566]	8083	[8084, 5070]
1940	[3437, 3438]	3988	[5361, 2370]	6036	[6997, 7035]	8084	[8085, 5879]
1941	[3439, 3440]	3989	[6018, 5413]	6037	[4033, 7567]	8085	[8086, 3366]
1942	[3441, 3442]	3990	[5755, 5387]	6038	[7568, 4343]	8086	[8087, 979]

1943	[3443, 3444]	3991	[6019, 2972]	6039	[7543, 4549]	8087	[8088, 1677]
1944	[3445, 3446]	3992	[6020, 6021]	6040	[5066, 3763]	8088	[8089, 2818]
1945	[18, 3447]	3993	[38, 6022]	6041	[3534, 1484]	8089	[8090, 4656]
1946	[316, 454]	3994	[6023, 5850]	6042	[4882, 6991]	8090	[8091, 5310]
1947	[1780, 3448]	3995	[5667, 3195]	6043	[4105, 1482]	8091	[8092, 7033]
1948	[3449, 3450]	3996	[6024, 6025]	6044	[4522, 7569]	8092	[8093, 2724]
1949	[1493, 1841]	3997	[6026, 5654]	6045	[3624, 5111]	8093	[8094, 3890]
1950	[3451, 3452]	3998	[6027, 2290]	6046	[5139, 7570]	8094	[8095, 6169]
1951	[3453, 3454]	3999	[2302, 6028]	6047	[310, 7571]	8095	[8096, 7633]
1952	[3455, 1552]	4000	[6029, 6030]	6048	[7233, 1793]	8096	[8097, 906]
1953	[484, 3456]	4001	[689, 6031]	6049	[3715, 7057]	8097	[8098, 1733]
1954	[3457, 3458]	4002	[6032, 6033]	6050	[7572, 1530]	8098	[8099, 3133]
1955	[3459, 3460]	4003	[6034, 3157]	6051	[7573, 4643]	8099	[8100, 322]
1956	[3461, 3462]	4004	[2666, 831]	6052	[7574, 7575]	8100	[8101, 6653]
1957	[3463, 3464]	4005	[5488, 2901]	6053	[3872, 7576]	8101	[8102, 4316]
1958	[3465, 3466]	4006	[656, 1884]	6054	[7577, 7578]	8102	[8103, 3268]
1959	[3467, 3468]	4007	[2821, 5919]	6055	[7579, 4303]	8103	[8104, 3562]
1960	[3469, 3470]	4008	[578, 6035]	6056	[3935, 4722]	8104	[8105, 3280]
1961	[3471, 3472]	4009	[6036, 3274]	6057	[7580, 4363]	8105	[8106, 5078]
1962	[3473, 1868]	4010	[3203, 6037]	6058	[7367, 7557]	8106	[8107, 2735]
1963	[3474, 1788]	4011	[6038, 1983]	6059	[4732, 6976]	8107	[8108, 1851]
1964	[3475, 3476]	4012	[960, 6039]	6060	[7581, 7582]	8108	[8109, 243]
1965	[3477, 422]	4013	[6040, 3266]	6061	[7401, 7066]	8109	[8110, 487]
1966	[376, 1528]	4014	[5276, 2760]	6062	[6983, 7341]	8110	[8111, 954]
1967	[3478, 3479]	4015	[6041, 5998]	6063	[6947, 1644]	8111	[8112, 1824]
1968	[410, 3480]	4016	[3013, 6042]	6064	[1455, 7583]	8112	[8113, 3263]
1969	[3481, 1287]	4017	[6043, 6044]	6065	[7584, 7585]	8113	[8114, 5157]
1970	[1172, 3482]	4018	[6045, 6046]	6066	[1745, 4804]	8114	[8115, 1965]
1971	[3483, 3484]	4019	[6047, 3239]	6067	[7586, 7463]	8115	[8116, 376]
1972	[1776, 3485]	4020	[6048, 6049]	6068	[7128, 4891]	8116	[8117, 2810]
1973	[3486, 3487]	4021	[6050, 6051]	6069	[7587, 7588]	8117	[8118, 23]
1974	[3488, 1540]	4022	[224, 179]	6070	[7589, 7208]	8118	[8119, 49]
1975	[22, 3489]	4023	[6052, 6053]	6071	[4440, 4563]	8119	[8120, 101]
1976	[3490, 99]	4024	[6054, 6055]	6072	[7590, 5183]	8120	[8121, 205]
1977	[1590, 3491]	4025	[6056, 5906]	6073	[3472, 4175]	8121	[8122, 413]
1978	[1176, 3492]	4026	[2997, 595]	6074	[5125, 7591]	8122	[8123, 816]
1979	[3493, 3494]	4027	[6057, 6058]	6075	[4696, 4939]	8123	[8124, 1449]
1980	[3495, 3496]	4028	[805, 6059]	6076	[1182, 3387]	8124	[8125, 2871]
1981	[1178, 3497]	4029	[6060, 6061]	6077	[7592, 7593]	8125	[8126, 4524]
1982	[3498, 3499]	4030	[693, 6062]	6078	[7222, 7331]	8126	[8127, 510]
1983	[3500, 3501]	4031	[2205, 6063]	6079	[4754, 7594]	8127	[8128, 7656]
1984	[3502, 3503]	4032	[6064, 6065]	6080	[429, 4779]	8128	[8129, 220]
1985	[3504, 3505]	4033	[5524, 6066]	6081	[1663, 4699]	8129	[8130, 4290]
1986	[3506, 3507]	4034	[6067, 6068]	6082	[7192, 3698]	8130	[8131, 1920]

1987	[3508, 3509]	4035	[6069, 5377]	6083	[6985, 7252]	8131	[8132, 260]
1988	[3510, 3511]	4036	[5368, 5773]	6084	[7203, 7595]	8132	[8133, 2918]
1989	[1738, 3512]	4037	[6070, 6071]	6085	[7596, 4941]	8133	[8134, 4400]
1990	[3513, 3514]	4038	[855, 5643]	6086	[4890, 3538]	8134	[8135, 2173]
1991	[3515, 468]	4039	[6072, 5856]	6087	[6965, 7597]	8135	[8136, 316]
1992	[3516, 3517]	4040	[6073, 6074]	6088	[1846, 7598]	8136	[8137, 890]
1993	[3518, 3519]	4041	[6075, 3070]	6089	[3678, 5039]	8137	[8138, 1702]
1994	[3520, 413]	4042	[612, 6076]	6090	[1732, 7560]	8138	[8139, 2015]
1995	[447, 3521]	4043	[6077, 6078]	6091	[7565, 4601]	8139	[8140, 4956]
1996	[3522, 3523]	4044	[2070, 5903]	6092	[4373, 7599]	8140	[8141, 6805]
1997	[3392, 3524]	4045	[1976, 6079]	6093	[7600, 303]	8141	[8142, 7238]
1998	[3525, 3526]	4046	[574, 6080]	6094	[1130, 7601]	8142	[8143, 3009]
1999	[330, 3527]	4047	[548, 5465]	6095	[7547, 4104]	8143	[8144, 442]
2000	[992, 3467]	4048	[2028, 5811]	6096	[3454, 1688]	8144	[8145, 870]
2001	[3528, 3419]	4049	[6081, 49]	6097	[1701, 4044]	8145	[8146, 1666]
2002	[3529, 3530]	4050	[6082, 5338]	6098	[3638, 7365]	8146	[8147, 3030]
2003	[3531, 3532]	4051	[6083, 2388]	6099	[7602, 7011]	8147	[8148, 4902]
2004	[3533, 3534]	4052	[5677, 6084]	6100	[5196, 105]	8148	[8149, 5259]
2005	[3514, 3535]	4053	[6085, 929]	6101	[3758, 1253]	8149	[8150, 7772]
2006	[3536, 3537]	4054	[6086, 2006]	6102	[7211, 7568]	8150	[8151, 2702]
2007	[3538, 3539]	4055	[5399, 6087]	6103	[4782, 1408]	8151	[8152, 1067]
2008	[3540, 261]	4056	[878, 2880]	6104	[7355, 7603]	8152	[8153, 614]
2009	[3541, 3542]	4057	[2591, 5322]	6105	[4421, 7402]	8153	[8154, 1703]
2010	[3543, 1140]	4058	[5286, 6088]	6106	[7604, 3685]	8154	[8155, 3140]
2011	[1588, 3544]	4059	[2010, 6089]	6107	[4848, 7100]	8155	[8156, 4268]
2012	[3545, 3546]	4060	[6090, 6091]	6108	[3895, 7605]	8156	[8157, 3261]
2013	[3547, 1387]	4061	[6092, 6093]	6109	[7606, 1197]	8157	[8158, 4380]
2014	[3548, 3549]	4062	[6094, 3119]	6110	[4121, 1086]	8158	[8159, 838]
2015	[3550, 3340]	4063	[6095, 783]	6111	[7607, 1175]	8159	[8160, 3448]
2016	[1280, 3551]	4064	[2573, 6096]	6112	[1284, 4593]	8160	[8161, 7961]
2017	[3552, 3553]	4065	[2303, 2736]	6113	[3829, 7608]	8161	[8162, 1174]
2018	[3554, 3555]	4066	[5577, 6097]	6114	[7322, 7348]	8162	[8163, 6074]
2019	[3556, 3557]	4067	[6098, 2237]	6115	[7609, 7610]	8163	[8164, 4138]
2020	[1353, 3558]	4068	[6099, 6100]	6116	[4297, 7611]	8164	[8165, 2885]
2021	[3559, 3493]	4069	[6101, 523]	6117	[3653, 7528]	8165	[8166, 1189]
2022	[3560, 3561]	4070	[6102, 6103]	6118	[294, 7149]	8166	[8167, 2246]
2023	[3562, 3563]	4071	[6104, 2320]	6119	[7551, 7612]	8167	[8168, 1275]
2024	[1629, 3564]	4072	[6105, 5777]	6120	[7613, 5202]	8168	[8169, 2760]
2025	[3565, 3566]	4073	[2002, 6106]	6121	[1819, 7240]	8169	[8170, 1037]
2026	[3567, 1391]	4074	[5917, 6107]	6122	[7067, 5184]	8170	[8171, 6563]
2027	[1691, 3568]	4075	[6108, 6109]	6123	[7614, 5154]	8171	[8172, 7783]
2028	[3569, 3570]	4076	[6110, 6111]	6124	[7615, 4542]	8172	[8173, 7986]
2029	[3571, 3572]	4077	[3196, 6112]	6125	[7616, 1536]	8173	[8174, 7289]
2030	[3573, 1357]	4078	[6113, 6114]	6126	[7617, 1587]	8174	[8175, 6844]

2031	[3574, 3575]	4079	[6115, 6116]	6127	[1853, 4993]	8175	[8176, 7686]
2032	[3576, 3577]	4080	[6117, 6118]	6128	[1401, 438]	8176	[8177, 195]
2033	[3578, 3579]	4081	[2876, 3108]	6129	[7238, 7618]	8177	[8178, 393]
2034	[3580, 3581]	4082	[6119, 560]	6130	[6949, 3565]	8178	[8179, 778]
2035	[3582, 1532]	4083	[6120, 3021]	6131	[7619, 7620]	8179	[8180, 1500]
2036	[3583, 3584]	4084	[6121, 2969]	6132	[3448, 7621]	8180	[8181, 2768]
2037	[1826, 1729]	4085	[6122, 6123]	6133	[1073, 7350]	8181	[8182, 4040]
2038	[1764, 1075]	4086	[2315, 6124]	6134	[4669, 4790]	8182	[8183, 6075]
2039	[1766, 3585]	4087	[5303, 6019]	6135	[3651, 7563]	8183	[8184, 4124]
2040	[3586, 3587]	4088	[6125, 6126]	6136	[4357, 7444]	8184	[8185, 6667]
2041	[3588, 1005]	4089	[6127, 6094]	6137	[7622, 7623]	8185	[8186, 7120]
2042	[3589, 3590]	4090	[6128, 5869]	6138	[5077, 7624]	8186	[8187, 3178]
2043	[3591, 3592]	4091	[6129, 3113]	6139	[7114, 7116]	8187	[8188, 4082]
2044	[1055, 3593]	4092	[6130, 6131]	6140	[4529, 7625]	8188	[1, 5495]
2045	[3487, 3594]	4093	[5461, 2570]	6141	[1533, 7626]		
2046	[374, 3595]	4094	[838, 6132]	6142	[4807, 4458]		
2047	[3596, 3597]	4095	[5817, 2758]	6143	[7627, 7425]		

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	1365	1	2730	1	4095	0	5460	0	6825	0
1	0	1366	0	2731	0	4096	1	5461	0	6826	0
2	1	1367	1	2732	1	4097	1	5462	0	6827	0
3	0	1368	1	2733	1	4098	1	5463	0	6828	1
4	1	1369	1	2734	0	4099	1	5464	1	6829	1
5	1	1370	0	2735	0	4100	0	5465	0	6830	0
6	0	1371	1	2736	1	4101	1	5466	1	6831	0
7	0	1372	0	2737	0	4102	0	5467	1	6832	1
8	0	1373	1	2738	1	4103	0	5468	1	6833	0
9	1	1374	0	2739	0	4104	0	5469	1	6834	0
10	1	1375	1	2740	0	4105	0	5470	0	6835	1
11	1	1376	0	2741	1	4106	1	5471	1	6836	0
12	1	1377	1	2742	0	4107	0	5472	1	6837	0
13	0	1378	1	2743	0	4108	1	5473	1	6838	1
14	0	1379	0	2744	0	4109	0	5474	0	6839	0
15	0	1380	0	2745	0	4110	0	5475	1	6840	0
16	0	1381	1	2746	1	4111	1	5476	0	6841	1
17	0	1382	1	2747	0	4112	0	5477	1	6842	0
18	1	1383	0	2748	0	4113	1	5478	0	6843	1
19	1	1384	1	2749	1	4114	1	5479	0	6844	0
20	0	1385	1	2750	1	4115	0	5480	1	6845	1
21	1	1386	1	2751	0	4116	0	5481	0	6846	1
22	1	1387	0	2752	1	4117	0	5482	1	6847	0
23	1	1388	0	2753	0	4118	0	5483	1	6848	1

24	0	1389	0	2754	0	4119	1	5484	1	6849	0
25	1	1390	1	2755	1	4120	0	5485	1	6850	1
26	1	1391	1	2756	1	4121	1	5486	1	6851	0
27	0	1392	1	2757	1	4122	1	5487	1	6852	0
28	1	1393	1	2758	1	4123	1	5488	1	6853	0
29	0	1394	1	2759	0	4124	1	5489	1	6854	1
30	0	1395	0	2760	0	4125	0	5490	0	6855	0
31	0	1396	1	2761	1	4126	1	5491	0	6856	1
32	0	1397	1	2762	1	4127	0	5492	1	6857	1
33	0	1398	1	2763	0	4128	1	5493	1	6858	0
34	1	1399	1	2764	1	4129	1	5494	1	6859	1
35	0	1400	0	2765	0	4130	1	5495	1	6860	0
36	1	1401	1	2766	1	4131	0	5496	0	6861	1
37	1	1402	0	2767	0	4132	0	5497	0	6862	0
38	1	1403	1	2768	0	4133	1	5498	1	6863	1
39	1	1404	0	2769	1	4134	1	5499	0	6864	0
40	0	1405	0	2770	0	4135	1	5500	1	6865	0
41	0	1406	1	2771	1	4136	0	5501	1	6866	0
42	0	1407	0	2772	0	4137	0	5502	0	6867	1
43	1	1408	0	2773	0	4138	1	5503	0	6868	0
44	1	1409	1	2774	0	4139	0	5504	0	6869	0
45	1	1410	0	2775	1	4140	0	5505	0	6870	1
46	1	1411	1	2776	0	4141	0	5506	0	6871	0
47	1	1412	0	2777	0	4142	1	5507	0	6872	0
48	0	1413	1	2778	1	4143	1	5508	1	6873	1
49	0	1414	1	2779	1	4144	0	5509	0	6874	1
50	0	1415	1	2780	0	4145	0	5510	0	6875	0
51	1	1416	1	2781	0	4146	0	5511	1	6876	1
52	0	1417	1	2782	0	4147	0	5512	1	6877	0
53	1	1418	0	2783	1	4148	1	5513	0	6878	0
54	1	1419	0	2784	1	4149	1	5514	1	6879	0
55	0	1420	0	2785	1	4150	0	5515	0	6880	0
56	1	1421	0	2786	1	4151	1	5516	0	6881	0
57	1	1422	1	2787	0	4152	0	5517	0	6882	0
58	1	1423	1	2788	1	4153	0	5518	1	6883	0
59	0	1424	0	2789	1	4154	1	5519	0	6884	0
60	0	1425	1	2790	1	4155	0	5520	1	6885	1
61	0	1426	0	2791	1	4156	1	5521	1	6886	1
62	1	1427	1	2792	0	4157	1	5522	0	6887	0
63	0	1428	0	2793	1	4158	1	5523	0	6888	0
64	1	1429	1	2794	0	4159	0	5524	0	6889	1
65	0	1430	1	2795	1	4160	1	5525	1	6890	1
66	0	1431	1	2796	0	4161	1	5526	0	6891	1
67	0	1432	1	2797	0	4162	1	5527	1	6892	0

68	1	1433	1	2798	0	4163	1	5528	0	6893	0
69	1	1434	0	2799	1	4164	0	5529	0	6894	1
70	0	1435	0	2800	0	4165	0	5530	0	6895	0
71	0	1436	1	2801	0	4166	1	5531	0	6896	1
72	0	1437	0	2802	1	4167	1	5532	1	6897	0
73	1	1438	0	2803	1	4168	1	5533	1	6898	1
74	1	1439	1	2804	1	4169	0	5534	1	6899	0
75	1	1440	0	2805	1	4170	0	5535	0	6900	0
76	1	1441	1	2806	0	4171	1	5536	1	6901	0
77	1	1442	1	2807	1	4172	0	5537	0	6902	0
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79	1	1444	1	2809	0	4174	0	5539	0	6904	1
80	0	1445	0	2810	0	4175	0	5540	1	6905	0
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82	0	1447	0	2812	1	4177	1	5542	1	6907	1
83	0	1448	1	2813	1	4178	1	5543	0	6908	1
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87	1	1452	0	2817	1	4182	1	5547	1	6912	0
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89	1	1454	0	2819	0	4184	0	5549	1	6914	0
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91	1	1456	1	2821	0	4186	0	5551	1	6916	1
92	1	1457	1	2822	1	4187	1	5552	0	6917	0
93	1	1458	1	2823	0	4188	0	5553	1	6918	0
94	1	1459	1	2824	0	4189	0	5554	0	6919	1
95	1	1460	1	2825	0	4190	0	5555	0	6920	1
96	0	1461	1	2826	0	4191	0	5556	1	6921	0
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98	1	1463	0	2828	1	4193	0	5558	0	6923	0
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101	0	1466	0	2831	0	4196	0	5561	1	6926	1
102	0	1467	0	2832	1	4197	0	5562	0	6927	0
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125	1	1490	1	2855	0	4220	0	5585	0	6950	0
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136	1	1501	0	2866	1	4231	0	5596	1	6961	1
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140	0	1505	1	2870	0	4235	0	5600	0	6965	0
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142	0	1507	0	2872	1	4237	0	5602	0	6967	0
143	0	1508	1	2873	0	4238	0	5603	1	6968	1
144	0	1509	0	2874	0	4239	0	5604	1	6969	0
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170	1	1535	1	2900	0	4265	1	5630	1	6995	0
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172	0	1537	0	2902	0	4267	0	5632	0	6997	0
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175	1	1540	0	2905	0	4270	0	5635	0	7000	1
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177	0	1542	0	2907	0	4272	0	5637	1	7002	1
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179	1	1544	0	2909	0	4274	1	5639	1	7004	1
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181	1	1546	0	2911	0	4276	1	5641	0	7006	1
182	1	1547	1	2912	1	4277	0	5642	0	7007	1
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185	1	1550	1	2915	1	4280	0	5645	0	7010	1
186	1	1551	0	2916	0	4281	0	5646	0	7011	1
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191	1	1556	0	2921	1	4286	1	5651	0	7016	0
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210	0	1575	1	2940	1	4305	0	5670	0	7035	1
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212	1	1577	0	2942	0	4307	1	5672	1	7037	0
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214	0	1579	0	2944	0	4309	1	5674	0	7039	1
215	1	1580	1	2945	0	4310	0	5675	0	7040	0
216	0	1581	0	2946	1	4311	1	5676	0	7041	1
217	0	1582	1	2947	0	4312	1	5677	0	7042	0
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219	1	1584	0	2949	0	4314	1	5679	0	7044	0
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222	1	1587	0	2952	1	4317	0	5682	0	7047	1
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225	0	1590	0	2955	1	4320	1	5685	1	7050	1
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242	0	1607	1	2972	1	4337	1	5702	0	7067	1
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245	1	1610	0	2975	1	4340	0	5705	1	7070	1
246	1	1611	1	2976	0	4341	0	5706	1	7071	1
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256	1	1621	1	2986	0	4351	0	5716	0	7081	0
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295	1	1660	1	3025	1	4390	1	5755	1	7120	1
296	1	1661	1	3026	0	4391	1	5756	1	7121	0
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337	1	1702	1	3067	1	4432	1	5797	0	7162	1
338	1	1703	0	3068	0	4433	0	5798	0	7163	1
339	1	1704	1	3069	1	4434	0	5799	0	7164	1
340	1	1705	1	3070	1	4435	1	5800	1	7165	1
341	1	1706	1	3071	1	4436	1	5801	1	7166	0
342	0	1707	1	3072	1	4437	0	5802	1	7167	0
343	0	1708	1	3073	1	4438	1	5803	0	7168	1
344	1	1709	0	3074	1	4439	0	5804	0	7169	1
345	0	1710	1	3075	0	4440	1	5805	0	7170	1
346	0	1711	0	3076	1	4441	1	5806	0	7171	1
347	1	1712	1	3077	0	4442	0	5807	1	7172	1
348	0	1713	0	3078	0	4443	1	5808	0	7173	0
349	0	1714	0	3079	1	4444	1	5809	1	7174	1
350	1	1715	0	3080	1	4445	0	5810	0	7175	0
351	1	1716	0	3081	1	4446	0	5811	1	7176	1
352	1	1717	0	3082	1	4447	0	5812	0	7177	0
353	1	1718	0	3083	0	4448	1	5813	0	7178	0
354	1	1719	0	3084	1	4449	0	5814	1	7179	1
355	0	1720	1	3085	1	4450	0	5815	0	7180	0
356	0	1721	1	3086	0	4451	1	5816	0	7181	0
357	0	1722	0	3087	0	4452	1	5817	0	7182	1
358	1	1723	1	3088	1	4453	1	5818	1	7183	0
359	1	1724	0	3089	1	4454	0	5819	0	7184	1
360	1	1725	1	3090	0	4455	1	5820	0	7185	1
361	1	1726	0	3091	1	4456	1	5821	1	7186	1
362	1	1727	1	3092	1	4457	0	5822	0	7187	1
363	1	1728	1	3093	0	4458	1	5823	1	7188	1
364	0	1729	0	3094	0	4459	1	5824	1	7189	0
365	1	1730	1	3095	0	4460	1	5825	1	7190	0
366	1	1731	1	3096	1	4461	0	5826	0	7191	1
367	1	1732	1	3097	0	4462	0	5827	1	7192	1
368	0	1733	1	3098	0	4463	1	5828	0	7193	1
369	1	1734	0	3099	0	4464	1	5829	0	7194	0
370	0	1735	1	3100	1	4465	0	5830	0	7195	1
371	1	1736	0	3101	0	4466	0	5831	1	7196	0
372	0	1737	0	3102	0	4467	0	5832	1	7197	0
373	1	1738	1	3103	1	4468	1	5833	0	7198	0
374	1	1739	0	3104	1	4469	1	5834	1	7199	1
375	1	1740	1	3105	0	4470	0	5835	1	7200	1

376	1	1741	1	3106	0	4471	1	5836	0	7201	0
377	0	1742	1	3107	0	4472	0	5837	1	7202	0
378	1	1743	1	3108	0	4473	1	5838	0	7203	0
379	1	1744	1	3109	0	4474	0	5839	0	7204	0
380	1	1745	0	3110	0	4475	0	5840	0	7205	1
381	0	1746	0	3111	0	4476	0	5841	1	7206	1
382	1	1747	0	3112	1	4477	0	5842	0	7207	0
383	1	1748	1	3113	1	4478	0	5843	1	7208	1
384	1	1749	0	3114	1	4479	0	5844	1	7209	0
385	0	1750	1	3115	1	4480	1	5845	1	7210	1
386	1	1751	0	3116	1	4481	0	5846	1	7211	1
387	0	1752	1	3117	0	4482	1	5847	0	7212	0
388	0	1753	0	3118	0	4483	1	5848	0	7213	0
389	1	1754	0	3119	1	4484	0	5849	0	7214	1
390	1	1755	0	3120	1	4485	1	5850	1	7215	0
391	0	1756	0	3121	0	4486	1	5851	0	7216	0
392	0	1757	0	3122	0	4487	1	5852	0	7217	0
393	1	1758	1	3123	1	4488	0	5853	0	7218	0
394	0	1759	1	3124	1	4489	0	5854	1	7219	1
395	1	1760	1	3125	1	4490	1	5855	1	7220	1
396	0	1761	0	3126	1	4491	0	5856	1	7221	0
397	0	1762	1	3127	1	4492	0	5857	1	7222	1
398	1	1763	0	3128	1	4493	1	5858	1	7223	0
399	0	1764	1	3129	1	4494	1	5859	1	7224	1
400	1	1765	0	3130	1	4495	1	5860	0	7225	1
401	1	1766	1	3131	1	4496	0	5861	1	7226	1
402	1	1767	1	3132	1	4497	0	5862	1	7227	1
403	0	1768	1	3133	0	4498	0	5863	0	7228	0
404	0	1769	0	3134	1	4499	0	5864	0	7229	1
405	0	1770	1	3135	0	4500	0	5865	1	7230	1
406	0	1771	0	3136	1	4501	0	5866	0	7231	1
407	0	1772	0	3137	0	4502	1	5867	0	7232	0
408	0	1773	0	3138	0	4503	0	5868	1	7233	1
409	1	1774	1	3139	0	4504	0	5869	1	7234	0
410	1	1775	1	3140	0	4505	0	5870	0	7235	1
411	0	1776	1	3141	1	4506	1	5871	0	7236	1
412	0	1777	1	3142	1	4507	0	5872	1	7237	0
413	0	1778	0	3143	1	4508	1	5873	1	7238	0
414	0	1779	0	3144	1	4509	0	5874	1	7239	0
415	1	1780	1	3145	1	4510	0	5875	0	7240	0
416	0	1781	1	3146	1	4511	1	5876	1	7241	1
417	1	1782	0	3147	0	4512	0	5877	1	7242	0
418	1	1783	1	3148	1	4513	0	5878	1	7243	0
419	0	1784	0	3149	0	4514	0	5879	1	7244	1

420	0	1785	0	3150	1	4515	1	5880	0	7245	0
421	1	1786	0	3151	1	4516	0	5881	0	7246	1
422	0	1787	1	3152	1	4517	1	5882	0	7247	0
423	0	1788	1	3153	0	4518	0	5883	1	7248	0
424	1	1789	0	3154	1	4519	1	5884	1	7249	0
425	1	1790	0	3155	1	4520	1	5885	1	7250	1
426	0	1791	0	3156	0	4521	0	5886	0	7251	0
427	1	1792	0	3157	0	4522	1	5887	1	7252	0
428	0	1793	1	3158	0	4523	1	5888	1	7253	0
429	1	1794	1	3159	0	4524	1	5889	0	7254	1
430	1	1795	0	3160	0	4525	1	5890	1	7255	1
431	0	1796	0	3161	0	4526	1	5891	0	7256	0
432	0	1797	0	3162	0	4527	0	5892	0	7257	0
433	0	1798	0	3163	0	4528	0	5893	0	7258	0
434	0	1799	1	3164	0	4529	0	5894	1	7259	0
435	1	1800	1	3165	0	4530	1	5895	1	7260	1
436	0	1801	1	3166	0	4531	1	5896	0	7261	1
437	0	1802	0	3167	0	4532	0	5897	1	7262	1
438	1	1803	1	3168	1	4533	0	5898	0	7263	0
439	0	1804	0	3169	0	4534	1	5899	0	7264	0
440	1	1805	0	3170	1	4535	0	5900	0	7265	0
441	0	1806	0	3171	1	4536	0	5901	0	7266	1
442	1	1807	0	3172	0	4537	0	5902	1	7267	0
443	1	1808	1	3173	1	4538	1	5903	1	7268	0
444	1	1809	0	3174	1	4539	1	5904	0	7269	0
445	1	1810	0	3175	0	4540	0	5905	0	7270	1
446	0	1811	0	3176	0	4541	0	5906	0	7271	0
447	1	1812	1	3177	1	4542	1	5907	1	7272	0
448	0	1813	0	3178	0	4543	0	5908	1	7273	1
449	1	1814	1	3179	1	4544	0	5909	1	7274	0
450	0	1815	1	3180	0	4545	1	5910	1	7275	0
451	0	1816	1	3181	1	4546	0	5911	1	7276	0
452	1	1817	1	3182	0	4547	0	5912	1	7277	0
453	0	1818	0	3183	1	4548	0	5913	0	7278	1
454	1	1819	1	3184	1	4549	0	5914	1	7279	1
455	1	1820	1	3185	0	4550	1	5915	0	7280	1
456	1	1821	1	3186	1	4551	0	5916	1	7281	1
457	1	1822	0	3187	0	4552	0	5917	0	7282	0
458	0	1823	0	3188	0	4553	0	5918	0	7283	0
459	0	1824	1	3189	0	4554	0	5919	1	7284	0
460	1	1825	1	3190	0	4555	1	5920	1	7285	1
461	1	1826	0	3191	1	4556	0	5921	0	7286	0
462	1	1827	0	3192	1	4557	0	5922	0	7287	1
463	1	1828	1	3193	0	4558	1	5923	0	7288	0

464	0	1829	1	3194	1	4559	1	5924	0	7289	0
465	1	1830	1	3195	1	4560	0	5925	1	7290	0
466	0	1831	1	3196	0	4561	1	5926	1	7291	0
467	1	1832	0	3197	0	4562	1	5927	1	7292	1
468	0	1833	0	3198	1	4563	0	5928	1	7293	0
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470	1	1835	1	3200	0	4565	1	5930	1	7295	1
471	0	1836	1	3201	1	4566	0	5931	1	7296	0
472	1	1837	1	3202	0	4567	0	5932	0	7297	0
473	0	1838	0	3203	0	4568	1	5933	1	7298	0
474	1	1839	1	3204	0	4569	1	5934	0	7299	0
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476	1	1841	0	3206	1	4571	0	5936	1	7301	0
477	0	1842	1	3207	1	4572	1	5937	1	7302	1
478	1	1843	1	3208	1	4573	1	5938	0	7303	0
479	0	1844	1	3209	1	4574	1	5939	1	7304	1
480	1	1845	0	3210	1	4575	0	5940	0	7305	0
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482	1	1847	0	3212	1	4577	1	5942	0	7307	1
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487	0	1852	1	3217	0	4582	1	5947	1	7312	1
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491	1	1856	1	3221	0	4586	0	5951	0	7316	0
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494	1	1859	0	3224	1	4589	1	5954	1	7319	1
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497	1	1862	1	3227	0	4592	0	5957	0	7322	1
498	1	1863	1	3228	1	4593	1	5958	1	7323	0
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501	0	1866	1	3231	0	4596	1	5961	0	7326	1
502	0	1867	0	3232	0	4597	0	5962	0	7327	0
503	0	1868	0	3233	0	4598	0	5963	1	7328	1
504	0	1869	1	3234	1	4599	1	5964	1	7329	1
505	0	1870	0	3235	1	4600	0	5965	1	7330	1
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507	0	1872	0	3237	0	4602	0	5967	1	7332	0

508	0	1873	0	3238	0	4603	0	5968	1	7333	0
509	1	1874	0	3239	0	4604	0	5969	0	7334	0
510	0	1875	1	3240	1	4605	1	5970	0	7335	1
511	0	1876	0	3241	1	4606	1	5971	0	7336	0
512	0	1877	1	3242	0	4607	0	5972	1	7337	1
513	1	1878	0	3243	0	4608	1	5973	1	7338	1
514	0	1879	0	3244	1	4609	1	5974	0	7339	0
515	1	1880	0	3245	0	4610	1	5975	1	7340	0
516	0	1881	1	3246	1	4611	0	5976	1	7341	0
517	0	1882	0	3247	1	4612	1	5977	0	7342	1
518	1	1883	0	3248	1	4613	0	5978	0	7343	0
519	0	1884	1	3249	0	4614	1	5979	1	7344	1
520	1	1885	1	3250	0	4615	0	5980	0	7345	1
521	0	1886	1	3251	0	4616	1	5981	0	7346	1
522	1	1887	1	3252	1	4617	1	5982	0	7347	0
523	0	1888	0	3253	0	4618	0	5983	1	7348	0
524	0	1889	0	3254	1	4619	0	5984	0	7349	0
525	1	1890	0	3255	1	4620	0	5985	1	7350	1
526	1	1891	0	3256	1	4621	1	5986	1	7351	1
527	0	1892	0	3257	0	4622	1	5987	1	7352	0
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529	1	1894	0	3259	0	4624	0	5989	0	7354	0
530	0	1895	0	3260	1	4625	0	5990	1	7355	1
531	0	1896	0	3261	1	4626	1	5991	1	7356	1
532	1	1897	0	3262	0	4627	1	5992	1	7357	1
533	1	1898	1	3263	1	4628	0	5993	0	7358	0
534	0	1899	0	3264	0	4629	1	5994	1	7359	0
535	1	1900	0	3265	0	4630	0	5995	1	7360	1
536	0	1901	1	3266	0	4631	0	5996	1	7361	0
537	1	1902	1	3267	1	4632	1	5997	1	7362	1
538	1	1903	0	3268	0	4633	0	5998	1	7363	1
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540	1	1905	0	3270	1	4635	0	6000	1	7365	0
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542	0	1907	0	3272	1	4637	1	6002	1	7367	0
543	1	1908	1	3273	0	4638	1	6003	0	7368	0
544	0	1909	1	3274	0	4639	1	6004	1	7369	0
545	1	1910	1	3275	1	4640	0	6005	0	7370	1
546	1	1911	0	3276	0	4641	0	6006	0	7371	1
547	1	1912	1	3277	0	4642	1	6007	0	7372	1
548	0	1913	0	3278	0	4643	1	6008	0	7373	0
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550	0	1915	0	3280	1	4645	0	6010	0	7375	1
551	0	1916	1	3281	1	4646	0	6011	0	7376	0

552	1	1917	0	3282	1	4647	1	6012	0	7377	1
553	0	1918	0	3283	1	4648	1	6013	1	7378	1
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555	0	1920	0	3285	1	4650	1	6015	0	7380	1
556	0	1921	1	3286	0	4651	1	6016	1	7381	1
557	1	1922	0	3287	1	4652	0	6017	0	7382	1
558	0	1923	1	3288	1	4653	1	6018	0	7383	0
559	1	1924	1	3289	0	4654	0	6019	1	7384	1
560	0	1925	0	3290	1	4655	0	6020	0	7385	0
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562	0	1927	1	3292	0	4657	1	6022	0	7387	0
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565	0	1930	1	3295	0	4660	1	6025	0	7390	0
566	0	1931	0	3296	1	4661	1	6026	1	7391	1
567	1	1932	0	3297	1	4662	0	6027	0	7392	0
568	0	1933	0	3298	0	4663	0	6028	0	7393	0
569	0	1934	0	3299	1	4664	1	6029	1	7394	1
570	0	1935	1	3300	0	4665	1	6030	1	7395	0
571	0	1936	0	3301	0	4666	0	6031	0	7396	0
572	0	1937	1	3302	1	4667	1	6032	0	7397	0
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574	1	1939	1	3304	1	4669	1	6034	0	7399	0
575	0	1940	0	3305	0	4670	0	6035	0	7400	0
576	0	1941	1	3306	1	4671	0	6036	0	7401	1
577	0	1942	0	3307	1	4672	0	6037	0	7402	0
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579	0	1944	0	3309	0	4674	1	6039	0	7404	0
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581	1	1946	1	3311	0	4676	1	6041	1	7406	0
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584	0	1949	0	3314	0	4679	0	6044	1	7409	1
585	1	1950	1	3315	1	4680	1	6045	0	7410	0
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587	1	1952	1	3317	0	4682	1	6047	1	7412	0
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589	0	1954	1	3319	0	4684	1	6049	1	7414	1
590	1	1955	0	3320	1	4685	1	6050	0	7415	1
591	0	1956	1	3321	1	4686	1	6051	1	7416	0
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593	1	1958	0	3323	0	4688	1	6053	0	7418	1
594	0	1959	1	3324	0	4689	0	6054	1	7419	1
595	0	1960	0	3325	0	4690	1	6055	0	7420	0

596	1	1961	1	3326	0	4691	0	6056	1	7421	0
597	0	1962	1	3327	1	4692	0	6057	0	7422	1
598	0	1963	1	3328	1	4693	1	6058	0	7423	0
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600	0	1965	0	3330	1	4695	0	6060	0	7425	1
601	1	1966	1	3331	0	4696	0	6061	1	7426	0
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603	0	1968	1	3333	0	4698	1	6063	0	7428	0
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606	0	1971	1	3336	1	4701	1	6066	0	7431	0
607	1	1972	1	3337	0	4702	0	6067	0	7432	0
608	1	1973	1	3338	0	4703	1	6068	1	7433	0
609	1	1974	0	3339	1	4704	1	6069	1	7434	1
610	1	1975	1	3340	0	4705	1	6070	1	7435	1
611	0	1976	0	3341	1	4706	1	6071	1	7436	1
612	0	1977	0	3342	0	4707	1	6072	0	7437	1
613	1	1978	0	3343	1	4708	1	6073	1	7438	0
614	1	1979	0	3344	1	4709	1	6074	0	7439	0
615	1	1980	1	3345	1	4710	0	6075	0	7440	1
616	1	1981	1	3346	1	4711	1	6076	0	7441	1
617	1	1982	0	3347	0	4712	1	6077	0	7442	0
618	0	1983	0	3348	1	4713	1	6078	1	7443	0
619	1	1984	0	3349	0	4714	1	6079	1	7444	1
620	0	1985	1	3350	1	4715	0	6080	1	7445	0
621	0	1986	1	3351	0	4716	1	6081	1	7446	0
622	0	1987	1	3352	1	4717	0	6082	1	7447	0
623	0	1988	1	3353	0	4718	0	6083	0	7448	0
624	1	1989	1	3354	0	4719	0	6084	0	7449	1
625	1	1990	0	3355	1	4720	1	6085	0	7450	1
626	0	1991	0	3356	0	4721	1	6086	0	7451	1
627	0	1992	0	3357	0	4722	1	6087	0	7452	0
628	1	1993	0	3358	0	4723	1	6088	0	7453	0
629	0	1994	1	3359	0	4724	1	6089	0	7454	1
630	0	1995	1	3360	0	4725	0	6090	1	7455	1
631	1	1996	1	3361	1	4726	1	6091	1	7456	0
632	1	1997	0	3362	0	4727	0	6092	0	7457	1
633	1	1998	1	3363	1	4728	1	6093	0	7458	1
634	1	1999	0	3364	0	4729	0	6094	1	7459	1
635	1	2000	1	3365	1	4730	1	6095	0	7460	0
636	1	2001	0	3366	0	4731	0	6096	0	7461	0
637	1	2002	1	3367	0	4732	1	6097	0	7462	0
638	0	2003	0	3368	1	4733	0	6098	1	7463	1
639	0	2004	1	3369	0	4734	0	6099	0	7464	0

640	0	2005	1	3370	1	4735	0	6100	0	7465	0
641	1	2006	1	3371	1	4736	1	6101	1	7466	1
642	0	2007	0	3372	1	4737	1	6102	1	7467	0
643	1	2008	0	3373	1	4738	1	6103	1	7468	0
644	1	2009	1	3374	1	4739	0	6104	1	7469	0
645	0	2010	1	3375	0	4740	1	6105	0	7470	0
646	0	2011	1	3376	1	4741	0	6106	1	7471	1
647	0	2012	1	3377	1	4742	0	6107	1	7472	1
648	1	2013	1	3378	1	4743	0	6108	1	7473	1
649	1	2014	1	3379	1	4744	1	6109	1	7474	1
650	1	2015	0	3380	0	4745	1	6110	1	7475	0
651	0	2016	0	3381	0	4746	0	6111	1	7476	1
652	1	2017	0	3382	0	4747	0	6112	0	7477	1
653	0	2018	0	3383	1	4748	0	6113	1	7478	0
654	1	2019	1	3384	0	4749	0	6114	1	7479	0
655	0	2020	1	3385	1	4750	0	6115	1	7480	1
656	1	2021	1	3386	1	4751	0	6116	0	7481	0
657	1	2022	0	3387	0	4752	0	6117	0	7482	0
658	0	2023	0	3388	0	4753	1	6118	1	7483	1
659	1	2024	1	3389	1	4754	1	6119	1	7484	0
660	0	2025	0	3390	1	4755	0	6120	0	7485	1
661	0	2026	1	3391	0	4756	1	6121	1	7486	0
662	0	2027	0	3392	0	4757	0	6122	1	7487	0
663	1	2028	1	3393	1	4758	0	6123	0	7488	1
664	1	2029	0	3394	1	4759	0	6124	1	7489	1
665	0	2030	0	3395	0	4760	0	6125	1	7490	0
666	1	2031	0	3396	0	4761	0	6126	0	7491	0
667	0	2032	1	3397	1	4762	0	6127	0	7492	0
668	1	2033	1	3398	1	4763	0	6128	1	7493	1
669	1	2034	0	3399	0	4764	0	6129	0	7494	1
670	1	2035	1	3400	1	4765	1	6130	0	7495	0
671	0	2036	0	3401	0	4766	0	6131	1	7496	1
672	1	2037	0	3402	1	4767	0	6132	0	7497	1
673	1	2038	1	3403	1	4768	0	6133	1	7498	0
674	1	2039	1	3404	0	4769	1	6134	1	7499	1
675	1	2040	0	3405	1	4770	0	6135	1	7500	0
676	0	2041	0	3406	1	4771	1	6136	1	7501	0
677	1	2042	0	3407	0	4772	0	6137	1	7502	0
678	0	2043	1	3408	0	4773	1	6138	0	7503	0
679	1	2044	0	3409	0	4774	1	6139	1	7504	1
680	1	2045	1	3410	1	4775	0	6140	0	7505	1
681	1	2046	1	3411	0	4776	1	6141	0	7506	1
682	0	2047	0	3412	1	4777	1	6142	1	7507	1
683	1	2048	1	3413	1	4778	1	6143	0	7508	0

684	0	2049	1	3414	1	4779	1	6144	0	7509	0
685	1	2050	0	3415	1	4780	1	6145	0	7510	0
686	1	2051	0	3416	0	4781	0	6146	1	7511	0
687	0	2052	0	3417	0	4782	1	6147	0	7512	0
688	0	2053	1	3418	0	4783	1	6148	1	7513	0
689	1	2054	1	3419	1	4784	1	6149	0	7514	1
690	0	2055	1	3420	1	4785	0	6150	1	7515	1
691	1	2056	0	3421	0	4786	0	6151	0	7516	1
692	1	2057	0	3422	1	4787	0	6152	0	7517	1
693	0	2058	0	3423	0	4788	0	6153	1	7518	1
694	1	2059	1	3424	0	4789	0	6154	0	7519	1
695	1	2060	0	3425	0	4790	0	6155	1	7520	0
696	1	2061	1	3426	1	4791	1	6156	1	7521	0
697	1	2062	0	3427	1	4792	0	6157	1	7522	0
698	1	2063	1	3428	0	4793	0	6158	0	7523	1
699	1	2064	1	3429	0	4794	0	6159	1	7524	1
700	1	2065	0	3430	0	4795	0	6160	0	7525	1
701	0	2066	0	3431	1	4796	1	6161	0	7526	1
702	0	2067	1	3432	1	4797	1	6162	0	7527	0
703	1	2068	0	3433	1	4798	1	6163	0	7528	0
704	0	2069	0	3434	1	4799	0	6164	0	7529	1
705	0	2070	1	3435	1	4800	1	6165	0	7530	1
706	0	2071	0	3436	1	4801	0	6166	0	7531	0
707	0	2072	1	3437	0	4802	0	6167	0	7532	1
708	1	2073	0	3438	0	4803	1	6168	1	7533	1
709	1	2074	1	3439	1	4804	0	6169	0	7534	0
710	1	2075	1	3440	0	4805	1	6170	0	7535	0
711	1	2076	0	3441	0	4806	1	6171	0	7536	1
712	1	2077	0	3442	1	4807	1	6172	1	7537	1
713	1	2078	0	3443	0	4808	0	6173	1	7538	0
714	1	2079	1	3444	1	4809	1	6174	0	7539	0
715	0	2080	1	3445	0	4810	0	6175	0	7540	1
716	1	2081	1	3446	1	4811	0	6176	0	7541	1
717	0	2082	0	3447	1	4812	1	6177	0	7542	1
718	1	2083	1	3448	0	4813	1	6178	0	7543	0
719	0	2084	0	3449	1	4814	1	6179	0	7544	1
720	0	2085	0	3450	0	4815	1	6180	1	7545	1
721	1	2086	1	3451	1	4816	1	6181	1	7546	0
722	1	2087	0	3452	1	4817	0	6182	0	7547	0
723	1	2088	0	3453	1	4818	1	6183	0	7548	0
724	1	2089	0	3454	0	4819	0	6184	1	7549	0
725	1	2090	0	3455	1	4820	0	6185	1	7550	0
726	0	2091	0	3456	0	4821	0	6186	0	7551	1
727	0	2092	1	3457	1	4822	0	6187	0	7552	1

728	0	2093	1	3458	1	4823	1	6188	1	7553	1
729	1	2094	0	3459	0	4824	0	6189	1	7554	0
730	0	2095	0	3460	0	4825	0	6190	1	7555	0
731	0	2096	1	3461	1	4826	0	6191	1	7556	0
732	0	2097	0	3462	0	4827	0	6192	1	7557	1
733	1	2098	1	3463	1	4828	1	6193	1	7558	0
734	1	2099	1	3464	0	4829	1	6194	0	7559	0
735	0	2100	1	3465	0	4830	0	6195	1	7560	0
736	0	2101	1	3466	1	4831	1	6196	1	7561	1
737	1	2102	0	3467	1	4832	0	6197	0	7562	1
738	1	2103	0	3468	1	4833	0	6198	1	7563	1
739	1	2104	0	3469	0	4834	1	6199	0	7564	1
740	1	2105	0	3470	1	4835	0	6200	0	7565	1
741	1	2106	1	3471	1	4836	1	6201	1	7566	1
742	1	2107	0	3472	1	4837	0	6202	1	7567	1
743	1	2108	1	3473	1	4838	0	6203	0	7568	0
744	0	2109	0	3474	1	4839	1	6204	0	7569	0
745	0	2110	0	3475	1	4840	1	6205	1	7570	0
746	1	2111	1	3476	0	4841	1	6206	0	7571	0
747	1	2112	1	3477	0	4842	1	6207	0	7572	0
748	1	2113	0	3478	0	4843	1	6208	1	7573	1
749	1	2114	1	3479	0	4844	0	6209	1	7574	0
750	0	2115	1	3480	0	4845	1	6210	1	7575	0
751	1	2116	0	3481	0	4846	1	6211	1	7576	1
752	0	2117	1	3482	1	4847	1	6212	0	7577	1
753	0	2118	0	3483	1	4848	1	6213	1	7578	0
754	0	2119	1	3484	1	4849	0	6214	0	7579	0
755	1	2120	1	3485	1	4850	0	6215	1	7580	0
756	1	2121	1	3486	1	4851	0	6216	0	7581	0
757	1	2122	0	3487	1	4852	0	6217	1	7582	0
758	1	2123	0	3488	0	4853	1	6218	0	7583	0
759	1	2124	0	3489	0	4854	0	6219	0	7584	1
760	0	2125	1	3490	0	4855	1	6220	1	7585	1
761	0	2126	1	3491	0	4856	1	6221	1	7586	0
762	1	2127	0	3492	0	4857	0	6222	0	7587	1
763	1	2128	0	3493	0	4858	0	6223	0	7588	0
764	1	2129	1	3494	0	4859	1	6224	1	7589	1
765	0	2130	0	3495	1	4860	1	6225	1	7590	0
766	0	2131	1	3496	1	4861	1	6226	0	7591	0
767	0	2132	0	3497	1	4862	1	6227	1	7592	0
768	1	2133	0	3498	0	4863	0	6228	1	7593	0
769	1	2134	1	3499	1	4864	0	6229	0	7594	0
770	0	2135	1	3500	0	4865	0	6230	1	7595	0
771	1	2136	1	3501	0	4866	1	6231	1	7596	0

772	0	2137	1	3502	0	4867	1	6232	1	7597	0
773	0	2138	1	3503	0	4868	0	6233	0	7598	1
774	1	2139	0	3504	1	4869	0	6234	1	7599	0
775	0	2140	0	3505	0	4870	0	6235	0	7600	0
776	1	2141	0	3506	1	4871	1	6236	1	7601	0
777	0	2142	0	3507	1	4872	1	6237	1	7602	0
778	0	2143	0	3508	1	4873	1	6238	0	7603	0
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780	1	2145	1	3510	1	4875	1	6240	1	7605	1
781	0	2146	0	3511	1	4876	0	6241	1	7606	1
782	1	2147	0	3512	0	4877	0	6242	1	7607	1
783	0	2148	1	3513	0	4878	1	6243	1	7608	1
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785	1	2150	0	3515	0	4880	1	6245	1	7610	0
786	0	2151	0	3516	0	4881	1	6246	1	7611	0
787	0	2152	0	3517	0	4882	1	6247	1	7612	0
788	1	2153	1	3518	0	4883	0	6248	1	7613	0
789	1	2154	1	3519	0	4884	0	6249	1	7614	0
790	0	2155	0	3520	1	4885	0	6250	1	7615	1
791	0	2156	1	3521	1	4886	0	6251	1	7616	1
792	1	2157	0	3522	1	4887	1	6252	1	7617	0
793	1	2158	0	3523	0	4888	0	6253	0	7618	0
794	0	2159	0	3524	0	4889	1	6254	1	7619	1
795	0	2160	1	3525	1	4890	0	6255	0	7620	1
796	0	2161	1	3526	0	4891	0	6256	0	7621	1
797	0	2162	0	3527	1	4892	1	6257	0	7622	1
798	0	2163	0	3528	0	4893	1	6258	0	7623	1
799	1	2164	1	3529	1	4894	1	6259	0	7624	0
800	0	2165	0	3530	1	4895	0	6260	0	7625	0
801	0	2166	1	3531	0	4896	1	6261	1	7626	1
802	0	2167	0	3532	1	4897	1	6262	1	7627	0
803	0	2168	1	3533	1	4898	0	6263	1	7628	0
804	0	2169	0	3534	1	4899	1	6264	0	7629	0
805	1	2170	0	3535	0	4900	1	6265	0	7630	1
806	1	2171	1	3536	1	4901	0	6266	1	7631	0
807	1	2172	1	3537	0	4902	1	6267	1	7632	0
808	1	2173	0	3538	0	4903	1	6268	1	7633	0
809	0	2174	1	3539	1	4904	0	6269	0	7634	0
810	0	2175	0	3540	0	4905	0	6270	0	7635	1
811	0	2176	0	3541	1	4906	1	6271	0	7636	1
812	0	2177	0	3542	1	4907	0	6272	0	7637	0
813	0	2178	1	3543	1	4908	1	6273	1	7638	0
814	0	2179	1	3544	0	4909	0	6274	0	7639	0
815	1	2180	1	3545	1	4910	1	6275	1	7640	1

816	0	2181	0	3546	1	4911	0	6276	0	7641	0
817	0	2182	0	3547	1	4912	0	6277	0	7642	1
818	0	2183	0	3548	1	4913	1	6278	1	7643	1
819	0	2184	1	3549	1	4914	0	6279	0	7644	1
820	1	2185	1	3550	0	4915	0	6280	1	7645	1
821	1	2186	0	3551	1	4916	1	6281	1	7646	1
822	1	2187	1	3552	0	4917	1	6282	1	7647	1
823	1	2188	0	3553	0	4918	1	6283	0	7648	1
824	1	2189	0	3554	0	4919	1	6284	1	7649	1
825	0	2190	0	3555	0	4920	0	6285	0	7650	1
826	1	2191	0	3556	1	4921	0	6286	0	7651	1
827	0	2192	1	3557	1	4922	1	6287	0	7652	0
828	1	2193	1	3558	1	4923	1	6288	0	7653	0
829	1	2194	1	3559	1	4924	1	6289	0	7654	1
830	0	2195	1	3560	0	4925	0	6290	0	7655	0
831	0	2196	1	3561	0	4926	0	6291	1	7656	0
832	1	2197	0	3562	0	4927	1	6292	0	7657	1
833	0	2198	1	3563	1	4928	0	6293	1	7658	1
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835	1	2200	0	3565	0	4930	1	6295	1	7660	1
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837	1	2202	1	3567	1	4932	1	6297	0	7662	1
838	0	2203	1	3568	1	4933	0	6298	1	7663	1
839	0	2204	1	3569	1	4934	0	6299	0	7664	1
840	1	2205	0	3570	1	4935	1	6300	0	7665	1
841	1	2206	1	3571	0	4936	0	6301	1	7666	0
842	1	2207	1	3572	0	4937	1	6302	0	7667	0
843	1	2208	0	3573	0	4938	1	6303	1	7668	1
844	1	2209	1	3574	0	4939	1	6304	1	7669	1
845	0	2210	0	3575	0	4940	1	6305	1	7670	0
846	1	2211	1	3576	1	4941	1	6306	0	7671	1
847	1	2212	0	3577	1	4942	1	6307	1	7672	1
848	0	2213	1	3578	1	4943	1	6308	1	7673	1
849	1	2214	1	3579	1	4944	1	6309	0	7674	1
850	0	2215	1	3580	0	4945	0	6310	1	7675	1
851	0	2216	1	3581	1	4946	1	6311	1	7676	0
852	0	2217	1	3582	1	4947	0	6312	1	7677	0
853	1	2218	1	3583	0	4948	1	6313	1	7678	1
854	1	2219	1	3584	0	4949	1	6314	1	7679	0
855	1	2220	0	3585	0	4950	1	6315	0	7680	0
856	0	2221	1	3586	0	4951	0	6316	1	7681	1
857	0	2222	1	3587	1	4952	0	6317	0	7682	0
858	0	2223	0	3588	0	4953	0	6318	1	7683	0
859	1	2224	1	3589	0	4954	1	6319	0	7684	1

860	1	2225	1	3590	1	4955	1	6320	0	7685	0
861	1	2226	1	3591	1	4956	0	6321	1	7686	0
862	0	2227	0	3592	0	4957	0	6322	0	7687	1
863	0	2228	1	3593	1	4958	1	6323	0	7688	0
864	1	2229	0	3594	0	4959	0	6324	0	7689	0
865	1	2230	0	3595	0	4960	1	6325	1	7690	0
866	0	2231	0	3596	0	4961	0	6326	0	7691	0
867	0	2232	0	3597	1	4962	1	6327	0	7692	0
868	1	2233	0	3598	1	4963	1	6328	1	7693	0
869	0	2234	1	3599	0	4964	0	6329	0	7694	0
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871	1	2236	1	3601	0	4966	0	6331	0	7696	1
872	1	2237	1	3602	0	4967	0	6332	1	7697	0
873	1	2238	1	3603	1	4968	1	6333	1	7698	1
874	0	2239	1	3604	1	4969	1	6334	1	7699	1
875	0	2240	1	3605	1	4970	0	6335	1	7700	1
876	1	2241	0	3606	0	4971	0	6336	1	7701	0
877	1	2242	0	3607	0	4972	0	6337	0	7702	1
878	1	2243	1	3608	0	4973	0	6338	1	7703	0
879	0	2244	1	3609	0	4974	1	6339	1	7704	0
880	1	2245	0	3610	0	4975	0	6340	1	7705	1
881	1	2246	0	3611	0	4976	0	6341	1	7706	0
882	0	2247	0	3612	1	4977	0	6342	0	7707	1
883	0	2248	0	3613	1	4978	1	6343	1	7708	1
884	0	2249	0	3614	1	4979	0	6344	1	7709	0
885	0	2250	0	3615	0	4980	0	6345	0	7710	1
886	1	2251	1	3616	1	4981	0	6346	1	7711	1
887	1	2252	0	3617	1	4982	0	6347	0	7712	1
888	0	2253	1	3618	0	4983	0	6348	0	7713	0
889	1	2254	0	3619	0	4984	0	6349	0	7714	1
890	1	2255	0	3620	0	4985	1	6350	1	7715	1
891	1	2256	1	3621	1	4986	0	6351	1	7716	1
892	1	2257	0	3622	1	4987	1	6352	1	7717	1
893	1	2258	0	3623	1	4988	1	6353	1	7718	0
894	1	2259	1	3624	0	4989	1	6354	0	7719	0
895	1	2260	0	3625	0	4990	0	6355	0	7720	0
896	1	2261	1	3626	0	4991	0	6356	0	7721	1
897	0	2262	0	3627	0	4992	0	6357	1	7722	1
898	0	2263	0	3628	0	4993	1	6358	1	7723	0
899	0	2264	1	3629	0	4994	1	6359	0	7724	1
900	0	2265	1	3630	0	4995	0	6360	1	7725	1
901	1	2266	0	3631	1	4996	1	6361	1	7726	0
902	1	2267	0	3632	1	4997	1	6362	0	7727	0
903	1	2268	0	3633	0	4998	1	6363	0	7728	0

904	1	2269	1	3634	0	4999	1	6364	0	7729	0
905	0	2270	0	3635	1	5000	1	6365	1	7730	1
906	1	2271	0	3636	1	5001	1	6366	0	7731	0
907	1	2272	0	3637	0	5002	1	6367	0	7732	1
908	1	2273	0	3638	1	5003	1	6368	0	7733	0
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910	0	2275	1	3640	0	5005	0	6370	1	7735	1
911	1	2276	0	3641	0	5006	1	6371	0	7736	0
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914	0	2279	1	3644	0	5009	0	6374	1	7739	1
915	1	2280	1	3645	0	5010	0	6375	1	7740	0
916	1	2281	0	3646	0	5011	0	6376	1	7741	0
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921	1	2286	1	3651	1	5016	1	6381	0	7746	0
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924	0	2289	0	3654	0	5019	1	6384	0	7749	0
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UNIVERSITÉ DE STRASBOURG, CNRS, IRMA UMR 7501, F-67000 STRASBOURG, FRANCE
Email address: guoniu.han@unistra.fr

SCHOOL OF MATHEMATICS AND STATISTICS, HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, WUHAN, PR CHINA
Email address: huyining@hust.edu.cn