

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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ABSTRACT. The continued fraction conjecture claims that the continued fraction defined by the (a, b) -Thue-Morse sequence is algebraic over $\mathbb{F}_2(x)$ for all pairs of distinct elements (a, b) in $\mathbb{F}_2[x] \setminus \mathbb{F}_2$. In this paper we prove the conjecture for $(a, b) = (z, z^5 + z^3 + z^2 + z + 1)$.

1. INTRODUCTION

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

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

as the limit of the finite continued fractions

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

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

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

admits a continued fraction expansion of form (1.1).

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

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

that we shall denote

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

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

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

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

$$\begin{aligned} p_0(z) &= z^{20} + z^{18} + z^{15} + z^{14} + z^{10} + z^9 + z^8 + z^6 + z^5 + z + 1, \\ p_1(z) &= z^{23} + z^{21} + z^{19} + z^{16} + z^{10} + z^9 + z^6 + z^3 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{16} + z^{12} + z^2, \\ p_3(z) &= z^{23} + z^{21} + z^{19} + z^{16} + z^{10} + z^9 + z^6 + z^3 + z^2 + z, \\ p_4(z) &= z^{22} + z^{18} + z^{15} + z^{14} + z^{12} + z^{10} + z^9 + z^8 + z^6 + z^5 + z^4 + z^2 + z, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{18} + z^{15} + z^{14} + z^{12} + z^{10} + z^9 + z^6 + z^5 + z, \\ p_1(z) &= z^{23} + z^{21} + z^{19} + z^{16} + z^{10} + z^9 + z^6 + z^3 + z^2 + z, \\ p_2(z) &= z^{24} + z^{22} + z^{16} + z^{12} + z^2, \\ p_3(z) &= z^{23} + z^{21} + z^{19} + z^{16} + z^{10} + z^9 + z^6 + z^3 + z^2 + z, \\ p_4(z) &= z^{22} + z^{20} + z^{18} + z^{15} + z^{14} + z^{10} + z^9 + z^6 + z^5 + z^4 + z^2 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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 $u = 2^{2k}$,

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

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

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

which can be rewritten as

$$(2.7) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[110w]_2],$$

$$(2.8) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[111w]_2],$$

$$(2.9) \quad 0 = T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2],$$

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

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

$$(2.12) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[110w]_2],$$

$$(2.14) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[111w]_2],$$

$$(2.15) \quad 0 = T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2],$$

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

$$(2.17) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1011w]_2],$$

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

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

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

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

$$(2.19) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 110)),$$

$$(2.20) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 111)),$$

$$(2.21) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 1010)),$$

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

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

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

$$(2.25) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 110)),$$

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

$$(2.27) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.28) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 101)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 1010)),$$

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

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

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{50}), E_{50}) = (A(i, 0^{22}), E_{22})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 25$, which turns out to be true. $\square$

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

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

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

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

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

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

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

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

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

We give the proof of

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

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

$$(2.31) \quad \begin{aligned} W_{2k}M_{2k} &= (W^e[:6v] + x^{3v}W^e[:3v] + x^{4v}W^e[:2v] + x^{6v}R^e) \times (M^e[:6v] \\ &\quad + x^{3v}M^e[:3v] + x^{4v}M^e[:2v] + x^{6v}R^e); \end{aligned}$$

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

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

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

$$\begin{aligned} q_0(x) &= x^{24} + x^{23} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{10} + x^9 + x^6 + x^4, \\ q_1(x) &= x^{23} + x^{22} + x^{21} + x^{18} + x^{15} + x^{14} + x^8 + x^5 + x^3 + x, \\ q_2(x) &= x^{22} + x^{12} + x^8 + x^2 + 1, \\ q_3(x) &= x^{23} + x^{22} + x^{21} + x^{18} + x^{15} + x^{14} + x^8 + x^5 + x^3 + x, \\ q_4(x) &= x^{23} + x^{22} + x^{20} + x^{19} + x^{18} + x^{16} + x^{15} + x^{14} + x^{12} + x^{10} + x^9 + x^6 \\ &\quad + x^2. \end{aligned}$$

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

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

$$\begin{aligned}
& + x^{92} + x^{88} + x^{84} + x^{80} + x^{76} + x^{74} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58} \\
& + x^{56} + x^{52} + x^{48} + x^{46} + x^{44} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{18} \\
& + x^{14} + x^{12} + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) &= x^{136} + x^{128} + x^{104} + x^{80} + x^{72} + x^{64} + x^{32} + x^{24} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{123} + x^{117} + x^{115} + x^{114} + x^{113} + x^{109} + x^{108} + x^{107} \\
& + x^{105} + x^{99} + x^{98} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{69} \\
& + x^{67} + x^{66} + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} \\
& + x^{49} + x^{48} + x^{46} + x^{45} + x^{41} + x^{39} + x^{38} + x^{35} + x^{32} + x^{31} + x^{30} \\
& + x^{29} + x^{25} + x^{23} + x^{21} + x^{18}, \\
p_3(x) &= x^{124} + x^{122} + x^{121} + x^{119} + x^{116} + x^{113} + x^{112} + x^{110} + x^{109} + x^{107} \\
& + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{91} + x^{88} + x^{85} + x^{84} + x^{81} + x^{76} \\
& + x^{74} + x^{73} + x^{71} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} \\
& + x^{56} + x^{53} + x^{52} + x^{49} + x^{44} + x^{42} + x^{41} + x^{39} + x^{36} + x^{33} + x^{32} \\
& + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{19} + x^{16} + x^{13} \\
& + x^{12} + x^9, \\
p_6(x) &= x^{123} + x^{122} + x^{118} + x^{117} + x^{114} + x^{113} + x^{112} + x^{108} + x^{106} + x^{105} \\
& + x^{103} + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{89} + x^{86} + x^{85} + x^{84} + x^{81} \\
& + x^{79} + x^{74} + x^{72} + x^{71} + x^{69} + x^{65} + x^{63} + x^{61} + x^{60} + x^{59} + x^{54} \\
& + x^{52} + x^{51} + x^{48} + x^{47} + x^{46} + x^{42} + x^{41} + x^{38} + x^{35} + x^{34} + x^{33} \\
& + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{22} + x^{21} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^6, \\
p_9(x) &= x^{122} + x^{119} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{107} + x^{102} + x^{100} \\
& + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} \\
& + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} \\
& + x^{59} + x^{58} + x^{55} + x^{54} + x^{51} + x^{50} + x^{47} + x^{44} + x^{42} + x^{41} + x^{39} \\
& + x^{34} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} \\
& + x^{13} + x^6 + x^3, \\
p_{12}(x) &= x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} \\
& + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{100} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{85} + x^{84} + x^{83} + x^{82} + x^{80} + x^{57} \\
& + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43}
\end{aligned}$$

$$\begin{aligned}
& + x^{42} + x^{41} + x^{39} + x^{38} + x^{36} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} \\
& + x^{26} + x^{25} + x^{23} + x^{22} + x^{20} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} \\
& + x^{10} + x^8 + x^5 + x^4 + x^3 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{125} + x^{123} + x^{117} + x^{115} + x^{114} + x^{113} + x^{109} + x^{108} + x^{107} \\
& + x^{105} + x^{99} + x^{98} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{81} + x^{80} + x^{77} + x^{75} + x^{74} + x^{73} + x^{72} + x^{69} \\
& + x^{67} + x^{66} + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} \\
& + x^{49} + x^{48} + x^{46} + x^{45} + x^{41} + x^{39} + x^{38} + x^{35} + x^{32} + x^{31} + x^{30} \\
& + x^{29} + x^{25} + x^{23} + x^{21} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{124} + x^{122} + x^{121} + x^{119} + x^{116} + x^{113} + x^{112} + x^{110} + x^{109} + x^{107} \\
& + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{91} + x^{88} + x^{85} + x^{84} + x^{81} + x^{76} \\
& + x^{74} + x^{73} + x^{71} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} \\
& + x^{56} + x^{53} + x^{52} + x^{49} + x^{44} + x^{42} + x^{41} + x^{39} + x^{36} + x^{33} + x^{32} \\
& + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{19} + x^{16} + x^{13} \\
& + x^{12} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{123} + x^{122} + x^{118} + x^{117} + x^{114} + x^{113} + x^{112} + x^{108} + x^{106} + x^{105} \\
& + x^{103} + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{89} + x^{86} + x^{85} + x^{84} + x^{81} \\
& + x^{79} + x^{74} + x^{72} + x^{71} + x^{69} + x^{65} + x^{63} + x^{61} + x^{60} + x^{59} + x^{54} \\
& + x^{52} + x^{51} + x^{48} + x^{47} + x^{46} + x^{42} + x^{41} + x^{38} + x^{35} + x^{34} + x^{33} \\
& + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{22} + x^{21} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{122} + x^{119} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{107} + x^{102} + x^{100} \\
& + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} \\
& + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} \\
& + x^{59} + x^{58} + x^{55} + x^{54} + x^{51} + x^{50} + x^{47} + x^{44} + x^{42} + x^{41} + x^{39} \\
& + x^{34} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} \\
& + x^{13} + x^6 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} \\
& + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{100} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{85} + x^{84} + x^{83} + x^{82} + x^{80} + x^{57} \\
& + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} \\
& + x^{42} + x^{41} + x^{39} + x^{38} + x^{36} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27}
\end{aligned}$$

$$\begin{aligned}
& + x^{26} + x^{25} + x^{23} + x^{22} + x^{20} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} \\
& + x^{10} + x^8 + x^5 + x^4 + x^3 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{110} + x^{102} + x^{98} + x^{96} + x^{92} + x^{90} + x^{88} + x^{86} + x^{82} + x^{80} \\
&+ x^{78} + x^{70} + x^{68} + x^{64} + x^{52} + x^{48} + x^{46} + x^{42} + x^{40} + x^{38} + x^{34} \\
&+ x^{32} + x^{30} + x^{24}, \\
p_3(x) &= x^{108} + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{90} + x^{88} + x^{84} + x^{80} + x^{70} \\
&+ x^{66} + x^{64} + x^{58} + x^{54} + x^{52} + x^{50} + x^{44} + x^{38} + x^{30} + x^{28} + x^{24} \\
&+ x^{22} + x^{20} + x^8 + x^6, \\
p_6(x) &= x^{108} + x^{106} + x^{104} + x^{102} + x^{96} + x^{94} + x^{92} + x^{88} + x^{86} + x^{84} + x^{82} \\
&+ x^{76} + x^{74} + x^{70} + x^{68} + x^{64} + x^{60} + x^{54} + x^{48} + x^{46} + x^{44} + x^{40} \\
&+ x^{38} + x^{32} + x^{26} + x^{16} + x^{14} + x^8 + x^6 + x^4 + x^2 + 1, \\
p_9(x) &= x^{106} + x^{100} + x^{96} + x^{92} + x^{90} + x^{84} + x^{82} + x^{80} + x^{76} + x^{74} + x^{70} \\
&+ x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{52} + x^{50} + x^{48} + x^{42} + x^{40} \\
&+ x^{38} + x^{36} + x^{30} + x^{26} + x^{24} + x^{22} + x^{20} + x^{18} + x^{16} + x^{12} + x^{10} \\
&+ x^8 + x^4 + x^2, \\
p_{12}(x) &= x^{106} + x^{104} + x^{102} + x^{100} + x^{96} + x^{90} + x^{88} + x^{86} + x^{84} + x^{80} + x^{42} \\
&+ x^{40} + x^{38} + x^{36} + x^{32} + x^{26} + x^{24} + x^{22} + x^{20} + x^{16} + x^{10} + x^8 \\
&+ x^6 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{114} + x^{108} + x^{104} + x^{98} + x^{94} + x^{88} + x^{84} + x^{80} + x^{78} + x^{68} + x^{66} \\
&+ x^{50} + x^{48} + x^{44} + x^{36} + x^{34} + x^{28} + x^{18} + x^{12}, \\
p_3(x) &= x^{108} + x^{102} + x^{100} + x^{96} + x^{92} + x^{90} + x^{88} + x^{86} + x^{78} + x^{74} + x^{72} \\
&+ x^{70} + x^{54} + x^{52} + x^{50} + x^{40} + x^{34} + x^{32} + x^{30} + x^{26} + x^{18} + x^{16} \\
&+ x^{14} + x^{12} + x^{10} + x^8, \\
p_6(x) &= x^{108} + x^{106} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{84} + x^{66} \\
&+ x^{62} + x^{60} + x^{58} + x^{56} + x^{54} + x^{48} + x^{46} + x^{42} + x^{40} + x^{38} + x^{36} \\
&+ x^{34} + x^{32} + x^{30} + x^{26} + x^{20} + x^{16} + x^{14} + x^{12} + x^2 + 1, \\
p_9(x) &= x^{106} + x^{100} + x^{96} + x^{92} + x^{90} + x^{84} + x^{82} + x^{80} + x^{76} + x^{74} + x^{70} \\
&+ x^{68} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{52} + x^{50} + x^{48} + x^{42} + x^{40} \\
&+ x^{38} + x^{36} + x^{30} + x^{26} + x^{24} + x^{22} + x^{20} + x^{18} + x^{16} + x^{12} + x^{10} \\
&+ x^8 + x^4 + x^2, \\
p_{12}(x) &= x^{106} + x^{104} + x^{102} + x^{100} + x^{96} + x^{90} + x^{88} + x^{86} + x^{84} + x^{80} + x^{42}
\end{aligned}$$

$$\begin{aligned}
& + x^{40} + x^{38} + x^{36} + x^{32} + x^{26} + x^{24} + x^{22} + x^{20} + x^{16} + x^{10} + x^8 \\
& + x^6 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{123} + x^{122} + x^{119} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} \\
& + x^{110} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{101} + x^{99} + x^{98} + x^{97} \\
& + x^{96} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{81} + x^{80} + x^{79} + x^{78} \\
& + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} + x^{61} + x^{58} \\
& + x^{52} + x^{51} + x^{50} + x^{48} + x^{45} + x^{42} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30} \\
& + x^{28} + x^{24},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{124} + x^{122} + x^{121} + x^{119} + x^{116} + x^{113} + x^{112} + x^{110} + x^{109} + x^{107} \\
& + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{91} + x^{88} + x^{85} + x^{84} + x^{81} + x^{76} \\
& + x^{74} + x^{73} + x^{71} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} \\
& + x^{56} + x^{53} + x^{52} + x^{49} + x^{44} + x^{42} + x^{41} + x^{39} + x^{36} + x^{33} + x^{32} \\
& + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{19} + x^{16} + x^{13} \\
& + x^{12} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{123} + x^{122} + x^{118} + x^{117} + x^{114} + x^{113} + x^{112} + x^{108} + x^{106} + x^{105} \\
& + x^{103} + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{89} + x^{86} + x^{85} + x^{84} + x^{81} \\
& + x^{79} + x^{74} + x^{72} + x^{71} + x^{69} + x^{65} + x^{63} + x^{61} + x^{60} + x^{59} + x^{54} \\
& + x^{52} + x^{51} + x^{48} + x^{47} + x^{46} + x^{42} + x^{41} + x^{38} + x^{35} + x^{34} + x^{33} \\
& + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{22} + x^{21} + x^{19} + x^{17} + x^{16} + x^{15} \\
& + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{122} + x^{119} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{107} + x^{102} + x^{100} \\
& + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} \\
& + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} \\
& + x^{59} + x^{58} + x^{55} + x^{54} + x^{51} + x^{50} + x^{47} + x^{44} + x^{42} + x^{41} + x^{39} \\
& + x^{34} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} \\
& + x^{13} + x^6 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} \\
& + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{100} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{85} + x^{84} + x^{83} + x^{82} + x^{80} + x^{57} \\
& + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} \\
& + x^{42} + x^{41} + x^{39} + x^{38} + x^{36} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} \\
& + x^{26} + x^{25} + x^{23} + x^{22} + x^{20} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11}
\end{aligned}$$

$$+ x^{10} + x^8 + x^5 + x^4 + x^3 + x^2 + 1,$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{123} + x^{122} + x^{119} + x^{116} + x^{115} + x^{114} + x^{113} + x^{112} + x^{111} \\ & + x^{110} + x^{107} + x^{106} + x^{105} + x^{104} + x^{103} + x^{101} + x^{99} + x^{98} + x^{97} \\ & + x^{96} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} + x^{85} + x^{81} + x^{80} + x^{79} + x^{78} \\ & + x^{77} + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} + x^{61} + x^{58} \\ & + x^{52} + x^{51} + x^{50} + x^{48} + x^{45} + x^{42} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30} \\ & + x^{28} + x^{24}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{124} + x^{122} + x^{121} + x^{119} + x^{116} + x^{113} + x^{112} + x^{110} + x^{109} + x^{107} \\ & + x^{102} + x^{99} + x^{98} + x^{95} + x^{94} + x^{91} + x^{88} + x^{85} + x^{84} + x^{81} + x^{76} \\ & + x^{74} + x^{73} + x^{71} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} \\ & + x^{56} + x^{53} + x^{52} + x^{49} + x^{44} + x^{42} + x^{41} + x^{39} + x^{36} + x^{33} + x^{32} \\ & + x^{30} + x^{29} + x^{28} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{19} + x^{16} + x^{13} \\ & + x^{12} + x^9, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{123} + x^{122} + x^{118} + x^{117} + x^{114} + x^{113} + x^{112} + x^{108} + x^{106} + x^{105} \\ & + x^{103} + x^{99} + x^{97} + x^{95} + x^{94} + x^{93} + x^{89} + x^{86} + x^{85} + x^{84} + x^{81} \\ & + x^{79} + x^{74} + x^{72} + x^{71} + x^{69} + x^{65} + x^{63} + x^{61} + x^{60} + x^{59} + x^{54} \\ & + x^{52} + x^{51} + x^{48} + x^{47} + x^{46} + x^{42} + x^{41} + x^{38} + x^{35} + x^{34} + x^{33} \\ & + x^{32} + x^{31} + x^{29} + x^{28} + x^{27} + x^{22} + x^{21} + x^{19} + x^{17} + x^{16} + x^{15} \\ & + x^{13} + x^{12} + x^{11} + x^9 + x^8 + x^6, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{122} + x^{119} + x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{107} + x^{102} + x^{100} \\ & + x^{99} + x^{98} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{87} \\ & + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} \\ & + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{61} \\ & + x^{59} + x^{58} + x^{55} + x^{54} + x^{51} + x^{50} + x^{47} + x^{44} + x^{42} + x^{41} + x^{39} \\ & + x^{34} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} \\ & + x^{13} + x^6 + x^3, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{121} + x^{120} + x^{119} + x^{118} + x^{117} + x^{115} + x^{114} + x^{113} + x^{111} + x^{110} \\ & + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{100} + x^{97} + x^{96} + x^{95} \\ & + x^{94} + x^{93} + x^{91} + x^{90} + x^{88} + x^{85} + x^{84} + x^{83} + x^{82} + x^{80} + x^{57} \\ & + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{43} \\ & + x^{42} + x^{41} + x^{39} + x^{38} + x^{36} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{27} \\ & + x^{26} + x^{25} + x^{23} + x^{22} + x^{20} + x^{17} + x^{16} + x^{15} + x^{14} + x^{13} + x^{11} \\ & + x^{10} + x^8 + x^5 + x^4 + x^3 + x^2 + 1, \end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{130} + x^{128} + x^{120} + x^{118} + x^{116} + x^{114} + x^{108} + x^{98} + x^{96} \\
&\quad + x^{94} + x^{86} + x^{82} + x^{78} + x^{76} + x^{72} + x^{68} + x^{62} + x^{58} + x^{56} + x^{44} \\
&\quad + x^{42} + x^{36}, \\
p_3(x) &= x^{124} + x^{120} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} + x^{102} + x^{100} + x^{98} \\
&\quad + x^{96} + x^{94} + x^{90} + x^{86} + x^{84} + x^{82} + x^{74} + x^{72} + x^{70} + x^{66} + x^{62} \\
&\quad + x^{58} + x^{48} + x^{46} + x^{44} + x^{28} + x^{26} + x^{18} + x^{16} + x^{14} + x^8 + x^6, \\
p_6(x) &= x^{134} + x^{130} + x^{122} + x^{114} + x^{110} + x^{108} + x^{96} + x^{90} + x^{88} + x^{86} \\
&\quad + x^{80} + x^{78} + x^{76} + x^{70} + x^{68} + x^{64} + x^{56} + x^{54} + x^{46} + x^{44} + x^{42} \\
&\quad + x^{40} + x^{32} + x^{26} + x^{24} + x^{22} + x^{20} + x^{16} + x^{12} + x^6 + x^2 + 1, \\
p_9(x) &= x^{136} + x^{134} + x^{130} + x^{128} + x^{124} + x^{118} + x^{116} + x^{112} + x^{104} + x^{98} \\
&\quad + x^{92} + x^{88} + x^{84} + x^{80} + x^{76} + x^{74} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58} \\
&\quad + x^{56} + x^{52} + x^{48} + x^{46} + x^{44} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{18} \\
&\quad + x^{14} + x^{12} + x^8 + x^6 + x^4 + x^2, \\
p_{12}(x) &= x^{136} + x^{128} + x^{104} + x^{80} + x^{72} + x^{64} + x^{32} + x^{24} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{120} + x^{119} + x^{118} + x^{113} + x^{112} + x^{109} \\
&\quad + x^{106} + x^{105} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} + x^{93} + x^{92} + x^{89} \\
&\quad + x^{88} + x^{87} + x^{86} + x^{84} + x^{82} + x^{81} + x^{79} + x^{77} + x^{76} + x^{73} + x^{70} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{65} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} \\
&\quad + x^{51} + x^{48} + x^{47} + x^{44} + x^{42} + x^{41} + x^{40} + x^{38} + x^{31} + x^{30} + x^{29} \\
&\quad + x^{27} + x^{23} + x^{20} + x^{16} + x^{15} + x^{12}, \\
p_3(x) &= x^{125} + x^{121} + x^{119} + x^{116} + x^{113} + x^{108} + x^{106} + x^{105} + x^{101} + x^{99} \\
&\quad + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{86} + x^{79} + x^{78} + x^{76} \\
&\quad + x^{74} + x^{72} + x^{71} + x^{69} + x^{67} + x^{64} + x^{62} + x^{61} + x^{60} + x^{57} + x^{56} \\
&\quad + x^{49} + x^{48} + x^{45} + x^{44} + x^{42} + x^{41} + x^{40} + x^{37} + x^{36} + x^{33} + x^{32} \\
&\quad + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{19} + x^{17} + x^{16} + x^{14} + x^{12} \\
&\quad + x^{11} + x^8, \\
p_6(x) &= x^{125} + x^{121} + x^{120} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} + x^{110} \\
&\quad + x^{109} + x^{107} + x^{105} + x^{104} + x^{100} + x^{97} + x^{95} + x^{94} + x^{92} + x^{90} \\
&\quad + x^{89} + x^{87} + x^{84} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} \\
&\quad + x^{70} + x^{69} + x^{68} + x^{67} + x^{64} + x^{62} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} \\
&\quad + x^{51} + x^{50} + x^{46} + x^{44} + x^{41} + x^{40} + x^{34} + x^{33} + x^{32} + x^{31} + x^{28}
\end{aligned}$$

$$\begin{aligned}
& + x^{25} + x^{24} + x^{21} + x^8 + x^7 + x^5 + x^3 + x^2 + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} \\
& + x^{111} + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} \\
& + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{92} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} \\
& + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} \\
& + x^{31} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} \\
& + x^{17} + x^{15} + x^{14} + x^{12} + x^9 + x^8 + x^7 + x^6 + x^4, \\
p_{12}(x) = & x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{116} + x^{101} + x^{100} \\
& + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{83} + x^{82} + x^{80} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} \\
& + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{21} + x^{20} + x^{19} + x^{18} + x^{16} + x^{13} \\
& + x^{12} + x^{11} + x^{10} + x^9 + x^7 + x^6 + x^5 + x^3 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{124} + x^{121} + x^{119} + x^{118} + x^{112} + x^{110} + x^{109} + x^{108} + x^{101} + x^{99} \\
& + x^{98} + x^{97} + x^{93} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{82} + x^{81} + x^{80} \\
& + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{71} + x^{68} + x^{67} + x^{66} + x^{65} \\
& + x^{63} + x^{61} + x^{60} + x^{59} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} \\
& + x^{45} + x^{43} + x^{42} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} \\
& + x^{30} + x^{29} + x^{26} + x^{23} + x^{18}, \\
p_3(x) = & x^{117} + x^{116} + x^{115} + x^{113} + x^{111} + x^{109} + x^{107} + x^{106} + x^{104} + x^{99} \\
& + x^{98} + x^{97} + x^{96} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} + x^{85} + x^{81} + x^{69} \\
& + x^{68} + x^{67} + x^{65} + x^{63} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{49} \\
& + x^{37} + x^{36} + x^{35} + x^{33} + x^{31} + x^{29} + x^{27} + x^{26} + x^{24} + x^{21} + x^{20} \\
& + x^{18} + x^{16} + x^{15} + x^{13} + x^9, \\
p_6(x) = & x^{118} + x^{116} + x^{114} + x^{108} + x^{106} + x^{104} + x^{102} + x^{98} + x^{96} + x^{92} \\
& + x^{88} + x^{86} + x^{80} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} + x^{64} + x^{62} + x^{58} \\
& + x^{54} + x^{52} + x^{50} + x^{48} + x^{42} + x^{40} + x^{38} + x^{30} + x^{26} + x^{22} + x^{20} \\
& + x^{18} + x^{14} + x^{10} + x^6, \\
p_9(x) = & x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{110} + x^{108} + x^{106} + x^{105} \\
& + x^{102} + x^{100} + x^{98} + x^{97} + x^{94} + x^{92} + x^{90} + x^{89} + x^{87} + x^{83} + x^{55} \\
& + x^{54} + x^{52} + x^{51} + x^{50} + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} + x^{38} + x^{36} \\
& + x^{34} + x^{33} + x^{30} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{18} + x^{17} + x^{14} \\
& + x^{12} + x^{10} + x^9 + x^7 + x^3,
\end{aligned}$$

$$p_{12}(x) = x^{120} + x^{116} + x^{96} + x^{88} + x^{84} + x^{80} + x^{56} + x^{52} + x^{32} + x^{16} + x^8 + x^4 + 1,$$

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

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

$$\begin{aligned} p_0(x) &= x^{138} + x^{137} + x^{136} + x^{130} + x^{128} + x^{127} + x^{126} + x^{124} + x^{123} + x^{120} \\ &\quad + x^{119} + x^{118} + x^{116} + x^{109} + x^{102} + x^{101} + x^{99} + x^{97} + x^{96} + x^{93} \\ &\quad + x^{92} + x^{91} + x^{87} + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{75} \\ &\quad + x^{73} + x^{68} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{52} \\ &\quad + x^{50} + x^{47} + x^{45} + x^{40} + x^{37} + x^{34} + x^{32} + x^{27} + x^{24}, \\ p_3(x) &= x^{137} + x^{136} + x^{135} + x^{132} + x^{129} + x^{128} + x^{127} + x^{126} + x^{125} + x^{123} \\ &\quad + x^{122} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{113} + x^{112} + x^{109} \\ &\quad + x^{108} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} + x^{97} + x^{95} + x^{93} \\ &\quad + x^{92} + x^{90} + x^{85} + x^{84} + x^{81} + x^{78} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} \\ &\quad + x^{70} + x^{68} + x^{66} + x^{64} + x^{60} + x^{58} + x^{57} + x^{53} + x^{52} + x^{48} + x^{47} \\ &\quad + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{37} + x^{35} + x^{33} + x^{32} + x^{30} + x^{23} \\ &\quad + x^{21} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} + x^{13} + x^9, \\ p_6(x) &= x^{138} + x^{136} + x^{132} + x^{126} + x^{124} + x^{122} + x^{112} + x^{106} + x^{100} + x^{98} \\ &\quad + x^{96} + x^{94} + x^{92} + x^{90} + x^{84} + x^{82} + x^{72} + x^{70} + x^{68} + x^{66} + x^{64} \\ &\quad + x^{60} + x^{54} + x^{46} + x^{38} + x^{36} + x^{32} + x^{30} + x^{28} + x^{26} + x^{20} + x^{18} \\ &\quad + x^{10} + x^6, \\ p_9(x) &= x^{139} + x^{138} + x^{136} + x^{133} + x^{132} + x^{130} + x^{129} + x^{123} + x^{119} + x^{118} \\ &\quad + x^{116} + x^{115} + x^{114} + x^{113} + x^{110} + x^{108} + x^{107} + x^{105} + x^{104} \\ &\quad + x^{102} + x^{101} + x^{94} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{83} + x^{75} + x^{74} \\ &\quad + x^{72} + x^{69} + x^{68} + x^{66} + x^{65} + x^{59} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} \\ &\quad + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} + x^{38} + x^{36} + x^{34} + x^{33} + x^{30} + x^{28} \\ &\quad + x^{27} + x^{25} + x^{24} + x^{22} + x^{21} + x^{14} + x^{12} + x^{11} + x^{10} + x^9 + x^7 + x^3, \\ p_{12}(x) &= x^{140} + x^{124} + x^{120} + x^{112} + x^{104} + x^{100} + x^{84} + x^{80} + x^{76} + x^{60} \\ &\quad + x^{56} + x^{48} + x^{44} + x^{40} + x^{36} + x^{24} + x^{20} + x^4 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{119} + x^{118} + x^{112} + x^{111} + x^{107} + x^{106} \\ &\quad + x^{105} + x^{102} + x^{100} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{90} + x^{85} + x^{83} \\ &\quad + x^{81} + x^{80} + x^{77} + x^{76} + x^{73} + x^{72} + x^{71} + x^{66} + x^{65} + x^{64} + x^{63} \\ &\quad + x^{61} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{43} \\ &\quad + x^{42} + x^{38} + x^{37} + x^{36} + x^{35} + x^{30}, \end{aligned}$$

$$\begin{aligned}
p_3(x) &= x^{125} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} \\
&\quad + x^{111} + x^{109} + x^{108} + x^{106} + x^{105} + x^{104} + x^{102} + x^{99} + x^{96} + x^{94} \\
&\quad + x^{92} + x^{91} + x^{87} + x^{83} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{71} \\
&\quad + x^{70} + x^{69} + x^{67} + x^{65} + x^{63} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} \\
&\quad + x^{51} + x^{49} + x^{45} + x^{44} + x^{43} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} \\
&\quad + x^{32} + x^{31} + x^{30} + x^{23} + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{12}, \\
p_6(x) &= x^{125} + x^{123} + x^{122} + x^{119} + x^{118} + x^{110} + x^{105} + x^{104} + x^{102} + x^{101} \\
&\quad + x^{100} + x^{98} + x^{96} + x^{93} + x^{92} + x^{90} + x^{87} + x^{86} + x^{84} + x^{83} + x^{79} \\
&\quad + x^{78} + x^{76} + x^{74} + x^{72} + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} \\
&\quad + x^{59} + x^{58} + x^{54} + x^{50} + x^{49} + x^{46} + x^{42} + x^{40} + x^{38} + x^{35} + x^{29} \\
&\quad + x^{27} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} + x^{15} + x^{10} + x^5 \\
&\quad + x^4 + x^3 + x^2 + 1, \\
p_9(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} \\
&\quad + x^{111} + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} \\
&\quad + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{92} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} \\
&\quad + x^{61} + x^{60} + x^{59} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} \\
&\quad + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} \\
&\quad + x^{31} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} \\
&\quad + x^{17} + x^{15} + x^{14} + x^{12} + x^9 + x^8 + x^7 + x^6 + x^4, \\
p_{12}(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{116} + x^{101} + x^{100} \\
&\quad + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} \\
&\quad + x^{83} + x^{82} + x^{80} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} \\
&\quad + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{21} + x^{20} + x^{19} + x^{18} + x^{16} + x^{13} \\
&\quad + x^{12} + x^{11} + x^{10} + x^9 + x^7 + x^6 + x^5 + x^3 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{125} + x^{124} + x^{123} + x^{120} + x^{119} + x^{118} + x^{113} + x^{112} + x^{109} \\
&\quad + x^{106} + x^{105} + x^{101} + x^{100} + x^{99} + x^{97} + x^{96} + x^{93} + x^{92} + x^{89} \\
&\quad + x^{88} + x^{87} + x^{86} + x^{84} + x^{82} + x^{81} + x^{79} + x^{77} + x^{76} + x^{73} + x^{70} \\
&\quad + x^{68} + x^{67} + x^{66} + x^{65} + x^{61} + x^{59} + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} \\
&\quad + x^{51} + x^{48} + x^{47} + x^{44} + x^{42} + x^{41} + x^{40} + x^{38} + x^{31} + x^{30} + x^{29} \\
&\quad + x^{27} + x^{23} + x^{20} + x^{16} + x^{15} + x^{12}, \\
p_3(x) &= x^{125} + x^{121} + x^{119} + x^{116} + x^{113} + x^{108} + x^{106} + x^{105} + x^{101} + x^{99} \\
&\quad + x^{98} + x^{97} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{86} + x^{79} + x^{78} + x^{76} \\
&\quad + x^{74} + x^{72} + x^{71} + x^{69} + x^{67} + x^{64} + x^{62} + x^{61} + x^{60} + x^{57} + x^{56}
\end{aligned}$$

$$\begin{aligned}
& + x^{49} + x^{48} + x^{45} + x^{44} + x^{42} + x^{41} + x^{40} + x^{37} + x^{36} + x^{33} + x^{32} \\
& + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{19} + x^{17} + x^{16} + x^{14} + x^{12} \\
& + x^{11} + x^8, \\
p_6(x) = & x^{125} + x^{121} + x^{120} + x^{118} + x^{117} + x^{116} + x^{114} + x^{113} + x^{112} + x^{110} \\
& + x^{109} + x^{107} + x^{105} + x^{104} + x^{100} + x^{97} + x^{95} + x^{94} + x^{92} + x^{90} \\
& + x^{89} + x^{87} + x^{84} + x^{82} + x^{81} + x^{80} + x^{78} + x^{77} + x^{75} + x^{74} + x^{73} \\
& + x^{70} + x^{69} + x^{68} + x^{67} + x^{64} + x^{62} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} \\
& + x^{51} + x^{50} + x^{46} + x^{44} + x^{41} + x^{40} + x^{34} + x^{33} + x^{32} + x^{31} + x^{28} \\
& + x^{25} + x^{24} + x^{21} + x^8 + x^7 + x^5 + x^3 + x^2 + 1, \\
p_9(x) = & x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} \\
& + x^{111} + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} \\
& + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{92} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} \\
& + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} \\
& + x^{31} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} \\
& + x^{17} + x^{15} + x^{14} + x^{12} + x^9 + x^8 + x^7 + x^6 + x^4, \\
p_{12}(x) = & x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{116} + x^{101} + x^{100} \\
& + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} \\
& + x^{83} + x^{82} + x^{80} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} \\
& + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{21} + x^{20} + x^{19} + x^{18} + x^{16} + x^{13} \\
& + x^{12} + x^{11} + x^{10} + x^9 + x^7 + x^6 + x^5 + x^3 + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{138} + x^{137} + x^{136} + x^{130} + x^{128} + x^{127} + x^{126} + x^{124} + x^{123} + x^{120} \\
& + x^{119} + x^{118} + x^{116} + x^{109} + x^{102} + x^{101} + x^{99} + x^{97} + x^{96} + x^{93} \\
& + x^{92} + x^{91} + x^{87} + x^{86} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{75} \\
& + x^{73} + x^{68} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{58} + x^{57} + x^{56} + x^{52} \\
& + x^{50} + x^{47} + x^{45} + x^{40} + x^{37} + x^{34} + x^{32} + x^{27} + x^{24}, \\
p_3(x) = & x^{137} + x^{136} + x^{135} + x^{132} + x^{129} + x^{128} + x^{127} + x^{126} + x^{125} + x^{123} \\
& + x^{122} + x^{120} + x^{119} + x^{117} + x^{116} + x^{115} + x^{113} + x^{112} + x^{109} \\
& + x^{108} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} + x^{97} + x^{95} + x^{93} \\
& + x^{92} + x^{90} + x^{85} + x^{84} + x^{81} + x^{78} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} \\
& + x^{70} + x^{68} + x^{66} + x^{64} + x^{60} + x^{58} + x^{57} + x^{53} + x^{52} + x^{48} + x^{47} \\
& + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{37} + x^{35} + x^{33} + x^{32} + x^{30} + x^{23} \\
& + x^{21} + x^{20} + x^{18} + x^{17} + x^{16} + x^{15} + x^{13} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{138} + x^{136} + x^{132} + x^{126} + x^{124} + x^{122} + x^{112} + x^{106} + x^{100} + x^{98} \\
&\quad + x^{96} + x^{94} + x^{92} + x^{90} + x^{84} + x^{82} + x^{72} + x^{70} + x^{68} + x^{66} + x^{64} \\
&\quad + x^{60} + x^{54} + x^{46} + x^{38} + x^{36} + x^{32} + x^{30} + x^{28} + x^{26} + x^{20} + x^{18} \\
&\quad + x^{10} + x^6, \\
p_9(x) &= x^{139} + x^{138} + x^{136} + x^{133} + x^{132} + x^{130} + x^{129} + x^{123} + x^{119} + x^{118} \\
&\quad + x^{116} + x^{115} + x^{114} + x^{113} + x^{110} + x^{108} + x^{107} + x^{105} + x^{104} \\
&\quad + x^{102} + x^{101} + x^{94} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{83} + x^{75} + x^{74} \\
&\quad + x^{72} + x^{69} + x^{68} + x^{66} + x^{65} + x^{59} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} \\
&\quad + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} + x^{38} + x^{36} + x^{34} + x^{33} + x^{30} + x^{28} \\
&\quad + x^{27} + x^{25} + x^{24} + x^{22} + x^{21} + x^{14} + x^{12} + x^{11} + x^{10} + x^9 + x^7 + x^3, \\
p_{12}(x) &= x^{140} + x^{124} + x^{120} + x^{112} + x^{104} + x^{100} + x^{84} + x^{80} + x^{76} + x^{60} \\
&\quad + x^{56} + x^{48} + x^{44} + x^{40} + x^{36} + x^{24} + x^{20} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{121} + x^{119} + x^{118} + x^{112} + x^{110} + x^{109} + x^{108} + x^{101} + x^{99} \\
&\quad + x^{98} + x^{97} + x^{93} + x^{90} + x^{89} + x^{88} + x^{87} + x^{85} + x^{82} + x^{81} + x^{80} \\
&\quad + x^{79} + x^{78} + x^{77} + x^{74} + x^{73} + x^{72} + x^{71} + x^{68} + x^{67} + x^{66} + x^{65} \\
&\quad + x^{63} + x^{61} + x^{60} + x^{59} + x^{55} + x^{54} + x^{53} + x^{51} + x^{50} + x^{48} + x^{47} \\
&\quad + x^{45} + x^{43} + x^{42} + x^{39} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{31} \\
&\quad + x^{30} + x^{29} + x^{26} + x^{23} + x^{18}, \\
p_3(x) &= x^{117} + x^{116} + x^{115} + x^{113} + x^{111} + x^{109} + x^{107} + x^{106} + x^{104} + x^{99} \\
&\quad + x^{98} + x^{97} + x^{96} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} + x^{85} + x^{81} + x^{69} \\
&\quad + x^{68} + x^{67} + x^{65} + x^{63} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{53} + x^{49} \\
&\quad + x^{37} + x^{36} + x^{35} + x^{33} + x^{31} + x^{29} + x^{27} + x^{26} + x^{24} + x^{21} + x^{20} \\
&\quad + x^{18} + x^{16} + x^{15} + x^{13} + x^9, \\
p_6(x) &= x^{118} + x^{116} + x^{114} + x^{108} + x^{106} + x^{104} + x^{102} + x^{98} + x^{96} + x^{92} \\
&\quad + x^{88} + x^{86} + x^{80} + x^{78} + x^{74} + x^{72} + x^{70} + x^{68} + x^{64} + x^{62} + x^{58} \\
&\quad + x^{54} + x^{52} + x^{50} + x^{48} + x^{42} + x^{40} + x^{38} + x^{30} + x^{26} + x^{22} + x^{20} \\
&\quad + x^{18} + x^{14} + x^{10} + x^6, \\
p_9(x) &= x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} + x^{110} + x^{108} + x^{106} + x^{105} \\
&\quad + x^{102} + x^{100} + x^{98} + x^{97} + x^{94} + x^{92} + x^{90} + x^{89} + x^{87} + x^{83} + x^{55} \\
&\quad + x^{54} + x^{52} + x^{51} + x^{50} + x^{49} + x^{46} + x^{44} + x^{42} + x^{41} + x^{38} + x^{36} \\
&\quad + x^{34} + x^{33} + x^{30} + x^{28} + x^{26} + x^{25} + x^{22} + x^{20} + x^{18} + x^{17} + x^{14} \\
&\quad + x^{12} + x^{10} + x^9 + x^7 + x^3, \\
p_{12}(x) &= x^{120} + x^{116} + x^{96} + x^{88} + x^{84} + x^{80} + x^{56} + x^{52} + x^{32} + x^{16} + x^8
\end{aligned}$$

$$+ x^4 + 1,$$

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

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

$$\begin{aligned} p_0(x) &= x^{126} + x^{124} + x^{122} + x^{121} + x^{119} + x^{118} + x^{112} + x^{111} + x^{107} + x^{106} \\ &\quad + x^{105} + x^{102} + x^{100} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{90} + x^{85} + x^{83} \\ &\quad + x^{81} + x^{80} + x^{77} + x^{76} + x^{73} + x^{72} + x^{71} + x^{66} + x^{65} + x^{64} + x^{63} \\ &\quad + x^{61} + x^{57} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{48} + x^{47} + x^{43} \\ &\quad + x^{42} + x^{38} + x^{37} + x^{36} + x^{35} + x^{30}, \\ p_3(x) &= x^{125} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} + x^{116} + x^{115} + x^{114} + x^{113} \\ &\quad + x^{111} + x^{109} + x^{108} + x^{106} + x^{105} + x^{104} + x^{102} + x^{99} + x^{96} + x^{94} \\ &\quad + x^{92} + x^{91} + x^{87} + x^{83} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{73} + x^{71} \\ &\quad + x^{70} + x^{69} + x^{67} + x^{65} + x^{63} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} \\ &\quad + x^{51} + x^{49} + x^{45} + x^{44} + x^{43} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{33} \\ &\quad + x^{32} + x^{31} + x^{30} + x^{23} + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{12}, \\ p_6(x) &= x^{125} + x^{123} + x^{122} + x^{119} + x^{118} + x^{110} + x^{105} + x^{104} + x^{102} + x^{101} \\ &\quad + x^{100} + x^{98} + x^{96} + x^{93} + x^{92} + x^{90} + x^{87} + x^{86} + x^{84} + x^{83} + x^{79} \\ &\quad + x^{78} + x^{76} + x^{74} + x^{72} + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{60} \\ &\quad + x^{59} + x^{58} + x^{54} + x^{50} + x^{49} + x^{46} + x^{42} + x^{40} + x^{38} + x^{35} + x^{29} \\ &\quad + x^{27} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{18} + x^{17} + x^{15} + x^{10} + x^5 \\ &\quad + x^4 + x^3 + x^2 + 1, \\ p_9(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{117} + x^{116} + x^{115} + x^{114} + x^{113} \\ &\quad + x^{111} + x^{110} + x^{109} + x^{107} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} \\ &\quad + x^{99} + x^{98} + x^{97} + x^{95} + x^{94} + x^{92} + x^{89} + x^{88} + x^{87} + x^{86} + x^{84} \\ &\quad + x^{61} + x^{60} + x^{59} + x^{58} + x^{56} + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{47} \\ &\quad + x^{46} + x^{45} + x^{43} + x^{42} + x^{41} + x^{39} + x^{38} + x^{37} + x^{35} + x^{34} + x^{33} \\ &\quad + x^{31} + x^{30} + x^{29} + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{19} + x^{18} \\ &\quad + x^{17} + x^{15} + x^{14} + x^{12} + x^9 + x^8 + x^7 + x^6 + x^4, \\ p_{12}(x) &= x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{119} + x^{118} + x^{116} + x^{101} + x^{100} \\ &\quad + x^{99} + x^{98} + x^{96} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} \\ &\quad + x^{83} + x^{82} + x^{80} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{52} \\ &\quad + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{21} + x^{20} + x^{19} + x^{18} + x^{16} + x^{13} \\ &\quad + x^{12} + x^{11} + x^{10} + x^9 + x^7 + x^6 + x^5 + x^3 + x^2 + 1, \end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2041	[3305, 1056]	4082	[5423, 868]	6123	[235, 4715]
1	[3, 4]	2042	[3306, 1567]	4083	[5424, 32]	6124	[7028, 2423]
2	[5, 6]	2043	[3307, 3308]	4084	[5425, 563]	6125	[7029, 6788]
3	[7, 8]	2044	[3309, 3310]	4085	[702, 2417]	6126	[7030, 2475]
4	[9, 10]	2045	[3311, 3312]	4086	[5358, 2490]	6127	[7031, 4456]
5	[11, 12]	2046	[3313, 3314]	4087	[1682, 5426]	6128	[4147, 804]
6	[13, 14]	2047	[3315, 3316]	4088	[5427, 2572]	6129	[7032, 2277]
7	[15, 16]	2048	[3317, 3318]	4089	[4499, 856]	6130	[5022, 5159]
8	[17, 18]	2049	[3319, 3320]	4090	[5428, 4240]	6131	[2364, 2176]
9	[19, 20]	2050	[3321, 448]	4091	[5429, 547]	6132	[599, 2447]
10	[21, 22]	2051	[2878, 2842]	4092	[5430, 1928]	6133	[2514, 1880]
11	[23, 24]	2052	[449, 3322]	4093	[5431, 5356]	6134	[7033, 7034]
12	[25, 26]	2053	[3323, 1258]	4094	[5432, 5073]	6135	[7035, 7036]
13	[27, 28]	2054	[3324, 3325]	4095	[5433, 5233]	6136	[7037, 4998]
14	[29, 30]	2055	[3326, 1403]	4096	[5434, 4555]	6137	[7038, 4556]
15	[31, 32]	2056	[3327, 3328]	4097	[5435, 2316]	6138	[4629, 2186]
16	[33, 34]	2057	[3329, 3330]	4098	[5436, 4266]	6139	[7039, 2616]
17	[35, 36]	2058	[3331, 3332]	4099	[2080, 5437]	6140	[7040, 4688]
18	[37, 38]	2059	[3333, 1370]	4100	[5381, 5438]	6141	[7041, 176]
19	[39, 40]	2060	[3334, 3335]	4101	[5068, 5186]	6142	[7042, 4626]
20	[41, 42]	2061	[3336, 3337]	4102	[5439, 2173]	6143	[7043, 6888]
21	[43, 44]	2062	[387, 993]	4103	[5440, 1918]	6144	[7044, 2374]
22	[45, 46]	2063	[3338, 3339]	4104	[796, 5038]	6145	[2263, 535]
23	[47, 48]	2064	[3340, 3341]	4105	[5397, 5441]	6146	[227, 4485]
24	[49, 50]	2065	[3342, 3343]	4106	[1879, 5333]	6147	[7045, 4496]
25	[51, 52]	2066	[3344, 85]	4107	[2538, 2059]	6148	[7046, 747]
26	[53, 54]	2067	[329, 3345]	4108	[5442, 804]	6149	[7047, 4554]
27	[55, 56]	2068	[3346, 3012]	4109	[2394, 5046]	6150	[4697, 4289]
28	[57, 58]	2069	[1127, 2777]	4110	[1928, 2191]	6151	[7048, 244]
29	[59, 60]	2070	[1508, 1258]	4111	[2317, 5443]	6152	[7049, 247]
30	[61, 62]	2071	[3347, 3348]	4112	[5444, 4997]	6153	[7050, 4993]
31	[63, 64]	2072	[3349, 3350]	4113	[2182, 5445]	6154	[7051, 1985]
32	[65, 66]	2073	[1188, 3351]	4114	[5446, 5166]	6155	[7052, 2375]
33	[67, 68]	2074	[3352, 1110]	4115	[5001, 5301]	6156	[4807, 727]
34	[69, 70]	2075	[3325, 281]	4116	[3391, 3014]	6157	[2583, 6523]
35	[71, 72]	2076	[3353, 3354]	4117	[5447, 5448]	6158	[7053, 5381]
36	[73, 74]	2077	[3355, 2852]	4118	[5449, 947]	6159	[7054, 536]
37	[75, 76]	2078	[3356, 1322]	4119	[5450, 5451]	6160	[7055, 6943]
38	[77, 78]	2079	[3357, 3358]	4120	[5452, 2805]	6161	[6619, 5252]
39	[79, 80]	2080	[2772, 3359]	4121	[1537, 5453]	6162	[6614, 5296]
40	[81, 82]	2081	[3360, 3361]	4122	[477, 5454]	6163	[2140, 5428]
41	[83, 84]	2082	[3362, 980]	4123	[5455, 3769]	6164	[7056, 4977]
42	[85, 86]	2083	[3363, 3364]	4124	[5456, 5457]	6165	[7057, 2274]

43	[87, 88]	2084	[3365, 3366]	4125	[3048, 5458]	6166	[1860, 6876]
44	[89, 90]	2085	[3367, 3368]	4126	[3049, 1391]	6167	[7058, 4721]
45	[91, 92]	2086	[3369, 1523]	4127	[5459, 5460]	6168	[1968, 6961]
46	[93, 94]	2087	[3370, 418]	4128	[5461, 3084]	6169	[6594, 653]
47	[95, 96]	2088	[3371, 3372]	4129	[5462, 386]	6170	[7059, 2668]
48	[97, 98]	2089	[3128, 3097]	4130	[5463, 3217]	6171	[7060, 1747]
49	[99, 100]	2090	[3373, 3374]	4131	[1571, 5464]	6172	[7061, 4849]
50	[101, 102]	2091	[3375, 3376]	4132	[5465, 443]	6173	[7062, 2558]
51	[103, 104]	2092	[3377, 1263]	4133	[5466, 23]	6174	[7027, 751]
52	[105, 106]	2093	[3378, 1167]	4134	[5467, 1450]	6175	[1825, 4854]
53	[107, 6]	2094	[3075, 3379]	4135	[5468, 1394]	6176	[7063, 2184]
54	[108, 109]	2095	[3380, 3146]	4136	[5469, 1387]	6177	[7064, 4841]
55	[110, 111]	2096	[3381, 3382]	4137	[5470, 249]	6178	[7065, 2706]
56	[112, 113]	2097	[2899, 1213]	4138	[3191, 5471]	6179	[7066, 7000]
57	[114, 115]	2098	[3383, 447]	4139	[5472, 3247]	6180	[7067, 5112]
58	[116, 117]	2099	[3384, 3186]	4140	[5473, 3249]	6181	[7068, 2214]
59	[118, 119]	2100	[3385, 3386]	4141	[5474, 2924]	6182	[2212, 2093]
60	[120, 121]	2101	[3387, 3388]	4142	[5475, 1579]	6183	[6571, 7069]
61	[122, 123]	2102	[3389, 1185]	4143	[5476, 255]	6184	[7070, 4905]
62	[124, 125]	2103	[3390, 3391]	4144	[2916, 286]	6185	[7071, 5120]
63	[126, 127]	2104	[3392, 3393]	4145	[5477, 3369]	6186	[7072, 7073]
64	[128, 129]	2105	[3394, 3395]	4146	[5478, 3568]	6187	[7074, 5194]
65	[130, 131]	2106	[1518, 3396]	4147	[3940, 1485]	6188	[1869, 5144]
66	[132, 133]	2107	[3397, 3398]	4148	[5479, 3043]	6189	[4780, 1814]
67	[134, 135]	2108	[3399, 3400]	4149	[5480, 1148]	6190	[7075, 5016]
68	[136, 137]	2109	[3401, 3402]	4150	[1168, 5481]	6191	[7076, 4917]
69	[138, 139]	2110	[2983, 3403]	4151	[5482, 3136]	6192	[5445, 7073]
70	[140, 141]	2111	[3404, 350]	4152	[5483, 3860]	6193	[7077, 5441]
71	[142, 143]	2112	[3405, 3406]	4153	[293, 3507]	6194	[4473, 4129]
72	[144, 145]	2113	[3407, 3305]	4154	[5484, 3816]	6195	[7078, 7079]
73	[146, 147]	2114	[3408, 3409]	4155	[3287, 3240]	6196	[7080, 6783]
74	[148, 149]	2115	[2911, 3410]	4156	[313, 5485]	6197	[7081, 2639]
75	[150, 151]	2116	[3411, 3412]	4157	[3114, 1388]	6198	[188, 1877]
76	[152, 153]	2117	[3413, 3414]	4158	[3791, 2808]	6199	[7082, 7083]
77	[154, 155]	2118	[3127, 3415]	4159	[5486, 5487]	6200	[4576, 6775]
78	[156, 157]	2119	[3416, 3379]	4160	[5488, 4098]	6201	[7084, 2094]
79	[158, 159]	2120	[3417, 1189]	4161	[3852, 1085]	6202	[6636, 6862]
80	[160, 161]	2121	[3418, 3332]	4162	[5489, 3890]	6203	[7085, 1966]
81	[162, 163]	2122	[74, 3419]	4163	[5490, 3785]	6204	[4732, 2133]
82	[164, 165]	2123	[3420, 1164]	4164	[5491, 1102]	6205	[6540, 4730]
83	[166, 167]	2124	[3421, 1298]	4165	[3268, 5476]	6206	[7086, 1756]
84	[168, 169]	2125	[1303, 3422]	4166	[5492, 3729]	6207	[7087, 706]
85	[170, 171]	2126	[3423, 274]	4167	[5493, 5494]	6208	[7088, 2306]
86	[172, 173]	2127	[3424, 3425]	4168	[998, 415]	6209	[2019, 2641]

87	[174, 175]	2128	[3426, 3427]	4169	[5495, 3864]	6210	[7089, 512]
88	[176, 177]	2129	[3428, 3429]	4170	[5496, 5497]	6211	[7090, 7091]
89	[178, 179]	2130	[3312, 3076]	4171	[3938, 3736]	6212	[7092, 4485]
90	[180, 181]	2131	[3430, 3431]	4172	[5498, 3725]	6213	[620, 6899]
91	[182, 183]	2132	[3432, 1461]	4173	[5499, 3487]	6214	[7093, 2139]
92	[184, 185]	2133	[3433, 3334]	4174	[5500, 379]	6215	[7094, 2338]
93	[186, 141]	2134	[1055, 3434]	4175	[339, 5501]	6216	[4466, 7067]
94	[187, 188]	2135	[3435, 1426]	4176	[3524, 5502]	6217	[7095, 2749]
95	[189, 190]	2136	[3436, 1355]	4177	[5503, 403]	6218	[7096, 4234]
96	[191, 192]	2137	[3437, 3438]	4178	[5504, 19]	6219	[2038, 2087]
97	[193, 194]	2138	[3439, 3440]	4179	[1367, 1160]	6220	[5438, 4368]
98	[195, 196]	2139	[3441, 3442]	4180	[3446, 966]	6221	[7097, 5025]
99	[197, 198]	2140	[3443, 3444]	4181	[5505, 5506]	6222	[7098, 2099]
100	[199, 200]	2141	[252, 3445]	4182	[1157, 1623]	6223	[7099, 2518]
101	[201, 202]	2142	[930, 3446]	4183	[5507, 1333]	6224	[7100, 7101]
102	[203, 204]	2143	[1640, 3045]	4184	[5508, 3687]	6225	[4458, 1905]
103	[205, 9]	2144	[3447, 3448]	4185	[5509, 940]	6226	[7102, 4147]
104	[206, 207]	2145	[3449, 956]	4186	[5510, 1259]	6227	[5311, 7103]
105	[208, 209]	2146	[3450, 3451]	4187	[5511, 2884]	6228	[7104, 4317]
106	[210, 211]	2147	[3016, 3452]	4188	[3762, 4032]	6229	[5344, 489]
107	[212, 213]	2148	[3453, 3221]	4189	[4072, 5455]	6230	[7105, 6636]
108	[214, 215]	2149	[1544, 3454]	4190	[1027, 5512]	6231	[7106, 2532]
109	[216, 217]	2150	[3403, 3455]	4191	[2762, 1173]	6232	[7107, 4759]
110	[218, 219]	2151	[3456, 3457]	4192	[3846, 1166]	6233	[5437, 5286]
111	[220, 221]	2152	[3164, 3458]	4193	[5513, 5514]	6234	[7108, 2684]
112	[222, 223]	2153	[3459, 3460]	4194	[5515, 1582]	6235	[7109, 5333]
113	[224, 225]	2154	[3461, 121]	4195	[5516, 3190]	6236	[7110, 5296]
114	[226, 227]	2155	[3462, 3463]	4196	[5517, 1071]	6237	[7111, 2260]
115	[228, 229]	2156	[3304, 3235]	4197	[5518, 5519]	6238	[7112, 719]
116	[230, 231]	2157	[3464, 3465]	4198	[5520, 5521]	6239	[4374, 7113]
117	[232, 233]	2158	[397, 3466]	4199	[5522, 5523]	6240	[7114, 6871]
118	[234, 235]	2159	[3467, 3468]	4200	[5524, 5525]	6241	[7115, 4918]
119	[236, 237]	2160	[1206, 3469]	4201	[5526, 1303]	6242	[4142, 2684]
120	[238, 239]	2161	[1208, 1455]	4202	[4022, 4052]	6243	[6874, 6921]
121	[240, 241]	2162	[3470, 3471]	4203	[5527, 3788]	6244	[7116, 2133]
122	[242, 243]	2163	[3472, 3473]	4204	[385, 2839]	6245	[4185, 2599]
123	[244, 44]	2164	[3474, 3475]	4205	[5528, 3307]	6246	[7117, 7118]
124	[245, 246]	2165	[3476, 3307]	4206	[117, 419]	6247	[7119, 6618]
125	[247, 248]	2166	[1406, 3366]	4207	[5529, 3290]	6248	[7120, 788]
126	[249, 250]	2167	[3477, 3478]	4208	[5530, 2912]	6249	[1956, 4170]
127	[251, 252]	2168	[3479, 3363]	4209	[5531, 930]	6250	[7121, 5326]
128	[253, 254]	2169	[3480, 2956]	4210	[5532, 978]	6251	[6626, 2082]
129	[255, 256]	2170	[3481, 3482]	4211	[5533, 3128]	6252	[7122, 2347]
130	[257, 258]	2171	[3069, 3483]	4212	[1202, 1103]	6253	[5399, 2072]

131	[259, 260]	2172	[3484, 3148]	4213	[5534, 3392]	6254	[7101, 5053]
132	[261, 262]	2173	[3485, 3476]	4214	[5535, 3392]	6255	[7123, 4373]
133	[263, 264]	2174	[2809, 3486]	4215	[1025, 3626]	6256	[6862, 7124]
134	[265, 266]	2175	[3487, 3488]	4216	[5536, 1091]	6257	[5231, 873]
135	[267, 268]	2176	[3489, 3490]	4217	[5537, 3732]	6258	[860, 4130]
136	[269, 270]	2177	[1136, 3491]	4218	[5538, 4111]	6259	[5319, 4237]
137	[76, 271]	2178	[3492, 2918]	4219	[1331, 4011]	6260	[2566, 897]
138	[272, 273]	2179	[3493, 1379]	4220	[3035, 3766]	6261	[7125, 501]
139	[274, 275]	2180	[1349, 1659]	4221	[5539, 1002]	6262	[2664, 6559]
140	[276, 277]	2181	[3494, 3402]	4222	[5540, 5541]	6263	[7126, 2005]
141	[278, 279]	2182	[3495, 3130]	4223	[5542, 5543]	6264	[2025, 7127]
142	[280, 281]	2183	[3496, 3497]	4224	[5544, 1282]	6265	[2380, 5227]
143	[282, 283]	2184	[3498, 75]	4225	[5545, 3187]	6266	[7128, 2057]
144	[284, 285]	2185	[295, 3048]	4226	[4088, 5523]	6267	[1894, 4849]
145	[286, 287]	2186	[3499, 3278]	4227	[5546, 257]	6268	[4339, 1671]
146	[288, 289]	2187	[1562, 2854]	4228	[5547, 5548]	6269	[7129, 5265]
147	[290, 291]	2188	[3500, 1422]	4229	[5549, 1302]	6270	[2505, 4802]
148	[292, 293]	2189	[1524, 3501]	4230	[5550, 3293]	6271	[2581, 6663]
149	[294, 295]	2190	[321, 3502]	4231	[5551, 5552]	6272	[654, 4712]
150	[296, 297]	2191	[3503, 1480]	4232	[5553, 5554]	6273	[7130, 2100]
151	[298, 299]	2192	[3504, 3505]	4233	[5555, 4063]	6274	[7131, 4435]
152	[300, 279]	2193	[3506, 3507]	4234	[5556, 5557]	6275	[1827, 7132]
153	[30, 301]	2194	[3508, 3509]	4235	[5558, 3179]	6276	[7133, 4928]
154	[302, 303]	2195	[3348, 3510]	4236	[5559, 3607]	6277	[7134, 4917]
155	[304, 305]	2196	[3511, 3512]	4237	[5560, 3820]	6278	[1680, 2691]
156	[306, 307]	2197	[3150, 3039]	4238	[5561, 5562]	6279	[7135, 2352]
157	[308, 309]	2198	[1129, 3513]	4239	[5563, 3934]	6280	[6576, 2597]
158	[310, 311]	2199	[3514, 1278]	4240	[3444, 5492]	6281	[2286, 2346]
159	[312, 313]	2200	[3515, 3516]	4241	[3790, 5564]	6282	[1837, 710]
160	[314, 315]	2201	[1565, 3517]	4242	[5565, 5566]	6283	[2253, 4615]
161	[316, 317]	2202	[3234, 3518]	4243	[1645, 3115]	6284	[7136, 4130]
162	[318, 319]	2203	[1521, 3519]	4244	[3072, 5567]	6285	[6607, 2475]
163	[320, 321]	2204	[3520, 3521]	4245	[5568, 3932]	6286	[7137, 4949]
164	[322, 323]	2205	[3522, 298]	4246	[5569, 3754]	6287	[7073, 1985]
165	[324, 325]	2206	[3434, 3523]	4247	[5570, 5571]	6288	[7138, 6806]
166	[326, 327]	2207	[2874, 3524]	4248	[5572, 5573]	6289	[7139, 4515]
167	[328, 329]	2208	[3525, 3526]	4249	[258, 3532]	6290	[7034, 4883]
168	[330, 331]	2209	[3527, 1398]	4250	[5574, 3400]	6291	[7140, 6964]
169	[332, 333]	2210	[1653, 3528]	4251	[5575, 3582]	6292	[4959, 1937]
170	[334, 335]	2211	[3529, 3530]	4252	[5576, 3164]	6293	[7141, 1780]
171	[336, 337]	2212	[3531, 3075]	4253	[3455, 3119]	6294	[7142, 2714]
172	[338, 339]	2213	[3532, 3533]	4254	[3699, 3740]	6295	[7143, 6717]
173	[340, 341]	2214	[3120, 3494]	4255	[5577, 3742]	6296	[7144, 6671]
174	[342, 343]	2215	[3060, 2946]	4256	[5506, 3904]	6297	[7145, 4852]

175	[344, 345]	2216	[3534, 1109]	4257	[5578, 3017]	6298	[1739, 4919]
176	[346, 347]	2217	[3535, 437]	4258	[5579, 5477]	6299	[4653, 5404]
177	[348, 349]	2218	[3536, 3425]	4259	[5580, 5581]	6300	[7146, 594]
178	[350, 351]	2219	[3537, 3538]	4260	[471, 5582]	6301	[7147, 4514]
179	[352, 353]	2220	[3539, 308]	4261	[3034, 5583]	6302	[7148, 5163]
180	[354, 355]	2221	[3540, 3541]	4262	[5584, 1655]	6303	[7149, 1875]
181	[356, 357]	2222	[3542, 3543]	4263	[3887, 5585]	6304	[7150, 4660]
182	[358, 359]	2223	[1481, 1292]	4264	[5586, 3502]	6305	[7079, 4258]
183	[360, 361]	2224	[3122, 470]	4265	[5587, 1321]	6306	[7151, 1805]
184	[362, 363]	2225	[3544, 3398]	4266	[1520, 3063]	6307	[7152, 7134]
185	[364, 365]	2226	[3545, 1411]	4267	[5588, 4046]	6308	[7153, 5328]
186	[366, 367]	2227	[3546, 1413]	4268	[5589, 2952]	6309	[7154, 1882]
187	[368, 369]	2228	[3547, 2922]	4269	[5590, 1178]	6310	[7155, 6517]
188	[370, 371]	2229	[3548, 2872]	4270	[5591, 346]	6311	[5073, 2352]
189	[372, 373]	2230	[3549, 2835]	4271	[5592, 5451]	6312	[7156, 502]
190	[374, 375]	2231	[3550, 3393]	4272	[3039, 26]	6313	[7157, 4991]
191	[376, 377]	2232	[1148, 3551]	4273	[5593, 1011]	6314	[7158, 4836]
192	[378, 379]	2233	[3552, 3454]	4274	[1118, 3611]	6315	[6838, 2606]
193	[380, 381]	2234	[361, 3553]	4275	[5594, 2789]	6316	[803, 5006]
194	[382, 383]	2235	[2790, 3061]	4276	[5595, 932]	6317	[7159, 2488]
195	[384, 385]	2236	[3554, 3308]	4277	[5596, 5597]	6318	[7160, 5428]
196	[386, 387]	2237	[3555, 3556]	4278	[5598, 3672]	6319	[7161, 6614]
197	[388, 389]	2238	[3557, 3110]	4279	[5599, 5600]	6320	[7006, 617]
198	[390, 391]	2239	[3558, 3559]	4280	[5601, 3983]	6321	[7162, 2724]
199	[392, 393]	2240	[3560, 1325]	4281	[5602, 3054]	6322	[1979, 794]
200	[394, 395]	2241	[1283, 370]	4282	[5603, 5604]	6323	[1744, 6772]
201	[396, 397]	2242	[3561, 1107]	4283	[5605, 5606]	6324	[6842, 6993]
202	[398, 28]	2243	[3562, 442]	4284	[5607, 3016]	6325	[1940, 4465]
203	[399, 400]	2244	[3563, 1147]	4285	[3681, 5608]	6326	[1746, 7091]
204	[401, 402]	2245	[1249, 3564]	4286	[5609, 5610]	6327	[793, 4377]
205	[403, 404]	2246	[3565, 1337]	4287	[5611, 933]	6328	[7163, 4447]
206	[405, 406]	2247	[3566, 1232]	4288	[5612, 3985]	6329	[7164, 6657]
207	[407, 408]	2248	[3567, 1013]	4289	[5613, 3443]	6330	[7165, 6711]
208	[409, 410]	2249	[3568, 2760]	4290	[3910, 1584]	6331	[4700, 193]
209	[411, 412]	2250	[3569, 294]	4291	[5614, 954]	6332	[7166, 5001]
210	[413, 414]	2251	[3570, 2945]	4292	[5615, 3377]	6333	[6922, 5311]
211	[415, 416]	2252	[3571, 1518]	4293	[3720, 4086]	6334	[7167, 2221]
212	[417, 418]	2253	[1591, 979]	4294	[5616, 5617]	6335	[7168, 4176]
213	[419, 420]	2254	[3572, 3381]	4295	[3843, 5618]	6336	[4192, 7169]
214	[421, 422]	2255	[3573, 3574]	4296	[5619, 1125]	6337	[4245, 6690]
215	[423, 424]	2256	[3575, 3576]	4297	[1002, 5514]	6338	[7170, 4813]
216	[425, 426]	2257	[3577, 3578]	4298	[5620, 3191]	6339	[5184, 1812]
217	[427, 428]	2258	[3271, 3541]	4299	[3041, 1169]	6340	[6530, 5274]
218	[429, 430]	2259	[3579, 3580]	4300	[5621, 3555]	6341	[7171, 1895]

219	[431, 432]	2260	[3581, 3582]	4301	[5622, 416]	6342	[7036, 6643]
220	[433, 434]	2261	[3062, 3583]	4302	[5623, 3373]	6343	[1713, 4734]
221	[435, 340]	2262	[3584, 1281]	4303	[959, 2866]	6344	[4625, 4623]
222	[436, 437]	2263	[3585, 3586]	4304	[976, 4010]	6345	[7172, 5135]
223	[438, 439]	2264	[3587, 3588]	4305	[5624, 3585]	6346	[7173, 746]
224	[440, 441]	2265	[3589, 3590]	4306	[5625, 3717]	6347	[1698, 667]
225	[442, 443]	2266	[3591, 2788]	4307	[5626, 3849]	6348	[4316, 5103]
226	[444, 445]	2267	[3592, 3593]	4308	[323, 944]	6349	[6997, 7036]
227	[446, 447]	2268	[3594, 3595]	4309	[3286, 5627]	6350	[7174, 2353]
228	[448, 449]	2269	[3596, 3597]	4310	[2819, 3426]	6351	[7175, 599]
229	[450, 451]	2270	[3598, 1111]	4311	[5628, 270]	6352	[723, 2469]
230	[452, 453]	2271	[3599, 3600]	4312	[5629, 3185]	6353	[532, 5238]
231	[454, 455]	2272	[1190, 2812]	4313	[2761, 3005]	6354	[7176, 1980]
232	[456, 457]	2273	[3601, 3602]	4314	[5630, 3769]	6355	[4786, 626]
233	[458, 453]	2274	[3603, 3244]	4315	[2774, 3028]	6356	[7177, 5151]
234	[459, 460]	2275	[2987, 1501]	4316	[3877, 3249]	6357	[7178, 7048]
235	[461, 462]	2276	[111, 3604]	4317	[3621, 1407]	6358	[4536, 5361]
236	[463, 464]	2277	[3605, 1339]	4318	[5631, 1262]	6359	[7179, 5016]
237	[465, 466]	2278	[3606, 3325]	4319	[5632, 5633]	6360	[7180, 2647]
238	[404, 467]	2279	[3607, 3608]	4320	[3215, 5634]	6361	[4941, 2702]
239	[468, 469]	2280	[3609, 1365]	4321	[5635, 5572]	6362	[7181, 2250]
240	[470, 471]	2281	[3610, 3031]	4322	[5600, 3343]	6363	[7182, 839]
241	[472, 473]	2282	[3611, 465]	4323	[5636, 5637]	6364	[7183, 7184]
242	[474, 475]	2283	[3612, 3613]	4324	[5638, 5570]	6365	[7185, 6669]
243	[476, 477]	2284	[2881, 2757]	4325	[3053, 5600]	6366	[2043, 6936]
244	[478, 479]	2285	[3614, 3615]	4326	[5639, 2924]	6367	[7186, 5375]
245	[480, 481]	2286	[3616, 1307]	4327	[5640, 5641]	6368	[7187, 140]
246	[482, 483]	2287	[3617, 3618]	4328	[2928, 983]	6369	[7188, 4869]
247	[484, 382]	2288	[3619, 3620]	4329	[5642, 5636]	6370	[6964, 2583]
248	[485, 486]	2289	[2817, 3621]	4330	[984, 5638]	6371	[60, 5355]
249	[487, 488]	2290	[3516, 3622]	4331	[5643, 5644]	6372	[7189, 2646]
250	[489, 490]	2291	[3623, 3624]	4332	[3095, 3978]	6373	[2551, 2569]
251	[491, 492]	2292	[3625, 1067]	4333	[5571, 5645]	6374	[2049, 5181]
252	[493, 494]	2293	[2913, 1284]	4334	[1037, 2935]	6375	[4363, 4799]
253	[495, 51]	2294	[3626, 3627]	4335	[335, 1235]	6376	[7190, 4528]
254	[496, 497]	2295	[3628, 3421]	4336	[3374, 5646]	6377	[4332, 6618]
255	[498, 499]	2296	[3629, 3630]	4337	[3429, 5538]	6378	[7191, 6756]
256	[500, 501]	2297	[3631, 1540]	4338	[5647, 1295]	6379	[2003, 5081]
257	[502, 503]	2298	[3632, 1542]	4339	[5648, 2771]	6380	[7192, 4374]
258	[504, 505]	2299	[3414, 3327]	4340	[5649, 1375]	6381	[7193, 2023]
259	[506, 507]	2300	[1575, 3633]	4341	[5650, 3777]	6382	[7194, 4975]
260	[508, 509]	2301	[3634, 3635]	4342	[5651, 5512]	6383	[7195, 6967]
261	[510, 511]	2302	[3636, 1377]	4343	[5652, 5609]	6384	[7196, 4551]
262	[512, 513]	2303	[3637, 3318]	4344	[5653, 1211]	6385	[4220, 2625]

263	[175, 514]	2304	[483, 3638]	4345	[5654, 1561]	6386	[5140, 4771]
264	[515, 516]	2305	[3574, 3639]	4346	[5655, 3573]	6387	[2670, 2]
265	[517, 518]	2306	[3640, 1493]	4347	[5656, 5657]	6388	[721, 134]
266	[519, 520]	2307	[2846, 3641]	4348	[5658, 3100]	6389	[7197, 5034]
267	[521, 522]	2308	[3642, 1261]	4349	[5659, 3111]	6390	[7198, 4282]
268	[523, 9]	2309	[102, 1517]	4350	[2989, 283]	6391	[7199, 2041]
269	[524, 525]	2310	[3643, 3644]	4351	[5660, 5661]	6392	[2205, 174]
270	[526, 527]	2311	[3645, 1395]	4352	[5662, 5663]	6393	[2149, 688]
271	[151, 528]	2312	[3646, 3647]	4353	[3350, 5664]	6394	[4320, 5008]
272	[529, 530]	2313	[3648, 1077]	4354	[3288, 407]	6395	[7200, 4581]
273	[531, 532]	2314	[3649, 468]	4355	[5665, 3206]	6396	[2709, 2287]
274	[533, 534]	2315	[3314, 3650]	4356	[5666, 3608]	6397	[6733, 7201]
275	[535, 536]	2316	[3651, 3652]	4357	[5667, 3620]	6398	[7202, 5413]
276	[537, 538]	2317	[3653, 316]	4358	[289, 1431]	6399	[7203, 5299]
277	[539, 540]	2318	[90, 3654]	4359	[1098, 3813]	6400	[4587, 5304]
278	[541, 542]	2319	[3655, 3656]	4360	[3750, 4081]	6401	[7204, 1823]
279	[543, 544]	2320	[1553, 1448]	4361	[3232, 4017]	6402	[7205, 6741]
280	[530, 545]	2321	[3657, 3427]	4362	[305, 3439]	6403	[7206, 4860]
281	[546, 547]	2322	[3658, 1274]	4363	[3159, 5668]	6404	[7207, 2597]
282	[548, 549]	2323	[3659, 410]	4364	[250, 3606]	6405	[505, 7208]
283	[550, 551]	2324	[275, 1465]	4365	[281, 1101]	6406	[7209, 7210]
284	[552, 553]	2325	[3660, 309]	4366	[5669, 3190]	6407	[7211, 4257]
285	[554, 555]	2326	[3103, 3661]	4367	[5670, 5568]	6408	[4402, 1790]
286	[556, 557]	2327	[1381, 3662]	4368	[5671, 3600]	6409	[5013, 6729]
287	[558, 559]	2328	[1372, 3663]	4369	[5672, 256]	6410	[7212, 6743]
288	[560, 561]	2329	[3664, 1045]	4370	[3475, 1490]	6411	[6796, 4401]
289	[562, 563]	2330	[3665, 2863]	4371	[5673, 3649]	6412	[2655, 6871]
290	[564, 565]	2331	[3666, 3667]	4372	[5674, 3313]	6413	[7213, 6994]
291	[566, 567]	2332	[406, 3668]	4373	[3006, 5675]	6414	[557, 502]
292	[568, 569]	2333	[3669, 2758]	4374	[5676, 425]	6415	[2274, 7214]
293	[570, 571]	2334	[3670, 100]	4375	[1180, 3693]	6416	[4901, 7215]
294	[572, 573]	2335	[3671, 952]	4376	[1094, 982]	6417	[4933, 2200]
295	[574, 575]	2336	[3635, 3672]	4377	[5677, 2820]	6418	[7216, 891]
296	[576, 577]	2337	[2922, 3673]	4378	[1466, 5661]	6419	[2693, 5277]
297	[578, 579]	2338	[3674, 3675]	4379	[5678, 5679]	6420	[7217, 6771]
298	[580, 581]	2339	[3676, 3677]	4380	[1009, 5680]	6421	[4693, 4838]
299	[582, 583]	2340	[3678, 1543]	4381	[5681, 3081]	6422	[7218, 6609]
300	[584, 585]	2341	[3641, 1089]	4382	[5682, 1376]	6423	[7219, 1748]
301	[586, 587]	2342	[311, 3679]	4383	[938, 3301]	6424	[5155, 4587]
302	[588, 589]	2343	[3680, 923]	4384	[3994, 376]	6425	[2261, 4675]
303	[590, 591]	2344	[113, 3681]	4385	[5683, 2948]	6426	[7220, 2478]
304	[592, 593]	2345	[1251, 3025]	4386	[5684, 5561]	6427	[7221, 6997]
305	[594, 595]	2346	[3615, 2826]	4387	[5685, 3154]	6428	[7222, 2117]
306	[596, 597]	2347	[3682, 1525]	4388	[5686, 1195]	6429	[7223, 7098]

307	[598, 599]	2348	[3683, 3684]	4389	[1047, 5687]	6430	[734, 5281]
308	[600, 601]	2349	[3685, 3686]	4390	[3911, 2923]	6431	[50, 5435]
309	[602, 603]	2350	[3687, 3573]	4391	[5501, 5688]	6432	[4791, 5031]
310	[604, 605]	2351	[3688, 3689]	4392	[5689, 3752]	6433	[7224, 2313]
311	[606, 607]	2352	[3690, 2928]	4393	[5453, 1470]	6434	[7225, 694]
312	[608, 609]	2353	[3691, 3052]	4394	[3888, 331]	6435	[7226, 5433]
313	[610, 611]	2354	[3692, 3693]	4395	[5690, 4094]	6436	[2712, 4719]
314	[612, 613]	2355	[317, 3694]	4396	[5691, 482]	6437	[6675, 5339]
315	[614, 556]	2356	[3695, 1414]	4397	[5692, 5572]	6438	[4202, 1782]
316	[615, 616]	2357	[3696, 1363]	4398	[5693, 5575]	6439	[141, 867]
317	[617, 618]	2358	[3697, 3653]	4399	[3756, 1156]	6440	[4602, 2748]
318	[619, 620]	2359	[3698, 3699]	4400	[3837, 3643]	6441	[638, 728]
319	[621, 243]	2360	[3700, 3701]	4401	[5694, 5695]	6442	[7227, 668]
320	[622, 623]	2361	[3702, 1075]	4402	[5696, 3286]	6443	[7228, 6775]
321	[624, 625]	2362	[3703, 3230]	4403	[5697, 2934]	6444	[7229, 6874]
322	[626, 627]	2363	[3704, 2854]	4404	[5698, 1642]	6445	[7230, 4332]
323	[569, 628]	2364	[3705, 3706]	4405	[3701, 2775]	6446	[634, 1799]
324	[629, 630]	2365	[1363, 3707]	4406	[5699, 3873]	6447	[7231, 4809]
325	[631, 632]	2366	[3708, 3664]	4407	[393, 3114]	6448	[7232, 773]
326	[633, 634]	2367	[3478, 3709]	4408	[125, 409]	6449	[7233, 2095]
327	[635, 636]	2368	[3274, 3710]	4409	[5700, 5701]	6450	[7234, 2132]
328	[637, 638]	2369	[3402, 3334]	4410	[4039, 3381]	6451	[7184, 154]
329	[639, 640]	2370	[3711, 3712]	4411	[5702, 5703]	6452	[7235, 7124]
330	[641, 642]	2371	[3486, 398]	4412	[5704, 3269]	6453	[7236, 2491]
331	[618, 643]	2372	[3297, 3713]	4413	[451, 3534]	6454	[1802, 568]
332	[644, 645]	2373	[3714, 3614]	4414	[5664, 5705]	6455	[7237, 7214]
333	[646, 647]	2374	[1500, 3616]	4415	[3001, 5706]	6456	[7238, 4780]
334	[648, 649]	2375	[945, 3715]	4416	[5707, 5708]	6457	[2687, 1841]
335	[650, 651]	2376	[3716, 1428]	4417	[5709, 5710]	6458	[7239, 4673]
336	[652, 151]	2377	[3717, 1556]	4418	[3834, 1287]	6459	[7124, 4431]
337	[653, 654]	2378	[3718, 1010]	4419	[4096, 5711]	6460	[2073, 663]
338	[655, 656]	2379	[3719, 3720]	4420	[5712, 3228]	6461	[2427, 5018]
339	[657, 658]	2380	[3152, 272]	4421	[3167, 1435]	6462	[2653, 7018]
340	[659, 660]	2381	[3721, 3722]	4422	[5713, 2871]	6463	[4180, 2512]
341	[661, 662]	2382	[3723, 3724]	4423	[5714, 5639]	6464	[7240, 6612]
342	[663, 664]	2383	[3725, 3726]	4424	[5715, 5716]	6465	[7241, 2116]
343	[665, 666]	2384	[3727, 3728]	4425	[1539, 1636]	6466	[7242, 7215]
344	[667, 668]	2385	[3729, 3730]	4426	[5717, 3445]	6467	[4883, 5048]
345	[669, 670]	2386	[3731, 1001]	4427	[5718, 1192]	6468	[7243, 218]
346	[671, 672]	2387	[3732, 3592]	4428	[1159, 3331]	6469	[6664, 4974]
347	[673, 674]	2388	[3654, 3733]	4429	[5719, 3143]	6470	[7244, 1993]
348	[675, 676]	2389	[3734, 3735]	4430	[5720, 3929]	6471	[5056, 4507]
349	[677, 678]	2390	[1070, 3544]	4431	[5721, 1623]	6472	[7245, 1977]
350	[679, 680]	2391	[3675, 2902]	4432	[3530, 3292]	6473	[6888, 7246]

351	[681, 682]	2392	[3736, 2958]	4433	[1023, 5722]	6474	[7247, 2302]
352	[683, 684]	2393	[1476, 3737]	4434	[5723, 3151]	6475	[7248, 2430]
353	[685, 686]	2394	[999, 3355]	4435	[5724, 5725]	6476	[7249, 5438]
354	[687, 688]	2395	[3738, 120]	4436	[5726, 423]	6477	[7250, 4720]
355	[689, 690]	2396	[3129, 3739]	4437	[24, 3361]	6478	[7251, 2164]
356	[691, 692]	2397	[3740, 3741]	4438	[3398, 389]	6479	[7252, 167]
357	[693, 149]	2398	[3742, 3743]	4439	[3131, 5727]	6480	[173, 7138]
358	[694, 695]	2399	[3744, 3745]	4440	[5728, 949]	6481	[7253, 5098]
359	[696, 697]	2400	[3746, 3747]	4441	[3679, 1395]	6482	[7000, 2700]
360	[698, 699]	2401	[3748, 1267]	4442	[1019, 1324]	6483	[1765, 665]
361	[700, 701]	2402	[3749, 3750]	4443	[5729, 5730]	6484	[712, 4616]
362	[583, 702]	2403	[1631, 1202]	4444	[3014, 1034]	6485	[7254, 4873]
363	[703, 704]	2404	[1402, 3751]	4445	[5731, 5732]	6486	[7255, 7049]
364	[705, 706]	2405	[3752, 1409]	4446	[5733, 5734]	6487	[7256, 905]
365	[707, 708]	2406	[3753, 1628]	4447	[5735, 3357]	6488	[7257, 764]
366	[709, 710]	2407	[3754, 2825]	4448	[5736, 2772]	6489	[233, 2353]
367	[711, 712]	2408	[3755, 3756]	4449	[5737, 945]	6490	[7258, 4406]
368	[713, 714]	2409	[1341, 3757]	4450	[3283, 3817]	6491	[1996, 7259]
369	[715, 716]	2410	[3758, 3759]	4451	[5738, 5739]	6492	[5038, 6547]
370	[717, 718]	2411	[3760, 1495]	4452	[5740, 5741]	6493	[6855, 6584]
371	[719, 655]	2412	[3761, 2845]	4453	[5742, 1042]	6494	[7260, 2705]
372	[720, 721]	2413	[319, 1137]	4454	[5743, 3423]	6495	[7261, 4689]
373	[722, 723]	2414	[3431, 1198]	4455	[3995, 5744]	6496	[7262, 4236]
374	[724, 615]	2415	[3266, 3762]	4456	[1404, 5745]	6497	[1728, 5154]
375	[725, 726]	2416	[3763, 286]	4457	[3454, 3742]	6498	[7263, 4377]
376	[727, 726]	2417	[3764, 3562]	4458	[5746, 3726]	6499	[5074, 2402]
377	[728, 45]	2418	[3765, 3766]	4459	[2927, 985]	6500	[7264, 2148]
378	[729, 730]	2419	[3767, 954]	4460	[2925, 2931]	6501	[581, 4392]
379	[731, 711]	2420	[3768, 1380]	4461	[3526, 5747]	6502	[7265, 4876]
380	[732, 33]	2421	[3031, 3266]	4462	[5644, 5748]	6503	[7266, 4521]
381	[733, 734]	2422	[3769, 3770]	4463	[5749, 5642]	6504	[7267, 7113]
382	[735, 736]	2423	[3771, 3772]	4464	[5750, 939]	6505	[7268, 5337]
383	[737, 738]	2424	[1253, 1620]	4465	[5751, 5752]	6506	[7269, 5121]
384	[739, 740]	2425	[3773, 3774]	4466	[5753, 3609]	6507	[1800, 4777]
385	[741, 742]	2426	[3775, 3776]	4467	[5754, 979]	6508	[4994, 6639]
386	[743, 744]	2427	[1076, 1295]	4468	[5755, 5756]	6509	[7270, 4651]
387	[745, 746]	2428	[3777, 2953]	4469	[5757, 3901]	6510	[7271, 7016]
388	[718, 747]	2429	[2778, 3778]	4470	[5758, 5759]	6511	[7272, 7259]
389	[748, 749]	2430	[3779, 3252]	4471	[3174, 3505]	6512	[7273, 759]
390	[750, 751]	2431	[3780, 3299]	4472	[375, 5760]	6513	[7274, 1943]
391	[752, 753]	2432	[3781, 1482]	4473	[5761, 5762]	6514	[7275, 150]
392	[754, 755]	2433	[1446, 3782]	4474	[5763, 1602]	6515	[7276, 7138]
393	[756, 757]	2434	[3728, 1488]	4475	[5764, 1492]	6516	[7277, 4687]
394	[758, 759]	2435	[3783, 3180]	4476	[1013, 2843]	6517	[7278, 5607]

395	[760, 761]	2436	[928, 2917]	4477	[5581, 5575]	6518	[7279, 5888]
396	[762, 763]	2437	[3784, 3785]	4478	[5765, 1474]	6519	[7280, 942]
397	[764, 765]	2438	[3786, 101]	4479	[5766, 1573]	6520	[6351, 1655]
398	[766, 767]	2439	[3787, 3788]	4480	[5767, 3967]	6521	[7281, 1128]
399	[768, 769]	2440	[3789, 3790]	4481	[5768, 5769]	6522	[7282, 3272]
400	[770, 771]	2441	[3543, 3791]	4482	[1555, 5592]	6523	[7283, 5935]
401	[54, 772]	2442	[2954, 93]	4483	[5770, 5538]	6524	[7284, 6363]
402	[773, 774]	2443	[3792, 3364]	4484	[5771, 3662]	6525	[7285, 271]
403	[775, 776]	2444	[3793, 1408]	4485	[5772, 3727]	6526	[7286, 1547]
404	[777, 778]	2445	[3794, 3795]	4486	[447, 1329]	6527	[7287, 5490]
405	[779, 780]	2446	[3796, 351]	4487	[3947, 5773]	6528	[7288, 3050]
406	[781, 782]	2447	[3797, 3798]	4488	[3819, 289]	6529	[7289, 3116]
407	[783, 784]	2448	[1125, 3702]	4489	[5774, 458]	6530	[7290, 3328]
408	[785, 225]	2449	[3799, 3800]	4490	[5775, 5776]	6531	[7291, 3669]
409	[786, 787]	2450	[3801, 3802]	4491	[5777, 3828]	6532	[7292, 7293]
410	[788, 789]	2451	[3803, 3574]	4492	[3125, 5778]	6533	[3850, 5615]
411	[790, 791]	2452	[3804, 3642]	4493	[5779, 3437]	6534	[7294, 927]
412	[792, 793]	2453	[3805, 1177]	4494	[5780, 1088]	6535	[7295, 1049]
413	[794, 705]	2454	[3806, 1179]	4495	[5521, 3876]	6536	[1648, 3562]
414	[771, 707]	2455	[1051, 3807]	4496	[5781, 5674]	6537	[3624, 1176]
415	[795, 796]	2456	[3808, 3809]	4497	[3668, 3399]	6538	[3361, 3268]
416	[797, 798]	2457	[1142, 3090]	4498	[5782, 1563]	6539	[3895, 2780]
417	[645, 799]	2458	[3810, 3811]	4499	[2864, 1265]	6540	[7296, 2862]
418	[800, 801]	2459	[3812, 1603]	4500	[5783, 5776]	6541	[5695, 3955]
419	[802, 803]	2460	[3813, 448]	4501	[5747, 5784]	6542	[467, 5493]
420	[804, 805]	2461	[3814, 3815]	4502	[5785, 477]	6543	[7297, 3668]
421	[806, 807]	2462	[3816, 3647]	4503	[5786, 5787]	6544	[3608, 3826]
422	[808, 809]	2463	[3817, 3354]	4504	[1387, 5788]	6545	[7298, 3801]
423	[810, 646]	2464	[3818, 3819]	4505	[3747, 5789]	6546	[3844, 1040]
424	[811, 216]	2465	[3303, 85]	4506	[5790, 3484]	6547	[7299, 5988]
425	[573, 812]	2466	[3820, 3821]	4507	[5791, 3535]	6548	[7300, 5750]
426	[813, 814]	2467	[3137, 3808]	4508	[3106, 5792]	6549	[7301, 264]
427	[738, 815]	2468	[3425, 3509]	4509	[3509, 5793]	6550	[7302, 2831]
428	[816, 817]	2469	[3822, 3345]	4510	[5794, 1289]	6551	[3726, 6512]
429	[818, 819]	2470	[3823, 3034]	4511	[5795, 3680]	6552	[7303, 7304]
430	[820, 821]	2471	[3824, 3825]	4512	[5796, 3336]	6553	[1049, 5976]
431	[789, 822]	2472	[3826, 3827]	4513	[1196, 1643]	6554	[6369, 3565]
432	[823, 177]	2473	[3828, 3703]	4514	[5797, 5798]	6555	[3730, 3708]
433	[824, 602]	2474	[3829, 3830]	4515	[5799, 1513]	6556	[469, 2888]
434	[825, 826]	2475	[3831, 3832]	4516	[5634, 64]	6557	[7305, 115]
435	[827, 828]	2476	[3833, 3834]	4517	[5703, 119]	6558	[7306, 3457]
436	[829, 522]	2477	[3835, 1366]	4518	[5800, 1075]	6559	[7307, 923]
437	[830, 831]	2478	[3836, 3837]	4519	[5762, 68]	6560	[7308, 6221]
438	[832, 833]	2479	[3838, 1349]	4520	[5801, 2830]	6561	[3886, 5899]

439	[834, 835]	2480	[2918, 3262]	4521	[5802, 5803]	6562	[6302, 5519]
440	[836, 837]	2481	[3839, 3840]	4522	[3778, 334]	6563	[7309, 1290]
441	[838, 839]	2482	[2764, 3599]	4523	[3341, 5804]	6564	[3395, 5795]
442	[840, 841]	2483	[3841, 1278]	4524	[5805, 3737]	6565	[7310, 394]
443	[842, 843]	2484	[3842, 3843]	4525	[5806, 4018]	6566	[7311, 2768]
444	[844, 845]	2485	[2862, 3844]	4526	[5807, 3753]	6567	[1062, 2771]
445	[846, 847]	2486	[3845, 3846]	4527	[5808, 356]	6568	[78, 1111]
446	[848, 849]	2487	[3528, 3847]	4528	[5809, 24]	6569	[7312, 3142]
447	[850, 592]	2488	[3848, 1590]	4529	[3036, 268]	6570	[7313, 2979]
448	[778, 851]	2489	[3849, 3850]	4530	[2956, 3088]	6571	[7314, 7315]
449	[852, 853]	2490	[369, 1340]	4531	[5810, 5811]	6572	[7316, 1094]
450	[854, 855]	2491	[3851, 3852]	4532	[5812, 3684]	6573	[5844, 5726]
451	[856, 857]	2492	[3853, 3064]	4533	[5688, 2999]	6574	[5448, 2754]
452	[858, 859]	2493	[3854, 3855]	4534	[1268, 396]	6575	[1551, 3145]
453	[817, 860]	2494	[3856, 3857]	4535	[5813, 3519]	6576	[7317, 6173]
454	[861, 862]	2495	[3858, 3181]	4536	[5814, 3233]	6577	[7318, 395]
455	[863, 864]	2496	[3859, 1309]	4537	[5815, 1456]	6578	[7319, 1418]
456	[865, 866]	2497	[3860, 3092]	4538	[2999, 1633]	6579	[7320, 6055]
457	[867, 868]	2498	[3861, 3862]	4539	[5816, 1591]	6580	[3170, 3030]
458	[869, 870]	2499	[3863, 3864]	4540	[5817, 5726]	6581	[3551, 6041]
459	[871, 872]	2500	[3865, 3120]	4541	[5818, 5819]	6582	[7321, 3715]
460	[873, 874]	2501	[3866, 3867]	4542	[5687, 5820]	6583	[7322, 3982]
461	[875, 876]	2502	[1005, 3420]	4543	[273, 3243]	6584	[7323, 1080]
462	[877, 748]	2503	[3868, 306]	4544	[1182, 3484]	6585	[3733, 3478]
463	[878, 879]	2504	[3869, 3870]	4545	[5821, 5822]	6586	[7324, 2929]
464	[880, 881]	2505	[3871, 3644]	4546	[5823, 3420]	6587	[7325, 2758]
465	[882, 883]	2506	[3867, 3872]	4547	[5824, 2787]	6588	[7326, 4049]
466	[884, 885]	2507	[3873, 1621]	4548	[5825, 3218]	6589	[7327, 1541]
467	[886, 887]	2508	[3874, 2985]	4549	[3862, 454]	6590	[7328, 1169]
468	[888, 889]	2509	[3875, 3098]	4550	[3686, 5649]	6591	[7329, 5458]
469	[890, 641]	2510	[3876, 1417]	4551	[3827, 3653]	6592	[5451, 5985]
470	[891, 892]	2511	[3457, 3877]	4552	[5826, 5827]	6593	[7330, 5570]
471	[893, 894]	2512	[3878, 1629]	4553	[5828, 5829]	6594	[7331, 1345]
472	[895, 896]	2513	[3879, 1574]	4554	[5830, 3072]	6595	[3930, 2955]
473	[897, 240]	2514	[3880, 3080]	4555	[5583, 5568]	6596	[7332, 1265]
474	[898, 899]	2515	[3415, 3881]	4556	[5831, 1545]	6597	[3440, 1339]
475	[900, 901]	2516	[3882, 3883]	4557	[5832, 1584]	6598	[1560, 3746]
476	[902, 903]	2517	[3445, 3884]	4558	[5833, 424]	6599	[4006, 3779]
477	[904, 905]	2518	[3885, 3886]	4559	[2951, 5741]	6600	[7333, 3615]
478	[901, 906]	2519	[1382, 3887]	4560	[5834, 5835]	6601	[3079, 7334]
479	[907, 908]	2520	[3597, 3888]	4561	[5836, 3458]	6602	[6261, 6141]
480	[909, 910]	2521	[3889, 3524]	4562	[5837, 5838]	6603	[7335, 3911]
481	[911, 912]	2522	[3890, 329]	4563	[1351, 4055]	6604	[7336, 3739]
482	[706, 913]	2523	[3724, 1519]	4564	[5760, 3007]	6605	[1574, 2894]

483	[708, 914]	2524	[934, 3187]	4565	[5839, 1117]	6606	[5606, 1304]
484	[915, 916]	2525	[3891, 3846]	4566	[3501, 385]	6607	[7337, 3833]
485	[917, 918]	2526	[3892, 3893]	4567	[5840, 3719]	6608	[7338, 3448]
486	[919, 920]	2527	[3894, 3895]	4568	[2958, 5551]	6609	[7339, 941]
487	[921, 922]	2528	[3896, 3897]	4569	[3766, 3944]	6610	[7340, 1011]
488	[923, 924]	2529	[2970, 3295]	4570	[5841, 5795]	6611	[7341, 2967]
489	[925, 926]	2530	[3898, 3899]	4571	[5842, 3387]	6612	[7342, 2910]
490	[927, 928]	2531	[373, 3900]	4572	[3713, 3389]	6613	[7343, 6210]
491	[929, 930]	2532	[3901, 1277]	4573	[5843, 450]	6614	[5898, 3683]
492	[931, 932]	2533	[3902, 2931]	4574	[432, 5844]	6615	[475, 3559]
493	[933, 934]	2534	[3903, 3904]	4575	[3358, 5845]	6616	[7344, 3808]
494	[935, 936]	2535	[3782, 3905]	4576	[4032, 5846]	6617	[3656, 2929]
495	[937, 938]	2536	[2965, 3906]	4577	[5847, 970]	6618	[2934, 6377]
496	[939, 940]	2537	[3907, 2973]	4578	[5848, 5849]	6619	[6293, 6032]
497	[941, 942]	2538	[3042, 1368]	4579	[5554, 2988]	6620	[5645, 3870]
498	[940, 943]	2539	[3908, 3909]	4580	[1007, 5850]	6621	[5798, 6437]
499	[944, 945]	2540	[1298, 446]	4581	[5851, 5852]	6622	[5788, 1653]
500	[946, 947]	2541	[363, 1503]	4582	[5853, 5464]	6623	[7345, 1491]
501	[948, 949]	2542	[3798, 3910]	4583	[5854, 988]	6624	[7346, 427]
502	[950, 951]	2543	[2800, 3911]	4584	[3368, 1561]	6625	[7347, 1015]
503	[952, 953]	2544	[3912, 3432]	4585	[5855, 957]	6626	[7348, 422]
504	[954, 955]	2545	[3913, 1344]	4586	[5856, 2793]	6627	[7349, 1514]
505	[956, 957]	2546	[3914, 3915]	4587	[5857, 5858]	6628	[7350, 7351]
506	[958, 959]	2547	[3410, 3916]	4588	[5859, 5860]	6629	[7352, 3643]
507	[960, 961]	2548	[3917, 3918]	4589	[3620, 4039]	6630	[7353, 396]
508	[962, 963]	2549	[1082, 3919]	4590	[5861, 1182]	6631	[3855, 1267]
509	[964, 965]	2550	[3145, 3852]	4591	[5862, 3194]	6632	[7354, 3115]
510	[966, 967]	2551	[3295, 1531]	4592	[5863, 5864]	6633	[7355, 456]
511	[968, 969]	2552	[3759, 3368]	4593	[5865, 3131]	6634	[7356, 5640]
512	[970, 971]	2553	[3920, 3921]	4594	[1090, 5725]	6635	[7357, 6475]
513	[972, 973]	2554	[3922, 3821]	4595	[5866, 3414]	6636	[7358, 7359]
514	[343, 974]	2555	[428, 3923]	4596	[1112, 2963]	6637	[7360, 3446]
515	[975, 976]	2556	[3924, 342]	4597	[5867, 1250]	6638	[7361, 1494]
516	[977, 978]	2557	[3925, 2832]	4598	[4049, 1602]	6639	[7362, 7363]
517	[979, 980]	2558	[333, 417]	4599	[5868, 1554]	6640	[7364, 3494]
518	[981, 982]	2559	[3926, 1164]	4600	[5869, 3611]	6641	[7359, 350]
519	[983, 984]	2560	[3927, 2857]	4601	[5870, 5637]	6642	[7365, 3482]
520	[985, 986]	2561	[2825, 1335]	4602	[5871, 3556]	6643	[7366, 1271]
521	[987, 988]	2562	[3928, 3036]	4603	[3299, 3386]	6644	[1223, 6024]
522	[989, 990]	2563	[3929, 3930]	4604	[5872, 2786]	6645	[990, 1315]
523	[377, 21]	2564	[3931, 3932]	4605	[457, 5873]	6646	[7367, 1570]
524	[991, 992]	2565	[3662, 432]	4606	[5874, 1400]	6647	[3116, 1542]
525	[993, 994]	2566	[3933, 1014]	4607	[3941, 306]	6648	[7368, 7369]
526	[995, 996]	2567	[3934, 3432]	4608	[5875, 4043]	6649	[3160, 3799]

527	[997, 998]	2568	[3935, 3359]	4609	[5876, 318]	6650	[3458, 5787]
528	[297, 999]	2569	[3936, 107]	4610	[5877, 3346]	6651	[7370, 7334]
529	[16, 1000]	2570	[3937, 3938]	4611	[5878, 5879]	6652	[7334, 4080]
530	[18, 1001]	2571	[3939, 1444]	4612	[5880, 3127]	6653	[7371, 6105]
531	[20, 1002]	2572	[1322, 3940]	4613	[5617, 5881]	6654	[5756, 3824]
532	[22, 1003]	2573	[1450, 3941]	4614	[3010, 3816]	6655	[2787, 5993]
533	[1004, 1005]	2574	[3942, 1311]	4615	[5882, 5883]	6656	[7372, 5558]
534	[1006, 1007]	2575	[1506, 1549]	4616	[5884, 5885]	6657	[7373, 3708]
535	[1008, 1009]	2576	[3943, 3944]	4617	[5886, 5887]	6658	[7374, 1356]
536	[1010, 367]	2577	[3945, 274]	4618	[5888, 3210]	6659	[5567, 84]
537	[1011, 479]	2578	[3946, 3947]	4619	[5889, 5890]	6660	[6228, 5558]
538	[1012, 1013]	2579	[3948, 3949]	4620	[5891, 3314]	6661	[7375, 5530]
539	[1014, 1015]	2580	[3950, 3951]	4621	[2880, 5460]	6662	[7376, 5638]
540	[1016, 1017]	2581	[3952, 1016]	4622	[5892, 3888]	6663	[7377, 4027]
541	[1018, 1019]	2582	[3953, 1577]	4623	[5893, 5649]	6664	[7378, 3779]
542	[1020, 1021]	2583	[3954, 3955]	4624	[957, 5894]	6665	[7379, 417]
543	[1022, 1023]	2584	[3588, 399]	4625	[5895, 5896]	6666	[7380, 1465]
544	[1024, 1025]	2585	[1184, 3074]	4626	[5897, 5898]	6667	[7381, 387]
545	[1026, 1027]	2586	[2850, 977]	4627	[5899, 1163]	6668	[3918, 3514]
546	[922, 1028]	2587	[3956, 3084]	4628	[5900, 408]	6669	[7382, 2796]
547	[924, 1029]	2588	[3715, 3138]	4629	[1605, 3372]	6670	[7383, 304]
548	[936, 1030]	2589	[1296, 1285]	4630	[5901, 69]	6671	[7384, 5948]
549	[1031, 1032]	2590	[3957, 3035]	4631	[5902, 1362]	6672	[7385, 3673]
550	[1033, 1034]	2591	[3958, 3959]	4632	[3156, 1223]	6673	[5748, 5798]
551	[955, 1035]	2592	[3960, 3422]	4633	[2828, 327]	6674	[7386, 7387]
552	[1036, 1037]	2593	[3961, 3260]	4634	[5903, 1275]	6675	[2860, 2933]
553	[1038, 1039]	2594	[3962, 1347]	4635	[121, 5684]	6676	[2930, 5639]
554	[1040, 1041]	2595	[3672, 3963]	4636	[5904, 2925]	6677	[5734, 7388]
555	[1042, 1043]	2596	[3964, 3965]	4637	[123, 1442]	6678	[3343, 6247]
556	[1044, 435]	2597	[3966, 3924]	4638	[5905, 1025]	6679	[5641, 7386]
557	[1045, 952]	2598	[3507, 3967]	4639	[5906, 3069]	6680	[266, 5734]
558	[1046, 1047]	2599	[3968, 3969]	4640	[4109, 278]	6681	[3978, 2860]
559	[1048, 1049]	2600	[2974, 3970]	4641	[1439, 5679]	6682	[5784, 1037]
560	[1050, 1051]	2601	[1270, 3462]	4642	[1261, 5839]	6683	[7389, 3940]
561	[1052, 1053]	2602	[3971, 3972]	4643	[5907, 5727]	6684	[345, 1059]
562	[1054, 1055]	2603	[3973, 1107]	4644	[5908, 5909]	6685	[5943, 4076]
563	[1056, 1057]	2604	[1200, 1445]	4645	[5910, 454]	6686	[7390, 1170]
564	[1058, 1059]	2605	[2870, 3974]	4646	[3600, 5609]	6687	[3981, 3209]
565	[1060, 378]	2606	[3975, 108]	4647	[5911, 3279]	6688	[7391, 359]
566	[1061, 1062]	2607	[3976, 2811]	4648	[3204, 3603]	6689	[7392, 97]
567	[1063, 1064]	2608	[3977, 3978]	4649	[5912, 2964]	6690	[7393, 6247]
568	[1065, 1066]	2609	[3979, 1299]	4650	[953, 5783]	6691	[5582, 3609]
569	[1067, 1068]	2610	[3980, 3981]	4651	[5913, 3335]	6692	[7394, 449]
570	[1069, 1070]	2611	[3921, 3982]	4652	[5914, 2997]	6693	[3134, 5700]

571	[1071, 1072]	2612	[3983, 3984]	4653	[1068, 3413]	6694	[7395, 6045]
572	[1073, 1074]	2613	[3985, 3732]	4654	[5915, 5916]	6695	[7396, 1654]
573	[109, 964]	2614	[3986, 3987]	4655	[1104, 5917]	6696	[7397, 3235]
574	[1075, 1076]	2615	[3988, 1070]	4656	[5918, 1085]	6697	[7398, 2986]
575	[1077, 1078]	2616	[3989, 935]	4657	[5919, 1641]	6698	[7399, 5567]
576	[1079, 1080]	2617	[3466, 1600]	4658	[341, 5595]	6699	[1469, 3350]
577	[1081, 1082]	2618	[3990, 1571]	4659	[1459, 5548]	6700	[3807, 2844]
578	[1083, 1084]	2619	[3991, 3992]	4660	[5920, 2873]	6701	[7400, 1062]
579	[1085, 1086]	2620	[1334, 1179]	4661	[5921, 317]	6702	[7401, 1454]
580	[1087, 1088]	2621	[3993, 3994]	4662	[5922, 4092]	6703	[1347, 3535]
581	[1089, 1090]	2622	[3264, 3995]	4663	[5923, 3080]	6704	[7402, 2802]
582	[1091, 1092]	2623	[3996, 101]	4664	[5924, 4048]	6705	[7403, 365]
583	[1093, 1094]	2624	[3997, 3998]	4665	[1374, 5925]	6706	[82, 3142]
584	[1095, 1096]	2625	[3999, 3767]	4666	[5926, 5527]	6707	[6306, 5665]
585	[1097, 1098]	2626	[3788, 1598]	4667	[5927, 301]	6708	[7404, 1624]
586	[1099, 1100]	2627	[3427, 1342]	4668	[1610, 5742]	6709	[3578, 3724]
587	[1101, 1102]	2628	[3290, 1087]	4669	[5928, 5498]	6710	[7405, 3236]
588	[1103, 1104]	2629	[1029, 1142]	4670	[5929, 3358]	6711	[7406, 6155]
589	[1105, 1106]	2630	[1329, 304]	4671	[2811, 5930]	6712	[1264, 3107]
590	[1107, 1108]	2631	[4000, 3730]	4672	[5931, 1294]	6713	[7407, 1186]
591	[1109, 1110]	2632	[4001, 2780]	4673	[5932, 5483]	6714	[416, 2768]
592	[1111, 1112]	2633	[4002, 4003]	4674	[5933, 5563]	6715	[1064, 3780]
593	[1113, 1114]	2634	[4004, 1279]	4675	[5934, 1458]	6716	[7408, 1284]
594	[1115, 1116]	2635	[4005, 4006]	4676	[5935, 1386]	6717	[7409, 3313]
595	[1117, 1118]	2636	[4007, 1233]	4677	[5936, 1552]	6718	[7410, 2902]
596	[1119, 1120]	2637	[4008, 3654]	4678	[4055, 5937]	6719	[5759, 3010]
597	[1121, 1122]	2638	[1424, 1150]	4679	[3673, 1578]	6720	[7411, 5820]
598	[1123, 1124]	2639	[4009, 4010]	4680	[5938, 1435]	6721	[3386, 1159]
599	[355, 1125]	2640	[4011, 4012]	4681	[5939, 3606]	6722	[4034, 6000]
600	[1126, 1127]	2641	[3257, 403]	4682	[5940, 5665]	6723	[7412, 1306]
601	[1128, 1129]	2642	[3276, 310]	4683	[5941, 3129]	6724	[7413, 2776]
602	[1130, 1131]	2643	[4013, 962]	4684	[5942, 1501]	6725	[3451, 992]
603	[1132, 1074]	2644	[2949, 1528]	4685	[2855, 5943]	6726	[3906, 7414]
604	[1133, 1134]	2645	[4014, 3703]	4686	[5885, 3530]	6727	[7415, 3997]
605	[1135, 1136]	2646	[4015, 3676]	4687	[5944, 5635]	6728	[2990, 3170]
606	[1137, 1138]	2647	[4016, 2801]	4688	[5945, 946]	6729	[7416, 7417]
607	[1139, 1140]	2648	[4017, 4018]	4689	[5946, 948]	6730	[7418, 435]
608	[1141, 1142]	2649	[4019, 3315]	4690	[5947, 2892]	6731	[7419, 3772]
609	[1143, 1144]	2650	[4020, 2954]	4691	[1146, 5948]	6732	[5562, 3687]
610	[1145, 1146]	2651	[4021, 4022]	4692	[5949, 3639]	6733	[66, 2861]
611	[1147, 1148]	2652	[4023, 3456]	4693	[3630, 3874]	6734	[3959, 3686]
612	[1149, 1150]	2653	[4024, 3346]	4694	[2981, 5950]	6735	[1088, 7315]
613	[1151, 1152]	2654	[4025, 3952]	4695	[1569, 1139]	6736	[1096, 1440]
614	[1153, 1045]	2655	[3121, 3997]	4696	[5951, 2935]	6737	[5838, 3939]

615	[1154, 1155]	2656	[4026, 2840]	4697	[5952, 3910]	6738	[7420, 455]
616	[1156, 1157]	2657	[1108, 3497]	4698	[3102, 5953]	6739	[7421, 3626]
617	[1158, 1159]	2658	[1649, 4027]	4699	[5954, 3589]	6740	[7422, 3439]
618	[1160, 1161]	2659	[3482, 3637]	4700	[1378, 1552]	6741	[7423, 253]
619	[1162, 1163]	2660	[2827, 1547]	4701	[3027, 260]	6742	[7424, 5643]
620	[1164, 434]	2661	[4028, 3230]	4702	[5955, 3167]	6743	[7425, 1108]
621	[1165, 1166]	2662	[3505, 3758]	4703	[3521, 5956]	6744	[7315, 324]
622	[1167, 1168]	2663	[4029, 4030]	4704	[5957, 956]	6745	[7426, 425]
623	[1169, 1170]	2664	[4031, 4032]	4705	[5958, 3980]	6746	[3741, 1027]
624	[1171, 1172]	2665	[98, 4033]	4706	[5959, 3470]	6747	[7427, 1174]
625	[1173, 1174]	2666	[1585, 4034]	4707	[1523, 5960]	6748	[4090, 2978]
626	[1175, 1176]	2667	[3004, 4035]	4708	[5961, 3382]	6749	[7428, 5762]
627	[1177, 1178]	2668	[4036, 4037]	4709	[5962, 5963]	6750	[3857, 5774]
628	[1179, 1180]	2669	[4038, 4039]	4710	[5964, 4109]	6751	[3497, 249]
629	[1181, 1182]	2670	[3066, 3774]	4711	[1499, 1100]	6752	[3870, 7429]
630	[1183, 1184]	2671	[1219, 3395]	4712	[5965, 5899]	6753	[5680, 1658]
631	[1185, 1186]	2672	[4040, 4041]	4713	[1122, 5860]	6754	[3236, 3217]
632	[1187, 1188]	2673	[4042, 3677]	4714	[5966, 1388]	6755	[7430, 5784]
633	[1189, 1190]	2674	[4043, 2983]	4715	[5967, 5744]	6756	[7431, 2903]
634	[1191, 1192]	2675	[1511, 318]	4716	[439, 5525]	6757	[7432, 6209]
635	[1193, 1194]	2676	[4044, 3996]	4717	[3206, 16]	6758	[6445, 3656]
636	[1195, 1196]	2677	[3916, 4045]	4718	[434, 381]	6759	[6032, 5640]
637	[1197, 1198]	2678	[4046, 4047]	4719	[5968, 5774]	6760	[6760, 6760]
638	[1199, 1200]	2679	[3899, 3722]	4720	[5969, 5970]	6761	[7433, 1263]
639	[1201, 1202]	2680	[4048, 4049]	4721	[5971, 5534]	6762	[7434, 3872]
640	[1203, 1204]	2681	[4050, 392]	4722	[3351, 5888]	6763	[7435, 3528]
641	[1205, 1206]	2682	[1266, 394]	4723	[1306, 5972]	6764	[3029, 961]
642	[1207, 1208]	2683	[3969, 3406]	4724	[5973, 5974]	6765	[7436, 6024]
643	[1209, 1210]	2684	[4051, 3665]	4725	[5975, 5976]	6766	[5732, 5887]
644	[1211, 1212]	2685	[1579, 1237]	4726	[5977, 999]	6767	[7437, 360]
645	[1213, 257]	2686	[4052, 91]	4727	[5978, 3093]	6768	[7438, 1466]
646	[1214, 1215]	2687	[2938, 3293]	4728	[1398, 1421]	6769	[7439, 3001]
647	[1216, 1217]	2688	[1647, 1093]	4729	[5979, 5980]	6770	[3583, 3845]
648	[1218, 1219]	2689	[4053, 977]	4730	[5981, 320]	6771	[7440, 6263]
649	[1220, 1221]	2690	[4054, 4055]	4731	[5982, 3210]	6772	[7441, 5571]
650	[1222, 1223]	2691	[2783, 938]	4732	[1116, 5983]	6773	[5523, 3750]
651	[1224, 1225]	2692	[4056, 3176]	4733	[5679, 1452]	6774	[357, 1533]
652	[1226, 1227]	2693	[4057, 3930]	4734	[5984, 5985]	6775	[7442, 3053]
653	[1228, 1229]	2694	[4058, 3746]	4735	[5986, 1117]	6776	[4027, 5597]
654	[1230, 1231]	2695	[4059, 391]	4736	[5987, 1471]	6777	[6060, 5490]
655	[1232, 1233]	2696	[4060, 3512]	4737	[5988, 5989]	6778	[7443, 5645]
656	[1234, 1235]	2697	[4061, 986]	4738	[5990, 3628]	6779	[7444, 3844]
657	[1236, 1237]	2698	[4062, 2883]	4739	[5991, 3710]	6780	[3909, 1570]
658	[943, 1084]	2699	[4063, 3580]	4740	[5992, 3740]	6781	[7445, 5641]

659	[1238, 1239]	2700	[4064, 3941]	4741	[5993, 1355]	6782	[7446, 3884]
660	[1240, 1241]	2701	[3471, 1131]	4742	[5994, 3042]	6783	[7447, 6380]
661	[1242, 1243]	2702	[4065, 4066]	4743	[5995, 5996]	6784	[1243, 1590]
662	[1034, 476]	2703	[4067, 3850]	4744	[5997, 3510]	6785	[3220, 5686]
663	[1244, 1245]	2704	[3238, 3278]	4745	[5998, 3049]	6786	[7448, 6278]
664	[1246, 1247]	2705	[4068, 332]	4746	[5999, 6000]	6787	[7449, 5839]
665	[1248, 1249]	2706	[3951, 1469]	4747	[1428, 4072]	6788	[7450, 6318]
666	[1250, 1251]	2707	[4069, 3733]	4748	[6001, 3771]	6789	[7451, 3577]
667	[1252, 1253]	2708	[4070, 1129]	4749	[6002, 1635]	6790	[7452, 2940]
668	[1254, 1255]	2709	[3693, 3619]	4750	[2785, 2992]	6791	[1400, 3303]
669	[1256, 1257]	2710	[4071, 4072]	4751	[3633, 3083]	6792	[2932, 3054]
670	[1258, 1259]	2711	[430, 4073]	4752	[6003, 6004]	6793	[7453, 1157]
671	[1260, 1261]	2712	[2890, 2876]	4753	[6005, 2919]	6794	[7454, 3027]
672	[365, 482]	2713	[4074, 470]	4754	[6006, 361]	6795	[7455, 2848]
673	[1262, 77]	2714	[4075, 4076]	4755	[6007, 2871]	6796	[7456, 5696]
674	[1263, 1264]	2715	[1438, 1458]	4756	[3722, 3161]	6797	[7457, 3681]
675	[1265, 1266]	2716	[4077, 1482]	4757	[1391, 6008]	6798	[4076, 3973]
676	[1267, 1268]	2717	[4078, 2790]	4758	[6009, 3274]	6799	[7458, 1550]
677	[1269, 1270]	2718	[4079, 4080]	4759	[6010, 3845]	6800	[3559, 4084]
678	[1271, 269]	2719	[4081, 4082]	4760	[6011, 3747]	6801	[7459, 1383]
679	[1272, 1273]	2720	[1376, 1413]	4761	[6012, 2879]	6802	[7460, 6238]
680	[1274, 1275]	2721	[4083, 4084]	4762	[6013, 3553]	6803	[7461, 307]
681	[1276, 1277]	2722	[4, 3151]	4763	[6014, 340]	6804	[7462, 3248]
682	[1278, 1279]	2723	[4085, 4086]	4764	[3112, 6015]	6805	[6141, 3613]
683	[309, 1280]	2724	[4087, 4088]	4765	[6016, 3757]	6806	[7463, 1453]
684	[974, 1281]	2725	[4089, 4090]	4766	[3422, 5890]	6807	[3533, 5530]
685	[1282, 1283]	2726	[4091, 4092]	4767	[6017, 1564]	6808	[7464, 3263]
686	[1284, 1203]	2727	[3345, 1023]	4768	[6018, 5555]	6809	[7465, 2762]
687	[1285, 1077]	2728	[1281, 959]	4769	[1074, 4037]	6810	[7466, 3604]
688	[1286, 1287]	2729	[4093, 3488]	4770	[6019, 111]	6811	[5661, 6207]
689	[1288, 1089]	2730	[4094, 3272]	4771	[6020, 5493]	6812	[4082, 3947]
690	[1289, 1290]	2731	[4095, 1397]	4772	[6021, 3809]	6813	[1635, 6155]
691	[1291, 1292]	2732	[1000, 4096]	4773	[6022, 335]	6814	[1598, 3811]
692	[1293, 1294]	2733	[4097, 1118]	4774	[6023, 3780]	6815	[7467, 272]
693	[1295, 1296]	2734	[4098, 3929]	4775	[2794, 2837]	6816	[7468, 3650]
694	[1297, 1298]	2735	[4099, 1283]	4776	[6024, 2970]	6817	[6281, 5703]
695	[1299, 1300]	2736	[4100, 3297]	4777	[6025, 3898]	6818	[7469, 4012]
696	[367, 1301]	2737	[4101, 2923]	4778	[1365, 3996]	6819	[5850, 3727]
697	[1302, 1303]	2738	[4102, 1230]	4779	[6026, 3085]	6820	[7470, 5562]
698	[1304, 1305]	2739	[1305, 336]	4780	[1658, 1609]	6821	[7471, 3264]
699	[287, 1306]	2740	[4103, 3988]	4781	[6027, 273]	6822	[7472, 2792]
700	[1307, 1308]	2741	[4104, 973]	4782	[6028, 5659]	6823	[7473, 3817]
701	[1309, 97]	2742	[4105, 3758]	4783	[6029, 2942]	6824	[7474, 3590]
702	[1310, 254]	2743	[4106, 3906]	4784	[6030, 98]	6825	[1414, 2845]

703	[1311, 352]	2744	[4107, 2797]	4785	[6031, 6032]	6826	[6319, 3516]
704	[1312, 1313]	2745	[4108, 4109]	4786	[6033, 5485]	6827	[7475, 7429]
705	[1314, 1315]	2746	[4110, 402]	4787	[3139, 3688]	6828	[7476, 1078]
706	[1316, 1262]	2747	[4111, 3577]	4788	[3388, 3767]	6829	[7477, 2894]
707	[1317, 1318]	2748	[4112, 3466]	4789	[6034, 3915]	6830	[1102, 6228]
708	[1319, 1320]	2749	[4113, 1636]	4790	[5618, 3000]	6831	[5860, 5963]
709	[1321, 1322]	2750	[4114, 2755]	4791	[3650, 3909]	6832	[7478, 442]
710	[1323, 1135]	2751	[4115, 1389]	4792	[6035, 348]	6833	[3181, 1253]
711	[1324, 1325]	2752	[4116, 4117]	4793	[6036, 3874]	6834	[7479, 3544]
712	[1326, 1327]	2753	[4118, 4119]	4794	[6037, 5956]	6835	[7480, 1648]
713	[1328, 1329]	2754	[4120, 4121]	4795	[6038, 1066]	6836	[7481, 5846]
714	[1330, 1331]	2755	[2045, 4122]	4796	[6039, 5676]	6837	[5566, 941]
715	[1332, 1333]	2756	[4123, 4124]	4797	[6040, 486]	6838	[7482, 3688]
716	[994, 1334]	2757	[814, 779]	4798	[6041, 3843]	6839	[7483, 3326]
717	[1335, 1336]	2758	[4125, 4126]	4799	[6042, 3481]	6840	[7484, 3399]
718	[1337, 1338]	2759	[4127, 4128]	4800	[5668, 5750]	6841	[6201, 1645]
719	[1339, 1177]	2760	[607, 2280]	4801	[6043, 3469]	6842	[7485, 1168]
720	[1340, 1341]	2761	[4129, 1798]	4802	[6044, 1246]	6843	[1292, 6206]
721	[1342, 1343]	2762	[4130, 4131]	4803	[3292, 6045]	6844	[7486, 1436]
722	[1344, 1345]	2763	[4132, 4133]	4804	[6046, 6047]	6845	[7487, 3545]
723	[1346, 1347]	2764	[4134, 4135]	4805	[3320, 6048]	6846	[3684, 6069]
724	[1348, 1349]	2765	[4136, 4137]	4806	[3580, 1249]	6847	[7488, 6008]
725	[1350, 1351]	2766	[4138, 554]	4807	[6049, 5608]	6848	[7489, 3963]
726	[1043, 997]	2767	[4139, 246]	4808	[6050, 6051]	6849	[7490, 5713]
727	[1352, 1353]	2768	[4140, 2001]	4809	[6052, 3680]	6850	[7491, 1421]
728	[1354, 93]	2769	[4141, 4142]	4810	[3018, 6053]	6851	[7492, 2864]
729	[1355, 412]	2770	[4143, 4144]	4811	[6054, 6055]	6852	[7493, 3720]
730	[1356, 1357]	2771	[4145, 641]	4812	[6056, 2847]	6853	[3982, 23]
731	[1358, 1326]	2772	[4146, 4147]	4813	[5525, 1024]	6854	[7494, 5501]
732	[1359, 1360]	2773	[2660, 4148]	4814	[6057, 1119]	6855	[7495, 5468]
733	[1361, 258]	2774	[4149, 2615]	4815	[6058, 3046]	6856	[1448, 6338]
734	[1362, 1363]	2775	[4150, 2351]	4816	[6047, 3157]	6857	[5883, 1255]
735	[1364, 1365]	2776	[4151, 4152]	4817	[6059, 6060]	6858	[7496, 1190]
736	[1366, 1367]	2777	[4153, 2460]	4818	[1541, 1604]	6859	[1229, 3447]
737	[1368, 1369]	2778	[2053, 2730]	4819	[6061, 3905]	6860	[7497, 2897]
738	[1370, 1371]	2779	[4154, 4155]	4820	[6062, 3914]	6861	[7498, 3304]
739	[402, 1372]	2780	[4156, 655]	4821	[6063, 3322]	6862	[7499, 1212]
740	[1373, 1374]	2781	[2159, 4157]	4822	[3359, 5617]	6863	[6456, 3024]
741	[1375, 1376]	2782	[4158, 1693]	4823	[6064, 6065]	6864	[7500, 3005]
742	[1377, 1378]	2783	[4159, 2397]	4824	[5585, 2813]	6865	[7501, 5711]
743	[1217, 1379]	2784	[4131, 4160]	4825	[6066, 5454]	6866	[3955, 6178]
744	[1380, 1381]	2785	[4161, 2043]	4826	[3465, 5810]	6867	[5497, 3247]
745	[94, 1382]	2786	[4162, 913]	4827	[5835, 3220]	6868	[7502, 3593]
746	[1383, 1384]	2787	[4163, 597]	4828	[6067, 3802]	6869	[7503, 3683]

747	[1385, 984]	2788	[4164, 4165]	4829	[6068, 6069]	6870	[7504, 3663]
748	[1386, 1387]	2789	[4166, 4167]	4830	[6070, 5964]	6871	[7505, 278]
749	[1388, 1389]	2790	[4168, 4169]	4831	[6071, 1625]	6872	[7506, 3426]
750	[1390, 1391]	2791	[651, 232]	4832	[6072, 407]	6873	[3661, 1124]
751	[1392, 967]	2792	[4170, 2638]	4833	[6073, 5972]	6874	[7507, 5593]
752	[1393, 1394]	2793	[4171, 2675]	4834	[6074, 5761]	6875	[7508, 3061]
753	[1395, 1396]	2794	[4172, 685]	4835	[5454, 3921]	6876	[7509, 4033]
754	[1397, 1398]	2795	[4173, 4126]	4836	[6075, 3289]	6877	[5956, 3538]
755	[1399, 1400]	2796	[4174, 4175]	4837	[3712, 3588]	6878	[7510, 1112]
756	[1401, 1402]	2797	[4176, 1746]	4838	[6076, 6077]	6879	[1502, 1321]
757	[1403, 1404]	2798	[2059, 737]	4839	[6078, 1613]	6880	[7511, 1221]
758	[1405, 1406]	2799	[4177, 4178]	4840	[6079, 6080]	6881	[5727, 6181]
759	[1407, 1408]	2800	[4179, 4180]	4841	[6081, 3022]	6882	[3250, 4043]
760	[1409, 1410]	2801	[4181, 2489]	4842	[6082, 3148]	6883	[1456, 485]
761	[1411, 1132]	2802	[4165, 2428]	4843	[6083, 4091]	6884	[7512, 1410]
762	[942, 1412]	2803	[4182, 4183]	4844	[5983, 1044]	6885	[7513, 3564]
763	[1413, 1414]	2804	[4184, 4185]	4845	[6084, 3188]	6886	[7514, 3887]
764	[1415, 1416]	2805	[4186, 2456]	4846	[6085, 5582]	6887	[285, 2786]
765	[1417, 1418]	2806	[2207, 4187]	4847	[6004, 89]	6888	[7515, 21]
766	[1419, 1420]	2807	[4188, 4189]	4848	[3884, 4077]	6889	[7516, 3899]
767	[1421, 1422]	2808	[4190, 2151]	4849	[6086, 1346]	6890	[7517, 292]
768	[1423, 1424]	2809	[4191, 684]	4850	[3100, 1230]	6891	[7518, 5850]
769	[1425, 262]	2810	[2526, 4192]	4851	[1484, 2810]	6892	[7519, 6127]
770	[1426, 1317]	2811	[4193, 2600]	4852	[5909, 1211]	6893	[3694, 3614]
771	[1427, 1319]	2812	[4194, 153]	4853	[3213, 6087]	6894	[3825, 1430]
772	[6, 1428]	2813	[4195, 2472]	4854	[6088, 2988]	6895	[7520, 4082]
773	[1429, 1430]	2814	[4196, 4197]	4855	[6089, 2853]	6896	[7521, 1335]
774	[1431, 1432]	2815	[4198, 2001]	4856	[6090, 3440]	6897	[7522, 3919]
775	[1433, 1434]	2816	[4199, 4200]	4857	[2986, 5739]	6898	[3463, 5935]
776	[1435, 1436]	2817	[4201, 4202]	4858	[6091, 70]	6899	[7523, 922]
777	[1437, 1438]	2818	[4203, 2003]	4859	[6092, 1313]	6900	[7524, 4047]
778	[115, 1439]	2819	[196, 4204]	4860	[5708, 5452]	6901	[3396, 3856]
779	[1440, 1205]	2820	[4205, 2042]	4861	[6093, 3637]	6902	[7525, 4052]
780	[1441, 1442]	2821	[4206, 564]	4862	[6094, 3231]	6903	[7526, 5731]
781	[1443, 1444]	2822	[4207, 4208]	4863	[6095, 6096]	6904	[2909, 3156]
782	[1445, 1446]	2823	[4209, 2141]	4864	[3974, 1135]	6905	[441, 1082]
783	[1447, 1448]	2824	[4210, 4211]	4865	[3262, 3754]	6906	[7527, 3077]
784	[1449, 1450]	2825	[4212, 1821]	4866	[6097, 6098]	6907	[6428, 472]
785	[1451, 1452]	2826	[2556, 4213]	4867	[6099, 2881]	6908	[3273, 2835]
786	[1453, 1454]	2827	[4214, 2032]	4868	[6100, 1521]	6909	[1325, 294]
787	[1455, 1456]	2828	[1848, 4215]	4869	[4033, 2819]	6910	[3593, 3276]
788	[1457, 1044]	2829	[892, 4216]	4870	[6101, 6102]	6911	[7528, 3121]
789	[1458, 1459]	2830	[4217, 4218]	4871	[5519, 6103]	6912	[412, 6098]
790	[1460, 1461]	2831	[4219, 771]	4872	[3689, 2856]	6913	[7529, 5576]

791	[1462, 1463]	2832	[4215, 4220]	4873	[6104, 6004]	6914	[988, 1005]
792	[1464, 1403]	2833	[4221, 4222]	4874	[2964, 5822]	6915	[7530, 3374]
793	[1465, 1466]	2834	[4223, 1837]	4875	[6105, 2972]	6916	[2972, 5448]
794	[1467, 1316]	2835	[4224, 4172]	4876	[6106, 3621]	6917	[7531, 3211]
795	[1468, 1469]	2836	[4225, 1736]	4877	[6107, 1614]	6918	[5787, 5696]
796	[1470, 1471]	2837	[2675, 2392]	4878	[3301, 5498]	6919	[479, 3949]
797	[1472, 1473]	2838	[4226, 2286]	4879	[3438, 6108]	6920	[5675, 7363]
798	[1474, 1475]	2839	[740, 2328]	4880	[6109, 2941]	6921	[7532, 423]
799	[1212, 1476]	2840	[742, 2720]	4881	[3452, 3624]	6922	[7533, 3627]
800	[1477, 1478]	2841	[4227, 4228]	4882	[6110, 3790]	6923	[996, 1569]
801	[1444, 1479]	2842	[730, 1795]	4883	[6111, 5788]	6924	[6127, 430]
802	[1480, 1481]	2843	[1823, 1907]	4884	[967, 3988]	6925	[7534, 1375]
803	[1482, 80]	2844	[4229, 696]	4885	[1273, 5566]	6926	[7535, 965]
804	[1483, 1484]	2845	[4230, 2342]	4886	[3811, 5916]	6927	[1152, 1144]
805	[1485, 1486]	2846	[2436, 1951]	4887	[6112, 3306]	6928	[7536, 3088]
806	[1487, 1030]	2847	[4231, 2052]	4888	[6113, 1459]	6929	[7537, 2779]
807	[1488, 1332]	2848	[4232, 4233]	4889	[1516, 1474]	6930	[7538, 1173]
808	[1489, 1490]	2849	[4234, 2395]	4890	[3008, 4088]	6931	[6299, 1312]
809	[1491, 1492]	2850	[4208, 1764]	4891	[6114, 3463]	6932	[7539, 1093]
810	[1493, 1494]	2851	[4235, 4236]	4892	[6080, 3472]	6933	[6380, 2945]
811	[1495, 427]	2852	[4237, 4238]	4893	[2807, 6047]	6934	[1313, 4094]
812	[1496, 1048]	2853	[1983, 2040]	4894	[6115, 1122]	6935	[1198, 6306]
813	[1497, 1440]	2854	[4239, 4240]	4895	[6116, 469]	6936	[7540, 3856]
814	[1498, 1499]	2855	[2626, 4241]	4896	[6117, 1132]	6937	[5822, 3543]
815	[1369, 1500]	2856	[4242, 4243]	4897	[1030, 3060]	6938	[7541, 90]
816	[1501, 1502]	2857	[4244, 4245]	4898	[1504, 5864]	6939	[7542, 3234]
817	[1503, 1504]	2858	[2128, 2468]	4899	[6118, 3037]	6940	[359, 4003]
818	[455, 339]	2859	[2130, 4246]	4900	[4086, 4059]	6941	[7543, 1016]
819	[1505, 1506]	2860	[4247, 4248]	4901	[6119, 5618]	6942	[6053, 5663]
820	[1507, 1508]	2861	[131, 4249]	4902	[6120, 2880]	6943	[7544, 1272]
821	[978, 1509]	2862	[4250, 2396]	4903	[6121, 3619]	6944	[7545, 2890]
822	[1510, 1511]	2863	[2390, 2224]	4904	[6122, 3728]	6945	[7546, 1520]
823	[1512, 1513]	2864	[2494, 1684]	4905	[6123, 6124]	6946	[7547, 6108]
824	[1514, 1032]	2865	[4251, 2287]	4906	[6125, 2882]	6947	[3330, 6051]
825	[1515, 1516]	2866	[4252, 4253]	4907	[6126, 3147]	6948	[5487, 3306]
826	[1517, 1518]	2867	[4254, 4255]	4908	[1066, 3125]	6949	[7548, 1320]
827	[1519, 1520]	2868	[4256, 2126]	4909	[5745, 6127]	6950	[3110, 2817]
828	[1170, 1521]	2869	[772, 4257]	4910	[6128, 419]	6951	[7549, 1079]
829	[1522, 1523]	2870	[4258, 4123]	4911	[6129, 3514]	6952	[7550, 1608]
830	[1015, 1524]	2871	[4259, 2336]	4912	[3024, 3862]	6953	[7551, 3243]
831	[1525, 1526]	2872	[4260, 1722]	4913	[6130, 255]	6954	[7552, 376]
832	[1527, 1528]	2873	[4261, 860]	4914	[3083, 116]	6955	[7553, 2838]
833	[1529, 1137]	2874	[4262, 4263]	4915	[6131, 1338]	6956	[7554, 2913]
834	[1530, 325]	2875	[2186, 4264]	4916	[6132, 1580]	6957	[7555, 3517]

835	[1531, 1532]	2876	[4265, 807]	4917	[6133, 1496]	6958	[7556, 3449]
836	[1533, 1534]	2877	[4266, 4267]	4918	[6134, 3800]	6959	[3622, 29]
837	[1535, 1498]	2878	[4268, 2008]	4919	[6135, 324]	6960	[5705, 1270]
838	[1536, 1537]	2879	[4269, 207]	4920	[6136, 934]	6961	[7557, 2946]
839	[1538, 1539]	2880	[2047, 2315]	4921	[3932, 5835]	6962	[7558, 1184]
840	[1540, 1541]	2881	[812, 509]	4922	[6137, 3340]	6963	[7559, 1092]
841	[1542, 1543]	2882	[4270, 2243]	4923	[6138, 1217]	6964	[7560, 3327]
842	[1287, 1544]	2883	[4271, 864]	4924	[6139, 1378]	6965	[7561, 2926]
843	[1545, 1282]	2884	[4272, 4273]	4925	[1654, 3830]	6966	[3419, 3992]
844	[1546, 370]	2885	[4274, 4275]	4926	[6140, 6141]	6967	[7562, 6319]
845	[1547, 1187]	2886	[4276, 1796]	4927	[6142, 3246]	6968	[3582, 2766]
846	[1548, 1549]	2887	[2327, 4277]	4928	[6143, 6144]	6969	[7563, 5705]
847	[1550, 1551]	2888	[4278, 4123]	4929	[6145, 5894]	6970	[2857, 3118]
848	[1552, 1553]	2889	[4279, 2354]	4930	[6146, 3880]	6971	[473, 120]
849	[1554, 1555]	2890	[4280, 588]	4931	[6147, 3838]	6972	[7564, 4073]
850	[1239, 1113]	2891	[4281, 4282]	4932	[3382, 4091]	6973	[2906, 3172]
851	[1556, 1557]	2892	[4283, 551]	4933	[1452, 5838]	6974	[7565, 1384]
852	[1558, 1559]	2893	[4284, 2146]	4934	[6148, 1503]	6975	[7566, 3547]
853	[119, 1560]	2894	[4285, 4286]	4935	[6149, 3890]	6976	[5514, 1484]
854	[1561, 969]	2895	[4287, 2108]	4936	[3541, 464]	6977	[2759, 5497]
855	[1418, 1562]	2896	[4288, 2612]	4937	[6150, 2896]	6978	[3406, 970]
856	[1563, 460]	2897	[4289, 4290]	4938	[6151, 122]	6979	[7567, 5811]
857	[1564, 1565]	2898	[4291, 2145]	4939	[6152, 124]	6980	[7568, 5706]
858	[1566, 1567]	2899	[4292, 4293]	4940	[3518, 2795]	6981	[3847, 5607]
859	[1568, 1569]	2900	[4294, 1952]	4941	[3553, 3717]	6982	[7569, 3419]
860	[1570, 1571]	2901	[4295, 1831]	4942	[6153, 5668]	6983	[7570, 5993]
861	[1572, 1512]	2902	[4296, 4297]	4943	[3735, 375]	6984	[7571, 2911]
862	[1573, 1574]	2903	[4298, 4299]	4944	[6154, 5732]	6985	[7572, 3622]
863	[1290, 1575]	2904	[4300, 2497]	4945	[6155, 3465]	6986	[7573, 6437]
864	[1576, 1577]	2905	[4301, 4302]	4946	[6156, 3567]	6987	[4035, 3305]
865	[1578, 1579]	2906	[4303, 548]	4947	[6157, 5489]	6988	[7574, 3421]
866	[965, 1580]	2907	[4304, 857]	4948	[3224, 1360]	6989	[7575, 7388]
867	[1581, 444]	2908	[4305, 2332]	4949	[6158, 6159]	6990	[3483, 3130]
868	[1582, 1216]	2909	[642, 2160]	4950	[6160, 3471]	6991	[7576, 3455]
869	[1583, 1090]	2910	[4306, 603]	4951	[5573, 6161]	6992	[7577, 1519]
870	[1584, 972]	2911	[4307, 4308]	4952	[1615, 3310]	6993	[7578, 3369]
871	[1155, 1585]	2912	[4309, 2666]	4953	[3595, 4041]	6994	[7579, 6332]
872	[1586, 1587]	2913	[4310, 2127]	4954	[6162, 2932]	6995	[4010, 5964]
873	[1588, 1589]	2914	[2388, 4311]	4955	[5457, 72]	6996	[3523, 7369]
874	[1590, 1591]	2915	[4312, 4313]	4956	[6163, 4089]	6997	[7580, 3162]
875	[1592, 1593]	2916	[4314, 654]	4957	[951, 481]	6998	[3830, 3545]
876	[1594, 1595]	2917	[751, 2371]	4958	[6164, 2959]	6999	[5827, 3669]
877	[1596, 462]	2918	[1674, 4315]	4959	[6165, 3046]	7000	[7581, 6302]
878	[1597, 1598]	2919	[2512, 4316]	4960	[6166, 1206]	7001	[7582, 2777]

879	[1599, 1600]	2920	[4317, 758]	4961	[2888, 3898]	7002	[7583, 3111]
880	[1601, 1372]	2921	[4318, 4319]	4962	[6167, 5773]	7003	[7584, 1647]
881	[1602, 1603]	2922	[4253, 2152]	4963	[6168, 4077]	7004	[7585, 6015]
882	[1604, 1605]	2923	[1910, 4320]	4964	[5663, 3233]	7005	[4003, 444]
883	[1606, 1607]	2924	[4321, 4322]	4965	[6169, 3583]	7006	[7586, 1160]
884	[969, 1608]	2925	[4323, 4324]	4966	[6170, 398]	7007	[7587, 5701]
885	[1609, 1478]	2926	[1862, 4325]	4967	[6171, 4011]	7008	[7588, 3533]
886	[1454, 1610]	2927	[4326, 1780]	4968	[6172, 3689]	7009	[3915, 6332]
887	[1611, 1214]	2928	[4327, 4328]	4969	[6173, 1651]	7010	[7589, 5452]
888	[1612, 1596]	2929	[4329, 4330]	4970	[6174, 928]	7011	[3745, 3449]
889	[400, 1613]	2930	[4325, 4321]	4971	[6175, 1017]	7012	[3332, 3959]
890	[1614, 1615]	2931	[4322, 4248]	4972	[6176, 4]	7013	[6108, 5970]
891	[1616, 1617]	2932	[4331, 4324]	4973	[6177, 6178]	7014	[7590, 1076]
892	[1120, 1618]	2933	[1779, 4332]	4974	[6179, 1273]	7015	[5963, 948]
893	[1619, 1620]	2934	[4248, 4333]	4975	[6180, 6181]	7016	[7591, 6207]
894	[1621, 1622]	2935	[4334, 4326]	4976	[6182, 1334]	7017	[1225, 348]
895	[1623, 1624]	2936	[4335, 4336]	4977	[6183, 293]	7018	[7592, 3003]
896	[1625, 1626]	2937	[4337, 837]	4978	[6184, 2904]	7019	[7593, 1161]
897	[1627, 472]	2938	[4338, 1920]	4979	[6000, 1625]	7020	[7594, 3250]
898	[1628, 1629]	2939	[828, 4339]	4980	[5512, 2907]	7021	[7595, 1336]
899	[1630, 1631]	2940	[2315, 239]	4981	[6185, 2989]	7022	[7596, 3616]
900	[1632, 1633]	2941	[4340, 2334]	4982	[6186, 5950]	7023	[7597, 1000]
901	[1634, 1635]	2942	[4341, 4165]	4983	[6187, 3473]	7024	[7598, 4034]
902	[1526, 69]	2943	[656, 4342]	4984	[6188, 2909]	7025	[5730, 3837]
903	[1636, 1507]	2944	[204, 4343]	4985	[5930, 1545]	7026	[6087, 2834]
904	[1637, 1638]	2945	[4344, 4152]	4986	[6189, 5573]	7027	[7599, 3486]
905	[1194, 285]	2946	[4345, 4309]	4987	[6190, 3592]	7028	[3354, 5495]
906	[1639, 1640]	2947	[4346, 4347]	4988	[3372, 3670]	7029	[7600, 1502]
907	[1641, 1642]	2948	[4348, 4349]	4989	[6191, 1136]	7030	[7601, 3638]
908	[28, 1302]	2949	[2151, 4253]	4990	[6192, 3877]	7031	[1106, 2764]
909	[1643, 1617]	2950	[4350, 2653]	4991	[6181, 3283]	7032	[1478, 3893]
910	[1644, 1645]	2951	[4351, 2641]	4992	[3751, 3226]	7033	[7602, 295]
911	[1646, 336]	2952	[4121, 2005]	4993	[6193, 3254]	7034	[7603, 6369]
912	[971, 1647]	2953	[4352, 2709]	4994	[6194, 5684]	7035	[7604, 2899]
913	[1315, 1648]	2954	[4353, 787]	4995	[6069, 1067]	7036	[7605, 5810]
914	[1318, 1649]	2955	[4354, 4355]	4996	[6195, 1337]	7037	[2979, 3423]
915	[1650, 1651]	2956	[1906, 2213]	4997	[6196, 3223]	7038	[1343, 3642]
916	[1652, 1653]	2957	[2280, 4356]	4998	[6197, 5636]	7039	[1494, 3150]
917	[1567, 1654]	2958	[2725, 645]	4999	[5974, 3017]	7040	[6278, 1640]
918	[1655, 1656]	2959	[4357, 4358]	5000	[6198, 3702]	7041	[7606, 2858]
919	[1657, 1658]	2960	[4359, 2068]	5001	[5985, 3456]	7042	[7607, 3004]
920	[1659, 1427]	2961	[4360, 1900]	5002	[6199, 3403]	7043	[7608, 3923]
921	[1660, 662]	2962	[4361, 841]	5003	[6200, 3518]	7044	[7609, 5610]
922	[1661, 1662]	2963	[1987, 4362]	5004	[299, 3833]	7045	[3090, 1274]

923	[1663, 1664]	2964	[1989, 755]	5005	[2858, 6201]	7046	[1528, 2847]
924	[1665, 1666]	2965	[1934, 4363]	5006	[6202, 3694]	7047	[7610, 1504]
925	[1667, 1668]	2966	[127, 4364]	5007	[6203, 1300]	7048	[7611, 89]
926	[1669, 1670]	2967	[143, 4365]	5008	[6204, 6201]	7049	[7612, 485]
927	[1671, 1672]	2968	[4366, 2694]	5009	[6205, 6206]	7050	[3087, 308]
928	[1673, 1674]	2969	[4367, 4368]	5010	[6207, 5541]	7051	[7613, 471]
929	[1675, 1676]	2970	[4369, 544]	5011	[6208, 1427]	7052	[6096, 7351]
930	[1677, 1678]	2971	[4370, 2039]	5012	[3045, 3706]	7053	[7614, 5722]
931	[1679, 1680]	2972	[4371, 2171]	5013	[1134, 6209]	7054	[7615, 1578]
932	[1681, 1682]	2973	[4372, 4363]	5014	[6210, 1425]	7055	[1434, 5457]
933	[1683, 1684]	2974	[4373, 4374]	5015	[4080, 3134]	7056	[4047, 66]
934	[1685, 1686]	2975	[2346, 1706]	5016	[6211, 6176]	7057	[7616, 3641]
935	[1687, 1688]	2976	[559, 2139]	5017	[92, 5803]	7058	[7617, 1247]
936	[1689, 1690]	2977	[4375, 763]	5018	[6212, 963]	7059	[3638, 3431]
937	[1691, 1692]	2978	[4376, 4215]	5019	[6213, 5789]	7060	[7618, 1264]
938	[1693, 1694]	2979	[4377, 4378]	5020	[6214, 1209]	7061	[6450, 1641]
939	[1695, 1696]	2980	[2472, 1735]	5021	[6215, 1340]	7062	[5701, 2981]
940	[1697, 1698]	2981	[4379, 4380]	5022	[6216, 4060]	7063	[7619, 1195]
941	[1699, 1700]	2982	[4381, 4382]	5023	[6217, 86]	7064	[1163, 277]
942	[1701, 881]	2983	[4383, 4384]	5024	[6218, 3744]	7065	[7620, 5745]
943	[1702, 1703]	2984	[518, 2591]	5025	[973, 5980]	7066	[7414, 3373]
944	[1704, 1705]	2985	[4385, 60]	5026	[6219, 1553]	7067	[7621, 3729]
945	[1706, 1707]	2986	[2482, 540]	5027	[6220, 1035]	7068	[3510, 7622]
946	[1708, 1709]	2987	[4386, 4315]	5028	[262, 3003]	7069	[7623, 6487]
947	[1710, 1711]	2988	[4387, 4388]	5029	[5937, 6221]	7070	[7624, 5494]
948	[1712, 1713]	2989	[4389, 4390]	5030	[1138, 3753]	7071	[7625, 2798]
949	[1714, 1715]	2990	[4124, 2422]	5031	[6222, 3107]	7072	[7626, 2809]
950	[1716, 911]	2991	[4391, 4392]	5032	[6223, 1609]	7073	[7627, 3226]
951	[1717, 1718]	2992	[4393, 4394]	5033	[6224, 1251]	7074	[5604, 3242]
952	[1719, 1720]	2993	[676, 4395]	5034	[6225, 5881]	7075	[7628, 1293]
953	[1721, 1722]	2994	[4396, 1896]	5035	[371, 1634]	7076	[7629, 109]
954	[1723, 1724]	2995	[4397, 4398]	5036	[5811, 5534]	7077	[7630, 3007]
955	[1725, 1726]	2996	[4399, 4400]	5037	[3785, 6226]	7078	[7631, 113]
956	[1727, 1728]	2997	[4401, 4402]	5038	[6227, 6228]	7079	[7632, 6053]
957	[1729, 1730]	2998	[4403, 4404]	5039	[6229, 1479]	7080	[7633, 2812]
958	[1731, 1732]	2999	[2300, 1914]	5040	[6230, 5461]	7081	[3201, 378]
959	[1733, 1734]	3000	[4405, 528]	5041	[1430, 322]	7082	[4012, 935]
960	[1735, 1736]	3001	[4406, 4407]	5042	[3706, 1356]	7083	[7634, 3881]
961	[1737, 616]	3002	[1743, 2283]	5043	[6231, 3924]	7084	[7635, 5742]
962	[1738, 1739]	3003	[4408, 4409]	5044	[6232, 250]	7085	[4041, 1243]
963	[1740, 194]	3004	[2349, 4410]	5045	[2985, 5716]	7086	[1294, 3607]
964	[1741, 1742]	3005	[4411, 2232]	5046	[5845, 5713]	7087	[7636, 357]
965	[217, 1743]	3006	[2635, 4317]	5047	[6233, 3410]	7088	[7637, 2846]
966	[1678, 1744]	3007	[4412, 4413]	5048	[6234, 5877]	7089	[7638, 972]

967	[1745, 1746]	3008	[4414, 4415]	5049	[6051, 1224]	7090	[5970, 297]
968	[1747, 1748]	3009	[4416, 4417]	5050	[6235, 2974]	7091	[7639, 929]
969	[1749, 1750]	3010	[4418, 4419]	5051	[3576, 1019]	7092	[6318, 7417]
970	[1751, 1752]	3011	[4420, 2509]	5052	[6236, 2933]	7093	[1557, 3443]
971	[1753, 1754]	3012	[4421, 4422]	5053	[6237, 1481]	7094	[3707, 3676]
972	[1755, 1756]	3013	[4423, 4424]	5054	[5610, 6238]	7095	[7304, 6450]
973	[1757, 1758]	3014	[4425, 902]	5055	[6239, 3789]	7096	[1041, 2807]
974	[664, 1759]	3015	[4426, 2212]	5056	[1017, 3106]	7097	[7640, 3252]
975	[1760, 1761]	3016	[4427, 4245]	5057	[6240, 2908]	7098	[7641, 1634]
976	[1762, 504]	3017	[4428, 200]	5058	[6241, 6165]	7099	[7642, 1382]
977	[169, 1763]	3018	[853, 866]	5059	[6242, 3244]	7100	[6055, 1374]
978	[1764, 1765]	3019	[2000, 2672]	5060	[6243, 29]	7101	[7643, 7386]
979	[1766, 1767]	3020	[2711, 4189]	5061	[391, 3867]	7102	[7644, 3434]
980	[1768, 1769]	3021	[4222, 4297]	5062	[5776, 3585]	7103	[7645, 1305]
981	[1770, 1771]	3022	[4429, 774]	5063	[6244, 1205]	7104	[7646, 1485]
982	[1772, 1773]	3023	[4430, 4431]	5064	[6245, 3068]	7105	[1338, 3099]
983	[1774, 1775]	3024	[4432, 2434]	5065	[408, 3801]	7106	[992, 2783]
984	[1776, 1777]	3025	[4433, 1792]	5066	[351, 5543]	7107	[1320, 2774]
985	[1778, 1779]	3026	[4434, 1728]	5067	[3795, 3886]	7108	[7647, 1560]
986	[1780, 1774]	3027	[1761, 203]	5068	[6246, 1411]	7109	[1408, 2878]
987	[1781, 1782]	3028	[4148, 845]	5069	[6247, 5635]	7110	[3776, 4048]
988	[1783, 1784]	3029	[4435, 1752]	5070	[3189, 3260]	7111	[7648, 3062]
989	[1785, 1786]	3030	[4436, 4437]	5071	[5494, 3043]	7112	[7649, 6038]
990	[1787, 1788]	3031	[4438, 4439]	5072	[6248, 3255]	7113	[7650, 1470]
991	[1789, 1790]	3032	[4440, 1704]	5073	[3737, 6038]	7114	[3970, 921]
992	[1791, 1785]	3033	[4441, 2029]	5074	[3519, 3895]	7115	[1277, 6363]
993	[744, 1792]	3034	[4442, 2586]	5075	[6249, 2791]	7116	[6403, 1055]
994	[1793, 1794]	3035	[4443, 2217]	5076	[6250, 1139]	7117	[3739, 1370]
995	[1795, 1796]	3036	[4117, 4444]	5077	[6251, 3341]	7118	[7651, 5583]
996	[1797, 1798]	3037	[4126, 2175]	5078	[1078, 4098]	7119	[5637, 6293]
997	[1799, 1800]	3038	[4445, 4446]	5079	[6252, 3271]	7120	[7652, 3189]
998	[899, 1801]	3039	[2398, 227]	5080	[6253, 1285]	7121	[7653, 1575]
999	[577, 1802]	3040	[4447, 2078]	5081	[6254, 6255]	7122	[7654, 3599]
1000	[32, 1803]	3041	[4448, 894]	5082	[6256, 3157]	7123	[3491, 5676]
1001	[36, 1804]	3042	[4449, 2330]	5083	[6257, 1003]	7124	[7655, 5760]
1002	[40, 1805]	3043	[4450, 1850]	5084	[3905, 3965]	7125	[5552, 6456]
1003	[44, 1806]	3044	[4451, 648]	5085	[6258, 1618]	7126	[5633, 3254]
1004	[1807, 1808]	3045	[4452, 2598]	5086	[6259, 3355]	7127	[7656, 2907]
1005	[1809, 1810]	3046	[4453, 554]	5087	[6260, 1196]	7128	[6065, 2820]
1006	[1811, 649]	3047	[697, 4454]	5088	[270, 6261]	7129	[7657, 1301]
1007	[1812, 1813]	3048	[4455, 1806]	5089	[3448, 3437]	7130	[3337, 1362]
1008	[1814, 1815]	3049	[2404, 4456]	5090	[6262, 3103]	7131	[7658, 1140]
1009	[1816, 1817]	3050	[2272, 2677]	5091	[3590, 1463]	7132	[7659, 3462]
1010	[1818, 1819]	3051	[4457, 4458]	5092	[1300, 6263]	7133	[7660, 3709]

1011	[1820, 1821]	3052	[4459, 4460]	5093	[6264, 2827]	7134	[7661, 6054]
1012	[1822, 1823]	3053	[4461, 4462]	5094	[6265, 6041]	7135	[2908, 1232]
1013	[1824, 1825]	3054	[4463, 1774]	5095	[3258, 3320]	7136	[6335, 6231]
1014	[1826, 1827]	3055	[4324, 4462]	5096	[5739, 5880]	7137	[3070, 4022]
1015	[1828, 1829]	3056	[4464, 4465]	5097	[3270, 1152]	7138	[7662, 7622]
1016	[1830, 1831]	3057	[1724, 4466]	5098	[6266, 1156]	7139	[7663, 6161]
1017	[1832, 1833]	3058	[4467, 1959]	5099	[1600, 3330]	7140	[5646, 1155]
1018	[1834, 1835]	3059	[1930, 4255]	5100	[6267, 3424]	7141	[3055, 7293]
1019	[1836, 1837]	3060	[1690, 2543]	5101	[6268, 3284]	7142	[3172, 3798]
1020	[1838, 196]	3061	[4167, 2385]	5102	[5597, 5521]	7143	[7664, 3725]
1021	[1715, 1839]	3062	[4275, 2282]	5103	[6269, 3934]	7144	[7665, 2930]
1022	[1840, 1841]	3063	[4468, 2055]	5104	[3743, 1426]	7145	[3468, 1289]
1023	[1842, 717]	3064	[2702, 2377]	5105	[6270, 341]	7146	[1279, 5879]
1024	[835, 1843]	3065	[4469, 2693]	5106	[6271, 985]	7147	[5744, 5730]
1025	[1844, 1845]	3066	[4470, 4471]	5107	[6272, 5564]	7148	[7666, 998]
1026	[903, 1846]	3067	[4472, 4473]	5108	[6273, 1183]	7149	[7667, 2843]
1027	[1847, 1848]	3068	[4474, 208]	5109	[6274, 3028]	7150	[5925, 2830]
1028	[662, 1849]	3069	[4475, 798]	5110	[6275, 364]	7151	[3987, 5988]
1029	[1664, 1820]	3070	[4137, 4476]	5111	[6276, 1061]	7152	[5852, 3994]
1030	[1688, 1850]	3071	[2609, 694]	5112	[6277, 4017]	7153	[7668, 3207]
1031	[1851, 1852]	3072	[4477, 204]	5113	[389, 6173]	7154	[5773, 332]
1032	[1853, 202]	3073	[4478, 797]	5114	[5752, 346]	7155	[3141, 1326]
1033	[1854, 1855]	3074	[4479, 4235]	5115	[932, 6278]	7156	[1227, 5581]
1034	[1758, 1856]	3075	[4480, 2086]	5116	[6279, 1409]	7157	[7669, 966]
1035	[1857, 1858]	3076	[2172, 2610]	5117	[6280, 3222]	7158	[7670, 3523]
1036	[1859, 1860]	3077	[4481, 4482]	5118	[1308, 6281]	7159	[3308, 3849]
1037	[1861, 1862]	3078	[2481, 4483]	5119	[5792, 5516]	7160	[6144, 6384]
1038	[1863, 1864]	3079	[4484, 4131]	5120	[6282, 939]	7161	[7671, 1327]
1039	[1865, 62]	3080	[4485, 4486]	5121	[6283, 3025]	7162	[1247, 1311]
1040	[1866, 1867]	3081	[4487, 4488]	5122	[6284, 6087]	7163	[6226, 3735]
1041	[1868, 1869]	3082	[2613, 813]	5123	[6285, 3939]	7164	[7672, 1369]
1042	[1870, 1871]	3083	[4489, 232]	5124	[6286, 2874]	7165	[7673, 2856]
1043	[1872, 1760]	3084	[2090, 896]	5125	[3512, 1514]	7166	[1624, 5468]
1044	[1873, 1874]	3085	[4490, 4482]	5126	[353, 3901]	7167	[5980, 3186]
1045	[1875, 1721]	3086	[1915, 2437]	5127	[6287, 1109]	7168	[7674, 1343]
1046	[1876, 1877]	3087	[2747, 739]	5128	[3064, 1014]	7169	[7675, 468]
1047	[1878, 1879]	3088	[4491, 4492]	5129	[3033, 3576]	7170	[5706, 3068]
1048	[1880, 1881]	3089	[4493, 4494]	5130	[6288, 5646]	7171	[7676, 420]
1049	[1882, 169]	3090	[4495, 4362]	5131	[6289, 2936]	7172	[1186, 7304]
1050	[1883, 1884]	3091	[670, 4496]	5132	[6290, 372]	7173	[3639, 5489]
1051	[1885, 1698]	3092	[625, 4497]	5133	[3460, 1209]	7174	[3627, 3630]
1052	[1886, 1887]	3093	[4498, 4499]	5134	[6291, 473]	7175	[7677, 2794]
1053	[1888, 1889]	3094	[4500, 4199]	5135	[6292, 6293]	7176	[5789, 3221]
1054	[1890, 1891]	3095	[4501, 1862]	5136	[6294, 3847]	7177	[6103, 3815]

1055	[1892, 582]	3096	[4502, 2045]	5137	[6295, 117]	7178	[410, 6313]
1056	[1893, 1894]	3097	[4503, 1664]	5138	[6296, 1425]	7179	[7678, 5989]
1057	[1895, 1896]	3098	[4504, 4505]	5139	[3864, 6297]	7180	[5460, 2936]
1058	[1897, 1673]	3099	[4506, 2171]	5140	[1144, 1366]	7181	[7679, 964]
1059	[1898, 1899]	3100	[4507, 4508]	5141	[6298, 3066]	7182	[7680, 75]
1060	[1900, 731]	3101	[4509, 4510]	5142	[3227, 6299]	7183	[3279, 1245]
1061	[1901, 1902]	3102	[4511, 885]	5143	[1492, 1554]	7184	[7681, 3995]
1062	[1903, 1904]	3103	[4512, 2170]	5144	[6300, 2795]	7185	[7682, 974]
1063	[1905, 1906]	3104	[4513, 1927]	5145	[6301, 3745]	7186	[7683, 6760]
1064	[1907, 1908]	3105	[4514, 4515]	5146	[5464, 6302]	7187	[7684, 1557]
1065	[1909, 1910]	3106	[1831, 4373]	5147	[424, 108]	7188	[1416, 3257]
1066	[1911, 161]	3107	[4516, 4517]	5148	[3473, 5731]	7189	[7685, 103]
1067	[1912, 1913]	3108	[4518, 2313]	5149	[6303, 3664]	7190	[949, 1020]
1068	[1914, 1915]	3109	[4519, 4520]	5150	[5972, 1006]	7191	[3400, 3067]
1069	[1916, 1917]	3110	[4521, 1920]	5151	[6304, 6261]	7192	[3316, 3719]
1070	[1918, 1919]	3111	[4522, 4523]	5152	[277, 2886]	7193	[7686, 3288]
1071	[1920, 693]	3112	[2589, 4409]	5153	[6305, 6306]	7194	[5722, 3460]
1072	[1921, 1922]	3113	[4524, 4525]	5154	[6307, 3487]	7195	[7687, 5917]
1073	[1705, 1923]	3114	[4526, 2405]	5155	[6308, 6103]	7196	[1035, 5826]
1074	[1924, 803]	3115	[2094, 4453]	5156	[3209, 5593]	7197	[7688, 114]
1075	[1925, 1926]	3116	[4527, 1968]	5157	[6309, 1048]	7198	[7689, 5748]
1076	[1927, 1928]	3117	[551, 4528]	5158	[6310, 5644]	7199	[2815, 7359]
1077	[1929, 1930]	3118	[4529, 2104]	5159	[6311, 6297]	7200	[7690, 5664]
1078	[1931, 1932]	3119	[4530, 4531]	5160	[947, 6105]	7201	[7691, 3762]
1079	[1933, 1934]	3120	[4532, 2670]	5161	[5916, 1128]	7202	[1275, 6096]
1080	[1935, 1936]	3121	[4392, 4533]	5162	[6312, 5499]	7203	[7692, 2953]
1081	[1937, 1938]	3122	[4395, 4534]	5163	[3093, 6163]	7204	[7693, 995]
1082	[1939, 1940]	3123	[2688, 582]	5164	[6313, 6019]	7205	[3255, 1219]
1083	[1941, 1942]	3124	[4535, 4536]	5165	[6314, 1280]	7206	[7694, 3076]
1084	[1943, 890]	3125	[4537, 4538]	5166	[6315, 2987]	7207	[7695, 428]
1085	[1944, 1945]	3126	[4539, 4540]	5167	[6316, 3287]	7208	[7696, 7387]
1086	[1946, 1947]	3127	[4465, 4421]	5168	[6317, 1455]	7209	[1053, 3468]
1087	[1948, 1949]	3128	[4541, 4542]	5169	[264, 6318]	7210	[7697, 3565]
1088	[1950, 1754]	3129	[1902, 2362]	5170	[1587, 6319]	7211	[6238, 4066]
1089	[1951, 1769]	3130	[4543, 4415]	5171	[6320, 316]	7212	[7698, 6377]
1090	[1952, 884]	3131	[1867, 213]	5172	[6321, 2781]	7213	[7699, 1296]
1091	[1953, 1954]	3132	[4544, 4545]	5173	[6322, 3067]	7214	[7700, 3876]
1092	[1955, 1956]	3133	[4546, 4547]	5174	[3092, 5854]	7215	[7701, 3824]
1093	[1754, 887]	3134	[4548, 4413]	5175	[6323, 3389]	7216	[7702, 1120]
1094	[1957, 1958]	3135	[4549, 2296]	5176	[5894, 3146]	7217	[7703, 2810]
1095	[1959, 1960]	3136	[4550, 216]	5177	[1114, 5858]	7218	[6255, 2973]
1096	[1961, 1962]	3137	[4551, 4552]	5178	[3218, 3880]	7219	[7704, 3984]
1097	[1963, 1964]	3138	[4553, 4292]	5179	[3815, 114]	7220	[3366, 3838]
1098	[1965, 778]	3139	[4554, 4555]	5180	[6324, 1432]	7221	[3037, 3022]

1099	[177, 1966]	3140	[591, 4556]	5181	[6325, 5880]	7222	[7705, 1407]
1100	[1967, 1968]	3141	[4557, 1996]	5182	[6326, 104]	7223	[6487, 1525]
1101	[545, 1969]	3142	[4558, 4559]	5183	[3967, 1511]	7224	[7706, 3112]
1102	[1970, 1971]	3143	[4560, 2747]	5184	[6327, 2978]	7225	[7707, 5680]
1103	[1972, 1973]	3144	[4356, 4435]	5185	[6328, 1628]	7226	[3242, 1172]
1104	[1974, 1975]	3145	[4561, 1707]	5186	[6329, 3447]	7227	[7708, 1607]
1105	[1976, 1977]	3146	[4562, 4563]	5187	[6330, 275]	7228	[1595, 951]
1106	[1978, 1979]	3147	[4564, 1830]	5188	[6331, 5793]	7229	[1072, 291]
1107	[1980, 1981]	3148	[2230, 4565]	5189	[6332, 1189]	7230	[6161, 5749]
1108	[1982, 1983]	3149	[4566, 4567]	5190	[6333, 5873]	7231	[7709, 333]
1109	[857, 1984]	3150	[4568, 2629]	5191	[6334, 3377]	7232	[7710, 1431]
1110	[1985, 1986]	3151	[8, 529]	5192	[3085, 3635]	7233	[1543, 5657]
1111	[155, 1987]	3152	[10, 531]	5193	[3897, 6335]	7234	[7711, 4035]
1112	[1988, 1989]	3153	[4569, 4570]	5194	[6336, 5688]	7235	[7712, 4090]
1113	[1990, 1991]	3154	[4571, 4572]	5195	[6337, 6338]	7236	[260, 962]
1114	[1992, 1729]	3155	[4573, 2544]	5196	[6339, 1006]	7237	[2895, 6060]
1115	[1750, 1993]	3156	[4574, 4575]	5197	[3118, 3521]	7238	[7713, 5804]
1116	[1994, 191]	3157	[4189, 4576]	5198	[283, 3771]	7239	[3469, 3602]
1117	[1995, 1996]	3158	[4577, 4578]	5199	[1357, 976]	7240	[3228, 1493]
1118	[1997, 882]	3159	[4579, 4580]	5200	[1124, 450]	7241	[7714, 3413]
1119	[1998, 1999]	3160	[4581, 4414]	5201	[6340, 3974]	7242	[7715, 3006]
1120	[246, 2000]	3161	[4582, 2682]	5202	[6341, 1056]	7243	[3281, 1402]
1121	[798, 1770]	3162	[4583, 4584]	5203	[6342, 2963]	7244	[271, 1053]
1122	[2001, 2002]	3163	[1908, 4447]	5204	[6343, 1231]	7245	[7716, 1028]
1123	[183, 2003]	3164	[4585, 2160]	5205	[6344, 1064]	7246	[7717, 1659]
1124	[2004, 856]	3165	[4586, 4587]	5206	[6345, 6346]	7247	[7718, 2828]
1125	[2005, 2006]	3166	[4588, 2736]	5207	[3998, 3840]	7248	[2919, 5674]
1126	[603, 2007]	3167	[4358, 4589]	5208	[6347, 4089]	7249	[7719, 3770]
1127	[2008, 1874]	3168	[4590, 4591]	5209	[6348, 466]	7250	[1110, 1512]
1128	[2009, 2010]	3169	[4592, 2501]	5210	[3211, 946]	7251	[1039, 3476]
1129	[2011, 2012]	3170	[4593, 4438]	5211	[6349, 3501]	7252	[7720, 2759]
1130	[2013, 2014]	3171	[4594, 159]	5212	[6350, 352]	7253	[7721, 3316]
1131	[2015, 2016]	3172	[4595, 205]	5213	[3984, 6351]	7254	[7722, 2813]
1132	[2017, 2018]	3173	[4596, 899]	5214	[1559, 3203]	7255	[7723, 3055]
1133	[2007, 2019]	3174	[4597, 4598]	5215	[6352, 1072]	7256	[7724, 1024]
1134	[2020, 882]	3175	[601, 4599]	5216	[6353, 1562]	7257	[7622, 6144]
1135	[2021, 2022]	3176	[4600, 801]	5217	[6354, 3973]	7258	[7725, 393]
1136	[2023, 753]	3177	[4601, 4602]	5218	[1235, 1563]	7259	[7726, 2822]
1137	[2024, 500]	3178	[4603, 131]	5219	[106, 3914]	7260	[3652, 3951]
1138	[243, 2025]	3179	[4604, 4605]	5220	[6355, 5960]	7261	[7727, 1114]
1139	[2026, 2027]	3180	[4606, 4607]	5221	[4084, 1331]	7262	[1360, 1611]
1140	[2028, 2029]	3181	[4608, 1954]	5222	[6356, 3270]	7263	[3919, 3776]
1141	[2030, 2031]	3182	[4609, 1757]	5223	[1603, 1200]	7264	[7728, 1544]
1142	[1841, 2032]	3183	[4610, 4359]	5224	[6357, 936]	7265	[7729, 983]

1143	[2033, 2034]	3184	[4382, 2049]	5225	[6358, 5826]	7266	[7730, 3138]
1144	[2035, 2036]	3185	[4611, 4612]	5226	[6359, 5778]	7267	[3162, 3470]
1145	[2037, 2038]	3186	[4613, 4614]	5227	[6360, 5925]	7268	[6045, 1559]
1146	[2039, 769]	3187	[1684, 2235]	5228	[6361, 3063]	7269	[3965, 5563]
1147	[2040, 2041]	3188	[4615, 2400]	5229	[6362, 1104]	7270	[7731, 2927]
1148	[2042, 2043]	3189	[4255, 2397]	5230	[1633, 1220]	7271	[268, 6176]
1149	[2044, 2045]	3190	[4616, 1784]	5231	[6363, 5506]	7272	[7369, 3363]
1150	[2046, 2047]	3191	[4617, 4353]	5232	[6364, 2839]	7273	[7732, 310]
1151	[2048, 2049]	3192	[4618, 1974]	5233	[6365, 3030]	7274	[3992, 1614]
1152	[2050, 2012]	3193	[2379, 4184]	5234	[3604, 6077]	7275	[3123, 298]
1153	[2051, 1719]	3194	[4619, 920]	5235	[6366, 5937]	7276	[1475, 5554]
1154	[2052, 2053]	3195	[2344, 488]	5236	[6367, 3860]	7277	[6512, 2873]
1155	[2054, 2055]	3196	[4620, 2044]	5237	[6098, 5819]	7278	[527, 7048]
1156	[2056, 583]	3197	[4621, 184]	5238	[6368, 5481]	7279	[5225, 6929]
1157	[2057, 1703]	3198	[1896, 2621]	5239	[2866, 3547]	7280	[7733, 6664]
1158	[2058, 2059]	3199	[4622, 4623]	5240	[1638, 6369]	7281	[7734, 2011]
1159	[2060, 1724]	3200	[4624, 4625]	5241	[6370, 123]	7282	[7735, 822]
1160	[2061, 2062]	3201	[4626, 2667]	5242	[6371, 6351]	7283	[7736, 2402]
1161	[2063, 2064]	3202	[4627, 4259]	5243	[2798, 382]	7284	[185, 4520]
1162	[2065, 2066]	3203	[4628, 534]	5244	[6209, 1573]	7285	[7737, 2537]
1163	[2067, 2068]	3204	[883, 4629]	5245	[6372, 1576]	7286	[7738, 4494]
1164	[2069, 739]	3205	[4630, 33]	5246	[6077, 107]	7287	[7739, 7740]
1165	[2070, 2071]	3206	[4631, 4632]	5247	[6373, 1517]	7288	[7741, 2602]
1166	[2072, 2073]	3207	[542, 4437]	5248	[6374, 3782]	7289	[2138, 4918]
1167	[2074, 2075]	3208	[1849, 2247]	5249	[6375, 5615]	7290	[7742, 4280]
1168	[2076, 2077]	3209	[4633, 1820]	5250	[6376, 3452]	7291	[1821, 4514]
1169	[2078, 2079]	3210	[736, 4167]	5251	[6263, 355]	7292	[181, 6646]
1170	[894, 2080]	3211	[4488, 2144]	5252	[6377, 3526]	7293	[7743, 4323]
1171	[2081, 2082]	3212	[4634, 2614]	5253	[6378, 1610]	7294	[7744, 1673]
1172	[2083, 10]	3213	[4635, 2000]	5254	[1394, 5487]	7295	[4715, 5288]
1173	[2084, 1827]	3214	[4636, 553]	5255	[3772, 5555]	7296	[7215, 5122]
1174	[2085, 2086]	3215	[4637, 827]	5256	[2840, 1496]	7297	[7745, 4823]
1175	[2087, 585]	3216	[4638, 4639]	5257	[6379, 2778]	7298	[4705, 521]
1176	[2088, 1858]	3217	[4640, 4641]	5258	[2977, 2822]	7299	[7746, 6936]
1177	[2089, 2090]	3218	[4642, 1739]	5259	[5543, 2977]	7300	[6781, 6671]
1178	[2091, 2092]	3219	[4643, 4644]	5260	[2962, 6380]	7301	[6579, 4967]
1179	[2093, 2094]	3220	[4645, 237]	5261	[3872, 5576]	7302	[7747, 1921]
1180	[2095, 2096]	3221	[4646, 555]	5262	[3883, 6346]	7303	[6779, 838]
1181	[1936, 2097]	3222	[4647, 4648]	5263	[6381, 3743]	7304	[7748, 2327]
1182	[2098, 1909]	3223	[4649, 2303]	5264	[5803, 3238]	7305	[7749, 52]
1183	[2099, 901]	3224	[1942, 4650]	5265	[6382, 3826]	7306	[4293, 7118]
1184	[2100, 734]	3225	[4651, 2306]	5266	[6383, 6384]	7307	[7750, 7751]
1185	[2101, 2102]	3226	[4652, 4653]	5267	[6385, 1551]	7308	[881, 4617]
1186	[2103, 636]	3227	[4654, 2246]	5268	[6386, 1188]	7309	[7752, 2643]

1187	[2032, 2104]	3228	[589, 4655]	5269	[6387, 5749]	7310	[7753, 2204]
1188	[2105, 2106]	3229	[4656, 859]	5270	[4018, 5527]	7311	[6545, 7754]
1189	[2107, 2108]	3230	[4657, 4349]	5271	[6388, 5551]	7312	[4218, 4560]
1190	[2109, 556]	3231	[4233, 4658]	5272	[5564, 1595]	7313	[7755, 634]
1191	[2110, 2111]	3232	[4264, 2022]	5273	[6389, 2826]	7314	[7756, 31]
1192	[2112, 1715]	3233	[4659, 4191]	5274	[6390, 6391]	7315	[7757, 631]
1193	[1672, 2113]	3234	[1975, 1992]	5275	[1092, 6392]	7316	[1805, 6552]
1194	[2114, 2115]	3235	[1947, 2531]	5276	[6393, 3070]	7317	[695, 2129]
1195	[2116, 2117]	3236	[4660, 4642]	5277	[6394, 996]	7318	[5117, 4262]
1196	[2118, 1670]	3237	[4661, 4662]	5278	[961, 3980]	7319	[4644, 5324]
1197	[2119, 2120]	3238	[4663, 695]	5279	[3364, 3033]	7320	[7758, 4545]
1198	[2121, 1662]	3239	[2491, 4664]	5280	[1629, 1309]	7321	[5249, 4553]
1199	[2122, 598]	3240	[831, 2189]	5281	[6395, 445]	7322	[7759, 1680]
1200	[2123, 914]	3241	[4665, 4666]	5282	[5881, 2898]	7323	[4687, 7049]
1201	[2124, 1880]	3242	[4667, 4668]	5283	[6396, 1307]	7324	[7760, 4588]
1202	[2125, 2126]	3243	[4669, 2462]	5284	[6397, 1508]	7325	[7761, 4127]
1203	[2127, 2128]	3244	[1782, 2686]	5285	[3223, 5896]	7326	[7762, 5076]
1204	[2129, 2130]	3245	[4670, 2269]	5286	[6398, 5718]	7327	[1771, 2681]
1205	[2131, 2132]	3246	[4671, 1830]	5287	[6338, 1587]	7328	[7763, 7001]
1206	[2133, 2134]	3247	[4672, 830]	5288	[6399, 1040]	7329	[7764, 7127]
1207	[2135, 2136]	3248	[4673, 2341]	5289	[6400, 3351]	7330	[4128, 2446]
1208	[2137, 1886]	3249	[4380, 1785]	5290	[3644, 3340]	7331	[7004, 5058]
1209	[874, 2138]	3250	[4674, 1973]	5291	[6401, 6019]	7332	[2214, 4998]
1210	[2139, 2140]	3251	[4675, 788]	5292	[6402, 6403]	7333	[7765, 7201]
1211	[2141, 2142]	3252	[4486, 2629]	5293	[464, 3246]	7334	[7766, 2379]
1212	[2143, 2144]	3253	[221, 4676]	5294	[6404, 1538]	7335	[7767, 1910]
1213	[2145, 504]	3254	[4677, 248]	5295	[6405, 1367]	7336	[5066, 2146]
1214	[2146, 2147]	3255	[4678, 4679]	5296	[6406, 6335]	7337	[2336, 5217]
1215	[2148, 2149]	3256	[4680, 775]	5297	[6407, 6226]	7338	[7768, 6623]
1216	[194, 1990]	3257	[4681, 4192]	5298	[6408, 3532]	7339	[4598, 1701]
1217	[2150, 2151]	3258	[4682, 4542]	5299	[6409, 5854]	7340	[7769, 2718]
1218	[2152, 2153]	3259	[4683, 2395]	5300	[6410, 465]	7341	[7770, 4654]
1219	[2154, 559]	3260	[4684, 2399]	5301	[6411, 2996]	7342	[7771, 4307]
1220	[2155, 2156]	3261	[2029, 2548]	5302	[3710, 3555]	7343	[7772, 7132]
1221	[2157, 158]	3262	[4685, 1987]	5303	[6412, 3534]	7344	[4290, 5194]
1222	[2158, 2159]	3263	[4686, 2142]	5304	[6413, 2898]	7345	[4742, 2537]
1223	[2160, 2161]	3264	[2423, 4169]	5305	[6414, 1213]	7346	[7773, 4281]
1224	[2162, 2163]	3265	[2016, 4687]	5306	[1174, 3597]	7347	[7774, 2576]
1225	[2164, 2165]	3266	[4437, 215]	5307	[1215, 3041]	7348	[7775, 4682]
1226	[2166, 2167]	3267	[4688, 4689]	5308	[2904, 5604]	7349	[4415, 4861]
1227	[2168, 863]	3268	[4690, 45]	5309	[379, 1010]	7350	[7776, 4469]
1228	[876, 1917]	3269	[4691, 2337]	5310	[6415, 1204]	7351	[7777, 1764]
1229	[2169, 2170]	3270	[4692, 664]	5311	[6416, 3161]	7352	[7778, 6921]
1230	[2171, 2172]	3271	[799, 130]	5312	[6417, 1649]	7353	[2510, 764]

1231	[2173, 658]	3272	[231, 4693]	5313	[3677, 933]	7354	[7779, 4527]
1232	[2174, 2175]	3273	[822, 4171]	5314	[6418, 3122]	7355	[7780, 867]
1233	[2176, 2177]	3274	[2558, 4694]	5315	[3328, 1473]	7356	[636, 7053]
1234	[2178, 2179]	3275	[710, 604]	5316	[6419, 5471]	7357	[7781, 6634]
1235	[2180, 46]	3276	[4695, 606]	5317	[6420, 3195]	7358	[2259, 2717]
1236	[2181, 2182]	3277	[4696, 4697]	5318	[6421, 5783]	7359	[7782, 157]
1237	[2183, 2184]	3278	[4698, 4390]	5319	[6422, 5561]	7360	[7783, 4861]
1238	[2185, 2186]	3279	[4699, 4700]	5320	[1172, 6403]	7361	[7784, 6922]
1239	[2187, 1992]	3280	[4701, 1706]	5321	[337, 5557]	7362	[4694, 2100]
1240	[2188, 1934]	3281	[4702, 2463]	5322	[6423, 3751]	7363	[7785, 1800]
1241	[2189, 902]	3282	[4703, 756]	5323	[6424, 1486]	7364	[714, 911]
1242	[2190, 2191]	3283	[4243, 2238]	5324	[6425, 5943]	7365	[7786, 552]
1243	[2192, 2177]	3284	[2071, 670]	5325	[5873, 4030]	7366	[7787, 524]
1244	[2193, 1835]	3285	[4704, 4705]	5326	[6426, 1445]	7367	[887, 7006]
1245	[2194, 2195]	3286	[4706, 811]	5327	[6427, 6428]	7368	[7788, 6524]
1246	[2196, 2197]	3287	[522, 4707]	5328	[6429, 458]	7369	[7789, 4800]
1247	[2198, 849]	3288	[555, 4286]	5329	[3618, 6391]	7370	[7790, 2085]
1248	[2199, 2200]	3289	[4708, 789]	5330	[6430, 5792]	7371	[4639, 4371]
1249	[2201, 701]	3290	[4709, 4710]	5331	[3900, 1246]	7372	[7791, 4604]
1250	[2202, 2203]	3291	[4711, 4712]	5332	[6431, 3679]	7373	[4612, 7792]
1251	[1839, 1686]	3292	[4713, 686]	5333	[6432, 6003]	7374	[7793, 4478]
1252	[2204, 2205]	3293	[837, 4218]	5334	[6433, 3021]	7375	[2034, 833]
1253	[2206, 2207]	3294	[4714, 4715]	5335	[3490, 1091]	7376	[7794, 4724]
1254	[2208, 2209]	3295	[1726, 2585]	5336	[6434, 3834]	7377	[2305, 7184]
1255	[2210, 2006]	3296	[4471, 2359]	5337	[6435, 5642]	7378	[7795, 5444]
1256	[2211, 2212]	3297	[4716, 4717]	5338	[6436, 3670]	7379	[1999, 180]
1257	[2213, 2214]	3298	[4718, 4719]	5339	[6437, 3095]	7380	[2251, 1864]
1258	[2215, 2216]	3299	[4720, 2324]	5340	[6438, 3603]	7381	[7796, 6532]
1259	[2217, 1713]	3300	[609, 4721]	5341	[6439, 102]	7382	[7797, 1679]
1260	[2218, 2219]	3301	[4722, 4723]	5342	[3021, 3222]	7383	[4565, 594]
1261	[910, 611]	3302	[4724, 4725]	5343	[6440, 2767]	7384	[7798, 2694]
1262	[2220, 156]	3303	[4726, 2134]	5344	[6441, 1087]	7385	[1798, 2647]
1263	[2221, 1955]	3304	[1945, 527]	5345	[1280, 1271]	7386	[7799, 6619]
1264	[2222, 2223]	3305	[4727, 4728]	5346	[6442, 1386]	7387	[7800, 4321]
1265	[2224, 2225]	3306	[4729, 4235]	5347	[2942, 2801]	7388	[520, 4330]
1266	[2226, 760]	3307	[62, 4359]	5348	[6443, 1113]	7389	[7801, 2528]
1267	[2227, 762]	3308	[4730, 2588]	5349	[6444, 6445]	7390	[5166, 6892]
1268	[643, 2228]	3309	[4508, 4288]	5350	[3379, 4060]	7391	[6895, 4699]
1269	[2229, 2230]	3310	[4731, 4732]	5351	[6446, 1043]	7392	[7802, 195]
1270	[2231, 2232]	3311	[4733, 4734]	5352	[6447, 1488]	7393	[801, 7165]
1271	[2233, 574]	3312	[4735, 4612]	5353	[3020, 5974]	7394	[4676, 7210]
1272	[2234, 2235]	3313	[4736, 4737]	5354	[6448, 401]	7395	[7803, 6765]
1273	[2236, 2165]	3314	[4738, 640]	5355	[6449, 6450]	7396	[6527, 7158]
1274	[2237, 2238]	3315	[4739, 1893]	5356	[6451, 319]	7397	[2308, 4660]

1275	[2239, 2010]	3316	[4740, 4388]	5357	[2872, 3412]	7398	[7804, 5064]
1276	[2240, 2131]	3317	[4741, 4742]	5358	[6452, 6231]	7399	[7805, 2569]
1277	[686, 2241]	3318	[4743, 4155]	5359	[6453, 5634]	7400	[7806, 5319]
1278	[2242, 2243]	3319	[2113, 1822]	5360	[6454, 3970]	7401	[7807, 904]
1279	[678, 1755]	3320	[4744, 2555]	5361	[6455, 6456]	7402	[7808, 919]
1280	[2244, 892]	3321	[4517, 852]	5362	[6457, 1029]	7403	[5419, 6594]
1281	[666, 2245]	3322	[851, 4641]	5363	[5996, 2770]	7404	[7809, 6569]
1282	[2246, 717]	3323	[4745, 4746]	5364	[3179, 1106]	7405	[2683, 7027]
1283	[2247, 719]	3324	[4747, 2566]	5365	[6458, 5552]	7406	[6628, 6975]
1284	[2248, 749]	3325	[490, 1696]	5366	[6459, 5845]	7407	[4707, 5222]
1285	[2249, 1682]	3326	[4748, 2422]	5367	[6460, 1332]	7408	[2018, 552]
1286	[2250, 2251]	3327	[4749, 2685]	5368	[5953, 3498]	7409	[7810, 4738]
1287	[2252, 2253]	3328	[4750, 1894]	5369	[2781, 1229]	7410	[7811, 2596]
1288	[511, 1952]	3329	[4751, 2559]	5370	[3667, 5659]	7411	[1720, 6756]
1289	[2254, 2255]	3330	[4752, 592]	5371	[6461, 1308]	7412	[7113, 4820]
1290	[2256, 2257]	3331	[4753, 2529]	5372	[6462, 4096]	7413	[7812, 2452]
1291	[2258, 2259]	3332	[4754, 2440]	5373	[6463, 1057]	7414	[7813, 4410]
1292	[2260, 2261]	3333	[4567, 2378]	5374	[6464, 3018]	7415	[2209, 4863]
1293	[2262, 2263]	3334	[4755, 4508]	5375	[6465, 5686]	7416	[7814, 667]
1294	[2264, 2265]	3335	[4756, 674]	5376	[1461, 360]	7417	[7815, 4204]
1295	[2266, 2249]	3336	[4757, 812]	5377	[481, 1009]	7418	[7816, 659]
1296	[613, 2267]	3337	[4758, 2367]	5378	[6466, 3227]	7419	[7001, 2256]
1297	[2268, 2269]	3338	[563, 4759]	5379	[6467, 6281]	7420	[4662, 2654]
1298	[2270, 850]	3339	[4760, 2115]	5380	[6468, 1381]	7421	[2223, 7016]
1299	[2271, 2272]	3340	[4761, 4668]	5381	[6469, 5495]	7422	[4211, 4302]
1300	[2273, 2274]	3341	[4658, 2506]	5382	[3757, 1593]	7423	[4997, 6648]
1301	[1819, 2275]	3342	[1742, 4762]	5383	[5820, 124]	7424	[595, 6802]
1302	[56, 2276]	3343	[4462, 4501]	5384	[6470, 321]	7425	[7740, 1766]
1303	[2277, 2278]	3344	[4763, 172]	5385	[2823, 5909]	7426	[7817, 813]
1304	[2279, 2280]	3345	[4764, 1666]	5386	[6471, 3099]	7427	[12, 2576]
1305	[2281, 2282]	3346	[4765, 4766]	5387	[6472, 3827]	7428	[7818, 4901]
1306	[2283, 2284]	3347	[4767, 4768]	5388	[6473, 76]	7429	[7819, 4322]
1307	[2285, 2286]	3348	[4769, 721]	5389	[6474, 3258]	7430	[7820, 5154]
1308	[2287, 2288]	3349	[4534, 511]	5390	[6475, 6054]	7431	[4152, 4300]
1309	[2289, 2290]	3350	[4770, 4497]	5391	[6476, 3791]	7432	[7821, 6842]
1310	[2291, 2292]	3351	[4771, 736]	5392	[6477, 1507]	7433	[5053, 2222]
1311	[2293, 685]	3352	[905, 4270]	5393	[6478, 1224]	7434	[7822, 4808]
1312	[2294, 2295]	3353	[4772, 4773]	5394	[6479, 2823]	7435	[7823, 6531]
1313	[2296, 231]	3354	[4774, 4775]	5395	[5960, 4046]	7436	[4169, 2528]
1314	[2297, 2298]	3355	[579, 1983]	5396	[6480, 994]	7437	[4796, 6635]
1315	[2299, 2300]	3356	[4776, 4777]	5397	[6481, 5930]	7438	[2620, 4796]
1316	[2301, 620]	3357	[4778, 2630]	5398	[6482, 3759]	7439	[7824, 1887]
1317	[2302, 2303]	3358	[4779, 4780]	5399	[6483, 3707]	7440	[6651, 2114]
1318	[2304, 2305]	3359	[4277, 1979]	5400	[6484, 5516]	7441	[870, 2676]

1319	[2306, 2307]	3360	[4781, 1753]	5401	[6485, 5700]	7442	[7825, 2446]
1320	[2075, 2308]	3361	[4782, 847]	5402	[6486, 1241]	7443	[7826, 2]
1321	[2309, 718]	3362	[4570, 1832]	5403	[1301, 6487]	7444	[7827, 6633]
1322	[2310, 2161]	3363	[4783, 2479]	5404	[2997, 3567]	7445	[7828, 6627]
1323	[2311, 2023]	3364	[4784, 627]	5405	[3602, 5710]	7446	[627, 2331]
1324	[2312, 2149]	3365	[4785, 4786]	5406	[6488, 4081]	7447	[7829, 4597]
1325	[2313, 574]	3366	[4787, 2350]	5407	[6489, 2837]	7448	[7830, 1931]
1326	[2314, 2315]	3367	[4788, 2625]	5408	[3944, 3699]	7449	[6953, 1995]
1327	[2316, 2317]	3368	[4789, 2538]	5409	[4066, 3269]	7450	[2591, 5057]
1328	[2318, 2319]	3369	[4790, 4791]	5410	[6490, 3000]	7451	[1696, 5002]
1329	[849, 2320]	3370	[920, 4742]	5411	[6491, 305]	7452	[2319, 6550]
1330	[2321, 2322]	3371	[2603, 4792]	5412	[6492, 3799]	7453	[7831, 5217]
1331	[2323, 2257]	3372	[2682, 199]	5413	[6493, 6313]	7454	[157, 7134]
1332	[2324, 591]	3373	[4793, 2265]	5414	[6494, 1621]	7455	[7832, 2483]
1333	[2325, 2326]	3374	[4794, 793]	5415	[6495, 3160]	7456	[7833, 4706]
1334	[1792, 2327]	3375	[4795, 4796]	5416	[6297, 3357]	7457	[7834, 521]
1335	[2328, 2329]	3376	[4797, 4798]	5417	[6496, 1449]	7458	[2740, 2614]
1336	[906, 2330]	3377	[4799, 4800]	5418	[3517, 3557]	7459	[7835, 166]
1337	[2331, 2332]	3378	[4801, 4802]	5419	[6497, 5747]	7460	[4584, 872]
1338	[2333, 2334]	3379	[2632, 4803]	5420	[6498, 2855]	7461	[672, 4139]
1339	[2335, 2336]	3380	[4804, 2663]	5421	[6499, 6392]	7462	[2476, 2740]
1340	[1773, 2337]	3381	[4805, 164]	5422	[6159, 1039]	7463	[7836, 1667]
1341	[2338, 2339]	3382	[2734, 4473]	5423	[6500, 1214]	7464	[7837, 2525]
1342	[2340, 2341]	3383	[4806, 4807]	5424	[6501, 3551]	7465	[5410, 2084]
1343	[2062, 1718]	3384	[845, 4570]	5425	[6502, 5983]	7466	[7838, 4185]
1344	[159, 2342]	3385	[4808, 4809]	5426	[6503, 3557]	7467	[2284, 6651]
1345	[2343, 2344]	3386	[4810, 4576]	5427	[2838, 3595]	7468	[6767, 5206]
1346	[2345, 2346]	3387	[4811, 201]	5428	[3442, 5708]	7469	[7839, 7197]
1347	[2347, 830]	3388	[4812, 1723]	5429	[5471, 3213]	7470	[7840, 4352]
1348	[2348, 2349]	3389	[4717, 4813]	5430	[6504, 5827]	7471	[7841, 5269]
1349	[2350, 2351]	3390	[847, 4814]	5431	[6505, 3137]	7472	[5254, 4458]
1350	[2352, 2209]	3391	[4815, 1758]	5432	[5793, 3326]	7473	[1686, 4774]
1351	[38, 137]	3392	[2163, 4816]	5433	[6506, 3337]	7474	[7842, 2411]
1352	[2353, 2354]	3393	[4817, 4818]	5434	[6507, 371]	7475	[4175, 4724]
1353	[2355, 708]	3394	[4819, 4820]	5435	[6508, 4059]	7476	[7843, 2378]
1354	[2241, 187]	3395	[4821, 4534]	5436	[6509, 1534]	7477	[4497, 4287]
1355	[2356, 1872]	3396	[765, 4822]	5437	[6510, 3438]	7478	[7844, 5344]
1356	[2357, 700]	3397	[129, 2193]	5438	[6511, 6512]	7479	[5186, 4963]
1357	[776, 630]	3398	[1919, 704]	5439	[6513, 943]	7480	[7845, 7169]
1358	[2358, 2316]	3399	[4823, 4522]	5440	[6384, 3136]	7481	[7846, 533]
1359	[2359, 2360]	3400	[4824, 1885]	5441	[6514, 3498]	7482	[6763, 506]
1360	[2361, 2362]	3401	[1784, 2488]	5442	[1336, 4006]	7483	[1845, 2420]
1361	[2363, 2364]	3402	[4825, 2046]	5443	[2853, 1079]	7484	[2255, 6701]
1362	[2365, 2366]	3403	[4826, 4530]	5444	[6515, 3026]	7485	[7847, 7798]

1363	[2367, 2368]	3404	[4827, 1988]	5445	[6516, 3472]	7486	[2448, 2264]
1364	[2369, 2370]	3405	[4828, 4829]	5446	[1589, 2788]	7487	[7848, 852]
1365	[2371, 201]	3406	[4830, 50]	5447	[6517, 6518]	7488	[2117, 2204]
1366	[2012, 228]	3407	[4831, 4832]	5448	[6519, 2448]	7489	[163, 2057]
1367	[2036, 2372]	3408	[4833, 4834]	5449	[6520, 6521]	7490	[5192, 4259]
1368	[2373, 2374]	3409	[4835, 2610]	5450	[1993, 5414]	7491	[7849, 5022]
1369	[2330, 2375]	3410	[4836, 4648]	5451	[6522, 4879]	7492	[843, 1976]
1370	[2376, 2377]	3411	[4837, 4838]	5452	[6523, 221]	7493	[7850, 5358]
1371	[2378, 2379]	3412	[4839, 633]	5453	[2593, 4766]	7494	[7851, 4578]
1372	[2191, 2380]	3413	[4840, 4732]	5454	[6524, 4857]	7495	[7852, 2408]
1373	[2381, 2382]	3414	[4841, 696]	5455	[5413, 5163]	7496	[7853, 4194]
1374	[2383, 2152]	3415	[4540, 2253]	5456	[6525, 1671]	7497	[6658, 6569]
1375	[2384, 2385]	3416	[4842, 4843]	5457	[6526, 2403]	7498	[4343, 7197]
1376	[2386, 1859]	3417	[4844, 2109]	5458	[4454, 2125]	7499	[5160, 5269]
1377	[2387, 2388]	3418	[4845, 4846]	5459	[4297, 6527]	7500	[4876, 2635]
1378	[2389, 2390]	3419	[147, 4358]	5460	[6528, 1833]	7501	[7854, 506]
1379	[2391, 2392]	3420	[1808, 889]	5461	[6529, 173]	7502	[7855, 5401]
1380	[2393, 2002]	3421	[1923, 2441]	5462	[2156, 6530]	7503	[7856, 731]
1381	[2370, 2394]	3422	[2276, 2344]	5463	[6531, 198]	7504	[7857, 2260]
1382	[2395, 2396]	3423	[4847, 1730]	5464	[2638, 2388]	7505	[4813, 543]
1383	[2397, 2398]	3424	[4848, 1958]	5465	[2680, 4597]	7506	[716, 6634]
1384	[2399, 816]	3425	[4849, 4850]	5466	[2175, 2071]	7507	[7858, 2031]
1385	[2400, 2401]	3426	[4851, 4852]	5467	[6532, 4142]	7508	[7859, 1961]
1386	[2402, 2403]	3427	[4204, 2062]	5468	[6533, 4679]	7509	[1938, 6957]
1387	[668, 1750]	3428	[4853, 4854]	5469	[2743, 143]	7510	[46, 6616]
1388	[757, 2404]	3429	[4855, 2317]	5470	[6534, 489]	7511	[7860, 5227]
1389	[2405, 2406]	3430	[1891, 2121]	5471	[6535, 4290]	7512	[2571, 4600]
1390	[1904, 819]	3431	[4856, 4857]	5472	[6536, 4270]	7513	[7861, 6955]
1391	[2406, 760]	3432	[4858, 4365]	5473	[6537, 4674]	7514	[5393, 6633]
1392	[133, 1725]	3433	[4859, 875]	5474	[2341, 5093]	7515	[4216, 7744]
1393	[2407, 2153]	3434	[4860, 1879]	5475	[5441, 2183]	7516	[7862, 5122]
1394	[2408, 2409]	3435	[4861, 2302]	5476	[4689, 500]	7517	[7863, 4608]
1395	[2410, 532]	3436	[4862, 4863]	5477	[6538, 530]	7518	[6818, 6531]
1396	[2411, 2263]	3437	[4864, 1845]	5478	[6539, 5435]	7519	[1850, 6532]
1397	[2412, 1817]	3438	[4865, 2517]	5479	[5206, 5117]	7520	[7864, 4498]
1398	[2413, 2414]	3439	[593, 4596]	5480	[5133, 6540]	7521	[7865, 906]
1399	[2415, 761]	3440	[4302, 2089]	5481	[6541, 557]	7522	[7866, 2183]
1400	[859, 579]	3441	[4866, 4829]	5482	[6542, 4356]	7523	[7867, 7857]
1401	[2416, 2417]	3442	[4867, 4509]	5483	[6543, 625]	7524	[7868, 2099]
1402	[2418, 2419]	3443	[4868, 516]	5484	[6544, 6545]	7525	[7869, 6626]
1403	[2420, 2421]	3444	[2326, 4384]	5485	[6546, 4453]	7526	[4238, 7079]
1404	[2422, 2423]	3445	[2666, 4869]	5486	[4891, 562]	7527	[2598, 2553]
1405	[2424, 2113]	3446	[4870, 2367]	5487	[2153, 2561]	7528	[7870, 5355]
1406	[2425, 490]	3447	[4871, 1839]	5488	[6547, 5297]	7529	[628, 1689]

1407	[2426, 2427]	3448	[2170, 4530]	5489	[6548, 5115]	7530	[7871, 6607]
1408	[2428, 730]	3449	[4872, 1729]	5490	[6549, 42]	7531	[4885, 5419]
1409	[2429, 2430]	3450	[4873, 4656]	5491	[6550, 223]	7532	[7872, 4592]
1410	[2431, 54]	3451	[4874, 505]	5492	[516, 2203]	7533	[1788, 6521]
1411	[2432, 1924]	3452	[4492, 4875]	5493	[6551, 4244]	7534	[7873, 4532]
1412	[1700, 2433]	3453	[4446, 4876]	5494	[6552, 14]	7535	[6717, 2649]
1413	[2385, 2434]	3454	[4877, 133]	5495	[6553, 4822]	7536	[5198, 6943]
1414	[2435, 2436]	3455	[4384, 4878]	5496	[2718, 1875]	7537	[7874, 5399]
1415	[2437, 891]	3456	[4879, 2017]	5497	[6554, 1984]	7538	[6993, 2085]
1416	[2438, 2284]	3457	[4880, 4380]	5498	[1694, 4893]	7539	[2749, 5212]
1417	[2439, 2440]	3458	[4881, 716]	5499	[6555, 632]	7540	[165, 4866]
1418	[2441, 2429]	3459	[4882, 4883]	5500	[6556, 4267]	7541	[7875, 6839]
1419	[2442, 2443]	3460	[4884, 4885]	5501	[864, 2300]	7542	[7876, 2437]
1420	[2444, 840]	3461	[4886, 4887]	5502	[4263, 918]	7543	[7877, 1832]
1421	[2445, 633]	3462	[4888, 2571]	5503	[6557, 777]	7544	[7878, 1793]
1422	[2414, 606]	3463	[4889, 1956]	5504	[2066, 41]	7545	[2434, 4265]
1423	[2446, 875]	3464	[4890, 4891]	5505	[6558, 1938]	7546	[6839, 4468]
1424	[2447, 2448]	3465	[4892, 4893]	5506	[4520, 672]	7547	[7879, 6796]
1425	[2449, 2450]	3466	[4894, 4310]	5507	[2372, 4571]	7548	[7792, 4406]
1426	[2451, 2304]	3467	[4895, 2084]	5508	[6559, 6560]	7549	[5237, 6708]
1427	[2452, 2075]	3468	[4896, 4897]	5509	[6561, 545]	7550	[7880, 4198]
1428	[213, 2016]	3469	[2132, 2414]	5510	[6562, 2389]	7551	[4349, 2645]
1429	[2453, 626]	3470	[4898, 2213]	5511	[6563, 2168]	7552	[7881, 728]
1430	[2454, 569]	3471	[4899, 1690]	5512	[6564, 815]	7553	[571, 2580]
1431	[561, 2455]	3472	[4900, 4552]	5513	[1718, 4631]	7554	[2487, 492]
1432	[2322, 2456]	3473	[4439, 2333]	5514	[5173, 601]	7555	[1922, 6895]
1433	[2457, 2458]	3474	[4135, 4901]	5515	[6565, 6566]	7556	[2077, 1727]
1434	[2459, 2073]	3475	[4902, 4476]	5516	[6567, 6568]	7557	[4456, 1882]
1435	[2068, 2460]	3476	[4903, 2261]	5517	[6569, 1921]	7558	[6656, 4479]
1436	[2461, 2462]	3477	[4904, 4905]	5518	[6570, 6571]	7559	[7882, 2205]
1437	[2463, 2464]	3478	[4906, 2096]	5519	[6572, 2421]	7560	[4967, 7075]
1438	[2465, 779]	3479	[4907, 2222]	5520	[6573, 2105]	7561	[7883, 7053]
1439	[52, 2466]	3480	[4908, 4491]	5521	[6574, 4875]	7562	[7884, 7885]
1440	[2467, 2468]	3481	[4909, 2127]	5522	[6575, 6576]	7563	[2342, 150]
1441	[2469, 2470]	3482	[2530, 2551]	5523	[6577, 4850]	7564	[7886, 7792]
1442	[2471, 2472]	3483	[4910, 1867]	5524	[6578, 6579]	7565	[1926, 4567]
1443	[2473, 2474]	3484	[4911, 2028]	5525	[6580, 1844]	7566	[7887, 2579]
1444	[2475, 2476]	3485	[4912, 4913]	5526	[5338, 4644]	7567	[7888, 1727]
1445	[2477, 158]	3486	[4914, 57]	5527	[6581, 2712]	7568	[5398, 4222]
1446	[2478, 2479]	3487	[4915, 1723]	5528	[6582, 4730]	7569	[7889, 4184]
1447	[2480, 2481]	3488	[632, 2366]	5529	[6583, 6584]	7570	[7890, 4139]
1448	[2197, 494]	3489	[135, 4197]	5530	[5100, 4310]	7571	[7891, 4836]
1449	[1668, 2482]	3490	[4916, 1955]	5531	[6585, 4870]	7572	[7892, 1701]
1450	[1670, 596]	3491	[4917, 573]	5532	[2216, 6586]	7573	[7893, 7165]

1451	[1969, 2483]	3492	[4918, 4493]	5533	[6587, 4503]	7574	[7894, 543]
1452	[2484, 2089]	3493	[4575, 4696]	5534	[6588, 2400]	7575	[7895, 1937]
1453	[2485, 1856]	3494	[4531, 1886]	5535	[6589, 4817]	7576	[7896, 6781]
1454	[2486, 2487]	3495	[4919, 4920]	5536	[6590, 4590]	7577	[7897, 7103]
1455	[2136, 770]	3496	[4921, 4343]	5537	[6591, 5155]	7578	[7898, 2574]
1456	[2488, 2489]	3497	[4922, 2476]	5538	[6592, 2611]	7579	[5443, 4840]
1457	[2490, 2491]	3498	[4923, 4370]	5539	[6521, 5173]	7580	[7899, 5195]
1458	[2492, 2198]	3499	[4924, 4699]	5540	[6593, 6594]	7581	[4552, 2616]
1459	[2493, 2494]	3500	[1855, 147]	5541	[6595, 1795]	7582	[4505, 659]
1460	[2495, 1964]	3501	[1829, 699]	5542	[6596, 4768]	7583	[7900, 4510]
1461	[2496, 700]	3502	[4925, 546]	5543	[680, 4885]	7584	[4814, 31]
1462	[2497, 2498]	3503	[4926, 2219]	5544	[6597, 2247]	7585	[2489, 5386]
1463	[2499, 660]	3504	[4927, 4928]	5545	[6598, 4615]	7586	[5290, 2063]
1464	[2500, 2501]	3505	[4929, 4678]	5546	[699, 5365]	7587	[7901, 4187]
1465	[534, 2502]	3506	[4930, 4931]	5547	[5266, 4524]	7588	[4869, 5100]
1466	[1864, 1788]	3507	[4932, 4933]	5548	[6599, 2429]	7589	[7201, 1946]
1467	[2503, 2220]	3508	[4934, 4935]	5549	[4364, 2277]	7590	[7902, 2266]
1468	[2504, 2505]	3509	[1958, 2716]	5550	[6600, 4200]	7591	[5275, 4993]
1469	[2506, 2450]	3510	[682, 2290]	5551	[6601, 1765]	7592	[4589, 2349]
1470	[2507, 2508]	3511	[4936, 2296]	5552	[6602, 2128]	7593	[7903, 2359]
1471	[2509, 2510]	3512	[4803, 1678]	5553	[4515, 1870]	7594	[855, 1693]
1472	[2511, 2512]	3513	[2010, 745]	5554	[6603, 4389]	7595	[2320, 2111]
1473	[2513, 2514]	3514	[4937, 678]	5555	[6604, 1803]	7596	[2716, 4954]
1474	[2515, 165]	3515	[4938, 4939]	5556	[5018, 558]	7597	[7127, 4738]
1475	[2516, 836]	3516	[4940, 4941]	5557	[6605, 139]	7598	[7904, 5297]
1476	[2142, 2517]	3517	[4942, 2130]	5558	[6606, 4549]	7599	[4728, 766]
1477	[1752, 2443]	3518	[4943, 2320]	5559	[4846, 6607]	7600	[2605, 5184]
1478	[2518, 2519]	3519	[4944, 1773]	5560	[866, 2259]	7601	[862, 2478]
1479	[2433, 2520]	3520	[4945, 4771]	5561	[6608, 4364]	7602	[7905, 2211]
1480	[2521, 2380]	3521	[4946, 805]	5562	[6609, 1810]	7603	[7906, 6772]
1481	[2522, 2523]	3522	[2730, 4947]	5563	[6610, 188]	7604	[7907, 5003]
1482	[2524, 548]	3523	[4948, 903]	5564	[2245, 57]	7605	[7908, 6742]
1483	[2525, 2526]	3524	[4949, 4202]	5565	[6611, 677]	7606	[5356, 4521]
1484	[2527, 1801]	3525	[2466, 4950]	5566	[2235, 4941]	7607	[7909, 5386]
1485	[2528, 850]	3526	[4333, 4951]	5567	[6612, 4208]	7608	[692, 7098]
1486	[2529, 2530]	3527	[2120, 2445]	5568	[6613, 6614]	7609	[7910, 4454]
1487	[2179, 2014]	3528	[4952, 2025]	5569	[6615, 6616]	7610	[7911, 4743]
1488	[2531, 2532]	3529	[4953, 4954]	5570	[1777, 4328]	7611	[7912, 180]
1489	[2533, 2534]	3530	[4955, 4956]	5571	[6617, 5252]	7612	[7246, 919]
1490	[2520, 2535]	3531	[2031, 2632]	5572	[6618, 6619]	7613	[6955, 524]
1491	[2536, 2308]	3532	[503, 4957]	5573	[6620, 6621]	7614	[7913, 5437]
1492	[2537, 2538]	3533	[1790, 4309]	5574	[5337, 4927]	7615	[4246, 6638]
1493	[2539, 2405]	3534	[4958, 4959]	5575	[6622, 831]	7616	[2161, 6767]
1494	[2540, 2398]	3535	[4960, 4444]	5576	[525, 4881]	7617	[7914, 2087]

1495	[2541, 816]	3536	[4961, 1771]	5577	[6623, 5138]	7618	[167, 4590]
1496	[2542, 2543]	3537	[4962, 4963]	5578	[6624, 6625]	7619	[7915, 4466]
1497	[2544, 2131]	3538	[4964, 1990]	5579	[2403, 6626]	7620	[2351, 2525]
1498	[2545, 2546]	3539	[761, 602]	5580	[6627, 6628]	7621	[2366, 7101]
1499	[2547, 2272]	3540	[2108, 4385]	5581	[6629, 4320]	7622	[7916, 4487]
1500	[2374, 2285]	3541	[4965, 1721]	5582	[6630, 2371]	7623	[4538, 2221]
1501	[2456, 680]	3542	[4966, 4967]	5583	[6631, 4241]	7624	[7917, 6958]
1502	[2548, 2549]	3543	[4968, 4572]	5584	[6632, 2748]	7625	[4852, 1918]
1503	[2550, 2551]	3544	[4157, 748]	5585	[6633, 651]	7626	[7918, 4696]
1504	[704, 179]	3545	[4969, 2017]	5586	[6634, 5375]	7627	[7210, 4654]
1505	[2552, 2553]	3546	[4970, 2435]	5587	[6635, 55]	7628	[7919, 2264]
1506	[2554, 240]	3547	[4971, 4972]	5588	[585, 5242]	7629	[7920, 1741]
1507	[2555, 2556]	3548	[4973, 2091]	5589	[538, 4137]	7630	[7921, 6547]
1508	[2557, 2217]	3549	[4974, 4773]	5590	[2368, 6636]	7631	[7922, 1969]
1509	[1763, 2558]	3550	[2462, 1980]	5591	[6637, 6638]	7632	[2430, 6845]
1510	[2559, 619]	3551	[2041, 2156]	5592	[6639, 2304]	7633	[4525, 2044]
1511	[2560, 2561]	3552	[1730, 4975]	5593	[6640, 2125]	7634	[6765, 4877]
1512	[2562, 2278]	3553	[4976, 2549]	5594	[6641, 5301]	7635	[7923, 1870]
1513	[2563, 1951]	3554	[2396, 4977]	5595	[4802, 5290]	7636	[7924, 604]
1514	[2564, 814]	3555	[4978, 1720]	5596	[6642, 6643]	7637	[7925, 5058]
1515	[2565, 2566]	3556	[4979, 2090]	5597	[6644, 2318]	7638	[6718, 1757]
1516	[2567, 712]	3557	[4980, 2241]	5598	[2377, 1667]	7639	[4666, 4934]
1517	[2568, 765]	3558	[4981, 4479]	5599	[6645, 6646]	7640	[7926, 5153]
1518	[2569, 835]	3559	[4982, 4632]	5600	[4460, 520]	7641	[4956, 2724]
1519	[2570, 2571]	3560	[4983, 2078]	5601	[4249, 35]	7642	[5400, 5265]
1520	[1971, 2207]	3561	[4984, 1815]	5602	[6647, 4904]	7643	[7927, 4199]
1521	[2079, 2572]	3562	[4985, 842]	5603	[6648, 4527]	7644	[7928, 4947]
1522	[2573, 2498]	3563	[4986, 4987]	5604	[6649, 1997]	7645	[7929, 4411]
1523	[2574, 2575]	3564	[2200, 682]	5605	[6650, 6651]	7646	[4963, 4846]
1524	[2576, 631]	3565	[4988, 2333]	5606	[6652, 126]	7647	[7069, 2116]
1525	[2577, 138]	3566	[4989, 2176]	5607	[6653, 4492]	7648	[7930, 5008]
1526	[2578, 2077]	3567	[4990, 4991]	5608	[6654, 628]	7649	[7931, 4232]
1527	[2184, 2579]	3568	[4992, 241]	5609	[6655, 575]	7650	[7214, 2509]
1528	[2580, 2581]	3569	[4993, 4994]	5610	[2644, 720]	7651	[7932, 6613]
1529	[2582, 2583]	3570	[4995, 568]	5611	[597, 6656]	7652	[7933, 1974]
1530	[2584, 1761]	3571	[4996, 4997]	5612	[4533, 2167]	7653	[5388, 1747]
1531	[544, 1848]	3572	[4998, 2698]	5613	[6657, 6658]	7654	[7934, 219]
1532	[2585, 2586]	3573	[1810, 497]	5614	[6659, 1725]	7655	[7935, 4412]
1533	[2587, 2588]	3574	[2360, 48]	5615	[6660, 2275]	7656	[7936, 5292]
1534	[149, 2589]	3575	[4999, 1836]	5616	[4843, 4133]	7657	[1874, 2516]
1535	[2590, 2591]	3576	[5000, 4700]	5617	[5131, 1825]	7658	[7937, 4283]
1536	[2592, 2593]	3577	[2611, 5001]	5618	[6661, 2307]	7659	[7938, 5253]
1537	[2594, 2595]	3578	[5002, 784]	5619	[6662, 135]	7660	[7939, 5040]
1538	[2596, 1665]	3579	[4311, 5003]	5620	[4398, 1808]	7661	[7940, 4600]

1539	[2597, 2555]	3580	[5004, 2305]	5621	[6663, 6664]	7662	[2392, 195]
1540	[1835, 2598]	3581	[5005, 5006]	5622	[6665, 1812]	7663	[1962, 6517]
1541	[2599, 2600]	3582	[5007, 4122]	5623	[6666, 4794]	7664	[4641, 6742]
1542	[2601, 2189]	3583	[5008, 40]	5624	[726, 1963]	7665	[7941, 6802]
1543	[2602, 2042]	3584	[914, 4234]	5625	[6667, 55]	7666	[7083, 4307]
1544	[2595, 2603]	3585	[5009, 211]	5626	[5106, 4651]	7667	[7942, 1905]
1545	[2604, 2605]	3586	[567, 182]	5627	[4655, 4723]	7668	[7943, 5361]
1546	[2606, 2607]	3587	[5010, 2447]	5628	[5006, 4808]	7669	[6892, 2135]
1547	[1806, 2318]	3588	[5011, 770]	5629	[6668, 656]	7670	[913, 6808]
1548	[2608, 2609]	3589	[5012, 5013]	5630	[6669, 6571]	7671	[7944, 6527]
1549	[2610, 2611]	3590	[239, 4791]	5631	[6670, 154]	7672	[6518, 6967]
1550	[2612, 2613]	3591	[5014, 2039]	5632	[6671, 2646]	7673	[630, 6958]
1551	[2614, 2615]	3592	[5015, 2624]	5633	[6672, 4678]	7674	[7945, 2136]
1552	[2616, 2197]	3593	[5016, 692]	5634	[2115, 4505]	7675	[7946, 5094]
1553	[2617, 2530]	3594	[5017, 5018]	5635	[6673, 6620]	7676	[7947, 4512]
1554	[2618, 2490]	3595	[5019, 1711]	5636	[6674, 6675]	7677	[4394, 2559]
1555	[2619, 1899]	3596	[2553, 4843]	5637	[6676, 6677]	7678	[7948, 4911]
1556	[2549, 2620]	3597	[5020, 618]	5638	[1775, 4460]	7679	[782, 7885]
1557	[2621, 2326]	3598	[2362, 1988]	5639	[4330, 4323]	7680	[7949, 41]
1558	[2607, 2435]	3599	[4133, 1945]	5640	[6678, 4333]	7681	[42, 1961]
1559	[2622, 2623]	3600	[5021, 2644]	5641	[6679, 5339]	7682	[5026, 4469]
1560	[1986, 2624]	3601	[763, 5022]	5642	[6680, 6676]	7683	[2332, 5433]
1561	[2625, 2419]	3602	[5023, 4544]	5643	[6681, 6621]	7684	[684, 4706]
1562	[2440, 2626]	3603	[5024, 5025]	5644	[6682, 1775]	7685	[4832, 206]
1563	[2627, 720]	3604	[219, 2711]	5645	[4328, 6676]	7686	[241, 2705]
1564	[2628, 2372]	3605	[4762, 5026]	5646	[2265, 2508]	7687	[2219, 915]
1565	[2629, 2630]	3606	[488, 546]	5647	[4987, 613]	7688	[7950, 7208]
1566	[2631, 2632]	3607	[5027, 1871]	5648	[6683, 4146]	7689	[7951, 2401]
1567	[2633, 1829]	3608	[5028, 2603]	5649	[6684, 4878]	7690	[7952, 6729]
1568	[2634, 2635]	3609	[5029, 4676]	5650	[2354, 4352]	7691	[153, 1741]
1569	[2636, 2028]	3610	[5030, 5031]	5651	[6685, 5349]	7692	[7953, 5277]
1570	[2637, 2638]	3611	[5032, 884]	5652	[6686, 4573]	7693	[7954, 127]
1571	[2295, 1731]	3612	[5033, 5034]	5653	[6687, 6530]	7694	[7955, 4481]
1572	[2639, 235]	3613	[5035, 2018]	5654	[6688, 2619]	7695	[4650, 5292]
1573	[2640, 596]	3614	[5036, 2556]	5655	[6689, 2360]	7696	[7956, 1814]
1574	[2641, 2642]	3615	[4792, 176]	5656	[6690, 4987]	7697	[7957, 2331]
1575	[2643, 2644]	3616	[2375, 1734]	5657	[6691, 607]	7698	[2165, 6627]
1576	[2645, 1902]	3617	[5037, 5038]	5658	[6692, 6518]	7699	[1692, 7740]
1577	[2646, 51]	3618	[5039, 605]	5659	[6693, 2589]	7700	[7958, 2439]
1578	[2647, 1940]	3619	[5040, 4798]	5660	[2721, 2298]	7701	[7959, 2461]
1579	[2648, 2047]	3620	[5041, 4805]	5661	[2502, 4580]	7702	[7960, 2700]
1580	[2649, 2046]	3621	[5042, 2428]	5662	[6694, 6695]	7703	[7961, 797]
1581	[2650, 2651]	3622	[4939, 61]	5663	[6696, 1975]	7704	[7962, 2157]
1582	[2652, 2150]	3623	[746, 2439]	5664	[2450, 5261]	7705	[7963, 4311]

1583	[34, 2653]	3624	[4528, 542]	5665	[6697, 826]	7706	[841, 4151]
1584	[2654, 2655]	3625	[5043, 2721]	5666	[6698, 1799]	7707	[7964, 2445]
1585	[2656, 1932]	3626	[1843, 1709]	5667	[4160, 4834]	7708	[1960, 4280]
1586	[2657, 2103]	3627	[5044, 2288]	5668	[4578, 512]	7709	[7965, 134]
1587	[2658, 217]	3628	[5045, 5046]	5669	[6699, 4617]	7710	[6616, 2322]
1588	[507, 773]	3629	[5047, 5048]	5670	[6700, 4675]	7711	[6743, 4794]
1589	[2659, 2660]	3630	[5049, 130]	5671	[6701, 6702]	7712	[2532, 6827]
1590	[2661, 1981]	3631	[5050, 2599]	5672	[6703, 4443]	7713	[809, 5316]
1591	[2177, 2662]	3632	[4887, 2602]	5673	[6704, 4289]	7714	[536, 4841]
1592	[2663, 2664]	3633	[2257, 5051]	5674	[6705, 34]	7715	[5304, 5253]
1593	[2665, 2666]	3634	[5052, 5053]	5675	[2232, 4517]	7716	[7966, 4258]
1594	[2667, 2668]	3635	[896, 4336]	5676	[6706, 5051]	7717	[2278, 2452]
1595	[2669, 2670]	3636	[2615, 2389]	5677	[6707, 6708]	7718	[2267, 6613]
1596	[2111, 2150]	3637	[5054, 799]	5678	[198, 4178]	7719	[4228, 6669]
1597	[2671, 1735]	3638	[5055, 5056]	5679	[229, 2052]	7720	[1767, 1679]
1598	[2672, 1924]	3639	[2458, 4509]	5680	[912, 171]	7721	[7967, 4832]
1599	[2673, 2268]	3640	[5057, 4705]	5681	[6638, 5444]	7722	[4913, 2179]
1600	[2674, 2675]	3641	[5058, 4313]	5682	[6709, 1960]	7723	[7968, 4926]
1601	[2676, 609]	3642	[5059, 4818]	5683	[6710, 6711]	7724	[7969, 6656]
1602	[2677, 2678]	3643	[5060, 2546]	5684	[6712, 183]	7725	[7970, 4526]
1603	[2679, 2680]	3644	[5061, 4658]	5685	[6713, 6658]	7726	[7971, 4209]
1604	[2681, 2682]	3645	[5062, 2411]	5686	[6714, 2118]	7727	[2685, 2164]
1605	[2600, 2683]	3646	[4954, 1891]	5687	[2006, 2487]	7728	[7972, 4877]
1606	[2684, 2685]	3647	[4419, 842]	5688	[1, 2519]	7729	[7973, 2676]
1607	[2686, 2687]	3648	[4816, 1931]	5689	[6715, 5238]	7730	[7118, 4554]
1608	[1748, 1868]	3649	[5063, 890]	5690	[6716, 6717]	7731	[767, 4588]
1609	[171, 2688]	3650	[4737, 1676]	5691	[2147, 6718]	7732	[7974, 4814]
1610	[2689, 836]	3651	[5064, 8]	5692	[6719, 1860]	7733	[7975, 426]
1611	[2690, 2691]	3652	[5065, 2506]	5693	[6720, 206]	7734	[6124, 3263]
1612	[2692, 2693]	3653	[1977, 1949]	5694	[6721, 6540]	7735	[4037, 3938]
1613	[2694, 1959]	3654	[179, 5066]	5695	[6722, 5443]	7736	[5458, 1631]
1614	[2695, 2642]	3655	[5067, 5068]	5696	[6723, 4655]	7737	[7976, 397]
1615	[2678, 2696]	3656	[5069, 4325]	5697	[4972, 5068]	7738	[7977, 1532]
1616	[2697, 2698]	3657	[4766, 4779]	5698	[6724, 4237]	7739	[7978, 1539]
1617	[2699, 883]	3658	[5070, 2239]	5699	[6725, 6718]	7740	[7979, 7631]
1618	[2700, 1889]	3659	[5071, 187]	5700	[6726, 1869]	7741	[7980, 1215]
1619	[2701, 2702]	3660	[5072, 2526]	5701	[4413, 5178]	7742	[7981, 2990]
1620	[2703, 2510]	3661	[805, 4851]	5702	[2282, 236]	7743	[7387, 266]
1621	[2704, 2696]	3662	[2002, 5073]	5703	[6727, 1986]	7744	[7982, 2775]
1622	[2705, 2706]	3663	[774, 5041]	5704	[6728, 2621]	7745	[7983, 3778]
1623	[2707, 2612]	3664	[821, 5074]	5705	[6729, 1909]	7746	[1479, 3475]
1624	[2708, 2709]	3665	[5075, 2494]	5706	[1887, 2195]	7747	[7984, 3578]
1625	[2710, 2711]	3666	[2022, 5076]	5707	[6730, 6523]	7748	[6346, 1272]
1626	[2455, 2712]	3667	[5077, 4522]	5708	[4829, 5237]	7749	[3709, 3820]

1627	[2713, 897]	3668	[918, 4824]	5709	[6731, 5009]	7750	[7985, 1526]
1628	[2714, 762]	3669	[5078, 4618]	5710	[6732, 5142]	7751	[7986, 5953]
1629	[2715, 2716]	3670	[5079, 4642]	5711	[1803, 6733]	7752	[7987, 2949]
1630	[2717, 2718]	3671	[2401, 879]	5712	[6734, 4571]	7753	[5989, 19]
1631	[2719, 2720]	3672	[4482, 5062]	5713	[4431, 4564]	7754	[7988, 1220]
1632	[2195, 2721]	3673	[4319, 673]	5714	[1794, 518]	7755	[6221, 5877]
1633	[2519, 2722]	3674	[5080, 5081]	5715	[5242, 586]	7756	[7989, 3415]
1634	[2723, 737]	3675	[5082, 2147]	5716	[6735, 2502]	7757	[7990, 1187]
1635	[2724, 2725]	3676	[5083, 4775]	5717	[6736, 6690]	7758	[6178, 3649]
1636	[2726, 1908]	3677	[2339, 1844]	5718	[6737, 2329]	7759	[7991, 3900]
1637	[2727, 2193]	3678	[5084, 4216]	5719	[6738, 247]	7760	[1231, 3159]
1638	[2728, 2101]	3679	[605, 5013]	5720	[6739, 5406]	7761	[3556, 5461]
1639	[1846, 2148]	3680	[5085, 1665]	5721	[4282, 1942]	7762	[5557, 3289]
1640	[2729, 2730]	3681	[223, 2027]	5722	[6740, 874]	7763	[7992, 1042]
1641	[2731, 1802]	3682	[5086, 2578]	5723	[4308, 6741]	7764	[2892, 3079]
1642	[2732, 2662]	3683	[2662, 4419]	5724	[6742, 6743]	7765	[5829, 3819]
1643	[2733, 2734]	3684	[5087, 529]	5725	[6744, 164]	7766	[7993, 3586]
1644	[2735, 2736]	3685	[5088, 1976]	5726	[6745, 811]	7767	[3339, 3215]
1645	[2737, 2497]	3686	[5089, 1843]	5727	[5426, 4243]	7768	[5711, 3897]
1646	[2738, 653]	3687	[5090, 4650]	5728	[6746, 2373]	7769	[7994, 3857]
1647	[1736, 1957]	3688	[5091, 2030]	5729	[6747, 56]	7770	[7995, 1565]
1648	[2298, 840]	3689	[4555, 4244]	5730	[6748, 4694]	7771	[7996, 323]
1649	[2303, 742]	3690	[2064, 4926]	5731	[6749, 4959]	7772	[3840, 5852]
1650	[2739, 2740]	3691	[5092, 5093]	5732	[6750, 5074]	7773	[3176, 1346]
1651	[2741, 2064]	3692	[5094, 5040]	5733	[6751, 4762]	7774	[7997, 1185]
1652	[2742, 2743]	3693	[5095, 5041]	5734	[6752, 6677]	7775	[7998, 5687]
1653	[2744, 1813]	3694	[5096, 2683]	5735	[6753, 4779]	7776	[7999, 3513]
1654	[2745, 1957]	3695	[5025, 861]	5736	[6754, 4277]	7777	[279, 6124]
1655	[2746, 2747]	3696	[5097, 589]	5737	[492, 2651]	7778	[8000, 3388]
1656	[2748, 1904]	3697	[5098, 615]	5738	[885, 4275]	7779	[8001, 1622]
1657	[2543, 2749]	3698	[5099, 5100]	5739	[4144, 129]	7780	[963, 1582]
1658	[2750, 2092]	3699	[5101, 1881]	5740	[6755, 2229]	7781	[1161, 3918]
1659	[2751, 2051]	3700	[5102, 5103]	5741	[1769, 4144]	7782	[3963, 7631]
1660	[2752, 349]	3701	[5104, 4523]	5742	[6756, 1872]	7783	[6392, 3442]
1661	[2753, 1368]	3702	[690, 581]	5743	[5196, 533]	7784	[8002, 1021]
1662	[2754, 2755]	3703	[5105, 4233]	5744	[6757, 767]	7785	[8003, 4111]
1663	[2756, 2757]	3704	[4362, 5106]	5745	[2421, 744]	7786	[5858, 6102]
1664	[2758, 2759]	3705	[5107, 2681]	5746	[248, 4127]	7787	[8004, 993]
1665	[2760, 2761]	3706	[5108, 776]	5747	[6758, 4951]	7788	[3502, 1516]
1666	[1618, 2762]	3707	[5109, 2339]	5748	[6621, 6675]	7789	[8005, 5492]
1667	[2763, 2764]	3708	[5110, 4128]	5749	[6759, 6760]	7790	[8006, 1615]
1668	[2765, 2766]	3709	[4299, 2523]	5750	[4580, 1819]	7791	[8007, 457]
1669	[2767, 1119]	3710	[5111, 1700]	5751	[4800, 4949]	7792	[8008, 3331]
1670	[2768, 1121]	3711	[5112, 4817]	5752	[6761, 673]	7793	[8009, 1606]

1671	[2769, 2770]	3712	[5113, 1743]	5753	[6762, 4493]	7794	[3412, 74]
1672	[2771, 2772]	3713	[4572, 2101]	5754	[4957, 6763]	7795	[8010, 1216]
1673	[2773, 2774]	3714	[5114, 4792]	5755	[4632, 5064]	7796	[5864, 2800]
1674	[2775, 2776]	3715	[2651, 5115]	5756	[6764, 4589]	7797	[2776, 3180]
1675	[2777, 1293]	3716	[5116, 5117]	5757	[4668, 6765]	7798	[8011, 3825]
1676	[1471, 2778]	3717	[701, 5118]	5758	[6766, 6767]	7799	[7388, 5643]
1677	[26, 2779]	3718	[1732, 2505]	5759	[6768, 2427]	7800	[7293, 3052]
1678	[2780, 2781]	3719	[5119, 697]	5760	[6769, 4414]	7801	[3538, 1239]
1679	[2782, 2783]	3720	[5120, 2463]	5761	[6770, 2520]	7802	[3513, 386]
1680	[2784, 2785]	3721	[5121, 2496]	5762	[6771, 690]	7803	[1463, 1167]
1681	[2786, 2787]	3722	[5122, 4653]	5763	[6772, 2066]	7804	[1032, 456]
1682	[2788, 1146]	3723	[5123, 2570]	5764	[6773, 4148]	7805	[5627, 5885]
1683	[2789, 2790]	3724	[5124, 1971]	5765	[6774, 2516]	7806	[8012, 2815]
1684	[2791, 2792]	3725	[4723, 4618]	5766	[6775, 2229]	7807	[1422, 3391]
1685	[381, 1316]	3726	[5125, 593]	5767	[6776, 4395]	7808	[8013, 92]
1686	[2793, 2794]	3727	[5126, 2531]	5768	[190, 4481]	7809	[8014, 5476]
1687	[2795, 2796]	3728	[5127, 2324]	5769	[6777, 4805]	7810	[8015, 1203]
1688	[2797, 2798]	3729	[5128, 2225]	5770	[6778, 6550]	7811	[8016, 2760]
1689	[2799, 2800]	3730	[2203, 821]	5771	[4342, 6779]	7812	[5741, 5756]
1690	[2801, 2802]	3731	[5129, 209]	5772	[4422, 4443]	7813	[8017, 3713]
1691	[2803, 1225]	3732	[2167, 4538]	5773	[868, 646]	7814	[6048, 3855]
1692	[2804, 2805]	3733	[2382, 4299]	5774	[6780, 817]	7815	[7417, 6475]
1693	[2806, 2807]	3734	[5130, 5131]	5775	[1877, 5009]	7816	[3240, 1240]
1694	[2808, 2809]	3735	[5132, 5133]	5776	[1722, 567]	7817	[5887, 1498]
1695	[2810, 2811]	3736	[2106, 4551]	5777	[4746, 160]	7818	[5608, 3281]
1696	[926, 1449]	3737	[5134, 2581]	5778	[161, 2118]	7819	[7429, 6445]
1697	[2812, 1491]	3738	[5135, 2609]	5779	[5118, 6781]	7820	[1237, 3652]
1698	[2813, 2791]	3739	[2292, 1930]	5780	[6782, 617]	7821	[254, 1434]
1699	[2814, 1446]	3740	[5136, 2141]	5781	[6783, 561]	7822	[8018, 1318]
1700	[1608, 2815]	3741	[1881, 2036]	5782	[6784, 873]	7823	[8019, 1121]
1701	[2816, 2817]	3742	[5137, 4747]	5783	[4591, 4544]	7824	[3564, 3348]
1702	[2818, 2819]	3743	[5138, 809]	5784	[4951, 6620]	7825	[5879, 320]
1703	[2820, 1147]	3744	[5139, 4125]	5785	[1817, 6524]	7826	[86, 926]
1704	[2821, 81]	3745	[1759, 5140]	5786	[2691, 2338]	7827	[8020, 1476]
1705	[2822, 2823]	3746	[5141, 1922]	5787	[6785, 2620]	7828	[3058, 3972]
1706	[2824, 2825]	3747	[2624, 5142]	5788	[6786, 4195]	7829	[291, 5883]
1707	[2826, 88]	3748	[5143, 5144]	5789	[565, 191]	7830	[2792, 3451]
1708	[1003, 2827]	3749	[5145, 4935]	5790	[6787, 2230]	7831	[3586, 5477]
1709	[1532, 2828]	3750	[5146, 2228]	5791	[6646, 6788]	7832	[5804, 1353]
1710	[2829, 1240]	3751	[2417, 145]	5792	[1833, 4614]	7833	[383, 1495]
1711	[1613, 414]	3752	[5147, 2431]	5793	[4850, 723]	7834	[8021, 3483]
1712	[2830, 2831]	3753	[5148, 4881]	5794	[6789, 2256]	7835	[8022, 2912]
1713	[2832, 441]	3754	[5149, 2328]	5795	[6790, 4308]	7836	[3322, 1438]
1714	[2833, 2834]	3755	[4710, 1855]	5796	[6791, 4170]	7837	[3800, 3387]

1715	[2835, 2793]	3756	[5150, 5062]	5797	[1711, 5284]	7838	[8023, 3998]
1716	[2836, 971]	3757	[5151, 4172]	5798	[6792, 4501]	7839	[8024, 1041]
1717	[2837, 2838]	3758	[4928, 1999]	5799	[6793, 5327]	7840	[8025, 1412]
1718	[2839, 2840]	3759	[5152, 2613]	5800	[2722, 1927]	7841	[3923, 3828]
1719	[2841, 399]	3760	[1796, 5153]	5801	[6794, 5266]	7842	[3050, 3667]
1720	[2842, 1127]	3761	[5154, 5155]	5802	[553, 4540]	7843	[8026, 5675]
1721	[2843, 1063]	3762	[5156, 2102]	5803	[6795, 2686]	7844	[5950, 1377]
1722	[2844, 358]	3763	[5157, 558]	5804	[2082, 2008]	7845	[3881, 475]
1723	[2845, 2846]	3764	[5158, 4602]	5805	[2092, 6796]	7846	[8027, 5592]
1724	[2847, 2848]	3765	[5159, 4746]	5806	[6797, 4518]	7847	[8028, 4063]
1725	[2849, 421]	3766	[501, 5160]	5807	[497, 2714]	7848	[3203, 2948]
1726	[84, 2850]	3767	[5161, 1744]	5808	[6798, 2469]	7849	[395, 2903]
1727	[2851, 1643]	3768	[528, 2370]	5809	[6799, 4782]	7850	[982, 369]
1728	[2852, 2853]	3769	[5162, 4438]	5810	[6800, 5140]	7851	[8029, 3232]
1729	[2854, 2855]	3770	[5163, 5164]	5811	[4893, 2163]	7852	[8030, 1341]
1730	[2856, 2857]	3771	[549, 4897]	5812	[5115, 6545]	7853	[8031, 30]
1731	[1204, 2858]	3772	[4483, 4266]	5813	[1676, 6576]	7854	[8032, 3253]
1732	[2859, 2860]	3773	[5165, 624]	5814	[6801, 915]	7855	[453, 5752]
1733	[2861, 2862]	3774	[674, 38]	5815	[6802, 4228]	7856	[8033, 3074]
1734	[2863, 2864]	3775	[2290, 5166]	5816	[6803, 1766]	7857	[8034, 7414]
1735	[2865, 2866]	3776	[5167, 4707]	5817	[6804, 4525]	7858	[7363, 2910]
1736	[2867, 2868]	3777	[5168, 4353]	5818	[6805, 4830]	7859	[1345, 3194]
1737	[2869, 2870]	3778	[5081, 208]	5819	[6806, 6807]	7860	[1241, 3756]
1738	[2871, 2872]	3779	[5169, 738]	5820	[6808, 4559]	7861	[1620, 3675]
1739	[2873, 2874]	3780	[5170, 199]	5821	[1991, 4526]	7862	[8035, 1068]
1740	[2875, 2876]	3781	[5171, 160]	5822	[6809, 514]	7863	[8036, 5502]
1741	[2877, 2878]	3782	[4197, 571]	5823	[6810, 6560]	7864	[5917, 363]
1742	[2879, 2880]	3783	[2698, 4608]	5824	[6811, 5055]	7865	[3949, 3665]
1743	[426, 2881]	3784	[5172, 5173]	5825	[6812, 2464]	7866	[8037, 1396]
1744	[2779, 401]	3785	[5174, 1849]	5826	[6813, 5164]	7867	[8038, 3916]
1745	[2882, 2883]	3786	[5175, 507]	5827	[1858, 4125]	7868	[8039, 3273]
1746	[2884, 1227]	3787	[5176, 2672]	5828	[6814, 2283]	7869	[3613, 3628]
1747	[2885, 2886]	3788	[5177, 5178]	5829	[6815, 2409]	7870	[1255, 1047]
1748	[2887, 2888]	3789	[5179, 2245]	5830	[6807, 6612]	7871	[8040, 1063]
1749	[2889, 2842]	3790	[5164, 4956]	5831	[6816, 5271]	7872	[8041, 6163]
1750	[1607, 2890]	3791	[514, 4191]	5832	[6817, 6818]	7873	[3231, 3141]
1751	[2891, 311]	3792	[5180, 5181]	5833	[6819, 5410]	7874	[2966, 3777]
1752	[1140, 2892]	3793	[5103, 4417]	5834	[4559, 4117]	7875	[1396, 3315]
1753	[2893, 1611]	3794	[2238, 2474]	5835	[6820, 2276]	7876	[5896, 5499]
1754	[2894, 2895]	3795	[5182, 4238]	5836	[6821, 2544]	7877	[8042, 1371]
1755	[2896, 2897]	3796	[5183, 5184]	5837	[6822, 5026]	7878	[5716, 3376]
1756	[2898, 2899]	3797	[5185, 5186]	5838	[2483, 4563]	7879	[1436, 5633]
1757	[2900, 2901]	3798	[5187, 862]	5839	[4818, 1997]	7880	[8043, 1509]
1758	[2902, 1538]	3799	[5188, 155]	5840	[6823, 5120]	7881	[8044, 91]

1759	[1245, 1540]	3800	[5189, 1770]	5841	[6824, 893]	7882	[8045, 342]
1760	[2903, 2904]	3801	[5190, 4565]	5842	[6825, 4812]	7883	[301, 18]
1761	[2905, 2906]	3802	[225, 4933]	5843	[6826, 6827]	7884	[6015, 1061]
1762	[2907, 2908]	3803	[2468, 2458]	5844	[6828, 757]	7885	[8046, 5844]
1763	[331, 2909]	3804	[1703, 910]	5845	[2630, 2623]	7886	[4092, 315]
1764	[2910, 2911]	3805	[5191, 2091]	5846	[2102, 4273]	7887	[3310, 1537]
1765	[2912, 2913]	3806	[4410, 2095]	5847	[6829, 1753]	7888	[5778, 3058]
1766	[2914, 2915]	3807	[1884, 5192]	5848	[4947, 2518]	7889	[5481, 5829]
1767	[307, 2767]	3808	[5193, 2524]	5849	[6830, 707]	7890	[1534, 3102]
1768	[315, 2916]	3809	[5194, 870]	5850	[649, 499]	7891	[8047, 3204]
1769	[2917, 2918]	3810	[5195, 5196]	5851	[6831, 4265]	7892	[3077, 6255]
1770	[1473, 2919]	3811	[5197, 4213]	5852	[6832, 4402]	7893	[104, 1134]
1771	[2920, 1266]	3812	[4991, 4577]	5853	[4605, 1714]	7894	[462, 1638]
1772	[2921, 2922]	3813	[4365, 5198]	5854	[6833, 4629]	7895	[2915, 2901]
1773	[2923, 103]	3814	[5199, 4339]	5855	[4494, 2168]	7896	[3809, 1399]
1774	[2924, 2925]	3815	[5200, 228]	5856	[6834, 2664]	7897	[8048, 77]
1775	[2926, 2927]	3816	[4417, 4860]	5857	[207, 6823]	7898	[3409, 1506]
1776	[986, 2928]	3817	[5201, 4171]	5858	[6835, 1794]	7899	[8049, 3981]
1777	[2929, 2930]	3818	[5202, 562]	5859	[575, 218]	7900	[3488, 303]
1778	[2931, 2932]	3819	[5203, 4316]	5860	[6836, 503]	7901	[3393, 1480]
1779	[2933, 2934]	3820	[5204, 587]	5861	[1981, 4911]	7902	[5657, 3568]
1780	[2935, 2926]	3821	[2523, 623]	5862	[6837, 6838]	7903	[1221, 3490]
1781	[2936, 1453]	3822	[5205, 5206]	5863	[4122, 6839]	7904	[8050, 82]
1782	[2937, 2938]	3823	[200, 4281]	5864	[6840, 2466]	7905	[8051, 1357]
1783	[2939, 1531]	3824	[5207, 828]	5865	[6841, 5426]	7906	[6008, 2906]
1784	[1327, 2940]	3825	[5208, 2575]	5866	[2534, 2593]	7907	[8052, 78]
1785	[2941, 2942]	3826	[5209, 4605]	5867	[6568, 6623]	7908	[4073, 2941]
1786	[2943, 467]	3827	[4975, 5133]	5868	[5031, 2619]	7909	[5541, 3098]
1787	[2944, 2852]	3828	[5210, 4596]	5869	[1899, 6842]	7910	[2848, 6159]
1788	[2945, 292]	3829	[5211, 5212]	5870	[6843, 5284]	7911	[3663, 990]
1789	[2946, 439]	3830	[5213, 5198]	5871	[6844, 4591]	7912	[5948, 356]
1790	[2947, 1585]	3831	[5214, 4919]	5872	[807, 190]	7913	[1057, 1416]
1791	[2948, 1299]	3832	[5215, 2655]	5873	[6845, 2399]	7914	[8053, 3661]
1792	[1379, 2949]	3833	[5216, 5192]	5874	[6846, 4300]	7915	[6102, 2938]
1793	[2950, 2951]	3834	[5217, 2595]	5875	[6847, 2250]	7916	[8054, 2861]
1794	[2755, 2952]	3835	[5218, 1846]	5876	[6848, 2633]	7917	[70, 421]
1795	[2953, 2954]	3836	[5219, 5060]	5877	[6849, 4421]	7918	[3188, 3712]
1796	[2955, 2956]	3837	[5220, 61]	5878	[2104, 6818]	7919	[2940, 3589]
1797	[2957, 2958]	3838	[5221, 513]	5879	[6850, 4471]	7920	[1150, 2879]
1798	[2959, 2960]	3839	[5222, 1895]	5880	[6851, 185]	7921	[8055, 1319]
1799	[2961, 2962]	3840	[5223, 2687]	5881	[6852, 4292]	7922	[8056, 1500]
1800	[1192, 1596]	3841	[5224, 5225]	5882	[6853, 1963]	7923	[8057, 347]
1801	[2963, 2964]	3842	[5226, 2121]	5883	[6854, 1804]	7924	[8058, 3029]
1802	[1080, 2965]	3843	[5227, 138]	5884	[4286, 6855]	7925	[8059, 2761]

1803	[64, 2966]	3844	[5228, 1868]	5885	[6856, 2285]	7926	[1442, 3336]
1804	[72, 2967]	3845	[5229, 2267]	5886	[6857, 1719]	7927	[3185, 5769]
1805	[80, 1344]	3846	[5230, 5231]	5887	[6858, 2547]	7928	[1131, 5718]
1806	[88, 263]	3847	[1813, 1688]	5888	[6859, 4488]	7929	[3647, 3987]
1807	[2968, 400]	3848	[5232, 5233]	5889	[4875, 6838]	7930	[5725, 81]
1808	[2969, 2970]	3849	[5234, 1885]	5890	[5327, 782]	7931	[8060, 377]
1809	[2971, 2972]	3850	[2588, 163]	5891	[6860, 5400]	7932	[1642, 5898]
1810	[2973, 2974]	3851	[5235, 4553]	5892	[6861, 6862]	7933	[7351, 6080]
1811	[2975, 944]	3852	[5236, 5237]	5893	[6863, 5158]	7934	[8061, 353]
1812	[2976, 2977]	3853	[5238, 4347]	5894	[6864, 4564]	7935	[8062, 451]
1813	[2978, 2979]	3854	[4400, 4491]	5895	[6865, 4767]	7936	[2802, 2915]
1814	[2980, 2981]	3855	[5239, 643]	5896	[6866, 4293]	7937	[8063, 955]
1815	[2982, 2983]	3856	[5240, 2626]	5897	[6867, 6763]	7938	[8064, 269]
1816	[2984, 2985]	3857	[4822, 855]	5898	[6868, 2667]	7939	[8065, 3807]
1817	[2770, 2986]	3858	[5241, 5242]	5899	[6869, 2679]	7940	[2831, 6428]
1818	[1432, 2987]	3859	[5243, 193]	5900	[6870, 2570]	7941	[486, 5761]
1819	[2988, 2989]	3860	[5142, 2350]	5901	[6871, 140]	7942	[8066, 3119]
1820	[2757, 2990]	3861	[5244, 861]	5902	[6872, 2135]	7943	[8067, 383]
1821	[327, 2832]	3862	[5245, 863]	5903	[6873, 4774]	7944	[3012, 3969]
1822	[2991, 2992]	3863	[5246, 4866]	5904	[2288, 6874]	7945	[8068, 334]
1823	[2993, 2994]	3864	[4775, 2431]	5905	[4213, 5158]	7946	[8069, 5585]
1824	[2995, 2960]	3865	[658, 5247]	5906	[6875, 4910]	7947	[1486, 3481]
1825	[2996, 2997]	3866	[5248, 5249]	5907	[5051, 12]	7948	[1617, 3701]
1826	[2998, 2999]	3867	[5250, 525]	5908	[6876, 6847]	7949	[8070, 1499]
1827	[3000, 3001]	3868	[5251, 598]	5909	[6877, 745]	7950	[3248, 1208]
1828	[3002, 287]	3869	[4155, 2639]	5910	[6878, 6628]	7951	[3376, 3409]
1829	[3003, 3004]	3870	[5252, 1777]	5911	[6879, 549]	7952	[3972, 1420]
1830	[3005, 3006]	3871	[5253, 4761]	5912	[2409, 2239]	7953	[8071, 2917]
1831	[3007, 3008]	3872	[753, 5254]	5913	[6880, 2173]	7954	[6206, 3618]
1832	[3009, 3010]	3873	[5255, 192]	5914	[6881, 4990]	7955	[8072, 1555]
1833	[1371, 122]	3874	[5048, 2547]	5915	[6882, 175]	7956	[3832, 3183]
1834	[3011, 3012]	3875	[5256, 2007]	5916	[6883, 4693]	7957	[5502, 406]
1835	[3013, 3014]	3876	[5257, 2441]	5917	[1973, 4717]	7958	[3770, 3789]
1836	[3015, 3016]	3877	[5258, 5160]	5918	[6884, 1946]	7959	[5769, 5996]
1837	[3017, 3018]	3878	[2470, 4639]	5919	[6885, 6876]	7960	[8073, 1210]
1838	[3019, 3020]	3879	[5259, 5165]	5920	[6886, 4262]	7961	[8074, 1181]
1839	[2834, 3021]	3880	[2464, 4487]	5921	[6708, 2311]	7962	[2766, 1406]
1840	[3022, 313]	3881	[5260, 1760]	5922	[6887, 1970]	7963	[5846, 3985]
1841	[3023, 3024]	3882	[5261, 732]	5923	[4721, 6888]	7964	[8075, 1475]
1842	[3025, 3026]	3883	[5262, 2406]	5924	[6889, 4664]	7965	[3026, 2884]
1843	[325, 3027]	3884	[494, 2524]	5925	[6890, 4263]	7966	[8076, 5455]
1844	[3028, 3029]	3885	[5263, 1933]	5926	[6891, 6892]	7967	[8077, 3097]
1845	[3030, 3031]	3886	[5264, 4824]	5927	[755, 4913]	7968	[5890, 6065]
1846	[3032, 3033]	3887	[5265, 4195]	5928	[6893, 6855]	7969	[4045, 3424]

1847	[1384, 3034]	3888	[2086, 4584]	5929	[6894, 6895]	7970	[5548, 3752]
1848	[256, 3035]	3889	[5093, 5266]	5930	[6896, 2246]	7971	[1593, 252]
1849	[349, 3036]	3890	[5267, 1907]	5931	[6897, 4740]	7972	[8078, 263]
1850	[2796, 3037]	3891	[5268, 2072]	5932	[6898, 6899]	7973	[1178, 5849]
1851	[3038, 3039]	3892	[5269, 4404]	5933	[6900, 4264]	7974	[3802, 2994]
1852	[3040, 3041]	3893	[5270, 531]	5934	[6901, 2493]	7975	[4355, 5121]
1853	[1259, 3042]	3894	[5271, 714]	5935	[6902, 6807]	7976	[2144, 4209]
1854	[3043, 2868]	3895	[2572, 4575]	5936	[6903, 5397]	7977	[2720, 5349]
1855	[3044, 3045]	3896	[4679, 4880]	5937	[137, 6568]	7978	[7132, 7751]
1856	[3046, 1194]	3897	[5272, 851]	5938	[4614, 2461]	7979	[2134, 2266]
1857	[3047, 3048]	3898	[5273, 4249]	5939	[6586, 4786]	7980	[4547, 2596]
1858	[1389, 3049]	3899	[5274, 5275]	5940	[6904, 4631]	7981	[647, 2493]
1859	[1100, 3050]	3900	[4599, 2198]	5941	[4183, 2292]	7982	[8079, 4151]
1860	[3051, 116]	3901	[5276, 1962]	5942	[6905, 2548]	7983	[7754, 648]
1861	[3052, 3053]	3902	[759, 4904]	5943	[6906, 1742]	7984	[2096, 2109]
1862	[3054, 3055]	3903	[5277, 4470]	5944	[6907, 4950]	7985	[8080, 5439]
1863	[3056, 2966]	3904	[5278, 2172]	5945	[889, 1710]	7986	[8081, 5024]
1864	[3057, 3058]	3905	[2479, 4400]	5946	[6908, 1714]	7987	[8082, 2580]
1865	[2967, 1098]	3906	[5279, 843]	5947	[58, 1836]	7988	[2642, 2157]
1866	[3059, 3060]	3907	[5280, 5281]	5948	[6909, 693]	7989	[1917, 4973]
1867	[3061, 1096]	3908	[787, 4870]	5949	[5153, 4782]	7990	[826, 2105]
1868	[2886, 3062]	3909	[640, 2295]	5950	[5178, 2216]	7991	[8083, 2420]
1869	[3063, 3064]	3910	[5282, 1755]	5951	[6910, 5338]	7992	[833, 791]
1870	[3065, 1020]	3911	[4178, 205]	5952	[6911, 2654]	7993	[7208, 5123]
1871	[347, 3066]	3912	[5283, 2496]	5953	[6912, 5261]	7994	[8084, 5106]
1872	[3067, 1051]	3913	[5284, 4536]	5954	[2561, 4887]	7995	[8085, 2063]
1873	[3068, 3069]	3914	[5285, 2535]	5955	[1707, 538]	7996	[7259, 1704]
1874	[2952, 3070]	3915	[211, 1913]	5956	[6913, 1919]	7997	[4388, 2103]
1875	[3071, 2844]	3916	[5286, 4879]	5957	[6914, 6823]	7998	[8086, 6808]
1876	[100, 3072]	3917	[4809, 5111]	5958	[6915, 2311]	7999	[879, 2034]
1877	[3073, 415]	3918	[5287, 58]	5959	[6916, 642]	8000	[8087, 5393]
1878	[3074, 3075]	3919	[839, 4121]	5960	[2498, 4607]	8001	[8088, 4288]
1879	[3076, 3077]	3920	[5288, 2120]	5961	[4897, 564]	8002	[8089, 6957]
1880	[3078, 3079]	3921	[5289, 5290]	5962	[6917, 2364]	8003	[8090, 4160]
1881	[3080, 3081]	3922	[5291, 36]	5963	[6918, 1731]	8004	[1662, 1793]
1882	[3082, 3083]	3923	[5292, 4500]	5964	[6919, 233]	8005	[2696, 7083]
1883	[3084, 3085]	3924	[5293, 2368]	5965	[6920, 6701]	8006	[8091, 4287]
1884	[3086, 2808]	3925	[5294, 838]	5966	[6921, 6922]	8007	[8092, 6845]
1885	[1656, 3087]	3926	[5247, 825]	5967	[6923, 5247]	8008	[8093, 1857]
1886	[3088, 1257]	3927	[5295, 5112]	5968	[1954, 4958]	8009	[6566, 4662]
1887	[3089, 3090]	3928	[5296, 5225]	5969	[4935, 4319]	8010	[8094, 876]
1888	[3091, 3092]	3929	[5297, 4737]	5970	[6924, 5066]	8011	[8095, 661]
1889	[1210, 3093]	3930	[5298, 1906]	5971	[4313, 4183]	8012	[209, 5299]
1890	[3094, 3095]	3931	[5034, 4939]	5972	[4820, 796]	8013	[2546, 6609]

1891	[3096, 2754]	3932	[4241, 676]	5973	[5404, 6925]	8014	[8096, 7744]
1892	[3097, 929]	3933	[5299, 242]	5974	[6926, 853]	8015	[8097, 2129]
1893	[3098, 995]	3934	[5300, 5275]	5975	[1815, 6903]	8016	[8098, 4129]
1894	[3099, 3100]	3935	[5301, 5131]	5976	[6927, 1759]	8017	[8099, 702]
1895	[3101, 3102]	3936	[5302, 4944]	5977	[6928, 4725]	8018	[4556, 4767]
1896	[420, 3103]	3937	[5303, 5304]	5978	[6929, 6695]	8019	[8100, 2717]
1897	[3104, 299]	3938	[5305, 2725]	5979	[6827, 4424]	8020	[8101, 1710]
1898	[3105, 3106]	3939	[5306, 2433]	5980	[1756, 1936]	8021	[8102, 7754]
1899	[3107, 1183]	3940	[4777, 2529]	5981	[6930, 624]	8022	[5233, 2268]
1900	[3108, 1324]	3941	[5307, 2680]	5982	[6931, 732]	8023	[4773, 7004]
1901	[3109, 3110]	3942	[4409, 4807]	5983	[623, 827]	8024	[8103, 4920]
1902	[3111, 3112]	3943	[48, 4674]	5984	[6932, 2363]	8025	[7103, 4626]
1903	[3113, 3114]	3944	[5308, 4957]	5985	[6933, 6733]	8026	[2579, 4604]
1904	[3115, 3116]	3945	[5309, 535]	5986	[2126, 4666]	8027	[6925, 4503]
1905	[3117, 3118]	3946	[5310, 5311]	5987	[6934, 2053]	8028	[8104, 7018]
1906	[3119, 3120]	3947	[5312, 1694]	5988	[6935, 2097]	8029	[7751, 4682]
1907	[2992, 3121]	3948	[5313, 5162]	5989	[6936, 4370]	8030	[4878, 5151]
1908	[2994, 3122]	3949	[5314, 2390]	5990	[6937, 1923]	8031	[8105, 586]
1909	[1420, 3123]	3950	[5315, 5316]	5991	[2706, 5060]	8032	[8106, 2606]
1910	[3124, 3125]	3951	[5317, 711]	5992	[6938, 5288]	8033	[1964, 2220]
1911	[3126, 3127]	3952	[5318, 1767]	5993	[6939, 4533]	8034	[8107, 4929]
1912	[1059, 3128]	3953	[2269, 5319]	5994	[815, 2373]	8035	[8108, 4840]
1913	[414, 364]	3954	[5320, 5002]	5995	[6940, 5388]	8036	[6983, 2426]
1914	[1577, 3129]	3955	[5321, 1915]	5996	[6941, 2482]	8037	[8109, 2645]
1915	[3130, 3131]	3956	[5322, 1668]	5997	[6942, 4599]	8038	[4267, 6783]
1916	[3132, 1439]	3957	[499, 4688]	5998	[202, 5135]	8039	[215, 2011]
1917	[3133, 3134]	3958	[5323, 5324]	5999	[6943, 2643]	8040	[5076, 638]
1918	[3135, 1312]	3959	[5325, 2224]	6000	[6944, 2455]	8041	[2736, 4382]
1919	[3136, 3137]	3960	[5326, 5327]	6001	[6945, 4483]	8042	[8110, 242]
1920	[3138, 3139]	3961	[5328, 1692]	6002	[6946, 916]	8043	[2307, 4673]
1921	[3140, 3141]	3962	[5329, 236]	6003	[6947, 1763]	8044	[1913, 184]
1922	[3142, 3143]	3963	[4336, 1926]	6004	[6948, 647]	8045	[8111, 665]
1923	[3144, 3145]	3964	[1984, 4990]	6005	[6949, 619]	8046	[8112, 515]
1924	[3146, 3147]	3965	[5330, 588]	6006	[6950, 740]	8047	[513, 5024]
1925	[3148, 2996]	3966	[5331, 663]	6007	[4950, 2663]	8048	[4854, 4547]
1926	[1626, 3020]	3967	[4931, 2514]	6008	[6951, 595]	8049	[8113, 7067]
1927	[3149, 3150]	3968	[2623, 4830]	6009	[6952, 5111]	8050	[8114, 4799]
1928	[3151, 3152]	3969	[5332, 174]	6010	[916, 6953]	8051	[8115, 6635]
1929	[3153, 2965]	3970	[5333, 2051]	6011	[6954, 565]	8052	[5401, 7034]
1930	[1333, 3154]	3971	[5334, 705]	6012	[2329, 2182]	8053	[6788, 6657]
1931	[3155, 3156]	3972	[5335, 2688]	6013	[4315, 6955]	8054	[8116, 5138]
1932	[3157, 2797]	3973	[5336, 912]	6014	[4444, 661]	8055	[2501, 7798]
1933	[3158, 3159]	3974	[4257, 4747]	6015	[6956, 4598]	8056	[2097, 4891]
1934	[445, 3160]	3975	[509, 5337]	6016	[6957, 5372]	8057	[8117, 4470]

1935	[3161, 3162]	3976	[872, 777]	6017	[2228, 4446]	8058	[6702, 4581]
1936	[2897, 1550]	3977	[4378, 5338]	6018	[6958, 5406]	8059	[611, 4411]
1937	[3163, 3164]	3978	[5339, 1779]	6019	[6584, 4135]	8060	[5365, 4412]
1938	[3165, 446]	3979	[5340, 2273]	6020	[6959, 6552]	8061	[8118, 766]
1939	[3166, 1180]	3980	[5341, 4803]	6021	[6960, 6961]	8062	[8119, 4958]
1940	[2960, 3167]	3981	[616, 2605]	6022	[2443, 6829]	8063	[749, 1857]
1941	[3168, 953]	3982	[4857, 5231]	6023	[139, 4720]	8064	[8120, 4994]
1942	[3169, 3170]	3983	[5342, 2722]	6024	[6962, 1726]	8065	[769, 1943]
1943	[3171, 3172]	3984	[2535, 4394]	6025	[6963, 5274]	8066	[1871, 4532]
1944	[3173, 997]	3985	[5343, 2436]	6026	[1949, 6964]	8067	[8121, 6929]
1945	[443, 3174]	3986	[1801, 5344]	6027	[192, 2574]	8068	[5144, 4910]
1946	[3175, 373]	3987	[5345, 2122]	6028	[6965, 4927]	8069	[688, 2743]
1947	[1410, 3176]	3988	[5346, 4157]	6029	[6966, 4507]	8070	[8122, 4761]
1948	[3177, 3123]	3989	[5347, 1689]	6030	[6967, 6566]	8071	[6899, 4518]
1949	[1028, 2870]	3990	[5348, 4656]	6031	[6968, 6663]	8072	[8123, 6639]
1950	[3178, 3179]	3991	[5349, 4398]	6032	[6677, 4326]	8073	[1734, 4498]
1951	[3180, 3181]	3992	[5350, 2678]	6033	[6969, 1995]	8074	[8124, 4616]
1952	[3182, 3183]	3993	[5351, 727]	6034	[6970, 35]	8075	[8125, 4560]
1953	[3184, 343]	3994	[5352, 4710]	6035	[6643, 677]	8076	[2225, 5162]
1954	[2883, 3185]	3995	[5353, 4531]	6036	[6971, 4385]	8077	[8126, 1822]
1955	[3186, 1181]	3996	[5354, 203]	6037	[6972, 6559]	8078	[2586, 515]
1956	[1580, 1424]	3997	[5355, 4389]	6038	[2517, 4180]	8079	[5710, 5483]
1957	[3187, 3188]	3998	[4863, 4728]	6039	[1966, 2211]	8080	[8127, 1604]
1958	[2868, 3189]	3999	[5212, 5356]	6040	[6973, 780]	8081	[3195, 3339]
1959	[3190, 3191]	4000	[5357, 758]	6041	[6974, 5056]	8082	[3147, 3952]
1960	[3192, 1103]	4001	[4407, 2159]	6042	[2460, 2481]	8083	[4030, 2789]
1961	[3193, 1533]	4002	[4273, 5358]	6043	[6560, 172]	8084	[3318, 1589]
1962	[3194, 3195]	4003	[5359, 1705]	6044	[6975, 4831]	8085	[3335, 3832]
1963	[3196, 2916]	4004	[5360, 4611]	6045	[4712, 1859]	8086	[980, 2951]
1964	[3197, 1304]	4005	[5361, 4119]	6046	[6976, 6925]	8087	[5819, 345]
1965	[3198, 1556]	4006	[5362, 4486]	6047	[4187, 4176]	8088	[1490, 3983]
1966	[3199, 2955]	4007	[5363, 2412]	6048	[4542, 4355]	8089	[8128, 3741]
1967	[3200, 3201]	4008	[1852, 2382]	6049	[4545, 4283]	8090	[1257, 392]
1968	[1622, 2896]	4009	[5364, 5365]	6050	[6977, 2319]	8091	[3774, 106]
1969	[1001, 1351]	4010	[5366, 2394]	6051	[6978, 1991]	8092	[5976, 3744]
1970	[3202, 3203]	4011	[5367, 1947]	6052	[6979, 5286]	8093	[3207, 6003]
1971	[466, 3204]	4012	[5368, 5254]	6053	[6980, 2140]	8094	[8129, 1404]
1972	[3205, 3206]	4013	[5369, 4124]	6054	[6981, 229]	8095	[3893, 5606]
1973	[1176, 3207]	4014	[5370, 4657]	6055	[6982, 181]	8096	[8130, 337]
1974	[3208, 3209]	4015	[5371, 5372]	6056	[4768, 4232]	8097	[3904, 3312]
1975	[3210, 3211]	4016	[2, 2038]	6057	[5372, 6983]	8098	[3183, 2959]
1976	[3212, 3213]	4017	[5373, 1674]	6058	[6984, 2114]	8099	[3253, 1380]
1977	[3214, 3215]	4018	[5374, 2079]	6059	[4404, 4194]	8100	[8131, 1605]
1978	[3216, 1268]	4019	[5375, 4740]	6060	[6985, 2249]	8101	[1412, 3795]

1979	[3217, 3218]	4020	[2668, 2408]	6061	[6961, 4931]	8102	[8132, 5595]
1980	[3219, 3220]	4021	[747, 2534]	6062	[6986, 5123]	8103	[8133, 6048]
1981	[3221, 96]	4022	[5376, 182]	6063	[4623, 6625]	8104	[8134, 125]
1982	[3222, 3223]	4023	[5377, 4880]	6064	[4496, 4823]	8105	[8135, 1101]
1983	[1084, 3224]	4024	[5378, 4973]	6065	[6987, 2040]	8106	[8136, 6299]
1984	[460, 372]	4025	[2337, 4625]	6066	[4424, 2578]	8107	[1549, 2785]
1985	[3225, 921]	4026	[5003, 4211]	6067	[6988, 4401]	8108	[3821, 1116]
1986	[3226, 3227]	4027	[5379, 1989]	6068	[6989, 4697]	8109	[1353, 3873]
1987	[303, 3228]	4028	[5380, 5381]	6069	[6990, 1914]	8110	[8137, 476]
1988	[3229, 1399]	4029	[4905, 166]	6070	[6991, 6779]	8111	[1021, 1250]
1989	[3230, 3231]	4030	[5382, 2404]	6071	[6992, 6993]	8112	[3081, 3883]
1990	[2876, 3232]	4031	[5383, 5222]	6072	[2243, 785]	8113	[8138, 1138]
1991	[3233, 3234]	4032	[5384, 4378]	6073	[6994, 775]	8114	[2901, 3429]
1992	[3235, 3236]	4033	[5385, 4851]	6074	[4510, 6771]	8115	[8139, 3008]
1993	[3237, 3238]	4034	[4347, 2255]	6075	[6995, 4709]	8116	[8140, 3087]
1994	[3239, 3240]	4035	[5386, 1893]	6076	[2474, 6716]	8117	[8141, 3174]
1995	[3241, 3242]	4036	[4240, 4512]	6077	[6996, 2080]	8118	[1513, 5759]
1996	[3243, 1576]	4037	[5387, 2106]	6078	[908, 6997]	8119	[5485, 6165]
1997	[3244, 1606]	4038	[145, 5388]	6079	[6998, 5398]	8120	[8142, 5453]
1998	[3245, 1417]	4039	[4834, 2734]	6080	[6999, 4439]	8121	[8143, 3396]
1999	[3246, 3201]	4040	[5389, 4371]	6081	[660, 2412]	8122	[8144, 2895]
2000	[3247, 2882]	4041	[5390, 772]	6082	[4119, 5326]	8123	[8145, 483]
2001	[1509, 3248]	4042	[5391, 4974]	6083	[4523, 1884]	8124	[5849, 6210]
2002	[3249, 3250]	4043	[5392, 4499]	6084	[4798, 7000]	8125	[68, 2962]
2003	[3251, 409]	4044	[1666, 5393]	6085	[5316, 7001]	8126	[8146, 3224]
2004	[3252, 1564]	4045	[4648, 2030]	6086	[6625, 2347]	8127	[7169, 5098]
2005	[2805, 3253]	4046	[5394, 2223]	6087	[7002, 4407]	8128	[8147, 6847]
2006	[3254, 3255]	4047	[4607, 4549]	6088	[7003, 7004]	8129	[4200, 5328]
2007	[3256, 3257]	4048	[5395, 2677]	6089	[5281, 1933]	8130	[8148, 7246]
2008	[422, 3258]	4049	[4664, 2679]	6090	[2575, 4657]	8131	[4734, 5195]
2009	[3259, 94]	4050	[2055, 756]	6091	[2334, 4709]	8132	[4368, 7857]
2010	[3260, 1383]	4051	[5396, 5397]	6092	[7005, 7006]	8133	[8149, 5445]
2011	[3261, 3262]	4052	[4476, 126]	6093	[2027, 4743]	8134	[8150, 6983]
2012	[3263, 3264]	4053	[2275, 5398]	6094	[791, 2273]	8135	[237, 1970]
2013	[3265, 3266]	4054	[2419, 1900]	6095	[5324, 5412]	8136	[1786, 5271]
2014	[3267, 3268]	4055	[1804, 2122]	6096	[7007, 666]	8137	[1856, 904]
2015	[3269, 3270]	4056	[587, 5399]	6097	[7008, 6806]	8138	[8151, 5159]
2016	[418, 3271]	4057	[4236, 5400]	6098	[7009, 4422]	8139	[4838, 4873]
2017	[3272, 3273]	4058	[5046, 5401]	6099	[4920, 1852]	8140	[7885, 4146]
2018	[1651, 3274]	4059	[5402, 1672]	6100	[4390, 4944]	8141	[4563, 4929]
2019	[3275, 3276]	4060	[5403, 5404]	6101	[7010, 2093]	8142	[8152, 2251]
2020	[3143, 253]	4061	[5405, 4246]	6102	[7011, 4220]	8143	[4725, 6579]
2021	[3277, 3152]	4062	[5181, 4611]	6103	[7012, 2585]	8144	[8153, 785]
2022	[3278, 3279]	4063	[5406, 2145]	6104	[7013, 6586]	8145	[540, 5055]

2023	[3280, 3281]	4064	[1932, 5165]	6105	[1709, 2660]	8146	[6695, 5094]
2024	[3282, 3283]	4065	[5407, 2607]	6106	[7014, 2426]	8147	[8154, 5627]
2025	[1166, 3284]	4066	[5408, 5118]	6107	[7015, 4577]	8148	[8155, 404]
2026	[3285, 3286]	4067	[5409, 794]	6108	[7016, 4972]	8149	[8156, 3633]
2027	[437, 3287]	4068	[547, 5410]	6109	[2014, 4341]	8150	[8157, 3491]
2028	[96, 3288]	4069	[784, 577]	6110	[7017, 1732]	8151	[8158, 4045]
2029	[1233, 1397]	4070	[5411, 5412]	6111	[4719, 4198]	8152	[8159, 3139]
2030	[3289, 3290]	4071	[1889, 5413]	6112	[7018, 2633]	8153	[6391, 5695]
2031	[3291, 3292]	4072	[14, 908]	6113	[7019, 4831]	8154	[6711, 4592]
2032	[3293, 1071]	4073	[819, 4175]	6114	[7020, 4468]	8155	[6741, 4478]
2033	[3294, 3295]	4074	[5414, 893]	6115	[2508, 4812]	8156	[780, 4573]
2034	[3296, 1342]	4075	[5415, 2649]	6116	[7021, 825]	8157	[4759, 5249]
2035	[3154, 3297]	4076	[5416, 4816]	6117	[7022, 5196]	8158	[7091, 2363]
2036	[3284, 927]	4077	[5417, 4500]	6118	[7023, 4341]	8159	[4977, 6994]
2037	[3298, 3299]	4078	[5418, 5419]	6119	[5412, 5439]		
2038	[3300, 3301]	4079	[5420, 244]	6120	[7024, 2019]		
2039	[3302, 3303]	4080	[5421, 156]	6121	[7025, 1786]		
2040	[1086, 3304]	4081	[5422, 2138]	6122	[7026, 7027]		

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

n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$	n	$\tau(n)$
0	0	1361	0	2722	0	4083	1	5444	1	6805	1
1	0	1362	1	2723	1	4084	1	5445	0	6806	1
2	0	1363	1	2724	1	4085	1	5446	0	6807	0
3	0	1364	1	2725	1	4086	1	5447	1	6808	0
4	0	1365	0	2726	1	4087	1	5448	0	6809	0
5	0	1366	1	2727	1	4088	1	5449	0	6810	1
6	0	1367	0	2728	1	4089	1	5450	1	6811	1
7	0	1368	0	2729	1	4090	0	5451	0	6812	0
8	0	1369	0	2730	0	4091	1	5452	0	6813	1
9	0	1370	0	2731	1	4092	1	5453	0	6814	1
10	0	1371	0	2732	0	4093	1	5454	0	6815	0
11	0	1372	1	2733	1	4094	0	5455	0	6816	0
12	1	1373	1	2734	1	4095	1	5456	1	6817	0
13	0	1374	1	2735	0	4096	1	5457	0	6818	1
14	0	1375	0	2736	0	4097	1	5458	0	6819	1
15	0	1376	0	2737	0	4098	1	5459	1	6820	1
16	1	1377	0	2738	0	4099	0	5460	1	6821	1
17	0	1378	1	2739	0	4100	0	5461	1	6822	1
18	0	1379	0	2740	0	4101	0	5462	0	6823	0
19	0	1380	0	2741	0	4102	0	5463	0	6824	1
20	0	1381	1	2742	1	4103	0	5464	1	6825	0
21	0	1382	0	2743	1	4104	0	5465	0	6826	0
22	1	1383	1	2744	0	4105	1	5466	1	6827	1

23	0	1384	1	2745	1	4106	1	5467	1	6828	1
24	1	1385	0	2746	0	4107	0	5468	0	6829	0
25	1	1386	1	2747	0	4108	1	5469	1	6830	1
26	0	1387	1	2748	1	4109	0	5470	0	6831	1
27	0	1388	0	2749	0	4110	0	5471	1	6832	0
28	0	1389	0	2750	0	4111	0	5472	0	6833	1
29	0	1390	1	2751	0	4112	1	5473	0	6834	0
30	1	1391	1	2752	0	4113	0	5474	0	6835	1
31	0	1392	1	2753	0	4114	0	5475	0	6836	1
32	0	1393	0	2754	0	4115	0	5476	0	6837	0
33	1	1394	1	2755	0	4116	0	5477	0	6838	0
34	1	1395	1	2756	0	4117	1	5478	0	6839	0
35	0	1396	0	2757	1	4118	0	5479	1	6840	0
36	0	1397	0	2758	1	4119	1	5480	0	6841	0
37	0	1398	0	2759	1	4120	0	5481	1	6842	1
38	0	1399	1	2760	0	4121	1	5482	0	6843	1
39	0	1400	1	2761	0	4122	1	5483	0	6844	1
40	1	1401	0	2762	0	4123	0	5484	0	6845	1
41	0	1402	1	2763	0	4124	1	5485	0	6846	1
42	1	1403	0	2764	1	4125	1	5486	1	6847	1
43	0	1404	1	2765	1	4126	1	5487	0	6848	1
44	0	1405	1	2766	1	4127	1	5488	0	6849	0
45	1	1406	1	2767	0	4128	1	5489	1	6850	0
46	0	1407	1	2768	0	4129	0	5490	1	6851	0
47	0	1408	0	2769	0	4130	0	5491	1	6852	0
48	1	1409	0	2770	0	4131	1	5492	0	6853	1
49	1	1410	1	2771	0	4132	0	5493	1	6854	1
50	1	1411	0	2772	0	4133	1	5494	1	6855	0
51	1	1412	1	2773	0	4134	1	5495	1	6856	1
52	1	1413	1	2774	0	4135	0	5496	1	6857	1
53	0	1414	0	2775	1	4136	1	5497	0	6858	0
54	0	1415	1	2776	0	4137	0	5498	1	6859	0
55	0	1416	0	2777	0	4138	1	5499	0	6860	0
56	0	1417	0	2778	0	4139	0	5500	1	6861	0
57	0	1418	1	2779	0	4140	0	5501	0	6862	0
58	1	1419	0	2780	1	4141	0	5502	0	6863	1
59	0	1420	1	2781	1	4142	0	5503	0	6864	0
60	1	1421	1	2782	0	4143	0	5504	0	6865	1
61	1	1422	1	2783	1	4144	0	5505	1	6866	1
62	1	1423	0	2784	1	4145	0	5506	1	6867	0
63	0	1424	1	2785	0	4146	0	5507	0	6868	1
64	1	1425	1	2786	1	4147	0	5508	0	6869	1
65	0	1426	0	2787	1	4148	1	5509	1	6870	1
66	1	1427	0	2788	1	4149	0	5510	1	6871	0

67	1	1428	0	2789	0	4150	1	5511	0	6872	0
68	1	1429	0	2790	0	4151	0	5512	1	6873	1
69	1	1430	0	2791	1	4152	0	5513	1	6874	0
70	1	1431	1	2792	1	4153	0	5514	0	6875	0
71	0	1432	0	2793	0	4154	0	5515	0	6876	0
72	1	1433	1	2794	1	4155	1	5516	0	6877	1
73	0	1434	1	2795	0	4156	1	5517	0	6878	0
74	1	1435	1	2796	1	4157	0	5518	1	6879	1
75	0	1436	1	2797	1	4158	0	5519	1	6880	1
76	1	1437	1	2798	0	4159	1	5520	1	6881	0
77	0	1438	0	2799	0	4160	0	5521	0	6882	1
78	0	1439	1	2800	0	4161	0	5522	1	6883	0
79	0	1440	0	2801	1	4162	1	5523	1	6884	0
80	1	1441	1	2802	1	4163	1	5524	0	6885	1
81	1	1442	1	2803	1	4164	1	5525	0	6886	0
82	0	1443	0	2804	0	4165	1	5526	0	6887	1
83	0	1444	1	2805	1	4166	0	5527	0	6888	0
84	0	1445	0	2806	0	4167	1	5528	0	6889	0
85	1	1446	0	2807	0	4168	0	5529	1	6890	1
86	0	1447	1	2808	1	4169	1	5530	0	6891	1
87	0	1448	1	2809	0	4170	1	5531	0	6892	1
88	0	1449	1	2810	1	4171	0	5532	0	6893	0
89	0	1450	0	2811	1	4172	1	5533	0	6894	0
90	0	1451	0	2812	0	4173	0	5534	0	6895	1
91	1	1452	1	2813	0	4174	1	5535	0	6896	0
92	1	1453	1	2814	0	4175	1	5536	0	6897	1
93	0	1454	0	2815	1	4176	1	5537	1	6898	0
94	0	1455	1	2816	1	4177	0	5538	0	6899	0
95	0	1456	0	2817	0	4178	0	5539	0	6900	1
96	1	1457	0	2818	0	4179	0	5540	1	6901	0
97	1	1458	1	2819	0	4180	1	5541	0	6902	0
98	0	1459	1	2820	0	4181	1	5542	1	6903	1
99	1	1460	1	2821	0	4182	1	5543	1	6904	0
100	0	1461	0	2822	1	4183	0	5544	0	6905	0
101	1	1462	1	2823	0	4184	0	5545	0	6906	1
102	0	1463	1	2824	0	4185	1	5546	0	6907	0
103	1	1464	0	2825	0	4186	1	5547	1	6908	0
104	0	1465	0	2826	0	4187	0	5548	0	6909	0
105	1	1466	1	2827	0	4188	0	5549	0	6910	0
106	0	1467	0	2828	0	4189	0	5550	0	6911	0
107	0	1468	1	2829	0	4190	1	5551	1	6912	0
108	0	1469	0	2830	1	4191	0	5552	1	6913	1
109	0	1470	0	2831	1	4192	0	5553	1	6914	0
110	0	1471	0	2832	1	4193	1	5554	0	6915	0

111	1	1472	0	2833	0	4194	0	5555	1	6916	1
112	0	1473	1	2834	1	4195	0	5556	1	6917	1
113	1	1474	1	2835	0	4196	0	5557	0	6918	0
114	0	1475	1	2836	0	4197	1	5558	1	6919	1
115	0	1476	0	2837	1	4198	1	5559	1	6920	1
116	1	1477	1	2838	1	4199	1	5560	0	6921	0
117	0	1478	1	2839	1	4200	0	5561	1	6922	1
118	0	1479	0	2840	0	4201	0	5562	0	6923	1
119	1	1480	0	2841	0	4202	0	5563	1	6924	0
120	1	1481	1	2842	1	4203	0	5564	1	6925	1
121	1	1482	0	2843	0	4204	0	5565	1	6926	0
122	1	1483	0	2844	0	4205	0	5566	0	6927	0
123	1	1484	1	2845	0	4206	0	5567	0	6928	0
124	1	1485	1	2846	0	4207	1	5568	1	6929	0
125	0	1486	0	2847	1	4208	0	5569	1	6930	0
126	0	1487	0	2848	1	4209	0	5570	0	6931	0
127	0	1488	1	2849	1	4210	0	5571	0	6932	0
128	1	1489	1	2850	0	4211	0	5572	0	6933	0
129	0	1490	0	2851	1	4212	0	5573	1	6934	0
130	0	1491	1	2852	0	4213	0	5574	1	6935	1
131	1	1492	0	2853	1	4214	0	5575	1	6936	0
132	1	1493	1	2854	1	4215	1	5576	0	6937	0
133	1	1494	0	2855	1	4216	0	5577	0	6938	0
134	1	1495	0	2856	1	4217	1	5578	0	6939	1
135	1	1496	0	2857	1	4218	0	5579	1	6940	1
136	1	1497	0	2858	1	4219	1	5580	1	6941	0
137	1	1498	1	2859	0	4220	1	5581	1	6942	1
138	1	1499	0	2860	0	4221	0	5582	0	6943	1
139	0	1500	0	2861	1	4222	1	5583	0	6944	0
140	1	1501	1	2862	1	4223	1	5584	0	6945	0
141	1	1502	1	2863	0	4224	0	5585	0	6946	1
142	0	1503	1	2864	1	4225	0	5586	1	6947	1
143	0	1504	1	2865	1	4226	1	5587	1	6948	0
144	1	1505	0	2866	0	4227	0	5588	0	6949	1
145	0	1506	1	2867	0	4228	1	5589	0	6950	1
146	0	1507	1	2868	1	4229	0	5590	1	6951	1
147	1	1508	0	2869	0	4230	0	5591	0	6952	0
148	1	1509	1	2870	1	4231	1	5592	1	6953	0
149	1	1510	0	2871	1	4232	1	5593	1	6954	0
150	0	1511	1	2872	1	4233	1	5594	1	6955	1
151	1	1512	1	2873	0	4234	1	5595	0	6956	1
152	1	1513	1	2874	0	4235	1	5596	1	6957	1
153	1	1514	1	2875	0	4236	1	5597	1	6958	0
154	0	1515	1	2876	1	4237	0	5598	0	6959	0

155	0	1516	0	2877	0	4238	1	5599	0	6960	1
156	0	1517	0	2878	0	4239	1	5600	1	6961	1
157	1	1518	1	2879	1	4240	1	5601	0	6962	0
158	0	1519	0	2880	1	4241	1	5602	0	6963	0
159	1	1520	0	2881	0	4242	1	5603	1	6964	1
160	1	1521	0	2882	0	4243	0	5604	1	6965	0
161	1	1522	0	2883	1	4244	1	5605	1	6966	1
162	1	1523	1	2884	1	4245	1	5606	1	6967	1
163	1	1524	1	2885	0	4246	1	5607	0	6968	1
164	0	1525	0	2886	0	4247	0	5608	1	6969	1
165	0	1526	0	2887	1	4248	0	5609	1	6970	1
166	0	1527	1	2888	0	4249	0	5610	1	6971	0
167	1	1528	0	2889	0	4250	1	5611	1	6972	1
168	0	1529	0	2890	0	4251	1	5612	0	6973	1
169	0	1530	0	2891	0	4252	0	5613	0	6974	1
170	1	1531	0	2892	1	4253	0	5614	0	6975	0
171	1	1532	1	2893	0	4254	0	5615	0	6976	0
172	0	1533	1	2894	1	4255	0	5616	1	6977	1
173	0	1534	1	2895	1	4256	1	5617	1	6978	0
174	0	1535	0	2896	0	4257	0	5618	0	6979	1
175	1	1536	0	2897	0	4258	1	5619	0	6980	1
176	0	1537	1	2898	0	4259	1	5620	1	6981	1
177	0	1538	1	2899	0	4260	1	5621	1	6982	1
178	0	1539	0	2900	1	4261	0	5622	1	6983	1
179	1	1540	0	2901	1	4262	0	5623	0	6984	0
180	0	1541	0	2902	0	4263	0	5624	0	6985	1
181	1	1542	1	2903	1	4264	1	5625	0	6986	0
182	1	1543	1	2904	1	4265	1	5626	0	6987	0
183	1	1544	1	2905	1	4266	0	5627	1	6988	1
184	1	1545	0	2906	1	4267	0	5628	1	6989	1
185	0	1546	0	2907	1	4268	0	5629	1	6990	0
186	0	1547	0	2908	0	4269	1	5630	0	6991	0
187	0	1548	1	2909	0	4270	0	5631	0	6992	0
188	1	1549	1	2910	0	4271	1	5632	1	6993	0
189	0	1550	1	2911	0	4272	1	5633	0	6994	1
190	1	1551	1	2912	1	4273	1	5634	0	6995	0
191	1	1552	0	2913	0	4274	0	5635	0	6996	1
192	1	1553	1	2914	1	4275	1	5636	1	6997	1
193	1	1554	0	2915	1	4276	0	5637	0	6998	1
194	1	1555	1	2916	0	4277	1	5638	1	6999	0
195	0	1556	1	2917	1	4278	0	5639	0	7000	1
196	0	1557	0	2918	1	4279	0	5640	1	7001	1
197	1	1558	1	2919	1	4280	0	5641	1	7002	0
198	1	1559	1	2920	0	4281	0	5642	0	7003	0

199	0	1560	0	2921	0	4282	1	5643	0	7004	1
200	1	1561	0	2922	0	4283	1	5644	1	7005	1
201	1	1562	0	2923	0	4284	0	5645	1	7006	0
202	0	1563	0	2924	0	4285	1	5646	1	7007	1
203	0	1564	1	2925	1	4286	1	5647	0	7008	0
204	0	1565	1	2926	1	4287	1	5648	0	7009	1
205	1	1566	1	2927	0	4288	0	5649	1	7010	1
206	0	1567	1	2928	1	4289	0	5650	0	7011	0
207	1	1568	1	2929	0	4290	0	5651	1	7012	1
208	1	1569	0	2930	0	4291	0	5652	0	7013	1
209	1	1570	0	2931	1	4292	0	5653	1	7014	0
210	0	1571	1	2932	0	4293	1	5654	1	7015	0
211	1	1572	1	2933	0	4294	1	5655	0	7016	1
212	0	1573	1	2934	0	4295	1	5656	1	7017	0
213	0	1574	0	2935	0	4296	0	5657	0	7018	0
214	0	1575	1	2936	1	4297	1	5658	0	7019	1
215	1	1576	0	2937	0	4298	1	5659	0	7020	1
216	0	1577	0	2938	0	4299	0	5660	1	7021	1
217	0	1578	0	2939	0	4300	1	5661	1	7022	0
218	0	1579	1	2940	0	4301	1	5662	1	7023	1
219	1	1580	0	2941	1	4302	0	5663	0	7024	1
220	1	1581	1	2942	0	4303	1	5664	1	7025	0
221	0	1582	0	2943	1	4304	1	5665	0	7026	0
222	0	1583	1	2944	0	4305	0	5666	1	7027	0
223	1	1584	0	2945	1	4306	0	5667	0	7028	0
224	1	1585	1	2946	1	4307	0	5668	1	7029	1
225	0	1586	1	2947	0	4308	0	5669	0	7030	1
226	0	1587	1	2948	0	4309	1	5670	0	7031	0
227	0	1588	1	2949	1	4310	0	5671	1	7032	1
228	0	1589	0	2950	0	4311	1	5672	0	7033	1
229	0	1590	0	2951	1	4312	1	5673	1	7034	1
230	1	1591	1	2952	1	4313	0	5674	0	7035	0
231	1	1592	1	2953	1	4314	0	5675	1	7036	0
232	0	1593	0	2954	0	4315	0	5676	0	7037	0
233	1	1594	1	2955	0	4316	0	5677	0	7038	0
234	0	1595	0	2956	0	4317	0	5678	1	7039	0
235	1	1596	1	2957	1	4318	0	5679	0	7040	1
236	1	1597	1	2958	1	4319	1	5680	0	7041	1
237	0	1598	1	2959	0	4320	1	5681	1	7042	0
238	1	1599	1	2960	0	4321	0	5682	0	7043	1
239	1	1600	1	2961	1	4322	1	5683	1	7044	1
240	1	1601	0	2962	1	4323	1	5684	0	7045	0
241	1	1602	1	2963	1	4324	1	5685	1	7046	0
242	1	1603	1	2964	1	4325	0	5686	0	7047	1

243	0	1604	0	2965	1	4326	0	5687	1	7048	0
244	1	1605	1	2966	0	4327	1	5688	0	7049	0
245	1	1606	0	2967	0	4328	1	5689	0	7050	0
246	0	1607	0	2968	0	4329	0	5690	0	7051	1
247	0	1608	1	2969	0	4330	0	5691	0	7052	1
248	1	1609	1	2970	0	4331	0	5692	0	7053	1
249	0	1610	0	2971	1	4332	1	5693	1	7054	1
250	0	1611	0	2972	1	4333	0	5694	1	7055	1
251	0	1612	1	2973	0	4334	0	5695	1	7056	0
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253	1	1614	1	2975	0	4336	1	5697	0	7058	1
254	1	1615	1	2976	1	4337	0	5698	1	7059	0
255	0	1616	1	2977	0	4338	0	5699	1	7060	1
256	0	1617	1	2978	1	4339	0	5700	1	7061	1
257	0	1618	0	2979	0	4340	1	5701	0	7062	0
258	0	1619	1	2980	0	4341	0	5702	0	7063	0
259	1	1620	1	2981	1	4342	1	5703	0	7064	1
260	1	1621	0	2982	1	4343	0	5704	1	7065	1
261	1	1622	0	2983	0	4344	1	5705	1	7066	0
262	0	1623	1	2984	1	4345	1	5706	1	7067	0
263	1	1624	0	2985	1	4346	0	5707	0	7068	1
264	1	1625	0	2986	1	4347	1	5708	1	7069	1
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267	1	1628	1	2989	0	4350	0	5711	1	7072	1
268	0	1629	0	2990	1	4351	1	5712	1	7073	0
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270	1	1631	1	2992	0	4353	0	5714	0	7075	0
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275	0	1636	1	2997	1	4358	0	5719	1	7080	1
276	1	1637	1	2998	0	4359	0	5720	1	7081	0
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278	1	1639	1	3000	0	4361	1	5722	0	7083	1
279	1	1640	1	3001	1	4362	0	5723	0	7084	0
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281	0	1642	0	3003	0	4364	0	5725	0	7086	1
282	0	1643	1	3004	1	4365	0	5726	0	7087	1
283	0	1644	0	3005	0	4366	0	5727	0	7088	0
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285	1	1646	0	3007	1	4368	1	5729	1	7090	0
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293	0	1654	1	3015	0	4376	1	5737	0	7098	0
294	1	1655	0	3016	0	4377	0	5738	1	7099	0
295	0	1656	1	3017	1	4378	1	5739	0	7100	1
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299	0	1660	0	3021	1	4382	0	5743	0	7104	0
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304	0	1665	0	3026	0	4387	1	5748	0	7109	0
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307	1	1668	1	3029	1	4390	0	5751	1	7112	1
308	1	1669	0	3030	0	4391	0	5752	0	7113	0
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310	0	1671	0	3032	1	4393	0	5754	1	7115	0
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313	1	1674	1	3035	1	4396	0	5757	0	7118	0
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318	1	1679	0	3040	0	4401	1	5762	1	7123	0
319	0	1680	1	3041	0	4402	0	5763	0	7124	0
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321	1	1682	1	3043	0	4404	1	5765	0	7126	0
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323	0	1684	1	3045	1	4406	1	5767	1	7128	0
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325	1	1686	0	3047	0	4408	0	5769	1	7130	0
326	0	1687	0	3048	1	4409	1	5770	0	7131	0
327	0	1688	1	3049	1	4410	0	5771	1	7132	1
328	1	1689	0	3050	1	4411	0	5772	1	7133	1
329	1	1690	1	3051	0	4412	1	5773	0	7134	1
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338	0	1699	0	3060	1	4421	0	5782	0	7143	1
339	1	1700	1	3061	1	4422	1	5783	0	7144	0
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345	1	1706	0	3067	0	4428	1	5789	0	7150	1
346	0	1707	0	3068	0	4429	1	5790	0	7151	0
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356	1	1717	1	3078	1	4439	1	5800	0	7161	0
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368	0	1729	1	3090	0	4451	1	5812	1	7173	1
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380	1	1741	0	3102	1	4463	1	5824	1	7185	0
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395	0	1756	0	3117	1	4478	0	5839	0	7200	0
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398	0	1759	0	3120	1	4481	1	5842	0	7203	0
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413	0	1774	0	3135	0	4496	1	5857	1	7218	0
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415	1	1776	0	3137	0	4498	0	5859	1	7220	0
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417	0	1778	1	3139	0	4500	0	5861	0	7222	0
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436	0	1797	1	3158	0	4519	1	5880	0	7241	0
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443	0	1804	1	3165	0	4526	0	5887	0	7248	1
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448	0	1809	1	3170	0	4531	1	5892	0	7253	1
449	1	1810	0	3171	1	4532	1	5893	1	7254	0
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453	1	1814	0	3175	0	4536	0	5897	0	7258	0
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459	0	1820	1	3181	1	4542	1	5903	1	7264	0
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465	0	1826	0	3187	1	4548	0	5909	1	7270	1
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496	1	1857	0	3218	0	4579	0	5940	0	7301	1
497	0	1858	0	3219	1	4580	1	5941	0	7302	1
498	0	1859	1	3220	0	4581	1	5942	0	7303	1
499	0	1860	0	3221	0	4582	1	5943	1	7304	1
500	0	1861	0	3222	1	4583	1	5944	0	7305	0
501	1	1862	1	3223	1	4584	1	5945	0	7306	1
502	0	1863	1	3224	1	4585	1	5946	0	7307	0
503	0	1864	1	3225	1	4586	0	5947	1	7308	1
504	0	1865	0	3226	0	4587	1	5948	0	7309	0
505	1	1866	1	3227	1	4588	1	5949	1	7310	0
506	1	1867	1	3228	1	4589	0	5950	0	7311	0

507	1	1868	0	3229	0	4590	0	5951	0	7312	0
508	1	1869	1	3230	1	4591	0	5952	0	7313	1
509	0	1870	0	3231	1	4592	1	5953	0	7314	1
510	1	1871	0	3232	1	4593	0	5954	0	7315	0
511	0	1872	0	3233	1	4594	1	5955	0	7316	1
512	0	1873	0	3234	1	4595	1	5956	1	7317	1
513	0	1874	1	3235	1	4596	0	5957	0	7318	1
514	0	1875	0	3236	0	4597	0	5958	0	7319	0
515	1	1876	0	3237	1	4598	0	5959	1	7320	1
516	0	1877	0	3238	0	4599	0	5960	0	7321	0
517	1	1878	0	3239	1	4600	0	5961	1	7322	1
518	1	1879	1	3240	0	4601	1	5962	1	7323	0
519	0	1880	1	3241	1	4602	1	5963	0	7324	0
520	1	1881	1	3242	1	4603	1	5964	1	7325	0
521	1	1882	1	3243	0	4604	1	5965	1	7326	0
522	1	1883	0	3244	0	4605	1	5966	0	7327	0
523	0	1884	0	3245	0	4606	1	5967	1	7328	0
524	1	1885	1	3246	1	4607	0	5968	1	7329	1
525	0	1886	1	3247	1	4608	1	5969	1	7330	1
526	1	1887	1	3248	0	4609	1	5970	0	7331	1
527	1	1888	1	3249	1	4610	0	5971	0	7332	1
528	0	1889	0	3250	1	4611	1	5972	0	7333	0
529	1	1890	0	3251	0	4612	0	5973	1	7334	1
530	0	1891	0	3252	0	4613	1	5974	0	7335	0
531	0	1892	1	3253	0	4614	0	5975	1	7336	1
532	1	1893	1	3254	1	4615	1	5976	0	7337	0
533	0	1894	0	3255	1	4616	1	5977	0	7338	1
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536	0	1897	1	3258	0	4619	1	5980	0	7341	1
537	1	1898	0	3259	0	4620	0	5981	0	7342	0
538	0	1899	0	3260	0	4621	1	5982	0	7343	1
539	0	1900	0	3261	1	4622	0	5983	0	7344	0
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545	1	1906	0	3267	0	4628	1	5989	0	7350	1
546	0	1907	0	3268	1	4629	1	5990	0	7351	1
547	0	1908	0	3269	1	4630	0	5991	1	7352	1
548	0	1909	1	3270	1	4631	0	5992	0	7353	0
549	1	1910	0	3271	1	4632	1	5993	1	7354	0
550	0	1911	0	3272	1	4633	0	5994	0	7355	0

551	1	1912	0	3273	0	4634	1	5995	1	7356	1
552	1	1913	0	3274	1	4635	1	5996	0	7357	1
553	1	1914	0	3275	0	4636	0	5997	1	7358	1
554	1	1915	0	3276	0	4637	1	5998	0	7359	1
555	0	1916	0	3277	0	4638	0	5999	1	7360	0
556	0	1917	1	3278	1	4639	0	6000	0	7361	1
557	0	1918	0	3279	0	4640	0	6001	0	7362	1
558	0	1919	1	3280	1	4641	1	6002	1	7363	0
559	1	1920	1	3281	0	4642	0	6003	1	7364	1
560	0	1921	1	3282	1	4643	1	6004	0	7365	1
561	1	1922	1	3283	0	4644	0	6005	1	7366	0
562	0	1923	1	3284	0	4645	0	6006	1	7367	0
563	1	1924	1	3285	0	4646	0	6007	1	7368	1
564	1	1925	0	3286	1	4647	1	6008	1	7369	1
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566	1	1927	0	3288	0	4649	1	6010	1	7371	0
567	1	1928	0	3289	1	4650	0	6011	0	7372	0
568	1	1929	1	3290	1	4651	1	6012	0	7373	0
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570	0	1931	0	3292	1	4653	0	6014	0	7375	0
571	1	1932	0	3293	0	4654	1	6015	1	7376	0
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573	0	1934	1	3295	0	4656	0	6017	0	7378	0
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575	1	1936	0	3297	0	4658	1	6019	0	7380	0
576	0	1937	0	3298	1	4659	1	6020	0	7381	0
577	0	1938	0	3299	1	4660	0	6021	1	7382	0
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579	0	1940	0	3301	0	4662	1	6023	0	7384	1
580	1	1941	0	3302	1	4663	0	6024	0	7385	0
581	1	1942	1	3303	0	4664	0	6025	0	7386	1
582	0	1943	1	3304	0	4665	1	6026	0	7387	1
583	1	1944	0	3305	0	4666	1	6027	1	7388	1
584	1	1945	0	3306	1	4667	1	6028	0	7389	0
585	0	1946	0	3307	1	4668	0	6029	1	7390	0
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587	1	1948	1	3309	1	4670	0	6031	1	7392	0
588	0	1949	0	3310	0	4671	1	6032	1	7393	1
589	1	1950	1	3311	0	4672	1	6033	1	7394	0
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591	1	1952	1	3313	0	4674	1	6035	0	7396	1
592	0	1953	0	3314	0	4675	0	6036	0	7397	0
593	1	1954	1	3315	1	4676	0	6037	1	7398	0
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595	1	1956	0	3317	1	4678	1	6039	0	7400	1
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598	1	1959	1	3320	1	4681	0	6042	0	7403	0
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601	0	1962	1	3323	0	4684	0	6045	1	7406	1
602	1	1963	0	3324	0	4685	1	6046	0	7407	1
603	1	1964	1	3325	0	4686	1	6047	0	7408	0
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607	0	1968	0	3329	1	4690	1	6051	0	7412	0
608	1	1969	0	3330	1	4691	1	6052	1	7413	1
609	0	1970	1	3331	1	4692	1	6053	1	7414	0
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612	1	1973	1	3334	1	4695	0	6056	0	7417	1
613	1	1974	1	3335	1	4696	0	6057	0	7418	0
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615	1	1976	1	3337	0	4698	1	6059	1	7420	1
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617	1	1978	0	3339	0	4700	1	6061	1	7422	0
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620	1	1981	0	3342	1	4703	1	6064	1	7425	1
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626	0	1987	1	3348	1	4709	1	6070	0	7431	0
627	1	1988	0	3349	0	4710	1	6071	0	7432	1
628	1	1989	1	3350	0	4711	0	6072	0	7433	0
629	0	1990	1	3351	0	4712	1	6073	1	7434	0
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632	0	1993	1	3354	0	4715	1	6076	1	7437	0
633	0	1994	1	3355	0	4716	0	6077	1	7438	0
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644	0	2005	1	3366	0	4727	0	6088	0	7449	0
645	0	2006	1	3367	0	4728	0	6089	0	7450	1
646	1	2007	0	3368	1	4729	1	6090	1	7451	0
647	1	2008	1	3369	0	4730	0	6091	1	7452	1
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650	1	2011	1	3372	0	4733	0	6094	1	7455	1
651	1	2012	1	3373	0	4734	0	6095	1	7456	0
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653	1	2014	0	3375	1	4736	0	6097	0	7458	0
654	1	2015	1	3376	1	4737	1	6098	1	7459	0
655	0	2016	1	3377	0	4738	0	6099	0	7460	1
656	1	2017	1	3378	1	4739	1	6100	0	7461	0
657	1	2018	0	3379	0	4740	0	6101	1	7462	1
658	0	2019	0	3380	0	4741	1	6102	0	7463	1
659	0	2020	1	3381	1	4742	0	6103	1	7464	0
660	1	2021	0	3382	1	4743	1	6104	1	7465	0
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662	0	2023	1	3384	0	4745	0	6106	0	7467	0
663	0	2024	1	3385	1	4746	1	6107	0	7468	0
664	1	2025	0	3386	1	4747	0	6108	1	7469	1
665	0	2026	0	3387	1	4748	0	6109	0	7470	1
666	1	2027	0	3388	0	4749	1	6110	0	7471	1
667	1	2028	1	3389	0	4750	0	6111	1	7472	1
668	1	2029	1	3390	1	4751	1	6112	0	7473	0
669	1	2030	1	3391	0	4752	1	6113	1	7474	1
670	1	2031	0	3392	1	4753	1	6114	1	7475	1
671	0	2032	0	3393	1	4754	1	6115	1	7476	1
672	0	2033	0	3394	1	4755	1	6116	1	7477	0
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676	0	2037	1	3398	1	4759	1	6120	1	7481	1
677	1	2038	0	3399	1	4760	0	6121	0	7482	0
678	1	2039	1	3400	0	4761	0	6122	0	7483	0
679	0	2040	0	3401	1	4762	0	6123	1	7484	0
680	1	2041	0	3402	1	4763	0	6124	0	7485	1
681	1	2042	1	3403	0	4764	1	6125	1	7486	1
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685	0	2046	0	3407	0	4768	0	6129	1	7490	0
686	0	2047	1	3408	1	4769	1	6130	0	7491	0
687	0	2048	1	3409	0	4770	0	6131	1	7492	0
688	0	2049	0	3410	0	4771	0	6132	0	7493	0
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690	0	2051	0	3412	0	4773	1	6134	1	7495	0
691	1	2052	1	3413	1	4774	0	6135	0	7496	0
692	1	2053	0	3414	1	4775	1	6136	0	7497	0
693	0	2054	0	3415	1	4776	0	6137	0	7498	0
694	1	2055	0	3416	1	4777	0	6138	1	7499	0
695	1	2056	1	3417	0	4778	0	6139	0	7500	0
696	1	2057	1	3418	1	4779	0	6140	1	7501	1
697	0	2058	1	3419	1	4780	0	6141	1	7502	1
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699	0	2060	1	3421	1	4782	0	6143	1	7504	1
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703	0	2064	0	3425	0	4786	1	6147	0	7508	0
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707	0	2068	1	3429	0	4790	0	6151	0	7512	0
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713	0	2074	1	3435	0	4796	0	6157	1	7518	1
714	1	2075	0	3436	1	4797	1	6158	1	7519	1
715	0	2076	1	3437	0	4798	1	6159	1	7520	1
716	0	2077	0	3438	1	4799	0	6160	1	7521	0
717	1	2078	0	3439	1	4800	1	6161	1	7522	1
718	1	2079	0	3440	0	4801	1	6162	1	7523	0
719	0	2080	0	3441	0	4802	0	6163	0	7524	1
720	0	2081	1	3442	0	4803	1	6164	0	7525	0
721	1	2082	1	3443	0	4804	0	6165	0	7526	1
722	1	2083	1	3444	1	4805	1	6166	0	7527	1
723	1	2084	1	3445	1	4806	0	6167	1	7528	0
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725	0	2086	0	3447	1	4808	1	6169	1	7530	0
726	0	2087	0	3448	1	4809	1	6170	0	7531	1

727	1	2088	1	3449	0	4810	1	6171	1	7532	0
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729	1	2090	0	3451	1	4812	0	6173	0	7534	1
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731	0	2092	0	3453	0	4814	0	6175	0	7536	0
732	1	2093	1	3454	0	4815	0	6176	0	7537	0
733	0	2094	1	3455	0	4816	0	6177	1	7538	0
734	1	2095	0	3456	1	4817	1	6178	1	7539	0
735	1	2096	1	3457	0	4818	0	6179	0	7540	0
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737	0	2098	0	3459	0	4820	0	6181	1	7542	1
738	0	2099	0	3460	0	4821	1	6182	0	7543	0
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740	1	2101	1	3462	1	4823	1	6184	1	7545	0
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742	0	2103	1	3464	1	4825	1	6186	1	7547	1
743	0	2104	1	3465	0	4826	0	6187	1	7548	1
744	0	2105	1	3466	1	4827	1	6188	1	7549	1
745	0	2106	1	3467	1	4828	1	6189	0	7550	0
746	1	2107	0	3468	0	4829	1	6190	0	7551	0
747	0	2108	1	3469	1	4830	0	6191	0	7552	0
748	1	2109	1	3470	1	4831	0	6192	0	7553	1
749	0	2110	0	3471	1	4832	0	6193	0	7554	1
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753	1	2114	1	3475	1	4836	0	6197	0	7558	0
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758	1	2119	1	3480	0	4841	1	6202	1	7563	1
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760	0	2121	1	3482	0	4843	1	6204	1	7565	1
761	0	2122	1	3483	0	4844	0	6205	1	7566	0
762	1	2123	0	3484	1	4845	1	6206	1	7567	1
763	1	2124	1	3485	0	4846	1	6207	1	7568	1
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765	0	2126	0	3487	1	4848	0	6209	0	7570	1
766	0	2127	0	3488	0	4849	0	6210	0	7571	0
767	1	2128	1	3489	1	4850	0	6211	0	7572	1
768	0	2129	1	3490	0	4851	1	6212	1	7573	0
769	1	2130	0	3491	0	4852	1	6213	1	7574	1
770	0	2131	0	3492	1	4853	1	6214	0	7575	1

771	0	2132	1	3493	0	4854	0	6215	0	7576	0
772	0	2133	1	3494	1	4855	0	6216	0	7577	0
773	0	2134	1	3495	0	4856	1	6217	1	7578	0
774	1	2135	0	3496	1	4857	1	6218	0	7579	1
775	1	2136	1	3497	0	4858	1	6219	0	7580	1
776	1	2137	0	3498	1	4859	1	6220	1	7581	1
777	1	2138	1	3499	0	4860	1	6221	1	7582	1
778	0	2139	0	3500	1	4861	0	6222	0	7583	0
779	0	2140	0	3501	0	4862	1	6223	0	7584	0
780	1	2141	0	3502	1	4863	1	6224	1	7585	1
781	0	2142	0	3503	1	4864	0	6225	1	7586	0
782	0	2143	1	3504	0	4865	1	6226	1	7587	1
783	1	2144	1	3505	1	4866	0	6227	1	7588	0
784	1	2145	0	3506	0	4867	0	6228	0	7589	1
785	0	2146	1	3507	1	4868	0	6229	1	7590	0
786	1	2147	0	3508	0	4869	0	6230	0	7591	1
787	1	2148	0	3509	1	4870	1	6231	0	7592	0
788	0	2149	1	3510	1	4871	1	6232	0	7593	1
789	1	2150	0	3511	1	4872	0	6233	0	7594	1
790	1	2151	1	3512	1	4873	1	6234	1	7595	1
791	1	2152	1	3513	0	4874	1	6235	0	7596	0
792	0	2153	0	3514	0	4875	1	6236	0	7597	1
793	0	2154	1	3515	0	4876	0	6237	0	7598	1
794	0	2155	1	3516	1	4877	0	6238	1	7599	0
795	1	2156	0	3517	0	4878	0	6239	0	7600	1
796	0	2157	1	3518	1	4879	1	6240	1	7601	1
797	0	2158	1	3519	1	4880	0	6241	0	7602	1
798	1	2159	1	3520	1	4881	1	6242	0	7603	1
799	1	2160	1	3521	1	4882	0	6243	0	7604	0
800	1	2161	0	3522	0	4883	1	6244	0	7605	0
801	1	2162	1	3523	1	4884	0	6245	1	7606	1
802	0	2163	1	3524	1	4885	1	6246	0	7607	0
803	0	2164	0	3525	1	4886	1	6247	0	7608	1
804	0	2165	0	3526	0	4887	0	6248	1	7609	1
805	1	2166	1	3527	0	4888	1	6249	0	7610	1
806	0	2167	0	3528	1	4889	0	6250	0	7611	0
807	1	2168	1	3529	1	4890	1	6251	0	7612	0
808	1	2169	0	3530	0	4891	1	6252	1	7613	1
809	1	2170	1	3531	0	4892	0	6253	1	7614	1
810	1	2171	1	3532	0	4893	0	6254	1	7615	1
811	0	2172	1	3533	0	4894	1	6255	0	7616	0
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813	0	2174	0	3535	0	4896	0	6257	1	7618	1
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817	1	2178	1	3539	0	4900	1	6261	1	7622	1
818	0	2179	0	3540	1	4901	1	6262	0	7623	1
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822	0	2183	1	3544	0	4905	1	6266	0	7627	0
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825	1	2186	0	3547	0	4908	0	6269	1	7630	0
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827	0	2188	1	3549	0	4910	0	6271	0	7632	1
828	0	2189	1	3550	1	4911	1	6272	1	7633	1
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832	1	2193	0	3554	1	4915	1	6276	1	7637	0
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835	0	2196	1	3557	1	4918	1	6279	0	7640	1
836	1	2197	1	3558	1	4919	0	6280	1	7641	0
837	0	2198	1	3559	1	4920	0	6281	0	7642	0
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839	1	2200	0	3561	1	4922	0	6283	1	7644	1
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841	1	2202	1	3563	0	4924	0	6285	0	7646	0
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843	0	2204	1	3565	0	4926	1	6287	0	7648	0
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845	0	2206	1	3567	0	4928	1	6289	1	7650	0
846	1	2207	0	3568	0	4929	1	6290	1	7651	0
847	1	2208	1	3569	0	4930	0	6291	1	7652	1
848	0	2209	0	3570	0	4931	0	6292	0	7653	0
849	0	2210	0	3571	0	4932	1	6293	1	7654	1
850	0	2211	1	3572	0	4933	1	6294	1	7655	0
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852	1	2213	0	3574	1	4935	1	6296	0	7657	1
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855	1	2216	0	3577	1	4938	0	6299	0	7660	1
856	0	2217	0	3578	0	4939	0	6300	1	7661	1
857	1	2218	0	3579	1	4940	1	6301	1	7662	1
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862	1	2223	1	3584	1	4945	1	6306	0	7667	0
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866	0	2227	0	3588	0	4949	1	6310	0	7671	0
867	1	2228	0	3589	1	4950	1	6311	1	7672	0
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870	0	2231	1	3592	1	4953	1	6314	1	7675	0
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872	1	2233	1	3594	1	4955	0	6316	0	7677	0
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874	0	2235	0	3596	0	4957	1	6318	1	7679	0
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876	1	2237	1	3598	0	4959	0	6320	0	7681	1
877	1	2238	1	3599	1	4960	0	6321	1	7682	0
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880	0	2241	0	3602	1	4963	0	6324	1	7685	0
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882	0	2243	0	3604	1	4965	1	6326	1	7687	1
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887	0	2248	0	3609	1	4970	0	6331	1	7692	0
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892	0	2253	1	3614	0	4975	0	6336	0	7697	0
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897	0	2258	1	3619	0	4980	1	6341	0	7702	0
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915	0	2276	1	3637	1	4998	0	6359	1	7720	1
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917	1	2278	0	3639	1	5000	1	6361	0	7722	0
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923	0	2284	0	3645	0	5006	1	6367	0	7728	0
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927	0	2288	0	3649	0	5010	1	6371	1	7732	0
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932	1	2293	0	3654	1	5015	1	6376	0	7737	1
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939	1	2300	1	3661	1	5022	0	6383	1	7744	0
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941	0	2302	0	3663	1	5024	0	6385	1	7746	0
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943	0	2304	1	3665	0	5026	0	6387	1	7748	1
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946	0	2307	0	3668	0	5029	1	6390	1	7751	1

947	0	2308	0	3669	0	5030	0	6391	1	7752	0
948	1	2309	0	3670	1	5031	0	6392	0	7753	0
949	0	2310	0	3671	0	5032	0	6393	1	7754	0
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961	0	2322	0	3683	1	5044	0	6405	1	7766	1
962	1	2323	1	3684	1	5045	1	6406	1	7767	0
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966	1	2327	1	3688	1	5049	0	6410	0	7771	0
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1016	0	2377	0	3738	0	5099	1	6460	1	7821	1
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1298	0	2659	0	4020	1	5381	0	6742	1	8103	1

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1300	1	2661	0	4022	0	5383	0	6744	0	8105	0
1301	1	2662	1	4023	0	5384	1	6745	0	8106	1
1302	0	2663	1	4024	0	5385	0	6746	1	8107	1
1303	0	2664	0	4025	0	5386	0	6747	1	8108	0
1304	1	2665	0	4026	1	5387	0	6748	0	8109	1
1305	0	2666	1	4027	1	5388	0	6749	1	8110	0
1306	1	2667	1	4028	0	5389	1	6750	1	8111	0
1307	0	2668	1	4029	1	5390	1	6751	0	8112	1
1308	1	2669	0	4030	1	5391	1	6752	1	8113	1
1309	0	2670	1	4031	0	5392	1	6753	0	8114	1
1310	1	2671	1	4032	1	5393	0	6754	0	8115	1
1311	0	2672	1	4033	0	5394	1	6755	1	8116	1
1312	1	2673	1	4034	1	5395	0	6756	0	8117	0
1313	0	2674	1	4035	0	5396	0	6757	1	8118	1
1314	0	2675	1	4036	1	5397	1	6758	1	8119	0
1315	1	2676	0	4037	0	5398	1	6759	1	8120	1
1316	0	2677	1	4038	0	5399	1	6760	0	8121	1
1317	0	2678	1	4039	0	5400	0	6761	0	8122	1
1318	1	2679	1	4040	1	5401	0	6762	0	8123	0
1319	1	2680	0	4041	1	5402	1	6763	0	8124	1
1320	0	2681	0	4042	1	5403	1	6764	1	8125	1
1321	0	2682	0	4043	1	5404	1	6765	1	8126	1
1322	0	2683	1	4044	0	5405	1	6766	1	8127	0
1323	0	2684	0	4045	0	5406	1	6767	0	8128	1
1324	1	2685	1	4046	1	5407	1	6768	0	8129	0
1325	0	2686	0	4047	0	5408	1	6769	0	8130	1
1326	0	2687	0	4048	0	5409	1	6770	1	8131	0
1327	1	2688	0	4049	0	5410	0	6771	1	8132	1
1328	0	2689	0	4050	0	5411	0	6772	0	8133	1
1329	0	2690	0	4051	0	5412	1	6773	1	8134	1
1330	1	2691	1	4052	0	5413	0	6774	0	8135	0
1331	1	2692	1	4053	0	5414	0	6775	0	8136	1
1332	0	2693	1	4054	0	5415	1	6776	1	8137	0
1333	1	2694	0	4055	1	5416	0	6777	1	8138	1
1334	0	2695	1	4056	1	5417	0	6778	0	8139	1
1335	1	2696	1	4057	1	5418	0	6779	1	8140	1
1336	1	2697	1	4058	0	5419	0	6780	0	8141	0
1337	1	2698	0	4059	1	5420	1	6781	1	8142	1
1338	0	2699	1	4060	1	5421	1	6782	1	8143	1
1339	0	2700	0	4061	1	5422	1	6783	1	8144	1
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1350	0	2711	1	4072	0	5433	1	6794	1	8155	1
1351	0	2712	0	4073	0	5434	1	6795	1	8156	1
1352	1	2713	0	4074	0	5435	1	6796	0	8157	1
1353	1	2714	1	4075	1	5436	1	6797	1	8158	1
1354	0	2715	0	4076	0	5437	0	6798	0	8159	1
1355	1	2716	0	4077	0	5438	1	6799	0		
1356	1	2717	0	4078	0	5439	0	6800	1		
1357	1	2718	1	4079	1	5440	0	6801	0		
1358	0	2719	1	4080	1	5441	0	6802	1		
1359	1	2720	0	4081	1	5442	1	6803	0		
1360	0	2721	1	4082	0	5443	1	6804	1		

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