

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

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 $(a, b) = (z + 1, z^5 + z^3 + z^2 + z + 1)$, 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 $\text{CF}(a, b)$,

$$p_0(z) = z^{20} + z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^9 + z^5 + z^4 + 1,$$

$$p_1(z) = z^{23} + z^{22} + z^{19} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^5 + z^3 + z^2,$$

$$p_2(z) = z^{24} + z^{22} + z^{16} + z^{12} + z^{10} + z^6 + z^4 + 1,$$

$$p_3(z) = z^{23} + z^{22} + z^{19} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^5 + z^3 + z^2,$$

$$p_4(z) = z^{22} + z^{20} + z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^9 + z^8 + z^6 + z^5 + 1,$$

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

$$p_0(z) = z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^{10} + z^9 + z^8 + z^5 + z^4 + 1,$$

$$p_1(z) = z^{23} + z^{22} + z^{19} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^5 + z^3 + z^2,$$

$$p_2(z) = z^{24} + z^{22} + z^{16} + z^{12} + z^{10} + z^6 + z^4 + 1,$$

$$p_3(z) = z^{23} + z^{22} + z^{19} + z^{16} + z^{14} + z^{13} + z^{12} + z^{11} + z^{10} + z^8 + z^7 + z^5 + z^3 + z^2,$$

$$p_4(z) = z^{22} + z^{18} + z^{17} + z^{16} + z^{14} + z^{13} + z^{11} + z^9 + z^6 + z^5 + 1.$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

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

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

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

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

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

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

for some positive integer d_n . Hence,

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

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

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

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

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

of the vector

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

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

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

Lemma 2.1. *We have*

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

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

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

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

Proof. We give the proof of the identity

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

the proofs of the others being similar.

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

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

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

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

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

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

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

Define

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

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

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

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

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

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

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 $u = 2^{2k}$,

$$\begin{aligned}
T[:12u] &= T[:6u] + x^u T[:5u] + x^{3u} T[:3u] + x^{4u} T[:2u] + x^u T[:6u] + x^{2u} T[:5u] \\
&\quad + x^{4u} T[:3u] + x^{5u} T[:2u] + x^{2u} T[:6u] + x^{3u} T[:5u] + x^{5u} T[:3u] \\
&\quad + x^{6u} T[:2u] + x^{7u} T[:5u] + x^{8u} T[:4u] + x^{9u} T[:3u] \\
&\quad + (x^{6u} + x^{7u} + x^{8u}).
\end{aligned}$$

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

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

which can be rewritten as

$$(2.7) \quad 0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[110w]_2],$$

$$0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2]$$

$$(2.8) \quad + T[[111w]_2],$$

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

$$(2.10) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[1001w]_2],$$

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

$$(2.12) \quad 0 = T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1011w]_2],$$

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

$$(2.13) \quad 1 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[101w]_2] + T[[110w]_2],$$

$$1 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[100w]_2] + T[[101w]_2]$$

$$(2.14) \quad + T[[111w]_2],$$

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

$$(2.16) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1010w]_2],$$

$$(2.18) \quad 0 = T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1011w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 8085 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

$$(2.19) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\ &\quad + \tau(A(s, 110)), \end{aligned}$$

$$(2.20) \quad \begin{aligned} 0 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 111)), \end{aligned}$$

$$(2.21) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 1000)),$$

$$(2.22) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 1001)),$$

$$(2.23) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1010)),$$

$$(2.24) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1011)),$$

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

$$(2.25) \quad \begin{aligned} 1 &= \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 101)) \\ &\quad + \tau(A(s, 110)), \end{aligned}$$

$$(2.26) \quad \begin{aligned} 1 &= \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 111)), \end{aligned}$$

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

$$(2.28) \quad 0 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 1001)),$$

$$(2.29) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 1010)),$$

$$(2.30) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 1011)),$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{36}), E_{36}) = (A(i, 0^{16}), E_{16})$, so that we only have to verify that identities (2.19) through (2.30) hold for $2 \leq k \leq 18$, which turns out to be true. $\square$

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

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

$$\begin{aligned} M_{2k} &= M^e[:6u] + x^u M^e[:5u] + x^{3u} M^e[:3u] + x^{4u} M^e[:2u] + x^{6u} R^e, \\ W_{2k} &= W^e[:6u] + x^u W^e[:5u] + x^{3u} W^e[:3u] + x^{4u} W^e[:2u] + x^{6u} R^e. \end{aligned}$$

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

$$\begin{aligned} M_{2k+1} &= M^o[:6u] + x^u M^o[:5u] + x^{3u} M^o[:3u] + x^{4u} M^o[:2u] + x^{6u} R^o, \\ W_{2k+1} &= W^o[:6u] + x^u W^o[:5u] + x^{3u} W^o[:3u] + x^{4u} W^o[:2u] + x^{6u} R^o. \end{aligned}$$

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

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

We give the proof of

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

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

$$(2.31) \quad \begin{aligned} W_{2k} M_{2k} &= (W^e[:6v] + x^v W^e[:5v] + x^{3v} W^e[:3v] + x^{4v} W^e[:2v] + x^{6v} R^e) \times (\\ &M^e[:6v] + x^v M^e[:5v] + x^{3v} M^e[:3v] + x^{4v} M^e[:2v] + x^{6v} R^e); \end{aligned}$$

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

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

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

$$\begin{aligned}q_0(x) &= x^{24} + x^{20} + x^{19} + x^{15} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^7 + x^6 \\ &\quad + x^4, \\ q_1(x) &= x^{22} + x^{21} + x^{19} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^5 \\ &\quad + x^2 + x, \\ q_2(x) &= x^{24} + x^{20} + x^{18} + x^{14} + x^{12} + x^8 + x^2 + 1, \\ q_3(x) &= x^{22} + x^{21} + x^{19} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^5 \\ &\quad + x^2 + x, \\ q_4(x) &= x^{24} + x^{19} + x^{18} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^8 + x^7 + x^6 \\ &\quad + x^4 + x^2.\end{aligned}$$

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{136} + x^{130} + x^{124} + x^{116} + x^{114} + x^{112} + x^{108} + x^{106} + x^{96} \\
&\quad + x^{94} + x^{92} + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{74} + x^{68} + x^{66} + x^{60} \\
&\quad + x^{58} + x^{50} + x^{46} + x^{42} + x^{36} + x^{30} + x^{26} + x^{20} + x^{18} + x^{16} + x^{14} \\
&\quad + x^{12}, \\
p_3(x) &= x^{134} + x^{130} + x^{128} + x^{122} + x^{118} + x^{114} + x^{110} + x^{106} + x^{102} + x^{100} \\
&\quad + x^{98} + x^{94} + x^{92} + x^{90} + x^{80} + x^{76} + x^{74} + x^{68} + x^{60} + x^{58} + x^{56} \\
&\quad + x^{52} + x^{46} + x^{40} + x^{36} + x^{34} + x^{28} + x^{18} + x^{16} + x^{14} + x^{10} + x^8, \\
p_6(x) &= x^{128} + x^{126} + x^{122} + x^{116} + x^{114} + x^{112} + x^{110} + x^{102} + x^{96} + x^{92} \\
&\quad + x^{90} + x^{86} + x^{84} + x^{82} + x^{72} + x^{70} + x^{68} + x^{58} + x^{54} + x^{50} + x^{48} \\
&\quad + x^{44} + x^{42} + x^{38} + x^{32} + x^{30} + x^{26} + x^{24} + x^{20} + x^{10} + x^8 + x^6 + x^4 \\
&\quad + 1, \\
p_9(x) &= x^{134} + x^{126} + x^{122} + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} \\
&\quad + x^{96} + x^{92} + x^{90} + x^{86} + x^{84} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{66} \\
&\quad + x^{60} + x^{56} + x^{48} + x^{46} + x^{36} + x^{28} + x^{20} + x^{18} + x^{16} + x^{12} + x^{10} \\
&\quad + x^4 + x^2, \\
p_{12}(x) &= x^{138} + x^{136} + x^{130} + x^{128} + x^{122} + x^{120} + x^{114} + x^{112} + x^{106} + x^{104} \\
&\quad + x^{66} + x^{64} + x^{58} + x^{56} + x^{42} + x^{40} + x^{26} + x^{24} + x^{18} + x^{16} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{121} + x^{118} + x^{116} + x^{113} + x^{112} + x^{110} + x^{108} + x^{106} + x^{105} \\
&\quad + x^{103} + x^{101} + x^{100} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{87} + x^{86} \\
&\quad + x^{85} + x^{81} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} \\
&\quad + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} + x^{60} + x^{59} + x^{54} + x^{53} \\
&\quad + x^{52} + x^{50} + x^{49} + x^{47} + x^{44} + x^{43} + x^{42} + x^{36} + x^{34} + x^{33} + x^{29} \\
&\quad + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_3(x) &= x^{108} + x^{107} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{95} + x^{94} \\
&\quad + x^{93} + x^{91} + x^{90} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} + x^{79} + x^{74} + x^{73} \\
&\quad + x^{72} + x^{70} + x^{67} + x^{62} + x^{61} + x^{60} + x^{57} + x^{36} + x^{35} + x^{33} + x^{32} \\
&\quad + x^{31} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{21} + x^{20} + x^{19} + x^{17} + x^{14} \\
&\quad + x^{13} + x^{12} + x^9, \\
p_6(x) &= x^{114} + x^{112} + x^{109} + x^{107} + x^{105} + x^{104} + x^{98} + x^{96} + x^{93} + x^{92} \\
&\quad + x^{91} + x^{89} + x^{87} + x^{86} + x^{84} + x^{82} + x^{79} + x^{77} + x^{75} + x^{70} + x^{69} \\
&\quad + x^{68} + x^{58} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{43} + x^{42} + x^{41} + x^{39} \\
&\quad + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{24} + x^{22} + x^{20} + x^{19} + x^{17}
\end{aligned}$$

$$\begin{aligned}
& + x^{16} + x^{14} + x^{12} + x^{10} + x^9 + x^7 + x^6, \\
p_9(x) = & x^{120} + x^{119} + x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{107} + x^{102} + x^{101} \\
& + x^{99} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{81} \\
& + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{63} \\
& + x^{60} + x^{59} + x^{57} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} \\
& + x^{38} + x^{35} + x^{28} + x^{27} + x^{25} + x^{20} + x^{19} + x^{18} + x^{15} + x^{10} + x^9 \\
& + x^7 + x^6 + x^5 + x^3, \\
p_{12}(x) = & x^{126} + x^{122} + x^{121} + x^{120} + x^{110} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} \\
& + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{74} + x^{69} + x^{68} + x^{66} + x^{65} \\
& + x^{64} + x^{58} + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{46} + x^{41} + x^{40} + x^{37} \\
& + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} + x^{14} + x^9 + x^8 + x^5 \\
& + x^4 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{126} + x^{121} + x^{118} + x^{116} + x^{113} + x^{112} + x^{110} + x^{108} + x^{106} + x^{105} \\
& + x^{103} + x^{101} + x^{100} + x^{97} + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{87} + x^{86} \\
& + x^{85} + x^{81} + x^{80} + x^{79} + x^{78} + x^{76} + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} \\
& + x^{69} + x^{68} + x^{67} + x^{65} + x^{64} + x^{63} + x^{62} + x^{60} + x^{59} + x^{54} + x^{53} \\
& + x^{52} + x^{50} + x^{49} + x^{47} + x^{44} + x^{43} + x^{42} + x^{36} + x^{34} + x^{33} + x^{29} \\
& + x^{27} + x^{26} + x^{25} + x^{23} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18}, \\
p_3(x) = & x^{108} + x^{107} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{95} + x^{94} \\
& + x^{93} + x^{91} + x^{90} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} + x^{79} + x^{74} + x^{73} \\
& + x^{72} + x^{70} + x^{67} + x^{62} + x^{61} + x^{60} + x^{57} + x^{36} + x^{35} + x^{33} + x^{32} \\
& + x^{31} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{21} + x^{20} + x^{19} + x^{17} + x^{14} \\
& + x^{13} + x^{12} + x^9, \\
p_6(x) = & x^{114} + x^{112} + x^{109} + x^{107} + x^{105} + x^{104} + x^{98} + x^{96} + x^{93} + x^{92} \\
& + x^{91} + x^{89} + x^{87} + x^{86} + x^{84} + x^{82} + x^{79} + x^{77} + x^{75} + x^{70} + x^{69} \\
& + x^{68} + x^{58} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{43} + x^{42} + x^{41} + x^{39} \\
& + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{24} + x^{22} + x^{20} + x^{19} + x^{17} \\
& + x^{16} + x^{14} + x^{12} + x^{10} + x^9 + x^7 + x^6, \\
p_9(x) = & x^{120} + x^{119} + x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{107} + x^{102} + x^{101} \\
& + x^{99} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{81} \\
& + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{63} \\
& + x^{60} + x^{59} + x^{57} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} \\
& + x^{38} + x^{35} + x^{28} + x^{27} + x^{25} + x^{20} + x^{19} + x^{18} + x^{15} + x^{10} + x^9
\end{aligned}$$

$$\begin{aligned}
& + x^7 + x^6 + x^5 + x^3, \\
p_{12}(x) = & x^{126} + x^{122} + x^{121} + x^{120} + x^{110} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} \\
& + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{74} + x^{69} + x^{68} + x^{66} + x^{65} \\
& + x^{64} + x^{58} + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{46} + x^{41} + x^{40} + x^{37} \\
& + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} + x^{14} + x^9 + x^8 + x^5 \\
& + x^4 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{114} + x^{112} + x^{110} + x^{108} + x^{102} + x^{100} + x^{98} + x^{94} + x^{92} + x^{88} \\
& + x^{86} + x^{80} + x^{72} + x^{70} + x^{68} + x^{64} + x^{62} + x^{60} + x^{58} + x^{52} + x^{48} \\
& + x^{44} + x^{42} + x^{40} + x^{36} + x^{34} + x^{24}, \\
p_3(x) = & x^{110} + x^{104} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} \\
& + x^{78} + x^{76} + x^{74} + x^{72} + x^{70} + x^{68} + x^{64} + x^{62} + x^{46} + x^{40} + x^{30} \\
& + x^{26} + x^{24} + x^{20} + x^6, \\
p_6(x) = & x^{106} + x^{100} + x^{96} + x^{94} + x^{90} + x^{84} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} \\
& + x^{64} + x^{62} + x^{54} + x^{46} + x^{38} + x^{36} + x^{26} + x^{18} + x^{14} + x^{12} + x^8 \\
& + x^2 + 1, \\
p_9(x) = & x^{110} + x^{106} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{82} + x^{80} + x^{68} \\
& + x^{62} + x^{60} + x^{58} + x^{54} + x^{50} + x^{48} + x^{46} + x^{40} + x^{30} + x^{28} + x^{26} \\
& + x^{16} + x^{12} + x^{10} + x^8 + x^6 + x^2, \\
p_{12}(x) = & x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{96} + x^{82} + x^{80} \\
& + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} \\
& + x^{50} + x^{46} + x^{44} + x^{42} + x^{38} + x^{36} + x^{32} + x^{18} + x^{16} + x^{14} + x^{12} \\
& + x^{10} + x^6 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{94} + x^{84} \\
& + x^{82} + x^{78} + x^{76} + x^{74} + x^{72} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{56} \\
& + x^{44} + x^{38} + x^{36} + x^{18} + x^{16} + x^{12}, \\
p_3(x) = & x^{110} + x^{104} + x^{102} + x^{94} + x^{92} + x^{90} + x^{80} + x^{78} + x^{74} + x^{72} + x^{70} \\
& + x^{50} + x^{46} + x^{44} + x^{42} + x^{36} + x^{30} + x^{28} + x^{26} + x^{20} + x^{18} + x^{16} \\
& + x^{10} + x^8, \\
p_6(x) = & x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{90} + x^{86} + x^{76} + x^{72} + x^{64} + x^{60} \\
& + x^{52} + x^{48} + x^{46} + x^{38} + x^{34} + x^{30} + x^{28} + x^{26} + x^{24} + x^{20} + x^{14} \\
& + x^6 + x^4 + x^2 + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) &= x^{110} + x^{106} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{82} + x^{80} + x^{68} \\
&\quad + x^{62} + x^{60} + x^{58} + x^{54} + x^{50} + x^{48} + x^{46} + x^{40} + x^{30} + x^{28} + x^{26} \\
&\quad + x^{16} + x^{12} + x^{10} + x^8 + x^6 + x^2, \\
p_{12}(x) &= x^{114} + x^{112} + x^{110} + x^{108} + x^{106} + x^{102} + x^{100} + x^{96} + x^{82} + x^{80} \\
&\quad + x^{78} + x^{76} + x^{74} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{58} + x^{54} + x^{52} \\
&\quad + x^{50} + x^{46} + x^{44} + x^{42} + x^{38} + x^{36} + x^{32} + x^{18} + x^{16} + x^{14} + x^{12} \\
&\quad + x^{10} + x^6 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{121} + x^{118} + x^{116} + x^{114} + x^{113} + x^{110} + x^{109} + x^{108} + x^{107} \\
&\quad + x^{106} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{95} + x^{94} + x^{93} + x^{89} \\
&\quad + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} + x^{72} + x^{71} + x^{68} + x^{67} \\
&\quad + x^{66} + x^{65} + x^{62} + x^{58} + x^{57} + x^{49} + x^{47} + x^{44} + x^{43} + x^{42} + x^{41} \\
&\quad + x^{40} + x^{37} + x^{36} + x^{31} + x^{30} + x^{29} + x^{24}, \\
p_3(x) &= x^{108} + x^{107} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{95} + x^{94} \\
&\quad + x^{93} + x^{91} + x^{90} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} + x^{79} + x^{74} + x^{73} \\
&\quad + x^{72} + x^{70} + x^{67} + x^{62} + x^{61} + x^{60} + x^{57} + x^{36} + x^{35} + x^{33} + x^{32} \\
&\quad + x^{31} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{21} + x^{20} + x^{19} + x^{17} + x^{14} \\
&\quad + x^{13} + x^{12} + x^9, \\
p_6(x) &= x^{114} + x^{112} + x^{109} + x^{107} + x^{105} + x^{104} + x^{98} + x^{96} + x^{93} + x^{92} \\
&\quad + x^{91} + x^{89} + x^{87} + x^{86} + x^{84} + x^{82} + x^{79} + x^{77} + x^{75} + x^{70} + x^{69} \\
&\quad + x^{68} + x^{58} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{43} + x^{42} + x^{41} + x^{39} \\
&\quad + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{24} + x^{22} + x^{20} + x^{19} + x^{17} \\
&\quad + x^{16} + x^{14} + x^{12} + x^{10} + x^9 + x^7 + x^6, \\
p_9(x) &= x^{120} + x^{119} + x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{107} + x^{102} + x^{101} \\
&\quad + x^{99} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{81} \\
&\quad + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{63} \\
&\quad + x^{60} + x^{59} + x^{57} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} \\
&\quad + x^{38} + x^{35} + x^{28} + x^{27} + x^{25} + x^{20} + x^{19} + x^{18} + x^{15} + x^{10} + x^9 \\
&\quad + x^7 + x^6 + x^5 + x^3, \\
p_{12}(x) &= x^{126} + x^{122} + x^{121} + x^{120} + x^{110} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} \\
&\quad + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{74} + x^{69} + x^{68} + x^{66} + x^{65} \\
&\quad + x^{64} + x^{58} + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{46} + x^{41} + x^{40} + x^{37} \\
&\quad + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} + x^{14} + x^9 + x^8 + x^5 \\
&\quad + x^4 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{126} + x^{121} + x^{118} + x^{116} + x^{114} + x^{113} + x^{110} + x^{109} + x^{108} + x^{107} \\ & + x^{106} + x^{104} + x^{103} + x^{102} + x^{101} + x^{100} + x^{95} + x^{94} + x^{93} + x^{89} \\ & + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} + x^{72} + x^{71} + x^{68} + x^{67} \\ & + x^{66} + x^{65} + x^{62} + x^{58} + x^{57} + x^{49} + x^{47} + x^{44} + x^{43} + x^{42} + x^{41} \\ & + x^{40} + x^{37} + x^{36} + x^{31} + x^{30} + x^{29} + x^{24}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{108} + x^{107} + x^{105} + x^{104} + x^{103} + x^{102} + x^{100} + x^{98} + x^{95} + x^{94} \\ & + x^{93} + x^{91} + x^{90} + x^{89} + x^{87} + x^{84} + x^{83} + x^{82} + x^{79} + x^{74} + x^{73} \\ & + x^{72} + x^{70} + x^{67} + x^{62} + x^{61} + x^{60} + x^{57} + x^{36} + x^{35} + x^{33} + x^{32} \\ & + x^{31} + x^{30} + x^{27} + x^{26} + x^{25} + x^{24} + x^{21} + x^{20} + x^{19} + x^{17} + x^{14} \\ & + x^{13} + x^{12} + x^9, \end{aligned}$$

$$\begin{aligned} p_6(x) = & x^{114} + x^{112} + x^{109} + x^{107} + x^{105} + x^{104} + x^{98} + x^{96} + x^{93} + x^{92} \\ & + x^{91} + x^{89} + x^{87} + x^{86} + x^{84} + x^{82} + x^{79} + x^{77} + x^{75} + x^{70} + x^{69} \\ & + x^{68} + x^{58} + x^{53} + x^{52} + x^{50} + x^{49} + x^{46} + x^{43} + x^{42} + x^{41} + x^{39} \\ & + x^{38} + x^{37} + x^{36} + x^{34} + x^{33} + x^{32} + x^{24} + x^{22} + x^{20} + x^{19} + x^{17} \\ & + x^{16} + x^{14} + x^{12} + x^{10} + x^9 + x^7 + x^6, \end{aligned}$$

$$\begin{aligned} p_9(x) = & x^{120} + x^{119} + x^{118} + x^{116} + x^{114} + x^{112} + x^{110} + x^{107} + x^{102} + x^{101} \\ & + x^{99} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} + x^{87} + x^{86} + x^{85} + x^{84} + x^{81} \\ & + x^{78} + x^{77} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{66} + x^{63} \\ & + x^{60} + x^{59} + x^{57} + x^{50} + x^{49} + x^{47} + x^{46} + x^{45} + x^{44} + x^{42} + x^{40} \\ & + x^{38} + x^{35} + x^{28} + x^{27} + x^{25} + x^{20} + x^{19} + x^{18} + x^{15} + x^{10} + x^9 \\ & + x^7 + x^6 + x^5 + x^3, \end{aligned}$$

$$\begin{aligned} p_{12}(x) = & x^{126} + x^{122} + x^{121} + x^{120} + x^{110} + x^{105} + x^{104} + x^{101} + x^{100} + x^{98} \\ & + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{74} + x^{69} + x^{68} + x^{66} + x^{65} \\ & + x^{64} + x^{58} + x^{53} + x^{52} + x^{50} + x^{49} + x^{48} + x^{46} + x^{41} + x^{40} + x^{37} \\ & + x^{36} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} + x^{24} + x^{14} + x^9 + x^8 + x^5 \\ & + x^4 + x^2 + x + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) = & x^{138} + x^{136} + x^{128} + x^{126} + x^{116} + x^{112} + x^{98} + x^{92} + x^{90} + x^{88} \\ & + x^{86} + x^{84} + x^{82} + x^{76} + x^{72} + x^{70} + x^{68} + x^{62} + x^{60} + x^{56} + x^{50} \\ & + x^{48} + x^{46} + x^{44} + x^{42} + x^{40} + x^{36}, \end{aligned}$$

$$\begin{aligned} p_3(x) = & x^{134} + x^{130} + x^{128} + x^{126} + x^{122} + x^{120} + x^{118} + x^{108} + x^{102} + x^{94} \\ & + x^{92} + x^{90} + x^{84} + x^{82} + x^{80} + x^{68} + x^{56} + x^{54} + x^{50} + x^{48} + x^{46} \end{aligned}$$

$$\begin{aligned}
& + x^{42} + x^{40} + x^{36} + x^{34} + x^{32} + x^{30} + x^{28} + x^{26} + x^{24} + x^{20} + x^{18} \\
& + x^8 + x^6, \\
p_6(x) &= x^{130} + x^{126} + x^{124} + x^{116} + x^{114} + x^{110} + x^{106} + x^{98} + x^{96} + x^{94} \\
& + x^{90} + x^{86} + x^{78} + x^{74} + x^{72} + x^{60} + x^{58} + x^{56} + x^{52} + x^{50} + x^{48} \\
& + x^{46} + x^{38} + x^{30} + x^{28} + x^{26} + x^{24} + x^{16} + x^{14} + x^{10} + x^6 + 1, \\
p_9(x) &= x^{134} + x^{126} + x^{122} + x^{116} + x^{114} + x^{110} + x^{106} + x^{104} + x^{102} + x^{98} \\
& + x^{96} + x^{92} + x^{90} + x^{86} + x^{84} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{66} \\
& + x^{60} + x^{56} + x^{48} + x^{46} + x^{36} + x^{28} + x^{20} + x^{18} + x^{16} + x^{12} + x^{10} \\
& + x^4 + x^2, \\
p_{12}(x) &= x^{138} + x^{136} + x^{130} + x^{128} + x^{122} + x^{120} + x^{114} + x^{112} + x^{106} + x^{104} \\
& + x^{66} + x^{64} + x^{58} + x^{56} + x^{42} + x^{40} + x^{26} + x^{24} + x^{18} + x^{16} + x^2 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{122} + x^{121} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{111} + x^{110} \\
& + x^{109} + x^{107} + x^{101} + x^{99} + x^{95} + x^{91} + x^{90} + x^{87} + x^{85} + x^{84} + x^{80} \\
& + x^{79} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} \\
& + x^{58} + x^{55} + x^{54} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{40} \\
& + x^{39} + x^{37} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{16} \\
& + x^{15} + x^{13} + x^{12}, \\
p_3(x) &= x^{118} + x^{113} + x^{112} + x^{109} + x^{106} + x^{103} + x^{102} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{92} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} \\
& + x^{78} + x^{76} + x^{73} + x^{70} + x^{68} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{58} \\
& + x^{56} + x^{55} + x^{54} + x^{53} + x^{50} + x^{49} + x^{47} + x^{46} + x^{42} + x^{40} + x^{38} \\
& + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{27} + x^{24} + x^{22} + x^{20} + x^{19} + x^{14} \\
& + x^{13} + x^{11} + x^9 + x^8, \\
p_6(x) &= x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{107} + x^{106} + x^{103} + x^{101} + x^{100} \\
& + x^{99} + x^{98} + x^{95} + x^{92} + x^{89} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} \\
& + x^{75} + x^{74} + x^{72} + x^{69} + x^{67} + x^{64} + x^{62} + x^{59} + x^{58} + x^{56} + x^{55} \\
& + x^{49} + x^{48} + x^{46} + x^{44} + x^{43} + x^{42} + x^{39} + x^{36} + x^{35} + x^{34} + x^{33} \\
& + x^{32} + x^{29} + x^{28} + x^{24} + x^{21} + x^{18} + x^{16} + x^{15} + x^{14} + x^{10} + x^8 \\
& + x^7 + x^2 + x + 1, \\
p_9(x) &= x^{118} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} + x^{106} + x^{102} + x^{101} + x^{100} \\
& + x^{86} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{69} + x^{68} + x^{65} + x^{64} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{53} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} \\
& + x^{42} + x^{38} + x^{37} + x^{36} + x^{22} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{10}
\end{aligned}$$

$$\begin{aligned}
& + x^6 + x^5 + x^4, \\
p_{12}(x) = & x^{126} + x^{122} + x^{121} + x^{120} + x^{118} + x^{113} + x^{112} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{102} + x^{98} + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{86} \\
& + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{66} + x^{62} + x^{61} + x^{60} + x^{50} + x^{45} \\
& + x^{44} + x^{42} + x^{41} + x^{40} + x^{38} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} \\
& + x^{24} + x^{22} + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^6 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{124} + x^{118} + x^{115} + x^{113} + x^{107} + x^{106} + x^{103} + x^{100} + x^{98} + x^{96} \\
& + x^{95} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{85} + x^{84} + x^{83} + x^{81} + x^{79} \\
& + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{60} \\
& + x^{58} + x^{57} + x^{52} + x^{51} + x^{50} + x^{45} + x^{43} + x^{41} + x^{39} + x^{33} + x^{31} \\
& + x^{30} + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_3(x) = & x^{106} + x^{105} + x^{103} + x^{101} + x^{99} + x^{97} + x^{96} + x^{95} + x^{93} + x^{88} + x^{87} \\
& + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} \\
& + x^{75} + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{59} + x^{58} + x^{57} + x^{34} \\
& + x^{33} + x^{31} + x^{29} + x^{27} + x^{26} + x^{24} + x^{19} + x^{17} + x^{14} + x^{12} + x^{11} \\
& + x^{10} + x^9, \\
p_6(x) = & x^{112} + x^{110} + x^{106} + x^{104} + x^{96} + x^{94} + x^{88} + x^{86} + x^{82} + x^{80} + x^{76} \\
& + x^{74} + x^{72} + x^{68} + x^{56} + x^{48} + x^{46} + x^{44} + x^{38} + x^{32} + x^{22} + x^{20} \\
& + x^{18} + x^{16} + x^{12} + x^{10} + x^8 + x^6, \\
p_9(x) = & x^{118} + x^{117} + x^{116} + x^{112} + x^{111} + x^{109} + x^{106} + x^{104} + x^{100} + x^{99} \\
& + x^{86} + x^{85} + x^{84} + x^{80} + x^{79} + x^{77} + x^{74} + x^{72} + x^{70} + x^{69} + x^{67} \\
& + x^{64} + x^{63} + x^{61} + x^{58} + x^{56} + x^{54} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} \\
& + x^{42} + x^{40} + x^{36} + x^{35} + x^{22} + x^{21} + x^{20} + x^{16} + x^{15} + x^{13} + x^{10} \\
& + x^8 + x^4 + x^3, \\
p_{12}(x) = & x^{124} + x^{120} + x^{116} + x^{104} + x^{100} + x^{96} + x^{92} + x^{88} + x^{84} + x^{76} + x^{64} \\
& + x^{60} + x^{48} + x^{40} + x^{36} + x^{32} + x^{28} + x^{24} + x^{20} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{140} + x^{134} + x^{132} + x^{131} + x^{129} + x^{128} + x^{124} + x^{121} + x^{119} + x^{118} \\
& + x^{115} + x^{111} + x^{107} + x^{104} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} \\
& + x^{88} + x^{87} + x^{86} + x^{84} + x^{82} + x^{81} + x^{79} + x^{78} + x^{75} + x^{73} + x^{71} \\
& + x^{68} + x^{66} + x^{62} + x^{61} + x^{56} + x^{55} + x^{53} + x^{51} + x^{49} + x^{48} + x^{47} \\
& + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33} + x^{32} + x^{30} + x^{29} + x^{26} + x^{25}
\end{aligned}$$

$$\begin{aligned}
& + x^{24}, \\
p_3(x) &= x^{122} + x^{121} + x^{119} + x^{117} + x^{115} + x^{114} + x^{112} + x^{107} + x^{105} + x^{101} \\
& + x^{100} + x^{97} + x^{94} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} + x^{86} + x^{85} + x^{83} \\
& + x^{82} + x^{81} + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{50} + x^{49} + x^{47} + x^{45} + x^{43} \\
& + x^{41} + x^{40} + x^{39} + x^{37} + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{27} + x^{22} \\
& + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^9, \\
p_6(x) &= x^{128} + x^{126} + x^{122} + x^{118} + x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{98} \\
& + x^{94} + x^{90} + x^{88} + x^{86} + x^{82} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{62} \\
& + x^{60} + x^{56} + x^{46} + x^{42} + x^{34} + x^{30} + x^{22} + x^{20} + x^{14} + x^8 + x^6, \\
p_9(x) &= x^{134} + x^{133} + x^{132} + x^{128} + x^{127} + x^{126} + x^{124} + x^{122} + x^{119} + x^{117} \\
& + x^{116} + x^{115} + x^{113} + x^{110} + x^{109} + x^{108} + x^{106} + x^{103} + x^{102} \\
& + x^{101} + x^{99} + x^{96} + x^{95} + x^{94} + x^{92} + x^{90} + x^{87} + x^{86} + x^{83} + x^{81} \\
& + x^{80} + x^{79} + x^{77} + x^{70} + x^{68} + x^{65} + x^{64} + x^{63} + x^{61} + x^{53} + x^{49} \\
& + x^{46} + x^{45} + x^{44} + x^{42} + x^{39} + x^{38} + x^{37} + x^{35} + x^{32} + x^{31} + x^{30} \\
& + x^{28} + x^{26} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{14} + x^{13} + x^{12} + x^{10} \\
& + x^7 + x^4 + x^3, \\
p_{12}(x) &= x^{140} + x^{136} + x^{128} + x^{124} + x^{116} + x^{112} + x^{108} + x^{104} + x^{88} + x^{84} \\
& + x^{72} + x^{68} + x^{64} + x^{60} + x^{52} + x^{44} + x^{40} + x^{28} + x^{20} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{122} + x^{121} + x^{120} + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} + x^{109} \\
& + x^{108} + x^{106} + x^{104} + x^{102} + x^{101} + x^{100} + x^{96} + x^{95} + x^{93} + x^{92} \\
& + x^{91} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{74} + x^{71} \\
& + x^{69} + x^{68} + x^{66} + x^{65} + x^{64} + x^{62} + x^{60} + x^{59} + x^{57} + x^{56} + x^{54} \\
& + x^{53} + x^{51} + x^{50} + x^{48} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} \\
& + x^{34} + x^{33} + x^{32} + x^{30}, \\
p_3(x) &= x^{118} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} \\
& + x^{100} + x^{99} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{85} + x^{83} + x^{82} + x^{80} \\
& + x^{79} + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} \\
& + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{50} + x^{49} + x^{47} \\
& + x^{46} + x^{42} + x^{40} + x^{37} + x^{35} + x^{34} + x^{32} + x^{30} + x^{29} + x^{28} + x^{23} \\
& + x^{21} + x^{19} + x^{18} + x^{17} + x^{13} + x^{12}, \\
p_6(x) &= x^{118} + x^{116} + x^{111} + x^{110} + x^{108} + x^{106} + x^{103} + x^{102} + x^{99} + x^{98} \\
& + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82}
\end{aligned}$$

$$\begin{aligned}
& + x^{79} + x^{77} + x^{76} + x^{73} + x^{68} + x^{67} + x^{65} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{57} + x^{55} + x^{50} + x^{49} + x^{46} + x^{45} + x^{42} + x^{41} + x^{38} + x^{36} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{19} + x^{17} + x^{15} \\
& + x^{13} + x^5 + x^4 + x^2 + x + 1, \\
p_9(x) &= x^{118} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} + x^{106} + x^{102} + x^{101} + x^{100} \\
& + x^{86} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{69} + x^{68} + x^{65} + x^{64} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{53} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} \\
& + x^{42} + x^{38} + x^{37} + x^{36} + x^{22} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} \\
& + x^6 + x^5 + x^4, \\
p_{12}(x) &= x^{126} + x^{122} + x^{121} + x^{120} + x^{118} + x^{113} + x^{112} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{102} + x^{98} + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{86} \\
& + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{66} + x^{62} + x^{61} + x^{60} + x^{50} + x^{45} \\
& + x^{44} + x^{42} + x^{41} + x^{40} + x^{38} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} \\
& + x^{24} + x^{22} + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^6 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{122} + x^{121} + x^{120} + x^{118} + x^{116} + x^{114} + x^{112} + x^{111} + x^{110} \\
& + x^{109} + x^{107} + x^{101} + x^{99} + x^{95} + x^{91} + x^{90} + x^{87} + x^{85} + x^{84} + x^{80} \\
& + x^{79} + x^{76} + x^{73} + x^{72} + x^{71} + x^{69} + x^{66} + x^{65} + x^{63} + x^{62} + x^{61} \\
& + x^{58} + x^{55} + x^{54} + x^{52} + x^{51} + x^{49} + x^{48} + x^{46} + x^{44} + x^{42} + x^{40} \\
& + x^{39} + x^{37} + x^{36} + x^{34} + x^{32} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{16} \\
& + x^{15} + x^{13} + x^{12}, \\
p_3(x) &= x^{118} + x^{113} + x^{112} + x^{109} + x^{106} + x^{103} + x^{102} + x^{97} + x^{96} + x^{95} \\
& + x^{94} + x^{93} + x^{92} + x^{89} + x^{88} + x^{87} + x^{85} + x^{84} + x^{83} + x^{81} + x^{80} \\
& + x^{78} + x^{76} + x^{73} + x^{70} + x^{68} + x^{65} + x^{64} + x^{63} + x^{62} + x^{61} + x^{58} \\
& + x^{56} + x^{55} + x^{54} + x^{53} + x^{50} + x^{49} + x^{47} + x^{46} + x^{42} + x^{40} + x^{38} \\
& + x^{37} + x^{35} + x^{34} + x^{33} + x^{32} + x^{27} + x^{24} + x^{22} + x^{20} + x^{19} + x^{14} \\
& + x^{13} + x^{11} + x^9 + x^8, \\
p_6(x) &= x^{116} + x^{114} + x^{113} + x^{111} + x^{110} + x^{107} + x^{106} + x^{103} + x^{101} + x^{100} \\
& + x^{99} + x^{98} + x^{95} + x^{92} + x^{89} + x^{83} + x^{82} + x^{81} + x^{80} + x^{78} + x^{76} \\
& + x^{75} + x^{74} + x^{72} + x^{69} + x^{67} + x^{64} + x^{62} + x^{59} + x^{58} + x^{56} + x^{55} \\
& + x^{49} + x^{48} + x^{46} + x^{44} + x^{43} + x^{42} + x^{39} + x^{36} + x^{35} + x^{34} + x^{33} \\
& + x^{32} + x^{29} + x^{28} + x^{24} + x^{21} + x^{18} + x^{16} + x^{15} + x^{14} + x^{10} + x^8 \\
& + x^7 + x^2 + x + 1, \\
p_9(x) &= x^{118} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} + x^{106} + x^{102} + x^{101} + x^{100}
\end{aligned}$$

$$\begin{aligned}
& + x^{86} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{69} + x^{68} + x^{65} + x^{64} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{53} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} \\
& + x^{42} + x^{38} + x^{37} + x^{36} + x^{22} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} \\
& + x^6 + x^5 + x^4,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{126} + x^{122} + x^{121} + x^{120} + x^{118} + x^{113} + x^{112} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{102} + x^{98} + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{86} \\
& + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{66} + x^{62} + x^{61} + x^{60} + x^{50} + x^{45} \\
& + x^{44} + x^{42} + x^{41} + x^{40} + x^{38} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} \\
& + x^{24} + x^{22} + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^6 + x^2 + x + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{140} + x^{134} + x^{132} + x^{131} + x^{129} + x^{128} + x^{124} + x^{121} + x^{119} + x^{118} \\
& + x^{115} + x^{111} + x^{107} + x^{104} + x^{95} + x^{94} + x^{93} + x^{91} + x^{90} + x^{89} \\
& + x^{88} + x^{87} + x^{86} + x^{84} + x^{82} + x^{81} + x^{79} + x^{78} + x^{75} + x^{73} + x^{71} \\
& + x^{68} + x^{66} + x^{62} + x^{61} + x^{56} + x^{55} + x^{53} + x^{51} + x^{49} + x^{48} + x^{47} \\
& + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{33} + x^{32} + x^{30} + x^{29} + x^{26} + x^{25} \\
& + x^{24},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{122} + x^{121} + x^{119} + x^{117} + x^{115} + x^{114} + x^{112} + x^{107} + x^{105} + x^{101} \\
& + x^{100} + x^{97} + x^{94} + x^{93} + x^{92} + x^{91} + x^{89} + x^{88} + x^{86} + x^{85} + x^{83} \\
& + x^{82} + x^{81} + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{64} \\
& + x^{63} + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{50} + x^{49} + x^{47} + x^{45} + x^{43} \\
& + x^{41} + x^{40} + x^{39} + x^{37} + x^{34} + x^{33} + x^{32} + x^{29} + x^{28} + x^{27} + x^{22} \\
& + x^{19} + x^{18} + x^{17} + x^{16} + x^{15} + x^{13} + x^{12} + x^{11} + x^{10} + x^9,
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{128} + x^{126} + x^{122} + x^{118} + x^{114} + x^{110} + x^{108} + x^{106} + x^{104} + x^{98} \\
& + x^{94} + x^{90} + x^{88} + x^{86} + x^{82} + x^{80} + x^{78} + x^{74} + x^{72} + x^{68} + x^{62} \\
& + x^{60} + x^{56} + x^{46} + x^{42} + x^{34} + x^{30} + x^{22} + x^{20} + x^{14} + x^8 + x^6,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{134} + x^{133} + x^{132} + x^{128} + x^{127} + x^{126} + x^{124} + x^{122} + x^{119} + x^{117} \\
& + x^{116} + x^{115} + x^{113} + x^{110} + x^{109} + x^{108} + x^{106} + x^{103} + x^{102} \\
& + x^{101} + x^{99} + x^{96} + x^{95} + x^{94} + x^{92} + x^{90} + x^{87} + x^{86} + x^{83} + x^{81} \\
& + x^{80} + x^{79} + x^{77} + x^{70} + x^{68} + x^{65} + x^{64} + x^{63} + x^{61} + x^{53} + x^{49} \\
& + x^{46} + x^{45} + x^{44} + x^{42} + x^{39} + x^{38} + x^{37} + x^{35} + x^{32} + x^{31} + x^{30} \\
& + x^{28} + x^{26} + x^{23} + x^{21} + x^{20} + x^{19} + x^{17} + x^{14} + x^{13} + x^{12} + x^{10} \\
& + x^7 + x^4 + x^3,
\end{aligned}$$

$$\begin{aligned}
p_{12}(x) = & x^{140} + x^{136} + x^{128} + x^{124} + x^{116} + x^{112} + x^{108} + x^{104} + x^{88} + x^{84} \\
& + x^{72} + x^{68} + x^{64} + x^{60} + x^{52} + x^{44} + x^{40} + x^{28} + x^{20} + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{124} + x^{118} + x^{115} + x^{113} + x^{107} + x^{106} + x^{103} + x^{100} + x^{98} + x^{96} \\
&\quad + x^{95} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{85} + x^{84} + x^{83} + x^{81} + x^{79} \\
&\quad + x^{76} + x^{75} + x^{73} + x^{72} + x^{70} + x^{69} + x^{68} + x^{65} + x^{64} + x^{62} + x^{60} \\
&\quad + x^{58} + x^{57} + x^{52} + x^{51} + x^{50} + x^{45} + x^{43} + x^{41} + x^{39} + x^{33} + x^{31} \\
&\quad + x^{30} + x^{29} + x^{28} + x^{26} + x^{24} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_3(x) &= x^{106} + x^{105} + x^{103} + x^{101} + x^{99} + x^{97} + x^{96} + x^{95} + x^{93} + x^{88} + x^{87} \\
&\quad + x^{86} + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{77} + x^{76} \\
&\quad + x^{75} + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{59} + x^{58} + x^{57} + x^{34} \\
&\quad + x^{33} + x^{31} + x^{29} + x^{27} + x^{26} + x^{24} + x^{19} + x^{17} + x^{14} + x^{12} + x^{11} \\
&\quad + x^{10} + x^9, \\
p_6(x) &= x^{112} + x^{110} + x^{106} + x^{104} + x^{96} + x^{94} + x^{88} + x^{86} + x^{82} + x^{80} + x^{76} \\
&\quad + x^{74} + x^{72} + x^{68} + x^{56} + x^{48} + x^{46} + x^{44} + x^{38} + x^{32} + x^{22} + x^{20} \\
&\quad + x^{18} + x^{16} + x^{12} + x^{10} + x^8 + x^6, \\
p_9(x) &= x^{118} + x^{117} + x^{116} + x^{112} + x^{111} + x^{109} + x^{106} + x^{104} + x^{100} + x^{99} \\
&\quad + x^{86} + x^{85} + x^{84} + x^{80} + x^{79} + x^{77} + x^{74} + x^{72} + x^{70} + x^{69} + x^{67} \\
&\quad + x^{64} + x^{63} + x^{61} + x^{58} + x^{56} + x^{54} + x^{53} + x^{51} + x^{48} + x^{47} + x^{45} \\
&\quad + x^{42} + x^{40} + x^{36} + x^{35} + x^{22} + x^{21} + x^{20} + x^{16} + x^{15} + x^{13} + x^{10} \\
&\quad + x^8 + x^4 + x^3, \\
p_{12}(x) &= x^{124} + x^{120} + x^{116} + x^{104} + x^{100} + x^{96} + x^{92} + x^{88} + x^{84} + x^{76} + x^{64} \\
&\quad + x^{60} + x^{48} + x^{40} + x^{36} + x^{32} + x^{28} + x^{24} + x^{20} + x^8 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{126} + x^{122} + x^{121} + x^{120} + x^{116} + x^{113} + x^{112} + x^{111} + x^{110} + x^{109} \\
&\quad + x^{108} + x^{106} + x^{104} + x^{102} + x^{101} + x^{100} + x^{96} + x^{95} + x^{93} + x^{92} \\
&\quad + x^{91} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} + x^{82} + x^{80} + x^{79} + x^{74} + x^{71} \\
&\quad + x^{69} + x^{68} + x^{66} + x^{65} + x^{64} + x^{62} + x^{60} + x^{59} + x^{57} + x^{56} + x^{54} \\
&\quad + x^{53} + x^{51} + x^{50} + x^{48} + x^{45} + x^{44} + x^{43} + x^{42} + x^{40} + x^{39} + x^{38} \\
&\quad + x^{34} + x^{33} + x^{32} + x^{30}, \\
p_3(x) &= x^{118} + x^{113} + x^{112} + x^{110} + x^{109} + x^{106} + x^{105} + x^{103} + x^{102} + x^{101} \\
&\quad + x^{100} + x^{99} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{85} + x^{83} + x^{82} + x^{80} \\
&\quad + x^{79} + x^{74} + x^{73} + x^{71} + x^{70} + x^{69} + x^{68} + x^{67} + x^{66} + x^{65} + x^{63} \\
&\quad + x^{61} + x^{60} + x^{59} + x^{58} + x^{57} + x^{55} + x^{54} + x^{53} + x^{50} + x^{49} + x^{47} \\
&\quad + x^{46} + x^{42} + x^{40} + x^{37} + x^{35} + x^{34} + x^{32} + x^{30} + x^{29} + x^{28} + x^{23}
\end{aligned}$$

$$\begin{aligned}
& + x^{21} + x^{19} + x^{18} + x^{17} + x^{13} + x^{12}, \\
p_6(x) = & x^{118} + x^{116} + x^{111} + x^{110} + x^{108} + x^{106} + x^{103} + x^{102} + x^{99} + x^{98} \\
& + x^{96} + x^{95} + x^{92} + x^{91} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} + x^{83} + x^{82} \\
& + x^{79} + x^{77} + x^{76} + x^{73} + x^{68} + x^{67} + x^{65} + x^{62} + x^{61} + x^{60} + x^{59} \\
& + x^{57} + x^{55} + x^{50} + x^{49} + x^{46} + x^{45} + x^{42} + x^{41} + x^{38} + x^{36} + x^{35} \\
& + x^{34} + x^{33} + x^{32} + x^{30} + x^{29} + x^{28} + x^{25} + x^{24} + x^{19} + x^{17} + x^{15} \\
& + x^{13} + x^5 + x^4 + x^2 + x + 1, \\
p_9(x) = & x^{118} + x^{113} + x^{112} + x^{110} + x^{109} + x^{108} + x^{106} + x^{102} + x^{101} + x^{100} \\
& + x^{86} + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{74} + x^{69} + x^{68} + x^{65} + x^{64} \\
& + x^{62} + x^{61} + x^{60} + x^{58} + x^{53} + x^{52} + x^{49} + x^{48} + x^{46} + x^{45} + x^{44} \\
& + x^{42} + x^{38} + x^{37} + x^{36} + x^{22} + x^{17} + x^{16} + x^{14} + x^{13} + x^{12} + x^{10} \\
& + x^6 + x^5 + x^4, \\
p_{12}(x) = & x^{126} + x^{122} + x^{121} + x^{120} + x^{118} + x^{113} + x^{112} + x^{109} + x^{108} + x^{106} \\
& + x^{105} + x^{104} + x^{102} + x^{98} + x^{97} + x^{96} + x^{94} + x^{90} + x^{89} + x^{88} + x^{86} \\
& + x^{81} + x^{80} + x^{78} + x^{77} + x^{76} + x^{66} + x^{62} + x^{61} + x^{60} + x^{50} + x^{45} \\
& + x^{44} + x^{42} + x^{41} + x^{40} + x^{38} + x^{34} + x^{33} + x^{32} + x^{30} + x^{26} + x^{25} \\
& + x^{24} + x^{22} + x^{17} + x^{16} + x^{13} + x^{12} + x^{10} + x^9 + x^8 + x^6 + x^2 + x + 1,
\end{aligned}$$

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

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]	2022	[3540, 3541]	4044	[6072, 6073]	6066	[3682, 7542]
1	[3, 4]	2023	[3542, 3543]	4045	[3155, 6074]	6067	[6949, 3321]
2	[5, 6]	2024	[3544, 260]	4046	[6075, 6076]	6068	[3946, 6872]
3	[7, 8]	2025	[3545, 3546]	4047	[6077, 6078]	6069	[4903, 4676]
4	[9, 10]	2026	[3547, 3548]	4048	[6079, 541]	6070	[7051, 4438]
5	[11, 12]	2027	[3549, 3550]	4049	[6080, 5220]	6071	[7543, 1079]
6	[13, 14]	2028	[3234, 3467]	4050	[5390, 2255]	6072	[4352, 3690]
7	[15, 16]	2029	[3551, 3552]	4051	[6081, 2987]	6073	[7242, 3692]
8	[17, 18]	2030	[3553, 3554]	4052	[6082, 6083]	6074	[7248, 7544]
9	[19, 20]	2031	[3555, 3556]	4053	[6084, 6045]	6075	[7545, 3257]
10	[21, 22]	2032	[3557, 3558]	4054	[6085, 5385]	6076	[7546, 3259]
11	[23, 24]	2033	[3559, 3560]	4055	[6086, 6087]	6077	[7547, 7078]
12	[25, 26]	2034	[1028, 3561]	4056	[2364, 6088]	6078	[7267, 7548]
13	[27, 28]	2035	[3562, 955]	4057	[5855, 6089]	6079	[1145, 6828]
14	[29, 30]	2036	[3490, 3563]	4058	[2715, 6090]	6080	[3772, 6957]
15	[31, 32]	2037	[1309, 3564]	4059	[6091, 6092]	6081	[7549, 7362]
16	[33, 34]	2038	[3565, 3566]	4060	[2642, 6093]	6082	[7550, 3322]

17	[35, 36]	2039	[3567, 3568]	4061	[2439, 1807]	6083	[7551, 1712]
18	[37, 38]	2040	[357, 3484]	4062	[6094, 193]	6084	[402, 1716]
19	[39, 40]	2041	[3246, 3569]	4063	[6095, 586]	6085	[4598, 7552]
20	[41, 42]	2042	[1338, 3570]	4064	[6096, 5434]	6086	[3749, 7553]
21	[43, 44]	2043	[3571, 3572]	4065	[6097, 6098]	6087	[7536, 3782]
22	[45, 46]	2044	[3573, 3574]	4066	[2137, 13]	6088	[4060, 7123]
23	[47, 48]	2045	[3575, 3576]	4067	[5040, 5101]	6089	[7061, 3821]
24	[49, 50]	2046	[3515, 3577]	4068	[6099, 6100]	6090	[3696, 4534]
25	[51, 52]	2047	[3578, 3579]	4069	[6101, 783]	6091	[7554, 7555]
26	[53, 54]	2048	[1295, 1249]	4070	[6102, 6103]	6092	[7518, 1559]
27	[55, 56]	2049	[3580, 3581]	4071	[6104, 2937]	6093	[4448, 7556]
28	[57, 58]	2050	[3582, 3583]	4072	[6105, 6106]	6094	[7043, 7521]
29	[59, 60]	2051	[3584, 3585]	4073	[5976, 5341]	6095	[3221, 3948]
30	[61, 62]	2052	[3586, 3587]	4074	[5989, 5097]	6096	[7557, 1444]
31	[63, 64]	2053	[3588, 1008]	4075	[6107, 5817]	6097	[4891, 123]
32	[65, 66]	2054	[3589, 1403]	4076	[6108, 1944]	6098	[6985, 7558]
33	[67, 68]	2055	[3590, 16]	4077	[6109, 1945]	6099	[4252, 3406]
34	[69, 70]	2056	[3591, 3592]	4078	[691, 1942]	6100	[7559, 3298]
35	[71, 72]	2057	[3593, 3594]	4079	[6110, 5884]	6101	[7560, 7561]
36	[73, 74]	2058	[3595, 3596]	4080	[6111, 6112]	6102	[4656, 7562]
37	[75, 76]	2059	[3597, 3598]	4081	[6113, 5310]	6103	[7563, 1179]
38	[77, 78]	2060	[3599, 3600]	4082	[2145, 6114]	6104	[7035, 1645]
39	[79, 80]	2061	[3601, 25]	4083	[228, 6115]	6105	[7564, 3930]
40	[81, 82]	2062	[3602, 3603]	4084	[1919, 6116]	6106	[980, 1710]
41	[83, 84]	2063	[3604, 3605]	4085	[6117, 6118]	6107	[5011, 7565]
42	[85, 86]	2064	[3606, 3607]	4086	[6119, 2207]	6108	[4036, 1334]
43	[87, 88]	2065	[3608, 3609]	4087	[6120, 6121]	6109	[7361, 3424]
44	[89, 90]	2066	[962, 3610]	4088	[6122, 6123]	6110	[7566, 7567]
45	[91, 92]	2067	[3611, 1576]	4089	[2321, 5760]	6111	[7508, 7143]
46	[93, 94]	2068	[3612, 3613]	4090	[5762, 2451]	6112	[4, 7568]
47	[95, 96]	2069	[3614, 3615]	4091	[5764, 1940]	6113	[7569, 363]
48	[97, 98]	2070	[3616, 3617]	4092	[2532, 2486]	6114	[3729, 7206]
49	[99, 100]	2071	[70, 3618]	4093	[5446, 2936]	6115	[4788, 7074]
50	[101, 102]	2072	[3619, 3620]	4094	[2208, 5078]	6116	[1477, 3612]
51	[103, 104]	2073	[3621, 3622]	4095	[6124, 6125]	6117	[6800, 7570]
52	[105, 106]	2074	[3623, 3624]	4096	[6126, 6127]	6118	[7335, 7571]
53	[107, 108]	2075	[3625, 3626]	4097	[6128, 5399]	6119	[7572, 6797]
54	[109, 110]	2076	[3627, 3628]	4098	[5181, 2941]	6120	[319, 1457]
55	[111, 112]	2077	[3629, 3630]	4099	[2394, 163]	6121	[7573, 7259]
56	[113, 114]	2078	[3421, 1195]	4100	[2294, 161]	6122	[3196, 4648]
57	[115, 116]	2079	[3631, 3632]	4101	[2738, 6129]	6123	[7235, 7543]
58	[117, 118]	2080	[3633, 3634]	4102	[6130, 6131]	6124	[7574, 7575]
59	[119, 120]	2081	[1462, 3635]	4103	[2419, 2247]	6125	[7462, 7493]
60	[121, 122]	2082	[3636, 3637]	4104	[6132, 6133]	6126	[4230, 4477]

61	[123, 124]	2083	[3533, 3638]	4105	[6134, 2702]	6127	[286, 7569]
62	[125, 126]	2084	[290, 3639]	4106	[6135, 6136]	6128	[3953, 7154]
63	[127, 128]	2085	[366, 3640]	4107	[5017, 754]	6129	[4557, 1778]
64	[129, 130]	2086	[1078, 3641]	4108	[2694, 5955]	6130	[4765, 7227]
65	[131, 132]	2087	[1000, 3642]	4109	[6137, 5959]	6131	[3908, 340]
66	[133, 134]	2088	[3643, 3644]	4110	[6138, 750]	6132	[7576, 4076]
67	[135, 136]	2089	[408, 3645]	4111	[6139, 6140]	6133	[7577, 7576]
68	[137, 138]	2090	[3646, 3647]	4112	[6141, 6142]	6134	[7448, 7194]
69	[139, 140]	2091	[3648, 1258]	4113	[641, 2766]	6135	[7258, 1494]
70	[141, 142]	2092	[3649, 3650]	4114	[130, 5864]	6136	[7578, 3567]
71	[143, 144]	2093	[3651, 1107]	4115	[2763, 2122]	6137	[7312, 7490]
72	[145, 146]	2094	[3652, 3653]	4116	[6143, 2045]	6138	[3862, 4669]
73	[147, 148]	2095	[474, 3654]	4117	[6144, 2981]	6139	[7579, 7097]
74	[149, 150]	2096	[3655, 3656]	4118	[5285, 1924]	6140	[7580, 3759]
75	[151, 152]	2097	[294, 3657]	4119	[5555, 2424]	6141	[7581, 7582]
76	[153, 154]	2098	[3658, 3659]	4120	[2911, 2891]	6142	[4522, 391]
77	[155, 156]	2099	[3660, 3661]	4121	[2709, 6145]	6143	[7583, 4279]
78	[157, 158]	2100	[3662, 3663]	4122	[2117, 2839]	6144	[7584, 4831]
79	[159, 160]	2101	[3664, 3665]	4123	[658, 6146]	6145	[7585, 4942]
80	[161, 162]	2102	[3666, 3667]	4124	[6147, 6148]	6146	[3568, 7209]
81	[163, 39]	2103	[3668, 3669]	4125	[5649, 5395]	6147	[7449, 6820]
82	[164, 165]	2104	[3670, 3671]	4126	[5724, 5870]	6148	[6984, 3939]
83	[166, 167]	2105	[3672, 3673]	4127	[6088, 6149]	6149	[1152, 7586]
84	[168, 169]	2106	[1629, 3674]	4128	[6150, 5986]	6150	[6819, 4556]
85	[170, 171]	2107	[80, 3675]	4129	[6151, 6152]	6151	[3754, 4090]
86	[169, 172]	2108	[3676, 3677]	4130	[6153, 2169]	6152	[7587, 4095]
87	[173, 174]	2109	[3678, 3679]	4131	[6154, 5188]	6153	[7588, 4320]
88	[175, 176]	2110	[26, 3680]	4132	[5983, 6155]	6154	[1074, 4224]
89	[177, 178]	2111	[3681, 3682]	4133	[6156, 5279]	6155	[7589, 6948]
90	[179, 180]	2112	[3683, 3684]	4134	[2964, 6157]	6156	[6896, 7590]
91	[181, 182]	2113	[1695, 1604]	4135	[2732, 5904]	6157	[4137, 301]
92	[183, 184]	2114	[1363, 3685]	4136	[6158, 2078]	6158	[1402, 3437]
93	[185, 186]	2115	[1168, 3686]	4137	[6159, 6160]	6159	[6862, 4532]
94	[187, 188]	2116	[3687, 1254]	4138	[6161, 2339]	6160	[7591, 4565]
95	[189, 190]	2117	[3688, 3689]	4139	[683, 2213]	6161	[7592, 4580]
96	[191, 192]	2118	[3690, 3691]	4140	[6162, 5891]	6162	[334, 7217]
97	[193, 194]	2119	[3692, 3693]	4141	[6163, 6164]	6163	[3432, 7593]
98	[195, 196]	2120	[1220, 3694]	4142	[830, 5554]	6164	[5005, 6969]
99	[197, 198]	2121	[3695, 3696]	4143	[5831, 2433]	6165	[4198, 3962]
100	[199, 200]	2122	[3697, 3698]	4144	[2427, 2643]	6166	[6873, 1614]
101	[201, 202]	2123	[3699, 3700]	4145	[2061, 2474]	6167	[7594, 3384]
102	[203, 204]	2124	[3701, 1019]	4146	[563, 6165]	6168	[7595, 1383]
103	[205, 206]	2125	[3702, 3212]	4147	[2366, 6166]	6169	[1596, 7596]
104	[207, 208]	2126	[3703, 3704]	4148	[626, 5722]	6170	[3727, 7139]

105	[209, 210]	2127	[3705, 3706]	4149	[6167, 1831]	6171	[7597, 7503]
106	[211, 212]	2128	[3707, 3708]	4150	[6168, 6169]	6172	[7598, 7098]
107	[213, 214]	2129	[1728, 1193]	4151	[2227, 5544]	6173	[7357, 7599]
108	[215, 216]	2130	[3709, 3710]	4152	[2102, 6170]	6174	[1164, 7600]
109	[217, 218]	2131	[3711, 3712]	4153	[5966, 2097]	6175	[1425, 4490]
110	[219, 220]	2132	[3713, 1341]	4154	[2248, 5299]	6176	[4153, 7601]
111	[221, 222]	2133	[3243, 3714]	4155	[888, 6049]	6177	[1568, 7602]
112	[223, 224]	2134	[3715, 3716]	4156	[6171, 6172]	6178	[7603, 7604]
113	[225, 226]	2135	[3717, 3423]	4157	[6173, 6038]	6179	[7460, 7605]
114	[227, 228]	2136	[3718, 3719]	4158	[5878, 6174]	6180	[3806, 7606]
115	[229, 230]	2137	[3720, 1273]	4159	[6175, 2842]	6181	[4610, 1104]
116	[231, 232]	2138	[3721, 1630]	4160	[2311, 5586]	6182	[7607, 7608]
117	[233, 234]	2139	[3722, 3723]	4161	[6176, 829]	6183	[7609, 7610]
118	[235, 236]	2140	[3724, 3687]	4162	[6177, 6178]	6184	[4002, 4906]
119	[237, 238]	2141	[3725, 3498]	4163	[6179, 6180]	6185	[1068, 3909]
120	[239, 240]	2142	[3726, 3727]	4164	[5206, 6181]	6186	[7180, 7499]
121	[241, 242]	2143	[3188, 3728]	4165	[6036, 3117]	6187	[7419, 7002]
122	[243, 244]	2144	[3539, 3729]	4166	[6182, 6183]	6188	[4827, 3170]
123	[245, 246]	2145	[3730, 3731]	4167	[2276, 6184]	6189	[7077, 6881]
124	[247, 248]	2146	[3706, 3732]	4168	[5825, 6185]	6190	[7611, 3701]
125	[198, 249]	2147	[3733, 3734]	4169	[5927, 610]	6191	[3232, 4617]
126	[250, 251]	2148	[3735, 3736]	4170	[6186, 5423]	6192	[7612, 971]
127	[252, 253]	2149	[3737, 3590]	4171	[38, 6187]	6193	[7613, 3317]
128	[254, 255]	2150	[3483, 3738]	4172	[6188, 6189]	6194	[7317, 7300]
129	[256, 257]	2151	[3739, 3740]	4173	[3073, 5135]	6195	[3817, 1780]
130	[258, 259]	2152	[3741, 1205]	4174	[6190, 1813]	6196	[3758, 1155]
131	[260, 261]	2153	[3742, 1567]	4175	[6191, 5043]	6197	[1356, 1455]
132	[262, 263]	2154	[3743, 346]	4176	[6192, 6193]	6198	[7614, 3514]
133	[264, 265]	2155	[3744, 3745]	4177	[5670, 6194]	6199	[4959, 7615]
134	[266, 267]	2156	[3746, 3747]	4178	[6195, 6196]	6200	[7019, 3544]
135	[268, 269]	2157	[3748, 3749]	4179	[6197, 6198]	6201	[7282, 983]
136	[270, 271]	2158	[3750, 3751]	4180	[5851, 2351]	6202	[7086, 7109]
137	[272, 273]	2159	[3752, 335]	4181	[2389, 6199]	6203	[4289, 3789]
138	[274, 275]	2160	[3753, 3754]	4182	[6200, 5687]	6204	[7616, 3816]
139	[263, 276]	2161	[3755, 3756]	4183	[5183, 6201]	6205	[7455, 3724]
140	[277, 278]	2162	[3757, 3758]	4184	[6202, 6203]	6206	[4019, 4683]
141	[279, 280]	2163	[3759, 3760]	4185	[5264, 6204]	6207	[7135, 1241]
142	[281, 282]	2164	[3761, 3762]	4186	[6205, 6061]	6208	[1646, 7440]
143	[283, 284]	2165	[3763, 270]	4187	[2340, 6206]	6209	[3710, 4222]
144	[285, 286]	2166	[3764, 3765]	4188	[720, 5882]	6210	[7365, 7271]
145	[287, 288]	2167	[3766, 3767]	4189	[2796, 3017]	6211	[7039, 4393]
146	[289, 290]	2168	[3768, 3769]	4190	[6207, 6208]	6212	[1658, 4799]
147	[291, 292]	2169	[3770, 3771]	4191	[6160, 3094]	6213	[4820, 3619]
148	[293, 294]	2170	[1458, 3772]	4192	[5751, 3055]	6214	[4223, 3176]

149	[295, 296]	2171	[3324, 3773]	4193	[906, 205]	6215	[7223, 7617]
150	[297, 298]	2172	[3774, 3775]	4194	[3119, 2090]	6216	[7128, 7597]
151	[299, 300]	2173	[3776, 3777]	4195	[2581, 6153]	6217	[7352, 6877]
152	[301, 302]	2174	[3778, 3779]	4196	[3014, 2630]	6218	[4651, 7618]
153	[303, 304]	2175	[3780, 3781]	4197	[919, 6209]	6219	[6839, 7619]
154	[305, 113]	2176	[3782, 1475]	4198	[5748, 6210]	6220	[4672, 6924]
155	[306, 307]	2177	[3783, 3784]	4199	[6211, 5266]	6221	[432, 7620]
156	[308, 309]	2178	[3785, 3786]	4200	[6054, 6086]	6222	[3860, 7621]
157	[310, 311]	2179	[1407, 3787]	4201	[6212, 6213]	6223	[7622, 4819]
158	[312, 313]	2180	[1409, 3788]	4202	[6214, 5705]	6224	[7623, 7445]
159	[314, 315]	2181	[3789, 3428]	4203	[6215, 6216]	6225	[4329, 7624]
160	[316, 317]	2182	[3790, 3791]	4204	[865, 6217]	6226	[7187, 7475]
161	[318, 319]	2183	[1202, 3792]	4205	[6218, 6219]	6227	[7435, 1175]
162	[320, 321]	2184	[3793, 3794]	4206	[5230, 6220]	6228	[1170, 6946]
163	[322, 81]	2185	[3795, 997]	4207	[220, 6221]	6229	[4530, 7148]
164	[323, 324]	2186	[3796, 3797]	4208	[6222, 6223]	6230	[7049, 413]
165	[325, 326]	2187	[3798, 3799]	4209	[186, 6224]	6231	[4824, 7625]
166	[327, 328]	2188	[3800, 3801]	4210	[6198, 6225]	6232	[4519, 1100]
167	[329, 330]	2189	[1668, 3802]	4211	[6226, 6227]	6233	[3844, 3937]
168	[331, 332]	2190	[3803, 3804]	4212	[901, 2112]	6234	[7626, 1699]
169	[333, 334]	2191	[3805, 3806]	4213	[167, 2619]	6235	[7253, 4741]
170	[335, 336]	2192	[3807, 397]	4214	[2369, 547]	6236	[7270, 6925]
171	[78, 337]	2193	[1497, 3808]	4215	[2926, 6228]	6237	[1662, 6942]
172	[338, 339]	2194	[3809, 3810]	4216	[6090, 6229]	6238	[7627, 4705]
173	[340, 341]	2195	[3811, 3812]	4217	[6230, 6159]	6239	[4119, 365]
174	[342, 343]	2196	[3813, 3814]	4218	[2305, 5494]	6240	[3988, 7523]
175	[344, 345]	2197	[3815, 1547]	4219	[2975, 6231]	6241	[7628, 7629]
176	[346, 347]	2198	[3816, 3817]	4220	[1879, 2461]	6242	[6910, 4401]
177	[348, 349]	2199	[3818, 1351]	4221	[2556, 2456]	6243	[1194, 4491]
178	[350, 351]	2200	[3819, 3820]	4222	[5227, 5595]	6244	[4769, 4496]
179	[352, 353]	2201	[3821, 3822]	4223	[6232, 6233]	6245	[6860, 5007]
180	[354, 355]	2202	[3823, 3824]	4224	[2004, 2523]	6246	[7630, 3313]
181	[356, 357]	2203	[3825, 3826]	4225	[2006, 2661]	6247	[1603, 4413]
182	[358, 268]	2204	[3827, 3828]	4226	[6234, 903]	6248	[4697, 7392]
183	[359, 360]	2205	[3829, 1049]	4227	[3153, 5368]	6249	[4280, 7393]
184	[361, 362]	2206	[3830, 377]	4228	[2777, 6235]	6250	[6867, 3918]
185	[363, 364]	2207	[3831, 3832]	4229	[2087, 6236]	6251	[7159, 1659]
186	[365, 366]	2208	[3833, 3267]	4230	[6237, 5131]	6252	[4103, 1207]
187	[367, 368]	2209	[3479, 492]	4231	[6238, 6239]	6253	[7513, 4896]
188	[369, 370]	2210	[3397, 3834]	4232	[565, 6240]	6254	[6847, 7631]
189	[371, 372]	2211	[3814, 3835]	4233	[6011, 2693]	6255	[304, 7434]
190	[373, 374]	2212	[1320, 3836]	4234	[6012, 5226]	6256	[1316, 316]
191	[375, 376]	2213	[3837, 3838]	4235	[6121, 564]	6257	[7453, 7103]
192	[377, 378]	2214	[1303, 3839]	4236	[6241, 5772]	6258	[7562, 6996]

193	[379, 380]	2215	[3786, 3840]	4237	[6242, 6243]	6259	[7632, 3982]
194	[381, 382]	2216	[3841, 3842]	4238	[2928, 6244]	6260	[996, 6776]
195	[383, 384]	2217	[1122, 3158]	4239	[5107, 6245]	6261	[3734, 6907]
196	[385, 386]	2218	[3843, 4]	4240	[6246, 1805]	6262	[7633, 7634]
197	[387, 388]	2219	[1490, 3844]	4241	[6000, 6247]	6263	[1255, 1574]
198	[389, 390]	2220	[3845, 3846]	4242	[6227, 612]	6264	[102, 4900]
199	[391, 392]	2221	[3847, 3848]	4243	[6248, 5792]	6265	[7635, 1090]
200	[393, 394]	2222	[3849, 3850]	4244	[5121, 5642]	6266	[4657, 7636]
201	[395, 396]	2223	[3775, 3851]	4245	[2079, 6249]	6267	[7637, 7638]
202	[397, 398]	2224	[3852, 3853]	4246	[5499, 6250]	6268	[3779, 4074]
203	[399, 400]	2225	[3854, 3780]	4247	[6089, 3043]	6269	[1542, 4713]
204	[401, 402]	2226	[3855, 3856]	4248	[6251, 6252]	6270	[4024, 3646]
205	[403, 404]	2227	[3857, 3858]	4249	[6253, 2200]	6271	[7617, 7639]
206	[405, 406]	2228	[3859, 3860]	4250	[884, 6254]	6272	[7640, 6805]
207	[407, 408]	2229	[296, 279]	4251	[2591, 6255]	6273	[7310, 7588]
208	[409, 410]	2230	[3861, 3862]	4252	[2995, 6256]	6274	[4892, 3966]
209	[411, 412]	2231	[66, 3863]	4253	[5465, 5964]	6275	[6874, 7641]
210	[413, 414]	2232	[3864, 3865]	4254	[5883, 6257]	6276	[7642, 4116]
211	[415, 416]	2233	[3866, 3867]	4255	[2589, 3141]	6277	[1187, 4810]
212	[417, 418]	2234	[3868, 3869]	4256	[6258, 6259]	6278	[3454, 7380]
213	[419, 420]	2235	[349, 3614]	4257	[6260, 6261]	6279	[4484, 7643]
214	[421, 422]	2236	[3870, 3871]	4258	[2955, 5813]	6280	[7089, 7379]
215	[423, 424]	2237	[1681, 3872]	4259	[2258, 6262]	6281	[1106, 7401]
216	[425, 426]	2238	[1189, 3873]	4260	[2754, 2863]	6282	[3300, 7115]
217	[427, 428]	2239	[3874, 3819]	4261	[6047, 6263]	6283	[7618, 4442]
218	[429, 430]	2240	[3875, 3876]	4262	[6264, 239]	6284	[4599, 7376]
219	[431, 432]	2241	[3583, 3877]	4263	[5933, 6265]	6285	[7644, 4717]
220	[433, 434]	2242	[3878, 1370]	4264	[6266, 6267]	6286	[7645, 7509]
221	[435, 436]	2243	[3879, 3880]	4265	[655, 6268]	6287	[4437, 1375]
222	[437, 438]	2244	[3881, 1121]	4266	[5696, 6269]	6288	[7646, 7647]
223	[439, 440]	2245	[3882, 3883]	4267	[5836, 6270]	6289	[3615, 4507]
224	[441, 442]	2246	[3884, 3885]	4268	[6271, 6272]	6290	[6900, 6883]
225	[443, 444]	2247	[3886, 3887]	4269	[2885, 2639]	6291	[6974, 1447]
226	[445, 446]	2248	[3888, 3889]	4270	[3037, 2641]	6292	[3957, 4688]
227	[447, 448]	2249	[3890, 1105]	4271	[5246, 6273]	6293	[3644, 3987]
228	[436, 449]	2250	[1713, 1434]	4272	[5238, 514]	6294	[3200, 4778]
229	[450, 451]	2251	[3891, 3892]	4273	[5300, 5749]	6295	[4943, 7648]
230	[452, 453]	2252	[3893, 3894]	4274	[6274, 1874]	6296	[7649, 1776]
231	[454, 455]	2253	[3895, 3896]	4275	[5202, 6275]	6297	[7600, 7650]
232	[456, 457]	2254	[974, 3897]	4276	[6276, 6277]	6298	[3856, 7649]
233	[458, 459]	2255	[3898, 3899]	4277	[5837, 2304]	6299	[1120, 3506]
234	[460, 461]	2256	[3900, 3901]	4278	[2025, 131]	6300	[4689, 266]
235	[462, 463]	2257	[3902, 3903]	4279	[2396, 6278]	6301	[4859, 7296]
236	[317, 464]	2258	[3904, 3905]	4280	[6279, 6280]	6302	[7647, 7651]

237	[465, 466]	2259	[3359, 3906]	4281	[6281, 3070]	6303	[7303, 1440]
238	[467, 468]	2260	[3907, 979]	4282	[5323, 6282]	6304	[1751, 4138]
239	[469, 470]	2261	[1756, 3908]	4283	[6283, 5463]	6305	[7269, 7652]
240	[471, 472]	2262	[3909, 3910]	4284	[6284, 6285]	6306	[7639, 7457]
241	[473, 474]	2263	[1594, 3662]	4285	[3026, 5628]	6307	[3169, 7294]
242	[475, 476]	2264	[3911, 1096]	4286	[6286, 5469]	6308	[1112, 3203]
243	[477, 478]	2265	[3291, 3912]	4287	[5853, 6287]	6309	[3822, 399]
244	[479, 480]	2266	[3913, 3914]	4288	[2913, 2249]	6310	[7653, 3244]
245	[481, 482]	2267	[1190, 3915]	4289	[5061, 2876]	6311	[7593, 1280]
246	[483, 484]	2268	[1192, 1737]	4290	[2187, 5842]	6312	[6882, 1282]
247	[485, 486]	2269	[3916, 3917]	4291	[6288, 6289]	6313	[7236, 4256]
248	[487, 488]	2270	[3918, 3919]	4292	[836, 5491]	6314	[4235, 4458]
249	[388, 489]	2271	[3694, 1446]	4293	[5599, 5167]	6315	[1427, 4704]
250	[490, 491]	2272	[360, 1657]	4294	[6290, 6237]	6316	[7530, 3565]
251	[492, 493]	2273	[3920, 3921]	4295	[152, 6291]	6317	[7397, 4954]
252	[494, 495]	2274	[3922, 3398]	4296	[863, 6292]	6318	[7479, 1759]
253	[496, 497]	2275	[3784, 3923]	4297	[6293, 3084]	6319	[3163, 1753]
254	[498, 499]	2276	[1775, 3924]	4298	[6294, 6295]	6320	[7654, 4351]
255	[500, 501]	2277	[3925, 3926]	4299	[10, 6296]	6321	[3368, 7655]
256	[502, 503]	2278	[3927, 3928]	4300	[5635, 6110]	6322	[7003, 3270]
257	[504, 505]	2279	[463, 3929]	4301	[5785, 6297]	6323	[4615, 3941]
258	[506, 507]	2280	[3930, 3931]	4302	[6298, 6299]	6324	[7656, 6769]
259	[508, 509]	2281	[3415, 3582]	4303	[5406, 6135]	6325	[7657, 1134]
260	[510, 511]	2282	[3932, 1761]	4304	[6300, 6301]	6326	[7417, 3627]
261	[512, 513]	2283	[3933, 1073]	4305	[2723, 839]	6327	[7281, 7658]
262	[514, 515]	2284	[1274, 3488]	4306	[6302, 6303]	6328	[6983, 7166]
263	[516, 517]	2285	[3934, 3935]	4307	[6304, 2420]	6329	[3919, 7659]
264	[146, 518]	2286	[3230, 3936]	4308	[6278, 5677]	6330	[7363, 1362]
265	[519, 520]	2287	[3937, 3938]	4309	[6305, 5905]	6331	[7354, 7660]
266	[521, 522]	2288	[3939, 3940]	4310	[6306, 5046]	6332	[4907, 3803]
267	[523, 524]	2289	[3941, 3942]	4311	[6307, 2795]	6333	[7661, 4378]
268	[525, 526]	2290	[3943, 3944]	4312	[603, 6308]	6334	[7662, 7663]
269	[527, 528]	2291	[3945, 3946]	4313	[6309, 1900]	6335	[7664, 7572]
270	[529, 530]	2292	[3947, 3922]	4314	[6310, 6167]	6336	[4298, 7665]
271	[531, 532]	2293	[3330, 3254]	4315	[842, 6168]	6337	[3959, 7666]
272	[533, 534]	2294	[3871, 320]	4316	[6311, 6312]	6338	[1615, 7667]
273	[535, 536]	2295	[3948, 3949]	4317	[6313, 6179]	6339	[4724, 4071]
274	[537, 538]	2296	[3950, 3951]	4318	[2491, 6314]	6340	[3894, 6971]
275	[539, 540]	2297	[74, 3952]	4319	[2162, 709]	6341	[7510, 4800]
276	[541, 542]	2298	[1769, 3953]	4320	[2350, 6315]	6342	[4253, 7328]
277	[543, 544]	2299	[3954, 3955]	4321	[6316, 6317]	6343	[7237, 7330]
278	[545, 546]	2300	[3956, 3957]	4322	[5932, 6318]	6344	[1326, 7668]
279	[547, 548]	2301	[3958, 3959]	4323	[6319, 2337]	6345	[7669, 4121]
280	[549, 550]	2302	[3867, 375]	4324	[1839, 6320]	6346	[7670, 7671]

281	[551, 552]	2303	[3960, 3961]	4325	[635, 5207]	6347	[3476, 7591]
282	[520, 553]	2304	[3962, 1050]	4326	[2210, 817]	6348	[1314, 4348]
283	[554, 555]	2305	[3963, 3964]	4327	[6321, 6322]	6349	[7672, 6963]
284	[556, 557]	2306	[3499, 3965]	4328	[5691, 6323]	6350	[3447, 1061]
285	[558, 559]	2307	[3966, 3967]	4329	[2600, 6324]	6351	[6952, 7673]
286	[560, 561]	2308	[3968, 3969]	4330	[6325, 5739]	6352	[1391, 3562]
287	[562, 563]	2309	[3970, 103]	4331	[5519, 6326]	6353	[355, 6981]
288	[564, 565]	2310	[3971, 3972]	4332	[2587, 6327]	6354	[6790, 4052]
289	[566, 139]	2311	[3523, 1087]	4333	[5602, 935]	6355	[4678, 7450]
290	[567, 568]	2312	[3973, 3752]	4334	[5603, 6328]	6356	[3712, 6830]
291	[569, 570]	2313	[3974, 3975]	4335	[854, 5619]	6357	[6842, 7452]
292	[571, 572]	2314	[3976, 3509]	4336	[5331, 5127]	6358	[1634, 4395]
293	[573, 574]	2315	[1684, 3977]	4337	[2528, 6329]	6359	[7674, 7080]
294	[575, 576]	2316	[3978, 3979]	4338	[5810, 6330]	6360	[7345, 4904]
295	[577, 578]	2317	[3980, 3981]	4339	[6275, 6331]	6361	[1522, 7132]
296	[579, 549]	2318	[3982, 3983]	4340	[6332, 6333]	6362	[7624, 7675]
297	[580, 581]	2319	[3984, 3985]	4341	[1960, 6334]	6363	[7327, 7053]
298	[582, 583]	2320	[3986, 1346]	4342	[5949, 2259]	6364	[7676, 4902]
299	[584, 585]	2321	[3987, 3988]	4343	[6335, 2704]	6365	[7411, 7677]
300	[586, 587]	2322	[3989, 3990]	4344	[6336, 6337]	6366	[3756, 969]
301	[588, 589]	2323	[3991, 3992]	4345	[3086, 6274]	6367	[7252, 1229]
302	[590, 591]	2324	[3993, 3994]	4346	[6338, 6339]	6368	[990, 7678]
303	[592, 593]	2325	[3995, 3996]	4347	[6340, 6341]	6369	[7679, 7297]
304	[594, 595]	2326	[3997, 3998]	4348	[790, 2193]	6370	[6968, 7680]
305	[596, 597]	2327	[3999, 4000]	4349	[5988, 5536]	6371	[7681, 7682]
306	[598, 599]	2328	[4001, 4002]	4350	[5828, 889]	6372	[4427, 7683]
307	[600, 601]	2329	[4003, 4004]	4351	[6342, 5679]	6373	[4396, 4497]
308	[602, 603]	2330	[3961, 4005]	4352	[6343, 5681]	6374	[7481, 7329]
309	[604, 605]	2331	[4006, 1770]	4353	[6344, 5996]	6375	[84, 4213]
310	[606, 607]	2332	[4007, 415]	4354	[6345, 2993]	6376	[4862, 7559]
311	[608, 609]	2333	[4008, 4009]	4355	[2214, 2288]	6377	[6915, 3973]
312	[610, 611]	2334	[4010, 4011]	4356	[6346, 502]	6378	[7684, 4408]
313	[612, 613]	2335	[4012, 4013]	4357	[6347, 209]	6379	[6933, 3785]
314	[614, 615]	2336	[3449, 4014]	4358	[6348, 6349]	6380	[7582, 7685]
315	[36, 616]	2337	[4015, 4016]	4359	[3100, 5613]	6381	[7686, 7222]
316	[617, 618]	2338	[1350, 4017]	4360	[3075, 5881]	6382	[7437, 7687]
317	[619, 620]	2339	[4018, 4019]	4361	[2801, 3045]	6383	[7522, 1741]
318	[621, 622]	2340	[4020, 4021]	4362	[6350, 6351]	6384	[7688, 7689]
319	[623, 624]	2341	[4022, 3608]	4363	[6180, 6352]	6385	[4695, 4751]
320	[625, 626]	2342	[4023, 4024]	4364	[1962, 6353]	6386	[7467, 7172]
321	[627, 628]	2343	[4025, 4026]	4365	[5033, 6354]	6387	[3171, 4364]
322	[629, 164]	2344	[4027, 4028]	4366	[788, 1892]	6388	[4763, 4140]
323	[630, 631]	2345	[4029, 4030]	4367	[6172, 6355]	6389	[7316, 7690]
324	[632, 633]	2346	[426, 4031]	4368	[2931, 6356]	6390	[4296, 6990]

325	[634, 635]	2347	[3526, 3705]	4369	[5137, 6357]	6391	[4873, 7183]
326	[248, 636]	2348	[3944, 4032]	4370	[2383, 5786]	6392	[7675, 4727]
327	[637, 237]	2349	[4033, 4034]	4371	[1969, 5930]	6393	[7691, 7184]
328	[638, 639]	2350	[4035, 4036]	4372	[3077, 5714]	6394	[7671, 4108]
329	[640, 641]	2351	[4037, 4038]	4373	[5622, 6358]	6395	[307, 4368]
330	[642, 643]	2352	[4039, 4040]	4374	[5773, 6359]	6396	[7692, 7278]
331	[644, 645]	2353	[4041, 4042]	4375	[6360, 166]	6397	[7667, 3925]
332	[646, 647]	2354	[4043, 4044]	4376	[5197, 5358]	6398	[7620, 4950]
333	[648, 649]	2355	[4045, 4046]	4377	[5440, 3078]	6399	[7062, 7268]
334	[650, 651]	2356	[4047, 4048]	4378	[2038, 5598]	6400	[7311, 4776]
335	[652, 653]	2357	[4049, 3315]	4379	[6361, 6362]	6401	[7619, 6843]
336	[654, 655]	2358	[4050, 4051]	4380	[2736, 6186]	6402	[7565, 7169]
337	[656, 657]	2359	[4052, 4053]	4381	[6287, 5432]	6403	[4796, 7693]
338	[511, 658]	2360	[4054, 4055]	4382	[2596, 1861]	6404	[7694, 4940]
339	[659, 660]	2361	[1281, 4056]	4383	[3108, 6363]	6405	[7659, 4870]
340	[661, 662]	2362	[4057, 4058]	4384	[6152, 2385]	6406	[1516, 7082]
341	[663, 664]	2363	[4059, 4060]	4385	[6014, 6364]	6407	[6846, 7587]
342	[665, 666]	2364	[1283, 4061]	4386	[6365, 59]	6408	[7544, 4410]
343	[667, 668]	2365	[4062, 4063]	4387	[6366, 6346]	6409	[3840, 7613]
344	[669, 596]	2366	[4064, 4065]	4388	[3098, 1798]	6410	[7695, 1191]
345	[670, 671]	2367	[1548, 4066]	4389	[5579, 6367]	6411	[7313, 3536]
346	[672, 673]	2368	[4067, 4068]	4390	[40, 6368]	6412	[7215, 7696]
347	[674, 675]	2369	[4069, 4070]	4391	[6369, 5389]	6413	[1513, 4894]
348	[676, 677]	2370	[4071, 4072]	4392	[2815, 5151]	6414	[1378, 4764]
349	[678, 679]	2371	[4073, 3400]	4393	[6370, 5113]	6415	[4161, 3597]
350	[680, 681]	2372	[4074, 1476]	4394	[2602, 2382]	6416	[7052, 7697]
351	[682, 683]	2373	[4075, 1012]	4395	[6371, 6372]	6417	[4369, 1690]
352	[684, 685]	2374	[4076, 4077]	4396	[6373, 5108]	6418	[7571, 7371]
353	[686, 687]	2375	[4078, 1037]	4397	[6374, 821]	6419	[7698, 4874]
354	[688, 689]	2376	[4079, 3463]	4398	[42, 6375]	6420	[7069, 7185]
355	[690, 691]	2377	[4080, 4081]	4399	[6376, 6099]	6421	[7699, 7700]
356	[692, 693]	2378	[1150, 4082]	4400	[6377, 2908]	6422	[7308, 4781]
357	[694, 695]	2379	[3673, 4083]	4401	[5528, 6378]	6423	[3613, 7560]
358	[696, 697]	2380	[4084, 4085]	4402	[6379, 2541]	6424	[7701, 7702]
359	[698, 699]	2381	[994, 4086]	4403	[2938, 6380]	6425	[7022, 7149]
360	[700, 701]	2382	[4087, 3882]	4404	[6381, 6382]	6426	[7370, 1364]
361	[702, 703]	2383	[1507, 4088]	4405	[5690, 6383]	6427	[3639, 1231]
362	[704, 705]	2384	[1093, 4089]	4406	[6384, 2520]	6428	[1443, 4463]
363	[706, 652]	2385	[4090, 4091]	4407	[6385, 2810]	6429	[7568, 1397]
364	[707, 708]	2386	[4092, 1357]	4408	[5166, 6386]	6430	[3693, 7585]
365	[709, 710]	2387	[4093, 3855]	4409	[6277, 2406]	6431	[4661, 1725]
366	[711, 712]	2388	[4094, 1294]	4410	[6387, 2576]	6432	[7238, 4806]
367	[713, 714]	2389	[4095, 987]	4411	[6388, 6389]	6433	[4317, 7703]
368	[715, 716]	2390	[4096, 3974]	4412	[572, 2886]	6434	[7138, 1361]

369	[717, 718]	2391	[4097, 4098]	4413	[6390, 5699]	6435	[4875, 6851]
370	[719, 720]	2392	[4077, 1039]	4414	[6322, 6279]	6436	[4426, 4932]
371	[721, 722]	2393	[4099, 322]	4415	[6391, 5229]	6437	[6876, 4158]
372	[723, 724]	2394	[4100, 79]	4416	[5569, 6192]	6438	[7202, 4845]
373	[725, 726]	2395	[4088, 4101]	4417	[6187, 6392]	6439	[7704, 4791]
374	[727, 728]	2396	[4102, 4103]	4418	[2113, 6393]	6440	[7705, 1256]
375	[729, 730]	2397	[4104, 4105]	4419	[6394, 6395]	6441	[7706, 7275]
376	[731, 732]	2398	[4106, 4107]	4420	[6396, 5490]	6442	[7179, 4185]
377	[733, 734]	2399	[4108, 3943]	4421	[6339, 6397]	6443	[1007, 7670]
378	[735, 736]	2400	[4109, 3945]	4422	[6341, 5235]	6444	[7567, 1317]
379	[737, 738]	2401	[3237, 4110]	4423	[2996, 5466]	6445	[1154, 4539]
380	[160, 739]	2402	[3985, 4111]	4424	[6398, 3092]	6446	[7108, 3958]
381	[740, 741]	2403	[4112, 4113]	4425	[6399, 6400]	6447	[7492, 4991]
382	[742, 743]	2404	[4114, 460]	4426	[679, 5689]	6448	[4816, 7405]
383	[744, 745]	2405	[269, 4115]	4427	[5549, 6401]	6449	[7707, 4288]
384	[746, 747]	2406	[4116, 4117]	4428	[2535, 2475]	6450	[7228, 4330]
385	[748, 749]	2407	[4118, 4119]	4429	[6402, 6286]	6451	[7690, 4948]
386	[750, 751]	2408	[4120, 1599]	4430	[3110, 5721]	6452	[7504, 1209]
387	[752, 753]	2409	[4121, 117]	4431	[6403, 2623]	6453	[7708, 6870]
388	[754, 755]	2410	[3417, 4122]	4432	[6404, 2675]	6454	[1441, 1647]
389	[756, 757]	2411	[3469, 1296]	4433	[6129, 2329]	6455	[4911, 7709]
390	[758, 759]	2412	[3381, 4123]	4434	[6405, 6406]	6456	[3777, 4998]
391	[150, 760]	2413	[4124, 4125]	4435	[6203, 6407]	6457	[7710, 7711]
392	[761, 762]	2414	[4126, 4127]	4436	[6408, 5488]	6458	[7682, 7712]
393	[763, 764]	2415	[4128, 4129]	4437	[2216, 6409]	6459	[4403, 4548]
394	[765, 766]	2416	[4130, 4131]	4438	[6410, 621]	6460	[7463, 7713]
395	[767, 768]	2417	[3885, 4132]	4439	[6411, 6412]	6461	[4941, 3709]
396	[769, 770]	2418	[4133, 4134]	4440	[6268, 6413]	6462	[7714, 7715]
397	[771, 772]	2419	[4135, 3888]	4441	[6050, 6414]	6463	[3921, 4322]
398	[773, 774]	2420	[4136, 4137]	4442	[6415, 6416]	6464	[7104, 1752]
399	[775, 776]	2421	[4138, 1169]	4443	[6239, 6417]	6465	[3495, 7566]
400	[777, 778]	2422	[4139, 1188]	4444	[2952, 669]	6466	[7716, 3264]
401	[779, 780]	2423	[4140, 3875]	4445	[5648, 5339]	6467	[1076, 4600]
402	[781, 782]	2424	[3926, 4141]	4446	[6418, 6419]	6468	[4113, 1525]
403	[783, 784]	2425	[4142, 3586]	4447	[6420, 6421]	6469	[7496, 7323]
404	[785, 786]	2426	[3835, 4143]	4448	[6422, 6423]	6470	[7556, 3707]
405	[787, 788]	2427	[3836, 4144]	4449	[6229, 5459]	6471	[7145, 77]
406	[789, 790]	2428	[3281, 1482]	4450	[6424, 6124]	6472	[3287, 7416]
407	[791, 792]	2429	[4145, 4146]	4451	[5694, 6425]	6473	[400, 99]
408	[793, 794]	2430	[4147, 4148]	4452	[6426, 6366]	6474	[4270, 1449]
409	[795, 796]	2431	[4149, 4150]	4453	[5805, 6427]	6475	[7488, 7695]
410	[797, 798]	2432	[412, 4151]	4454	[759, 6428]	6476	[6809, 3584]
411	[799, 800]	2433	[4152, 4153]	4455	[6429, 6430]	6477	[3550, 7635]
412	[801, 802]	2434	[4154, 3372]	4456	[6409, 6431]	6478	[1013, 1260]

413	[803, 804]	2435	[457, 4155]	4457	[6432, 5476]	6479	[7107, 3746]
414	[805, 806]	2436	[4156, 4157]	4458	[5329, 6433]	6480	[3992, 967]
415	[807, 808]	2437	[4158, 1252]	4459	[6434, 5745]	6481	[3268, 7325]
416	[809, 810]	2438	[4159, 4160]	4460	[1823, 5946]	6482	[7717, 7718]
417	[811, 812]	2439	[6, 4161]	4461	[6318, 5897]	6483	[3213, 3595]
418	[813, 814]	2440	[4162, 4163]	4462	[6435, 5194]	6484	[4257, 7719]
419	[815, 816]	2441	[4164, 3374]	4463	[2627, 6436]	6485	[7629, 7720]
420	[817, 818]	2442	[4165, 1755]	4464	[6437, 6438]	6486	[7721, 1042]
421	[819, 820]	2443	[4166, 3766]	4465	[6439, 5804]	6487	[341, 3229]
422	[821, 822]	2444	[4167, 4168]	4466	[2746, 5718]	6488	[1404, 7158]
423	[823, 824]	2445	[3439, 4169]	4467	[5087, 5697]	6489	[3850, 7721]
424	[825, 826]	2446	[4170, 4171]	4468	[6440, 2706]	6490	[7722, 4962]
425	[827, 828]	2447	[4172, 4173]	4469	[3104, 6029]	6491	[4811, 7723]
426	[829, 830]	2448	[4053, 3934]	4470	[6441, 6442]	6492	[7724, 7113]
427	[831, 832]	2449	[3731, 4174]	4471	[5037, 5656]	6493	[4684, 7664]
428	[833, 834]	2450	[4175, 1298]	4472	[792, 6443]	6494	[1264, 4913]
429	[835, 836]	2451	[4176, 4177]	4473	[5271, 5182]	6495	[1419, 7577]
430	[837, 838]	2452	[4178, 4179]	4474	[2052, 6444]	6496	[1352, 3849]
431	[839, 840]	2453	[4180, 1648]	4475	[6291, 6139]	6497	[7561, 7428]
432	[841, 842]	2454	[4181, 4182]	4476	[5644, 2518]	6498	[3351, 7725]
433	[843, 844]	2455	[4183, 4184]	4477	[2524, 623]	6499	[4107, 7478]
434	[845, 846]	2456	[4185, 4186]	4478	[6445, 6446]	6500	[4246, 7476]
435	[847, 848]	2457	[4187, 4188]	4479	[5818, 6447]	6501	[1043, 5004]
436	[849, 850]	2458	[4189, 3358]	4480	[2655, 5053]	6502	[3419, 7485]
437	[851, 852]	2459	[4190, 4191]	4481	[214, 6448]	6503	[7726, 7346]
438	[853, 854]	2460	[4192, 4193]	4482	[2752, 6396]	6504	[430, 4292]
439	[855, 856]	2461	[3318, 3333]	4483	[6449, 2111]	6505	[7146, 7386]
440	[757, 857]	2462	[4194, 4195]	4484	[5545, 6450]	6506	[4767, 4424]
441	[858, 859]	2463	[3872, 4196]	4485	[5538, 6064]	6507	[4714, 4244]
442	[860, 861]	2464	[4197, 4198]	4486	[6451, 2764]	6508	[4068, 4231]
443	[862, 863]	2465	[4199, 4200]	4487	[6395, 2399]	6509	[3834, 7727]
444	[864, 865]	2466	[4048, 1405]	4488	[5436, 2601]	6510	[466, 3201]
445	[866, 867]	2467	[4201, 3933]	4489	[5116, 5442]	6511	[3266, 4707]
446	[868, 869]	2468	[4202, 3857]	4490	[2598, 2572]	6512	[7728, 4404]
447	[870, 871]	2469	[3167, 4203]	4491	[6452, 5117]	6513	[7638, 4715]
448	[872, 873]	2470	[4204, 3831]	4492	[6252, 630]	6514	[1754, 3960]
449	[874, 875]	2471	[4205, 429]	4493	[6453, 5115]	6515	[7689, 7369]
450	[876, 877]	2472	[4206, 4207]	4494	[6454, 870]	6516	[4938, 1572]
451	[878, 827]	2473	[4208, 4209]	4495	[46, 6455]	6517	[1686, 4212]
452	[879, 880]	2474	[4210, 4211]	4496	[6456, 6457]	6518	[4547, 7005]
453	[881, 882]	2475	[4212, 1132]	4497	[6372, 6458]	6519	[7008, 7573]
454	[883, 884]	2476	[4213, 4214]	4498	[664, 6459]	6520	[7439, 7729]
455	[885, 886]	2477	[4215, 4216]	4499	[222, 2076]	6521	[3812, 4632]
456	[887, 888]	2478	[4217, 3166]	4500	[6460, 6030]	6522	[7677, 1310]

457	[889, 890]	2479	[4218, 3532]	4501	[6433, 2431]	6523	[1750, 1201]
458	[891, 892]	2480	[468, 3604]	4502	[6231, 5240]	6524	[7602, 4901]
459	[893, 894]	2481	[1656, 4219]	4503	[6461, 5126]	6525	[6999, 7246]
460	[895, 896]	2482	[4220, 4221]	4504	[1858, 2105]	6526	[7590, 277]
461	[897, 898]	2483	[4222, 4223]	4505	[6462, 2812]	6527	[4721, 1366]
462	[639, 899]	2484	[4224, 4225]	4506	[6463, 2508]	6528	[7730, 7507]
463	[900, 901]	2485	[4226, 4227]	4507	[5608, 2930]	6529	[4738, 7118]
464	[902, 577]	2486	[1032, 4228]	4508	[5571, 5021]	6530	[4759, 3365]
465	[903, 904]	2487	[4229, 4230]	4509	[2705, 6464]	6531	[3838, 7004]
466	[905, 906]	2488	[4231, 4232]	4510	[1992, 6465]	6532	[4784, 4573]
467	[907, 908]	2489	[4233, 4234]	4511	[2986, 6466]	6533	[1141, 3695]
468	[875, 893]	2490	[3393, 4235]	4512	[12, 5758]	6534	[7200, 7007]
469	[909, 910]	2491	[4236, 4237]	4513	[6467, 5520]	6535	[4659, 7731]
470	[911, 912]	2492	[1623, 4238]	4514	[6446, 6468]	6536	[7079, 3956]
471	[913, 914]	2493	[4239, 4240]	4515	[6427, 6469]	6537	[7702, 7360]
472	[915, 916]	2494	[1575, 4241]	4516	[2175, 3082]	6538	[7234, 3347]
473	[743, 917]	2495	[4242, 312]	4517	[2401, 6453]	6539	[7472, 7732]
474	[918, 919]	2496	[4243, 3776]	4518	[6470, 6471]	6540	[4420, 4487]
475	[920, 921]	2497	[4244, 4245]	4519	[6330, 6472]	6541	[7527, 7733]
476	[522, 922]	2498	[4065, 4246]	4520	[6250, 1956]	6542	[6773, 7304]
477	[923, 924]	2499	[4247, 1535]	4521	[6473, 5345]	6543	[7599, 1217]
478	[925, 926]	2500	[4248, 1390]	4522	[6474, 761]	6544	[7314, 7175]
479	[927, 928]	2501	[4249, 3621]	4523	[6475, 3074]	6545	[7540, 7085]
480	[929, 930]	2502	[4250, 4251]	4524	[892, 6276]	6546	[7734, 3916]
481	[931, 932]	2503	[3656, 4252]	4525	[5252, 2521]	6547	[1663, 7557]
482	[933, 934]	2504	[4021, 4253]	4526	[1800, 6476]	6548	[7735, 7173]
483	[935, 936]	2505	[4254, 4255]	4527	[1980, 6347]	6549	[7736, 7704]
484	[710, 937]	2506	[4256, 4257]	4528	[6477, 6478]	6550	[4356, 4517]
485	[938, 939]	2507	[4258, 3664]	4529	[6479, 6480]	6551	[4131, 4474]
486	[940, 941]	2508	[4072, 4259]	4530	[2805, 6481]	6552	[6771, 7469]
487	[942, 225]	2509	[3348, 3465]	4531	[576, 6281]	6553	[1731, 3757]
488	[943, 944]	2510	[3157, 3927]	4532	[6482, 1948]	6554	[488, 4995]
489	[753, 945]	2511	[4260, 4261]	4533	[6483, 6484]	6555	[7375, 7583]
490	[946, 947]	2512	[1345, 4262]	4534	[5543, 2534]	6556	[4456, 1410]
491	[948, 519]	2513	[4263, 4264]	4535	[6155, 2120]	6557	[6959, 7592]
492	[949, 950]	2514	[4265, 4266]	4536	[2457, 6485]	6558	[7044, 7342]
493	[951, 952]	2515	[4179, 1138]	4537	[5482, 2500]	6559	[4822, 1269]
494	[953, 954]	2516	[4267, 4268]	4538	[6486, 539]	6560	[3914, 4616]
495	[955, 956]	2517	[4269, 4270]	4539	[6487, 6387]	6561	[7220, 7391]
496	[957, 958]	2518	[4271, 4272]	4540	[6488, 6489]	6562	[4833, 3352]
497	[959, 960]	2519	[4273, 1664]	4541	[6254, 756]	6563	[3404, 7404]
498	[961, 962]	2520	[4274, 4180]	4542	[6067, 5514]	6564	[7711, 3997]
499	[963, 964]	2521	[4275, 3183]	4543	[6490, 6491]	6565	[4193, 3970]
500	[965, 966]	2522	[4276, 4277]	4544	[6492, 5550]	6566	[3645, 3823]

501	[967, 968]	2523	[3513, 4278]	4545	[2944, 1908]	6567	[3700, 7250]
502	[969, 970]	2524	[4279, 4280]	4546	[5637, 600]	6568	[1627, 427]
503	[971, 972]	2525	[4281, 4282]	4547	[6018, 5961]	6569	[7373, 7065]
504	[973, 974]	2526	[4283, 4284]	4548	[6493, 6494]	6570	[7658, 7402]
505	[975, 976]	2527	[1212, 4285]	4549	[6380, 2161]	6571	[7505, 7737]
506	[977, 978]	2528	[4286, 4287]	4550	[5317, 6211]	6572	[3967, 7738]
507	[979, 980]	2529	[4288, 4289]	4551	[6485, 6495]	6573	[3596, 7477]
508	[981, 982]	2530	[4290, 4291]	4552	[6496, 6497]	6574	[4492, 3235]
509	[983, 984]	2531	[4292, 4293]	4553	[1901, 6498]	6575	[6995, 3335]
510	[985, 986]	2532	[4294, 4229]	4554	[5201, 5640]	6576	[4740, 7739]
511	[987, 988]	2533	[4295, 3555]	4555	[6499, 6500]	6577	[4636, 1329]
512	[989, 990]	2534	[4221, 4296]	4556	[6501, 3146]	6578	[4169, 4242]
513	[991, 992]	2535	[4297, 4298]	4557	[2649, 2745]	6579	[68, 3895]
514	[993, 994]	2536	[4299, 4300]	4558	[1941, 6502]	6580	[4359, 3741]
515	[995, 996]	2537	[4301, 4302]	4559	[2332, 6503]	6581	[1340, 7726]
516	[997, 998]	2538	[4303, 4304]	4560	[6314, 5768]	6582	[7720, 4156]
517	[999, 1000]	2539	[4305, 4306]	4561	[6447, 2402]	6583	[7511, 7654]
518	[1001, 1002]	2540	[4307, 4308]	4562	[6484, 2058]	6584	[7526, 1504]
519	[1003, 1004]	2541	[4309, 4310]	4563	[5103, 6504]	6585	[7740, 6928]
520	[1005, 297]	2542	[1544, 4311]	4564	[2177, 6505]	6586	[4372, 7646]
521	[1006, 1007]	2543	[4312, 1129]	4565	[782, 6496]	6587	[7541, 7741]
522	[1008, 1009]	2544	[4313, 4208]	4566	[6506, 6507]	6588	[7403, 272]
523	[1010, 1011]	2545	[4314, 4315]	4567	[5355, 3018]	6589	[4986, 7742]
524	[1012, 1013]	2546	[4316, 4317]	4568	[6508, 6479]	6590	[4216, 7054]
525	[1014, 1015]	2547	[4318, 4319]	4569	[2638, 5148]	6591	[1022, 4910]
526	[1016, 1017]	2548	[4320, 4276]	4570	[5019, 6437]	6592	[4086, 7669]
527	[1018, 383]	2549	[4321, 115]	4571	[6509, 6007]	6593	[6815, 4511]
528	[1019, 1020]	2550	[4322, 4323]	4572	[6510, 6511]	6594	[7299, 7243]
529	[1021, 1022]	2551	[4324, 4325]	4573	[6502, 6512]	6595	[4884, 1300]
530	[1023, 1024]	2552	[4326, 4327]	4574	[6513, 6161]	6596	[7743, 4644]
531	[1025, 1026]	2553	[4328, 4329]	4575	[2199, 6195]	6597	[7673, 121]
532	[1027, 1028]	2554	[4330, 1085]	4576	[6514, 5880]	6598	[98, 7344]
533	[1029, 1030]	2555	[4331, 4332]	4577	[1856, 6515]	6599	[108, 7616]
534	[1031, 1032]	2556	[4333, 4334]	4578	[6516, 6517]	6600	[3637, 7611]
535	[1033, 1034]	2557	[4150, 4335]	4579	[2729, 6518]	6601	[7651, 7581]
536	[1035, 1036]	2558	[3395, 4336]	4580	[6114, 2140]	6602	[7631, 1379]
537	[1037, 1038]	2559	[3674, 4337]	4581	[5542, 5906]	6603	[326, 7384]
538	[1039, 1040]	2560	[4338, 4162]	4582	[5540, 2393]	6604	[7744, 371]
539	[1041, 1027]	2561	[4339, 4340]	4583	[5280, 6519]	6605	[4855, 7458]
540	[1042, 1043]	2562	[1066, 4341]	4584	[6520, 6304]	6606	[4709, 7734]
541	[1044, 1045]	2563	[4342, 3371]	4585	[5278, 6521]	6607	[7731, 4025]
542	[1046, 1047]	2564	[4343, 4344]	4586	[5775, 5871]	6608	[4028, 6827]
543	[1048, 485]	2565	[1733, 4345]	4587	[647, 2900]	6609	[7680, 7745]
544	[1049, 293]	2566	[4346, 4347]	4588	[6522, 6117]	6610	[1621, 433]

545	[1050, 441]	2567	[4348, 1692]	4589	[5050, 6523]	6611	[7608, 4455]
546	[1051, 1052]	2568	[4349, 1384]	4590	[6315, 5552]	6612	[6778, 7532]
547	[1053, 1054]	2569	[3600, 4350]	4591	[6178, 6524]	6613	[7570, 7698]
548	[1055, 1056]	2570	[4351, 4352]	4592	[6525, 913]	6614	[7095, 7038]
549	[1057, 1058]	2571	[4353, 4354]	4593	[934, 6526]	6615	[4960, 1622]
550	[1059, 1060]	2572	[4355, 4356]	4594	[6527, 5614]	6616	[7487, 3242]
551	[1061, 1062]	2573	[4357, 4358]	4595	[5663, 6137]	6617	[7226, 4370]
552	[1063, 1018]	2574	[28, 4359]	4596	[6528, 5241]	6618	[4729, 7409]
553	[1004, 1064]	2575	[4360, 4361]	4597	[6529, 6242]	6619	[7093, 7442]
554	[1065, 1066]	2576	[4362, 4363]	4598	[6148, 6530]	6620	[7451, 7645]
555	[1067, 1068]	2577	[4364, 4365]	4599	[6531, 6532]	6621	[3389, 7580]
556	[1069, 1070]	2578	[4366, 4367]	4600	[2519, 6533]	6622	[6803, 7301]
557	[1071, 1072]	2579	[4368, 4369]	4601	[2010, 5852]	6623	[7719, 469]
558	[1073, 1074]	2580	[3460, 71]	4602	[6481, 5765]	6624	[464, 4159]
559	[1075, 1076]	2581	[4370, 3770]	4603	[5920, 5027]	6625	[4826, 7334]
560	[1077, 1078]	2582	[1054, 4371]	4604	[184, 2272]	6626	[4529, 7545]
561	[1079, 1080]	2583	[1536, 4372]	4605	[6534, 6156]	6627	[82, 19]
562	[1081, 1082]	2584	[4373, 1333]	4606	[6535, 6234]	6628	[3665, 7390]
563	[1083, 1084]	2585	[4374, 3884]	4607	[5365, 6536]	6629	[3607, 7630]
564	[1085, 1086]	2586	[4375, 3414]	4608	[6537, 6538]	6630	[3883, 87]
565	[1087, 1088]	2587	[4376, 1185]	4609	[6539, 6371]	6631	[7733, 7010]
566	[378, 1089]	2588	[3598, 4041]	4610	[6540, 793]	6632	[1700, 1306]
567	[1090, 1091]	2589	[1724, 4172]	4611	[5727, 5249]	6633	[7596, 4190]
568	[1092, 1093]	2590	[455, 4377]	4612	[6541, 6147]	6634	[3760, 7710]
569	[1094, 1095]	2591	[4378, 4379]	4613	[689, 6542]	6635	[3338, 3433]
570	[1096, 1097]	2592	[4380, 4381]	4614	[838, 6543]	6636	[7746, 7447]
571	[1098, 1099]	2593	[4382, 4383]	4615	[6544, 6520]	6637	[4949, 4735]
572	[1100, 1101]	2594	[4384, 4385]	4616	[2384, 6081]	6638	[4383, 6944]
573	[1102, 1103]	2595	[3810, 4386]	4617	[5195, 3012]	6639	[4434, 7735]
574	[1104, 97]	2596	[1058, 3699]	4618	[6500, 2836]	6640	[1117, 7701]
575	[1105, 1106]	2597	[4387, 4355]	4619	[2577, 5975]	6641	[7514, 7574]
576	[1107, 1108]	2598	[4388, 4192]	4620	[751, 5479]	6642	[7029, 4079]
577	[1109, 1110]	2599	[4389, 4390]	4621	[6545, 6546]	6643	[1162, 4102]
578	[1111, 1112]	2600	[3853, 1161]	4622	[5205, 6547]	6644	[4920, 7747]
579	[1113, 1059]	2601	[4391, 3764]	4623	[5755, 634]	6645	[1246, 7688]
580	[1114, 1115]	2602	[3603, 4392]	4624	[6548, 6302]	6646	[7415, 6966]
581	[1116, 1117]	2603	[4393, 4394]	4625	[6524, 6549]	6647	[4643, 3907]
582	[1015, 1118]	2604	[4395, 4396]	4626	[6550, 3057]	6648	[434, 3676]
583	[1119, 1120]	2605	[4397, 4398]	4627	[517, 883]	6649	[7601, 4274]
584	[1121, 1122]	2606	[4377, 1463]	4628	[6551, 2667]	6650	[7748, 4003]
585	[1123, 1124]	2607	[4399, 4067]	4629	[2959, 6552]	6651	[1540, 4479]
586	[1125, 1126]	2608	[1358, 4400]	4630	[2845, 6553]	6652	[4337, 4331]
587	[1127, 1128]	2609	[4401, 4402]	4631	[2032, 868]	6653	[3638, 4674]
588	[1129, 1130]	2610	[1530, 4403]	4632	[5566, 1793]	6654	[3250, 3703]

589	[1131, 425]	2611	[4404, 4405]	4633	[6554, 5455]	6655	[4871, 7706]
590	[1132, 1133]	2612	[4406, 4407]	4634	[2933, 5334]	6656	[1322, 7640]
591	[1134, 1135]	2613	[4408, 3340]	4635	[6555, 6556]	6657	[4872, 481]
592	[1136, 1137]	2614	[4277, 4409]	4636	[5826, 6094]	6658	[7749, 989]
593	[1138, 1139]	2615	[4410, 4411]	4637	[6557, 692]	6659	[6823, 4504]
594	[1140, 1141]	2616	[4412, 1640]	4638	[5832, 5931]	6660	[7750, 7483]
595	[1142, 1143]	2617	[4413, 4414]	4639	[6558, 6384]	6661	[7751, 7752]
596	[1144, 1145]	2618	[4415, 1593]	4640	[6466, 1997]	6662	[1532, 3386]
597	[1146, 1003]	2619	[328, 119]	4641	[5834, 5767]	6663	[7753, 7506]
598	[1147, 1148]	2620	[3275, 4416]	4642	[6559, 6560]	6664	[1230, 7136]
599	[1149, 1150]	2621	[4417, 4418]	4643	[5716, 5731]	6665	[3548, 7754]
600	[1151, 1152]	2622	[4419, 4420]	4644	[6561, 6248]	6666	[7099, 3354]
601	[489, 437]	2623	[4421, 4422]	4645	[2348, 5790]	6667	[4209, 7642]
602	[1153, 1154]	2624	[4011, 4423]	4646	[5374, 5850]	6668	[3445, 354]
603	[1155, 1156]	2625	[4424, 1739]	4647	[6562, 2968]	6669	[4168, 7106]
604	[1157, 1158]	2626	[4425, 4426]	4648	[5063, 535]	6670	[1060, 4527]
605	[1159, 1160]	2627	[1546, 4427]	4649	[6563, 6022]	6671	[3452, 7656]
606	[1161, 1162]	2628	[4428, 4429]	4650	[2690, 5979]	6672	[7668, 7426]
607	[1163, 1164]	2629	[4430, 4087]	4651	[6564, 6565]	6673	[4526, 4250]
608	[1165, 1166]	2630	[4431, 4432]	4652	[1884, 6566]	6674	[7355, 4977]
609	[1167, 1168]	2631	[4433, 4434]	4653	[2870, 6567]	6675	[4400, 3713]
610	[1169, 1170]	2632	[4435, 1722]	4654	[2841, 6568]	6676	[4509, 4273]
611	[1171, 1172]	2633	[4436, 3525]	4655	[5757, 6569]	6677	[7071, 3681]
612	[1173, 1174]	2634	[3915, 4437]	4656	[5636, 3151]	6678	[7732, 6919]
613	[1175, 1176]	2635	[4438, 1744]	4657	[6570, 221]	6679	[4807, 7094]
614	[1177, 1178]	2636	[4439, 3380]	4658	[2568, 1983]	6680	[7502, 1349]
615	[1179, 1180]	2637	[4440, 4441]	4659	[6571, 6490]	6681	[6967, 7755]
616	[1181, 1182]	2638	[4442, 4443]	4660	[6357, 5629]	6682	[1538, 3288]
617	[1183, 1184]	2639	[4444, 1642]	4661	[6568, 795]	6683	[438, 7256]
618	[1185, 95]	2640	[4445, 4446]	4662	[6572, 5427]	6684	[6902, 4481]
619	[1186, 1187]	2641	[4447, 4448]	4663	[6573, 2588]	6685	[1481, 4650]
620	[1188, 1189]	2642	[4449, 4450]	4664	[6512, 5947]	6686	[4915, 7068]
621	[112, 1190]	2643	[4143, 4057]	4665	[6574, 1825]	6687	[4880, 1486]
622	[1191, 1192]	2644	[1781, 3161]	4666	[6575, 3053]	6688	[7101, 6955]
623	[1193, 1194]	2645	[90, 4451]	4667	[6576, 6577]	6689	[3308, 7547]
624	[1195, 1196]	2646	[3388, 1673]	4668	[5963, 5315]	6690	[7552, 7340]
625	[1197, 1198]	2647	[4452, 1685]	4669	[5879, 6540]	6691	[3609, 7756]
626	[1199, 1200]	2648	[3940, 3356]	4670	[2807, 2818]	6692	[7678, 3890]
627	[1201, 1202]	2649	[3165, 4453]	4671	[5925, 6578]	6693	[7723, 4263]
628	[1203, 1204]	2650	[4454, 4316]	4672	[2386, 5799]	6694	[4323, 3575]
629	[124, 325]	2651	[1636, 327]	4673	[6272, 6306]	6695	[4524, 7387]
630	[1205, 1206]	2652	[4455, 4456]	4674	[5495, 6226]	6696	[4125, 445]
631	[1207, 1208]	2653	[1365, 3796]	4675	[6056, 5509]	6697	[4622, 3472]
632	[1209, 1210]	2654	[370, 1693]	4676	[6579, 6439]	6698	[1715, 7347]

633	[1211, 1212]	2655	[300, 4457]	4677	[6580, 6205]	6699	[7757, 7716]
634	[1213, 1214]	2656	[4458, 4459]	4678	[6581, 5133]	6700	[3239, 6992]
635	[1215, 1144]	2657	[3897, 4460]	4679	[5876, 6376]	6701	[1374, 6988]
636	[486, 1216]	2658	[4461, 4462]	4680	[6582, 6440]	6702	[7575, 7519]
637	[449, 467]	2659	[4463, 3195]	4681	[5893, 5247]	6703	[3261, 3763]
638	[1217, 1218]	2660	[4464, 4465]	4682	[5789, 6583]	6704	[7758, 1502]
639	[1219, 1220]	2661	[3516, 4466]	4683	[6041, 2215]	6705	[1137, 1221]
640	[1221, 1222]	2662	[3273, 4382]	4684	[6043, 6584]	6706	[7665, 7714]
641	[1223, 1224]	2663	[4467, 4468]	4685	[6538, 5741]	6707	[4978, 7759]
642	[1225, 1226]	2664	[4469, 4470]	4686	[5981, 6585]	6708	[3628, 4846]
643	[1227, 1228]	2665	[4471, 4472]	4687	[6034, 6374]	6709	[4670, 3303]
644	[1229, 1230]	2666	[1234, 4104]	4688	[2800, 6586]	6710	[7041, 3164]
645	[1231, 1232]	2667	[3355, 4473]	4689	[5971, 2470]	6711	[6806, 7579]
646	[1082, 1041]	2668	[4474, 3290]	4690	[6587, 5674]	6712	[7621, 3670]
647	[1233, 1234]	2669	[4475, 4120]	4691	[6588, 6589]	6713	[324, 7717]
648	[1235, 1236]	2670	[4476, 64]	4692	[2536, 6501]	6714	[7760, 4774]
649	[1237, 1238]	2671	[4477, 1262]	4693	[2478, 6590]	6715	[4146, 6930]
650	[1239, 1240]	2672	[4478, 3968]	4694	[6591, 6592]	6716	[4038, 7554]
651	[1241, 1242]	2673	[4479, 3697]	4695	[3112, 5224]	6717	[4040, 7494]
652	[1243, 1244]	2674	[4480, 3187]	4696	[6593, 6336]	6718	[4381, 4170]
653	[1245, 1246]	2675	[4481, 1424]	4697	[6594, 5568]	6719	[418, 7356]
654	[1247, 1248]	2676	[3781, 3878]	4698	[5297, 781]	6720	[7696, 6817]
655	[1249, 1250]	2677	[4482, 4419]	4699	[165, 3103]	6721	[976, 7284]
656	[392, 1251]	2678	[1160, 331]	4700	[2082, 6595]	6722	[7277, 7167]
657	[1252, 1253]	2679	[4483, 4484]	4701	[6596, 6597]	6723	[3493, 7623]
658	[1254, 1255]	2680	[4485, 4008]	4702	[5819, 6288]	6724	[7663, 3559]
659	[1256, 1257]	2681	[4056, 4486]	4703	[6598, 5493]	6725	[6929, 7644]
660	[1258, 1259]	2682	[4487, 4488]	4704	[6140, 151]	6726	[7219, 7699]
661	[1260, 1261]	2683	[4489, 3486]	4705	[6599, 6600]	6727	[3679, 7350]
662	[1262, 1263]	2684	[4490, 452]	4706	[6601, 6602]	6728	[3928, 4433]
663	[376, 1264]	2685	[4491, 4492]	4707	[3034, 6603]	6729	[7285, 3402]
664	[1265, 1266]	2686	[4493, 3233]	4708	[6289, 6604]	6730	[1643, 1727]
665	[1267, 1268]	2687	[4494, 4495]	4709	[3006, 6605]	6731	[7755, 6921]
666	[1269, 1270]	2688	[4496, 3811]	4710	[6606, 6260]	6732	[7709, 7761]
667	[1271, 1272]	2689	[4497, 4498]	4711	[611, 6130]	6733	[3828, 7622]
668	[1273, 1274]	2690	[4499, 4500]	4712	[6607, 5517]	6734	[3341, 4877]
669	[1275, 1146]	2691	[4459, 4501]	4713	[1895, 6608]	6735	[484, 431]
670	[1276, 1277]	2692	[491, 4001]	4714	[2899, 6510]	6736	[3297, 1432]
671	[1278, 1279]	2693	[4502, 1706]	4715	[6609, 5913]	6737	[7283, 4301]
672	[1280, 1281]	2694	[3797, 4503]	4716	[2829, 504]	6738	[3473, 7762]
673	[1282, 1283]	2695	[4504, 3382]	4717	[6610, 2492]	6739	[106, 7164]
674	[1284, 1285]	2696	[4505, 4506]	4718	[6611, 571]	6740	[3202, 7763]
675	[1286, 1287]	2697	[4507, 3286]	4719	[140, 2860]	6741	[1707, 3815]
676	[1288, 1289]	2698	[4508, 4454]	4720	[2713, 3130]	6742	[7535, 4823]

677	[1290, 1291]	2699	[3373, 4509]	4721	[5965, 6612]	6743	[7441, 4933]
678	[1292, 1293]	2700	[4341, 4510]	4722	[2261, 6053]	6744	[4909, 4730]
679	[1294, 1295]	2701	[4511, 4512]	4723	[5014, 1795]	6745	[7516, 7764]
680	[1296, 1297]	2702	[4513, 4514]	4724	[507, 6105]	6746	[4559, 7662]
681	[1298, 1299]	2703	[4515, 4516]	4725	[6613, 6418]	6747	[7765, 4142]
682	[1300, 1301]	2704	[4517, 3898]	4726	[2371, 1927]	6748	[3723, 4963]
683	[1302, 1303]	2705	[4518, 4519]	4727	[6614, 5051]	6749	[3765, 7564]
684	[1304, 1305]	2706	[1034, 4520]	4728	[5678, 6615]	6750	[1736, 4189]
685	[1306, 1307]	2707	[4521, 4522]	4729	[1891, 2335]	6751	[7265, 7766]
686	[1308, 1309]	2708	[4523, 4524]	4730	[6616, 1829]	6752	[280, 6791]
687	[1310, 1311]	2709	[4525, 350]	4731	[5124, 5085]	6753	[4347, 4421]
688	[1312, 1313]	2710	[1088, 3954]	4732	[714, 5570]	6754	[7727, 7748]
689	[406, 1314]	2711	[3485, 4526]	4733	[190, 6266]	6755	[7715, 1048]
690	[1315, 1316]	2712	[4527, 4528]	4734	[6617, 2144]	6756	[3407, 7612]
691	[1317, 1318]	2713	[1617, 4529]	4735	[6193, 6394]	6757	[7738, 7594]
692	[1319, 1320]	2714	[3771, 3859]	4736	[3145, 6618]	6758	[1764, 1284]
693	[1321, 1322]	2715	[4405, 4530]	4737	[6619, 5866]	6759	[7524, 4210]
694	[1323, 1324]	2716	[3657, 4531]	4738	[6044, 6620]	6760	[1464, 7422]
695	[1325, 1326]	2717	[4532, 4533]	4739	[6621, 6474]	6761	[4160, 4425]
696	[1327, 1328]	2718	[4534, 1386]	4740	[6622, 5611]	6762	[4712, 3549]
697	[1329, 1330]	2719	[4535, 4536]	4741	[6416, 6623]	6763	[22, 7141]
698	[1331, 1332]	2720	[3182, 4537]	4742	[2459, 6572]	6764	[1232, 7722]
699	[1333, 352]	2721	[4538, 274]	4743	[6624, 6625]	6765	[1495, 4646]
700	[1334, 1335]	2722	[4111, 1635]	4744	[3149, 6626]	6766	[7764, 7528]
701	[1336, 1337]	2723	[4539, 4540]	4745	[1917, 5565]	6767	[288, 7767]
702	[302, 1338]	2724	[4251, 4541]	4746	[5187, 5537]	6768	[7768, 2662]
703	[1339, 1340]	2725	[4542, 3545]	4747	[2674, 5539]	6769	[2819, 5733]
704	[1341, 1342]	2726	[4543, 4544]	4748	[6519, 5453]	6770	[726, 6134]
705	[1204, 1343]	2727	[4545, 4546]	4749	[5984, 5592]	6771	[2769, 6607]
706	[1344, 1345]	2728	[3996, 4547]	4750	[6627, 2410]	6772	[2848, 2753]
707	[1346, 965]	2729	[3998, 1237]	4751	[2143, 6628]	6773	[5675, 7769]
708	[1347, 1348]	2730	[4531, 1339]	4752	[6629, 6575]	6774	[2296, 7770]
709	[1349, 1350]	2731	[1266, 4187]	4753	[2021, 6617]	6775	[928, 5462]
710	[1351, 1352]	2732	[4548, 4549]	4754	[2990, 2592]	6776	[7771, 2353]
711	[1353, 1354]	2733	[4550, 4417]	4755	[6263, 3114]	6777	[7772, 5144]
712	[1355, 1356]	2734	[4551, 4552]	4756	[6382, 6630]	6778	[2542, 7773]
713	[1357, 1358]	2735	[1017, 4553]	4757	[6600, 3138]	6779	[922, 5038]
714	[1359, 1360]	2736	[4554, 4555]	4758	[1790, 6057]	6780	[7774, 6557]
715	[1361, 389]	2737	[4556, 4557]	4759	[226, 6343]	6781	[2676, 3113]
716	[1362, 1363]	2738	[4558, 1395]	4760	[3042, 2774]	6782	[6767, 7772]
717	[1364, 1365]	2739	[1505, 4559]	4761	[6071, 6631]	6783	[6690, 6218]
718	[1366, 1367]	2740	[372, 4295]	4762	[2434, 1912]	6784	[1871, 3030]
719	[1368, 1369]	2741	[4560, 4561]	4763	[2833, 5702]	6785	[501, 7775]
720	[1370, 1371]	2742	[4562, 3711]	4764	[5680, 694]	6786	[5523, 7776]

721	[954, 1372]	2743	[3223, 283]	4765	[5618, 6632]	6787	[6425, 7777]
722	[1373, 1374]	2744	[3225, 4563]	4766	[2379, 6398]	6788	[2970, 682]
723	[1375, 1376]	2745	[3965, 4564]	4767	[2631, 6633]	6789	[7778, 6082]
724	[1377, 1378]	2746	[4565, 4566]	4768	[6634, 6456]	6790	[6766, 6084]
725	[1379, 1380]	2747	[4567, 4568]	4769	[5433, 6635]	6791	[548, 2582]
726	[1381, 1382]	2748	[4569, 4570]	4770	[2612, 2948]	6792	[2151, 7779]
727	[1383, 356]	2749	[4571, 4572]	4771	[6636, 6637]	6793	[7780, 5058]
728	[1384, 1385]	2750	[4573, 4574]	4772	[6269, 6638]	6794	[7781, 7782]
729	[1386, 1387]	2751	[3248, 4575]	4773	[1828, 1866]	6795	[7783, 2892]
730	[1388, 1389]	2752	[1439, 4576]	4774	[5673, 6550]	6796	[5441, 6673]
731	[1390, 1391]	2753	[4577, 3843]	4775	[5952, 6639]	6797	[6511, 6415]
732	[956, 1392]	2754	[4402, 4578]	4776	[810, 2016]	6798	[6734, 7784]
733	[1393, 1394]	2755	[1503, 4579]	4777	[6127, 835]	6799	[7785, 7786]
734	[1395, 1396]	2756	[4580, 3451]	4778	[6640, 6641]	6800	[5419, 7787]
735	[1397, 1398]	2757	[3576, 4581]	4779	[5069, 6150]	6801	[5899, 6143]
736	[1399, 1400]	2758	[3572, 4485]	4780	[5911, 6460]	6802	[6301, 6075]
737	[1401, 1402]	2759	[3574, 4582]	4781	[6642, 5356]	6803	[6224, 5281]
738	[1403, 1404]	2760	[4583, 4584]	4782	[2274, 6463]	6804	[7788, 2163]
739	[1405, 1406]	2761	[3577, 4391]	4783	[6367, 5448]	6805	[5156, 5020]
740	[972, 1407]	2762	[4585, 4586]	4784	[6643, 5029]	6806	[7789, 6701]
741	[1408, 1409]	2763	[4587, 3292]	4785	[6644, 2148]	6807	[7790, 5214]
742	[1410, 1411]	2764	[4588, 4589]	4786	[5071, 6528]	6808	[7791, 5784]
743	[1412, 1413]	2765	[1550, 4321]	4787	[2462, 5924]	6809	[7792, 5957]
744	[1414, 1415]	2766	[4460, 4020]	4788	[6645, 2543]	6810	[7793, 2101]
745	[1416, 1417]	2767	[1224, 450]	4789	[6560, 6646]	6811	[7794, 5024]
746	[1418, 1419]	2768	[4367, 1698]	4790	[5535, 2697]	6812	[2263, 2099]
747	[1420, 1421]	2769	[4590, 3725]	4791	[6647, 5452]	6813	[3085, 6294]
748	[1422, 1423]	2770	[339, 3517]	4792	[6221, 6648]	6814	[3000, 5163]
749	[1424, 1425]	2771	[4340, 4124]	4793	[6585, 942]	6815	[6157, 7788]
750	[1426, 1427]	2772	[4163, 4591]	4794	[6649, 6390]	6816	[7776, 6102]
751	[1428, 1429]	2773	[4592, 4593]	4795	[5776, 6429]	6817	[6476, 7795]
752	[1430, 1431]	2774	[4594, 4562]	4796	[5273, 6650]	6818	[6692, 1824]
753	[1432, 1433]	2775	[4595, 3220]	4797	[2698, 6651]	6819	[2538, 5814]
754	[1434, 1435]	2776	[3520, 4596]	4798	[6652, 6561]	6820	[6103, 2741]
755	[1436, 1437]	2777	[4597, 4535]	4799	[6653, 2380]	6821	[7796, 7797]
756	[1438, 1439]	2778	[3653, 4598]	4800	[6654, 2041]	6822	[7798, 7799]
757	[1440, 1441]	2779	[3258, 4599]	4801	[921, 2128]	6823	[3079, 787]
758	[1442, 1443]	2780	[4600, 4601]	4802	[6655, 6656]	6824	[5937, 7800]
759	[1444, 1445]	2781	[1009, 1442]	4803	[5672, 510]	6825	[5861, 5859]
760	[1446, 1035]	2782	[3345, 4602]	4804	[5935, 5382]	6826	[2658, 5176]
761	[1447, 1448]	2783	[4603, 4604]	4805	[5314, 6657]	6827	[6556, 2]
762	[1449, 1450]	2784	[4605, 4606]	4806	[6216, 6271]	6828	[5641, 5747]
763	[1451, 1452]	2785	[4607, 4608]	4807	[6397, 2370]	6829	[6648, 5415]
764	[1453, 1454]	2786	[4609, 4610]	4808	[2205, 6640]	6830	[2517, 6621]

765	[1455, 1456]	2787	[4611, 387]	4809	[6658, 5511]	6831	[5353, 7801]
766	[1457, 1219]	2788	[4017, 4612]	4810	[6659, 6660]	6832	[7802, 5993]
767	[964, 1458]	2789	[4613, 4614]	4811	[5322, 656]	6833	[7803, 7804]
768	[1459, 1460]	2790	[276, 4615]	4812	[5016, 5527]	6834	[7805, 5877]
769	[480, 1461]	2791	[4616, 4050]	4813	[6661, 6662]	6835	[202, 3076]
770	[18, 1462]	2792	[4617, 4618]	4814	[6543, 6663]	6836	[5303, 2726]
771	[1463, 1464]	2793	[4619, 4620]	4815	[6664, 5532]	6837	[7806, 2814]
772	[1465, 1466]	2794	[4621, 4622]	4816	[6665, 6655]	6838	[6262, 7807]
773	[1467, 1468]	2795	[343, 1131]	4817	[6666, 847]	6839	[7808, 7809]
774	[1469, 1470]	2796	[4623, 4624]	4818	[5268, 5856]	6840	[2342, 2422]
775	[1471, 1472]	2797	[4625, 4626]	4819	[2454, 6667]	6841	[6710, 7810]
776	[1473, 1474]	2798	[4627, 4628]	4820	[6603, 2821]	6842	[5936, 5806]
777	[1475, 1046]	2799	[4629, 4630]	4821	[6495, 6582]	6843	[6423, 7811]
778	[1476, 1477]	2800	[4631, 3443]	4822	[6497, 2222]	6844	[7812, 2047]
779	[1478, 1479]	2801	[4632, 957]	4823	[6668, 2310]	6845	[7813, 2359]
780	[1480, 1481]	2802	[4579, 4633]	4824	[712, 2857]	6846	[6714, 6482]
781	[1482, 1483]	2803	[4634, 3629]	4825	[2013, 5307]	6847	[7814, 758]
782	[1484, 1485]	2804	[4635, 4636]	4826	[2445, 6669]	6848	[932, 1838]
783	[1486, 1487]	2805	[4262, 3870]	4827	[2448, 6670]	6849	[7815, 6111]
784	[1485, 1488]	2806	[4637, 4638]	4828	[6100, 6671]	6850	[6280, 2235]
785	[1489, 1490]	2807	[4639, 4467]	4829	[5394, 6672]	6851	[5682, 6624]
786	[1491, 1353]	2808	[4640, 4641]	4830	[5887, 2565]	6852	[5698, 1855]
787	[1492, 1493]	2809	[4642, 4643]	4831	[6412, 233]	6853	[2141, 1993]
788	[1494, 1495]	2810	[4644, 4645]	4832	[6673, 5512]	6854	[7816, 2001]
789	[1496, 1497]	2811	[4646, 4647]	4833	[5496, 2511]	6855	[2036, 2956]
790	[1498, 1499]	2812	[4648, 4649]	4834	[6620, 6402]	6856	[5391, 584]
791	[1500, 1501]	2813	[4650, 4651]	4835	[6352, 5026]	6857	[7817, 7818]
792	[1502, 1503]	2814	[4652, 4653]	4836	[6674, 6675]	6858	[2252, 7819]
793	[1504, 1505]	2815	[3480, 4135]	4837	[2042, 5734]	6859	[5992, 6764]
794	[1506, 1507]	2816	[1573, 4654]	4838	[6676, 1870]	6860	[5994, 5032]
795	[1508, 1509]	2817	[444, 3573]	4839	[6625, 3107]	6861	[6259, 6665]
796	[1510, 1511]	2818	[4105, 3602]	4840	[6567, 2355]	6862	[5594, 5712]
797	[1512, 1513]	2819	[4561, 3547]	4841	[216, 2963]	6863	[7820, 7781]
798	[1514, 1515]	2820	[4655, 85]	4842	[6677, 3124]	6864	[6326, 227]
799	[1126, 1516]	2821	[1099, 1163]	4843	[6678, 6410]	6865	[6201, 508]
800	[1517, 1518]	2822	[3366, 4656]	4844	[2297, 715]	6866	[7821, 5468]
801	[1519, 1520]	2823	[978, 4657]	4845	[6419, 6679]	6867	[6209, 523]
802	[1521, 1522]	2824	[4658, 1584]	4846	[2270, 6614]	6868	[7822, 5056]
803	[1523, 1524]	2825	[3320, 4659]	4847	[6680, 6426]	6869	[2182, 2934]
804	[1525, 1526]	2826	[4660, 4661]	4848	[2, 779]	6870	[7823, 2871]
805	[1527, 1528]	2827	[4662, 4663]	4849	[162, 6120]	6871	[7824, 199]
806	[1263, 1529]	2828	[4574, 4664]	4850	[5967, 6681]	6872	[5958, 6475]
807	[420, 1530]	2829	[4665, 975]	4851	[5969, 5286]	6873	[5960, 5386]
808	[1531, 1532]	2830	[1272, 4666]	4852	[6682, 1859]	6874	[7825, 1789]

809	[1533, 1534]	2831	[4667, 4154]	4853	[6683, 5626]	6875	[2809, 2089]
810	[1535, 1536]	2832	[4668, 4312]	4854	[6684, 6404]	6876	[6112, 5444]
811	[1537, 1538]	2833	[4669, 3206]	4855	[5508, 5106]	6877	[739, 5146]
812	[1539, 1540]	2834	[1182, 4670]	4856	[2827, 5134]	6878	[2616, 5938]
813	[1541, 1542]	2835	[4671, 4672]	4857	[6685, 6686]	6879	[6741, 2196]
814	[1543, 1544]	2836	[4506, 4226]	4858	[6351, 551]	6880	[7826, 2824]
815	[1545, 1546]	2837	[4673, 4309]	4859	[6687, 6688]	6881	[6438, 5578]
816	[1547, 1548]	2838	[4674, 333]	4860	[6689, 6690]	6882	[7827, 2368]
817	[1549, 1550]	2839	[986, 3540]	4861	[6249, 6441]	6883	[7828, 2262]
818	[1551, 1552]	2840	[4675, 3542]	4862	[613, 5198]	6884	[5750, 7829]
819	[1553, 1055]	2841	[4676, 3470]	4863	[5073, 6342]	6885	[2852, 2794]
820	[1554, 1555]	2842	[4677, 4678]	4864	[6691, 2198]	6886	[7830, 5701]
821	[1556, 1557]	2843	[1158, 4679]	4865	[2281, 6692]	6887	[1812, 1977]
822	[446, 1558]	2844	[4680, 4681]	4866	[6693, 2823]	6888	[6623, 7831]
823	[1559, 1560]	2845	[4429, 4682]	4867	[2326, 2728]	6889	[2798, 5546]
824	[1561, 1562]	2846	[988, 1275]	4868	[2725, 2024]	6890	[7811, 6101]
825	[1563, 1564]	2847	[330, 4577]	4869	[5367, 2020]	6891	[5582, 7832]
826	[1565, 1566]	2848	[4683, 4684]	4870	[6170, 5631]	6892	[6722, 7821]
827	[1567, 1568]	2849	[4685, 4686]	4871	[6694, 6313]	6893	[6083, 5977]
828	[1569, 1422]	2850	[4687, 3363]	4872	[5941, 933]	6894	[7833, 6258]
829	[1570, 1571]	2851	[3302, 4621]	4873	[5759, 2954]	6895	[7786, 897]
830	[1572, 1573]	2852	[4688, 4689]	4874	[6695, 1853]	6896	[6413, 2372]
831	[1574, 1575]	2853	[4690, 1377]	4875	[6696, 6697]	6897	[6358, 7834]
832	[1576, 1577]	2854	[3719, 3522]	4876	[6698, 5693]	6898	[7797, 6300]
833	[1578, 1579]	2855	[4691, 1626]	4877	[5157, 6699]	6899	[6185, 7828]
834	[1580, 1581]	2856	[1389, 4692]	4878	[6671, 6700]	6900	[144, 6126]
835	[1582, 1583]	2857	[1354, 4693]	4879	[677, 6622]	6901	[6663, 6008]
836	[1584, 1585]	2858	[4694, 4695]	4880	[6701, 5572]	6902	[7835, 2597]
837	[1586, 1587]	2859	[1649, 1215]	4881	[5402, 6702]	6903	[826, 6713]
838	[1470, 1588]	2860	[4696, 4696]	4882	[2583, 6554]	6904	[5788, 5576]
839	[1589, 1590]	2861	[3622, 4697]	4883	[6662, 2390]	6905	[6583, 900]
840	[1591, 1592]	2862	[3630, 4333]	4884	[5209, 2363]	6906	[7836, 2378]
841	[1593, 1594]	2863	[3296, 4698]	4885	[5728, 6338]	6907	[6705, 7837]
842	[1595, 1596]	2864	[4699, 4700]	4886	[5766, 5422]	6908	[5142, 625]
843	[1597, 1598]	2865	[120, 4701]	4887	[5372, 6703]	6909	[5128, 7838]
844	[1599, 1600]	2866	[3714, 4702]	4888	[6334, 2279]	6910	[2837, 6379]
845	[1601, 1602]	2867	[3357, 4703]	4889	[6469, 6251]	6911	[5657, 6422]
846	[273, 1603]	2868	[4704, 4205]	4890	[6641, 6424]	6912	[134, 6222]
847	[1604, 1605]	2869	[4705, 4706]	4891	[5892, 247]	6913	[5730, 6492]
848	[1606, 1607]	2870	[4707, 3310]	4892	[3061, 250]	6914	[5529, 6200]
849	[1608, 1609]	2871	[3839, 1235]	4893	[6256, 159]	6915	[5531, 2053]
850	[1610, 1611]	2872	[4708, 4709]	4894	[6704, 791]	6916	[5414, 6467]
851	[1612, 1613]	2873	[4710, 4711]	4895	[5901, 6705]	6917	[5258, 6264]
852	[1614, 1615]	2874	[3635, 4712]	4896	[6337, 6706]	6918	[5526, 7839]

853	[1616, 1617]	2875	[4713, 3913]	4897	[6707, 6708]	6919	[7840, 6238]
854	[1618, 1619]	2876	[1740, 4714]	4898	[1787, 6687]	6920	[6329, 7841]
855	[1620, 1621]	2877	[4715, 4716]	4899	[6219, 2708]	6921	[2866, 7842]
856	[1622, 1623]	2878	[4717, 4718]	4900	[1903, 6551]	6922	[6586, 5378]
857	[104, 1624]	2879	[4719, 1718]	4901	[2835, 6709]	6923	[5357, 7843]
858	[1625, 1247]	2880	[3309, 4720]	4902	[6549, 6579]	6924	[244, 7844]
859	[1626, 1627]	2881	[3332, 4271]	4903	[6261, 2322]	6925	[7845, 5362]
860	[1628, 1629]	2882	[4537, 4721]	4904	[5605, 6710]	6926	[7846, 7847]
861	[1630, 1631]	2883	[4310, 4722]	4905	[5066, 771]	6927	[7848, 858]
862	[1632, 1633]	2884	[4723, 4724]	4906	[6711, 6712]	6928	[7849, 1836]
863	[1228, 1634]	2885	[4725, 4445]	4907	[3090, 2092]	6929	[856, 6610]
864	[1635, 1636]	2886	[4726, 1029]	4908	[5956, 6616]	6930	[5337, 175]
865	[1637, 1638]	2887	[4727, 3461]	4909	[6058, 1827]	6931	[7850, 7851]
866	[1639, 1480]	2888	[4728, 4729]	4910	[1911, 6321]	6932	[6536, 7852]
867	[1640, 1641]	2889	[4730, 977]	4911	[5186, 5212]	6933	[5719, 2620]
868	[1642, 1643]	2890	[4731, 4732]	4912	[2429, 696]	6934	[6116, 7853]
869	[1242, 1644]	2891	[4733, 4734]	4913	[6713, 6714]	6935	[3127, 6588]
870	[1645, 1646]	2892	[4735, 3477]	4914	[6489, 2718]	6936	[2671, 5908]
871	[1647, 479]	2893	[3554, 3947]	4915	[2686, 6574]	6937	[7854, 2357]
872	[1648, 1649]	2894	[4736, 3868]	4916	[6715, 6598]	6938	[3022, 7855]
873	[1650, 1651]	2895	[4737, 3847]	4917	[6716, 6717]	6939	[7856, 5795]
874	[1571, 1652]	2896	[3507, 4738]	4918	[2593, 6718]	6940	[5250, 7835]
875	[1653, 1654]	2897	[3923, 1531]	4919	[5867, 5736]	6941	[6174, 6003]
876	[1655, 1656]	2898	[311, 4218]	4920	[716, 5650]	6942	[7857, 6611]
877	[1657, 1658]	2899	[4739, 4740]	4921	[2455, 6719]	6943	[871, 231]
878	[1659, 1660]	2900	[4741, 4742]	4922	[784, 6046]	6944	[5478, 6683]
879	[1661, 1662]	2901	[4743, 4480]	4923	[944, 2423]	6945	[6363, 5330]
880	[1534, 1663]	2902	[4744, 299]	4924	[6720, 5604]	6946	[6632, 5846]
881	[1664, 1665]	2903	[4745, 4691]	4925	[2316, 2880]	6947	[5907, 6537]
882	[1666, 306]	2904	[4746, 4747]	4926	[2323, 5713]	6948	[6078, 7858]
883	[1667, 1668]	2905	[4584, 4748]	4927	[6721, 6722]	6949	[5559, 2783]
884	[1472, 1438]	2906	[4749, 4750]	4928	[5815, 2446]	6950	[5042, 5370]
885	[1669, 1670]	2907	[1777, 4736]	4929	[5973, 6677]	6951	[6494, 6335]
886	[1671, 1672]	2908	[4751, 4752]	4930	[6026, 6253]	6952	[685, 1847]
887	[1673, 1674]	2909	[384, 3440]	4931	[6723, 3154]	6953	[818, 3091]
888	[1675, 1676]	2910	[4753, 4733]	4932	[6400, 5596]	6954	[7859, 815]
889	[1677, 1678]	2911	[3579, 4483]	4933	[6006, 5304]	6955	[6732, 5848]
890	[1679, 344]	2912	[4754, 1368]	4934	[6106, 6724]	6956	[1834, 2750]
891	[1133, 1680]	2913	[4755, 4756]	4935	[2319, 2635]	6957	[5425, 5110]
892	[336, 1681]	2914	[4757, 4326]	4936	[6183, 2973]	6958	[5643, 129]
893	[1652, 1682]	2915	[4758, 458]	4937	[6612, 580]	6959	[6115, 7860]
894	[1683, 1684]	2916	[4679, 4759]	4938	[2345, 6399]	6960	[7861, 6570]
895	[1685, 1686]	2917	[1705, 4760]	4939	[6725, 6284]	6961	[2432, 2490]
896	[1687, 1628]	2918	[4761, 4631]	4940	[5175, 6726]	6962	[3093, 5332]

897	[1688, 1689]	2919	[3361, 4583]	4941	[6727, 5706]	6963	[5413, 6107]
898	[1690, 1691]	2920	[3364, 4118]	4942	[5348, 6728]	6964	[532, 2367]
899	[1692, 1666]	2921	[3471, 3980]	4943	[6729, 6689]	6965	[7862, 5918]
900	[1693, 369]	2922	[4762, 1021]	4944	[6730, 6731]	6966	[7863, 7864]
901	[1694, 1695]	2923	[3252, 4710]	4945	[3008, 819]	6967	[7865, 659]
902	[1696, 1697]	2924	[1062, 4763]	4946	[6327, 6732]	6968	[7866, 2327]
903	[1698, 1582]	2925	[4764, 4765]	4947	[6733, 6723]	6969	[5896, 7867]
904	[1699, 1700]	2926	[4766, 4767]	4948	[5541, 6734]	6970	[6565, 2308]
905	[1701, 1702]	2927	[4768, 4769]	4949	[5653, 5431]	6971	[5909, 7868]
906	[1703, 405]	2928	[3802, 1426]	4950	[736, 6015]	6972	[5845, 1995]
907	[1704, 1705]	2929	[4287, 3633]	4951	[5461, 5102]	6973	[5154, 6290]
908	[1706, 1707]	2930	[282, 4770]	4952	[6735, 2285]	6974	[7795, 5272]
909	[1474, 1304]	2931	[4771, 73]	4953	[5387, 6642]	6975	[5591, 6750]
910	[1708, 1709]	2932	[4568, 4772]	4954	[6712, 702]	6976	[6378, 5812]
911	[1710, 1711]	2933	[4773, 1586]	4955	[5421, 141]	6977	[5659, 5829]
912	[1712, 1713]	2934	[4774, 4775]	4956	[6002, 825]	6978	[7869, 7808]
913	[1714, 1715]	2935	[4776, 4777]	4957	[2864, 5809]	6979	[6068, 7870]
914	[1716, 1717]	2936	[1064, 4220]	4958	[728, 6736]	6980	[6393, 6042]
915	[1718, 1719]	2937	[1762, 3649]	4959	[5816, 562]	6981	[6681, 7871]
916	[1720, 1721]	2938	[4641, 3755]	4960	[5620, 6737]	6982	[2507, 7872]
917	[1722, 1723]	2939	[4778, 4779]	4961	[912, 6738]	6983	[6164, 516]
918	[1261, 1724]	2940	[4780, 3790]	4962	[6605, 5895]	6984	[2480, 2018]
919	[1725, 1044]	2941	[4781, 3717]	4963	[6739, 6740]	6985	[7860, 2912]
920	[1726, 75]	2942	[4151, 3578]	4964	[5484, 6741]	6986	[6005, 7873]
921	[1727, 1728]	2943	[1226, 4782]	4965	[5875, 5507]	6987	[7874, 7875]
922	[1501, 1729]	2944	[4783, 4784]	4966	[2158, 6742]	6988	[6389, 7876]
923	[1730, 1731]	2945	[4785, 3580]	4967	[5321, 6013]	6989	[6464, 5191]
924	[1732, 1733]	2946	[4732, 3478]	4968	[6602, 6141]	6990	[2721, 137]
925	[1734, 1735]	2947	[1216, 4786]	4969	[5863, 725]	6991	[5039, 7877]
926	[1139, 1736]	2948	[4787, 4788]	4970	[5704, 6743]	6992	[2201, 6711]
927	[1737, 1738]	2949	[4789, 4790]	4971	[6040, 6744]	6993	[1806, 6122]
928	[1739, 1740]	2950	[4791, 109]	4972	[6331, 6745]	6994	[7878, 7879]
929	[1741, 1742]	2951	[4792, 4793]	4973	[5438, 6746]	6995	[3133, 5088]
930	[1743, 1031]	2952	[4794, 1765]	4974	[6747, 145]	6996	[5082, 7880]
931	[1744, 318]	2953	[4795, 4783]	4975	[6532, 582]	6997	[6651, 7881]
932	[1745, 1746]	2954	[1156, 4796]	4976	[6667, 5729]	6998	[6498, 7882]
933	[1747, 1748]	2955	[4797, 4798]	4977	[5753, 6571]	6999	[6431, 805]
934	[1749, 1750]	2956	[4799, 4592]	4978	[2054, 6654]	7000	[778, 5076]
935	[382, 1751]	2957	[4800, 4801]	4979	[6748, 6749]	7001	[7883, 2070]
936	[1752, 1714]	2958	[4802, 3178]	4980	[6750, 6751]	7002	[7800, 2947]
937	[1753, 1754]	2959	[4803, 4804]	4981	[142, 6752]	7003	[5824, 2035]
938	[1755, 1756]	2960	[3489, 4805]	4982	[5590, 6753]	7004	[2498, 6499]
939	[1757, 1758]	2961	[4806, 107]	4983	[861, 5985]	7005	[6019, 5645]
940	[1759, 1760]	2962	[4422, 4807]	4984	[2856, 5225]	7006	[5112, 2282]

941	[1761, 1762]	2963	[4808, 4809]	4985	[5797, 5067]	7007	[5548, 7884]
942	[1763, 1764]	2964	[4810, 4811]	4986	[6754, 5138]	7008	[7885, 45]
943	[1765, 1766]	2965	[3159, 4812]	4987	[6755, 5349]	7009	[1848, 6576]
944	[1767, 1768]	2966	[4813, 4814]	4988	[6220, 5178]	7010	[7886, 5943]
945	[1431, 1769]	2967	[4815, 4816]	4989	[2636, 931]	7011	[5841, 7887]
946	[1770, 1771]	2968	[4698, 401]	4990	[5886, 6035]	7012	[7888, 6344]
947	[1772, 1773]	2969	[4817, 4818]	4991	[2873, 588]	7013	[7889, 2799]
948	[1774, 1775]	2970	[4819, 358]	4992	[3056, 5558]	7014	[896, 2039]
949	[1776, 1777]	2971	[1289, 4820]	4993	[5140, 6756]	7015	[5676, 49]
950	[1778, 1779]	2972	[4821, 4822]	4994	[6552, 6757]	7016	[5735, 5662]
951	[1780, 1781]	2973	[4823, 1606]	4995	[671, 3089]	7017	[2044, 2758]
952	[1782, 1783]	2974	[3640, 4824]	4996	[6697, 6758]	7018	[2562, 2699]
953	[1784, 1785]	2975	[3641, 4825]	4997	[6759, 5609]	7019	[6430, 7890]
954	[1786, 1787]	2976	[1332, 4826]	4998	[6760, 2442]	7020	[5903, 2232]
955	[937, 1788]	2977	[1335, 4827]	4999	[6761, 2136]	7021	[5044, 3140]
956	[1789, 1790]	2978	[30, 4828]	5000	[2872, 648]	7022	[2680, 7891]
957	[1791, 1792]	2979	[298, 4829]	5001	[2875, 6762]	7023	[2664, 7892]
958	[1793, 1794]	2980	[3979, 4629]	5002	[5290, 5095]	7024	[636, 7893]
959	[1795, 1796]	2981	[3869, 4830]	5003	[6296, 6763]	7025	[6753, 6403]
960	[1797, 155]	2982	[4831, 4785]	5004	[1949, 560]	7026	[2575, 6580]
961	[1798, 773]	2983	[4832, 4833]	5005	[1951, 6163]	7027	[7807, 5312]
962	[1799, 1800]	2984	[4834, 4428]	5006	[3013, 6435]	7028	[882, 7894]
963	[1801, 1802]	2985	[4748, 4835]	5007	[6764, 6680]	7029	[7895, 5180]
964	[1803, 1804]	2986	[476, 4836]	5008	[6670, 6369]	7030	[7773, 6652]
965	[1805, 1806]	2987	[4089, 4837]	5009	[6765, 6377]	7031	[7896, 6634]
966	[1807, 1808]	2988	[4838, 4744]	5010	[204, 6766]	7032	[2147, 6545]
967	[1809, 1810]	2989	[4839, 4840]	5011	[5991, 6767]	7033	[6546, 5820]
968	[1811, 1812]	2990	[4633, 4794]	5012	[6768, 6769]	7034	[2405, 6720]
969	[1813, 1814]	2991	[4392, 4841]	5013	[3527, 4865]	7035	[5858, 5013]
970	[1815, 1816]	2992	[3877, 4560]	5014	[6770, 6771]	7036	[6196, 3019]
971	[1817, 1818]	2993	[4842, 4843]	5015	[1577, 6772]	7037	[5978, 5763]
972	[1819, 1820]	2994	[3269, 4844]	5016	[3708, 6773]	7038	[947, 6370]
973	[657, 1821]	2995	[4845, 379]	5017	[3650, 1703]	7039	[499, 7785]
974	[1822, 1823]	2996	[4846, 3886]	5018	[1240, 6774]	7040	[7897, 2687]
975	[1824, 719]	2997	[4264, 4007]	5019	[3558, 6775]	7041	[2610, 6493]
976	[1825, 1826]	2998	[3375, 4847]	5020	[6776, 83]	7042	[5350, 5726]
977	[1827, 1828]	2999	[3263, 4848]	5021	[6777, 6778]	7043	[7898, 7899]
978	[1829, 1830]	3000	[3675, 4849]	5022	[3186, 6779]	7044	[54, 7900]
979	[1831, 1832]	3001	[4850, 4851]	5023	[1609, 6780]	7045	[7901, 6514]
980	[1833, 1834]	3002	[4852, 993]	5024	[4232, 6781]	7046	[5361, 2496]
981	[1835, 521]	3003	[4853, 3394]	5025	[4414, 367]	7047	[2469, 7902]
982	[1836, 1837]	3004	[4854, 4431]	5026	[6782, 3390]	7048	[6468, 803]
983	[1838, 1839]	3005	[3543, 4855]	5027	[4055, 6783]	7049	[2949, 7903]
984	[1840, 1841]	3006	[4856, 4857]	5028	[6784, 6785]	7050	[7904, 5155]

985	[128, 1842]	3007	[3370, 1553]	5029	[1124, 6786]	7051	[2481, 2625]
986	[1843, 1844]	3008	[4858, 4307]	5030	[6787, 6788]	7052	[6726, 6420]
987	[1845, 1846]	3009	[4423, 4859]	5031	[4174, 4885]	7053	[6515, 5752]
988	[1847, 1848]	3010	[4860, 338]	5032	[6789, 6790]	7054	[6228, 6506]
989	[1849, 1850]	3011	[3184, 4861]	5033	[4593, 1233]	7055	[5945, 211]
990	[1851, 1852]	3012	[4241, 4862]	5034	[6791, 6792]	7056	[5617, 6564]
991	[1853, 1854]	3013	[1641, 4863]	5035	[6793, 6794]	7057	[2008, 7905]
992	[1855, 1856]	3014	[4864, 4587]	5036	[6795, 6796]	7058	[6145, 2320]
993	[1857, 1858]	3015	[4865, 3829]	5037	[4510, 4542]	7059	[6255, 5746]
994	[1859, 1860]	3016	[4058, 4215]	5038	[4861, 3809]	7060	[6744, 5838]
995	[1861, 1862]	3017	[4711, 4866]	5039	[1729, 3841]	7061	[6745, 7906]
996	[50, 1863]	3018	[1259, 4867]	5040	[3160, 1114]	7062	[6639, 7907]
997	[1864, 1865]	3019	[1682, 4868]	5041	[6797, 6798]	7063	[7908, 5638]
998	[1866, 1867]	3020	[4869, 1081]	5042	[6799, 6800]	7064	[7909, 6544]
999	[1868, 1869]	3021	[4870, 4871]	5043	[3190, 6801]	7065	[7829, 5259]
1000	[1870, 1871]	3022	[4638, 4872]	5044	[6802, 6803]	7066	[6530, 6531]
1001	[1872, 1873]	3023	[1196, 4873]	5045	[6804, 1159]	7067	[5294, 6095]
1002	[1874, 1875]	3024	[4874, 4875]	5046	[6805, 4609]	7068	[2688, 7910]
1003	[1876, 1877]	3025	[4876, 4813]	5047	[4857, 6806]	7069	[7911, 7912]
1004	[1878, 1879]	3026	[4877, 4878]	5048	[6807, 3438]	7070	[6247, 2516]
1005	[1880, 1881]	3027	[4879, 4739]	5049	[6801, 6802]	7071	[2564, 6176]
1006	[1882, 1883]	3028	[4602, 4880]	5050	[1250, 6808]	7072	[6719, 5111]
1007	[544, 1884]	3029	[4881, 1539]	5051	[4285, 6809]	7073	[7913, 5742]
1008	[1885, 1886]	3030	[4882, 4883]	5052	[6810, 3185]	7074	[2791, 7914]
1009	[1887, 1888]	3031	[3306, 4884]	5053	[6811, 1478]	7075	[6354, 7813]
1010	[1889, 1890]	3032	[4885, 4886]	5054	[4457, 4033]	7076	[5064, 5667]
1011	[1818, 1891]	3033	[3425, 4887]	5055	[4702, 4164]	7077	[2607, 7827]
1012	[1892, 1893]	3034	[4888, 4726]	5056	[4345, 6812]	7078	[599, 7836]
1013	[1894, 1895]	3035	[3497, 3312]	5057	[1324, 6813]	7079	[6149, 2776]
1014	[1896, 1897]	3036	[4889, 1745]	5058	[4589, 4787]	7080	[6208, 6619]
1015	[1898, 1899]	3037	[4890, 4449]	5059	[6814, 3272]	7081	[7915, 5865]
1016	[1900, 1901]	3038	[96, 4891]	5060	[3685, 1165]	7082	[7916, 2531]
1017	[1902, 1903]	3039	[1605, 4892]	5061	[3686, 4018]	7083	[6660, 2792]
1018	[1904, 1905]	3040	[1367, 1498]	5062	[1768, 1033]	7084	[7917, 5502]
1019	[1906, 1907]	3041	[4533, 4594]	5063	[1746, 4353]	7085	[138, 7918]
1020	[1908, 1909]	3042	[4700, 4893]	5064	[968, 6815]	7086	[6465, 6765]
1021	[1910, 1911]	3043	[4894, 4895]	5065	[6774, 6816]	7087	[2651, 6360]
1022	[1912, 1913]	3044	[4896, 4897]	5066	[4628, 1465]	7088	[5577, 3050]
1023	[1914, 1915]	3045	[4898, 4899]	5067	[6817, 6818]	7089	[7775, 7919]
1024	[1916, 1917]	3046	[4900, 4627]	5068	[4692, 6819]	7090	[5874, 2932]
1025	[1918, 1919]	3047	[4901, 3337]	5069	[1398, 1541]	7091	[7858, 5990]
1026	[1920, 1921]	3048	[4902, 4903]	5070	[6820, 6821]	7092	[7887, 5900]
1027	[1922, 1923]	3049	[4904, 4905]	5071	[3541, 6822]	7093	[7920, 7921]
1028	[1924, 1925]	3050	[4365, 4728]	5072	[4134, 6823]	7094	[5093, 6128]

1029	[1926, 53]	3051	[4906, 4907]	5073	[6824, 6825]	7095	[3129, 6696]
1030	[1927, 1928]	3052	[4908, 4909]	5074	[4927, 6826]	7096	[2929, 5940]
1031	[1929, 1930]	3053	[4910, 3718]	5075	[6827, 4944]	7097	[5256, 6097]
1032	[1931, 1932]	3054	[3219, 4478]	5076	[6828, 6829]	7098	[5606, 7796]
1033	[1933, 1934]	3055	[3289, 4911]	5077	[3383, 1157]	7099	[6703, 2844]
1034	[1935, 1936]	3056	[4536, 4773]	5078	[6830, 4879]	7100	[7922, 6197]
1035	[1852, 1937]	3057	[4912, 1701]	5079	[1307, 6831]	7101	[196, 2312]
1036	[1938, 1939]	3058	[4913, 4914]	5080	[6832, 6833]	7102	[2183, 7923]
1037	[1940, 1941]	3059	[1479, 4915]	5081	[4196, 6834]	7103	[7924, 7850]
1038	[1942, 1943]	3060	[4916, 4917]	5082	[4612, 4971]	7104	[7925, 7926]
1039	[1944, 700]	3061	[3851, 1549]	5083	[4553, 6835]	7105	[2618, 6488]
1040	[1945, 1946]	3062	[4000, 3475]	5084	[6836, 1436]	7106	[6184, 5504]
1041	[814, 1947]	3063	[3508, 4918]	5085	[6837, 6838]	7107	[7927, 7793]
1042	[1948, 1949]	3064	[4837, 4919]	5086	[4311, 6839]	7108	[6273, 7928]
1043	[1950, 1951]	3065	[1372, 4920]	5087	[4572, 6840]	7109	[7918, 7929]
1044	[1952, 1953]	3066	[4921, 4922]	5088	[337, 6841]	7110	[5498, 2720]
1045	[1954, 1955]	3067	[4923, 4924]	5089	[380, 6842]	7111	[174, 6487]
1046	[1956, 1957]	3068	[1253, 4925]	5090	[6843, 6844]	7112	[176, 7930]
1047	[1958, 1954]	3069	[4926, 4927]	5091	[6845, 1276]	7113	[6737, 1938]
1048	[1959, 1960]	3070	[4261, 4928]	5092	[6835, 3301]	7114	[828, 7794]
1049	[1961, 1962]	3071	[1581, 4929]	5093	[4914, 6846]	7115	[5655, 727]
1050	[1963, 1964]	3072	[4664, 473]	5094	[1313, 6847]	7116	[7931, 6735]
1051	[1965, 1931]	3073	[4004, 4930]	5095	[6848, 3222]	7117	[2381, 5189]
1052	[1966, 1967]	3074	[4931, 1650]	5096	[4066, 3837]	7118	[7932, 7933]
1053	[1968, 1969]	3075	[4932, 1451]	5097	[3198, 6849]	7119	[5915, 6411]
1054	[1970, 1971]	3076	[4933, 4934]	5098	[6850, 4889]	7120	[5639, 7934]
1055	[1972, 1973]	3077	[4935, 4936]	5099	[6851, 3376]	7121	[7935, 5612]
1056	[822, 1974]	3078	[4937, 393]	5100	[3691, 6852]	7122	[2505, 6659]
1057	[1975, 1976]	3079	[4443, 4938]	5101	[6853, 1067]	7123	[6092, 7859]
1058	[1977, 1978]	3080	[3994, 3688]	5102	[6854, 1071]	7124	[2473, 2571]
1059	[1979, 1980]	3081	[4939, 4283]	5103	[6855, 6856]	7125	[6368, 6627]
1060	[1981, 1982]	3082	[1248, 3720]	5104	[6857, 6858]	7126	[7834, 1999]
1061	[1983, 1984]	3083	[4940, 4941]	5105	[1448, 4989]	7127	[7936, 6332]
1062	[1985, 1986]	3084	[4843, 4571]	5106	[6859, 6860]	7128	[7902, 7937]
1063	[1987, 1966]	3085	[4942, 4943]	5107	[6861, 4384]	7129	[6686, 6755]
1064	[1877, 1988]	3086	[4944, 4045]	5108	[4450, 6862]	7130	[7938, 7913]
1065	[1989, 1990]	3087	[422, 1610]	5109	[4591, 6863]	7131	[7939, 7849]
1066	[1991, 1992]	3088	[3698, 4328]	5110	[6864, 3636]	7132	[6590, 6636]
1067	[1814, 1817]	3089	[4945, 3492]	5111	[4184, 6865]	7133	[2585, 2226]
1068	[1993, 1994]	3090	[4946, 4947]	5112	[6866, 6867]	7134	[5152, 7940]
1069	[1995, 1996]	3091	[4948, 1292]	5113	[1773, 1653]	7135	[7941, 7889]
1070	[1997, 1998]	3092	[4083, 4949]	5114	[6868, 4114]	7136	[2893, 5426]
1071	[1999, 2000]	3093	[4950, 1774]	5115	[3892, 6869]	7137	[5505, 7942]
1072	[2001, 2002]	3094	[3659, 4951]	5116	[6870, 6871]	7138	[7943, 740]

1073	[2003, 2004]	3095	[4453, 4952]	5117	[257, 1211]	7139	[5847, 2781]
1074	[2005, 2006]	3096	[1311, 4953]	5118	[6872, 6873]	7140	[2127, 837]
1075	[2007, 2008]	3097	[4954, 1053]	5119	[1552, 4755]	7141	[44, 7944]
1076	[2009, 2010]	3098	[3468, 4955]	5120	[4540, 6874]	7142	[2221, 235]
1077	[2011, 179]	3099	[3981, 4956]	5121	[6875, 3932]	7143	[6688, 7901]
1078	[2012, 2013]	3100	[4924, 4957]	5122	[4155, 3984]	7144	[7945, 3001]
1079	[2014, 2015]	3101	[4219, 4958]	5123	[4259, 6837]	7145	[2495, 157]
1080	[2016, 2017]	3102	[3801, 4959]	5124	[4081, 6876]	7146	[7946, 7861]
1081	[2018, 2019]	3103	[1564, 4960]	5125	[6877, 1508]	7147	[7944, 7947]
1082	[2020, 2021]	3104	[4887, 4961]	5126	[1026, 4469]	7148	[6383, 5309]
1083	[2022, 2023]	3105	[4962, 3879]	5127	[6878, 6879]	7149	[6257, 7948]
1084	[2024, 2025]	3106	[4963, 3431]	5128	[6880, 3748]	7150	[7949, 6522]
1085	[2026, 2027]	3107	[470, 1323]	5129	[5001, 4436]	7151	[1998, 7950]
1086	[62, 2028]	3108	[1435, 4964]	5130	[6881, 6882]	7152	[3106, 2243]
1087	[2029, 2030]	3109	[4965, 4966]	5131	[6883, 4096]	7153	[2119, 5460]
1088	[2031, 2032]	3110	[4967, 4968]	5132	[1174, 6884]	7154	[6471, 37]
1089	[2033, 2034]	3111	[4779, 4890]	5133	[4255, 1772]	7155	[2231, 6138]
1090	[2035, 2036]	3112	[4969, 471]	5134	[3842, 6810]	7156	[2023, 7951]
1091	[2037, 2038]	3113	[4234, 4970]	5135	[4005, 4073]	7157	[5306, 3003]
1092	[2039, 2040]	3114	[4971, 4972]	5136	[478, 395]	7158	[894, 951]
1093	[2041, 2042]	3115	[3610, 4973]	5137	[1579, 6885]	7159	[6646, 5483]
1094	[2043, 2044]	3116	[1758, 4640]	5138	[1198, 6886]	7160	[7952, 5253]
1095	[2045, 2046]	3117	[3792, 4974]	5139	[6887, 1057]	7161	[1792, 6307]
1096	[2047, 2048]	3118	[4975, 4254]	5140	[6888, 4145]	7162	[2347, 7953]
1097	[2049, 2050]	3119	[4976, 1393]	5141	[1030, 1094]	7163	[6297, 7874]
1098	[2051, 2052]	3120	[4977, 4978]	5142	[6889, 6799]	7164	[6589, 2882]
1099	[2053, 2054]	3121	[4979, 4980]	5143	[6844, 6890]	7165	[589, 5524]
1100	[2055, 2056]	3122	[4981, 4982]	5144	[1184, 6891]	7166	[5917, 7878]
1101	[1990, 2057]	3123	[4883, 4494]	5145	[6892, 6893]	7167	[1881, 2418]
1102	[2058, 2059]	3124	[4983, 4513]	5146	[3848, 6894]	7168	[7954, 6462]
1103	[2060, 2061]	3125	[1417, 4984]	5147	[6895, 65]	7169	[7818, 7955]
1104	[2062, 2063]	3126	[3481, 4985]	5148	[4441, 6896]	7170	[7956, 7957]
1105	[2064, 2065]	3127	[3422, 4986]	5149	[6897, 3778]	7171	[824, 2953]
1106	[2066, 2067]	3128	[4987, 4988]	5150	[6898, 3774]	7172	[6637, 7783]
1107	[2068, 2069]	3129	[4989, 4569]	5151	[4649, 4881]	7173	[6406, 3021]
1108	[2070, 2071]	3130	[4528, 4357]	5152	[3323, 3224]	7174	[5627, 2878]
1109	[2072, 2073]	3131	[4990, 4080]	5153	[6899, 6900]	7175	[5646, 7780]
1110	[2074, 2075]	3132	[4991, 4992]	5154	[4836, 6901]	7176	[7810, 7922]
1111	[2076, 2077]	3133	[4993, 4994]	5155	[4470, 3989]	7177	[6444, 5525]
1112	[2078, 2079]	3134	[4995, 4387]	5156	[1396, 6902]	7178	[2701, 5481]
1113	[251, 1981]	3135	[1719, 3410]	5157	[114, 6903]	7179	[6478, 7958]
1114	[2080, 2081]	3136	[4934, 4996]	5158	[386, 1197]	7180	[2605, 6373]
1115	[555, 2082]	3137	[284, 3920]	5159	[6904, 3231]	7181	[5951, 5049]
1116	[2083, 2084]	3138	[4997, 4380]	5160	[6905, 6906]	7182	[764, 5593]

1117	[2085, 2086]	3139	[4998, 4999]	5161	[6907, 6908]	7183	[6472, 5830]
1118	[776, 2087]	3140	[4552, 4821]	5162	[6909, 6910]	7184	[524, 5822]
1119	[2088, 43]	3141	[4770, 1473]	5163	[3677, 1006]	7185	[7942, 6025]
1120	[2089, 147]	3142	[1590, 5000]	5164	[4849, 6911]	7186	[7912, 2233]
1121	[2090, 2091]	3143	[1592, 5001]	5165	[4227, 465]	7187	[6505, 5269]
1122	[2092, 2093]	3144	[4394, 4515]	5166	[6912, 6913]	7188	[5980, 7959]
1123	[2094, 1965]	3145	[1110, 5002]	5167	[1466, 1271]	7189	[5634, 7960]
1124	[2095, 2096]	3146	[4300, 5003]	5168	[6914, 6915]	7190	[7961, 5244]
1125	[2097, 2098]	3147	[5004, 5005]	5169	[1052, 4290]	7191	[5589, 887]
1126	[2099, 2100]	3148	[5006, 4990]	5170	[6916, 1667]	7192	[5944, 3148]
1127	[2101, 2102]	3149	[5007, 5008]	5171	[6917, 6918]	7193	[5454, 6177]
1128	[2103, 2104]	3150	[3969, 4092]	5172	[6919, 4803]	7194	[7868, 5352]
1129	[2105, 2106]	3151	[3546, 1167]	5173	[4984, 6920]	7195	[7962, 7946]
1130	[2107, 2108]	3152	[3896, 5009]	5174	[6921, 3589]	7196	[2441, 2772]
1131	[2109, 2110]	3153	[4992, 1147]	5175	[982, 6922]	7197	[3144, 7917]
1132	[2111, 1833]	3154	[267, 5010]	5176	[1222, 3995]	7198	[6028, 6721]
1133	[2112, 2113]	3155	[364, 5011]	5177	[6923, 4675]	7199	[3049, 6069]
1134	[2114, 2115]	3156	[5012, 2822]	5178	[4899, 4165]	7200	[7784, 7885]
1135	[2116, 2117]	3157	[5013, 5014]	5179	[6924, 3783]	7201	[6523, 3126]
1136	[2118, 2119]	3158	[5015, 5016]	5180	[6925, 6926]	7202	[5384, 6023]
1137	[2120, 2121]	3159	[2093, 5017]	5181	[4042, 4236]	7203	[2150, 5600]
1138	[2122, 2123]	3160	[5018, 5019]	5182	[6927, 1637]	7204	[593, 925]
1139	[2124, 2125]	3161	[5020, 2068]	5183	[6928, 981]	7205	[6709, 5036]
1140	[2126, 2127]	3162	[5021, 2114]	5184	[440, 6929]	7206	[5503, 7963]
1141	[2128, 2129]	3163	[5022, 5023]	5185	[6930, 6931]	7207	[7964, 809]
1142	[2130, 2131]	3164	[5024, 2011]	5186	[4604, 3168]	7208	[2352, 6716]
1143	[2132, 2133]	3165	[2773, 2689]	5187	[4608, 6932]	7209	[6736, 752]
1144	[2134, 2135]	3166	[2775, 5025]	5188	[984, 6933]	7210	[236, 6668]
1145	[2136, 2137]	3167	[5026, 241]	5189	[4085, 6934]	7211	[6743, 7965]
1146	[2138, 2139]	3168	[5027, 5028]	5190	[1024, 6935]	7212	[6118, 6613]
1147	[2140, 2141]	3169	[5029, 5030]	5191	[453, 1726]	7213	[6125, 7920]
1148	[2142, 2143]	3170	[2450, 5031]	5192	[6936, 4869]	7214	[5388, 1896]
1149	[2144, 2145]	3171	[5032, 5033]	5193	[6937, 1267]	7215	[2850, 7966]
1150	[2146, 2147]	3172	[5034, 5035]	5194	[6938, 310]	7216	[2250, 575]
1151	[2148, 2149]	3173	[5036, 5037]	5195	[6939, 3199]	7217	[649, 1885]
1152	[206, 2150]	3174	[2740, 2397]	5196	[6940, 4754]	7218	[6650, 733]
1153	[1971, 2151]	3175	[5038, 5039]	5197	[6941, 3346]	7219	[5521, 7967]
1154	[2152, 2153]	3176	[3029, 5040]	5198	[6942, 1127]	7220	[5445, 6470]
1155	[2154, 2155]	3177	[5041, 5042]	5199	[1176, 1325]	7221	[6356, 7962]
1156	[708, 2156]	3178	[5043, 2695]	5200	[4886, 6943]	7222	[5172, 6529]
1157	[2157, 2158]	3179	[2734, 5044]	5201	[6944, 6945]	7223	[6267, 7968]
1158	[2159, 2160]	3180	[5045, 604]	5202	[6946, 6947]	7224	[800, 7969]
1159	[2161, 2162]	3181	[5046, 5047]	5203	[3405, 4832]	7225	[6480, 500]
1160	[2163, 2164]	3182	[597, 5048]	5204	[6948, 4937]	7226	[6569, 7970]

1161	[2165, 2166]	3183	[5049, 2677]	5205	[6901, 6898]	7227	[2595, 6325]
1162	[2167, 2168]	3184	[798, 5050]	5206	[3594, 6949]	7228	[6762, 2026]
1163	[2169, 2170]	3185	[2629, 2165]	5207	[3799, 1767]	7229	[2081, 5950]
1164	[2171, 1959]	3186	[5051, 3010]	5208	[1450, 4059]	7230	[5854, 6077]
1165	[2172, 2173]	3187	[5052, 3132]	5209	[6950, 4130]	7231	[7971, 5916]
1166	[2174, 2175]	3188	[5053, 5054]	5210	[4549, 6951]	7232	[7914, 2358]
1167	[2176, 2177]	3189	[5055, 173]	5211	[353, 6952]	7233	[6672, 7972]
1168	[1947, 2178]	3190	[1862, 1857]	5212	[4606, 4133]	7234	[6700, 5261]
1169	[2179, 2180]	3191	[5056, 5057]	5213	[5000, 6853]	7235	[7973, 6452]
1170	[2181, 2182]	3192	[5058, 2714]	5214	[4195, 6950]	7236	[5234, 2865]
1171	[2133, 2183]	3193	[534, 5059]	5215	[1631, 6953]	7237	[7974, 7975]
1172	[2184, 2185]	3194	[5060, 5061]	5216	[4645, 4243]	7238	[7853, 6684]
1173	[2186, 2187]	3195	[5062, 5063]	5217	[4272, 6954]	7239	[7976, 6535]
1174	[2188, 2189]	3196	[503, 5064]	5218	[3901, 4935]	7240	[2411, 5811]
1175	[232, 2190]	3197	[5065, 5066]	5219	[6955, 3643]	7241	[6702, 6599]
1176	[2191, 2192]	3198	[5067, 663]	5220	[3624, 6956]	7242	[5308, 5684]
1177	[2193, 948]	3199	[1932, 881]	5221	[6957, 6904]	7243	[568, 2710]
1178	[2194, 2195]	3200	[5068, 5069]	5222	[3663, 6958]	7244	[5236, 7866]
1179	[2196, 2197]	3201	[5070, 5071]	5223	[1611, 4475]	7245	[7977, 2387]
1180	[2198, 2199]	3202	[5072, 5073]	5224	[4177, 6959]	7246	[7882, 7978]
1181	[2200, 2201]	3203	[5074, 5075]	5225	[6960, 6961]	7247	[7903, 2611]
1182	[2057, 2202]	3204	[5076, 5077]	5226	[6920, 3319]	7248	[6020, 7825]
1183	[2203, 2204]	3205	[628, 704]	5227	[6962, 21]	7249	[7979, 7980]
1184	[581, 2205]	3206	[132, 2599]	5228	[6963, 6964]	7250	[178, 7974]
1185	[2206, 191]	3207	[5078, 5079]	5229	[6965, 6795]	7251	[7876, 2083]
1186	[2207, 2208]	3208	[2309, 5080]	5230	[6966, 959]	7252	[188, 6001]
1187	[2209, 2210]	3209	[5081, 5082]	5231	[4966, 6967]	7253	[7981, 6293]
1188	[2211, 2212]	3210	[5083, 5084]	5232	[3592, 6968]	7254	[7779, 5284]
1189	[2213, 2214]	3211	[5085, 5065]	5233	[6969, 6824]	7255	[7982, 5782]
1190	[2215, 2216]	3212	[5086, 5087]	5234	[6798, 6970]	7256	[1865, 2217]
1191	[2217, 2218]	3213	[5088, 5089]	5235	[6971, 4780]	7257	[7957, 5347]
1192	[2219, 711]	3214	[5090, 5091]	5236	[3563, 4294]	7258	[2430, 7816]
1193	[2220, 2221]	3215	[5092, 5093]	5237	[6972, 4797]	7259	[5326, 7983]
1194	[2222, 2223]	3216	[5094, 2188]	5238	[24, 995]	7260	[6669, 2094]
1195	[2224, 566]	3217	[5095, 11]	5239	[6958, 4476]	7261	[2489, 748]
1196	[2225, 940]	3218	[5096, 1906]	5240	[6973, 3655]	7262	[7951, 3005]
1197	[2226, 2227]	3219	[2139, 135]	5241	[6826, 6974]	7263	[3069, 7897]
1198	[2228, 2229]	3220	[5097, 5098]	5242	[1607, 483]	7264	[7984, 6385]
1199	[2230, 2231]	3221	[5099, 5100]	5243	[4581, 1580]	7265	[2967, 7985]
1200	[2232, 895]	3222	[5101, 554]	5244	[6975, 4979]	7266	[2646, 7883]
1201	[2233, 2234]	3223	[5102, 556]	5245	[428, 3249]	7267	[6597, 7949]
1202	[2235, 2236]	3224	[218, 5103]	5246	[6976, 6977]	7268	[7937, 6727]
1203	[2237, 2238]	3225	[2030, 5104]	5247	[3642, 6978]	7269	[7907, 6548]
1204	[2239, 2240]	3226	[762, 5105]	5248	[6979, 6980]	7270	[7986, 7846]

1205	[2241, 2242]	3227	[5106, 5107]	5249	[6981, 1669]	7271	[7947, 5401]
1206	[2243, 2244]	3228	[668, 527]	5250	[6886, 4815]	7272	[5409, 5715]
1207	[2245, 2246]	3229	[662, 918]	5251	[6982, 4412]	7273	[2788, 5081]
1208	[2247, 2248]	3230	[5108, 5109]	5252	[4516, 4452]	7274	[5982, 8]
1209	[2249, 2250]	3231	[5110, 2561]	5253	[6785, 1696]	7275	[6428, 2085]
1210	[2251, 2252]	3232	[5111, 5112]	5254	[3903, 6983]	7276	[6518, 6606]
1211	[705, 2253]	3233	[5113, 5114]	5255	[4693, 6984]	7277	[6706, 7954]
1212	[505, 2254]	3234	[5115, 5116]	5256	[6822, 6985]	7278	[5398, 2529]
1213	[2255, 2256]	3235	[5117, 632]	5257	[6986, 6987]	7279	[7987, 5610]
1214	[2257, 2258]	3236	[5118, 5119]	5258	[6988, 4265]	7280	[2761, 2905]
1215	[2259, 2260]	3237	[5120, 5121]	5259	[6989, 1467]	7281	[5048, 7987]
1216	[939, 2261]	3238	[5122, 2910]	5260	[6990, 67]	7282	[6076, 1840]
1217	[2262, 2263]	3239	[5123, 5124]	5261	[4390, 6991]	7283	[5885, 6010]
1218	[2264, 2265]	3240	[5125, 1975]	5262	[6992, 4731]	7284	[7899, 5343]
1219	[2266, 851]	3241	[5126, 2130]	5263	[6993, 4997]	7285	[2315, 7988]
1220	[2267, 2268]	3242	[5127, 5128]	5264	[6994, 6995]	7286	[5664, 7909]
1221	[2269, 2270]	3243	[5129, 5130]	5265	[6996, 6997]	7287	[2000, 3062]
1222	[2121, 2271]	3244	[1925, 2557]	5266	[6998, 6999]	7288	[5807, 7789]
1223	[2272, 876]	3245	[5131, 5132]	5267	[3327, 7000]	7289	[6749, 6693]
1224	[2153, 878]	3246	[5133, 946]	5268	[7001, 6994]	7290	[6740, 3028]
1225	[2273, 2274]	3247	[5134, 2374]	5269	[1672, 4652]	7291	[7989, 7856]
1226	[2275, 2276]	3248	[2091, 545]	5270	[7002, 6927]	7292	[5158, 7990]
1227	[2277, 2278]	3249	[5135, 5136]	5271	[1101, 443]	7293	[2059, 6573]
1228	[2279, 2280]	3250	[834, 5137]	5272	[4141, 6887]	7294	[5028, 7952]
1229	[1939, 2281]	3251	[5138, 5139]	5273	[3391, 3648]	7295	[7809, 6739]
1230	[2282, 2174]	3252	[899, 5140]	5274	[4358, 7003]	7296	[7966, 7991]
1231	[2104, 2283]	3253	[5141, 5142]	5275	[7004, 4554]	7297	[7992, 6062]
1232	[2284, 2124]	3254	[5143, 670]	5276	[1020, 1616]	7298	[2336, 7993]
1233	[2285, 2286]	3255	[5144, 5145]	5277	[4847, 6850]	7299	[7988, 2768]
1234	[718, 2287]	3256	[1955, 2537]	5278	[7005, 7006]	7300	[6282, 6230]
1235	[2288, 2289]	3257	[5146, 2867]	5279	[7007, 7008]	7301	[6731, 6182]
1236	[2290, 2291]	3258	[5147, 3033]	5280	[1748, 7009]	7302	[5428, 7790]
1237	[2292, 2273]	3259	[5148, 5149]	5281	[1445, 1591]	7303	[7994, 6132]
1238	[2293, 2294]	3260	[5150, 2014]	5282	[7010, 6875]	7304	[5472, 6391]
1239	[2295, 2296]	3261	[495, 721]	5283	[7011, 4109]	7305	[2767, 2756]
1240	[616, 2297]	3262	[5151, 5152]	5284	[1394, 3392]	7306	[5665, 7981]
1241	[2298, 1868]	3263	[5153, 5154]	5285	[7012, 4864]	7307	[2467, 5375]
1242	[2299, 2300]	3264	[5155, 5156]	5286	[7013, 4637]	7308	[6631, 5873]
1243	[2301, 2302]	3265	[631, 2923]	5287	[4570, 1142]	7309	[2002, 7995]
1244	[2303, 949]	3266	[2403, 2722]	5288	[7014, 4882]	7310	[6630, 6039]
1245	[2304, 2305]	3267	[2897, 5157]	5289	[3740, 3911]	7311	[5997, 2539]
1246	[2306, 2307]	3268	[2391, 5158]	5290	[7015, 23]	7312	[2254, 5522]
1247	[2308, 2309]	3269	[5159, 2049]	5291	[4747, 3571]	7313	[5793, 6119]
1248	[2195, 168]	3270	[5077, 5045]	5292	[3929, 1014]	7314	[7875, 1822]

1249	[2310, 2311]	3271	[5160, 5161]	5293	[7016, 4012]	7315	[7880, 6316]
1250	[2312, 2313]	3272	[5162, 2958]	5294	[6812, 1125]	7316	[2997, 6191]
1251	[2314, 2315]	3273	[5163, 5164]	5295	[1095, 7017]	7317	[6738, 7817]
1252	[1873, 2316]	3274	[5165, 5166]	5296	[3459, 1327]	7318	[7996, 5912]
1253	[2317, 2318]	3275	[5167, 5168]	5297	[7018, 1484]	7319	[7877, 6759]
1254	[2048, 2319]	3276	[578, 5169]	5298	[4809, 7019]	7320	[6718, 5464]
1255	[2320, 2321]	3277	[5170, 5171]	5299	[3887, 7020]	7321	[5737, 7939]
1256	[2322, 2323]	3278	[56, 5172]	5300	[3889, 1763]	7322	[7804, 594]
1257	[2324, 185]	3279	[1804, 5173]	5301	[4101, 3976]	7323	[5213, 811]
1258	[2325, 2326]	3280	[5174, 5175]	5302	[7021, 7022]	7324	[5685, 7997]
1259	[2327, 2328]	3281	[5176, 5177]	5303	[7023, 4931]	7325	[5248, 7979]
1260	[2329, 2330]	3282	[5035, 2224]	5304	[7024, 4373]	7326	[6292, 2851]
1261	[2331, 2332]	3283	[5178, 5179]	5305	[6945, 4853]	7327	[7842, 7826]
1262	[2333, 2334]	3284	[2253, 891]	5306	[7025, 4854]	7328	[5954, 6405]
1263	[2335, 2336]	3285	[5180, 5181]	5307	[3524, 7026]	7329	[6628, 855]
1264	[2337, 2338]	3286	[5182, 5183]	5308	[4117, 7027]	7330	[6223, 6309]
1265	[2339, 2340]	3287	[5184, 5185]	5309	[7028, 7029]	7331	[7975, 706]
1266	[2341, 2342]	3288	[2784, 5186]	5310	[7030, 7031]	7332	[7864, 7998]
1267	[2343, 2344]	3289	[2786, 5187]	5311	[7032, 7033]	7333	[5485, 5808]
1268	[1846, 2345]	3290	[5188, 2484]	5312	[3510, 7034]	7334	[7960, 7774]
1269	[2346, 2347]	3291	[5189, 5190]	5313	[1328, 7035]	7335	[7999, 8000]
1270	[1854, 2348]	3292	[5191, 5192]	5314	[7036, 1111]	7336	[2817, 8001]
1271	[2349, 2350]	3293	[2075, 5193]	5315	[7037, 3753]	7337	[6236, 7895]
1272	[2351, 2352]	3294	[5194, 5195]	5316	[7038, 7039]	7338	[6542, 6348]
1273	[2353, 2354]	3295	[5196, 5197]	5317	[7040, 7041]	7339	[8002, 5165]
1274	[2355, 2356]	3296	[2820, 2293]	5318	[7042, 4860]	7340	[5707, 8003]
1275	[2357, 1876]	3297	[2522, 2613]	5319	[374, 7043]	7341	[6146, 5839]
1276	[2358, 1887]	3298	[5198, 5199]	5320	[3972, 7044]	7342	[5794, 5083]
1277	[2359, 2360]	3299	[5200, 5201]	5321	[7045, 3442]	7343	[8004, 5987]
1278	[673, 2361]	3300	[2877, 5202]	5322	[7046, 7047]	7344	[8005, 8006]
1279	[693, 2362]	3301	[5203, 5204]	5323	[7048, 7049]	7345	[2748, 7815]
1280	[2363, 2364]	3302	[880, 5205]	5324	[4734, 7050]	7346	[6566, 6733]
1281	[2365, 2366]	3303	[2202, 5206]	5325	[7000, 7051]	7347	[7969, 1803]
1282	[2367, 1991]	3304	[5207, 943]	5326	[1723, 3805]	7348	[6592, 6246]
1283	[2368, 2369]	3305	[5208, 5209]	5327	[3977, 7052]	7349	[5710, 8007]
1284	[2370, 2371]	3306	[5210, 2072]	5328	[4996, 3672]	7350	[605, 2684]
1285	[2372, 2373]	3307	[180, 5211]	5329	[4315, 4149]	7351	[6070, 654]
1286	[2374, 2375]	3308	[5212, 5213]	5330	[4964, 6878]	7352	[7906, 6473]
1287	[952, 684]	3309	[5214, 5208]	5331	[7053, 6880]	7353	[7991, 2580]
1288	[2376, 2377]	3310	[2501, 5215]	5332	[7054, 4128]	7354	[5059, 8008]
1289	[2378, 2379]	3311	[2377, 5123]	5333	[1499, 4247]	7355	[6679, 2171]
1290	[2380, 2381]	3312	[2811, 5216]	5334	[7055, 7056]	7356	[812, 6682]
1291	[2382, 2383]	3313	[5217, 5218]	5335	[3704, 7057]	7357	[2019, 6451]
1292	[1986, 2384]	3314	[5054, 742]	5336	[7058, 7024]	7358	[7847, 1910]

1293	[2385, 2386]	3315	[1788, 5219]	5337	[4541, 7059]	7359	[7921, 6661]
1294	[2387, 698]	3316	[5220, 5221]	5338	[4812, 3683]	7360	[2976, 5695]
1295	[2388, 2389]	3317	[5222, 5223]	5339	[3552, 1265]	7361	[7894, 5373]
1296	[2390, 2391]	3318	[5224, 3046]	5340	[6792, 3750]	7362	[6578, 2494]
1297	[2392, 537]	3319	[5225, 5068]	5341	[4973, 4389]	7363	[8009, 6232]
1298	[2393, 2394]	3320	[5226, 5227]	5342	[7060, 7061]	7364	[230, 8009]
1299	[1826, 629]	3321	[848, 5228]	5343	[4578, 7062]	7365	[2549, 2647]
1300	[2395, 2396]	3322	[5229, 5230]	5344	[7063, 7064]	7366	[5239, 2669]
1301	[2397, 2398]	3323	[2286, 5231]	5345	[7065, 1116]	7367	[6233, 2652]
1302	[2399, 2400]	3324	[2887, 533]	5346	[7066, 961]	7368	[6364, 215]
1303	[246, 2401]	3325	[2890, 506]	5347	[3211, 7067]	7369	[6037, 2264]
1304	[2402, 2403]	3326	[5232, 5233]	5348	[3762, 4585]	7370	[8010, 5159]
1305	[2404, 2405]	3327	[2289, 2648]	5349	[7068, 4665]	7371	[8000, 2257]
1306	[2406, 2346]	3328	[234, 5234]	5350	[4777, 7069]	7372	[8011, 8012]
1307	[2407, 2408]	3329	[5091, 5143]	5351	[7070, 3326]	7373	[2189, 3102]
1308	[1850, 2409]	3330	[5235, 5236]	5352	[3587, 7071]	7374	[747, 5902]
1309	[2410, 2411]	3331	[5237, 885]	5353	[4922, 7072]	7375	[2069, 5283]
1310	[2412, 2413]	3332	[3002, 5238]	5354	[4919, 3735]	7376	[6359, 5364]
1311	[2414, 2415]	3333	[5223, 5239]	5355	[1257, 4926]	7377	[6455, 617]
1312	[2361, 2416]	3334	[5240, 2985]	5356	[7073, 4792]	7378	[5803, 6072]
1313	[249, 2417]	3335	[5241, 2654]	5357	[3531, 3446]	7379	[6414, 8005]
1314	[2418, 2419]	3336	[5242, 2925]	5358	[7074, 7075]	7380	[6752, 2547]
1315	[2420, 2421]	3337	[5243, 3007]	5359	[7076, 4525]	7381	[1953, 7938]
1316	[2422, 619]	3338	[5244, 5245]	5360	[6987, 7077]	7382	[5823, 5889]
1317	[620, 2237]	3339	[5193, 5246]	5361	[4828, 3528]	7383	[6059, 6558]
1318	[2423, 2239]	3340	[5247, 5248]	5362	[7078, 6905]	7384	[2156, 5237]
1319	[2424, 2425]	3341	[5249, 5250]	5363	[3474, 3991]	7385	[7934, 5099]
1320	[2426, 2427]	3342	[5251, 5252]	5364	[1735, 7079]	7386	[6448, 6562]
1321	[2428, 2429]	3343	[5253, 5254]	5365	[7080, 7081]	7387	[1915, 6754]
1322	[1897, 2430]	3344	[2858, 5255]	5366	[7082, 7083]	7388	[8013, 8014]
1323	[2431, 2432]	3345	[5075, 5256]	5367	[7084, 3538]	7389	[8015, 746]
1324	[2433, 2434]	3346	[5257, 5258]	5368	[7085, 7086]	7390	[2180, 911]
1325	[2190, 2435]	3347	[5259, 5260]	5369	[4624, 7048]	7391	[808, 2685]
1326	[2436, 2437]	3348	[5261, 5262]	5370	[459, 7087]	7392	[5057, 6761]
1327	[240, 2438]	3349	[5263, 5264]	5371	[7088, 7089]	7393	[5474, 2617]
1328	[867, 2439]	3350	[2027, 5265]	5372	[4473, 7090]	7394	[5023, 2412]
1329	[2440, 2441]	3351	[5266, 5267]	5373	[7034, 7091]	7395	[6206, 2847]
1330	[2442, 2443]	3352	[926, 5268]	5374	[7092, 4375]	7396	[5458, 8016]
1331	[2444, 2445]	3353	[5269, 1926]	5375	[315, 1239]	7397	[2015, 1968]
1332	[2446, 149]	3354	[5270, 5271]	5376	[3669, 7093]	7398	[6417, 3080]
1333	[2447, 1889]	3355	[5272, 5273]	5377	[4957, 291]	7399	[6123, 7984]
1334	[550, 2448]	3356	[5274, 5243]	5378	[7094, 7095]	7400	[5779, 5153]
1335	[2449, 2450]	3357	[526, 5275]	5379	[7096, 3251]	7401	[2065, 6629]
1336	[2451, 2452]	3358	[5276, 5277]	5380	[7067, 4062]	7402	[7900, 849]

1337	[2453, 2454]	3359	[2838, 5278]	5381	[7097, 4064]	7403	[7948, 1922]
1338	[212, 2455]	3360	[5279, 5280]	5382	[4512, 4299]	7404	[8017, 6310]
1339	[2456, 2457]	3361	[5281, 5282]	5383	[7098, 7099]	7405	[5114, 915]
1340	[2458, 2459]	3362	[5283, 2578]	5384	[4775, 7100]	7406	[2056, 7964]
1341	[2460, 2138]	3363	[5284, 5285]	5385	[6931, 7101]	7407	[5919, 7982]
1342	[2461, 2462]	3364	[5286, 32]	5386	[7102, 1743]	7408	[6093, 8004]
1343	[2238, 2463]	3365	[5287, 5288]	5387	[4207, 7073]	7409	[6615, 5787]
1344	[2464, 2465]	3366	[5289, 5290]	5388	[7103, 7076]	7410	[2246, 5534]
1345	[2466, 2467]	3367	[5291, 5292]	5389	[1526, 7104]	7411	[5744, 5580]
1346	[2468, 2245]	3368	[5293, 5294]	5390	[6849, 4461]	7412	[1957, 8018]
1347	[1875, 2469]	3369	[570, 5295]	5391	[1779, 253]	7413	[6213, 495]
1348	[2470, 2060]	3370	[2509, 1972]	5392	[472, 3798]	7414	[7905, 5418]
1349	[2471, 2472]	3371	[5296, 5297]	5393	[4798, 6912]	7415	[7855, 6104]
1350	[760, 2473]	3372	[2421, 5298]	5394	[7105, 1223]	7416	[2749, 6052]
1351	[2474, 1819]	3373	[5299, 5300]	5395	[7106, 3353]	7417	[5185, 6725]
1352	[2475, 2476]	3374	[1967, 5301]	5396	[4051, 7107]	7418	[2868, 8015]
1353	[2477, 2478]	3375	[5302, 5303]	5397	[1148, 3247]	7419	[7923, 7848]
1354	[2479, 2480]	3376	[5304, 1786]	5398	[3626, 7108]	7420	[3058, 5092]
1355	[877, 2481]	3377	[5305, 5306]	5399	[7109, 7110]	7421	[7995, 8019]
1356	[2482, 2483]	3378	[5307, 5308]	5400	[110, 4206]	7422	[8020, 5914]
1357	[2484, 2485]	3379	[5309, 929]	5401	[7111, 7112]	7423	[6169, 8021]
1358	[2486, 2487]	3380	[5310, 5311]	5402	[7113, 7114]	7424	[8022, 2146]
1359	[2488, 2489]	3381	[5312, 1797]	5403	[1208, 4667]	7425	[6355, 8017]
1360	[2490, 2491]	3382	[5313, 5314]	5404	[7115, 4771]	7426	[3123, 8023]
1361	[2492, 2493]	3383	[5315, 2159]	5405	[7116, 1639]	7427	[2972, 2497]
1362	[2494, 2495]	3384	[5316, 5317]	5406	[4514, 3553]	7428	[2028, 6017]
1363	[2496, 2172]	3385	[5318, 5319]	5407	[7117, 1177]	7429	[7837, 640]
1364	[2497, 2498]	3386	[5320, 5321]	5408	[1299, 4099]	7430	[5872, 5062]
1365	[2499, 2349]	3387	[5031, 5322]	5409	[6891, 4808]	7431	[6450, 2553]
1366	[2500, 2501]	3388	[2530, 5323]	5410	[7118, 7055]	7432	[6245, 2298]
1367	[2502, 2503]	3389	[5324, 2152]	5411	[1558, 7119]	7433	[7955, 5651]
1368	[2504, 2505]	3390	[5325, 5326]	5412	[4722, 1730]	7434	[820, 5921]
1369	[2192, 2506]	3391	[5327, 2869]	5413	[4951, 7120]	7435	[7983, 2191]
1370	[2265, 2507]	3392	[5328, 189]	5414	[7121, 6923]	7436	[6491, 3105]
1371	[2508, 2509]	3393	[2546, 5329]	5415	[4082, 7122]	7437	[1936, 8024]
1372	[1785, 2510]	3394	[5330, 5331]	5416	[992, 3360]	7438	[6443, 2755]
1373	[2511, 2512]	3395	[5332, 5333]	5417	[6856, 999]	7439	[804, 8025]
1374	[794, 2513]	3396	[5334, 5335]	5418	[7123, 4613]	7440	[5998, 775]
1375	[2514, 2515]	3397	[2236, 41]	5419	[4385, 7124]	7441	[2961, 7806]
1376	[2516, 2517]	3398	[5336, 5337]	5420	[6991, 7125]	7442	[6333, 2590]
1377	[2518, 2519]	3399	[2506, 5338]	5421	[265, 281]	7443	[2204, 785]
1378	[2520, 2428]	3400	[5339, 5340]	5422	[7126, 4139]	7444	[8026, 5174]
1379	[2521, 2522]	3401	[5341, 5342]	5423	[4555, 3660]	7445	[2373, 2482]
1380	[2523, 2524]	3402	[5343, 5344]	5424	[4500, 7030]	7446	[6618, 2225]

1381	[2525, 2526]	3403	[5345, 5346]	5425	[7127, 4339]	7447	[8025, 2712]
1382	[2416, 642]	3404	[5347, 5348]	5426	[4918, 7128]	7448	[7953, 6581]
1383	[2527, 2528]	3405	[5349, 5350]	5427	[7129, 7130]	7449	[6392, 5270]
1384	[2529, 2530]	3406	[5288, 5351]	5428	[4804, 7131]	7450	[7958, 6319]
1385	[2531, 2532]	3407	[722, 213]	5429	[7132, 7133]	7451	[3016, 8027]
1386	[2533, 217]	3408	[5352, 2903]	5430	[7134, 1595]	7452	[6048, 7924]
1387	[2534, 2535]	3409	[3067, 5353]	5431	[7017, 1521]	7453	[7910, 6563]
1388	[540, 2536]	3410	[3063, 1979]	5432	[4191, 7135]	7454	[6299, 8028]
1389	[2537, 2538]	3411	[3065, 5354]	5433	[3177, 3881]	7455	[2417, 8029]
1390	[2539, 2540]	3412	[660, 5355]	5434	[7136, 7137]	7456	[7881, 2673]
1391	[2223, 841]	3413	[5356, 5357]	5435	[3501, 4749]	7457	[8030, 5756]
1392	[2541, 2542]	3414	[5358, 5359]	5436	[4332, 7138]	7458	[5510, 6534]
1393	[2543, 2544]	3415	[1863, 5360]	5437	[3175, 4795]	7459	[2164, 6747]
1394	[2545, 2546]	3416	[595, 5217]	5438	[7139, 7140]	7460	[5563, 3071]
1395	[2547, 690]	3417	[5216, 5361]	5439	[4546, 6940]	7461	[734, 5289]
1396	[2548, 2549]	3418	[5362, 5363]	5440	[7141, 6897]	7462	[2940, 3111]
1397	[1899, 2550]	3419	[5364, 5365]	5441	[3880, 285]	7463	[7929, 2142]
1398	[1913, 2551]	3420	[5366, 529]	5442	[4046, 7142]	7464	[8021, 7925]
1399	[2552, 567]	3421	[2915, 5367]	5443	[6871, 1589]	7465	[8016, 8031]
1400	[2553, 2554]	3422	[5368, 5369]	5444	[7143, 7144]	7466	[6507, 6212]
1401	[2555, 2556]	3423	[5370, 5371]	5445	[960, 7145]	7467	[8018, 7862]
1402	[2557, 2558]	3424	[1842, 5372]	5446	[4171, 7146]	7468	[7959, 6666]
1403	[2559, 2560]	3425	[5373, 5374]	5447	[6954, 262]	7469	[2287, 5660]
1404	[2561, 2562]	3426	[5375, 5376]	5448	[4596, 7147]	7470	[2681, 5313]
1405	[2563, 2564]	3427	[2696, 5377]	5449	[7148, 3378]	7471	[5319, 5316]
1406	[2565, 2566]	3428	[2633, 2012]	5450	[7149, 7150]	7472	[5079, 3027]
1407	[2567, 2568]	3429	[2443, 938]	5451	[1166, 1290]	7473	[6031, 8013]
1408	[2569, 2570]	3430	[5378, 5379]	5452	[7151, 1428]	7474	[6073, 2118]
1409	[2571, 872]	3431	[5380, 5381]	5453	[7009, 7152]	7475	[5625, 6729]
1410	[2572, 2573]	3432	[5382, 531]	5454	[321, 3726]	7476	[6098, 61]
1411	[2574, 2575]	3433	[5383, 5384]	5455	[4630, 7153]	7477	[5562, 2184]
1412	[2576, 2577]	3434	[5245, 3121]	5456	[7154, 17]	7478	[8028, 2604]
1413	[2578, 2579]	3435	[5385, 1929]	5457	[1200, 7155]	7479	[5104, 7840]
1414	[2580, 2581]	3436	[5386, 5387]	5458	[7156, 7157]	7480	[1996, 5607]
1415	[2582, 2583]	3437	[1988, 5388]	5459	[7158, 7159]	7481	[6457, 6190]
1416	[2584, 2585]	3438	[5389, 5390]	5460	[7160, 435]	7482	[3044, 7935]
1417	[2586, 2587]	3439	[2711, 5391]	5461	[7161, 6909]	7483	[5942, 3109]
1418	[2588, 2527]	3440	[5392, 2186]	5462	[4750, 1561]	7484	[6407, 6408]
1419	[2131, 2589]	3441	[5204, 5393]	5463	[4335, 4743]	7485	[5363, 5160]
1420	[2590, 2591]	3442	[2994, 5394]	5464	[7162, 3825]	7486	[2115, 5060]
1421	[2592, 2593]	3443	[2415, 744]	5465	[7163, 6986]	7487	[6189, 5129]
1422	[2594, 2595]	3444	[5395, 5396]	5466	[7164, 7165]	7488	[6217, 5962]
1423	[2360, 2596]	3445	[5397, 5398]	5467	[7166, 419]	7489	[5360, 7996]
1424	[2597, 2598]	3446	[5399, 3134]	5468	[7167, 7168]	7490	[6717, 6091]

1425	[2599, 2600]	3447	[2683, 1985]	5469	[7169, 7170]	7491	[681, 5407]
1426	[2601, 2602]	3448	[1934, 5400]	5470	[3194, 7171]	7492	[6353, 7854]
1427	[1886, 2603]	3449	[5401, 5402]	5471	[4031, 3181]	7493	[6633, 8032]
1428	[2604, 2605]	3450	[552, 5403]	5472	[7172, 6965]	7494	[6066, 6432]
1429	[2606, 2607]	3451	[5404, 5405]	5473	[7173, 4269]	7495	[583, 5055]
1430	[2149, 2608]	3452	[5393, 5196]	5474	[7174, 4415]	7496	[2644, 5450]
1431	[2609, 2610]	3453	[2703, 5406]	5475	[7175, 7176]	7497	[2493, 2109]
1432	[2611, 2612]	3454	[5407, 5408]	5476	[6834, 7177]	7498	[6458, 8033]
1433	[2613, 2614]	3455	[5400, 2471]	5477	[3401, 1149]	7499	[7873, 5287]
1434	[2472, 2031]	3456	[5145, 5409]	5478	[3680, 7178]	7500	[6758, 7971]
1435	[2615, 2616]	3457	[2550, 195]	5479	[4034, 7179]	7501	[6553, 8034]
1436	[2617, 2618]	3458	[5410, 5411]	5480	[1429, 7180]	7502	[5560, 2314]
1437	[2619, 2504]	3459	[5412, 2230]	5481	[7181, 6777]	7503	[6517, 6649]
1438	[2620, 2404]	3460	[3095, 5413]	5482	[7182, 4249]	7504	[7872, 2251]
1439	[2621, 2622]	3461	[509, 5414]	5483	[4009, 4761]	7505	[5177, 6214]
1440	[2623, 2624]	3462	[5415, 5416]	5484	[7183, 3813]	7506	[8029, 2826]
1441	[2625, 927]	3463	[5417, 5232]	5485	[7184, 7116]	7507	[5403, 2830]
1442	[2626, 2627]	3464	[768, 2548]	5486	[3634, 3342]	7508	[5489, 7945]
1443	[2628, 2629]	3465	[5418, 5419]	5487	[7047, 7066]	7509	[8027, 2477]
1444	[2630, 2631]	3466	[5262, 5420]	5488	[7133, 4275]	7510	[7832, 6674]
1445	[2632, 2633]	3467	[2229, 5421]	5489	[3955, 4850]	7511	[8014, 2301]
1446	[2268, 2634]	3468	[5422, 2064]	5490	[4576, 3861]	7512	[5652, 5473]
1447	[2635, 2636]	3469	[2375, 2392]	5491	[1583, 3534]	7513	[7993, 6381]
1448	[2637, 2638]	3470	[5423, 5424]	5492	[7185, 7186]	7514	[6194, 8035]
1449	[2639, 2640]	3471	[2280, 5425]	5493	[442, 4202]	7515	[5267, 6525]
1450	[2641, 2642]	3472	[5426, 5328]	5494	[3647, 7187]	7516	[1982, 7977]
1451	[2643, 2211]	3473	[5427, 5428]	5495	[3964, 7188]	7517	[816, 6461]
1452	[910, 2644]	3474	[5080, 51]	5496	[4409, 1245]	7518	[6320, 5857]
1453	[2645, 2646]	3475	[2160, 5429]	5497	[7189, 1469]	7519	[6016, 5929]
1454	[2647, 2333]	3476	[5430, 3060]	5498	[1297, 4538]	7520	[182, 860]
1455	[2648, 2649]	3477	[5431, 801]	5499	[7190, 7191]	7521	[2579, 5327]
1456	[2650, 2651]	3478	[5432, 5433]	5500	[3787, 7192]	7522	[6317, 3096]
1457	[622, 2267]	3479	[2544, 2978]	5501	[7193, 4106]	7523	[2485, 8002]
1458	[2652, 2653]	3480	[950, 2907]	5502	[7194, 7195]	7524	[5376, 650]
1459	[2654, 2655]	3481	[5434, 2134]	5503	[7196, 3429]	7525	[6459, 2731]
1460	[2260, 2656]	3482	[5435, 5436]	5504	[3924, 7197]	7526	[8023, 5074]
1461	[2657, 2658]	3483	[1841, 5437]	5505	[7198, 1570]	7527	[936, 5475]
1462	[2659, 2660]	3484	[2666, 5438]	5506	[3262, 7199]	7528	[5506, 6509]
1463	[2661, 2662]	3485	[5439, 5440]	5507	[3975, 6859]	7529	[8036, 6188]
1464	[2663, 2664]	3486	[2244, 5441]	5508	[4129, 6861]	7530	[2700, 6676]
1465	[2665, 2666]	3487	[5442, 5443]	5509	[3581, 7200]	7531	[8037, 6173]
1466	[2667, 2668]	3488	[5444, 5445]	5510	[7201, 7190]	7532	[6604, 6215]
1467	[2669, 2670]	3489	[553, 5446]	5511	[6852, 991]	7533	[6349, 3038]
1468	[904, 2671]	3490	[5218, 5447]	5512	[4563, 7202]	7534	[8038, 5972]

1469	[2672, 2325]	3491	[5448, 5449]	5513	[4936, 4521]	7535	[2670, 2945]
1470	[2673, 2674]	3492	[5136, 2277]	5514	[6788, 7203]	7536	[5843, 5392]
1471	[2675, 2676]	3493	[5450, 2584]	5515	[7204, 477]	7537	[5732, 6080]
1472	[2677, 2621]	3494	[749, 5451]	5516	[7205, 456]	7538	[7940, 7961]
1473	[2678, 2594]	3495	[5452, 2832]	5517	[7206, 7207]	7539	[6027, 543]
1474	[2679, 2680]	3496	[1976, 9]	5518	[4952, 4969]	7540	[6504, 769]
1475	[2603, 2681]	3497	[5453, 5454]	5519	[4666, 7208]	7541	[2765, 6594]
1476	[2682, 2683]	3498	[5455, 5456]	5520	[4462, 7014]	7542	[774, 8022]
1477	[2684, 1963]	3499	[5457, 5458]	5521	[7209, 4611]	7543	[7965, 7911]
1478	[2685, 2686]	3500	[5459, 644]	5522	[1040, 3900]	7544	[5668, 6388]
1479	[2687, 2688]	3501	[2106, 2632]	5523	[3556, 7210]	7545	[1946, 5147]
1480	[2689, 2690]	3502	[5460, 5461]	5524	[7211, 329]	7546	[869, 5150]
1481	[2691, 2692]	3503	[2924, 2574]	5525	[7212, 7213]	7547	[6235, 6486]
1482	[2693, 2694]	3504	[5462, 608]	5526	[4319, 7214]	7548	[5661, 6004]
1483	[2695, 2696]	3505	[5463, 2665]	5527	[6772, 7215]	7549	[242, 2095]
1484	[2697, 2698]	3506	[2483, 2672]	5528	[3271, 3180]	7550	[2318, 3099]
1485	[2699, 2700]	3507	[5464, 5465]	5529	[7216, 4217]	7551	[8039, 6715]
1486	[2302, 2701]	3508	[5466, 5072]	5530	[7217, 3588]	7552	[5633, 5015]
1487	[2702, 2703]	3509	[5467, 3064]	5531	[7218, 7219]	7553	[6751, 6241]
1488	[2704, 2705]	3510	[5468, 763]	5532	[4829, 7220]	7554	[6063, 6587]
1489	[2706, 2707]	3511	[5469, 5470]	5533	[7221, 4677]	7555	[6065, 128]
1490	[2708, 2709]	3512	[5471, 5472]	5534	[7222, 7223]	7556	[6421, 5492]
1491	[238, 2479]	3513	[2902, 5380]	5535	[390, 4508]	7557	[2779, 6085]
1492	[2710, 2711]	3514	[5473, 5474]	5536	[7224, 3827]	7558	[7799, 6704]
1493	[2712, 2713]	3515	[5475, 5325]	5537	[3824, 7225]	7559	[7998, 2458]
1494	[2714, 2715]	3516	[2744, 143]	5538	[6932, 4685]	7560	[6308, 6555]
1495	[2716, 2717]	3517	[5311, 707]	5539	[4586, 1500]	7561	[5584, 3122]
1496	[2718, 2719]	3518	[5476, 5477]	5540	[4893, 4100]	7562	[7871, 6096]
1497	[2720, 2721]	3519	[2803, 5478]	5541	[7199, 7226]	7563	[8040, 5070]
1498	[2722, 2723]	3520	[5479, 5480]	5542	[6951, 4912]	7564	[5777, 5276]
1499	[2503, 2724]	3521	[5416, 2203]	5543	[6813, 4297]	7565	[6199, 7956]
1500	[2168, 2725]	3522	[5481, 5482]	5544	[7227, 7228]	7566	[5451, 6175]
1501	[2726, 2727]	3523	[5483, 5484]	5545	[3858, 4965]	7567	[5688, 5052]
1502	[2728, 2729]	3524	[2540, 5485]	5546	[7229, 7230]	7568	[8, 7916]
1503	[2730, 2103]	3525	[5486, 5487]	5547	[6838, 7040]	7569	[559, 6154]
1504	[2731, 2732]	3526	[5488, 2615]	5548	[461, 7231]	7570	[7890, 6695]
1505	[2733, 2734]	3527	[2300, 5489]	5549	[7075, 7232]	7571	[2906, 7927]
1506	[2735, 2736]	3528	[5490, 5412]	5550	[7233, 7234]	7572	[6584, 6541]
1507	[2737, 2738]	3529	[5179, 2132]	5551	[1382, 7235]	7573	[7884, 7999]
1508	[2739, 2740]	3530	[5491, 2062]	5552	[3716, 385]	7574	[2173, 5844]
1509	[2741, 2742]	3531	[5492, 5467]	5553	[6894, 7236]	7575	[8035, 5647]
1510	[2743, 2744]	3532	[5493, 2241]	5554	[4718, 7237]	7576	[6708, 7814]
1511	[2745, 2746]	3533	[5494, 5495]	5555	[7186, 289]	7577	[2135, 6108]
1512	[2465, 646]	3534	[2859, 5496]	5556	[4203, 7238]	7578	[7819, 6340]

1513	[2747, 2748]	3535	[5497, 5498]	5557	[3464, 3721]	7579	[6577, 8039]
1514	[1808, 2749]	3536	[5149, 5499]	5558	[92, 4603]	7580	[5995, 6698]
1515	[2750, 2751]	3537	[1810, 183]	5559	[7239, 4605]	7581	[8041, 5222]
1516	[2098, 2716]	3538	[5500, 5501]	5560	[4647, 1782]	7582	[8042, 47]
1517	[52, 2752]	3539	[5502, 5503]	5561	[7240, 3793]	7583	[6746, 5720]
1518	[2753, 2754]	3540	[5504, 5505]	5562	[3620, 3795]	7584	[5354, 6644]
1519	[2755, 717]	3541	[1844, 5506]	5563	[6841, 973]	7585	[7844, 5417]
1520	[2756, 229]	3542	[5507, 5508]	5564	[3277, 7241]	7586	[7950, 5898]
1521	[2046, 2757]	3543	[5509, 5510]	5565	[3379, 7242]	7587	[6375, 6593]
1522	[2758, 2759]	3544	[5511, 512]	5566	[6779, 3174]	7588	[5533, 676]
1523	[2760, 2761]	3545	[5512, 5513]	5567	[6863, 6793]	7589	[8043, 7908]
1524	[2762, 2763]	3546	[5514, 1880]	5568	[1460, 4181]	7590	[5597, 8044]
1525	[2764, 2765]	3547	[3083, 2626]	5569	[7243, 1527]	7591	[5429, 6151]
1526	[2766, 2767]	3548	[2717, 5263]	5570	[3736, 4248]	7592	[7978, 7992]
1527	[2768, 2769]	3549	[5515, 5516]	5571	[7244, 3518]	7593	[5381, 2365]
1528	[796, 2770]	3550	[5517, 2343]	5572	[3728, 6832]	7594	[3118, 6365]
1529	[2551, 2771]	3551	[5518, 2181]	5573	[7245, 4094]	7595	[7851, 5922]
1530	[2772, 2773]	3552	[2831, 5519]	5574	[7246, 7247]	7596	[2883, 6527]
1531	[2774, 614]	3553	[5520, 2780]	5575	[4416, 7248]	7597	[8032, 7943]
1532	[738, 2775]	3554	[5199, 2295]	5576	[7249, 1578]	7598	[8006, 5761]
1533	[2776, 2777]	3555	[5030, 5521]	5577	[7250, 7251]	7599	[6165, 5862]
1534	[2778, 2779]	3556	[2909, 2269]	5578	[1036, 7252]	7600	[5211, 6350]
1535	[2780, 153]	3557	[5522, 2657]	5579	[1268, 7253]	7601	[5796, 2552]
1536	[2781, 2782]	3558	[2640, 5523]	5580	[7254, 4687]	7602	[1984, 7792]
1537	[2783, 2784]	3559	[5524, 3048]	5581	[6769, 3666]	7603	[5686, 686]
1538	[2785, 2786]	3560	[5525, 5526]	5582	[7210, 7255]	7604	[48, 2567]
1539	[2787, 2788]	3561	[5139, 579]	5583	[3618, 4981]	7605	[6638, 5200]
1540	[2789, 2790]	3562	[2573, 2760]	5584	[7256, 7257]	7606	[6436, 6678]
1541	[1802, 2331]	3563	[5527, 5094]	5585	[3265, 7258]	7607	[7838, 6643]
1542	[2334, 2791]	3564	[2409, 5528]	5586	[3450, 1347]	7608	[7770, 6596]
1543	[2792, 2080]	3565	[5298, 5529]	5587	[7259, 7260]	7609	[5840, 5041]
1544	[2793, 197]	3566	[5530, 5531]	5588	[7261, 3616]	7610	[6675, 6760]
1545	[2794, 2747]	3567	[5532, 5533]	5589	[7262, 1675]	7611	[5169, 6445]
1546	[2795, 2796]	3568	[5534, 5535]	5590	[7263, 7264]	7612	[7839, 5868]
1547	[2797, 2798]	3569	[5536, 5096]	5591	[6831, 7265]	7613	[5802, 7845]
1548	[2799, 2800]	3570	[171, 3152]	5592	[1560, 3295]	7614	[732, 7886]
1549	[850, 2801]	3571	[5537, 5538]	5593	[3773, 1408]	7615	[2063, 6434]
1550	[2802, 2803]	3572	[5539, 1801]	5594	[1454, 7266]	7616	[7879, 5833]
1551	[2354, 2444]	3573	[5408, 5540]	5595	[309, 7267]	7617	[5132, 8030]
1552	[2804, 2805]	3574	[2344, 5541]	5596	[7268, 7269]	7618	[6608, 5801]
1553	[2806, 2807]	3575	[5215, 5542]	5597	[3791, 7270]	7619	[2942, 7812]
1554	[2808, 2809]	3576	[730, 2855]	5598	[3564, 7240]	7620	[840, 3142]
1555	[2810, 2811]	3577	[518, 3025]	5599	[3566, 6914]	7621	[6757, 674]
1556	[2812, 2813]	3578	[3054, 5543]	5600	[7271, 29]	7622	[5025, 6483]

1557	[2814, 2815]	3579	[5544, 5545]	5601	[7272, 7273]	7623	[6763, 2074]
1558	[2816, 2817]	3580	[5546, 5547]	5602	[4994, 6936]	7624	[5233, 7863]
1559	[2818, 2819]	3581	[60, 5548]	5603	[259, 6938]	7625	[5615, 5291]
1560	[1888, 2820]	3582	[5359, 5549]	5604	[3503, 6998]	7626	[5449, 3036]
1561	[2821, 2822]	3583	[5550, 2914]	5605	[7119, 7229]	7627	[8003, 6158]
1562	[2823, 2739]	3584	[3125, 5551]	5606	[7274, 1632]	7628	[6131, 6298]
1563	[2824, 2825]	3585	[2560, 5086]	5607	[3500, 4318]	7629	[8045, 6171]
1564	[2826, 2827]	3586	[5552, 5553]	5608	[7275, 4126]	7630	[5575, 7802]
1565	[2828, 2829]	3587	[5554, 2816]	5609	[4266, 7276]	7631	[3139, 8046]
1566	[2830, 2831]	3588	[651, 5018]	5610	[7191, 7205]	7632	[7891, 57]
1567	[2832, 2833]	3589	[2982, 2407]	5611	[1291, 7117]	7633	[6087, 8043]
1568	[2834, 2835]	3590	[2988, 5555]	5612	[4897, 7277]	7634	[745, 6449]
1569	[2836, 2837]	3591	[615, 5556]	5613	[4501, 3245]	7635	[5516, 243]
1570	[515, 2838]	3592	[2017, 5557]	5614	[7278, 7126]	7636	[2846, 6024]
1571	[2839, 2840]	3593	[5558, 5559]	5615	[1387, 7127]	7637	[5890, 6609]
1572	[859, 2841]	3594	[2979, 5560]	5616	[7279, 3210]	7638	[6074, 5518]
1573	[2842, 2843]	3595	[5561, 5562]	5617	[4407, 3722]	7639	[7968, 6513]
1574	[2844, 2845]	3596	[5089, 5563]	5618	[998, 4015]	7640	[8033, 6539]
1575	[2040, 2846]	3597	[2291, 5564]	5619	[7280, 4802]	7641	[2338, 813]
1576	[2847, 2848]	3598	[2110, 2989]	5620	[3279, 7281]	7642	[2234, 6144]
1577	[2849, 2850]	3599	[5565, 5566]	5621	[7142, 7282]	7643	[7892, 2466]
1578	[2851, 2852]	3600	[5567, 5034]	5622	[4291, 6892]	7644	[857, 6454]
1579	[2853, 2854]	3601	[5568, 5569]	5623	[1086, 7283]	7645	[7970, 6658]
1580	[2855, 2856]	3602	[5570, 5571]	5624	[7284, 7285]	7646	[2073, 6707]
1581	[2857, 2858]	3603	[5572, 5573]	5625	[4866, 3978]	7647	[2100, 8041]
1582	[2614, 2859]	3604	[908, 2917]	5626	[7178, 7286]	7648	[6728, 2762]
1583	[2860, 2789]	3605	[5574, 5383]	5627	[7287, 4719]	7649	[6181, 592]
1584	[2861, 2862]	3606	[136, 5575]	5628	[7110, 1496]	7650	[7980, 7820]
1585	[2863, 2864]	3607	[2328, 2896]	5629	[6911, 381]	7651	[618, 8042]
1586	[2865, 2866]	3608	[5576, 5577]	5630	[1369, 6848]	7652	[2463, 2793]
1587	[2867, 2868]	3609	[607, 2157]	5631	[7056, 7288]	7653	[2862, 2555]
1588	[2869, 2870]	3610	[5578, 5579]	5632	[4472, 7289]	7654	[2825, 6113]
1589	[2871, 2872]	3611	[5580, 2849]	5633	[7290, 7291]	7655	[5292, 2043]
1590	[14, 2873]	3612	[5581, 5582]	5634	[1413, 4619]	7656	[5396, 8020]
1591	[2874, 2875]	3613	[5583, 5584]	5635	[3738, 7292]	7657	[8034, 7771]
1592	[2876, 2877]	3614	[5585, 5251]	5636	[398, 1545]	7658	[6442, 5435]
1593	[2878, 2879]	3615	[5586, 5587]	5637	[1103, 7293]	7659	[5553, 6694]
1594	[2880, 2881]	3616	[5588, 5589]	5638	[7294, 7295]	7660	[6021, 923]
1595	[2882, 2883]	3617	[2077, 2861]	5639	[7296, 6939]	7661	[6225, 6361]
1596	[2884, 2885]	3618	[2566, 5590]	5640	[7091, 4023]	7662	[6656, 8045]
1597	[2886, 2887]	3619	[158, 5591]	5641	[7297, 6972]	7663	[7769, 5318]
1598	[546, 2888]	3620	[5592, 1864]	5642	[4716, 256]	7664	[2050, 7830]
1599	[2889, 2890]	3621	[5593, 5594]	5643	[6865, 258]	7665	[8047, 8048]
1600	[2891, 2679]	3622	[5595, 2921]	5644	[4720, 3305]	7666	[2759, 5324]

1601	[2892, 2893]	3623	[5596, 5597]	5645	[1529, 7298]	7667	[2916, 8040]
1602	[2894, 2895]	3624	[156, 1878]	5646	[1128, 7299]	7668	[886, 5666]
1603	[2896, 2897]	3625	[5598, 5599]	5647	[7300, 6857]	7669	[7867, 5835]
1604	[2898, 2899]	3626	[5600, 667]	5648	[7301, 3852]	7670	[6521, 5022]
1605	[2900, 2901]	3627	[5047, 5601]	5649	[3215, 3329]	7671	[591, 5953]
1606	[2278, 2902]	3628	[2957, 1914]	5650	[4620, 3519]	7672	[6136, 6516]
1607	[2903, 2904]	3629	[194, 5602]	5651	[7302, 7303]	7673	[687, 2037]
1608	[2905, 2906]	3630	[5254, 5603]	5652	[7304, 7174]	7674	[210, 7915]
1609	[2907, 2299]	3631	[5604, 5605]	5653	[7305, 1519]	7675	[6324, 606]
1610	[2908, 2909]	3632	[1937, 5606]	5654	[7306, 7307]	7676	[8044, 909]
1611	[2910, 2911]	3633	[5607, 5608]	5655	[7150, 3482]	7677	[3143, 1791]
1612	[2912, 2913]	3634	[5609, 2569]	5656	[4953, 7308]	7678	[7997, 5708]
1613	[2914, 2915]	3635	[5610, 5515]	5657	[3767, 7011]	7679	[8019, 5711]
1614	[914, 2916]	3636	[5611, 5497]	5658	[3444, 7309]	7680	[2240, 2884]
1615	[2917, 2918]	3637	[5612, 2737]	5659	[4958, 7310]	7681	[6401, 8049]
1616	[1907, 2919]	3638	[5613, 1918]	5660	[4878, 7311]	7682	[8050, 7896]
1617	[1909, 2920]	3639	[5614, 2802]	5661	[3938, 4342]	7683	[5161, 8050]
1618	[2921, 2922]	3640	[2904, 5615]	5662	[4917, 7312]	7684	[8024, 7822]
1619	[2923, 2924]	3641	[5616, 5617]	5663	[4968, 7313]	7685	[5860, 7941]
1620	[2408, 843]	3642	[5171, 5618]	5664	[3667, 7314]	7686	[7985, 807]
1621	[2925, 2926]	3643	[5619, 5620]	5665	[4284, 89]	7687	[6547, 6730]
1622	[2927, 2928]	3644	[5621, 864]	5666	[7214, 1005]	7688	[8012, 6109]
1623	[2034, 2929]	3645	[1869, 5622]	5667	[7315, 4360]	7689	[5221, 8010]
1624	[2930, 2931]	3646	[5623, 5162]	5668	[86, 7316]	7690	[172, 6162]
1625	[2932, 2933]	3647	[5624, 5625]	5669	[4282, 7317]	7691	[6323, 7823]
1626	[2067, 831]	3648	[5626, 5627]	5670	[4835, 4136]	7692	[2170, 8037]
1627	[2934, 2935]	3649	[5628, 3040]	5671	[4752, 1732]	7693	[2425, 2051]
1628	[2936, 777]	3650	[5629, 5630]	5672	[7318, 7319]	7694	[5470, 7805]
1629	[2937, 1989]	3651	[5631, 5632]	5673	[4566, 7320]	7695	[786, 2219]
1630	[208, 2938]	3652	[5333, 866]	5674	[7321, 7322]	7696	[8046, 1961]
1631	[2939, 2940]	3653	[832, 5633]	5675	[7155, 4314]	7697	[6699, 5669]
1632	[2941, 2942]	3654	[917, 5634]	5676	[1651, 101]	7698	[7787, 7869]
1633	[2943, 2944]	3655	[5168, 5635]	5677	[7323, 7324]	7699	[1830, 2176]
1634	[2945, 2806]	3656	[5447, 5636]	5678	[7325, 7326]	7700	[7967, 2787]
1635	[2946, 2691]	3657	[574, 5637]	5679	[3505, 7327]	7701	[2084, 6653]
1636	[766, 638]	3658	[2751, 2828]	5680	[7328, 3950]	7702	[2086, 2974]
1637	[2947, 845]	3659	[5638, 5639]	5681	[7329, 3971]	7703	[6312, 672]
1638	[2948, 2949]	3660	[5640, 5305]	5682	[7330, 7331]	7704	[6240, 7936]
1639	[2950, 2209]	3661	[5098, 5641]	5683	[4123, 7332]	7705	[5798, 6311]
1640	[2951, 2952]	3662	[5642, 5643]	5684	[7026, 7333]	7706	[5100, 7803]
1641	[2953, 862]	3663	[2881, 5644]	5685	[7027, 1661]	7707	[5513, 7865]
1642	[2954, 2955]	3664	[2437, 5486]	5686	[7334, 7335]	7708	[6142, 7824]
1643	[2742, 2663]	3665	[2438, 5293]	5687	[7336, 4078]	7709	[5557, 2376]
1644	[2956, 2957]	3666	[2662, 2951]	5688	[3769, 4112]	7710	[6270, 7888]

1645	[2958, 2959]	3667	[5645, 5646]	5689	[3605, 3436]	7711	[5771, 7973]
1646	[2960, 2961]	3668	[5647, 5648]	5690	[7337, 7028]	7712	[8049, 5090]
1647	[2624, 2962]	3669	[1816, 5649]	5691	[4614, 7338]	7713	[7782, 2029]
1648	[2963, 2964]	3670	[5650, 2007]	5692	[7339, 3529]	7714	[6295, 2939]
1649	[2965, 201]	3671	[2854, 2009]	5693	[3931, 4543]	7715	[8048, 8026]
1650	[2966, 2967]	3672	[5651, 5652]	5694	[1376, 1683]	7716	[6756, 2453]
1651	[2968, 203]	3673	[5295, 5653]	5695	[6781, 3426]	7717	[8001, 525]
1652	[2969, 2970]	3674	[5654, 5655]	5696	[7331, 7162]	7718	[633, 5926]
1653	[2971, 2972]	3675	[5656, 5657]	5697	[7340, 7341]	7719	[7926, 6079]
1654	[2973, 1902]	3676	[844, 1882]	5698	[4988, 3282]	7720	[6265, 6305]
1655	[2974, 2975]	3677	[5658, 5659]	5699	[7342, 7279]	7721	[6635, 1950]
1656	[2271, 2228]	3678	[5660, 5661]	5700	[7343, 4789]	7722	[2283, 5894]
1657	[699, 2976]	3679	[5662, 5663]	5701	[7344, 7345]	7723	[7963, 8051]
1658	[701, 2977]	3680	[5335, 5664]	5702	[7346, 3631]	7724	[5119, 6055]
1659	[2978, 2979]	3681	[2096, 5665]	5703	[7347, 963]	7725	[5265, 6477]
1660	[1890, 2980]	3682	[5666, 2275]	5704	[3530, 4464]	7726	[7990, 569]
1661	[2981, 2982]	3683	[5667, 5668]	5705	[3689, 7348]	7727	[6362, 170]
1662	[2983, 2984]	3684	[5669, 5670]	5706	[7349, 462]	7728	[5725, 2533]
1663	[1930, 2194]	3685	[5671, 5672]	5707	[7350, 4595]	7729	[1978, 7932]
1664	[2985, 2986]	3686	[2919, 5673]	5708	[7125, 3350]	7730	[6533, 5203]
1665	[2987, 2988]	3687	[5674, 5675]	5709	[347, 1278]	7731	[6657, 6051]
1666	[2989, 2990]	3688	[5487, 5676]	5710	[4601, 1153]	7732	[8051, 7798]
1667	[2991, 2992]	3689	[5677, 5678]	5711	[7050, 1109]	7733	[6303, 6601]
1668	[2993, 2994]	3690	[5679, 5680]	5712	[7351, 7352]	7734	[7933, 1920]
1669	[666, 2995]	3691	[5681, 5682]	5713	[3990, 4233]	7735	[1893, 6207]
1670	[2782, 2996]	3692	[2962, 5683]	5714	[4228, 7353]	7736	[5928, 6647]
1671	[2242, 2997]	3693	[5684, 5685]	5715	[6893, 6866]	7737	[2999, 5774]
1672	[2998, 2999]	3694	[755, 5686]	5716	[424, 7354]	7738	[2356, 7904]
1673	[2108, 3000]	3695	[5687, 5688]	5717	[4144, 27]	7739	[7893, 8047]
1674	[3001, 3002]	3696	[5689, 5690]	5718	[4564, 7274]	7740	[6009, 6283]
1675	[3003, 3004]	3697	[2790, 5691]	5719	[3362, 1720]	7741	[8031, 5588]
1676	[3005, 3006]	3698	[5692, 879]	5720	[3661, 7023]	7742	[5369, 6202]
1677	[3007, 3008]	3699	[5693, 5694]	5721	[3935, 6770]	7743	[2660, 6345]
1678	[2413, 3009]	3700	[5695, 5696]	5722	[3377, 7156]	7744	[5424, 7976]
1679	[3010, 3011]	3701	[624, 5410]	5723	[4980, 7355]	7745	[6503, 6645]
1680	[3012, 3013]	3702	[5697, 5242]	5724	[6885, 1757]	7746	[6285, 7898]
1681	[3004, 3014]	3703	[3009, 5698]	5725	[7192, 1510]	7747	[2510, 2965]
1682	[2840, 2022]	3704	[5699, 5700]	5726	[4575, 4049]	7748	[7928, 35]
1683	[3015, 3016]	3705	[5701, 2545]	5727	[6922, 1113]	7749	[8008, 1851]
1684	[3017, 598]	3706	[5702, 1958]	5728	[6977, 4444]	7750	[6166, 6559]
1685	[2554, 765]	3707	[724, 5703]	5729	[7230, 3367]	7751	[6060, 8052]
1686	[3018, 1933]	3708	[1973, 5704]	5730	[1680, 4199]	7752	[7930, 5709]
1687	[930, 1970]	3709	[5705, 3015]	5731	[7356, 7357]	7753	[3097, 8053]
1688	[3019, 3020]	3710	[5706, 5707]	5732	[6947, 6937]	7754	[5130, 2559]

1689	[3021, 2317]	3711	[5708, 2969]	5733	[1585, 7358]	7755	[6742, 7857]
1690	[2398, 3022]	3712	[5344, 5585]	5734	[3569, 490]	7756	[6210, 688]
1691	[1974, 3023]	3713	[5709, 5710]	5735	[3570, 4921]	7757	[1796, 723]
1692	[1883, 3024]	3714	[1794, 2778]	5736	[3466, 3818]	7758	[7919, 2730]
1693	[3025, 3026]	3715	[5711, 2733]	5737	[7359, 1420]	7759	[6244, 7778]
1694	[3027, 2898]	3716	[5712, 2650]	5738	[4955, 69]	7760	[7870, 5118]
1695	[3028, 3029]	3717	[5713, 2488]	5739	[4386, 1453]	7761	[7841, 5170]
1696	[3030, 3031]	3718	[5714, 2502]	5740	[4214, 7096]	7762	[6133, 7994]
1697	[3032, 2874]	3719	[2922, 5366]	5741	[7360, 1655]	7763	[2166, 6748]
1698	[3033, 3034]	3720	[5715, 5716]	5742	[5003, 7361]	7764	[2977, 8036]
1699	[3035, 2306]	3721	[5717, 2853]	5743	[7362, 7363]	7765	[5164, 5723]
1700	[3036, 1916]	3722	[5718, 5719]	5744	[116, 7364]	7766	[7801, 8038]
1701	[2452, 3037]	3723	[5720, 5658]	5745	[1293, 4671]	7767	[7831, 2514]
1702	[3038, 3039]	3724	[5721, 3066]	5746	[4379, 3625]	7768	[8054, 4792]
1703	[3040, 789]	3725	[5722, 5457]	5747	[7147, 7365]	7769	[3260, 7637]
1704	[3041, 3042]	3726	[3101, 5302]	5748	[1348, 93]	7770	[3949, 1063]
1705	[3043, 3044]	3727	[561, 2659]	5749	[7020, 3737]	7771	[7685, 7674]
1706	[3045, 496]	3728	[5723, 5724]	5750	[7366, 6989]	7772	[3535, 8055]
1707	[3046, 2797]	3729	[5501, 5725]	5751	[7367, 1388]	7773	[7742, 1288]
1708	[3047, 1872]	3730	[5726, 5727]	5752	[7368, 4267]	7774	[3873, 1319]
1709	[3048, 3049]	3731	[852, 5728]	5753	[7369, 7370]	7775	[966, 6993]
1710	[1832, 737]	3732	[5729, 5730]	5754	[7371, 1213]	7776	[6879, 7563]
1711	[3050, 223]	3733	[5731, 5732]	5755	[7372, 4260]	7777	[1654, 4946]
1712	[3051, 3052]	3734	[5733, 2266]	5756	[6884, 7373]	7778	[3863, 7551]
1713	[3053, 3054]	3735	[5734, 5735]	5757	[7374, 7372]	7779	[8056, 7012]
1714	[3055, 3056]	3736	[5736, 5737]	5758	[4851, 7375]	7780	[7298, 8057]
1715	[3057, 3058]	3737	[5738, 33]	5759	[4240, 1671]	7781	[1566, 3551]
1716	[780, 3059]	3738	[5739, 5740]	5760	[7031, 1069]	7782	[8058, 7578]
1717	[3060, 3061]	3739	[5741, 1898]	5761	[3684, 4176]	7783	[7171, 8059]
1718	[3062, 3063]	3740	[5742, 5743]	5762	[7100, 4178]	7784	[3537, 91]
1719	[3064, 3065]	3741	[58, 5744]	5763	[7376, 3418]	7785	[7652, 7045]
1720	[3066, 3067]	3742	[5745, 2834]	5764	[7377, 7378]	7786	[1602, 4939]
1721	[3068, 3069]	3743	[5746, 5439]	5765	[7379, 4634]	7787	[278, 1308]
1722	[3070, 2950]	3744	[5700, 5616]	5766	[7380, 7349]	7788	[7737, 3761]
1723	[3071, 3072]	3745	[5747, 5748]	5767	[5002, 3216]	7789	[4985, 1620]
1724	[2330, 3073]	3746	[5749, 5750]	5768	[3343, 4852]	7790	[7130, 4987]
1725	[3074, 3075]	3747	[1860, 5751]	5769	[3906, 4374]	7791	[7754, 7414]
1726	[3076, 3077]	3748	[5752, 5753]	5770	[1206, 4489]	7792	[6808, 4983]
1727	[2895, 2220]	3749	[5754, 5755]	5771	[1638, 4305]	7793	[1738, 8060]
1728	[3078, 3079]	3750	[5756, 5757]	5772	[7381, 4043]	7794	[7152, 7410]
1729	[3080, 3081]	3751	[5758, 5759]	5773	[4186, 7001]	7795	[7006, 8061]
1730	[3082, 3083]	3752	[5760, 5623]	5774	[7382, 7383]	7796	[3413, 4567]
1731	[3084, 3085]	3753	[5761, 5762]	5775	[4848, 6973]	7797	[1562, 3280]
1732	[3039, 3086]	3754	[5763, 5764]	5776	[958, 7161]	7798	[4867, 7758]

1733	[1867, 181]	3755	[5765, 5766]	5777	[3349, 7382]	7799	[3491, 3189]
1734	[703, 2126]	3756	[5767, 1815]	5778	[7384, 7385]	7800	[8062, 1601]
1735	[2984, 3087]	3757	[5768, 5769]	5779	[4830, 3502]	7801	[3983, 8056]
1736	[2123, 3088]	3758	[1964, 5320]	5780	[7386, 1569]	7802	[271, 8063]
1737	[2218, 1785]	3759	[1837, 5770]	5781	[7387, 348]	7803	[4801, 1140]
1738	[3089, 3090]	3760	[5632, 5771]	5782	[7385, 4660]	7804	[8064, 7070]
1739	[3091, 2927]	3761	[5772, 5773]	5783	[7388, 1136]	7805	[7170, 7433]
1740	[3092, 3093]	3762	[5774, 5775]	5784	[7348, 3993]	7806	[4805, 4093]
1741	[3094, 3095]	3763	[497, 5776]	5785	[7309, 7389]	7807	[3905, 7407]
1742	[3096, 3097]	3764	[528, 5777]	5786	[4970, 6787]	7808	[1437, 7692]
1743	[3023, 3098]	3765	[2879, 874]	5787	[7326, 7249]	7809	[3283, 7534]
1744	[3099, 3100]	3766	[5477, 5624]	5788	[7390, 4047]	7810	[4626, 4694]
1745	[2634, 3101]	3767	[5778, 5779]	5789	[7059, 6811]	7811	[6926, 8065]
1746	[3102, 678]	3768	[5780, 5781]	5790	[1619, 7198]	7812	[7137, 7337]
1747	[3103, 3104]	3769	[5782, 5783]	5791	[4032, 4908]	7813	[4200, 4054]
1748	[3105, 3106]	3770	[5784, 5785]	5792	[7391, 4518]	7814	[7533, 3715]
1749	[3107, 3108]	3771	[5786, 2395]	5793	[7392, 3601]	7815	[7444, 3157]
1750	[3109, 3110]	3772	[5787, 5788]	5794	[7393, 6836]	7816	[8066, 3511]
1751	[741, 2179]	3773	[2155, 5789]	5795	[3951, 7084]	7817	[4756, 7394]
1752	[3111, 3112]	3774	[5192, 602]	5796	[7394, 7395]	7818	[7762, 7302]
1753	[3113, 2468]	3775	[2558, 907]	5797	[4772, 7396]	7819	[4110, 6962]
1754	[3114, 3115]	3776	[5790, 5791]	5798	[3794, 4338]	7820	[6858, 8058]
1755	[2435, 3116]	3777	[5792, 5793]	5799	[4091, 1336]	7821	[7177, 4635]
1756	[3117, 3118]	3778	[5480, 5794]	5800	[7033, 7397]	7822	[7713, 4976]
1757	[695, 3119]	3779	[5770, 2682]	5801	[4237, 7398]	7823	[1676, 4708]
1758	[772, 3120]	3780	[5795, 5796]	5802	[7399, 7400]	7824	[410, 1492]
1759	[3121, 1835]	3781	[5411, 5797]	5803	[4350, 3172]	7825	[3654, 7746]
1760	[3122, 3123]	3782	[2185, 5798]	5804	[1342, 4084]	7826	[1118, 4194]
1761	[3124, 3125]	3783	[5799, 713]	5805	[7401, 3599]	7827	[6816, 4069]
1762	[3126, 3127]	3784	[5683, 5754]	5806	[7402, 7403]	7828	[4947, 7595]
1763	[3128, 3129]	3785	[5587, 5800]	5807	[7404, 421]	7829	[7747, 7343]
1764	[3130, 3131]	3786	[5801, 5802]	5808	[4308, 1315]	7830	[7537, 7042]
1765	[3132, 3133]	3787	[1820, 2743]	5809	[7405, 7181]	7831	[7697, 4447]
1766	[536, 2436]	3788	[2570, 5803]	5810	[7406, 7367]	7832	[8060, 3591]
1767	[3134, 2966]	3789	[5804, 5805]	5811	[4122, 7046]	7833	[7548, 7632]
1768	[3135, 1935]	3790	[5806, 5807]	5812	[7407, 4993]	7834	[8055, 7461]
1769	[2608, 2055]	3791	[5808, 5567]	5813	[7264, 4376]	7835	[3747, 4388]
1770	[3136, 3137]	3792	[5809, 2206]	5814	[4302, 7163]	7836	[4961, 4435]
1771	[3138, 3139]	3793	[5743, 5810]	5815	[3561, 295]	7837	[4486, 8067]
1772	[3140, 2971]	3794	[5811, 680]	5816	[4868, 1083]	7838	[4446, 7539]
1773	[3141, 2447]	3795	[5812, 1799]	5817	[3325, 7037]	7839	[7213, 4725]
1774	[3142, 3143]	3796	[5813, 2983]	5818	[7408, 4439]	7840	[8059, 1597]
1775	[697, 3144]	3797	[675, 5125]	5819	[7168, 4366]	7841	[3560, 6917]
1776	[2888, 3145]	3798	[5814, 5815]	5820	[5009, 7204]	7842	[3617, 4658]

1777	[846, 767]	3799	[916, 3135]	5821	[7409, 3278]	7843	[4466, 7753]
1778	[3146, 3147]	3800	[3020, 5816]	5822	[7410, 7411]	7844	[4930, 1533]
1779	[3148, 3149]	3801	[5817, 5818]	5823	[6997, 7412]	7845	[7398, 8068]
1780	[3150, 2388]	3802	[5740, 5819]	5824	[4929, 3344]	7846	[1089, 7724]
1781	[3151, 823]	3803	[5820, 5671]	5825	[7257, 3651]	7847	[8069, 3658]
1782	[3152, 3153]	3804	[5821, 5780]	5826	[4182, 314]	7848	[7520, 6960]
1783	[3154, 3155]	3805	[5822, 5823]	5827	[3876, 7413]	7849	[8070, 3253]
1784	[3156, 3157]	3806	[3072, 5824]	5828	[118, 7218]	7850	[7531, 4673]
1785	[3158, 3159]	3807	[3031, 5825]	5829	[7414, 7415]	7851	[4014, 4753]
1786	[1277, 3160]	3808	[2719, 729]	5830	[3952, 4152]	7852	[7081, 4737]
1787	[3161, 3162]	3809	[5547, 5826]	5831	[7416, 7417]	7853	[3385, 4550]
1788	[1483, 3163]	3810	[1921, 2645]	5832	[7418, 7419]	7854	[3336, 3197]
1789	[3164, 3165]	3811	[5827, 5828]	5833	[4238, 3854]	7855	[4245, 1471]
1790	[3166, 3167]	3812	[5405, 2414]	5834	[7420, 3214]	7856	[7586, 8071]
1791	[3168, 3169]	3813	[5829, 665]	5835	[7421, 1186]	7857	[3751, 4655]
1792	[3170, 3171]	3814	[5830, 5831]	5836	[7422, 7423]	7858	[7400, 4680]
1793	[3172, 3173]	3815	[3147, 5832]	5837	[1660, 3963]	7859	[7555, 4690]
1794	[3174, 3175]	3816	[5573, 3150]	5838	[7424, 7339]	7860	[7745, 7538]
1795	[3176, 3177]	3817	[5833, 5834]	5839	[7425, 3833]	7861	[7207, 6854]
1796	[3178, 3179]	3818	[5835, 5836]	5840	[6786, 1199]	7862	[3441, 1173]
1797	[3180, 308]	3819	[5084, 905]	5841	[7426, 6804]	7863	[1771, 7454]
1798	[3181, 3182]	3820	[5781, 5837]	5842	[7427, 7016]	7864	[7165, 7628]
1799	[3183, 3184]	3821	[5838, 2889]	5843	[1214, 3205]	7865	[6775, 1051]
1800	[3185, 3186]	3822	[5769, 5654]	5844	[7428, 7244]	7866	[7648, 7676]
1801	[3187, 3188]	3823	[5839, 5840]	5845	[7429, 1430]	7867	[4127, 4166]
1802	[3189, 3190]	3824	[5703, 498]	5846	[7430, 3504]	7868	[6935, 4745]
1803	[3191, 3192]	3825	[2256, 5841]	5847	[332, 4147]	7869	[7124, 7368]
1804	[3193, 3194]	3826	[5842, 5843]	5848	[7431, 1399]	7870	[1244, 4768]
1805	[3195, 3196]	3827	[5844, 5845]	5849	[416, 7233]	7871	[1097, 7221]
1806	[3197, 3198]	3828	[5846, 1845]	5850	[6943, 7432]	7872	[3912, 3893]
1807	[3199, 3200]	3829	[3011, 5847]	5851	[7433, 3733]	7873	[4278, 303]
1808	[3201, 3202]	3830	[5848, 735]	5852	[3521, 7021]	7874	[7389, 7421]
1809	[3203, 3204]	3831	[5849, 2464]	5853	[7378, 7129]	7875	[7650, 4362]
1810	[3205, 361]	3832	[5850, 5851]	5854	[4653, 4762]	7876	[1766, 4876]
1811	[3206, 3207]	3833	[5852, 5853]	5855	[261, 4075]	7877	[3403, 1102]
1812	[3208, 3209]	3834	[2813, 5854]	5856	[313, 3830]	7878	[7470, 3678]
1813	[3210, 3211]	3835	[5342, 5855]	5857	[3256, 3456]	7879	[7712, 7420]
1814	[3212, 3213]	3836	[5856, 3041]	5858	[7276, 4923]	7880	[7542, 8072]
1815	[3214, 3215]	3837	[5857, 5858]	5859	[7434, 7025]	7881	[7266, 7589]
1816	[3216, 3217]	3838	[5859, 2341]	5860	[7260, 7435]	7882	[5008, 6782]
1817	[3218, 3219]	3839	[2400, 2290]	5861	[4544, 7436]	7883	[4451, 3307]
1818	[3220, 3221]	3840	[5800, 5860]	5862	[1520, 3986]	7884	[122, 7549]
1819	[3222, 3223]	3841	[2727, 5861]	5863	[4520, 7437]	7885	[1002, 1312]
1820	[3224, 3225]	3842	[5862, 177]	5864	[7438, 4551]	7886	[7605, 7484]

1821	[1251, 3226]	3843	[643, 2943]	5865	[414, 7439]	7887	[1143, 359]
1822	[3227, 3228]	3844	[2707, 5863]	5866	[7440, 7441]	7888	[8073, 4842]
1823	[3229, 3230]	3845	[2487, 3136]	5867	[7442, 7359]	7889	[7188, 8062]
1824	[3231, 3232]	3846	[5864, 902]	5868	[1670, 7254]	7890	[7761, 3276]
1825	[3233, 3234]	3847	[5865, 2154]	5869	[4132, 7443]	7891	[7655, 7684]
1826	[3235, 323]	3848	[5866, 5867]	5870	[7255, 3768]	7892	[1528, 4201]
1827	[3236, 3237]	3849	[5868, 5827]	5871	[7383, 3874]	7893	[4371, 7730]
1828	[3238, 3239]	3850	[2476, 590]	5872	[4825, 3255]	7894	[7087, 7092]
1829	[3240, 3241]	3851	[2125, 2284]	5873	[3430, 7444]	7895	[6964, 4167]
1830	[3242, 3243]	3852	[5783, 5869]	5874	[7445, 7239]	7896	[6908, 7429]
1831	[3244, 1401]	3853	[5870, 2167]	5875	[7446, 1416]	7897	[4925, 7550]
1832	[3245, 3246]	3854	[5871, 5872]	5876	[7120, 7058]	7898	[7497, 4699]
1833	[3247, 1119]	3855	[2515, 573]	5877	[7447, 4834]	7899	[7286, 7063]
1834	[1180, 3248]	3856	[5873, 5874]	5878	[6818, 7448]	7900	[7114, 4430]
1835	[3249, 3250]	3857	[2313, 5875]	5879	[4418, 7449]	7901	[8065, 7653]
1836	[3251, 3252]	3858	[3024, 5876]	5880	[7450, 3623]	7902	[7358, 4839]
1837	[3253, 1506]	3859	[5877, 2586]	5881	[4354, 7451]	7903	[448, 4346]
1838	[3254, 1694]	3860	[5340, 5878]	5882	[7452, 7453]	7904	[6869, 7015]
1839	[3255, 3256]	3861	[2622, 5879]	5883	[1371, 6982]	7905	[4327, 7657]
1840	[3257, 3258]	3862	[5880, 2303]	5884	[7454, 7455]	7906	[7660, 7749]
1841	[3259, 3260]	3863	[5791, 3051]	5885	[3585, 439]	7907	[7766, 7744]
1842	[253, 3261]	3864	[5881, 2804]	5886	[1461, 1687]	7908	[3241, 7546]
1843	[1709, 3262]	3865	[5882, 5883]	5887	[4681, 4406]	7909	[7057, 3744]
1844	[1279, 1551]	3866	[5884, 5885]	5888	[3294, 1023]	7910	[4495, 447]
1845	[1783, 3263]	3867	[770, 5886]	5889	[4974, 6868]	7911	[396, 3866]
1846	[3264, 3265]	3868	[924, 5887]	5890	[7412, 7456]	7912	[8074, 3845]
1847	[1305, 3266]	3869	[585, 5888]	5891	[1509, 1679]	7913	[7413, 4838]
1848	[3267, 3268]	3870	[154, 2606]	5892	[3304, 487]	7914	[7693, 3328]
1849	[1665, 3269]	3871	[1943, 627]	5893	[6840, 7224]	7915	[7703, 3743]
1850	[3270, 3271]	3872	[2513, 2991]	5894	[3671, 1075]	7916	[16, 3999]
1851	[3272, 3273]	3873	[2212, 2426]	5895	[7457, 1414]	7917	[1330, 7196]
1852	[3274, 3275]	3874	[5889, 5890]	5896	[7458, 3227]	7918	[4786, 7603]
1853	[3276, 3277]	3875	[802, 2003]	5897	[7459, 3396]	7919	[970, 3668]
1854	[3278, 3279]	3876	[5891, 5530]	5898	[6825, 5]	7920	[7112, 7751]
1855	[3280, 3281]	3877	[5351, 5892]	5899	[7423, 7460]	7921	[3936, 4493]
1856	[3282, 3283]	3878	[5228, 5893]	5900	[6829, 1734]	7922	[7512, 7614]
1857	[3284, 373]	3879	[5894, 558]	5901	[3204, 7036]	7923	[6970, 1625]
1858	[72, 3285]	3880	[5895, 5896]	5902	[4188, 3864]	7924	[8061, 7686]
1859	[3286, 3287]	3881	[5897, 5821]	5903	[7461, 4010]	7925	[4432, 6807]
1860	[3288, 3289]	3882	[5898, 5899]	5904	[4334, 954]	7926	[7604, 1010]
1861	[3290, 3291]	3883	[5900, 5901]	5905	[7395, 3611]	7927	[7625, 3891]
1862	[3292, 1181]	3884	[945, 2678]	5906	[6953, 7462]	7928	[1613, 8075]
1863	[100, 125]	3885	[513, 2107]	5907	[7320, 4758]	7929	[275, 4006]
1864	[3293, 3294]	3886	[5902, 5903]	5908	[6918, 1512]	7930	[345, 305]

1865	[3295, 3296]	3887	[5260, 5738]	5909	[6934, 7212]	7931	[3899, 7679]
1866	[482, 3297]	3888	[5105, 3128]	5910	[6794, 7463]	7932	[1711, 4097]
1867	[3298, 1302]	3889	[5904, 5210]	5911	[7464, 7465]	7933	[8068, 7211]
1868	[3299, 3300]	3890	[5905, 2066]	5912	[7466, 3494]	7934	[7295, 7160]
1869	[3301, 3302]	3891	[5906, 5907]	5913	[7456, 7467]	7935	[4895, 407]
1870	[3303, 3304]	3892	[5908, 2088]	5914	[7468, 4471]	7936	[1091, 7661]
1871	[3305, 3306]	3893	[5190, 5909]	5915	[1689, 3800]	7937	[1178, 3606]
1872	[3307, 3308]	3894	[5910, 5911]	5916	[7469, 7470]	7938	[3435, 7418]
1873	[1493, 3309]	3895	[5912, 2033]	5917	[7471, 7472]	7939	[7756, 7495]
1874	[3310, 3311]	3896	[3131, 2460]	5918	[7473, 7474]	7940	[7763, 6975]
1875	[3312, 1612]	3897	[1821, 3068]	5919	[7475, 6899]	7941	[8072, 7740]
1876	[3313, 3314]	3898	[5913, 637]	5920	[255, 6784]	7942	[4225, 1489]
1877	[3315, 3316]	3899	[5109, 5404]	5921	[4070, 4281]	7943	[8076, 7351]
1878	[3317, 3318]	3900	[5914, 2637]	5922	[7476, 3448]	7944	[88, 7111]
1879	[3319, 3320]	3901	[2920, 5778]	5923	[7396, 7464]	7945	[1633, 7306]
1880	[3321, 1537]	3902	[898, 5915]	5924	[4173, 3652]	7946	[3832, 7431]
1881	[3322, 3323]	3903	[5916, 5917]	5925	[7131, 7290]	7947	[3387, 4757]
1882	[1598, 3324]	3904	[5918, 5919]	5926	[1210, 7216]	7948	[7064, 475]
1883	[1600, 3325]	3905	[5443, 5621]	5927	[7477, 1171]	7949	[8077, 7088]
1884	[3326, 1491]	3906	[5277, 853]	5928	[7478, 7151]	7950	[4115, 8073]
1885	[1236, 3327]	3907	[2668, 5920]	5929	[3745, 4197]	7951	[8078, 4856]
1886	[1238, 1225]	3908	[3116, 5122]	5930	[3457, 7272]	7952	[6783, 7633]
1887	[3328, 1098]	3909	[5921, 2116]	5931	[3434, 7479]	7953	[6913, 7750]
1888	[3329, 3330]	3910	[1994, 3035]	5932	[76, 1747]	7954	[7666, 8079]
1889	[3331, 3332]	3911	[5922, 2808]	5933	[1070, 7480]	7955	[8071, 7672]
1890	[3333, 3334]	3912	[5923, 5910]	5934	[4793, 7182]	7956	[7319, 3218]
1891	[3335, 3336]	3913	[5924, 5925]	5935	[1702, 7481]	7957	[7615, 287]
1892	[3337, 3338]	3914	[5926, 5927]	5936	[4061, 7134]	7958	[1072, 7430]
1893	[3339, 454]	3915	[224, 5184]	5937	[4760, 7482]	7959	[7498, 7525]
1894	[3340, 3341]	3916	[5377, 5928]	5938	[4411, 1412]	7960	[7176, 4625]
1895	[3342, 3343]	3917	[5929, 5849]	5939	[7338, 4482]	7961	[4211, 6855]
1896	[3344, 3345]	3918	[2307, 1904]	5940	[4304, 7459]	7962	[8075, 4027]
1897	[3346, 1708]	3919	[5930, 2785]	5941	[7483, 1749]	7963	[7195, 3408]
1898	[3347, 3348]	3920	[5931, 5932]	5942	[4706, 4967]	7964	[7501, 4035]
1899	[362, 3349]	3921	[557, 5933]	5943	[1337, 4343]	7965	[1080, 7374]
1900	[3350, 3351]	3922	[5934, 5935]	5944	[7484, 3299]	7966	[4686, 3739]
1901	[3352, 264]	3923	[601, 5936]	5945	[7241, 4817]	7967	[7443, 1543]
1902	[3353, 1227]	3924	[873, 1894]	5946	[3228, 4239]	7968	[6978, 1321]
1903	[3354, 3355]	3925	[2918, 5937]	5947	[7485, 4607]	7969	[7486, 3193]
1904	[3356, 3357]	3926	[5938, 2499]	5948	[4790, 7018]	7970	[7332, 8064]
1905	[3358, 3359]	3927	[2822, 5581]	5949	[1406, 4668]	7971	[3207, 7471]
1906	[3360, 3361]	3928	[5939, 5141]	5950	[4157, 4505]	7972	[8067, 7708]
1907	[1301, 3362]	3929	[5940, 5941]	5951	[394, 6889]	7973	[7289, 7438]
1908	[3363, 3364]	3930	[5338, 187]	5952	[1045, 7381]	7974	[7643, 1344]

1909	[3365, 3366]	3931	[3088, 5942]	5953	[1343, 6916]	7975	[7739, 4440]
1910	[3367, 3368]	3932	[5943, 5944]	5954	[1135, 7486]	7976	[3910, 7626]
1911	[3369, 3370]	3933	[2770, 2005]	5955	[4336, 7487]	7977	[4928, 1331]
1912	[3371, 1556]	3934	[653, 5945]	5956	[4503, 3240]	7978	[7725, 7515]
1913	[3372, 3373]	3935	[5946, 219]	5957	[404, 7488]	7979	[7636, 7627]
1914	[3374, 3375]	3936	[5947, 5948]	5958	[7489, 4545]	7980	[6980, 7760]
1915	[3376, 3377]	3937	[1905, 5949]	5959	[1691, 7102]	7981	[7353, 7105]
1916	[3378, 3379]	3938	[5948, 5296]	5960	[7490, 3557]	7982	[7474, 7388]
1917	[3380, 3381]	3939	[2757, 5274]	5961	[7491, 3453]	7983	[4905, 3807]
1918	[3382, 3383]	3940	[5950, 5951]	5962	[7288, 7492]	7984	[8079, 8077]
1919	[3384, 3385]	3941	[542, 5952]	5963	[1285, 7446]	7985	[1468, 7757]
1920	[3386, 3387]	3942	[5282, 5120]	5964	[7122, 7245]	7986	[1515, 8069]
1921	[1130, 3388]	3943	[5953, 5954]	5965	[1423, 1065]	7987	[3808, 7318]
1922	[3316, 3389]	3944	[5955, 5956]	5966	[292, 3369]	7988	[4148, 4590]
1923	[3390, 3391]	3945	[5957, 5958]	5967	[7493, 7305]	7989	[3732, 7743]
1924	[3392, 3393]	3946	[5959, 5960]	5968	[6780, 7013]	7990	[1760, 4258]
1925	[3394, 3395]	3947	[2724, 5336]	5969	[7494, 4888]	7991	[4782, 3730]
1926	[3396, 3397]	3948	[5961, 1987]	5970	[3917, 4204]	7992	[7606, 105]
1927	[3398, 3399]	3949	[5962, 5963]	5971	[7495, 7496]	7993	[4013, 1381]
1928	[3400, 3401]	3950	[5964, 5257]	5972	[3462, 4746]	7994	[4663, 7705]
1929	[3402, 3403]	3951	[609, 5965]	5973	[7436, 7489]	7995	[7634, 3742]
1930	[3162, 3404]	3952	[148, 5966]	5974	[4701, 7287]	7996	[7558, 7193]
1931	[3173, 3405]	3953	[1928, 2960]	5975	[4363, 4858]	7997	[8063, 417]
1932	[3406, 3407]	3954	[5231, 5967]	5976	[4972, 7060]	7998	[7292, 8076]
1933	[3226, 1608]	3955	[5968, 5969]	5977	[7203, 7497]	7999	[7231, 3902]
1934	[3408, 1418]	3956	[3087, 2628]	5978	[3788, 7377]	8000	[3487, 3904]
1935	[1721, 3409]	3957	[5970, 5971]	5979	[4498, 7498]	8001	[4982, 4303]
1936	[3410, 3411]	3958	[5972, 5973]	5980	[7499, 7500]	8002	[7197, 6941]
1937	[3412, 3413]	3959	[2071, 5974]	5981	[3334, 7366]	8003	[3846, 7728]
1938	[3414, 3415]	3960	[5975, 833]	5982	[7153, 7501]	8004	[4398, 3191]
1939	[3416, 3417]	3961	[3115, 5976]	5983	[4742, 6888]	8005	[7759, 7691]
1940	[3418, 3419]	3962	[5977, 5978]	5984	[7322, 6895]	8006	[7341, 111]
1941	[3420, 3421]	3963	[5979, 5980]	5985	[3285, 1373]	8007	[6890, 7607]
1942	[1270, 3422]	3964	[2980, 5981]	5986	[4016, 409]	8008	[4293, 3274]
1943	[1318, 1203]	3965	[5456, 5982]	5987	[7144, 6979]	8009	[451, 1355]
1944	[3423, 1359]	3966	[2901, 5983]	5988	[1518, 3496]	8010	[7687, 4639]
1945	[1415, 3293]	3967	[200, 3032]	5989	[3192, 1618]	8011	[4863, 7406]
1946	[3424, 3425]	3968	[5437, 5984]	5990	[4841, 1001]	8012	[7700, 7707]
1947	[3426, 3427]	3969	[5985, 731]	5991	[7090, 4588]	8013	[7641, 1523]
1948	[3428, 1077]	3970	[5986, 207]	5992	[3455, 7502]	8014	[7517, 7584]
1949	[3429, 3430]	3971	[5987, 5988]	5993	[5010, 6789]	8015	[4703, 8070]
1950	[3431, 3432]	3972	[5551, 5989]	5994	[7333, 4499]	8016	[7741, 7261]
1951	[3433, 3434]	3973	[5990, 5991]	5995	[7503, 6864]	8017	[7529, 1286]
1952	[1587, 3435]	3974	[645, 5992]	5996	[4465, 7504]	8018	[4044, 7473]

1953	[3436, 1677]	3975	[5993, 5994]	5997	[4844, 1554]	8019	[3512, 7694]
1954	[3437, 3416]	3976	[2843, 5995]	5998	[4098, 3331]	8020	[7610, 1243]
1955	[94, 1016]	3977	[5996, 5997]	5999	[4999, 1459]	8021	[7307, 7736]
1956	[3438, 3439]	3978	[941, 5998]	6000	[1588, 7505]	8022	[4814, 4039]
1957	[3440, 3441]	3979	[5999, 6000]	6001	[7506, 1563]	8023	[4654, 7399]
1958	[3442, 1183]	3980	[6001, 6002]	6002	[7507, 1565]	8024	[3409, 7263]
1959	[3443, 3444]	3981	[6003, 2324]	6003	[1380, 7032]	8025	[1524, 7280]
1960	[1452, 3445]	3982	[6004, 2563]	6004	[4030, 5006]	8026	[8080, 7121]
1961	[3446, 3447]	3983	[2129, 6005]	6005	[7291, 7508]	8027	[1115, 7336]
1962	[3448, 3449]	3984	[890, 6006]	6006	[1678, 4945]	8028	[20, 4397]
1963	[1433, 3450]	3985	[2656, 2946]	6007	[4026, 4029]	8029	[7293, 4662]
1964	[3451, 1688]	3986	[6007, 2998]	6008	[1456, 4523]	8030	[7752, 8074]
1965	[3217, 3452]	3987	[5371, 1849]	6009	[368, 1704]	8031	[7157, 7262]
1966	[3453, 3454]	3988	[6008, 6009]	6010	[4361, 4502]	8032	[1047, 7315]
1967	[3399, 3455]	3989	[6010, 6011]	6011	[7251, 7427]	8033	[7683, 7681]
1968	[3456, 3457]	3990	[5173, 6012]	6012	[7509, 7510]	8034	[4682, 4286]
1969	[3458, 3459]	3991	[3120, 5561]	6013	[7273, 3208]	8035	[7729, 7189]
1970	[1742, 3460]	3992	[6013, 1811]	6014	[4956, 423]	8036	[1392, 7466]
1971	[3461, 3462]	3993	[2692, 6014]	6015	[6961, 7511]	8037	[8057, 4037]
1972	[3463, 3464]	3994	[6015, 6016]	6016	[6906, 4183]	8038	[7072, 4022]
1973	[3465, 3466]	3995	[6017, 6018]	6017	[1487, 7491]	8039	[351, 4349]
1974	[3467, 3468]	3996	[806, 6019]	6018	[1557, 3702]	8040	[1717, 8078]
1975	[1287, 3469]	3997	[3137, 2292]	6019	[4468, 1517]	8041	[7140, 4898]
1976	[3470, 3471]	3998	[2526, 6020]	6020	[6903, 7512]	8042	[7767, 1151]
1977	[3472, 3473]	3999	[32, 6021]	6021	[64, 985]	8043	[7553, 4623]
1978	[3209, 3474]	4000	[6022, 5430]	6022	[7208, 4916]	8044	[7480, 8066]
1979	[3475, 3476]	4001	[6023, 55]	6023	[7500, 4399]	8045	[3632, 7598]
1980	[3477, 411]	4002	[6024, 5934]	6024	[4488, 403]	8046	[4840, 4642]
1981	[3478, 3479]	4003	[6025, 6026]	6025	[4344, 7513]	8047	[7482, 8080]
1982	[493, 3480]	4004	[5379, 5970]	6026	[3826, 4723]	8048	[6821, 7609]
1983	[1218, 3481]	4005	[2935, 6027]	6027	[7247, 7514]	8049	[7232, 6845]
1984	[3482, 3483]	4006	[538, 6028]	6028	[1038, 4558]	8050	[1400, 7765]
1985	[3484, 3485]	4007	[6029, 5397]	6029	[7324, 6976]	8051	[7718, 3593]
1986	[3486, 3487]	4008	[6030, 6031]	6030	[7515, 7516]	8052	[7083, 4597]
1987	[3488, 3489]	4009	[6032, 5968]	6031	[3411, 7517]	8053	[6796, 7468]
1988	[3314, 3490]	4010	[6033, 6034]	6032	[4325, 7518]	8054	[8081, 6585]
1989	[1624, 3491]	4011	[6035, 6036]	6033	[7519, 1025]	8055	[6626, 133]
1990	[3492, 3493]	4012	[3081, 2525]	6034	[4818, 4324]	8056	[6204, 6691]
1991	[3494, 3495]	4013	[5630, 6037]	6035	[4618, 7520]	8057	[2771, 6032]
1992	[3496, 3339]	4014	[5420, 5692]	6036	[3865, 4975]	8058	[5301, 6664]
1993	[1555, 3497]	4015	[6038, 1952]	6037	[7521, 3284]	8059	[7843, 5999]
1994	[3498, 3499]	4016	[6039, 797]	6038	[7432, 7522]	8060	[6328, 8011]
1995	[1360, 3500]	4017	[3052, 6040]	6039	[6956, 1514]	8061	[6724, 5500]
1996	[1385, 3501]	4018	[2178, 6041]	6040	[7523, 7424]	8062	[7852, 2894]

1997	[3502, 3503]	4019	[6042, 6043]	6041	[3427, 7524]	8063	[530, 6591]
1998	[3504, 3505]	4020	[2512, 6044]	6042	[7525, 7526]	8064	[2197, 5717]
1999	[3506, 3507]	4021	[6045, 5574]	6043	[4306, 7527]	8065	[2362, 7791]
2000	[1421, 3508]	4022	[6046, 6047]	6044	[1108, 7408]	8066	[6386, 5471]
2001	[3509, 3510]	4023	[1923, 6048]	6045	[7528, 7529]	8067	[7972, 7931]
2002	[3511, 3512]	4024	[6049, 5939]	6046	[126, 7425]	8068	[6243, 2609]
2003	[1084, 3513]	4025	[5346, 6050]	6047	[1488, 7530]	8069	[8007, 920]
2004	[3514, 3515]	4026	[6051, 245]	6048	[4268, 7531]	8070	[5275, 2735]
2005	[1511, 3516]	4027	[6052, 2440]	6049	[1674, 6814]	8071	[7777, 1843]
2006	[3517, 3412]	4028	[2653, 1809]	6050	[7532, 7533]	8072	[8052, 7989]
2007	[3518, 1092]	4029	[6053, 6054]	6051	[1697, 4766]	8073	[6526, 7986]
2008	[3519, 3520]	4030	[192, 5923]	6052	[7534, 342]	8074	[6595, 6033]
2009	[3179, 3521]	4031	[6055, 6056]	6053	[3804, 7535]	8075	[34, 3047]
2010	[3522, 3420]	4032	[6057, 6058]	6054	[1172, 7536]	8076	[2992, 7833]
2011	[1011, 3523]	4033	[587, 799]	6055	[4063, 7537]	8077	[5219, 661]
2012	[1411, 3524]	4034	[5601, 6059]	6056	[7538, 7201]	8078	[3059, 6685]
2013	[3525, 3526]	4035	[5888, 6060]	6057	[3942, 3236]	8079	[5974, 5583]
2014	[1644, 3527]	4036	[6061, 2449]	6058	[3311, 3238]	8080	[8053, 6508]
2015	[3528, 3458]	4037	[6062, 6063]	6059	[3820, 4313]	8081	[8082, 1763]
2016	[3529, 3530]	4038	[6064, 6065]	6060	[7539, 7540]	8082	[8083, 3130]
2017	[1056, 3531]	4039	[5556, 6066]	6061	[4582, 4175]	8083	[8084, 4990]
2018	[3532, 3533]	4040	[5869, 6067]	6062	[7465, 7541]	8084	[1, 6111]
2019	[3534, 3535]	4041	[5564, 6068]	6063	[6833, 7321]		
2020	[3536, 3537]	4042	[6069, 6070]	6064	[7225, 254]		
2021	[3538, 3539]	4043	[5255, 6071]	6065	[7364, 1123]		

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	1348	0	2696	1	4044	0	5392	0	6740	0
1	0	1349	1	2697	0	4045	1	5393	1	6741	0
2	0	1350	1	2698	1	4046	0	5394	1	6742	1
3	0	1351	1	2699	0	4047	1	5395	0	6743	1
4	0	1352	0	2700	1	4048	0	5396	1	6744	0
5	0	1353	0	2701	1	4049	0	5397	0	6745	0
6	0	1354	0	2702	0	4050	1	5398	1	6746	1
7	0	1355	1	2703	1	4051	1	5399	1	6747	0
8	0	1356	0	2704	1	4052	0	5400	0	6748	0
9	0	1357	1	2705	1	4053	1	5401	0	6749	1
10	0	1358	1	2706	0	4054	1	5402	0	6750	1
11	0	1359	1	2707	0	4055	0	5403	0	6751	0
12	1	1360	0	2708	1	4056	1	5404	0	6752	0
13	0	1361	1	2709	1	4057	0	5405	1	6753	0
14	0	1362	1	2710	1	4058	0	5406	1	6754	1
15	0	1363	0	2711	1	4059	0	5407	0	6755	1

16	1	1364	0	2712	0	4060	0	5408	0	6756	1
17	0	1365	0	2713	1	4061	0	5409	1	6757	1
18	1	1366	1	2714	1	4062	1	5410	1	6758	1
19	0	1367	0	2715	0	4063	0	5411	1	6759	1
20	0	1368	0	2716	0	4064	0	5412	1	6760	0
21	0	1369	0	2717	1	4065	0	5413	0	6761	1
22	0	1370	0	2718	0	4066	1	5414	1	6762	0
23	0	1371	1	2719	0	4067	1	5415	1	6763	0
24	0	1372	0	2720	0	4068	1	5416	1	6764	1
25	1	1373	1	2721	0	4069	0	5417	1	6765	0
26	0	1374	1	2722	1	4070	1	5418	1	6766	0
27	0	1375	1	2723	1	4071	1	5419	0	6767	0
28	0	1376	1	2724	0	4072	1	5420	1	6768	0
29	0	1377	0	2725	0	4073	0	5421	0	6769	1
30	1	1378	1	2726	0	4074	1	5422	1	6770	1
31	0	1379	0	2727	0	4075	0	5423	1	6771	1
32	1	1380	1	2728	0	4076	0	5424	1	6772	1
33	1	1381	1	2729	0	4077	0	5425	0	6773	0
34	1	1382	1	2730	1	4078	0	5426	1	6774	1
35	0	1383	0	2731	1	4079	1	5427	0	6775	1
36	0	1384	1	2732	0	4080	0	5428	1	6776	1
37	1	1385	1	2733	1	4081	1	5429	1	6777	1
38	1	1386	1	2734	0	4082	1	5430	1	6778	1
39	0	1387	1	2735	1	4083	1	5431	0	6779	0
40	0	1388	0	2736	0	4084	0	5432	1	6780	0
41	0	1389	0	2737	0	4085	0	5433	1	6781	1
42	1	1390	1	2738	1	4086	0	5434	1	6782	0
43	0	1391	1	2739	1	4087	0	5435	1	6783	0
44	1	1392	1	2740	1	4088	1	5436	0	6784	0
45	0	1393	0	2741	1	4089	0	5437	1	6785	1
46	1	1394	0	2742	1	4090	0	5438	1	6786	0
47	0	1395	1	2743	0	4091	0	5439	1	6787	1
48	1	1396	1	2744	1	4092	0	5440	1	6788	0
49	0	1397	0	2745	0	4093	1	5441	1	6789	0
50	1	1398	1	2746	0	4094	1	5442	0	6790	0
51	1	1399	1	2747	0	4095	0	5443	1	6791	1
52	1	1400	0	2748	1	4096	0	5444	0	6792	0
53	0	1401	1	2749	0	4097	0	5445	0	6793	0
54	1	1402	1	2750	0	4098	1	5446	1	6794	0
55	0	1403	1	2751	1	4099	0	5447	1	6795	1
56	1	1404	1	2752	0	4100	0	5448	0	6796	1
57	0	1405	0	2753	0	4101	1	5449	0	6797	1
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60	0	1408	0	2756	1	4104	0	5452	0	6800	0
61	1	1409	1	2757	0	4105	1	5453	1	6801	1
62	1	1410	1	2758	0	4106	0	5454	1	6802	1
63	0	1411	0	2759	1	4107	1	5455	0	6803	0
64	1	1412	0	2760	0	4108	0	5456	0	6804	0
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66	0	1414	1	2762	0	4110	0	5458	0	6806	1
67	1	1415	1	2763	1	4111	1	5459	1	6807	1
68	0	1416	1	2764	1	4112	1	5460	0	6808	0
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71	0	1419	0	2767	0	4115	1	5463	1	6811	1
72	1	1420	1	2768	0	4116	1	5464	1	6812	0
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75	1	1423	1	2771	1	4119	0	5467	0	6815	1
76	1	1424	0	2772	1	4120	0	5468	1	6816	0
77	1	1425	1	2773	1	4121	1	5469	0	6817	0
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82	0	1430	0	2778	0	4126	1	5474	0	6822	0
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85	1	1433	1	2781	0	4129	0	5477	1	6825	1
86	0	1434	1	2782	1	4130	1	5478	0	6826	1
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93	1	1441	0	2789	0	4137	1	5485	1	6833	0
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129	1	1477	1	2825	1	4173	1	5521	0	6869	1
130	1	1478	0	2826	0	4174	1	5522	1	6870	0
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146	0	1494	1	2842	1	4190	1	5538	1	6886	0
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151	1	1499	1	2847	0	4195	0	5543	0	6891	1
152	1	1500	1	2848	1	4196	0	5544	0	6892	0
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156	1	1504	1	2852	1	4200	0	5548	0	6896	0
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212	0	1560	0	2908	1	4256	0	5604	1	6952	1
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214	0	1562	0	2910	0	4258	1	5606	1	6954	1
215	1	1563	0	2911	0	4259	0	5607	1	6955	0
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225	1	1573	1	2921	1	4269	0	5617	0	6965	1
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230	1	1578	0	2926	0	4274	1	5622	1	6970	0
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232	0	1580	0	2928	0	4276	0	5624	0	6972	1
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250	1	1598	1	2946	1	4294	0	5642	0	6990	0
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252	0	1600	0	2948	1	4296	1	5644	1	6992	0
253	0	1601	1	2949	1	4297	0	5645	0	6993	1
254	1	1602	0	2950	0	4298	0	5646	1	6994	1
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256	1	1604	0	2952	1	4300	1	5648	1	6996	1
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262	1	1610	1	2958	1	4306	0	5654	1	7002	0
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267	1	1615	0	2963	1	4311	0	5659	1	7007	0
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270	0	1618	1	2966	1	4314	0	5662	0	7010	0
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272	0	1620	0	2968	0	4316	0	5664	0	7012	0
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287	1	1635	1	2983	0	4331	1	5679	1	7027	1
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294	0	1642	1	2990	0	4338	0	5686	1	7034	0
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296	0	1644	1	2992	1	4340	1	5688	1	7036	0
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304	0	1652	0	3000	0	4348	1	5696	1	7044	1
305	1	1653	1	3001	0	4349	0	5697	1	7045	0
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310	0	1658	1	3006	0	4354	0	5702	1	7050	1
311	0	1659	1	3007	0	4355	1	5703	0	7051	1
312	1	1660	0	3008	1	4356	1	5704	1	7052	0
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315	0	1663	1	3011	1	4359	1	5707	1	7055	0
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321	1	1669	1	3017	1	4365	1	5713	0	7061	0
322	0	1670	1	3018	1	4366	1	5714	0	7062	0
323	0	1671	0	3019	0	4367	0	5715	1	7063	1

324	0	1672	1	3020	0	4368	1	5716	0	7064	0
325	0	1673	0	3021	1	4369	0	5717	0	7065	1
326	1	1674	0	3022	1	4370	0	5718	0	7066	0
327	0	1675	0	3023	0	4371	1	5719	1	7067	0
328	1	1676	0	3024	1	4372	0	5720	0	7068	1
329	0	1677	0	3025	1	4373	1	5721	1	7069	0
330	0	1678	1	3026	1	4374	1	5722	0	7070	1
331	0	1679	0	3027	0	4375	1	5723	1	7071	1
332	1	1680	1	3028	0	4376	0	5724	1	7072	1
333	0	1681	0	3029	0	4377	1	5725	1	7073	1
334	0	1682	0	3030	0	4378	0	5726	1	7074	0
335	1	1683	1	3031	0	4379	0	5727	0	7075	0
336	1	1684	1	3032	1	4380	0	5728	1	7076	1
337	0	1685	0	3033	0	4381	0	5729	1	7077	0
338	1	1686	1	3034	1	4382	1	5730	1	7078	0
339	0	1687	0	3035	1	4383	0	5731	0	7079	1
340	0	1688	0	3036	0	4384	0	5732	0	7080	0
341	1	1689	1	3037	0	4385	0	5733	1	7081	0
342	0	1690	0	3038	1	4386	1	5734	1	7082	1
343	0	1691	0	3039	0	4387	0	5735	0	7083	1
344	0	1692	0	3040	0	4388	1	5736	0	7084	0
345	1	1693	1	3041	0	4389	1	5737	1	7085	0
346	0	1694	0	3042	0	4390	0	5738	0	7086	0
347	1	1695	0	3043	0	4391	0	5739	1	7087	0
348	1	1696	0	3044	0	4392	1	5740	0	7088	0
349	1	1697	1	3045	1	4393	0	5741	0	7089	0
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351	1	1699	1	3047	1	4395	0	5743	0	7091	1
352	0	1700	0	3048	0	4396	1	5744	1	7092	1
353	0	1701	0	3049	1	4397	0	5745	0	7093	0
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356	0	1704	0	3052	0	4400	1	5748	0	7096	1
357	1	1705	0	3053	0	4401	1	5749	1	7097	0
358	0	1706	1	3054	0	4402	1	5750	0	7098	1
359	0	1707	0	3055	0	4403	0	5751	0	7099	0
360	0	1708	1	3056	0	4404	1	5752	1	7100	0
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362	0	1710	1	3058	0	4406	1	5754	0	7102	1
363	1	1711	1	3059	0	4407	0	5755	0	7103	0
364	1	1712	1	3060	1	4408	1	5756	0	7104	1
365	1	1713	0	3061	1	4409	1	5757	1	7105	1
366	0	1714	0	3062	0	4410	0	5758	0	7106	0
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370	0	1718	0	3066	0	4414	0	5762	0	7110	0
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373	0	1721	0	3069	1	4417	0	5765	1	7113	0
374	0	1722	1	3070	1	4418	0	5766	0	7114	1
375	1	1723	0	3071	0	4419	0	5767	0	7115	0
376	1	1724	0	3072	1	4420	0	5768	1	7116	1
377	0	1725	1	3073	1	4421	0	5769	1	7117	0
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379	1	1727	0	3075	1	4423	0	5771	1	7119	1
380	0	1728	1	3076	1	4424	0	5772	1	7120	1
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384	0	1732	0	3080	1	4428	0	5776	1	7124	0
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389	1	1737	1	3085	0	4433	1	5781	0	7129	0
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391	1	1739	1	3087	1	4435	1	5783	1	7131	1
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394	0	1742	1	3090	1	4438	0	5786	1	7134	1
395	1	1743	0	3091	1	4439	0	5787	0	7135	1
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405	1	1753	0	3101	0	4449	0	5797	1	7145	0
406	0	1754	0	3102	1	4450	1	5798	0	7146	1
407	1	1755	0	3103	0	4451	1	5799	0	7147	0
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410	1	1758	1	3106	1	4454	1	5802	1	7150	0
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412	1	1760	1	3108	0	4456	1	5804	1	7152	1
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414	0	1762	1	3110	0	4458	0	5806	1	7154	0
415	1	1763	1	3111	1	4459	1	5807	1	7155	0
416	1	1764	1	3112	0	4460	1	5808	0	7156	0
417	0	1765	0	3113	0	4461	1	5809	1	7157	0
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419	0	1767	0	3115	0	4463	0	5811	0	7159	1
420	1	1768	0	3116	1	4464	0	5812	1	7160	0
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423	1	1771	1	3119	1	4467	0	5815	0	7163	0
424	0	1772	0	3120	1	4468	0	5816	0	7164	1
425	1	1773	1	3121	0	4469	1	5817	1	7165	1
426	1	1774	0	3122	1	4470	1	5818	0	7166	0
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428	0	1776	0	3124	1	4472	0	5820	0	7168	1
429	0	1777	1	3125	1	4473	1	5821	1	7169	0
430	0	1778	1	3126	1	4474	1	5822	1	7170	1
431	0	1779	1	3127	0	4475	1	5823	0	7171	1
432	1	1780	0	3128	1	4476	1	5824	0	7172	0
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434	1	1782	0	3130	1	4478	1	5826	1	7174	0
435	0	1783	1	3131	0	4479	0	5827	1	7175	1
436	1	1784	0	3132	0	4480	0	5828	1	7176	1
437	0	1785	0	3133	1	4481	0	5829	0	7177	1
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439	0	1787	1	3135	0	4483	0	5831	0	7179	1
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445	0	1793	1	3141	1	4489	0	5837	0	7185	0
446	1	1794	1	3142	0	4490	1	5838	0	7186	0
447	1	1795	0	3143	1	4491	0	5839	0	7187	1
448	1	1796	0	3144	1	4492	0	5840	0	7188	1
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453	0	1801	1	3149	1	4497	0	5845	1	7193	1
454	1	1802	1	3150	0	4498	0	5846	1	7194	0
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456	0	1804	1	3152	0	4500	1	5848	0	7196	1
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458	1	1806	1	3154	1	4502	1	5850	1	7198	1
459	0	1807	0	3155	1	4503	0	5851	0	7199	1
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462	1	1810	0	3158	0	4506	1	5854	1	7202	0
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479	1	1827	1	3175	1	4523	1	5871	0	7219	0
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487	1	1835	1	3183	1	4531	1	5879	0	7227	0
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504	0	1852	0	3200	0	4548	0	5896	1	7244	1
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506	1	1854	1	3202	0	4550	1	5898	1	7246	1
507	0	1855	1	3203	1	4551	0	5899	1	7247	1
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546	1	1894	1	3242	1	4590	1	5938	0	7286	0
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552	0	1900	0	3248	1	4596	0	5944	1	7292	0
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556	0	1904	0	3252	0	4600	1	5948	0	7296	1
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558	0	1906	0	3254	1	4602	0	5950	0	7298	0
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561	1	1909	1	3257	1	4605	0	5953	1	7301	1
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563	1	1911	0	3259	1	4607	0	5955	0	7303	0
564	0	1912	1	3260	0	4608	0	5956	0	7304	0
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567	1	1915	0	3263	0	4611	0	5959	0	7307	1
568	1	1916	0	3264	1	4612	1	5960	1	7308	0
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571	1	1919	0	3267	1	4615	1	5963	1	7311	1
572	1	1920	1	3268	0	4616	0	5964	1	7312	0
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576	1	1924	1	3272	0	4620	0	5968	0	7316	1
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582	1	1930	1	3278	1	4626	1	5974	0	7322	1
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585	1	1933	1	3281	1	4629	0	5977	1	7325	0
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595	0	1943	0	3291	0	4639	1	5987	1	7335	0
596	1	1944	0	3292	0	4640	1	5988	0	7336	1
597	0	1945	1	3293	1	4641	0	5989	1	7337	0
598	1	1946	0	3294	1	4642	0	5990	1	7338	0
599	0	1947	0	3295	0	4643	0	5991	0	7339	1
600	1	1948	0	3296	1	4644	0	5992	0	7340	1
601	1	1949	1	3297	0	4645	0	5993	0	7341	0
602	1	1950	0	3298	0	4646	1	5994	1	7342	0
603	0	1951	1	3299	0	4647	1	5995	1	7343	1
604	1	1952	0	3300	1	4648	1	5996	1	7344	1
605	1	1953	1	3301	1	4649	0	5997	1	7345	1
606	0	1954	0	3302	0	4650	0	5998	1	7346	1
607	0	1955	1	3303	0	4651	1	5999	1	7347	0
608	0	1956	1	3304	0	4652	1	6000	1	7348	0
609	1	1957	0	3305	0	4653	1	6001	0	7349	0
610	1	1958	1	3306	0	4654	0	6002	0	7350	1
611	1	1959	1	3307	1	4655	1	6003	1	7351	1
612	0	1960	1	3308	0	4656	1	6004	0	7352	1
613	0	1961	1	3309	0	4657	1	6005	1	7353	1
614	0	1962	1	3310	0	4658	0	6006	1	7354	0
615	0	1963	1	3311	0	4659	0	6007	1	7355	1
616	1	1964	0	3312	1	4660	0	6008	1	7356	0
617	0	1965	1	3313	0	4661	1	6009	1	7357	0
618	0	1966	1	3314	0	4662	0	6010	0	7358	1
619	1	1967	0	3315	1	4663	0	6011	0	7359	1
620	0	1968	0	3316	1	4664	1	6012	0	7360	0
621	0	1969	1	3317	0	4665	0	6013	0	7361	0
622	0	1970	1	3318	1	4666	1	6014	0	7362	0
623	0	1971	1	3319	0	4667	0	6015	1	7363	1
624	1	1972	1	3320	1	4668	1	6016	1	7364	1
625	0	1973	1	3321	0	4669	0	6017	0	7365	1
626	0	1974	0	3322	1	4670	1	6018	1	7366	0
627	1	1975	0	3323	1	4671	1	6019	0	7367	0
628	0	1976	1	3324	0	4672	0	6020	1	7368	1
629	0	1977	1	3325	1	4673	0	6021	1	7369	1
630	0	1978	0	3326	1	4674	1	6022	0	7370	1
631	1	1979	0	3327	1	4675	0	6023	1	7371	0

632	0	1980	0	3328	0	4676	0	6024	0	7372	0
633	0	1981	1	3329	0	4677	1	6025	0	7373	1
634	0	1982	0	3330	1	4678	0	6026	0	7374	1
635	1	1983	1	3331	1	4679	1	6027	1	7375	1
636	0	1984	1	3332	0	4680	1	6028	1	7376	0
637	0	1985	1	3333	0	4681	1	6029	1	7377	0
638	1	1986	1	3334	1	4682	0	6030	1	7378	1
639	1	1987	0	3335	1	4683	1	6031	0	7379	1
640	0	1988	0	3336	1	4684	0	6032	1	7380	0
641	0	1989	0	3337	1	4685	0	6033	1	7381	1
642	0	1990	1	3338	0	4686	1	6034	1	7382	0
643	1	1991	0	3339	1	4687	1	6035	1	7383	0
644	0	1992	1	3340	1	4688	1	6036	0	7384	1
645	0	1993	0	3341	1	4689	1	6037	1	7385	1
646	1	1994	0	3342	1	4690	0	6038	1	7386	1
647	1	1995	0	3343	1	4691	0	6039	0	7387	0
648	0	1996	1	3344	1	4692	0	6040	0	7388	1
649	0	1997	0	3345	1	4693	1	6041	1	7389	1
650	0	1998	0	3346	1	4694	1	6042	0	7390	1
651	1	1999	1	3347	1	4695	0	6043	0	7391	1
652	1	2000	0	3348	0	4696	1	6044	0	7392	0
653	1	2001	0	3349	1	4697	0	6045	0	7393	0
654	1	2002	0	3350	0	4698	0	6046	1	7394	1
655	1	2003	0	3351	0	4699	0	6047	1	7395	0
656	0	2004	1	3352	1	4700	0	6048	0	7396	0
657	0	2005	0	3353	1	4701	0	6049	0	7397	0
658	1	2006	0	3354	0	4702	1	6050	1	7398	0
659	0	2007	1	3355	1	4703	1	6051	1	7399	1
660	0	2008	0	3356	0	4704	1	6052	1	7400	1
661	0	2009	0	3357	0	4705	1	6053	1	7401	1
662	1	2010	0	3358	0	4706	0	6054	0	7402	1
663	1	2011	0	3359	1	4707	1	6055	0	7403	0
664	0	2012	0	3360	0	4708	0	6056	0	7404	1
665	0	2013	1	3361	1	4709	0	6057	0	7405	1
666	1	2014	1	3362	1	4710	0	6058	0	7406	0
667	0	2015	0	3363	0	4711	1	6059	0	7407	1
668	1	2016	1	3364	1	4712	0	6060	1	7408	0
669	0	2017	1	3365	1	4713	1	6061	0	7409	1
670	1	2018	1	3366	0	4714	1	6062	0	7410	1
671	0	2019	0	3367	0	4715	1	6063	0	7411	1
672	0	2020	1	3368	0	4716	0	6064	0	7412	0
673	0	2021	0	3369	0	4717	1	6065	1	7413	1
674	1	2022	1	3370	0	4718	1	6066	0	7414	0
675	0	2023	0	3371	1	4719	1	6067	0	7415	1

676	1	2024	0	3372	1	4720	1	6068	0	7416	0
677	0	2025	1	3373	0	4721	1	6069	1	7417	0
678	1	2026	0	3374	0	4722	1	6070	1	7418	1
679	1	2027	0	3375	1	4723	1	6071	1	7419	0
680	0	2028	1	3376	0	4724	0	6072	0	7420	0
681	0	2029	1	3377	0	4725	0	6073	0	7421	1
682	1	2030	1	3378	0	4726	0	6074	1	7422	1
683	0	2031	1	3379	1	4727	0	6075	0	7423	1
684	0	2032	1	3380	1	4728	0	6076	0	7424	0
685	1	2033	1	3381	1	4729	1	6077	1	7425	0
686	0	2034	1	3382	1	4730	0	6078	1	7426	1
687	1	2035	1	3383	0	4731	1	6079	0	7427	0
688	1	2036	1	3384	0	4732	1	6080	0	7428	1
689	0	2037	0	3385	0	4733	0	6081	1	7429	1
690	1	2038	0	3386	1	4734	1	6082	0	7430	1
691	0	2039	1	3387	1	4735	1	6083	1	7431	0
692	0	2040	1	3388	0	4736	0	6084	1	7432	1
693	1	2041	0	3389	1	4737	0	6085	1	7433	0
694	1	2042	0	3390	1	4738	0	6086	0	7434	1
695	0	2043	0	3391	1	4739	1	6087	0	7435	0
696	0	2044	0	3392	1	4740	0	6088	0	7436	0
697	0	2045	0	3393	0	4741	0	6089	0	7437	1
698	0	2046	1	3394	0	4742	1	6090	1	7438	1
699	1	2047	0	3395	1	4743	0	6091	0	7439	1
700	0	2048	1	3396	0	4744	1	6092	1	7440	1
701	1	2049	0	3397	1	4745	1	6093	0	7441	1
702	0	2050	1	3398	0	4746	0	6094	1	7442	0
703	1	2051	1	3399	0	4747	0	6095	0	7443	1
704	0	2052	1	3400	0	4748	0	6096	0	7444	1
705	0	2053	1	3401	1	4749	1	6097	0	7445	0
706	1	2054	1	3402	1	4750	0	6098	1	7446	1
707	1	2055	1	3403	1	4751	1	6099	1	7447	0
708	1	2056	0	3404	0	4752	1	6100	0	7448	1
709	1	2057	0	3405	1	4753	0	6101	0	7449	1
710	1	2058	0	3406	0	4754	0	6102	1	7450	0
711	0	2059	0	3407	1	4755	1	6103	1	7451	0
712	1	2060	1	3408	1	4756	1	6104	1	7452	0
713	1	2061	1	3409	0	4757	1	6105	1	7453	1
714	1	2062	0	3410	1	4758	0	6106	1	7454	1
715	1	2063	1	3411	0	4759	0	6107	0	7455	1
716	1	2064	0	3412	0	4760	0	6108	0	7456	0
717	0	2065	1	3413	1	4761	1	6109	0	7457	1
718	1	2066	1	3414	0	4762	0	6110	1	7458	1
719	0	2067	0	3415	1	4763	0	6111	0	7459	1

720	0	2068	1	3416	0	4764	1	6112	0	7460	1
721	0	2069	1	3417	0	4765	0	6113	1	7461	1
722	1	2070	0	3418	0	4766	0	6114	1	7462	1
723	1	2071	0	3419	0	4767	1	6115	0	7463	1
724	0	2072	1	3420	1	4768	0	6116	1	7464	1
725	0	2073	1	3421	0	4769	1	6117	0	7465	0
726	1	2074	0	3422	0	4770	1	6118	0	7466	1
727	0	2075	1	3423	0	4771	1	6119	0	7467	0
728	1	2076	1	3424	0	4772	1	6120	0	7468	0
729	1	2077	0	3425	0	4773	0	6121	1	7469	0
730	0	2078	0	3426	0	4774	1	6122	1	7470	1
731	1	2079	1	3427	1	4775	0	6123	1	7471	0
732	1	2080	1	3428	0	4776	1	6124	0	7472	0
733	0	2081	0	3429	1	4777	0	6125	1	7473	0
734	1	2082	0	3430	0	4778	0	6126	0	7474	0
735	0	2083	0	3431	0	4779	1	6127	0	7475	1
736	1	2084	1	3432	1	4780	1	6128	0	7476	1
737	1	2085	0	3433	1	4781	1	6129	1	7477	0
738	1	2086	0	3434	0	4782	1	6130	0	7478	0
739	0	2087	0	3435	1	4783	0	6131	1	7479	1
740	0	2088	1	3436	1	4784	1	6132	0	7480	1
741	0	2089	1	3437	0	4785	1	6133	0	7481	0
742	1	2090	1	3438	1	4786	1	6134	1	7482	0
743	0	2091	1	3439	1	4787	1	6135	0	7483	0
744	1	2092	0	3440	0	4788	0	6136	0	7484	1
745	1	2093	0	3441	1	4789	1	6137	0	7485	1
746	0	2094	1	3442	1	4790	0	6138	0	7486	0
747	1	2095	0	3443	1	4791	0	6139	1	7487	0
748	0	2096	0	3444	0	4792	1	6140	1	7488	1
749	0	2097	0	3445	0	4793	1	6141	1	7489	1
750	0	2098	1	3446	1	4794	1	6142	0	7490	1
751	0	2099	1	3447	0	4795	1	6143	1	7491	0
752	0	2100	0	3448	1	4796	1	6144	0	7492	1
753	1	2101	0	3449	0	4797	1	6145	0	7493	0
754	1	2102	0	3450	0	4798	1	6146	0	7494	0
755	1	2103	1	3451	0	4799	1	6147	1	7495	1
756	1	2104	0	3452	1	4800	0	6148	1	7496	0
757	0	2105	1	3453	1	4801	0	6149	1	7497	1
758	0	2106	1	3454	0	4802	1	6150	1	7498	0
759	1	2107	0	3455	0	4803	0	6151	0	7499	1
760	1	2108	0	3456	0	4804	1	6152	0	7500	1
761	0	2109	1	3457	1	4805	0	6153	1	7501	0
762	1	2110	0	3458	1	4806	1	6154	0	7502	1
763	0	2111	0	3459	1	4807	1	6155	0	7503	1

764	0	2112	1	3460	1	4808	1	6156	0	7504	0
765	0	2113	0	3461	1	4809	0	6157	1	7505	0
766	0	2114	0	3462	1	4810	0	6158	1	7506	0
767	1	2115	0	3463	1	4811	0	6159	1	7507	0
768	0	2116	1	3464	0	4812	1	6160	1	7508	0
769	0	2117	0	3465	1	4813	1	6161	1	7509	0
770	1	2118	1	3466	0	4814	0	6162	0	7510	1
771	1	2119	1	3467	0	4815	0	6163	1	7511	1
772	1	2120	0	3468	1	4816	1	6164	1	7512	0
773	1	2121	1	3469	0	4817	0	6165	0	7513	0
774	1	2122	0	3470	1	4818	1	6166	1	7514	0
775	0	2123	1	3471	1	4819	0	6167	1	7515	1
776	0	2124	1	3472	1	4820	1	6168	1	7516	0
777	0	2125	1	3473	0	4821	0	6169	1	7517	1
778	1	2126	0	3474	1	4822	0	6170	1	7518	1
779	0	2127	1	3475	0	4823	0	6171	1	7519	1
780	0	2128	0	3476	1	4824	1	6172	0	7520	0
781	1	2129	1	3477	0	4825	1	6173	0	7521	1
782	0	2130	0	3478	1	4826	1	6174	0	7522	0
783	1	2131	0	3479	1	4827	1	6175	1	7523	0
784	0	2132	1	3480	1	4828	0	6176	1	7524	1
785	0	2133	1	3481	1	4829	1	6177	0	7525	0
786	0	2134	1	3482	1	4830	1	6178	1	7526	0
787	1	2135	0	3483	1	4831	1	6179	1	7527	1
788	1	2136	0	3484	1	4832	0	6180	1	7528	0
789	0	2137	1	3485	1	4833	1	6181	0	7529	1
790	1	2138	0	3486	1	4834	0	6182	1	7530	1
791	1	2139	0	3487	0	4835	1	6183	0	7531	1
792	0	2140	1	3488	0	4836	1	6184	0	7532	1
793	1	2141	0	3489	0	4837	0	6185	0	7533	0
794	1	2142	0	3490	1	4838	1	6186	0	7534	1
795	1	2143	1	3491	0	4839	1	6187	0	7535	1
796	0	2144	0	3492	1	4840	1	6188	1	7536	0
797	1	2145	1	3493	1	4841	1	6189	0	7537	0
798	1	2146	1	3494	0	4842	1	6190	1	7538	0
799	1	2147	0	3495	0	4843	0	6191	0	7539	1
800	1	2148	1	3496	1	4844	1	6192	1	7540	0
801	1	2149	0	3497	1	4845	1	6193	1	7541	0
802	1	2150	1	3498	0	4846	0	6194	0	7542	1
803	0	2151	0	3499	0	4847	1	6195	0	7543	1
804	1	2152	1	3500	1	4848	0	6196	0	7544	0
805	0	2153	0	3501	1	4849	0	6197	0	7545	0
806	0	2154	0	3502	0	4850	0	6198	1	7546	0
807	1	2155	1	3503	1	4851	0	6199	0	7547	1

808	1	2156	1	3504	0	4852	0	6200	1	7548	0
809	1	2157	1	3505	1	4853	0	6201	0	7549	1
810	1	2158	0	3506	1	4854	0	6202	0	7550	0
811	0	2159	0	3507	1	4855	0	6203	1	7551	1
812	0	2160	0	3508	1	4856	0	6204	0	7552	0
813	1	2161	1	3509	0	4857	1	6205	1	7553	0
814	1	2162	1	3510	1	4858	1	6206	0	7554	0
815	0	2163	0	3511	0	4859	1	6207	1	7555	1
816	1	2164	1	3512	0	4860	0	6208	0	7556	1
817	1	2165	0	3513	1	4861	1	6209	0	7557	0
818	1	2166	0	3514	1	4862	0	6210	1	7558	0
819	0	2167	1	3515	1	4863	0	6211	1	7559	0
820	1	2168	1	3516	1	4864	0	6212	1	7560	0
821	1	2169	0	3517	0	4865	1	6213	1	7561	0
822	1	2170	0	3518	1	4866	1	6214	1	7562	0
823	1	2171	0	3519	0	4867	0	6215	0	7563	1
824	1	2172	0	3520	1	4868	0	6216	1	7564	1
825	0	2173	0	3521	1	4869	0	6217	1	7565	0
826	1	2174	1	3522	0	4870	1	6218	1	7566	1
827	1	2175	1	3523	1	4871	1	6219	1	7567	1
828	1	2176	1	3524	0	4872	0	6220	0	7568	0
829	1	2177	0	3525	1	4873	1	6221	1	7569	1
830	0	2178	0	3526	1	4874	1	6222	0	7570	0
831	1	2179	1	3527	1	4875	1	6223	0	7571	1
832	0	2180	1	3528	0	4876	1	6224	0	7572	0
833	0	2181	1	3529	1	4877	1	6225	0	7573	1
834	0	2182	1	3530	1	4878	1	6226	1	7574	0
835	0	2183	1	3531	0	4879	0	6227	0	7575	0
836	1	2184	0	3532	1	4880	1	6228	1	7576	0
837	0	2185	1	3533	0	4881	0	6229	0	7577	0
838	0	2186	0	3534	0	4882	0	6230	1	7578	0
839	0	2187	0	3535	1	4883	1	6231	1	7579	1
840	0	2188	0	3536	1	4884	0	6232	1	7580	1
841	1	2189	1	3537	0	4885	1	6233	0	7581	1
842	0	2190	0	3538	0	4886	0	6234	0	7582	0
843	0	2191	1	3539	0	4887	1	6235	1	7583	1
844	0	2192	0	3540	1	4888	1	6236	0	7584	0
845	1	2193	0	3541	1	4889	0	6237	0	7585	0
846	1	2194	0	3542	0	4890	0	6238	1	7586	1
847	0	2195	1	3543	0	4891	0	6239	0	7587	0
848	0	2196	0	3544	0	4892	1	6240	1	7588	1
849	1	2197	1	3545	1	4893	0	6241	1	7589	0
850	1	2198	0	3546	0	4894	0	6242	0	7590	0
851	0	2199	1	3547	0	4895	1	6243	1	7591	1

852	0	2200	1	3548	1	4896	0	6244	1	7592	1
853	0	2201	0	3549	0	4897	1	6245	1	7593	0
854	1	2202	0	3550	1	4898	1	6246	1	7594	1
855	0	2203	0	3551	1	4899	1	6247	1	7595	1
856	0	2204	1	3552	0	4900	0	6248	0	7596	0
857	1	2205	1	3553	1	4901	1	6249	1	7597	1
858	1	2206	0	3554	1	4902	0	6250	0	7598	0
859	0	2207	1	3555	1	4903	1	6251	1	7599	0
860	1	2208	1	3556	0	4904	1	6252	0	7600	0
861	1	2209	1	3557	1	4905	0	6253	0	7601	1
862	1	2210	1	3558	1	4906	1	6254	0	7602	1
863	1	2211	0	3559	1	4907	1	6255	0	7603	1
864	1	2212	0	3560	0	4908	0	6256	0	7604	1
865	0	2213	1	3561	0	4909	0	6257	1	7605	0
866	0	2214	1	3562	1	4910	0	6258	0	7606	1
867	1	2215	0	3563	1	4911	0	6259	1	7607	1
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869	0	2217	0	3565	0	4913	0	6261	1	7609	0
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871	1	2219	1	3567	1	4915	0	6263	1	7611	1
872	1	2220	0	3568	0	4916	1	6264	0	7612	1
873	1	2221	0	3569	1	4917	0	6265	1	7613	1
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875	1	2223	1	3571	0	4919	0	6267	0	7615	1
876	0	2224	1	3572	0	4920	1	6268	0	7616	0
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880	0	2228	0	3576	0	4924	1	6272	0	7620	0
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885	1	2233	1	3581	0	4929	0	6277	1	7625	1
886	0	2234	0	3582	1	4930	0	6278	0	7626	0
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888	0	2236	1	3584	1	4932	1	6280	0	7628	1
889	0	2237	0	3585	0	4933	1	6281	1	7629	0
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891	1	2239	0	3587	1	4935	0	6283	0	7631	0
892	1	2240	1	3588	1	4936	0	6284	1	7632	1
893	0	2241	0	3589	1	4937	1	6285	1	7633	0
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946	1	2294	0	3642	1	4990	0	6338	0	7686	1
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967	1	2315	1	3663	0	5011	0	6359	0	7707	0
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