

PROOF OF THE CONTINUED FRACTION CONJECTURE FOR

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

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

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

$$\begin{aligned} p_0(z) &= z^{21} + z^{20} + z^{18} + z^{17} + z^{14} + z^{13} + z^{11} + z^9 + z^8 + z^6 + z^2 + z + 1, \\ p_1(z) &= z^{26} + z^{24} + z^{23} + z^{21} + z^{20} + z^{19} + z^{17} + z^{15} + z^{14} + z^{10} + z^9 + z^6 + z^4 \\ &\quad + z^3 + z^2 + z, \\ p_2(z) &= z^{28} + z^{24} + z^{20} + z^{18} + z^{14} + z^{12} + z^8 + z^6 + z^2 + 1, \\ p_3(z) &= z^{26} + z^{24} + z^{23} + z^{21} + z^{20} + z^{19} + z^{17} + z^{15} + z^{14} + z^{10} + z^9 + z^6 + z^4 \\ &\quad + z^3 + z^2 + z, \\ p_4(z) &= z^{24} + z^{21} + z^{20} + z^{17} + z^{16} + z^{13} + z^{11} + z^9 + z + 1, \end{aligned}$$

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

$$\begin{aligned} p_0(z) &= z^{21} + z^{18} + z^{17} + z^{14} + z^{13} + z^{12} + z^{11} + z^9 + z^8 + z^6 + z^4 + z^2 + z + 1, \\ p_1(z) &= z^{26} + z^{24} + z^{23} + z^{21} + z^{20} + z^{19} + z^{17} + z^{15} + z^{14} + z^{10} + z^9 + z^6 + z^4 \\ &\quad + z^3 + z^2 + z, \\ p_2(z) &= z^{28} + z^{24} + z^{20} + z^{18} + z^{14} + z^{12} + z^8 + z^6 + z^2 + 1, \\ p_3(z) &= z^{26} + z^{24} + z^{23} + z^{21} + z^{20} + z^{19} + z^{17} + z^{15} + z^{14} + z^{10} + z^9 + z^6 + z^4 \\ &\quad + z^3 + z^2 + z, \\ p_4(z) &= z^{24} + z^{21} + z^{17} + z^{16} + z^{13} + z^{12} + z^{11} + z^9 + z^4 + z + 1. \end{aligned}$$

2. PROOF

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

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

By the basic properties of continued fractions, we have

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

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

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

where $\bar{\mathbf{t}}$ 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

$$(175, 175, 175, 175, 175)$$

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 630 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 630, 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 770 and substitute it for y in $Q(x, y)$. We get a series of valuation less than 770, 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.*

$$\begin{aligned} M^e[:14u] &= M^e[:7u] + x^{3u} M^e[:4u] + x^{4u} M^e[:3u] + x^{6u} M^e[:u] + x^{3u} M^e[:7u] \\ &\quad + x^{6u} M^e[:4u] + x^{7u} M^e[:3u] + x^{9u} M^e[:u] + x^{4u} M^e[:7u] \\ &\quad + x^{7u} M^e[:4u] + x^{8u} M^e[:3u] + x^{10u} M^e[:u] + x^{8u} M^e[:6u] \\ &\quad + x^{11u} M^e[:3u] + x^{9u} M^e[:5u] + x^{10u} M^e[:4u] + x^{13u} M^e[:u] \end{aligned}$$

$$\begin{aligned}
& + (x^{7u} + x^{10u} + x^{11u})R^e, \\
W^e[:14u] &= W^e[:7u] + x^{3u}W^e[:4u] + x^{4u}W^e[:3u] + x^{6u}W^e[:u] + x^{3u}W^e[:7u] \\
& + x^{6u}W^e[:4u] + x^{7u}W^e[:3u] + x^{9u}W^e[:u] + x^{4u}W^e[:7u] \\
& + x^{7u}W^e[:4u] + x^{8u}W^e[:3u] + x^{10u}W^e[:u] + x^{8u}W^e[:6u] \\
& + x^{11u}W^e[:3u] + x^{9u}W^e[:5u] + x^{10u}W^e[:4u] + x^{13u}W^e[:u] \\
& + (x^{7u} + x^{10u} + x^{11u})R^e.
\end{aligned}$$

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

$$\begin{aligned}
M^o[:14u] &= M^o[:7u] + x^{3u}M^o[:4u] + x^{4u}M^o[:3u] + x^{6u}M^o[:u] + x^{3u}M^o[:7u] \\
& + x^{6u}M^o[:4u] + x^{7u}M^o[:3u] + x^{9u}M^o[:u] + x^{4u}M^o[:7u] \\
& + x^{7u}M^o[:4u] + x^{8u}M^o[:3u] + x^{10u}M^o[:u] + x^{8u}M^o[:6u] \\
& + x^{11u}M^o[:3u] + x^{9u}M^o[:5u] + x^{10u}M^o[:4u] + x^{13u}M^o[:u] \\
& + (x^{7u} + x^{10u} + x^{11u})R^o, \\
W^o[:14u] &= W^o[:7u] + x^{3u}W^o[:4u] + x^{4u}W^o[:3u] + x^{6u}W^o[:u] + x^{3u}W^o[:7u] \\
& + x^{6u}W^o[:4u] + x^{7u}W^o[:3u] + x^{9u}W^o[:u] + x^{4u}W^o[:7u] \\
& + x^{7u}W^o[:4u] + x^{8u}W^o[:3u] + x^{10u}W^o[:u] + x^{8u}W^o[:6u] \\
& + x^{11u}W^o[:3u] + x^{9u}W^o[:5u] + x^{10u}W^o[:4u] + x^{13u}W^o[:u] \\
& + (x^{7u} + x^{10u} + x^{11u})R^o.
\end{aligned}$$

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

$$\begin{aligned}
T[:14u] &= T[:7u] + x^{3u}T[:4u] + x^{4u}T[:3u] + x^{6u}T[:u] + x^{3u}T[:7u] + x^{6u}T[:4u] \\
& + x^{7u}T[:3u] + x^{9u}T[:u] + x^{4u}T[:7u] + x^{7u}T[:4u] + x^{8u}T[:3u] \\
& + x^{10u}T[:u] + x^{8u}T[:6u] + x^{11u}T[:3u] + x^{9u}T[:5u] + x^{10u}T[:4u] \\
& + x^{13u}T[:u] + (x^{7u} + x^{10u} + x^{11u}).
\end{aligned}$$

The proof of the other 15 cases are similar. We break down the above identity into 7 parts:

$$\begin{aligned}
x^7u &= x^{6u}T[u:2u] + x^{4u}T[3u:4u] + x^{3u}T[4u:5u] + T[7u:8u], \\
0 &= x^{6u}T[2u:3u] + x^{4u}T[4u:5u] + x^{3u}T[5u:6u] + T[8u:9u], \\
0 &= x^{6u}T[3u:4u] + x^{4u}T[5u:6u] + x^{3u}T[6u:7u] + T[9u:10u], \\
x^10u &= x^{9u}T[u:2u] + x^{7u}T[3u:4u] + x^{4u}T[6u:7u] + T[10u:11u], \\
x^11u &= x^{11u}T[:u] + x^{10u}T[u:2u] + x^{9u}T[2u:3u] + x^{8u}T[3u:4u] \\
& + T[11u:12u], \\
0 &= x^{11u}T[u:2u] + x^{10u}T[2u:3u] + x^{9u}T[3u:4u] + x^{8u}T[4u:5u] \\
& + T[12u:13u], \\
0 &= x^{13u}T[:u] + x^{11u}T[2u:3u] + x^{10u}T[3u:4u] + x^{9u}T[4u:5u]
\end{aligned}$$

$$+ x^{8u}T[5u:6u] + T[13u:14u],$$

which can be rewritten as

$$(2.7) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[100w]_2] + T[[111w]_2],$$

$$(2.8) \quad 0 = T[[10w]_2] + T[[100w]_2] + T[[101w]_2] + T[[1000w]_2],$$

$$(2.9) \quad 0 = T[[11w]_2] + T[[101w]_2] + T[[110w]_2] + T[[1001w]_2],$$

$$(2.10) \quad 0 = T[[1w]_2] + T[[11w]_2] + T[[110w]_2] + T[[1010w]_2],$$

$$(2.11) \quad 0 = T[[w]_2] + T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[1011w]_2],$$

$$(2.12) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1100w]_2],$$

$$0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2]$$

$$(2.13) \quad + T[[1101w]_2],$$

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

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

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

$$(2.16) \quad 0 = T[[11w]_2] + T[[101w]_2] + T[[110w]_2] + T[[1001w]_2],$$

$$(2.17) \quad 1 = T[[1w]_2] + T[[11w]_2] + T[[110w]_2] + T[[1010w]_2],$$

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

$$(2.19) \quad 0 = T[[1w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[1100w]_2],$$

$$0 = T[[w]_2] + T[[10w]_2] + T[[11w]_2] + T[[100w]_2] + T[[101w]_2]$$

$$(2.20) \quad + T[[1101w]_2],$$

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

First we calculate an 2-automaton that generates T from its minimal polynomial and its first terms. This automaton has 10182 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 (2.20) can be written as

$$(2.21) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 111)),$$

$$(2.22) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.23) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 110)) + \tau(A(s, 1001)),$$

$$(2.24) \quad 0 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 110)) + \tau(A(s, 1010)),$$

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

$$(2.25) \quad + \tau(A(s, 1011)),$$

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

$$(2.26) \quad + \tau(A(s, 1100)),$$

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

$$(2.27) \quad + \tau(A(s, 101)) + \tau(A(s, 1101)),$$

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

$$(2.28) \quad 1 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 100)) + \tau(A(s, 111)),$$

$$(2.29) \quad 0 = \tau(A(s, 10)) + \tau(A(s, 100)) + \tau(A(s, 101)) + \tau(A(s, 1000)),$$

$$(2.30) \quad 0 = \tau(A(s, 11)) + \tau(A(s, 101)) + \tau(A(s, 110)) + \tau(A(s, 1001)),$$

$$(2.31) \quad 1 = \tau(A(s, 1)) + \tau(A(s, 11)) + \tau(A(s, 110)) + \tau(A(s, 1010)),$$

$$(2.32) \quad \begin{aligned} &1 = \tau(A(s, \epsilon)) + \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) \\ &\quad + \tau(A(s, 1011)), \end{aligned}$$

$$(2.33) \quad \begin{aligned} &0 = \tau(A(s, 1)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 1100)), \end{aligned}$$

$$(2.34) \quad \begin{aligned} &0 = \tau(A(s, \epsilon)) + \tau(A(s, 10)) + \tau(A(s, 11)) + \tau(A(s, 100)) \\ &\quad + \tau(A(s, 101)) + \tau(A(s, 1101)), \end{aligned}$$

for $s = A(i, 0^{2k})$. We find that $(A(i, 0^{46}), E_{46}) = (A(i, 0^{22}), E_{22})$, so that we only have to verify that identities (2.21) through (2.34) hold for $2 \leq k \leq 23$, which turns out to be true. $\square$

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

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

$$M_{2k} = M^e[:7u] + x^{3u}M^e[:4u] + x^{4u}M^e[:3u] + x^{6u}M^e[:u] + x^{7u}R^e,$$

$$W_{2k} = W^e[:7u] + x^{3u}W^e[:4u] + x^{4u}W^e[:3u] + x^{6u}W^e[:u] + x^{7u}R^e.$$

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

$$M_{2k+1} = M^o[:7u] + x^{3u}M^o[:4u] + x^{4u}M^o[:3u] + x^{6u}M^o[:u] + x^{7u}R^o,$$

$$W_{2k+1} = W^o[:7u] + x^{3u}W^o[:4u] + x^{4u}W^o[:3u] + x^{6u}W^o[:u] + x^{7u}R^o.$$

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

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

We give the proof of

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

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

$$(2.35) \quad \begin{aligned} &W_{2k}M_{2k} = (W^e[:7v] + x^{3v}W^e[:4v] + x^{4v}W^e[:3v] + x^{6v}W^e[:v] + x^{7v}R^e) \times (\\ &M^e[:7v] + x^{3v}M^e[:4v] + x^{4v}M^e[:3v] + x^{6v}M^e[:v] + x^{7v}R^e); \end{aligned}$$

Call this expression lhs . Note that both sides of identity M_{2k+1} have the same term of highest degree $x^{14v}R^o$. Therefore we only need to prove that their difference is $O(x^{14v})$. Using Lemma 2.1 it can be seen that the right side of identity M_{2k+1} is congruent, modulo x^{14v} , to

$$W^e[:14v]M^e[:14v] + x^{6v}W^e[:8v]M^e[:8v] + x^{8v}W^e[:6v]M^e[:6v]$$

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

For all $n \leq 14$, 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* (2.35) and *rhs* as polynomials in $\mathbb{F}_2[a_1, \dots, a_{14}, b_1, \dots, b_{14}, c][X]$. 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 $O(X^{14})$, 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

$$\begin{aligned} q_0(x) &= x^{28} + x^{27} + x^{26} + x^{22} + x^{20} + x^{19} + x^{17} + x^{15} + x^{14} + x^{11} + x^{10} + x^8 \\ &\quad + x^7, \\ q_1(x) &= x^{27} + x^{26} + x^{25} + x^{24} + x^{22} + x^{19} + x^{18} + x^{14} + x^{13} + x^{11} + x^9 + x^8 \\ &\quad + x^7 + x^5 + x^4 + x^2, \\ q_2(x) &= x^{28} + x^{26} + x^{22} + x^{20} + x^{16} + x^{14} + x^{10} + x^8 + x^4 + 1, \\ q_3(x) &= x^{27} + x^{26} + x^{25} + x^{24} + x^{22} + x^{19} + x^{18} + x^{14} + x^{13} + x^{11} + x^9 + x^8 \\ &\quad + x^7 + x^5 + x^4 + x^2, \\ q_4(x) &= x^{28} + x^{27} + x^{19} + x^{17} + x^{15} + x^{12} + x^{11} + x^8 + x^7 + x^4. \end{aligned}$$

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 216, and substitute it for y in $R(z, y)$, we get a series with valuation smaller than 216, 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 $\phi(M^e, 0, 0)$:

$$\begin{aligned} p_0(x) &= x^{156} + x^{154} + x^{148} + x^{146} + x^{140} + x^{134} + x^{132} + x^{130} + x^{126} + x^{120} \\ &\quad + x^{112} + x^{108} + x^{98} + x^{96} + x^{94} + x^{88} + x^{80} + x^{78} + x^{76} + x^{74} + x^{70} \\ &\quad + x^{66} + x^{64} + x^{62} + x^{60} + x^{54} + x^{52} + x^{50} + x^{48} + x^{38} + x^{34} + x^{32} \\ &\quad + x^{30} + x^{28} + x^{24}, \\ p_3(x) &= x^{154} + x^{150} + x^{142} + x^{140} + x^{136} + x^{128} + x^{122} + x^{120} + x^{118} + x^{116} \\ &\quad + x^{102} + x^{100} + x^{98} + x^{94} + x^{86} + x^{82} + x^{80} + x^{74} + x^{68} + x^{64} + x^{58} \\ &\quad + x^{56} + x^{50} + x^{46} + x^{44} + x^{42} + x^{36} + x^{34} + x^{26} + x^{20} + x^{18} + x^{16}, \\ p_6(x) &= x^{154} + x^{152} + x^{150} + x^{146} + x^{142} + x^{140} + x^{134} + x^{122} + x^{120} + x^{114} \\ &\quad + x^{112} + x^{110} + x^{102} + x^{100} + x^{98} + x^{92} + x^{90} + x^{88} + x^{82} + x^{80} \\ &\quad + x^{74} + x^{70} + x^{66} + x^{62} + x^{58} + x^{56} + x^{50} + x^{48} + x^{42} + x^{40} + x^{38} \\ &\quad + x^{36} + x^{34} + x^{30} + x^{22} + x^{18} + x^{16} + x^{14} + x^{12} + x^{10} + x^8 + 1, \\ p_9(x) &= x^{154} + x^{148} + x^{144} + x^{138} + x^{136} + x^{134} + x^{132} + x^{128} + x^{124} + x^{122} \\ &\quad + x^{112} + x^{110} + x^{108} + x^{98} + x^{96} + x^{92} + x^{86} + x^{80} + x^{76} + x^{74} + x^{64} \\ &\quad + x^{62} + x^{60} + x^{48} + x^{40} + x^{38} + x^{30} + x^{28} + x^{16} + x^{10} + x^8 + x^4, \\ p_{12}(x) &= x^{156} + x^{152} + x^{148} + x^{144} + x^{140} + x^{136} + x^{132} + x^{128} + x^{116} + x^{112} \\ &\quad + x^{108} + x^{104} + x^{100} + x^{96} + x^{68} + x^{64} + x^{60} + x^{56} + x^{44} + x^{40} + x^{28} \\ &\quad + x^{24} + x^{20} + x^{16} + x^4 + 1, \end{aligned}$$

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

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

$$\begin{aligned} p_0(x) &= x^{147} + x^{146} + x^{144} + x^{143} + x^{142} + x^{139} + x^{137} + x^{135} + x^{133} + x^{131} \\ &\quad + x^{129} + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{116} + x^{115} \\ &\quad + x^{113} + x^{112} + x^{111} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} + x^{102} \\ &\quad + x^{101} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{86} + x^{85} \end{aligned}$$

$$\begin{aligned}
& + x^{81} + x^{79} + x^{75} + x^{74} + x^{73} + x^{65} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} \\
& + x^{55} + x^{54} + x^{52} + x^{49} + x^{48} + x^{47} + x^{45} + x^{44} + x^{43} + x^{41} + x^{35} \\
& + x^{34} + x^{33}, \\
p_3(x) &= x^{138} + x^{122} + x^{114} + x^{112} + x^{108} + x^{106} + x^{96} + x^{92} + x^{88} + x^{84} \\
& + x^{74} + x^{64} + x^{60} + x^{58} + x^{56} + x^{52} + x^{48} + x^{44} + x^{42} + x^{24} + x^{20} \\
& + x^{18}, \\
p_6(x) &= x^{141} + x^{140} + x^{139} + x^{138} + x^{136} + x^{131} + x^{130} + x^{127} + x^{125} + x^{121} \\
& + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{106} \\
& + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{87} + x^{82} \\
& + x^{81} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{63} \\
& + x^{60} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} + x^{47} + x^{46} + x^{43} + x^{41} + x^{36} \\
& + x^{35} + x^{32} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{21} + x^{20} + x^{16} + x^{15} \\
& + x^{12}, \\
p_9(x) &= x^{144} + x^{142} + x^{140} + x^{138} + x^{134} + x^{128} + x^{126} + x^{120} + x^{118} + x^{116} \\
& + x^{114} + x^{112} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} \\
& + x^{88} + x^{86} + x^{82} + x^{78} + x^{74} + x^{72} + x^{58} + x^{56} + x^{54} + x^{48} + x^{40} \\
& + x^{34} + x^{30} + x^{26} + x^{24} + x^{22} + x^{18} + x^{14} + x^{12} + x^{10} + x^8 + x^6, \\
p_{12}(x) &= x^{147} + x^{146} + x^{142} + x^{140} + x^{139} + x^{136} + x^{131} + x^{130} + x^{127} + x^{124} \\
& + x^{119} + x^{118} + x^{115} + x^{112} + x^{99} + x^{98} + x^{94} + x^{92} + x^{91} + x^{88} \\
& + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{70} + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} \\
& + x^{56} + x^{55} + x^{54} + x^{50} + x^{48} + x^{47} + x^{44} + x^{39} + x^{38} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{27} + x^{24} + x^{19} + x^{18} + x^{15} + x^{12} + x^7 + x^6 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{146} + x^{144} + x^{143} + x^{142} + x^{139} + x^{137} + x^{135} + x^{133} + x^{131} \\
& + x^{129} + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{121} + x^{116} + x^{115} \\
& + x^{113} + x^{112} + x^{111} + x^{109} + x^{108} + x^{105} + x^{104} + x^{103} + x^{102} \\
& + x^{101} + x^{99} + x^{98} + x^{94} + x^{93} + x^{92} + x^{91} + x^{90} + x^{89} + x^{86} + x^{85} \\
& + x^{81} + x^{79} + x^{75} + x^{74} + x^{73} + x^{65} + x^{62} + x^{61} + x^{60} + x^{59} + x^{57} \\
& + x^{55} + x^{54} + x^{52} + x^{49} + x^{48} + x^{47} + x^{45} + x^{44} + x^{43} + x^{41} + x^{35} \\
& + x^{34} + x^{33}, \\
p_3(x) &= x^{138} + x^{122} + x^{114} + x^{112} + x^{108} + x^{106} + x^{96} + x^{92} + x^{88} + x^{84} \\
& + x^{74} + x^{64} + x^{60} + x^{58} + x^{56} + x^{52} + x^{48} + x^{44} + x^{42} + x^{24} + x^{20} \\
& + x^{18}, \\
p_6(x) &= x^{141} + x^{140} + x^{139} + x^{138} + x^{136} + x^{131} + x^{130} + x^{127} + x^{125} + x^{121}
\end{aligned}$$

$$\begin{aligned}
& + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{106} \\
& + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{87} + x^{82} \\
& + x^{81} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{63} \\
& + x^{60} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} + x^{47} + x^{46} + x^{43} + x^{41} + x^{36} \\
& + x^{35} + x^{32} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{21} + x^{20} + x^{16} + x^{15} \\
& + x^{12}, \\
p_9(x) &= x^{144} + x^{142} + x^{140} + x^{138} + x^{134} + x^{128} + x^{126} + x^{120} + x^{118} + x^{116} \\
& + x^{114} + x^{112} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} \\
& + x^{88} + x^{86} + x^{82} + x^{78} + x^{74} + x^{72} + x^{58} + x^{56} + x^{54} + x^{48} + x^{40} \\
& + x^{34} + x^{30} + x^{26} + x^{24} + x^{22} + x^{18} + x^{14} + x^{12} + x^{10} + x^8 + x^6, \\
p_{12}(x) &= x^{147} + x^{146} + x^{142} + x^{140} + x^{139} + x^{136} + x^{131} + x^{130} + x^{127} + x^{124} \\
& + x^{119} + x^{118} + x^{115} + x^{112} + x^{99} + x^{98} + x^{94} + x^{92} + x^{91} + x^{88} \\
& + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{70} + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} \\
& + x^{56} + x^{55} + x^{54} + x^{50} + x^{48} + x^{47} + x^{44} + x^{39} + x^{38} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{27} + x^{24} + x^{19} + x^{18} + x^{15} + x^{12} + x^7 + x^6 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{132} + x^{130} + x^{128} + x^{126} + x^{118} + x^{114} + x^{112} + x^{110} + x^{108} \\
& + x^{104} + x^{102} + x^{100} + x^{94} + x^{88} + x^{84} + x^{82} + x^{80} + x^{58} + x^{56} + x^{54} \\
& + x^{44} + x^{42}, \\
p_3(x) &= x^{136} + x^{134} + x^{130} + x^{128} + x^{122} + x^{118} + x^{110} + x^{108} + x^{106} + x^{100} \\
& + x^{96} + x^{94} + x^{88} + x^{68} + x^{66} + x^{58} + x^{56} + x^{54} + x^{46} + x^{44} + x^{36} \\
& + x^{34} + x^{30} + x^{26} + x^{22} + x^{18} + x^{16} + x^{12}, \\
p_6(x) &= x^{136} + x^{134} + x^{128} + x^{126} + x^{122} + x^{118} + x^{114} + x^{112} + x^{108} + x^{102} \\
& + x^{100} + x^{96} + x^{94} + x^{90} + x^{86} + x^{84} + x^{82} + x^{80} + x^{78} + x^{64} + x^{62} \\
& + x^{60} + x^{56} + x^{52} + x^{48} + x^{46} + x^{44} + x^{42} + x^{38} + x^{32} + x^{16} + x^{14} \\
& + x^{10} + x^8 + x^6 + 1, \\
p_9(x) &= x^{136} + x^{134} + x^{130} + x^{126} + x^{124} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} \\
& + x^{106} + x^{104} + x^{102} + x^{94} + x^{90} + x^{88} + x^{80} + x^{72} + x^{64} + x^{62} + x^{52} \\
& + x^{50} + x^{48} + x^{46} + x^{42} + x^{36} + x^{28} + x^{26} + x^{24} + x^{18} + x^{14} + x^{12} \\
& + x^8 + x^4, \\
p_{12}(x) &= x^{138} + x^{136} + x^{134} + x^{132} + x^{128} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} \\
& + x^{90} + x^{88} + x^{86} + x^{84} + x^{80} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{26} \\
& + x^{24} + x^{22} + x^{20} + x^{16} + x^{10} + x^8 + x^6 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{138} + x^{134} + x^{130} + x^{126} + x^{124} + x^{122} + x^{120} + x^{118} + x^{116} + x^{114} \\
&\quad + x^{100} + x^{92} + x^{86} + x^{84} + x^{82} + x^{78} + x^{68} + x^{62} + x^{58} + x^{56} + x^{54} \\
&\quad + x^{50} + x^{46} + x^{42} + x^{32} + x^{28} + x^{24}, \\
p_3(x) &= x^{136} + x^{134} + x^{132} + x^{130} + x^{122} + x^{120} + x^{118} + x^{110} + x^{108} + x^{106} \\
&\quad + x^{94} + x^{88} + x^{84} + x^{72} + x^{66} + x^{64} + x^{60} + x^{58} + x^{54} + x^{48} + x^{46} \\
&\quad + x^{40} + x^{36} + x^{34} + x^{30} + x^{28} + x^{26} + x^{22} + x^{18} + x^{16}, \\
p_6(x) &= x^{136} + x^{126} + x^{124} + x^{122} + x^{118} + x^{116} + x^{112} + x^{110} + x^{108} + x^{102} \\
&\quad + x^{100} + x^{98} + x^{94} + x^{92} + x^{90} + x^{84} + x^{74} + x^{70} + x^{68} + x^{58} + x^{54} \\
&\quad + x^{48} + x^{46} + x^{42} + x^{40} + x^{36} + x^{32} + x^{24} + x^{22} + x^{18} + x^{16} + x^{10} \\
&\quad + x^6 + 1, \\
p_9(x) &= x^{136} + x^{134} + x^{130} + x^{126} + x^{124} + x^{116} + x^{114} + x^{112} + x^{110} + x^{108} \\
&\quad + x^{106} + x^{104} + x^{102} + x^{94} + x^{90} + x^{88} + x^{80} + x^{72} + x^{64} + x^{62} + x^{52} \\
&\quad + x^{50} + x^{48} + x^{46} + x^{42} + x^{36} + x^{28} + x^{26} + x^{24} + x^{18} + x^{14} + x^{12} \\
&\quad + x^8 + x^4, \\
p_{12}(x) &= x^{138} + x^{136} + x^{134} + x^{132} + x^{128} + x^{122} + x^{120} + x^{118} + x^{116} + x^{112} \\
&\quad + x^{90} + x^{88} + x^{86} + x^{84} + x^{80} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{26} \\
&\quad + x^{24} + x^{22} + x^{20} + x^{16} + x^{10} + x^8 + x^6 + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{146} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{134} + x^{133} \\
&\quad + x^{129} + x^{127} + x^{124} + x^{123} + x^{122} + x^{119} + x^{117} + x^{116} + x^{114} \\
&\quad + x^{111} + x^{110} + x^{107} + x^{105} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} \\
&\quad + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{85} + x^{82} + x^{81} + x^{73} + x^{67} + x^{65} \\
&\quad + x^{64} + x^{60} + x^{59} + x^{58} + x^{53} + x^{48} + x^{45} + x^{43} + x^{41} + x^{40} + x^{37} \\
&\quad + x^{36} + x^{33}, \\
p_3(x) &= x^{138} + x^{122} + x^{114} + x^{112} + x^{108} + x^{106} + x^{96} + x^{92} + x^{88} + x^{84} \\
&\quad + x^{74} + x^{64} + x^{60} + x^{58} + x^{56} + x^{52} + x^{48} + x^{44} + x^{42} + x^{24} + x^{20} \\
&\quad + x^{18}, \\
p_6(x) &= x^{141} + x^{140} + x^{139} + x^{138} + x^{136} + x^{131} + x^{130} + x^{127} + x^{125} + x^{121} \\
&\quad + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{106} \\
&\quad + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{87} + x^{82} \\
&\quad + x^{81} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{63} \\
&\quad + x^{60} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} + x^{47} + x^{46} + x^{43} + x^{41} + x^{36} \\
&\quad + x^{35} + x^{32} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{21} + x^{20} + x^{16} + x^{15}
\end{aligned}$$

$$\begin{aligned}
& + x^{12}, \\
p_9(x) &= x^{144} + x^{142} + x^{140} + x^{138} + x^{134} + x^{128} + x^{126} + x^{120} + x^{118} + x^{116} \\
& + x^{114} + x^{112} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} \\
& + x^{88} + x^{86} + x^{82} + x^{78} + x^{74} + x^{72} + x^{58} + x^{56} + x^{54} + x^{48} + x^{40} \\
& + x^{34} + x^{30} + x^{26} + x^{24} + x^{22} + x^{18} + x^{14} + x^{12} + x^{10} + x^8 + x^6, \\
p_{12}(x) &= x^{147} + x^{146} + x^{142} + x^{140} + x^{139} + x^{136} + x^{131} + x^{130} + x^{127} + x^{124} \\
& + x^{119} + x^{118} + x^{115} + x^{112} + x^{99} + x^{98} + x^{94} + x^{92} + x^{91} + x^{88} \\
& + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{70} + x^{67} + x^{64} + x^{63} + x^{62} + x^{59} \\
& + x^{56} + x^{55} + x^{54} + x^{50} + x^{48} + x^{47} + x^{44} + x^{39} + x^{38} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{27} + x^{24} + x^{19} + x^{18} + x^{15} + x^{12} + x^7 + x^6 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{146} + x^{144} + x^{143} + x^{142} + x^{141} + x^{140} + x^{138} + x^{134} + x^{133} \\
& + x^{129} + x^{127} + x^{124} + x^{123} + x^{122} + x^{119} + x^{117} + x^{116} + x^{114} \\
& + x^{111} + x^{110} + x^{107} + x^{105} + x^{103} + x^{102} + x^{100} + x^{99} + x^{98} + x^{97} \\
& + x^{96} + x^{95} + x^{94} + x^{92} + x^{91} + x^{85} + x^{82} + x^{81} + x^{73} + x^{67} + x^{65} \\
& + x^{64} + x^{60} + x^{59} + x^{58} + x^{53} + x^{48} + x^{45} + x^{43} + x^{41} + x^{40} + x^{37} \\
& + x^{36} + x^{33}, \\
p_3(x) &= x^{138} + x^{122} + x^{114} + x^{112} + x^{108} + x^{106} + x^{96} + x^{92} + x^{88} + x^{84} \\
& + x^{74} + x^{64} + x^{60} + x^{58} + x^{56} + x^{52} + x^{48} + x^{44} + x^{42} + x^{24} + x^{20} \\
& + x^{18}, \\
p_6(x) &= x^{141} + x^{140} + x^{139} + x^{138} + x^{136} + x^{131} + x^{130} + x^{127} + x^{125} + x^{121} \\
& + x^{118} + x^{117} + x^{116} + x^{115} + x^{114} + x^{112} + x^{111} + x^{110} + x^{106} \\
& + x^{104} + x^{102} + x^{100} + x^{98} + x^{96} + x^{94} + x^{92} + x^{90} + x^{89} + x^{87} + x^{82} \\
& + x^{81} + x^{78} + x^{75} + x^{74} + x^{73} + x^{72} + x^{71} + x^{69} + x^{68} + x^{67} + x^{63} \\
& + x^{60} + x^{57} + x^{56} + x^{55} + x^{54} + x^{52} + x^{47} + x^{46} + x^{43} + x^{41} + x^{36} \\
& + x^{35} + x^{32} + x^{29} + x^{28} + x^{27} + x^{26} + x^{24} + x^{21} + x^{20} + x^{16} + x^{15} \\
& + x^{12}, \\
p_9(x) &= x^{144} + x^{142} + x^{140} + x^{138} + x^{134} + x^{128} + x^{126} + x^{120} + x^{118} + x^{116} \\
& + x^{114} + x^{112} + x^{108} + x^{106} + x^{102} + x^{100} + x^{98} + x^{96} + x^{92} + x^{90} \\
& + x^{88} + x^{86} + x^{82} + x^{78} + x^{74} + x^{72} + x^{58} + x^{56} + x^{54} + x^{48} + x^{40} \\
& + x^{34} + x^{30} + x^{26} + x^{24} + x^{22} + x^{18} + x^{14} + x^{12} + x^{10} + x^8 + x^6, \\
p_{12}(x) &= x^{147} + x^{146} + x^{142} + x^{140} + x^{139} + x^{136} + x^{131} + x^{130} + x^{127} + x^{124} \\
& + x^{119} + x^{118} + x^{115} + x^{112} + x^{99} + x^{98} + x^{94} + x^{92} + x^{91} + x^{88} \\
& + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{70} + x^{67} + x^{64} + x^{63} + x^{62} + x^{59}
\end{aligned}$$

$$\begin{aligned}
& + x^{56} + x^{55} + x^{54} + x^{50} + x^{48} + x^{47} + x^{44} + x^{39} + x^{38} + x^{34} + x^{32} \\
& + x^{30} + x^{28} + x^{27} + x^{24} + x^{19} + x^{18} + x^{15} + x^{12} + x^7 + x^6 + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{156} + x^{154} + x^{152} + x^{148} + x^{142} + x^{138} + x^{126} + x^{124} + x^{122} + x^{118} \\
&+ x^{114} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{98} + x^{94} + x^{90} + x^{82} \\
&+ x^{76} + x^{74} + x^{66} + x^{62} + x^{60} + x^{56} + x^{52} + x^{50} + x^{48} + x^{46} + x^{42}, \\
p_3(x) &= x^{154} + x^{148} + x^{140} + x^{138} + x^{136} + x^{134} + x^{132} + x^{130} + x^{128} + x^{126} \\
&+ x^{124} + x^{120} + x^{114} + x^{110} + x^{108} + x^{106} + x^{92} + x^{90} + x^{84} + x^{80} \\
&+ x^{78} + x^{76} + x^{70} + x^{66} + x^{64} + x^{62} + x^{60} + x^{56} + x^{54} + x^{52} + x^{46} \\
&+ x^{44} + x^{34} + x^{30} + x^{28} + x^{26} + x^{16} + x^{12}, \\
p_6(x) &= x^{154} + x^{148} + x^{146} + x^{144} + x^{140} + x^{138} + x^{130} + x^{128} + x^{126} + x^{118} \\
&+ x^{106} + x^{104} + x^{100} + x^{96} + x^{94} + x^{92} + x^{86} + x^{78} + x^{72} + x^{64} + x^{54} \\
&+ x^{48} + x^{44} + x^{40} + x^{38} + x^{36} + x^{34} + x^{28} + x^{22} + x^{20} + x^{14} + x^{12} \\
&+ x^{10} + 1, \\
p_9(x) &= x^{154} + x^{148} + x^{144} + x^{138} + x^{136} + x^{134} + x^{132} + x^{128} + x^{124} + x^{122} \\
&+ x^{112} + x^{110} + x^{108} + x^{98} + x^{96} + x^{92} + x^{86} + x^{80} + x^{76} + x^{74} + x^{64} \\
&+ x^{62} + x^{60} + x^{48} + x^{40} + x^{38} + x^{30} + x^{28} + x^{16} + x^{10} + x^8 + x^4, \\
p_{12}(x) &= x^{156} + x^{152} + x^{148} + x^{144} + x^{140} + x^{136} + x^{132} + x^{128} + x^{116} + x^{112} \\
&+ x^{108} + x^{104} + x^{100} + x^{96} + x^{68} + x^{64} + x^{60} + x^{56} + x^{44} + x^{40} + x^{28} \\
&+ x^{24} + x^{20} + x^{16} + x^4 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{147} + x^{146} + x^{145} + x^{144} + x^{140} + x^{138} + x^{136} + x^{134} + x^{130} + x^{122} \\
&+ x^{121} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{110} + x^{108} + x^{106} \\
&+ x^{104} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{90} + x^{89} + x^{88} \\
&+ x^{86} + x^{84} + x^{80} + x^{79} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} + x^{67} \\
&+ x^{62} + x^{58} + x^{55} + x^{54} + x^{50} + x^{47} + x^{46} + x^{41} + x^{39} + x^{35} + x^{33} \\
&+ x^{32} + x^{31} + x^{28} + x^{27} + x^{24}, \\
p_3(x) &= x^{143} + x^{142} + x^{141} + x^{140} + x^{136} + x^{135} + x^{133} + x^{131} + x^{130} + x^{128} \\
&+ x^{127} + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} \\
&+ x^{117} + x^{116} + x^{111} + x^{110} + x^{109} + x^{106} + x^{105} + x^{104} + x^{103} \\
&+ x^{102} + x^{100} + x^{96} + x^{95} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} \\
&+ x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} + x^{68} \\
&+ x^{65} + x^{63} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{50} + x^{47} + x^{46}
\end{aligned}$$

$$\begin{aligned}
& + x^{45} + x^{43} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{25} \\
& + x^{23} + x^{20} + x^{19} + x^{16}, \\
p_6(x) = & x^{145} + x^{144} + x^{142} + x^{139} + x^{138} + x^{133} + x^{132} + x^{130} + x^{129} + x^{128} \\
& + x^{125} + x^{122} + x^{121} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} \\
& + x^{107} + x^{104} + x^{102} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{86} \\
& + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{77} + x^{76} + x^{73} + x^{71} + x^{70} + x^{68} \\
& + x^{66} + x^{64} + x^{61} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{49} \\
& + x^{48} + x^{44} + x^{43} + x^{41} + x^{38} + x^{34} + x^{33} + x^{32} + x^{31} + x^{28} + x^{27} \\
& + x^{26} + x^{24} + x^{23} + x^{20} + x^{19} + x^{18} + x^{17} + x^{11} + x^8 + x^7 + x^6 + x^3 \\
& + 1, \\
p_9(x) = & x^{143} + x^{142} + x^{139} + x^{136} + x^{135} + x^{134} + x^{131} + x^{128} + x^{127} + x^{126} \\
& + x^{123} + x^{120} + x^{95} + x^{94} + x^{91} + x^{88} + x^{87} + x^{86} + x^{83} + x^{80} + x^{71} \\
& + x^{70} + x^{67} + x^{64} + x^{55} + x^{54} + x^{51} + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} \\
& + x^{31} + x^{30} + x^{27} + x^{24} + x^{23} + x^{22} + x^{19} + x^{16} + x^{15} + x^{14} + x^{11} \\
& + x^8, \\
p_{12}(x) = & x^{147} + x^{146} + x^{143} + x^{140} + x^{135} + x^{134} + x^{130} + x^{128} + x^{126} + x^{124} \\
& + x^{123} + x^{120} + x^{119} + x^{118} + x^{115} + x^{112} + x^{99} + x^{98} + x^{95} + x^{92} \\
& + x^{87} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{63} + x^{62} + x^{59} \\
& + x^{56} + x^{51} + x^{50} + x^{46} + x^{44} + x^{43} + x^{40} + x^{39} + x^{38} + x^{34} + x^{32} \\
& + x^{31} + x^{28} + x^{23} + x^{22} + x^{18} + x^{16} + x^{14} + x^{12} + x^{11} + x^8 + x^7 + x^6 \\
& + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{148} + x^{145} + x^{143} + x^{142} + x^{140} + x^{139} + x^{136} + x^{129} + x^{126} + x^{125} \\
& + x^{124} + x^{122} + x^{121} + x^{119} + x^{118} + x^{116} + x^{113} + x^{112} + x^{109} \\
& + x^{108} + x^{107} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{93} \\
& + x^{91} + x^{90} + x^{89} + x^{85} + x^{83} + x^{79} + x^{77} + x^{75} + x^{74} + x^{71} + x^{70} \\
& + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{54} + x^{52} + x^{49} + x^{45} + x^{43} \\
& + x^{42} + x^{41} + x^{40} + x^{39} + x^{36} + x^{35} + x^{34} + x^{33}, \\
p_3(x) = & x^{139} + x^{138} + x^{135} + x^{133} + x^{128} + x^{127} + x^{125} + x^{120} + x^{118} + x^{116} \\
& + x^{115} + x^{112} + x^{111} + x^{110} + x^{109} + x^{108} + x^{107} + x^{102} + x^{100} \\
& + x^{99} + x^{96} + x^{91} + x^{90} + x^{86} + x^{84} + x^{83} + x^{80} + x^{71} + x^{70} + x^{69} \\
& + x^{68} + x^{67} + x^{63} + x^{61} + x^{59} + x^{58} + x^{56} + x^{51} + x^{50} + x^{46} + x^{44} \\
& + x^{42} + x^{40} + x^{39} + x^{37} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} \\
& + x^{26} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18},
\end{aligned}$$

$$\begin{aligned}
p_6(x) &= x^{142} + x^{140} + x^{138} + x^{136} + x^{132} + x^{126} + x^{124} + x^{116} + x^{114} + x^{108} \\
&\quad + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{78} + x^{76} + x^{74} + x^{66} + x^{60} + x^{58} \\
&\quad + x^{56} + x^{54} + x^{52} + x^{48} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{30} + x^{28} \\
&\quad + x^{26} + x^{24} + x^{22} + x^{18} + x^{16} + x^{12}, \\
p_9(x) &= x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{137} + x^{135} + x^{131} + x^{129} + x^{125} \\
&\quad + x^{123} + x^{121} + x^{120} + x^{118} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{89} \\
&\quad + x^{87} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{70} + x^{67} + x^{64} \\
&\quad + x^{63} + x^{62} + x^{59} + x^{56} + x^{55} + x^{54} + x^{51} + x^{49} + x^{45} + x^{43} + x^{41} \\
&\quad + x^{40} + x^{38} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{25} + x^{23} + x^{19} + x^{17} \\
&\quad + x^{13} + x^{11} + x^9 + x^8 + x^6, \\
p_{12}(x) &= x^{148} + x^{140} + x^{136} + x^{132} + x^{124} + x^{112} + x^{100} + x^{92} + x^{88} + x^{72} \\
&\quad + x^{64} + x^{56} + x^{52} + x^{48} + x^{44} + x^{36} + x^{32} + x^{28} + x^{24} + x^{20} + x^{12} + 1
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{160} + x^{157} + x^{156} + x^{155} + x^{153} + x^{152} + x^{148} + x^{147} + x^{146} + x^{145} \\
&\quad + x^{143} + x^{139} + x^{138} + x^{133} + x^{132} + x^{131} + x^{121} + x^{120} + x^{118} \\
&\quad + x^{114} + x^{109} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} \\
&\quad + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{87} + x^{86} + x^{85} + x^{82} + x^{79} + x^{75} \\
&\quad + x^{74} + x^{72} + x^{71} + x^{70} + x^{66} + x^{65} + x^{60} + x^{59} + x^{58} + x^{55} + x^{53} \\
&\quad + x^{51} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} + x^{33}, \\
p_3(x) &= x^{151} + x^{150} + x^{146} + x^{145} + x^{143} + x^{141} + x^{140} + x^{139} + x^{137} + x^{136} \\
&\quad + x^{135} + x^{133} + x^{132} + x^{131} + x^{126} + x^{125} + x^{123} + x^{121} + x^{120} \\
&\quad + x^{118} + x^{117} + x^{116} + x^{112} + x^{111} + x^{108} + x^{107} + x^{106} + x^{102} \\
&\quad + x^{101} + x^{98} + x^{93} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} \\
&\quad + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{76} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} \\
&\quad + x^{67} + x^{66} + x^{63} + x^{60} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
&\quad + x^{47} + x^{43} + x^{41} + x^{36} + x^{34} + x^{33} + x^{31} + x^{29} + x^{28} + x^{26} + x^{23} \\
&\quad + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_6(x) &= x^{154} + x^{152} + x^{146} + x^{140} + x^{138} + x^{136} + x^{130} + x^{124} + x^{114} + x^{112} \\
&\quad + x^{104} + x^{102} + x^{96} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{56} \\
&\quad + x^{54} + x^{52} + x^{50} + x^{48} + x^{44} + x^{38} + x^{36} + x^{28} + x^{26} + x^{22} + x^{18} \\
&\quad + x^{16} + x^{12}, \\
p_9(x) &= x^{157} + x^{156} + x^{155} + x^{154} + x^{152} + x^{151} + x^{150} + x^{147} + x^{145} + x^{141} \\
&\quad + x^{139} + x^{137} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} + x^{129}
\end{aligned}$$

$$\begin{aligned}
& + x^{125} + x^{123} + x^{121} + x^{120} + x^{118} + x^{109} + x^{108} + x^{107} + x^{106} \\
& + x^{104} + x^{103} + x^{102} + x^{99} + x^{97} + x^{92} + x^{90} + x^{89} + x^{87} + x^{85} + x^{84} \\
& + x^{82} + x^{77} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{66} \\
& + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{44} + x^{42} + x^{41} + x^{39} + x^{35} + x^{33} \\
& + x^{29} + x^{27} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{13} \\
& + x^{11} + x^9 + x^8 + x^6, \\
p_{12}(x) = & x^{160} + x^{156} + x^{152} + x^{136} + x^{132} + x^{128} + x^{108} + x^{104} + x^{96} + x^{92} \\
& + x^{84} + x^{76} + x^{68} + x^{56} + x^{52} + x^{48} + x^{44} + x^{40} + x^{32} + x^{24} + x^{20} \\
& + x^{16} + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{146} + x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{137} + x^{133} + x^{132} \\
& + x^{130} + x^{128} + x^{125} + x^{124} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} \\
& + x^{113} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{105} + x^{103} + x^{102} \\
& + x^{99} + x^{96} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} \\
& + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} + x^{67} + x^{64} + x^{63} + x^{62} \\
& + x^{60} + x^{58} + x^{56} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{44} + x^{43} + x^{42}, \\
p_3(x) = & x^{143} + x^{142} + x^{141} + x^{140} + x^{139} + x^{138} + x^{137} + x^{133} + x^{130} + x^{129} \\
& + x^{128} + x^{127} + x^{126} + x^{124} + x^{123} + x^{121} + x^{119} + x^{118} + x^{116} \\
& + x^{114} + x^{108} + x^{107} + x^{106} + x^{102} + x^{100} + x^{99} + x^{94} + x^{89} + x^{86} \\
& + x^{85} + x^{83} + x^{78} + x^{76} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} + x^{64} + x^{62} \\
& + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{49} + x^{48} + x^{45} + x^{44} + x^{43} + x^{38} \\
& + x^{36} + x^{34} + x^{32} + x^{31} + x^{29} + x^{25} + x^{24} + x^{23} + x^{22}, \\
p_6(x) = & x^{145} + x^{144} + x^{143} + x^{141} + x^{140} + x^{138} + x^{134} + x^{133} + x^{129} + x^{127} \\
& + x^{122} + x^{120} + x^{119} + x^{115} + x^{114} + x^{112} + x^{108} + x^{103} + x^{99} + x^{98} \\
& + x^{97} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{88} + x^{86} + x^{85} + x^{82} + x^{77} \\
& + x^{74} + x^{71} + x^{69} + x^{67} + x^{63} + x^{62} + x^{61} + x^{56} + x^{54} + x^{53} + x^{51} \\
& + x^{50} + x^{49} + x^{46} + x^{39} + x^{36} + x^{35} + x^{33} + x^{32} + x^{29} + x^{28} + x^{23} \\
& + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12} + x^7 + x^6 + x^3 + 1, \\
p_9(x) = & x^{143} + x^{142} + x^{139} + x^{136} + x^{135} + x^{134} + x^{131} + x^{128} + x^{127} + x^{126} \\
& + x^{123} + x^{120} + x^{95} + x^{94} + x^{91} + x^{88} + x^{87} + x^{86} + x^{83} + x^{80} + x^{71} \\
& + x^{70} + x^{67} + x^{64} + x^{55} + x^{54} + x^{51} + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} \\
& + x^{31} + x^{30} + x^{27} + x^{24} + x^{23} + x^{22} + x^{19} + x^{16} + x^{15} + x^{14} + x^{11} \\
& + x^8, \\
p_{12}(x) = & x^{147} + x^{146} + x^{143} + x^{140} + x^{135} + x^{134} + x^{130} + x^{128} + x^{126} + x^{124}
\end{aligned}$$

$$\begin{aligned}
& + x^{123} + x^{120} + x^{119} + x^{118} + x^{115} + x^{112} + x^{99} + x^{98} + x^{95} + x^{92} \\
& + x^{87} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{63} + x^{62} + x^{59} \\
& + x^{56} + x^{51} + x^{50} + x^{46} + x^{44} + x^{43} + x^{40} + x^{39} + x^{38} + x^{34} + x^{32} \\
& + x^{31} + x^{28} + x^{23} + x^{22} + x^{18} + x^{16} + x^{14} + x^{12} + x^{11} + x^8 + x^7 + x^6 \\
& + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) = & x^{147} + x^{146} + x^{145} + x^{144} + x^{140} + x^{138} + x^{136} + x^{134} + x^{130} + x^{122} \\
& + x^{121} + x^{117} + x^{116} + x^{114} + x^{112} + x^{111} + x^{110} + x^{108} + x^{106} \\
& + x^{104} + x^{101} + x^{100} + x^{99} + x^{98} + x^{96} + x^{93} + x^{91} + x^{90} + x^{89} + x^{88} \\
& + x^{86} + x^{84} + x^{80} + x^{79} + x^{75} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} + x^{67} \\
& + x^{62} + x^{58} + x^{55} + x^{54} + x^{50} + x^{47} + x^{46} + x^{41} + x^{39} + x^{35} + x^{33} \\
& + x^{32} + x^{31} + x^{28} + x^{27} + x^{24},
\end{aligned}$$

$$\begin{aligned}
p_3(x) = & x^{143} + x^{142} + x^{141} + x^{140} + x^{136} + x^{135} + x^{133} + x^{131} + x^{130} + x^{128} \\
& + x^{127} + x^{126} + x^{125} + x^{124} + x^{123} + x^{122} + x^{120} + x^{119} + x^{118} \\
& + x^{117} + x^{116} + x^{111} + x^{110} + x^{109} + x^{106} + x^{105} + x^{104} + x^{103} \\
& + x^{102} + x^{100} + x^{96} + x^{95} + x^{93} + x^{92} + x^{90} + x^{88} + x^{87} + x^{85} + x^{84} \\
& + x^{82} + x^{79} + x^{78} + x^{77} + x^{76} + x^{75} + x^{74} + x^{73} + x^{71} + x^{70} + x^{68} \\
& + x^{65} + x^{63} + x^{60} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{50} + x^{47} + x^{46} \\
& + x^{45} + x^{43} + x^{41} + x^{40} + x^{38} + x^{37} + x^{36} + x^{35} + x^{34} + x^{32} + x^{25} \\
& + x^{23} + x^{20} + x^{19} + x^{16},
\end{aligned}$$

$$\begin{aligned}
p_6(x) = & x^{145} + x^{144} + x^{142} + x^{139} + x^{138} + x^{133} + x^{132} + x^{130} + x^{129} + x^{128} \\
& + x^{125} + x^{122} + x^{121} + x^{120} + x^{117} + x^{116} + x^{114} + x^{112} + x^{110} \\
& + x^{107} + x^{104} + x^{102} + x^{98} + x^{97} + x^{95} + x^{93} + x^{92} + x^{91} + x^{89} + x^{86} \\
& + x^{85} + x^{84} + x^{83} + x^{82} + x^{81} + x^{77} + x^{76} + x^{73} + x^{71} + x^{70} + x^{68} \\
& + x^{66} + x^{64} + x^{61} + x^{58} + x^{57} + x^{56} + x^{55} + x^{54} + x^{53} + x^{51} + x^{49} \\
& + x^{48} + x^{44} + x^{43} + x^{41} + x^{38} + x^{34} + x^{33} + x^{32} + x^{31} + x^{28} + x^{27} \\
& + x^{26} + x^{24} + x^{23} + x^{20} + x^{19} + x^{18} + x^{17} + x^{11} + x^8 + x^7 + x^6 + x^3 \\
& + 1,
\end{aligned}$$

$$\begin{aligned}
p_9(x) = & x^{143} + x^{142} + x^{139} + x^{136} + x^{135} + x^{134} + x^{131} + x^{128} + x^{127} + x^{126} \\
& + x^{123} + x^{120} + x^{95} + x^{94} + x^{91} + x^{88} + x^{87} + x^{86} + x^{83} + x^{80} + x^{71} \\
& + x^{70} + x^{67} + x^{64} + x^{55} + x^{54} + x^{51} + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} \\
& + x^{31} + x^{30} + x^{27} + x^{24} + x^{23} + x^{22} + x^{19} + x^{16} + x^{15} + x^{14} + x^{11} \\
& + x^8,
\end{aligned}$$

$$p_{12}(x) = x^{147} + x^{146} + x^{143} + x^{140} + x^{135} + x^{134} + x^{130} + x^{128} + x^{126} + x^{124}$$

$$\begin{aligned}
& + x^{123} + x^{120} + x^{119} + x^{118} + x^{115} + x^{112} + x^{99} + x^{98} + x^{95} + x^{92} \\
& + x^{87} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{63} + x^{62} + x^{59} \\
& + x^{56} + x^{51} + x^{50} + x^{46} + x^{44} + x^{43} + x^{40} + x^{39} + x^{38} + x^{34} + x^{32} \\
& + x^{31} + x^{28} + x^{23} + x^{22} + x^{18} + x^{16} + x^{14} + x^{12} + x^{11} + x^8 + x^7 + x^6 \\
& + x^3 + 1,
\end{aligned}$$

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

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

$$\begin{aligned}
p_0(x) &= x^{160} + x^{157} + x^{156} + x^{155} + x^{153} + x^{152} + x^{148} + x^{147} + x^{146} + x^{145} \\
& + x^{143} + x^{139} + x^{138} + x^{133} + x^{132} + x^{131} + x^{121} + x^{120} + x^{118} \\
& + x^{114} + x^{109} + x^{108} + x^{106} + x^{104} + x^{102} + x^{100} + x^{99} + x^{98} + x^{96} \\
& + x^{95} + x^{94} + x^{93} + x^{92} + x^{90} + x^{87} + x^{86} + x^{85} + x^{82} + x^{79} + x^{75} \\
& + x^{74} + x^{72} + x^{71} + x^{70} + x^{66} + x^{65} + x^{60} + x^{59} + x^{58} + x^{55} + x^{53} \\
& + x^{51} + x^{45} + x^{44} + x^{43} + x^{42} + x^{39} + x^{33}, \\
p_3(x) &= x^{151} + x^{150} + x^{146} + x^{145} + x^{143} + x^{141} + x^{140} + x^{139} + x^{137} + x^{136} \\
& + x^{135} + x^{133} + x^{132} + x^{131} + x^{126} + x^{125} + x^{123} + x^{121} + x^{120} \\
& + x^{118} + x^{117} + x^{116} + x^{112} + x^{111} + x^{108} + x^{107} + x^{106} + x^{102} \\
& + x^{101} + x^{98} + x^{93} + x^{92} + x^{91} + x^{90} + x^{88} + x^{87} + x^{86} + x^{85} + x^{84} \\
& + x^{82} + x^{81} + x^{80} + x^{79} + x^{78} + x^{76} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} \\
& + x^{67} + x^{66} + x^{63} + x^{60} + x^{55} + x^{54} + x^{53} + x^{52} + x^{51} + x^{49} + x^{48} \\
& + x^{47} + x^{43} + x^{41} + x^{36} + x^{34} + x^{33} + x^{31} + x^{29} + x^{28} + x^{26} + x^{23} \\
& + x^{22} + x^{21} + x^{20} + x^{18}, \\
p_6(x) &= x^{154} + x^{152} + x^{146} + x^{140} + x^{138} + x^{136} + x^{130} + x^{124} + x^{114} + x^{112} \\
& + x^{104} + x^{102} + x^{96} + x^{74} + x^{72} + x^{70} + x^{68} + x^{66} + x^{62} + x^{60} + x^{56} \\
& + x^{54} + x^{52} + x^{50} + x^{48} + x^{44} + x^{38} + x^{36} + x^{28} + x^{26} + x^{22} + x^{18} \\
& + x^{16} + x^{12}, \\
p_9(x) &= x^{157} + x^{156} + x^{155} + x^{154} + x^{152} + x^{151} + x^{150} + x^{147} + x^{145} + x^{141} \\
& + x^{139} + x^{137} + x^{136} + x^{134} + x^{133} + x^{132} + x^{131} + x^{130} + x^{129} \\
& + x^{125} + x^{123} + x^{121} + x^{120} + x^{118} + x^{109} + x^{108} + x^{107} + x^{106} \\
& + x^{104} + x^{103} + x^{102} + x^{99} + x^{97} + x^{92} + x^{90} + x^{89} + x^{87} + x^{85} + x^{84} \\
& + x^{82} + x^{77} + x^{76} + x^{75} + x^{74} + x^{72} + x^{71} + x^{70} + x^{69} + x^{68} + x^{66} \\
& + x^{53} + x^{52} + x^{51} + x^{50} + x^{49} + x^{44} + x^{42} + x^{41} + x^{39} + x^{35} + x^{33} \\
& + x^{29} + x^{27} + x^{25} + x^{24} + x^{22} + x^{21} + x^{20} + x^{19} + x^{18} + x^{17} + x^{13} \\
& + x^{11} + x^9 + x^8 + x^6, \\
p_{12}(x) &= x^{160} + x^{156} + x^{152} + x^{136} + x^{132} + x^{128} + x^{108} + x^{104} + x^{96} + x^{92} \\
& + x^{84} + x^{76} + x^{68} + x^{56} + x^{52} + x^{48} + x^{44} + x^{40} + x^{32} + x^{24} + x^{20}
\end{aligned}$$

$$+ x^{16} + 1,$$

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

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

$$\begin{aligned} p_0(x) &= x^{148} + x^{145} + x^{143} + x^{142} + x^{140} + x^{139} + x^{136} + x^{129} + x^{126} + x^{125} \\ &\quad + x^{124} + x^{122} + x^{121} + x^{119} + x^{118} + x^{116} + x^{113} + x^{112} + x^{109} \\ &\quad + x^{108} + x^{107} + x^{103} + x^{102} + x^{101} + x^{100} + x^{99} + x^{98} + x^{97} + x^{93} \\ &\quad + x^{91} + x^{90} + x^{89} + x^{85} + x^{83} + x^{79} + x^{77} + x^{75} + x^{74} + x^{71} + x^{70} \\ &\quad + x^{68} + x^{67} + x^{66} + x^{64} + x^{63} + x^{62} + x^{54} + x^{52} + x^{49} + x^{45} + x^{43} \\ &\quad + x^{42} + x^{41} + x^{40} + x^{39} + x^{36} + x^{35} + x^{34} + x^{33}, \\ p_3(x) &= x^{139} + x^{138} + x^{135} + x^{133} + x^{128} + x^{127} + x^{125} + x^{120} + x^{118} + x^{116} \\ &\quad + x^{115} + x^{112} + x^{111} + x^{110} + x^{109} + x^{108} + x^{107} + x^{102} + x^{100} \\ &\quad + x^{99} + x^{96} + x^{91} + x^{90} + x^{86} + x^{84} + x^{83} + x^{80} + x^{71} + x^{70} + x^{69} \\ &\quad + x^{68} + x^{67} + x^{63} + x^{61} + x^{59} + x^{58} + x^{56} + x^{51} + x^{50} + x^{46} + x^{44} \\ &\quad + x^{42} + x^{40} + x^{39} + x^{37} + x^{35} + x^{34} + x^{32} + x^{31} + x^{30} + x^{29} + x^{28} \\ &\quad + x^{26} + x^{23} + x^{22} + x^{21} + x^{20} + x^{18}, \\ p_6(x) &= x^{142} + x^{140} + x^{138} + x^{136} + x^{132} + x^{126} + x^{124} + x^{116} + x^{114} + x^{108} \\ &\quad + x^{90} + x^{88} + x^{86} + x^{84} + x^{82} + x^{78} + x^{76} + x^{74} + x^{66} + x^{60} + x^{58} \\ &\quad + x^{56} + x^{54} + x^{52} + x^{48} + x^{42} + x^{40} + x^{38} + x^{36} + x^{32} + x^{30} + x^{28} \\ &\quad + x^{26} + x^{24} + x^{22} + x^{18} + x^{16} + x^{12}, \\ p_9(x) &= x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{137} + x^{135} + x^{131} + x^{129} + x^{125} \\ &\quad + x^{123} + x^{121} + x^{120} + x^{118} + x^{97} + x^{96} + x^{95} + x^{94} + x^{93} + x^{89} \\ &\quad + x^{87} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{71} + x^{70} + x^{67} + x^{64} \\ &\quad + x^{63} + x^{62} + x^{59} + x^{56} + x^{55} + x^{54} + x^{51} + x^{49} + x^{45} + x^{43} + x^{41} \\ &\quad + x^{40} + x^{38} + x^{33} + x^{32} + x^{31} + x^{30} + x^{29} + x^{25} + x^{23} + x^{19} + x^{17} \\ &\quad + x^{13} + x^{11} + x^9 + x^8 + x^6, \\ p_{12}(x) &= x^{148} + x^{140} + x^{136} + x^{132} + x^{124} + x^{112} + x^{100} + x^{92} + x^{88} + x^{72} \\ &\quad + x^{64} + x^{56} + x^{52} + x^{48} + x^{44} + x^{36} + x^{32} + x^{28} + x^{24} + x^{20} + x^{12} + 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 $\phi(W^o, 1, 1)$:

$$\begin{aligned} p_0(x) &= x^{147} + x^{146} + x^{145} + x^{144} + x^{143} + x^{142} + x^{141} + x^{137} + x^{133} + x^{132} \\ &\quad + x^{130} + x^{128} + x^{125} + x^{124} + x^{121} + x^{118} + x^{117} + x^{115} + x^{114} \\ &\quad + x^{113} + x^{112} + x^{111} + x^{110} + x^{109} + x^{107} + x^{105} + x^{103} + x^{102} \\ &\quad + x^{99} + x^{96} + x^{94} + x^{93} + x^{92} + x^{90} + x^{89} + x^{88} + x^{87} + x^{86} + x^{85} \\ &\quad + x^{84} + x^{83} + x^{82} + x^{81} + x^{80} + x^{77} + x^{76} + x^{67} + x^{64} + x^{63} + x^{62} \end{aligned}$$

$$\begin{aligned}
& + x^{60} + x^{58} + x^{56} + x^{55} + x^{54} + x^{52} + x^{51} + x^{50} + x^{44} + x^{43} + x^{42}, \\
p_3(x) = & x^{143} + x^{142} + x^{141} + x^{140} + x^{139} + x^{138} + x^{137} + x^{133} + x^{130} + x^{129} \\
& + x^{128} + x^{127} + x^{126} + x^{124} + x^{123} + x^{121} + x^{119} + x^{118} + x^{116} \\
& + x^{114} + x^{108} + x^{107} + x^{106} + x^{102} + x^{100} + x^{99} + x^{94} + x^{89} + x^{86} \\
& + x^{85} + x^{83} + x^{78} + x^{76} + x^{73} + x^{72} + x^{71} + x^{70} + x^{68} + x^{64} + x^{62} \\
& + x^{58} + x^{57} + x^{56} + x^{53} + x^{52} + x^{49} + x^{48} + x^{45} + x^{44} + x^{43} + x^{38} \\
& + x^{36} + x^{34} + x^{32} + x^{31} + x^{29} + x^{25} + x^{24} + x^{23} + x^{22}, \\
p_6(x) = & x^{145} + x^{144} + x^{143} + x^{141} + x^{140} + x^{138} + x^{134} + x^{133} + x^{129} + x^{127} \\
& + x^{122} + x^{120} + x^{119} + x^{115} + x^{114} + x^{112} + x^{108} + x^{103} + x^{99} + x^{98} \\
& + x^{97} + x^{96} + x^{95} + x^{93} + x^{92} + x^{91} + x^{88} + x^{86} + x^{85} + x^{82} + x^{77} \\
& + x^{74} + x^{71} + x^{69} + x^{67} + x^{63} + x^{62} + x^{61} + x^{56} + x^{54} + x^{53} + x^{51} \\
& + x^{50} + x^{49} + x^{46} + x^{39} + x^{36} + x^{35} + x^{33} + x^{32} + x^{29} + x^{28} + x^{23} \\
& + x^{21} + x^{19} + x^{18} + x^{17} + x^{16} + x^{14} + x^{12} + x^7 + x^6 + x^3 + 1, \\
p_9(x) = & x^{143} + x^{142} + x^{139} + x^{136} + x^{135} + x^{134} + x^{131} + x^{128} + x^{127} + x^{126} \\
& + x^{123} + x^{120} + x^{95} + x^{94} + x^{91} + x^{88} + x^{87} + x^{86} + x^{83} + x^{80} + x^{71} \\
& + x^{70} + x^{67} + x^{64} + x^{55} + x^{54} + x^{51} + x^{48} + x^{47} + x^{46} + x^{43} + x^{40} \\
& + x^{31} + x^{30} + x^{27} + x^{24} + x^{23} + x^{22} + x^{19} + x^{16} + x^{15} + x^{14} + x^{11} \\
& + x^8, \\
p_{12}(x) = & x^{147} + x^{146} + x^{143} + x^{140} + x^{135} + x^{134} + x^{130} + x^{128} + x^{126} + x^{124} \\
& + x^{123} + x^{120} + x^{119} + x^{118} + x^{115} + x^{112} + x^{99} + x^{98} + x^{95} + x^{92} \\
& + x^{87} + x^{86} + x^{83} + x^{80} + x^{79} + x^{78} + x^{75} + x^{72} + x^{63} + x^{62} + x^{59} \\
& + x^{56} + x^{51} + x^{50} + x^{46} + x^{44} + x^{43} + x^{40} + x^{39} + x^{38} + x^{34} + x^{32} \\
& + x^{31} + x^{28} + x^{23} + x^{22} + x^{18} + x^{16} + x^{14} + x^{12} + x^{11} + x^8 + x^7 + x^6 \\
& + x^3 + 1,
\end{aligned}$$

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

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

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

n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$	n	$\Lambda(n)$
0	[1, 2]	2546	[3791, 4232]	5092	[7045, 1624]	7638	[6559, 2152]
1	[3, 4]	2547	[4233, 4234]	5093	[7046, 7047]	7639	[6102, 6228]
2	[5, 6]	2548	[4235, 4102]	5094	[7048, 4315]	7640	[8974, 8975]
3	[7, 8]	2549	[4236, 1090]	5095	[487, 4478]	7641	[5905, 5509]
4	[9, 10]	2550	[4237, 4238]	5096	[7049, 317]	7642	[2251, 8976]
5	[11, 12]	2551	[4239, 3591]	5097	[7050, 7051]	7643	[8977, 2330]
6	[13, 14]	2552	[1440, 4240]	5098	[7052, 6830]	7644	[8978, 8979]
7	[15, 16]	2553	[3728, 4241]	5099	[1289, 7053]	7645	[5887, 8980]

8	[17, 18]	2554	[4242, 1277]	5100	[7054, 3685]	7646	[8981, 1967]
9	[19, 20]	2555	[4243, 4244]	5101	[7055, 7056]	7647	[5318, 6333]
10	[21, 22]	2556	[4245, 3757]	5102	[7057, 7058]	7648	[8761, 6048]
11	[23, 24]	2557	[4246, 4247]	5103	[3560, 7059]	7649	[8982, 8983]
12	[25, 26]	2558	[4248, 4249]	5104	[7060, 458]	7650	[5079, 8984]
13	[27, 28]	2559	[3451, 4250]	5105	[7021, 3122]	7651	[2047, 4977]
14	[29, 30]	2560	[4251, 4252]	5106	[6951, 3905]	7652	[5699, 2453]
15	[31, 32]	2561	[3235, 3657]	5107	[3694, 1710]	7653	[5995, 6347]
16	[33, 34]	2562	[4253, 4254]	5108	[3698, 4814]	7654	[8985, 6321]
17	[35, 36]	2563	[1112, 4255]	5109	[4518, 4181]	7655	[2885, 2145]
18	[37, 38]	2564	[4256, 4257]	5110	[3697, 1746]	7656	[870, 6237]
19	[39, 40]	2565	[4258, 354]	5111	[94, 1295]	7657	[189, 8986]
20	[41, 42]	2566	[4259, 4260]	5112	[4038, 3592]	7658	[6495, 2184]
21	[43, 44]	2567	[3576, 4261]	5113	[1570, 989]	7659	[8987, 6189]
22	[45, 46]	2568	[4262, 4263]	5114	[4555, 3070]	7660	[5218, 8337]
23	[47, 48]	2569	[4264, 3502]	5115	[7061, 4803]	7661	[2190, 2463]
24	[49, 50]	2570	[4265, 4266]	5116	[965, 3409]	7662	[2515, 2202]
25	[51, 52]	2571	[4267, 4268]	5117	[7062, 3342]	7663	[5862, 6642]
26	[53, 54]	2572	[1062, 4269]	5118	[4424, 92]	7664	[5568, 8424]
27	[55, 56]	2573	[3196, 4270]	5119	[7063, 4741]	7665	[6729, 5944]
28	[57, 58]	2574	[1132, 4271]	5120	[4161, 7064]	7666	[8988, 8989]
29	[59, 60]	2575	[4272, 4273]	5121	[7065, 7066]	7667	[5493, 5683]
30	[61, 62]	2576	[1386, 4274]	5122	[7067, 4413]	7668	[5930, 8990]
31	[63, 64]	2577	[4275, 1386]	5123	[7068, 1487]	7669	[3023, 5875]
32	[65, 66]	2578	[4155, 1526]	5124	[7069, 7070]	7670	[8991, 8777]
33	[67, 68]	2579	[3468, 299]	5125	[4604, 3918]	7671	[5113, 2466]
34	[69, 70]	2580	[4276, 1494]	5126	[7071, 7072]	7672	[2133, 8992]
35	[71, 72]	2581	[473, 4277]	5127	[7073, 7074]	7673	[592, 8993]
36	[73, 74]	2582	[3739, 4278]	5128	[3088, 7075]	7674	[2984, 6016]
37	[75, 76]	2583	[4279, 406]	5129	[117, 7076]	7675	[5909, 4897]
38	[77, 78]	2584	[3458, 4280]	5130	[3387, 1440]	7676	[8907, 6457]
39	[79, 80]	2585	[4281, 4282]	5131	[3607, 3262]	7677	[8994, 5672]
40	[81, 82]	2586	[1363, 3066]	5132	[7077, 7078]	7678	[8995, 8996]
41	[83, 84]	2587	[4283, 1427]	5133	[3436, 7079]	7679	[8385, 2577]
42	[85, 86]	2588	[1403, 1631]	5134	[7080, 7081]	7680	[8997, 8998]
43	[87, 88]	2589	[1582, 4284]	5135	[3488, 7082]	7681	[8999, 2895]
44	[89, 90]	2590	[95, 4285]	5136	[7083, 7084]	7682	[5392, 6641]
45	[91, 92]	2591	[3709, 3571]	5137	[7085, 4081]	7683	[9000, 8942]
46	[93, 94]	2592	[3122, 4286]	5138	[1268, 6840]	7684	[9001, 8570]
47	[95, 96]	2593	[3419, 4287]	5139	[7086, 6931]	7685	[8962, 823]
48	[97, 98]	2594	[3336, 4288]	5140	[1308, 7087]	7686	[5713, 2352]
49	[99, 100]	2595	[3653, 272]	5141	[4184, 7088]	7687	[9002, 9003]
50	[101, 102]	2596	[4289, 4290]	5142	[4480, 1552]	7688	[9004, 8750]
51	[103, 104]	2597	[1435, 4291]	5143	[4659, 3705]	7689	[8716, 2061]

52	[105, 106]	2598	[4292, 1699]	5144	[3573, 6901]	7690	[5035, 3037]
53	[107, 108]	2599	[4293, 4294]	5145	[4397, 6835]	7691	[5349, 9005]
54	[109, 110]	2600	[4295, 1218]	5146	[7089, 4427]	7692	[9006, 5880]
55	[111, 112]	2601	[4296, 986]	5147	[7090, 7091]	7693	[6308, 9007]
56	[113, 114]	2602	[3195, 3238]	5148	[7092, 7093]	7694	[9008, 6274]
57	[115, 116]	2603	[3689, 4050]	5149	[4323, 4765]	7695	[6664, 9009]
58	[117, 118]	2604	[1360, 3627]	5150	[468, 4463]	7696	[677, 9010]
59	[119, 120]	2605	[4297, 1420]	5151	[7094, 1039]	7697	[9011, 2558]
60	[121, 122]	2606	[1627, 4298]	5152	[7095, 1598]	7698	[9012, 5628]
61	[123, 124]	2607	[3962, 3963]	5153	[7096, 4392]	7699	[6212, 2040]
62	[125, 126]	2608	[4299, 3287]	5154	[1011, 1095]	7700	[1993, 9013]
63	[127, 128]	2609	[4300, 3528]	5155	[7097, 7098]	7701	[5100, 2156]
64	[129, 130]	2610	[4301, 4260]	5156	[1752, 4600]	7702	[9014, 6293]
65	[131, 132]	2611	[1609, 4302]	5157	[91, 4425]	7703	[2993, 6532]
66	[133, 134]	2612	[4303, 4304]	5158	[3130, 3865]	7704	[5575, 9015]
67	[135, 136]	2613	[4305, 4306]	5159	[7099, 7100]	7705	[5039, 5539]
68	[137, 138]	2614	[4307, 4308]	5160	[3584, 7101]	7706	[9016, 8692]
69	[139, 140]	2615	[3325, 4309]	5161	[7102, 7103]	7707	[9017, 5702]
70	[141, 142]	2616	[4310, 4311]	5162	[253, 7104]	7708	[2080, 2820]
71	[143, 144]	2617	[4312, 1348]	5163	[7105, 7106]	7709	[9018, 834]
72	[145, 146]	2618	[3429, 4313]	5164	[7107, 7108]	7710	[9019, 8672]
73	[147, 148]	2619	[4314, 4315]	5165	[7109, 4020]	7711	[2896, 5443]
74	[149, 150]	2620	[1094, 3227]	5166	[4041, 402]	7712	[9020, 5165]
75	[151, 152]	2621	[4316, 4234]	5167	[7110, 1644]	7713	[9021, 9022]
76	[153, 154]	2622	[4317, 4318]	5168	[3764, 7111]	7714	[9023, 9024]
77	[155, 156]	2623	[4319, 4320]	5169	[7112, 1696]	7715	[6665, 5997]
78	[157, 158]	2624	[4321, 4322]	5170	[7113, 7114]	7716	[8876, 9025]
79	[159, 160]	2625	[4323, 4324]	5171	[7115, 332]	7717	[6168, 8338]
80	[161, 162]	2626	[4325, 4326]	5172	[956, 7116]	7718	[9026, 6310]
81	[163, 164]	2627	[4327, 4328]	5173	[6779, 473]	7719	[9027, 8437]
82	[165, 166]	2628	[429, 1643]	5174	[7117, 7118]	7720	[9028, 6586]
83	[167, 168]	2629	[4329, 1546]	5175	[1168, 7119]	7721	[6516, 9029]
84	[169, 170]	2630	[4330, 3560]	5176	[7120, 308]	7722	[5323, 5913]
85	[171, 172]	2631	[4331, 4332]	5177	[409, 3361]	7723	[6720, 9030]
86	[173, 174]	2632	[4333, 3976]	5178	[7121, 3985]	7724	[9031, 2984]
87	[175, 176]	2633	[4334, 4335]	5179	[7122, 4745]	7725	[6635, 9032]
88	[177, 178]	2634	[4336, 4337]	5180	[7123, 1618]	7726	[2831, 5294]
89	[179, 180]	2635	[4338, 4339]	5181	[7124, 7125]	7727	[529, 6326]
90	[181, 182]	2636	[4340, 3545]	5182	[6982, 3403]	7728	[5062, 9033]
91	[183, 184]	2637	[1345, 3651]	5183	[3315, 3401]	7729	[9034, 4959]
92	[185, 186]	2638	[1012, 1096]	5184	[7126, 3128]	7730	[9035, 900]
93	[187, 188]	2639	[3105, 1408]	5185	[7079, 3719]	7731	[2271, 9036]
94	[189, 190]	2640	[367, 4341]	5186	[3225, 7127]	7732	[9037, 166]
95	[190, 191]	2641	[4342, 4343]	5187	[7128, 7129]	7733	[574, 6016]

96	[192, 193]	2642	[4344, 3685]	5188	[7130, 1441]	7734	[5957, 6236]
97	[194, 195]	2643	[4345, 1670]	5189	[1475, 3548]	7735	[9038, 9039]
98	[196, 197]	2644	[4346, 1515]	5190	[7131, 7132]	7736	[8624, 5196]
99	[198, 199]	2645	[3695, 4347]	5191	[7133, 79]	7737	[9040, 5871]
100	[200, 201]	2646	[1349, 4348]	5192	[6794, 3519]	7738	[2902, 1788]
101	[202, 203]	2647	[4349, 4350]	5193	[4303, 975]	7739	[6705, 1790]
102	[204, 205]	2648	[4351, 4352]	5194	[4016, 7134]	7740	[9041, 9042]
103	[206, 207]	2649	[4353, 429]	5195	[1347, 89]	7741	[9043, 8850]
104	[208, 209]	2650	[4354, 4355]	5196	[7135, 7136]	7742	[8337, 5790]
105	[210, 211]	2651	[4356, 4357]	5197	[392, 7137]	7743	[4991, 8663]
106	[212, 213]	2652	[1432, 1606]	5198	[7138, 3082]	7744	[9044, 5603]
107	[214, 215]	2653	[4358, 4134]	5199	[4206, 7139]	7745	[5158, 9045]
108	[216, 217]	2654	[4359, 1572]	5200	[7140, 4461]	7746	[701, 2375]
109	[218, 219]	2655	[4360, 4361]	5201	[7141, 479]	7747	[8971, 5565]
110	[220, 221]	2656	[4362, 4363]	5202	[7142, 4625]	7748	[8991, 8633]
111	[222, 223]	2657	[96, 4364]	5203	[7143, 3742]	7749	[9046, 9047]
112	[224, 225]	2658	[4365, 1580]	5204	[426, 7144]	7750	[5142, 5608]
113	[226, 227]	2659	[4366, 4367]	5205	[7145, 7146]	7751	[1914, 5242]
114	[228, 229]	2660	[4368, 4369]	5206	[4479, 7147]	7752	[9048, 8590]
115	[230, 231]	2661	[4370, 1111]	5207	[7148, 7098]	7753	[5110, 6062]
116	[232, 233]	2662	[4371, 4372]	5208	[7149, 4136]	7754	[1869, 2396]
117	[234, 235]	2663	[4373, 4374]	5209	[7150, 7151]	7755	[9049, 9050]
118	[236, 237]	2664	[4375, 1224]	5210	[1048, 4445]	7756	[9051, 2304]
119	[238, 239]	2665	[1751, 3994]	5211	[1396, 7152]	7757	[8333, 836]
120	[240, 241]	2666	[4376, 4377]	5212	[6900, 3574]	7758	[8586, 5424]
121	[242, 243]	2667	[1131, 4378]	5213	[7153, 1752]	7759	[2421, 6739]
122	[244, 245]	2668	[3295, 4379]	5214	[7154, 1632]	7760	[9052, 9050]
123	[246, 54]	2669	[4380, 4381]	5215	[7155, 7156]	7761	[6390, 9053]
124	[247, 248]	2670	[3428, 4382]	5216	[441, 7157]	7762	[9054, 9055]
125	[249, 250]	2671	[4356, 4219]	5217	[1336, 7158]	7763	[5772, 2559]
126	[251, 135]	2672	[4383, 4384]	5218	[6949, 7159]	7764	[5767, 5452]
127	[252, 253]	2673	[4385, 4362]	5219	[3168, 4484]	7765	[6346, 5996]
128	[64, 254]	2674	[4386, 4387]	5220	[7160, 4097]	7766	[8381, 1992]
129	[255, 256]	2675	[4388, 4389]	5221	[7001, 3684]	7767	[8383, 8656]
130	[257, 258]	2676	[1660, 4390]	5222	[968, 3115]	7768	[519, 6564]
131	[6, 259]	2677	[4391, 3489]	5223	[7161, 7162]	7769	[9056, 9057]
132	[260, 261]	2678	[4392, 1641]	5224	[7163, 7164]	7770	[9058, 3031]
133	[262, 263]	2679	[4393, 4394]	5225	[7165, 3572]	7771	[931, 5916]
134	[264, 265]	2680	[3954, 1011]	5226	[1036, 7166]	7772	[2802, 531]
135	[266, 267]	2681	[4395, 4396]	5227	[7167, 470]	7773	[8539, 9059]
136	[268, 269]	2682	[4397, 4398]	5228	[7168, 7169]	7774	[6613, 5955]
137	[270, 271]	2683	[4399, 4400]	5229	[336, 1283]	7775	[884, 9060]
138	[272, 273]	2684	[4401, 4402]	5230	[3255, 334]	7776	[9061, 9062]
139	[274, 275]	2685	[4403, 1376]	5231	[7170, 7171]	7777	[2232, 5986]

140	[276, 277]	2686	[4404, 4405]	5232	[7172, 3731]	7778	[1921, 2832]
141	[278, 279]	2687	[4406, 1522]	5233	[7173, 7174]	7779	[5185, 2451]
142	[280, 281]	2688	[1304, 3189]	5234	[7175, 990]	7780	[9063, 2525]
143	[282, 283]	2689	[4407, 3618]	5235	[7176, 7177]	7781	[9064, 5907]
144	[284, 285]	2690	[4408, 4409]	5236	[7178, 3920]	7782	[5684, 8961]
145	[286, 287]	2691	[4410, 4411]	5237	[7179, 1558]	7783	[4974, 1872]
146	[288, 289]	2692	[4412, 4413]	5238	[7180, 7181]	7784	[9065, 8583]
147	[290, 291]	2693	[4414, 3565]	5239	[7182, 7183]	7785	[5934, 5415]
148	[292, 293]	2694	[4415, 4416]	5240	[7184, 1663]	7786	[2890, 8444]
149	[294, 295]	2695	[1422, 4417]	5241	[7185, 7186]	7787	[9066, 5460]
150	[296, 297]	2696	[4418, 3463]	5242	[7187, 4552]	7788	[2810, 9067]
151	[298, 299]	2697	[1133, 4419]	5243	[7188, 3588]	7789	[6324, 5128]
152	[300, 301]	2698	[4420, 4421]	5244	[7189, 7190]	7790	[9055, 9068]
153	[302, 303]	2699	[4422, 4423]	5245	[1735, 3755]	7791	[2943, 4849]
154	[304, 305]	2700	[4424, 4425]	5246	[3395, 4482]	7792	[2636, 2059]
155	[306, 307]	2701	[4426, 4427]	5247	[7191, 7192]	7793	[8685, 2061]
156	[308, 309]	2702	[1355, 4428]	5248	[3869, 6821]	7794	[9069, 1993]
157	[310, 297]	2703	[3236, 4429]	5249	[4476, 7193]	7795	[9070, 8723]
158	[311, 312]	2704	[4430, 4431]	5250	[3690, 6855]	7796	[8958, 2637]
159	[313, 314]	2705	[4432, 4433]	5251	[1324, 7194]	7797	[5714, 6654]
160	[315, 316]	2706	[4434, 3828]	5252	[7195, 7196]	7798	[9071, 5463]
161	[317, 318]	2707	[4435, 1513]	5253	[7197, 4346]	7799	[5073, 48]
162	[319, 320]	2708	[4436, 4437]	5254	[7198, 3094]	7800	[5678, 4865]
163	[321, 322]	2709	[4250, 3855]	5255	[7128, 7199]	7801	[2467, 5796]
164	[323, 324]	2710	[4438, 4439]	5256	[7200, 7201]	7802	[2317, 5278]
165	[325, 326]	2711	[4440, 4441]	5257	[7202, 3418]	7803	[6364, 5806]
166	[327, 328]	2712	[4442, 4443]	5258	[3331, 1119]	7804	[8968, 2932]
167	[329, 330]	2713	[3525, 1536]	5259	[4744, 7203]	7805	[2818, 5843]
168	[331, 332]	2714	[4444, 4445]	5260	[3841, 378]	7806	[2889, 2737]
169	[333, 334]	2715	[4406, 4446]	5261	[6758, 1633]	7807	[9072, 8750]
170	[335, 336]	2716	[4447, 1516]	5262	[7204, 1635]	7808	[2891, 8445]
171	[337, 338]	2717	[4448, 3151]	5263	[7191, 6880]	7809	[511, 9005]
172	[339, 340]	2718	[4449, 380]	5264	[1167, 4371]	7810	[9073, 5628]
173	[341, 342]	2719	[3343, 1500]	5265	[7205, 4791]	7811	[9074, 665]
174	[343, 344]	2720	[4450, 26]	5266	[7206, 1281]	7812	[5499, 5345]
175	[290, 345]	2721	[4451, 1718]	5267	[7207, 1301]	7813	[2773, 2395]
176	[346, 347]	2722	[4452, 4453]	5268	[7208, 7209]	7814	[2450, 2285]
177	[348, 349]	2723	[3075, 289]	5269	[7210, 416]	7815	[516, 804]
178	[350, 351]	2724	[3761, 4454]	5270	[7025, 7211]	7816	[5034, 3036]
179	[352, 353]	2725	[4455, 3809]	5271	[3064, 7212]	7817	[5799, 9075]
180	[354, 355]	2726	[4456, 4457]	5272	[112, 4157]	7818	[498, 6069]
181	[356, 357]	2727	[4458, 4459]	5273	[3611, 6806]	7819	[6307, 53]
182	[358, 359]	2728	[4460, 4461]	5274	[3317, 7213]	7820	[6746, 156]
183	[360, 361]	2729	[1445, 4462]	5275	[7214, 4436]	7821	[6433, 6388]

184	[362, 363]	2730	[4463, 4464]	5276	[7215, 7216]	7822	[9076, 557]
185	[364, 365]	2731	[4465, 4466]	5277	[7000, 994]	7823	[2393, 2318]
186	[366, 367]	2732	[400, 3995]	5278	[7217, 1672]	7824	[5288, 5919]
187	[368, 369]	2733	[4467, 1238]	5279	[374, 7218]	7825	[9077, 9078]
188	[370, 371]	2734	[3164, 4429]	5280	[7219, 3565]	7826	[9055, 9079]
189	[372, 28]	2735	[4468, 3274]	5281	[3965, 372]	7827	[9080, 8859]
190	[373, 374]	2736	[4469, 4041]	5282	[7220, 4496]	7828	[2027, 6379]
191	[375, 376]	2737	[4470, 4471]	5283	[7221, 335]	7829	[2769, 624]
192	[377, 378]	2738	[4472, 104]	5284	[7222, 7223]	7830	[8898, 5949]
193	[379, 380]	2739	[4473, 3634]	5285	[6760, 3922]	7831	[8994, 8802]
194	[381, 382]	2740	[3148, 4474]	5286	[7224, 7225]	7832	[9081, 6378]
195	[383, 384]	2741	[285, 4475]	5287	[1077, 7226]	7833	[5086, 6547]
196	[385, 386]	2742	[4456, 1461]	5288	[4324, 7227]	7834	[6320, 864]
197	[387, 388]	2743	[3711, 1078]	5289	[7228, 6766]	7835	[9082, 4837]
198	[389, 390]	2744	[3781, 4476]	5290	[3360, 410]	7836	[4931, 1906]
199	[391, 392]	2745	[4477, 3466]	5291	[7229, 1668]	7837	[5074, 5886]
200	[393, 394]	2746	[1010, 4478]	5292	[6828, 4629]	7838	[9083, 9039]
201	[395, 396]	2747	[4479, 3987]	5293	[6903, 7230]	7839	[6389, 9084]
202	[397, 398]	2748	[4480, 275]	5294	[4477, 7231]	7840	[5341, 9085]
203	[399, 400]	2749	[4481, 4228]	5295	[7232, 1228]	7841	[9086, 9087]
204	[401, 402]	2750	[4482, 329]	5296	[7233, 7234]	7842	[2188, 8448]
205	[403, 404]	2751	[4483, 4484]	5297	[3335, 7235]	7843	[2714, 9088]
206	[405, 406]	2752	[1318, 4367]	5298	[1089, 7236]	7844	[6478, 9057]
207	[407, 408]	2753	[4485, 3077]	5299	[7237, 7238]	7845	[9089, 2338]
208	[409, 410]	2754	[4486, 4487]	5300	[7239, 6813]	7846	[6654, 8820]
209	[411, 412]	2755	[4461, 4488]	5301	[6857, 7240]	7847	[2248, 6624]
210	[413, 414]	2756	[3623, 4489]	5302	[7241, 126]	7848	[9090, 2107]
211	[415, 416]	2757	[4490, 3650]	5303	[7242, 4626]	7849	[9091, 5053]
212	[417, 418]	2758	[4491, 4271]	5304	[7243, 7244]	7850	[9092, 6397]
213	[419, 420]	2759	[4492, 4212]	5305	[3304, 1251]	7851	[9093, 9094]
214	[421, 422]	2760	[3425, 4493]	5306	[7245, 3917]	7852	[6336, 1757]
215	[423, 424]	2761	[4494, 3801]	5307	[7246, 7247]	7853	[2523, 2425]
216	[425, 426]	2762	[4495, 4496]	5308	[7248, 3738]	7854	[2555, 6430]
217	[427, 428]	2763	[3339, 3834]	5309	[1325, 1057]	7855	[1960, 9095]
218	[429, 430]	2764	[3814, 4497]	5310	[7249, 1389]	7856	[9096, 2778]
219	[431, 432]	2765	[4498, 3185]	5311	[7250, 7251]	7857	[5219, 5790]
220	[433, 434]	2766	[4499, 4500]	5312	[3982, 1216]	7858	[5127, 6325]
221	[435, 436]	2767	[4501, 1490]	5313	[6846, 1172]	7859	[5407, 1788]
222	[437, 335]	2768	[3529, 4502]	5314	[4565, 7252]	7860	[2688, 9097]
223	[438, 439]	2769	[4503, 4504]	5315	[7253, 1628]	7861	[9098, 5766]
224	[440, 441]	2770	[4505, 4506]	5316	[7254, 7255]	7862	[9099, 9079]
225	[442, 443]	2771	[4507, 4508]	5317	[7256, 4086]	7863	[8753, 9100]
226	[444, 445]	2772	[1541, 4509]	5318	[7257, 7258]	7864	[9101, 2239]
227	[446, 447]	2773	[4510, 3614]	5319	[1249, 7259]	7865	[2767, 5255]

228	[448, 449]	2774	[4511, 4512]	5320	[3405, 1194]	7866	[9102, 9103]
229	[450, 451]	2775	[4513, 3600]	5321	[7260, 4009]	7867	[9104, 5766]
230	[452, 453]	2776	[4514, 4515]	5322	[7261, 7262]	7868	[2358, 916]
231	[454, 455]	2777	[1734, 4516]	5323	[1599, 7201]	7869	[2077, 9105]
232	[456, 457]	2778	[4517, 3982]	5324	[7263, 6765]	7870	[2500, 2961]
233	[458, 459]	2779	[1441, 4227]	5325	[3067, 1510]	7871	[8830, 5098]
234	[460, 461]	2780	[1359, 4518]	5326	[3777, 7264]	7872	[903, 5867]
235	[462, 463]	2781	[4519, 3151]	5327	[7265, 7266]	7873	[6742, 9106]
236	[464, 465]	2782	[4520, 4521]	5328	[7267, 3491]	7874	[8322, 9107]
237	[466, 467]	2783	[4522, 1151]	5329	[7268, 3522]	7875	[9108, 5827]
238	[468, 358]	2784	[4523, 3533]	5330	[7269, 7270]	7876	[2235, 8465]
239	[469, 470]	2785	[4524, 4525]	5331	[7271, 7272]	7877	[9109, 4824]
240	[471, 472]	2786	[4526, 4527]	5332	[3767, 1422]	7878	[1830, 5169]
241	[473, 474]	2787	[4214, 4528]	5333	[7273, 7014]	7879	[8731, 9110]
242	[475, 476]	2788	[4432, 3408]	5334	[6861, 7274]	7880	[8945, 2431]
243	[477, 478]	2789	[4159, 987]	5335	[7275, 3934]	7881	[9111, 2311]
244	[19, 479]	2790	[4529, 4530]	5336	[4187, 7276]	7882	[1981, 5570]
245	[480, 481]	2791	[4531, 3830]	5337	[7277, 6905]	7883	[9112, 180]
246	[482, 483]	2792	[4532, 4533]	5338	[7278, 7279]	7884	[8546, 2739]
247	[484, 83]	2793	[4534, 4535]	5339	[4582, 7280]	7885	[9113, 8689]
248	[485, 486]	2794	[4536, 4537]	5340	[7281, 7282]	7886	[9026, 9114]
249	[487, 488]	2795	[4538, 4539]	5341	[7283, 7284]	7887	[5600, 8983]
250	[489, 384]	2796	[4540, 70]	5342	[6813, 3358]	7888	[9115, 4994]
251	[490, 491]	2797	[4541, 4542]	5343	[7285, 3551]	7889	[2271, 8710]
252	[492, 493]	2798	[4543, 4544]	5344	[1594, 302]	7890	[5914, 8510]
253	[494, 495]	2799	[4545, 4022]	5345	[7286, 3144]	7891	[9116, 5854]
254	[128, 496]	2800	[4546, 4392]	5346	[7249, 3107]	7892	[5925, 9100]
255	[497, 498]	2801	[4547, 4548]	5347	[7287, 4308]	7893	[5519, 8371]
256	[499, 500]	2802	[4549, 4550]	5348	[4646, 7240]	7894	[8938, 532]
257	[501, 502]	2803	[4551, 4552]	5349	[7288, 1334]	7895	[9117, 5040]
258	[503, 504]	2804	[4553, 4554]	5350	[7289, 7290]	7896	[5986, 619]
259	[505, 506]	2805	[3688, 1573]	5351	[3613, 7291]	7897	[6399, 9118]
260	[507, 508]	2806	[4555, 1292]	5352	[3064, 7292]	7898	[9119, 5504]
261	[509, 510]	2807	[4556, 4168]	5353	[1673, 7114]	7899	[6251, 8709]
262	[511, 512]	2808	[4557, 1149]	5354	[1248, 83]	7900	[744, 9120]
263	[513, 514]	2809	[4558, 4306]	5355	[7293, 1347]	7901	[8553, 2880]
264	[515, 516]	2810	[1214, 421]	5356	[7294, 3880]	7902	[6615, 8364]
265	[517, 518]	2811	[4559, 4560]	5357	[3682, 1158]	7903	[5012, 5563]
266	[519, 520]	2812	[4561, 1328]	5358	[4639, 7295]	7904	[9121, 5598]
267	[521, 522]	2813	[4562, 4563]	5359	[7238, 1582]	7905	[853, 9122]
268	[523, 240]	2814	[4564, 4565]	5360	[7296, 7297]	7906	[5906, 5510]
269	[524, 525]	2815	[1079, 471]	5361	[7298, 4765]	7907	[2763, 5175]
270	[526, 527]	2816	[4335, 1229]	5362	[3076, 3902]	7908	[5977, 6574]
271	[528, 529]	2817	[4566, 4567]	5363	[1125, 455]	7909	[9100, 569]

272	[530, 531]	2818	[4568, 4569]	5364	[3619, 7299]	7910	[631, 6459]
273	[532, 134]	2819	[4570, 1331]	5365	[438, 7300]	7911	[5694, 5416]
274	[533, 534]	2820	[425, 3911]	5366	[305, 7301]	7912	[2320, 2261]
275	[535, 536]	2821	[3570, 1515]	5367	[7302, 292]	7913	[9123, 2446]
276	[537, 538]	2822	[1171, 4571]	5368	[7185, 7303]	7914	[6348, 5647]
277	[539, 526]	2823	[4572, 4573]	5369	[7304, 4579]	7915	[2688, 9124]
278	[540, 541]	2824	[4574, 4575]	5370	[7305, 4079]	7916	[218, 869]
279	[542, 543]	2825	[4576, 261]	5371	[4695, 7306]	7917	[9125, 2663]
280	[544, 12]	2826	[4577, 4578]	5372	[7307, 7308]	7918	[694, 9126]
281	[545, 546]	2827	[4579, 4580]	5373	[7277, 7309]	7919	[6431, 9127]
282	[547, 215]	2828	[4581, 3152]	5374	[7033, 4590]	7920	[5490, 6221]
283	[548, 549]	2829	[1633, 4202]	5375	[460, 7310]	7921	[6645, 3013]
284	[550, 551]	2830	[4582, 4583]	5376	[1268, 3180]	7922	[9121, 9111]
285	[552, 553]	2831	[4584, 4039]	5377	[1188, 4763]	7923	[5898, 8766]
286	[554, 555]	2832	[3322, 4493]	5378	[7311, 3440]	7924	[9128, 9075]
287	[556, 557]	2833	[4585, 4502]	5379	[4558, 7312]	7925	[8610, 6097]
288	[558, 559]	2834	[4586, 4587]	5380	[7313, 3639]	7926	[9129, 2851]
289	[560, 561]	2835	[1378, 387]	5381	[1234, 6906]	7927	[9130, 5042]
290	[562, 563]	2836	[4588, 4589]	5382	[7314, 1456]	7928	[9131, 5509]
291	[564, 565]	2837	[4590, 1048]	5383	[4386, 7315]	7929	[6069, 8488]
292	[566, 567]	2838	[367, 4591]	5384	[7316, 7044]	7930	[8637, 2674]
293	[568, 569]	2839	[4592, 4593]	5385	[7317, 6919]	7931	[9132, 5203]
294	[570, 571]	2840	[4594, 4595]	5386	[377, 7318]	7932	[9133, 5227]
295	[572, 573]	2841	[4596, 4597]	5387	[7319, 432]	7933	[2534, 9134]
296	[574, 575]	2842	[4598, 3856]	5388	[1128, 259]	7934	[8502, 9135]
297	[576, 577]	2843	[4599, 4600]	5389	[6, 1129]	7935	[6728, 5943]
298	[578, 579]	2844	[4601, 1103]	5390	[1213, 7320]	7936	[8758, 821]
299	[580, 581]	2845	[4602, 1480]	5391	[7321, 3111]	7937	[5953, 2737]
300	[582, 583]	2846	[1317, 4366]	5392	[449, 1098]	7938	[505, 5121]
301	[584, 585]	2847	[3309, 435]	5393	[1730, 3440]	7939	[6322, 8679]
302	[586, 587]	2848	[3340, 3835]	5394	[7322, 7323]	7940	[3027, 6465]
303	[588, 589]	2849	[4534, 4603]	5395	[7324, 7325]	7941	[8, 6423]
304	[590, 591]	2850	[4604, 3596]	5396	[454, 3169]	7942	[9136, 6726]
305	[592, 593]	2851	[4605, 3513]	5397	[7326, 1611]	7943	[2262, 6485]
306	[594, 595]	2852	[4606, 3549]	5398	[7327, 301]	7944	[9137, 5489]
307	[596, 597]	2853	[4607, 4608]	5399	[6879, 7192]	7945	[5130, 9138]
308	[598, 599]	2854	[4609, 4610]	5400	[7328, 4716]	7946	[6305, 4861]
309	[600, 601]	2855	[1592, 4611]	5401	[3559, 4529]	7947	[8829, 1935]
310	[602, 603]	2856	[4612, 4613]	5402	[7329, 7330]	7948	[9139, 4906]
311	[604, 605]	2857	[4614, 3358]	5403	[7331, 3281]	7949	[6018, 6599]
312	[606, 607]	2858	[4615, 3447]	5404	[7332, 7333]	7950	[6474, 8886]
313	[608, 609]	2859	[1006, 4616]	5405	[355, 1001]	7951	[9140, 8665]
314	[610, 611]	2860	[3156, 3280]	5406	[7334, 7335]	7952	[9141, 8967]
315	[612, 613]	2861	[3852, 4617]	5407	[3982, 1314]	7953	[9142, 6554]

316	[614, 615]	2862	[4618, 4619]	5408	[7336, 7337]	7954	[9143, 8345]
317	[616, 617]	2863	[4620, 4621]	5409	[7338, 458]	7955	[5186, 5121]
318	[618, 619]	2864	[115, 4032]	5410	[6912, 4780]	7956	[8448, 6256]
319	[620, 621]	2865	[1439, 452]	5411	[7339, 7340]	7957	[8960, 5774]
320	[622, 623]	2866	[4046, 4622]	5412	[7341, 7342]	7958	[4983, 2514]
321	[624, 625]	2867	[4623, 4207]	5413	[7343, 7344]	7959	[9144, 8630]
322	[626, 627]	2868	[1052, 3546]	5414	[7345, 7346]	7960	[6195, 132]
323	[628, 629]	2869	[4382, 4313]	5415	[7347, 3131]	7961	[6643, 6745]
324	[630, 631]	2870	[4624, 4625]	5416	[7348, 1717]	7962	[8544, 9145]
325	[632, 633]	2871	[4208, 4382]	5417	[7349, 7350]	7963	[9146, 5445]
326	[634, 581]	2872	[3162, 4626]	5418	[415, 7351]	7964	[9147, 5828]
327	[635, 636]	2873	[3271, 4254]	5419	[1283, 7352]	7965	[9148, 248]
328	[637, 638]	2874	[4627, 1439]	5420	[3828, 7353]	7966	[8779, 5440]
329	[639, 640]	2875	[4628, 4629]	5421	[3967, 7354]	7967	[5590, 4871]
330	[641, 642]	2876	[119, 1415]	5422	[7355, 263]	7968	[9149, 5366]
331	[643, 644]	2877	[4630, 4246]	5423	[3718, 7356]	7969	[221, 2782]
332	[645, 646]	2878	[358, 4464]	5424	[7357, 4129]	7970	[9150, 723]
333	[647, 648]	2879	[4631, 3886]	5425	[3717, 3913]	7971	[9151, 8711]
334	[649, 650]	2880	[1066, 4156]	5426	[6954, 7358]	7972	[9152, 2357]
335	[651, 652]	2881	[4632, 4633]	5427	[3724, 6889]	7973	[5117, 8321]
336	[653, 654]	2882	[4634, 4635]	5428	[7359, 3953]	7974	[9153, 6340]
337	[655, 207]	2883	[4636, 4637]	5429	[1014, 7360]	7975	[540, 2336]
338	[656, 657]	2884	[4009, 4638]	5430	[6941, 7361]	7976	[9154, 9155]
339	[658, 659]	2885	[1124, 454]	5431	[7362, 7363]	7977	[9156, 9055]
340	[660, 661]	2886	[4639, 398]	5432	[7364, 7365]	7978	[520, 2044]
341	[662, 663]	2887	[4640, 4641]	5433	[7366, 7367]	7979	[6057, 2685]
342	[664, 665]	2888	[4642, 4470]	5434	[7368, 4487]	7980	[9157, 830]
343	[666, 667]	2889	[4643, 1496]	5435	[7369, 7093]	7981	[9158, 8661]
344	[668, 669]	2890	[3892, 3423]	5436	[4535, 7370]	7982	[9159, 5063]
345	[670, 671]	2891	[4644, 4645]	5437	[7371, 4638]	7983	[4897, 9160]
346	[672, 673]	2892	[4646, 4647]	5438	[7372, 352]	7984	[9067, 547]
347	[674, 675]	2893	[4648, 4649]	5439	[6950, 354]	7985	[8605, 4939]
348	[676, 677]	2894	[1394, 342]	5440	[7373, 4266]	7986	[6029, 9161]
349	[678, 679]	2895	[4650, 4651]	5441	[1652, 7374]	7987	[6156, 6252]
350	[680, 681]	2896	[3188, 1305]	5442	[3636, 7375]	7988	[9162, 6173]
351	[682, 683]	2897	[4652, 1260]	5443	[7376, 3629]	7989	[2869, 5478]
352	[684, 685]	2898	[3685, 4653]	5444	[7377, 3320]	7990	[2870, 2885]
353	[686, 687]	2899	[4654, 4655]	5445	[4071, 3175]	7991	[6614, 5342]
354	[688, 689]	2900	[4656, 4657]	5446	[1280, 7378]	7992	[8421, 624]
355	[690, 691]	2901	[4658, 1467]	5447	[7062, 7379]	7993	[8682, 6191]
356	[692, 693]	2902	[4659, 382]	5448	[1639, 7380]	7994	[9163, 2415]
357	[694, 695]	2903	[3955, 1012]	5449	[273, 6916]	7995	[6083, 9164]
358	[696, 697]	2904	[3075, 4660]	5450	[4684, 7381]	7996	[6634, 6678]
359	[698, 699]	2905	[4661, 4662]	5451	[4476, 7382]	7997	[9144, 6544]

360	[700, 701]	2906	[4382, 4663]	5452	[4243, 7383]	7998	[9165, 8536]
361	[702, 703]	2907	[3660, 1453]	5453	[7384, 7385]	7999	[9166, 9167]
362	[704, 705]	2908	[3453, 4664]	5454	[7136, 1549]	8000	[9168, 8446]
363	[706, 707]	2909	[4665, 4666]	5455	[6892, 7386]	8001	[1957, 2515]
364	[708, 709]	2910	[4667, 4668]	5456	[7387, 4044]	8002	[2397, 8840]
365	[710, 711]	2911	[1236, 3624]	5457	[7388, 7389]	8003	[2676, 9169]
366	[712, 713]	2912	[4669, 4405]	5458	[7390, 7391]	8004	[577, 6137]
367	[714, 715]	2913	[4670, 4671]	5459	[7120, 4815]	8005	[5725, 8960]
368	[716, 717]	2914	[4672, 4673]	5460	[7392, 7393]	8006	[6596, 1902]
369	[718, 719]	2915	[4674, 4675]	5461	[3476, 4350]	8007	[2806, 9170]
370	[720, 721]	2916	[4676, 4677]	5462	[3048, 3320]	8008	[6271, 2922]
371	[722, 723]	2917	[4678, 4679]	5463	[7394, 6979]	8009	[9171, 2381]
372	[724, 725]	2918	[4680, 4681]	5464	[7395, 7396]	8010	[5235, 9084]
373	[726, 727]	2919	[26, 3500]	5465	[4709, 1518]	8011	[2961, 6283]
374	[728, 534]	2920	[4682, 3376]	5466	[4518, 3627]	8012	[6590, 8870]
375	[729, 730]	2921	[4683, 4684]	5467	[7397, 1233]	8013	[9172, 6584]
376	[731, 732]	2922	[4685, 3096]	5468	[4765, 7227]	8014	[876, 2760]
377	[733, 734]	2923	[4599, 1753]	5469	[7398, 6915]	8015	[5605, 1947]
378	[735, 736]	2924	[4686, 3316]	5470	[7399, 7400]	8016	[5785, 620]
379	[737, 738]	2925	[1750, 4101]	5471	[7401, 6964]	8017	[9173, 5855]
380	[739, 740]	2926	[3484, 4402]	5472	[7402, 3375]	8018	[208, 8963]
381	[741, 742]	2927	[4687, 4688]	5473	[4669, 7403]	8019	[5650, 9174]
382	[743, 744]	2928	[4065, 4689]	5474	[7404, 1609]	8020	[8960, 9175]
383	[745, 746]	2929	[4434, 3794]	5475	[6917, 7213]	8021	[4999, 9105]
384	[747, 748]	2930	[4690, 4691]	5476	[7405, 7406]	8022	[1825, 4861]
385	[749, 750]	2931	[4692, 4693]	5477	[4690, 1430]	8023	[9176, 8507]
386	[751, 752]	2932	[4694, 3957]	5478	[3546, 3162]	8024	[9177, 9038]
387	[753, 754]	2933	[4695, 4696]	5479	[7407, 3499]	8025	[2037, 6450]
388	[755, 756]	2934	[4697, 3521]	5480	[7408, 4587]	8026	[9178, 8930]
389	[757, 758]	2935	[4698, 4699]	5481	[4198, 404]	8027	[9179, 2494]
390	[759, 760]	2936	[4700, 4701]	5482	[7409, 7410]	8028	[2733, 8957]
391	[761, 762]	2937	[4702, 4703]	5483	[7411, 1451]	8029	[8321, 2005]
392	[763, 62]	2938	[4704, 4705]	5484	[7412, 7413]	8030	[5555, 2105]
393	[764, 765]	2939	[1151, 4706]	5485	[1484, 7414]	8031	[9180, 5475]
394	[766, 767]	2940	[451, 3580]	5486	[7415, 7416]	8032	[9034, 5511]
395	[768, 769]	2941	[4707, 4708]	5487	[7051, 3573]	8033	[9181, 9182]
396	[770, 771]	2942	[4709, 4710]	5488	[29, 3247]	8034	[9183, 5719]
397	[772, 773]	2943	[4467, 4155]	5489	[7417, 4704]	8035	[9184, 2009]
398	[774, 775]	2944	[4711, 1084]	5490	[967, 3253]	8036	[9062, 9047]
399	[776, 777]	2945	[4712, 1653]	5491	[3592, 6909]	8037	[2624, 9185]
400	[778, 779]	2946	[4713, 4714]	5492	[1023, 4758]	8038	[555, 9186]
401	[780, 781]	2947	[4715, 4716]	5493	[4353, 1642]	8039	[5858, 2317]
402	[782, 783]	2948	[4717, 4718]	5494	[7418, 4700]	8040	[8659, 626]
403	[784, 785]	2949	[4713, 4719]	5495	[1390, 4007]	8041	[8375, 9187]

404	[786, 787]	2950	[4720, 447]	5496	[1030, 7419]	8042	[8653, 8662]
405	[788, 789]	2951	[4721, 3470]	5497	[7420, 7421]	8043	[5384, 9188]
406	[790, 791]	2952	[4722, 4723]	5498	[3305, 1252]	8044	[2846, 2658]
407	[210, 792]	2953	[4724, 4725]	5499	[7392, 3839]	8045	[9189, 4848]
408	[793, 794]	2954	[4726, 3142]	5500	[7422, 3877]	8046	[8950, 9190]
409	[795, 796]	2955	[4727, 4728]	5501	[7423, 7424]	8047	[5260, 8547]
410	[797, 798]	2956	[4729, 4730]	5502	[7425, 7426]	8048	[6151, 220]
411	[550, 799]	2957	[4731, 4641]	5503	[7427, 3950]	8049	[9191, 2624]
412	[800, 801]	2958	[3722, 4229]	5504	[3368, 4475]	8050	[9184, 9192]
413	[802, 14]	2959	[4732, 4733]	5505	[1471, 7428]	8051	[2573, 2618]
414	[803, 804]	2960	[4734, 4735]	5506	[4280, 7429]	8052	[9193, 698]
415	[805, 806]	2961	[1324, 4400]	5507	[7430, 7235]	8053	[1824, 6305]
416	[807, 808]	2962	[4736, 4737]	5508	[7030, 872]	8054	[9194, 2831]
417	[809, 810]	2963	[4738, 3610]	5509	[6773, 4012]	8055	[6094, 6106]
418	[811, 812]	2964	[3994, 4739]	5510	[4120, 293]	8056	[4894, 8527]
419	[813, 814]	2965	[4740, 4741]	5511	[1123, 1412]	8057	[8581, 2176]
420	[815, 816]	2966	[3234, 4742]	5512	[7431, 3545]	8058	[8886, 2194]
421	[817, 818]	2967	[452, 4743]	5513	[3674, 3126]	8059	[8961, 9195]
422	[819, 820]	2968	[4744, 4745]	5514	[7432, 7433]	8060	[9196, 5274]
423	[821, 822]	2969	[120, 4746]	5515	[7325, 7035]	8061	[9197, 8992]
424	[823, 824]	2970	[4747, 1207]	5516	[1622, 1559]	8062	[2266, 8998]
425	[825, 144]	2971	[4748, 3244]	5517	[4339, 3733]	8063	[9198, 9199]
426	[826, 827]	2972	[4749, 4750]	5518	[6933, 1160]	8064	[9200, 2151]
427	[621, 828]	2973	[3082, 4751]	5519	[7434, 4359]	8065	[9149, 9201]
428	[829, 830]	2974	[4752, 4753]	5520	[7435, 7436]	8066	[5597, 9111]
429	[831, 832]	2975	[4001, 4148]	5521	[1108, 3991]	8067	[2840, 5778]
430	[833, 834]	2976	[1043, 1616]	5522	[7123, 7017]	8068	[9202, 9135]
431	[835, 836]	2977	[1243, 4320]	5523	[4263, 7008]	8069	[5860, 2559]
432	[837, 838]	2978	[4754, 1456]	5524	[1478, 3080]	8070	[5554, 6129]
433	[839, 197]	2979	[4330, 4529]	5525	[7437, 7306]	8071	[9203, 9204]
434	[840, 841]	2980	[3925, 4409]	5526	[7438, 7439]	8072	[2127, 4928]
435	[842, 220]	2981	[4755, 4725]	5527	[1412, 4792]	8073	[2726, 6560]
436	[843, 844]	2982	[4058, 3207]	5528	[7440, 4404]	8074	[1904, 9205]
437	[845, 653]	2983	[3238, 3555]	5529	[111, 980]	8075	[8667, 6084]
438	[846, 847]	2984	[4756, 1360]	5530	[7441, 4512]	8076	[9196, 817]
439	[848, 849]	2985	[4757, 4693]	5531	[3129, 985]	8077	[5389, 5545]
440	[850, 851]	2986	[422, 4758]	5532	[7442, 4784]	8078	[8391, 5153]
441	[852, 853]	2987	[4759, 4760]	5533	[7443, 4621]	8079	[9206, 4878]
442	[854, 855]	2988	[4761, 3563]	5534	[1219, 7444]	8080	[8317, 2374]
443	[856, 857]	2989	[3292, 4762]	5535	[4304, 6974]	8081	[9207, 5911]
444	[858, 750]	2990	[3579, 964]	5536	[7445, 7196]	8082	[2042, 5433]
445	[859, 860]	2991	[4763, 3948]	5537	[3838, 7393]	8083	[9208, 9209]
446	[203, 861]	2992	[1474, 4764]	5538	[3743, 3398]	8084	[6566, 8473]
447	[862, 863]	2993	[4765, 4766]	5539	[7446, 7447]	8085	[9210, 5691]

448	[864, 865]	2994	[4767, 4768]	5540	[3961, 7448]	8086	[9211, 2566]
449	[866, 867]	2995	[4769, 4770]	5541	[7345, 7449]	8087	[5250, 9212]
450	[868, 869]	2996	[4771, 4772]	5542	[7016, 7450]	8088	[9213, 9214]
451	[870, 773]	2997	[4773, 4774]	5543	[4820, 3354]	8089	[858, 6071]
452	[871, 872]	2998	[4775, 4776]	5544	[7451, 366]	8090	[6048, 9106]
453	[873, 874]	2999	[4777, 4299]	5545	[7452, 7453]	8091	[9215, 9216]
454	[875, 876]	3000	[4778, 3847]	5546	[7454, 4450]	8092	[8558, 2607]
455	[877, 878]	3001	[3146, 1539]	5547	[7455, 7456]	8093	[2983, 2569]
456	[846, 879]	3002	[4779, 3651]	5548	[7457, 7458]	8094	[6482, 9217]
457	[880, 881]	3003	[4780, 4781]	5549	[1637, 7459]	8095	[8595, 9095]
458	[882, 883]	3004	[4782, 4783]	5550	[7460, 6991]	8096	[9218, 8420]
459	[884, 885]	3005	[4784, 1165]	5551	[1481, 1446]	8097	[9219, 6270]
460	[886, 887]	3006	[4785, 3312]	5552	[7461, 7018]	8098	[2927, 8888]
461	[888, 889]	3007	[3210, 1068]	5553	[7461, 4359]	8099	[8569, 9220]
462	[890, 891]	3008	[4685, 3265]	5554	[3820, 4701]	8100	[8823, 1825]
463	[892, 893]	3009	[4786, 4787]	5555	[3177, 4250]	8101	[9221, 9222]
464	[136, 894]	3010	[3494, 4788]	5556	[7462, 1399]	8102	[2576, 8745]
465	[895, 896]	3011	[4789, 4379]	5557	[7463, 1069]	8103	[6197, 5314]
466	[897, 898]	3012	[4092, 1704]	5558	[4256, 1256]	8104	[9223, 2354]
467	[899, 900]	3013	[4790, 4791]	5559	[7464, 3936]	8105	[2635, 9224]
468	[616, 901]	3014	[3796, 4792]	5560	[3793, 7465]	8106	[5568, 8659]
469	[902, 903]	3015	[4793, 3766]	5561	[7466, 1373]	8107	[9225, 2773]
470	[904, 905]	3016	[4794, 4795]	5562	[7467, 478]	8108	[2549, 8862]
471	[906, 907]	3017	[4796, 4797]	5563	[7468, 7469]	8109	[6603, 2173]
472	[908, 909]	3018	[4798, 3664]	5564	[7470, 3718]	8110	[5173, 5406]
473	[910, 911]	3019	[1437, 3676]	5565	[7221, 3881]	8111	[9041, 2920]
474	[912, 913]	3020	[4799, 980]	5566	[6867, 6865]	8112	[1919, 8647]
475	[914, 915]	3021	[4800, 4779]	5567	[6891, 7471]	8113	[9226, 6281]
476	[916, 917]	3022	[4801, 3945]	5568	[7472, 1198]	8114	[2590, 9227]
477	[571, 918]	3023	[3195, 3554]	5569	[7473, 7474]	8115	[2772, 2394]
478	[919, 897]	3024	[4802, 4803]	5570	[6763, 3836]	8116	[1757, 9097]
479	[920, 921]	3025	[4253, 3272]	5571	[7475, 3473]	8117	[9228, 497]
480	[922, 923]	3026	[4804, 3405]	5572	[1040, 4563]	8118	[9229, 9230]
481	[924, 925]	3027	[4805, 4806]	5573	[6793, 3850]	8119	[2744, 2784]
482	[926, 927]	3028	[4807, 355]	5574	[4021, 7476]	8120	[2257, 5395]
483	[928, 929]	3029	[4808, 4809]	5575	[1273, 7382]	8121	[6277, 9231]
484	[222, 169]	3030	[4810, 3676]	5576	[3315, 476]	8122	[2427, 6082]
485	[930, 931]	3031	[4811, 4812]	5577	[1061, 1225]	8123	[9232, 5908]
486	[932, 933]	3032	[4813, 3328]	5578	[7477, 1676]	8124	[2244, 2963]
487	[934, 935]	3033	[4814, 4815]	5579	[7478, 1537]	8125	[5386, 5092]
488	[936, 937]	3034	[4321, 4580]	5580	[7479, 3668]	8126	[9233, 8563]
489	[938, 939]	3035	[4816, 3531]	5581	[7480, 7481]	8127	[2094, 5304]
490	[940, 571]	3036	[4817, 3997]	5582	[7482, 7157]	8128	[9214, 2542]
491	[941, 942]	3037	[4818, 474]	5583	[7483, 7484]	8129	[5257, 6555]

492	[943, 944]	3038	[1675, 4295]	5584	[7485, 3535]	8130	[8770, 2188]
493	[945, 946]	3039	[4819, 4285]	5585	[3495, 7486]	8131	[9234, 4881]
494	[947, 948]	3040	[1203, 4820]	5586	[7487, 7488]	8132	[3006, 9235]
495	[949, 950]	3041	[4821, 190]	5587	[1230, 445]	8133	[2486, 5593]
496	[253, 946]	3042	[4822, 2481]	5588	[6765, 7489]	8134	[6207, 5333]
497	[951, 952]	3043	[2226, 4823]	5589	[7320, 1022]	8135	[9236, 8933]
498	[953, 954]	3044	[2355, 867]	5590	[7490, 3493]	8136	[9237, 131]
499	[955, 956]	3045	[1918, 2941]	5591	[7491, 7492]	8137	[9238, 8582]
500	[957, 958]	3046	[4824, 4825]	5592	[4678, 3053]	8138	[4852, 9239]
501	[94, 959]	3047	[2407, 2138]	5593	[7493, 7494]	8139	[5580, 5707]
502	[960, 961]	3048	[4826, 4827]	5594	[7495, 4505]	8140	[8738, 136]
503	[962, 963]	3049	[4828, 2042]	5595	[7496, 7497]	8141	[9240, 249]
504	[451, 964]	3050	[4829, 4830]	5596	[7498, 1180]	8142	[3020, 9241]
505	[965, 966]	3051	[4831, 4832]	5597	[1538, 7499]	8143	[1853, 6723]
506	[967, 968]	3052	[4833, 1963]	5598	[4485, 3902]	8144	[8767, 2219]
507	[969, 970]	3053	[1755, 4834]	5599	[7500, 3192]	8145	[5524, 9242]
508	[971, 972]	3054	[4835, 1816]	5600	[3625, 4087]	8146	[2074, 9243]
509	[973, 974]	3055	[4836, 4837]	5601	[3763, 7501]	8147	[9244, 9245]
510	[975, 123]	3056	[4838, 4839]	5602	[1542, 4788]	8148	[9140, 9246]
511	[976, 977]	3057	[4840, 4841]	5603	[7502, 7503]	8149	[9247, 8937]
512	[978, 979]	3058	[684, 4842]	5604	[4271, 4419]	8150	[5219, 8757]
513	[980, 981]	3059	[4843, 4844]	5605	[7504, 3366]	8151	[6546, 6364]
514	[982, 983]	3060	[4845, 4846]	5606	[3121, 7022]	8152	[6317, 5918]
515	[984, 985]	3061	[4847, 4848]	5607	[7505, 4466]	8153	[9248, 9249]
516	[986, 987]	3062	[4849, 4850]	5608	[3824, 68]	8154	[9250, 9251]
517	[988, 989]	3063	[741, 2947]	5609	[7506, 3950]	8155	[6523, 2420]
518	[990, 991]	3064	[4851, 4852]	5610	[3602, 3140]	8156	[8880, 1847]
519	[992, 993]	3065	[570, 2203]	5611	[7507, 4287]	8157	[930, 5915]
520	[994, 995]	3066	[4853, 4854]	5612	[1566, 7508]	8158	[533, 6682]
521	[996, 997]	3067	[4855, 1775]	5613	[7509, 3867]	8159	[8859, 9059]
522	[998, 999]	3068	[4856, 611]	5614	[7510, 7511]	8160	[763, 6200]
523	[1000, 1001]	3069	[4857, 4858]	5615	[7475, 1660]	8161	[8794, 6458]
524	[1002, 1003]	3070	[4859, 4860]	5616	[1212, 7512]	8162	[8833, 8379]
525	[1004, 1005]	3071	[4861, 4862]	5617	[7513, 7514]	8163	[2445, 2933]
526	[1006, 1007]	3072	[4863, 2065]	5618	[7175, 7515]	8164	[4988, 5215]
527	[1008, 1009]	3073	[4864, 4865]	5619	[7516, 7517]	8165	[9252, 8378]
528	[1010, 488]	3074	[4866, 4867]	5620	[3057, 7518]	8166	[4844, 5202]
529	[1011, 1012]	3075	[4868, 4869]	5621	[3492, 7519]	8167	[8884, 5210]
530	[1013, 1014]	3076	[4870, 4871]	5622	[7520, 3876]	8168	[9253, 657]
531	[1015, 1016]	3077	[4872, 4873]	5623	[7521, 7522]	8169	[9254, 9255]
532	[1017, 952]	3078	[4874, 1968]	5624	[7523, 1633]	8170	[2498, 9256]
533	[1018, 1019]	3079	[4875, 4876]	5625	[7524, 7162]	8171	[2412, 6330]
534	[1020, 1021]	3080	[4877, 4878]	5626	[7294, 6924]	8172	[9257, 8897]
535	[1022, 1023]	3081	[4879, 4880]	5627	[7525, 4061]	8173	[6055, 6722]

536	[1024, 1025]	3082	[4881, 2846]	5628	[7248, 1322]	8174	[6357, 6579]
537	[1026, 1027]	3083	[642, 4882]	5629	[6936, 6802]	8175	[8508, 6541]
538	[1028, 1029]	3084	[4883, 1967]	5630	[3824, 7526]	8176	[8788, 2404]
539	[1030, 1031]	3085	[4884, 497]	5631	[4371, 7119]	8177	[6637, 1804]
540	[1032, 1033]	3086	[4885, 4886]	5632	[7523, 3454]	8178	[8627, 8900]
541	[1034, 1035]	3087	[4887, 4888]	5633	[7527, 7100]	8179	[9258, 5080]
542	[1036, 1037]	3088	[4889, 4890]	5634	[955, 7528]	8180	[812, 9259]
543	[1038, 1039]	3089	[2682, 4891]	5635	[7529, 7530]	8181	[9260, 2516]
544	[1040, 1041]	3090	[1967, 4892]	5636	[7531, 3993]	8182	[5120, 690]
545	[1042, 1043]	3091	[1859, 2017]	5637	[7532, 7000]	8183	[6518, 6630]
546	[1044, 1045]	3092	[4893, 519]	5638	[3307, 6802]	8184	[1814, 8857]
547	[1046, 1047]	3093	[4894, 4895]	5639	[30, 7533]	8185	[1776, 9261]
548	[1048, 1049]	3094	[4896, 1990]	5640	[7534, 3692]	8186	[4930, 6491]
549	[1050, 1051]	3095	[4897, 4898]	5641	[7015, 7535]	8187	[6413, 8976]
550	[1052, 1053]	3096	[2755, 1849]	5642	[7536, 3427]	8188	[1767, 9262]
551	[1054, 1055]	3097	[4899, 4900]	5643	[4302, 3324]	8189	[2900, 8517]
552	[259, 1056]	3098	[4901, 4902]	5644	[7537, 7538]	8190	[2241, 9263]
553	[261, 1057]	3099	[4903, 4904]	5645	[7539, 7540]	8191	[565, 9209]
554	[1058, 1059]	3100	[4905, 4906]	5646	[7541, 4180]	8192	[6337, 193]
555	[1060, 1061]	3101	[4907, 4908]	5647	[7542, 7543]	8193	[9264, 6090]
556	[1062, 1063]	3102	[4909, 4910]	5648	[7544, 7053]	8194	[5142, 621]
557	[1064, 1065]	3103	[4911, 842]	5649	[7545, 3670]	8195	[6565, 2438]
558	[1066, 1014]	3104	[4912, 4913]	5650	[4683, 3746]	8196	[8912, 9265]
559	[1067, 1068]	3105	[4914, 4915]	5651	[7546, 1636]	8197	[2878, 9134]
560	[1069, 1070]	3106	[4916, 4917]	5652	[7547, 3788]	8198	[6658, 8440]
561	[1071, 1072]	3107	[4918, 895]	5653	[7548, 7549]	8199	[2523, 5033]
562	[1073, 1074]	3108	[530, 2803]	5654	[7550, 1473]	8200	[5169, 6194]
563	[1075, 1076]	3109	[4919, 2210]	5655	[4296, 4159]	8201	[5912, 5324]
564	[1077, 1078]	3110	[4920, 4921]	5656	[7551, 4763]	8202	[8988, 9222]
565	[1079, 1080]	3111	[4922, 2671]	5657	[3683, 7002]	8203	[2109, 8831]
566	[1081, 1082]	3112	[4923, 1881]	5658	[3220, 7552]	8204	[5553, 2653]
567	[1083, 1084]	3113	[4924, 4925]	5659	[1289, 1146]	8205	[2921, 130]
568	[1085, 1086]	3114	[4926, 4927]	5660	[7553, 101]	8206	[6000, 2034]
569	[1087, 1088]	3115	[4928, 4929]	5661	[7554, 7555]	8207	[9266, 5655]
570	[1089, 1090]	3116	[2242, 814]	5662	[7556, 1400]	8208	[6584, 6391]
571	[1091, 1092]	3117	[2969, 4930]	5663	[7557, 7284]	8209	[9235, 8758]
572	[1093, 1094]	3118	[4931, 4932]	5664	[7500, 7558]	8210	[8687, 1879]
573	[1095, 1096]	3119	[4933, 4934]	5665	[3748, 4437]	8211	[5303, 6671]
574	[1097, 1098]	3120	[4935, 4936]	5666	[4099, 67]	8212	[8872, 9267]
575	[1099, 1100]	3121	[4881, 4937]	5667	[7559, 4576]	8213	[1947, 5262]
576	[1101, 1102]	3122	[4938, 2010]	5668	[7312, 7560]	8214	[6734, 1898]
577	[1103, 1104]	3123	[523, 2929]	5669	[7561, 1454]	8215	[5885, 5075]
578	[1105, 993]	3124	[4939, 4940]	5670	[413, 7562]	8216	[2151, 9268]
579	[1106, 1107]	3125	[4941, 2274]	5671	[7022, 1087]	8217	[9269, 6662]

580	[1108, 1109]	3126	[2055, 2466]	5672	[7563, 4467]	8218	[2185, 9145]
581	[1110, 1111]	3127	[1952, 4942]	5673	[7564, 7565]	8219	[4921, 5743]
582	[1112, 1113]	3128	[4943, 4944]	5674	[7402, 3517]	8220	[2088, 8672]
583	[1114, 1115]	3129	[4945, 4946]	5675	[7566, 462]	8221	[9270, 141]
584	[1116, 1117]	3130	[4947, 4948]	5676	[7567, 3643]	8222	[8381, 9069]
585	[1118, 1119]	3131	[4949, 2924]	5677	[1475, 4606]	8223	[8917, 9271]
586	[1120, 1121]	3132	[4950, 4951]	5678	[7568, 3490]	8224	[8826, 3035]
587	[1122, 1123]	3133	[4952, 4953]	5679	[7569, 6792]	8225	[9272, 5927]
588	[1124, 1125]	3134	[4954, 4955]	5680	[1558, 7570]	8226	[9273, 2126]
589	[1126, 1127]	3135	[4956, 4957]	5681	[399, 3994]	8227	[8422, 2897]
590	[1128, 1129]	3136	[4958, 4959]	5682	[1191, 4743]	8228	[6175, 2115]
591	[1130, 1131]	3137	[4960, 4961]	5683	[7571, 6923]	8229	[5387, 6690]
592	[1132, 1133]	3138	[2746, 4962]	5684	[6771, 3789]	8230	[1841, 5461]
593	[1134, 1135]	3139	[4963, 2732]	5685	[7572, 990]	8231	[9258, 8984]
594	[1136, 1137]	3140	[726, 2834]	5686	[7573, 3656]	8232	[5551, 4986]
595	[1138, 1139]	3141	[4964, 4965]	5687	[7574, 7127]	8233	[760, 2649]
596	[1140, 1141]	3142	[4966, 4967]	5688	[7575, 7576]	8234	[9274, 2768]
597	[1142, 1143]	3143	[203, 4968]	5689	[7577, 4431]	8235	[13, 2945]
598	[1144, 1145]	3144	[1778, 4969]	5690	[7102, 4773]	8236	[9275, 2300]
599	[1146, 1147]	3145	[4970, 4971]	5691	[7578, 1677]	8237	[9059, 679]
600	[1148, 1149]	3146	[571, 2925]	5692	[1244, 6863]	8238	[8957, 6561]
601	[1150, 1151]	3147	[2040, 4972]	5693	[1441, 1074]	8239	[8717, 9276]
602	[1152, 256]	3148	[4973, 2846]	5694	[7579, 7433]	8240	[6551, 6448]
603	[1153, 1154]	3149	[2847, 2659]	5695	[7580, 7581]	8241	[709, 2646]
604	[1155, 1156]	3150	[4974, 4975]	5696	[1722, 72]	8242	[5454, 6391]
605	[1157, 1158]	3151	[4976, 4977]	5697	[7582, 6868]	8243	[9277, 9112]
606	[1159, 1160]	3152	[4978, 4979]	5698	[4152, 7039]	8244	[9278, 9199]
607	[1161, 1162]	3153	[4980, 4981]	5699	[7583, 274]	8245	[2959, 6707]
608	[1163, 1164]	3154	[4982, 4983]	5700	[7584, 3168]	8246	[9279, 8816]
609	[1165, 1166]	3155	[4984, 4985]	5701	[7585, 7586]	8247	[9280, 8416]
610	[1167, 1168]	3156	[2738, 4986]	5702	[7587, 3800]	8248	[9281, 9282]
611	[1169, 1170]	3157	[589, 4987]	5703	[7168, 7588]	8249	[6525, 249]
612	[1171, 1172]	3158	[4988, 4989]	5704	[4521, 7589]	8250	[2749, 9283]
613	[1173, 1174]	3159	[4990, 1772]	5705	[1178, 3247]	8251	[5744, 9067]
614	[1175, 1176]	3160	[4991, 4992]	5706	[7590, 7591]	8252	[5721, 8818]
615	[1177, 1178]	3161	[4993, 4994]	5707	[7592, 4664]	8253	[9284, 5136]
616	[1179, 1180]	3162	[1948, 2071]	5708	[7593, 7594]	8254	[2200, 9285]
617	[1181, 1142]	3163	[4995, 4996]	5709	[7595, 3599]	8255	[8864, 9160]
618	[1182, 1183]	3164	[2879, 4894]	5710	[7596, 1294]	8256	[4902, 6529]
619	[1184, 1185]	3165	[4997, 4998]	5711	[7337, 7597]	8257	[6019, 6225]
620	[1186, 1187]	3166	[4999, 2078]	5712	[7232, 4335]	8258	[6570, 2067]
621	[1188, 1189]	3167	[5000, 2919]	5713	[7430, 3336]	8259	[2572, 9204]
622	[1190, 1191]	3168	[5001, 1927]	5714	[3531, 7361]	8260	[586, 8844]
623	[1192, 1193]	3169	[5002, 5003]	5715	[980, 4157]	8261	[9286, 6371]

624	[1194, 1195]	3170	[5004, 5005]	5716	[7598, 281]	8262	[2128, 9287]
625	[1196, 1197]	3171	[5006, 1909]	5717	[4605, 970]	8263	[2051, 9288]
626	[1198, 1199]	3172	[2026, 2671]	5718	[3432, 7599]	8264	[8673, 5044]
627	[1200, 1201]	3173	[5007, 5008]	5719	[7600, 7601]	8265	[5902, 9289]
628	[1202, 1203]	3174	[5009, 5010]	5720	[6806, 7457]	8266	[8610, 2543]
629	[1204, 1205]	3175	[5011, 2565]	5721	[7602, 1318]	8267	[2589, 9281]
630	[1206, 1207]	3176	[780, 5012]	5722	[7603, 1174]	8268	[9290, 8609]
631	[1208, 1187]	3177	[5013, 5014]	5723	[1234, 3354]	8269	[6582, 2536]
632	[1209, 1210]	3178	[2601, 5015]	5724	[7604, 1246]	8270	[513, 9053]
633	[1211, 1212]	3179	[2638, 5016]	5725	[7605, 7606]	8271	[9291, 164]
634	[1213, 1214]	3180	[5017, 5018]	5726	[7437, 4696]	8272	[6427, 652]
635	[1215, 1216]	3181	[2362, 5019]	5727	[7585, 7349]	8273	[6420, 9292]
636	[1217, 317]	3182	[5020, 5021]	5728	[7607, 3472]	8274	[9293, 2691]
637	[1218, 1219]	3183	[5022, 5023]	5729	[1448, 3346]	8275	[9294, 8430]
638	[1220, 1221]	3184	[1933, 5024]	5730	[7399, 7608]	8276	[2123, 731]
639	[1222, 1223]	3185	[5025, 5026]	5731	[7609, 4544]	8277	[9295, 1940]
640	[1224, 1225]	3186	[5027, 500]	5732	[357, 7156]	8278	[6289, 2788]
641	[1226, 1227]	3187	[5028, 5029]	5733	[4557, 3870]	8279	[4902, 9296]
642	[1228, 1229]	3188	[5030, 2728]	5734	[3823, 67]	8280	[2811, 9297]
643	[1230, 1231]	3189	[5031, 5032]	5735	[7610, 1741]	8281	[2734, 744]
644	[1232, 424]	3190	[2424, 5033]	5736	[6935, 1698]	8282	[9298, 5946]
645	[1233, 1234]	3191	[5034, 5035]	5737	[1377, 3404]	8283	[5290, 8539]
646	[1235, 1236]	3192	[5036, 2255]	5738	[7608, 7611]	8284	[6342, 6252]
647	[1237, 1238]	3193	[5037, 5038]	5739	[7612, 6947]	8285	[6295, 775]
648	[1239, 1240]	3194	[1966, 5039]	5740	[271, 7613]	8286	[9299, 8993]
649	[272, 286]	3195	[2448, 2237]	5741	[7614, 1726]	8287	[9300, 9193]
650	[1241, 1242]	3196	[5040, 1952]	5742	[3792, 108]	8288	[9301, 9085]
651	[1243, 1244]	3197	[5041, 5042]	5743	[1691, 291]	8289	[6165, 5161]
652	[1245, 1246]	3198	[5043, 5044]	5744	[7615, 3106]	8290	[6729, 6148]
653	[1247, 1248]	3199	[4851, 5045]	5745	[7616, 1523]	8291	[9137, 6414]
654	[1249, 1250]	3200	[5046, 5047]	5746	[7617, 4671]	8292	[522, 9302]
655	[1251, 1252]	3201	[5048, 2675]	5747	[7618, 7619]	8293	[5981, 6711]
656	[1253, 1254]	3202	[1971, 2296]	5748	[7620, 4513]	8294	[2341, 9303]
657	[1255, 1256]	3203	[855, 5049]	5749	[3891, 7621]	8295	[9304, 886]
658	[1257, 1258]	3204	[5050, 5051]	5750	[7622, 7276]	8296	[5097, 2216]
659	[1259, 1260]	3205	[5052, 5053]	5751	[7623, 7301]	8297	[2374, 9305]
660	[1261, 1262]	3206	[5054, 5055]	5752	[3970, 7624]	8298	[9306, 2844]
661	[1263, 1264]	3207	[5056, 5057]	5753	[7625, 7626]	8299	[2161, 8372]
662	[1265, 1266]	3208	[672, 5058]	5754	[7400, 7627]	8300	[5670, 2674]
663	[1267, 1268]	3209	[5059, 5060]	5755	[4520, 7628]	8301	[9307, 9308]
664	[1269, 1270]	3210	[5061, 2225]	5756	[7629, 394]	8302	[701, 9305]
665	[1271, 1127]	3211	[34, 2342]	5757	[6801, 1316]	8303	[5814, 6718]
666	[1272, 1273]	3212	[730, 2117]	5758	[7578, 65]	8304	[9309, 8743]
667	[1274, 1275]	3213	[5062, 5063]	5759	[7586, 7350]	8305	[2709, 9310]

668	[1276, 1277]	3214	[240, 2233]	5760	[3325, 7630]	8306	[5558, 51]
669	[1278, 1279]	3215	[5064, 5065]	5761	[7631, 7614]	8307	[5717, 8906]
670	[1280, 1281]	3216	[5066, 806]	5762	[7632, 3781]	8308	[5013, 9311]
671	[481, 1282]	3217	[5067, 5068]	5763	[4168, 7633]	8309	[204, 769]
672	[1283, 1284]	3218	[5069, 5070]	5764	[1152, 7634]	8310	[9312, 9313]
673	[334, 1285]	3219	[5071, 5072]	5765	[7635, 7636]	8311	[9314, 6643]
674	[1286, 1287]	3220	[5073, 2656]	5766	[7637, 27]	8312	[2665, 9315]
675	[1288, 1289]	3221	[5074, 5075]	5767	[3569, 4346]	8313	[9316, 7721]
676	[1290, 1210]	3222	[5076, 2242]	5768	[7638, 6972]	8314	[4413, 9317]
677	[1291, 1292]	3223	[5077, 5078]	5769	[7639, 7501]	8315	[9318, 4112]
678	[1293, 1294]	3224	[5079, 5080]	5770	[4235, 3359]	8316	[6887, 8251]
679	[1295, 1296]	3225	[5081, 1797]	5771	[108, 1185]	8317	[7600, 977]
680	[1297, 1298]	3226	[5082, 5083]	5772	[1022, 422]	8318	[8222, 3629]
681	[1299, 1300]	3227	[2021, 1835]	5773	[4596, 1145]	8319	[4083, 6837]
682	[1301, 1272]	3228	[5084, 5085]	5774	[6988, 1107]	8320	[1003, 4649]
683	[1302, 1303]	3229	[5086, 2010]	5775	[4407, 7640]	8321	[9319, 3425]
684	[1304, 1305]	3230	[5087, 746]	5776	[7641, 4282]	8322	[6993, 3828]
685	[1306, 1307]	3231	[5088, 5089]	5777	[7642, 7643]	8323	[9320, 7035]
686	[1308, 1309]	3232	[5090, 240]	5778	[7644, 7099]	8324	[9321, 4704]
687	[1310, 1311]	3233	[5091, 5092]	5779	[7645, 1492]	8325	[9322, 7749]
688	[1312, 1258]	3234	[5093, 926]	5780	[986, 7646]	8326	[3745, 4684]
689	[1313, 1307]	3235	[1850, 5094]	5781	[406, 7647]	8327	[9323, 1647]
690	[1215, 1314]	3236	[5095, 5096]	5782	[7323, 7648]	8328	[3405, 3150]
691	[1315, 1316]	3237	[5097, 5098]	5783	[402, 7165]	8329	[9324, 9325]
692	[1317, 1318]	3238	[5099, 2022]	5784	[7649, 3891]	8330	[8035, 1617]
693	[1319, 1320]	3239	[507, 1759]	5785	[7548, 3242]	8331	[3380, 3257]
694	[1321, 1322]	3240	[573, 5100]	5786	[1060, 1224]	8332	[7729, 7778]
695	[1323, 1324]	3241	[5101, 5102]	5787	[7650, 7651]	8333	[7827, 4127]
696	[1325, 1326]	3242	[5103, 5104]	5788	[7053, 1147]	8334	[9326, 7614]
697	[1327, 1328]	3243	[50, 3015]	5789	[435, 3222]	8335	[4486, 9327]
698	[1329, 1330]	3244	[5105, 4989]	5790	[7159, 434]	8336	[7641, 9328]
699	[1331, 1332]	3245	[136, 3000]	5791	[4484, 1667]	8337	[7799, 1320]
700	[1333, 1334]	3246	[5106, 2313]	5792	[7071, 7652]	8338	[313, 1300]
701	[1335, 1336]	3247	[2164, 5107]	5793	[7653, 3585]	8339	[3346, 265]
702	[1337, 1338]	3248	[2166, 5108]	5794	[3072, 1120]	8340	[9329, 3699]
703	[1339, 1340]	3249	[5109, 5110]	5795	[7384, 3072]	8341	[3911, 7144]
704	[1341, 1342]	3250	[5111, 5112]	5796	[7601, 3998]	8342	[4501, 7842]
705	[1343, 1344]	3251	[2054, 5113]	5797	[1741, 7654]	8343	[6955, 1447]
706	[1345, 1346]	3252	[5114, 5115]	5798	[7107, 7655]	8344	[1387, 1372]
707	[1347, 1348]	3253	[5116, 2642]	5799	[3853, 1286]	8345	[7484, 1589]
708	[285, 1349]	3254	[4822, 5117]	5800	[7656, 1309]	8346	[9330, 439]
709	[1350, 1351]	3255	[5100, 2344]	5801	[3921, 6761]	8347	[4547, 1743]
710	[1352, 1353]	3256	[2958, 1896]	5802	[7657, 7658]	8348	[3333, 9331]
711	[1354, 1355]	3257	[5118, 5119]	5803	[6928, 7659]	8349	[7967, 9332]

712	[1129, 1056]	3258	[5120, 194]	5804	[7660, 3717]	8350	[9333, 106]
713	[102, 446]	3259	[5121, 5122]	5805	[7661, 974]	8351	[9334, 956]
714	[1356, 1357]	3260	[5123, 5124]	5806	[7662, 3299]	8352	[3958, 994]
715	[981, 1358]	3261	[5125, 4939]	5807	[4033, 4363]	8353	[9335, 8075]
716	[1359, 1360]	3262	[5126, 1939]	5808	[484, 3949]	8354	[7595, 4513]
717	[1361, 1362]	3263	[5127, 5128]	5809	[7663, 7664]	8355	[6820, 9336]
718	[1363, 1364]	3264	[5129, 5130]	5810	[7665, 7292]	8356	[9337, 1611]
719	[1365, 1366]	3265	[5131, 5132]	5811	[4218, 4357]	8357	[3309, 3221]
720	[1367, 1368]	3266	[821, 5133]	5812	[7666, 7667]	8358	[9338, 9339]
721	[1369, 1370]	3267	[2391, 5134]	5813	[3910, 426]	8359	[3375, 3518]
722	[1371, 1372]	3268	[5135, 5136]	5814	[4481, 3712]	8360	[9340, 7724]
723	[1373, 1374]	3269	[147, 5137]	5815	[7668, 4812]	8361	[9341, 7398]
724	[446, 1375]	3270	[5138, 5139]	5816	[7669, 4612]	8362	[6848, 7386]
725	[1376, 1377]	3271	[875, 2759]	5817	[7670, 7671]	8363	[7546, 6777]
726	[1142, 1378]	3272	[5140, 5141]	5818	[3455, 4508]	8364	[9342, 9343]
727	[1379, 1380]	3273	[2442, 5142]	5819	[3938, 4013]	8365	[7387, 1082]
728	[1381, 1382]	3274	[5143, 5144]	5820	[1693, 7444]	8366	[9344, 9345]
729	[1383, 1384]	3275	[5145, 5146]	5821	[3375, 7672]	8367	[7140, 3539]
730	[1385, 1386]	3276	[5147, 5148]	5822	[7673, 3313]	8368	[9346, 3969]
731	[1387, 1388]	3277	[5149, 1876]	5823	[7674, 3938]	8369	[7460, 9347]
732	[1389, 464]	3278	[5150, 5151]	5824	[1218, 1693]	8370	[7046, 7591]
733	[1390, 1391]	3279	[5152, 5153]	5825	[3862, 7675]	8371	[9348, 9349]
734	[1392, 1393]	3280	[5154, 5155]	5826	[966, 3410]	8372	[9350, 1205]
735	[1394, 1395]	3281	[5156, 5157]	5827	[7676, 3509]	8373	[3279, 3157]
736	[1396, 1397]	3282	[5158, 5159]	5828	[7677, 7678]	8374	[1742, 4548]
737	[1398, 1399]	3283	[51, 765]	5829	[3143, 7679]	8375	[397, 7295]
738	[1400, 1401]	3284	[5160, 5161]	5830	[4308, 7680]	8376	[4226, 3277]
739	[1402, 1403]	3285	[5162, 5163]	5831	[3058, 7297]	8377	[7169, 8040]
740	[1404, 1405]	3286	[4855, 1823]	5832	[4401, 3485]	8378	[1120, 7084]
741	[1406, 1407]	3287	[5164, 5165]	5833	[4224, 7681]	8379	[4674, 98]
742	[1408, 1409]	3288	[5166, 2908]	5834	[3054, 1708]	8380	[9351, 7896]
743	[1410, 1411]	3289	[5167, 3026]	5835	[7682, 7683]	8381	[4785, 1357]
744	[1412, 1413]	3290	[1956, 2514]	5836	[7684, 4242]	8382	[1035, 8111]
745	[1414, 1415]	3291	[5168, 716]	5837	[7559, 260]	8383	[8260, 390]
746	[1416, 1380]	3292	[5169, 2110]	5838	[7522, 3708]	8384	[3420, 9352]
747	[1417, 1418]	3293	[5170, 5171]	5839	[7685, 423]	8385	[4354, 1418]
748	[1419, 1420]	3294	[4930, 5172]	5840	[3374, 3517]	8386	[6838, 9353]
749	[1421, 1422]	3295	[5173, 5174]	5841	[1051, 347]	8387	[8189, 3753]
750	[1423, 1424]	3296	[5175, 2263]	5842	[7686, 1033]	8388	[3612, 1568]
751	[71, 1425]	3297	[5176, 155]	5843	[4567, 1477]	8389	[9354, 7174]
752	[1426, 1427]	3298	[5177, 5178]	5844	[1719, 1577]	8390	[4090, 285]
753	[1428, 1429]	3299	[5179, 2679]	5845	[3759, 3173]	8391	[9355, 8102]
754	[1430, 1431]	3300	[5180, 5181]	5846	[3979, 7323]	8392	[4681, 8244]
755	[1432, 1433]	3301	[5182, 186]	5847	[7687, 3110]	8393	[4138, 3343]

756	[1434, 1065]	3302	[5183, 1762]	5848	[3707, 7688]	8394	[9356, 1565]
757	[1435, 1436]	3303	[562, 5184]	5849	[7451, 1223]	8395	[9357, 7207]
758	[1437, 1438]	3304	[5185, 2285]	5850	[7689, 7690]	8396	[1180, 9358]
759	[1439, 1191]	3305	[5186, 506]	5851	[7691, 7692]	8397	[9359, 9360]
760	[1269, 1440]	3306	[5187, 4962]	5852	[352, 7659]	8398	[9361, 6959]
761	[1185, 1441]	3307	[5188, 2816]	5853	[7693, 1660]	8399	[1198, 9362]
762	[1442, 1443]	3308	[5189, 5190]	5854	[7694, 7668]	8400	[9363, 7771]
763	[1444, 1445]	3309	[5191, 2673]	5855	[447, 7695]	8401	[4586, 9364]
764	[1069, 1446]	3310	[2464, 578]	5856	[7696, 7697]	8402	[7151, 1738]
765	[1447, 1448]	3311	[5192, 520]	5857	[3571, 7698]	8403	[9365, 9366]
766	[1449, 1301]	3312	[5193, 5145]	5858	[7699, 3971]	8404	[4505, 376]
767	[1450, 1451]	3313	[5194, 2273]	5859	[1519, 1374]	8405	[3437, 9367]
768	[1452, 1453]	3314	[5195, 5196]	5860	[3356, 1047]	8406	[3813, 491]
769	[1454, 1455]	3315	[5197, 5198]	5861	[3909, 3092]	8407	[4650, 4730]
770	[1456, 1457]	3316	[5199, 5200]	5862	[4135, 1670]	8408	[9368, 9363]
771	[1458, 1459]	3317	[2335, 541]	5863	[3362, 7700]	8409	[9369, 6841]
772	[1223, 367]	3318	[820, 2518]	5864	[7701, 7702]	8410	[4801, 9370]
773	[1460, 1461]	3319	[5201, 5202]	5865	[7703, 4274]	8411	[7428, 1593]
774	[1462, 1463]	3320	[5203, 5204]	5866	[7704, 3291]	8412	[4679, 8116]
775	[1464, 1465]	3321	[2758, 5205]	5867	[1143, 387]	8413	[9371, 7974]
776	[1466, 1007]	3322	[5206, 5207]	5868	[7705, 4239]	8414	[9372, 9373]
777	[1467, 1029]	3323	[5208, 5209]	5869	[1348, 90]	8415	[1694, 9374]
778	[403, 1468]	3324	[898, 5210]	5870	[1024, 6995]	8416	[9375, 6859]
779	[1469, 1470]	3325	[5211, 203]	5871	[7247, 7706]	8417	[3440, 7310]
780	[1206, 1471]	3326	[5212, 5207]	5872	[1606, 7707]	8418	[4483, 1666]
781	[1472, 1473]	3327	[5213, 941]	5873	[7551, 1189]	8419	[4134, 4534]
782	[1474, 1475]	3328	[680, 5000]	5874	[4438, 4116]	8420	[9376, 8287]
783	[1476, 1477]	3329	[2788, 5214]	5875	[7708, 101]	8421	[1244, 1196]
784	[1478, 1479]	3330	[5105, 5215]	5876	[4053, 7709]	8422	[3827, 7377]
785	[1480, 1481]	3331	[5216, 2099]	5877	[7710, 7711]	8423	[9377, 4255]
786	[1482, 1483]	3332	[3037, 5217]	5878	[4324, 4766]	8424	[7471, 3514]
787	[1484, 407]	3333	[4964, 2490]	5879	[1023, 7712]	8425	[4745, 8257]
788	[1485, 1486]	3334	[5218, 5219]	5880	[7713, 7714]	8426	[9378, 4329]
789	[1487, 1488]	3335	[501, 5220]	5881	[7715, 1143]	8427	[4645, 9379]
790	[1489, 1490]	3336	[5221, 5222]	5882	[7716, 122]	8428	[3526, 9380]
791	[1491, 1492]	3337	[1839, 5223]	5883	[3617, 7640]	8429	[3308, 6948]
792	[1493, 1494]	3338	[5224, 46]	5884	[7717, 6897]	8430	[9381, 3726]
793	[1495, 1496]	3339	[2316, 5225]	5885	[1321, 3738]	8431	[6766, 959]
794	[1497, 1498]	3340	[5226, 5227]	5886	[7718, 7719]	8432	[9382, 7702]
795	[1499, 1500]	3341	[5228, 40]	5887	[1398, 7720]	8433	[9383, 9384]
796	[1501, 1502]	3342	[5229, 5230]	5888	[7721, 1212]	8434	[3542, 7177]
797	[1503, 1504]	3343	[5231, 843]	5889	[7722, 4107]	8435	[7206, 7378]
798	[1505, 1506]	3344	[5232, 5233]	5890	[7723, 4179]	8436	[7137, 9385]
799	[1507, 88]	3345	[5234, 517]	5891	[7691, 7724]	8437	[9386, 9387]

800	[1508, 1486]	3346	[5235, 5236]	5892	[7665, 7212]	8438	[440, 7482]
801	[1509, 1510]	3347	[5237, 5238]	5893	[7725, 7726]	8439	[3633, 4311]
802	[1299, 314]	3348	[5239, 5240]	5894	[7727, 7662]	8440	[3751, 1106]
803	[1511, 1512]	3349	[5241, 5242]	5895	[7728, 3394]	8441	[4591, 7909]
804	[1513, 1514]	3350	[5243, 5244]	5896	[7729, 7730]	8442	[9388, 9389]
805	[1515, 1516]	3351	[902, 5245]	5897	[7653, 7101]	8443	[7182, 6798]
806	[1517, 1518]	3352	[2433, 2729]	5898	[7217, 1310]	8444	[7670, 9390]
807	[1519, 1520]	3353	[5246, 2749]	5899	[7731, 7732]	8445	[3826, 7906]
808	[444, 1231]	3354	[5247, 5248]	5900	[7733, 7734]	8446	[7139, 1744]
809	[1521, 1522]	3355	[2591, 5249]	5901	[4375, 1061]	8447	[7764, 7308]
810	[1523, 1524]	3356	[2982, 5250]	5902	[4769, 7735]	8448	[1155, 3520]
811	[1493, 1525]	3357	[5251, 5252]	5903	[4573, 4521]	8449	[9366, 7906]
812	[1526, 1527]	3358	[5253, 5254]	5904	[79, 7633]	8450	[9391, 7255]
813	[1528, 1529]	3359	[5255, 529]	5905	[4615, 3510]	8451	[1157, 3887]
814	[1530, 1531]	3360	[5256, 5257]	5906	[7736, 1183]	8452	[3818, 4114]
815	[1532, 1533]	3361	[5258, 1939]	5907	[7113, 1674]	8453	[9392, 9393]
816	[1503, 1534]	3362	[2895, 2922]	5908	[7737, 6830]	8454	[6942, 7734]
817	[1535, 1536]	3363	[5259, 5260]	5909	[7738, 7739]	8455	[9394, 4750]
818	[330, 1537]	3364	[5261, 832]	5910	[6850, 4454]	8456	[1717, 8285]
819	[1538, 1539]	3365	[5262, 2071]	5911	[7740, 7741]	8457	[9395, 1508]
820	[1540, 1475]	3366	[5263, 2530]	5912	[3717, 7742]	8458	[4169, 4302]
821	[1541, 322]	3367	[5264, 831]	5913	[7743, 7744]	8459	[9396, 6834]
822	[1542, 1543]	3368	[2761, 2814]	5914	[1251, 6869]	8460	[3587, 9397]
823	[1544, 1545]	3369	[2524, 5265]	5915	[7745, 4143]	8461	[7407, 7817]
824	[1546, 1547]	3370	[5266, 5267]	5916	[3249, 7746]	8462	[1383, 8268]
825	[1548, 1549]	3371	[2527, 2893]	5917	[7133, 4168]	8463	[8224, 9398]
826	[1550, 1262]	3372	[5268, 5269]	5918	[7747, 3224]	8464	[7616, 9399]
827	[1551, 1470]	3373	[5270, 695]	5919	[6855, 3616]	8465	[9400, 4211]
828	[1552, 1553]	3374	[2466, 5271]	5920	[7748, 7749]	8466	[9401, 9402]
829	[1554, 1555]	3375	[138, 633]	5921	[7750, 7667]	8467	[8110, 7285]
830	[1556, 1557]	3376	[56, 5272]	5922	[7751, 3533]	8468	[6827, 9403]
831	[1558, 1559]	3377	[1802, 2592]	5923	[4365, 7752]	8469	[9404, 9405]
832	[1560, 1561]	3378	[4973, 4937]	5924	[7753, 1639]	8470	[9406, 4482]
833	[1562, 1563]	3379	[5273, 2028]	5925	[7754, 7755]	8471	[9407, 9408]
834	[1564, 1565]	3380	[5274, 818]	5926	[7467, 7756]	8472	[1645, 7459]
835	[1566, 1567]	3381	[5275, 5276]	5927	[1749, 4100]	8473	[9409, 22]
836	[1568, 1569]	3382	[5277, 519]	5928	[7757, 7758]	8474	[9410, 9411]
837	[1570, 1571]	3383	[5225, 5278]	5929	[7759, 7760]	8475	[9412, 7243]
838	[1572, 1573]	3384	[2649, 2552]	5930	[6895, 3459]	8476	[9413, 4404]
839	[984, 1574]	3385	[5279, 5280]	5931	[3318, 4261]	8477	[9414, 270]
840	[1575, 1576]	3386	[5281, 5282]	5932	[3646, 3806]	8478	[1710, 1577]
841	[1577, 1578]	3387	[5283, 5284]	5933	[7761, 7762]	8479	[9415, 1315]
842	[1579, 1580]	3388	[5285, 5286]	5934	[7763, 7348]	8480	[4556, 79]
843	[456, 1581]	3389	[5287, 2621]	5935	[337, 3978]	8481	[3841, 7318]

844	[959, 1296]	3390	[2209, 5288]	5936	[7764, 7765]	8482	[6948, 3221]
845	[1582, 1249]	3391	[5289, 5290]	5937	[3256, 3749]	8483	[9368, 7770]
846	[1319, 1583]	3392	[5291, 5010]	5938	[7766, 1077]	8484	[9416, 7798]
847	[1584, 1585]	3393	[5248, 5292]	5939	[7767, 7171]	8485	[8030, 3446]
848	[1586, 1587]	3394	[5293, 5294]	5940	[7768, 7769]	8486	[9417, 9418]
849	[1588, 1589]	3395	[2664, 639]	5941	[3221, 436]	8487	[9419, 9420]
850	[1590, 1591]	3396	[5295, 641]	5942	[7770, 7771]	8488	[9421, 4377]
851	[1592, 1593]	3397	[2618, 5296]	5943	[7772, 4806]	8489	[9422, 4642]
852	[1594, 1595]	3398	[5297, 2594]	5944	[7773, 266]	8490	[976, 7601]
853	[1596, 1597]	3399	[5298, 2742]	5945	[4618, 7774]	8491	[4234, 7335]
854	[101, 1598]	3400	[5299, 5300]	5946	[7775, 7776]	8492	[3062, 9423]
855	[1599, 1600]	3401	[5301, 5302]	5947	[7777, 278]	8493	[9424, 6809]
856	[1601, 1602]	3402	[5303, 5304]	5948	[3181, 7778]	8494	[9425, 9426]
857	[1603, 1604]	3403	[5305, 787]	5949	[7779, 1696]	8495	[9427, 9428]
858	[466, 1605]	3404	[5306, 5307]	5950	[1692, 1219]	8496	[9429, 7330]
859	[1606, 1607]	3405	[5308, 2193]	5951	[7780, 4197]	8497	[8195, 7056]
860	[1608, 1609]	3406	[5309, 2319]	5952	[7073, 4760]	8498	[1099, 7493]
861	[398, 1610]	3407	[5310, 5311]	5953	[7463, 1481]	8499	[4279, 4161]
862	[1611, 1612]	3408	[5312, 5144]	5954	[6822, 7781]	8500	[9430, 487]
863	[1613, 1614]	3409	[5313, 5219]	5955	[1414, 120]	8501	[1080, 3187]
864	[1615, 441]	3410	[785, 794]	5956	[7129, 7782]	8502	[9377, 1113]
865	[1616, 1617]	3411	[1975, 5314]	5957	[4194, 4011]	8503	[9431, 3052]
866	[104, 1618]	3412	[5241, 1915]	5958	[7783, 7784]	8504	[9432, 4542]
867	[1619, 1620]	3413	[5315, 5316]	5959	[1100, 7494]	8505	[6808, 6858]
868	[1621, 1622]	3414	[5317, 2943]	5960	[7785, 3490]	8506	[9330, 7300]
869	[1623, 1624]	3415	[839, 5318]	5961	[1344, 4109]	8507	[9433, 9434]
870	[1625, 1626]	3416	[5319, 3018]	5962	[7786, 7787]	8508	[7326, 4388]
871	[1627, 1628]	3417	[5320, 2769]	5963	[3198, 3464]	8509	[3047, 7377]
872	[872, 872]	3418	[5054, 5321]	5964	[4783, 7788]	8510	[9435, 7719]
873	[1629, 1630]	3419	[2441, 5322]	5965	[7789, 7790]	8511	[3634, 7664]
874	[1631, 1632]	3420	[5323, 5324]	5966	[1126, 4393]	8512	[9436, 7484]
875	[1633, 1634]	3421	[2850, 5325]	5967	[7791, 7514]	8513	[9437, 6792]
876	[1561, 1465]	3422	[5326, 5327]	5968	[7792, 1116]	8514	[9438, 6847]
877	[1635, 1636]	3423	[5240, 5328]	5969	[1579, 7752]	8515	[7631, 7479]
878	[1637, 1124]	3424	[668, 5329]	5970	[7793, 1665]	8516	[9439, 3487]
879	[1638, 1639]	3425	[230, 2146]	5971	[3629, 7794]	8517	[9440, 9426]
880	[1640, 1641]	3426	[5330, 4996]	5972	[3185, 6794]	8518	[8140, 1389]
881	[1642, 1643]	3427	[5331, 921]	5973	[3507, 7795]	8519	[9441, 7697]
882	[1644, 1645]	3428	[5332, 5333]	5974	[6985, 7796]	8520	[9442, 9374]
883	[1646, 1647]	3429	[5334, 5335]	5975	[7797, 7798]	8521	[4443, 1406]
884	[1648, 1649]	3430	[5336, 5337]	5976	[1597, 7289]	8522	[262, 1654]
885	[1650, 1651]	3431	[5338, 238]	5977	[3480, 7166]	8523	[9443, 8012]
886	[1652, 1653]	3432	[1876, 4914]	5978	[7799, 1583]	8524	[4627, 1190]
887	[1654, 1655]	3433	[5339, 577]	5979	[7800, 7770]	8525	[9444, 9383]

888	[1656, 1657]	3434	[4893, 5192]	5980	[7801, 3765]	8526	[6929, 3326]
889	[1658, 1659]	3435	[5340, 5341]	5981	[1535, 3526]	8527	[279, 9445]
890	[1660, 1661]	3436	[5342, 5343]	5982	[7802, 3289]	8528	[9446, 3313]
891	[1662, 1663]	3437	[5344, 5345]	5983	[7803, 7804]	8529	[1655, 4558]
892	[1664, 1665]	3438	[5346, 5347]	5984	[7805, 7290]	8530	[7298, 4324]
893	[1666, 1667]	3439	[5348, 5200]	5985	[1647, 7806]	8531	[9447, 4656]
894	[1668, 1669]	3440	[5349, 512]	5986	[7674, 4012]	8532	[3290, 9448]
895	[1670, 1671]	3441	[2981, 5350]	5987	[1019, 7807]	8533	[1515, 7850]
896	[1672, 1311]	3442	[5351, 2668]	5988	[4693, 3924]	8534	[9449, 1100]
897	[1673, 1674]	3443	[5352, 2511]	5989	[3933, 7808]	8535	[9450, 7005]
898	[1675, 1676]	3444	[5353, 2713]	5990	[7809, 3856]	8536	[9322, 8236]
899	[1677, 1678]	3445	[5354, 5355]	5991	[1438, 7810]	8537	[8049, 4719]
900	[1679, 1680]	3446	[5356, 4834]	5992	[4702, 7811]	8538	[9451, 9452]
901	[1681, 1682]	3447	[5357, 2775]	5993	[7812, 7813]	8539	[6766, 1295]
902	[1683, 1684]	3448	[5358, 5359]	5994	[7814, 7815]	8540	[8210, 3955]
903	[1685, 1686]	3449	[2583, 5360]	5995	[1611, 4389]	8541	[9453, 8047]
904	[1687, 1688]	3450	[5361, 2666]	5996	[7816, 7741]	8542	[9382, 8192]
905	[1689, 1690]	3451	[2817, 5362]	5997	[7817, 7818]	8543	[3966, 3373]
906	[1691, 345]	3452	[589, 5363]	5998	[7819, 25]	8544	[7676, 4676]
907	[1692, 1693]	3453	[221, 5364]	5999	[7820, 3158]	8545	[268, 6832]
908	[1694, 1695]	3454	[5365, 5366]	6000	[7821, 3586]	8546	[4098, 3278]
909	[1696, 1697]	3455	[5367, 1944]	6001	[3862, 3135]	8547	[9454, 7181]
910	[1226, 1698]	3456	[1857, 5368]	6002	[1720, 1578]	8548	[1379, 7857]
911	[1147, 1699]	3457	[5369, 5370]	6003	[7661, 7822]	8549	[9455, 9456]
912	[1700, 1701]	3458	[5371, 5372]	6004	[7823, 3387]	8550	[9457, 7777]
913	[1702, 1703]	3459	[5373, 515]	6005	[7516, 4554]	8551	[9458, 9459]
914	[1462, 1704]	3460	[5374, 2999]	6006	[7824, 7825]	8552	[3950, 1702]
915	[1705, 1706]	3461	[5375, 5376]	6007	[3601, 4691]	8553	[9351, 279]
916	[1707, 1708]	3462	[5377, 5378]	6008	[7826, 3783]	8554	[7482, 4122]
917	[1709, 1710]	3463	[5379, 5380]	6009	[7827, 4177]	8555	[4329, 4381]
918	[1711, 1712]	3464	[5381, 5382]	6010	[7828, 4776]	8556	[8156, 9460]
919	[1713, 1714]	3465	[2579, 5269]	6011	[3418, 7829]	8557	[3980, 7648]
920	[1715, 1716]	3466	[5383, 2305]	6012	[1642, 430]	8558	[872, 7030]
921	[1717, 1718]	3467	[5384, 5385]	6013	[7830, 6919]	8559	[4799, 112]
922	[1719, 1720]	3468	[5386, 5387]	6014	[7831, 7832]	8560	[9461, 1279]
923	[1721, 1712]	3469	[2102, 5388]	6015	[7141, 20]	8561	[1454, 4175]
924	[1722, 1425]	3470	[5389, 50]	6016	[7833, 7834]	8562	[4293, 7153]
925	[1723, 1724]	3471	[1864, 2692]	6017	[7833, 7835]	8563	[9462, 1051]
926	[1261, 1725]	3472	[5390, 5391]	6018	[4141, 3772]	8564	[3282, 8288]
927	[1726, 1727]	3473	[5392, 717]	6019	[7836, 1028]	8565	[9463, 3209]
928	[1386, 1728]	3474	[1819, 5393]	6020	[7837, 7838]	8566	[9464, 9465]
929	[1729, 1730]	3475	[5394, 2159]	6021	[7839, 3166]	8567	[4207, 3428]
930	[1731, 1732]	3476	[1984, 5395]	6022	[1556, 7840]	8568	[3330, 7159]
931	[1733, 1734]	3477	[5396, 192]	6023	[3686, 4411]	8569	[4755, 7844]

932	[1735, 1736]	3478	[5397, 5398]	6024	[3682, 3887]	8570	[4061, 7251]
933	[1737, 1738]	3479	[5399, 5400]	6025	[3549, 7841]	8571	[9466, 7630]
934	[1338, 1739]	3480	[2280, 2362]	6026	[6763, 3249]	8572	[1678, 4089]
935	[1740, 1741]	3481	[5401, 5402]	6027	[1489, 7842]	8573	[4222, 9467]
936	[1742, 1743]	3482	[5403, 5404]	6028	[3406, 7843]	8574	[393, 9468]
937	[1602, 1744]	3483	[5405, 5406]	6029	[4724, 7844]	8575	[9469, 3774]
938	[1745, 1746]	3484	[5407, 2903]	6030	[951, 7845]	8576	[9470, 481]
939	[1747, 1748]	3485	[5408, 5409]	6031	[1178, 30]	8577	[3043, 3379]
940	[1749, 1750]	3486	[2813, 2762]	6032	[3171, 7400]	8578	[7301, 3776]
941	[1751, 400]	3487	[5410, 5411]	6033	[7846, 7419]	8579	[9471, 3834]
942	[1752, 1753]	3488	[906, 5412]	6034	[7847, 7848]	8580	[364, 9472]
943	[1754, 1755]	3489	[5413, 2058]	6035	[4665, 4212]	8581	[1452, 3661]
944	[1756, 1757]	3490	[5414, 5362]	6036	[3214, 7849]	8582	[7336, 3895]
945	[1758, 1759]	3491	[5415, 5416]	6037	[7054, 1392]	8583	[9473, 3166]
946	[493, 1760]	3492	[5417, 1834]	6038	[4447, 7850]	8584	[9474, 4374]
947	[1761, 1762]	3493	[5418, 812]	6039	[7851, 1362]	8585	[7737, 4514]
948	[1763, 1764]	3494	[1809, 686]	6040	[7852, 7848]	8586	[7722, 1533]
949	[544, 1765]	3495	[5419, 5276]	6041	[1190, 452]	8587	[4379, 4041]
950	[1766, 518]	3496	[5420, 2019]	6042	[7481, 3348]	8588	[1258, 7465]
951	[1767, 698]	3497	[5181, 5421]	6043	[7853, 1684]	8589	[1664, 8122]
952	[1768, 1769]	3498	[5422, 498]	6044	[7854, 4742]	8590	[9475, 4575]
953	[1770, 1771]	3499	[5423, 5424]	6045	[7855, 3662]	8591	[3471, 9476]
954	[1772, 1773]	3500	[5425, 5049]	6046	[3721, 1303]	8592	[9477, 4795]
955	[1774, 1775]	3501	[2989, 5426]	6047	[1182, 7856]	8593	[9478, 3382]
956	[1776, 1777]	3502	[5427, 5428]	6048	[1438, 3677]	8594	[9479, 7772]
957	[1778, 1779]	3503	[559, 5429]	6049	[350, 6945]	8595	[3296, 4617]
958	[1780, 1781]	3504	[5430, 5431]	6050	[4819, 96]	8596	[4687, 9480]
959	[1782, 1783]	3505	[2724, 5432]	6051	[3224, 3871]	8597	[3885, 9481]
960	[1784, 1785]	3506	[2796, 5433]	6052	[7090, 1137]	8598	[9482, 9483]
961	[1786, 1787]	3507	[5434, 5435]	6053	[1290, 4176]	8599	[9484, 7661]
962	[1788, 1789]	3508	[800, 5436]	6054	[1416, 7857]	8600	[4028, 4221]
963	[1790, 1791]	3509	[4899, 5437]	6055	[7858, 7811]	8601	[9485, 8063]
964	[1792, 1793]	3510	[5438, 5439]	6056	[7859, 7762]	8602	[9486, 4648]
965	[1794, 785]	3511	[2851, 5440]	6057	[7245, 3780]	8603	[1406, 9336]
966	[1795, 1796]	3512	[5441, 5149]	6058	[7860, 7813]	8604	[9487, 6882]
967	[1797, 1798]	3513	[5442, 1790]	6059	[7550, 7861]	8605	[9488, 4762]
968	[1799, 1800]	3514	[5443, 5444]	6060	[7862, 7209]	8606	[994, 9489]
969	[1801, 1802]	3515	[5445, 3040]	6061	[7863, 4591]	8607	[7880, 1702]
970	[1803, 1804]	3516	[5446, 4940]	6062	[4181, 3628]	8608	[387, 9490]
971	[1805, 1806]	3517	[5447, 5448]	6063	[1746, 4814]	8609	[9367, 3445]
972	[1807, 1808]	3518	[5271, 5449]	6064	[3874, 7864]	8610	[8303, 9491]
973	[1809, 1810]	3519	[5026, 2178]	6065	[7865, 7866]	8611	[3856, 9492]
974	[1811, 1812]	3520	[4975, 2983]	6066	[490, 3145]	8612	[9493, 4062]
975	[1813, 1814]	3521	[2385, 2494]	6067	[3527, 7867]	8613	[4465, 8166]

976	[1815, 1816]	3522	[130, 5450]	6068	[7868, 3315]	8614	[3128, 6812]
977	[1817, 1818]	3523	[5451, 5452]	6069	[263, 1655]	8615	[7865, 4384]
978	[1819, 1820]	3524	[5453, 2723]	6070	[7765, 4549]	8616	[1734, 9494]
979	[1821, 1822]	3525	[5454, 5455]	6071	[7869, 7870]	8617	[4335, 9495]
980	[1774, 1823]	3526	[5139, 2416]	6072	[7871, 7872]	8618	[9496, 7146]
981	[1824, 1825]	3527	[5456, 5457]	6073	[3311, 3468]	8619	[9497, 9498]
982	[1826, 1827]	3528	[5458, 2641]	6074	[4656, 4699]	8620	[9499, 1150]
983	[1828, 1829]	3529	[2440, 1879]	6075	[4240, 7436]	8621	[9500, 3131]
984	[1830, 1831]	3530	[5459, 5460]	6076	[1276, 7873]	8622	[9501, 4705]
985	[1832, 808]	3531	[5091, 5387]	6077	[7874, 4779]	8623	[4189, 7352]
986	[655, 1833]	3532	[5461, 5462]	6078	[1331, 7875]	8624	[8264, 3197]
987	[1834, 1835]	3533	[522, 5463]	6079	[3166, 7562]	8625	[9502, 6782]
988	[1836, 1837]	3534	[5285, 1995]	6080	[7876, 7877]	8626	[7901, 9503]
989	[1838, 1839]	3535	[5464, 525]	6081	[7878, 4768]	8627	[6805, 3612]
990	[1840, 1841]	3536	[5125, 5446]	6082	[4440, 1697]	8628	[9504, 4256]
991	[1842, 1843]	3537	[5465, 5466]	6083	[6768, 3409]	8629	[443, 3203]
992	[1844, 509]	3538	[5467, 5468]	6084	[7879, 6961]	8630	[3817, 4459]
993	[46, 1845]	3539	[5469, 2345]	6085	[7506, 7880]	8631	[7894, 3654]
994	[1846, 1847]	3540	[5470, 5471]	6086	[7881, 7576]	8632	[3211, 4026]
995	[1848, 1849]	3541	[5472, 5393]	6087	[7882, 7883]	8633	[9505, 9506]
996	[1850, 1851]	3542	[2615, 2585]	6088	[7884, 4049]	8634	[348, 9507]
997	[1852, 42]	3543	[5473, 5474]	6089	[3964, 7885]	8635	[9365, 3826]
998	[1853, 1854]	3544	[5475, 5476]	6090	[4494, 24]	8636	[8106, 7588]
999	[1855, 1856]	3545	[5477, 5335]	6091	[4258, 4807]	8637	[9337, 4388]
1000	[1857, 714]	3546	[2758, 5478]	6092	[7886, 1072]	8638	[9508, 9509]
1001	[1858, 1772]	3547	[5479, 2474]	6093	[1591, 7788]	8639	[4454, 9323]
1002	[1859, 1860]	3548	[745, 5480]	6094	[366, 7863]	8640	[8299, 4207]
1003	[1861, 1862]	3549	[5481, 2142]	6095	[7887, 7888]	8641	[7242, 3163]
1004	[1863, 1864]	3550	[5482, 5483]	6096	[7889, 3155]	8642	[998, 7976]
1005	[1865, 1866]	3551	[1898, 5484]	6097	[7890, 7891]	8643	[7544, 1146]
1006	[1867, 1868]	3552	[5485, 694]	6098	[7892, 4332]	8644	[9410, 9510]
1007	[1869, 1870]	3553	[5486, 155]	6099	[7893, 3310]	8645	[9511, 1497]
1008	[1871, 1872]	3554	[5039, 4882]	6100	[6825, 4550]	8646	[4490, 9512]
1009	[1873, 1874]	3555	[5098, 5487]	6101	[4267, 1086]	8647	[3319, 9513]
1010	[1875, 1876]	3556	[2574, 5296]	6102	[7727, 3298]	8648	[9514, 7118]
1011	[1877, 1878]	3557	[5488, 5489]	6103	[4747, 1471]	8649	[1338, 9515]
1012	[1879, 1880]	3558	[665, 2334]	6104	[7894, 272]	8650	[1340, 3352]
1013	[856, 1881]	3559	[2256, 1938]	6105	[3811, 4015]	8651	[9516, 9434]
1014	[1882, 1883]	3560	[5490, 5491]	6106	[7895, 4238]	8652	[9517, 9518]
1015	[182, 1884]	3561	[2950, 5492]	6107	[4580, 4661]	8653	[4012, 3939]
1016	[1885, 1886]	3562	[5493, 5494]	6108	[278, 7896]	8654	[9511, 7982]
1017	[1887, 901]	3563	[5495, 5496]	6109	[7897, 983]	8655	[9519, 9520]
1018	[1888, 1889]	3564	[2700, 5497]	6110	[3534, 7898]	8656	[9521, 9522]
1019	[1890, 1891]	3565	[5498, 5360]	6111	[7899, 7088]	8657	[1017, 7845]

1020	[1892, 1893]	3566	[5499, 5500]	6112	[7900, 6878]	8658	[7926, 316]
1021	[1812, 1894]	3567	[5501, 5502]	6113	[1629, 4052]	8659	[9523, 6913]
1022	[1895, 1896]	3568	[48, 2657]	6114	[7901, 4247]	8660	[7388, 9524]
1023	[608, 168]	3569	[5503, 2620]	6115	[7902, 1384]	8661	[7234, 3884]
1024	[1897, 1898]	3570	[5504, 5148]	6116	[7903, 7904]	8662	[9406, 3396]
1025	[1899, 1900]	3571	[781, 5505]	6117	[7157, 7905]	8663	[9525, 4118]
1026	[1901, 1902]	3572	[2616, 5506]	6118	[1035, 3191]	8664	[3784, 8201]
1027	[1903, 716]	3573	[2720, 5000]	6119	[7906, 7864]	8665	[9526, 7952]
1028	[1904, 1905]	3574	[5507, 5508]	6120	[7907, 7908]	8666	[8103, 9527]
1029	[1906, 1907]	3575	[5509, 5510]	6121	[1367, 6824]	8667	[7574, 3226]
1030	[1908, 1909]	3576	[4958, 5511]	6122	[4341, 7909]	8668	[373, 4339]
1031	[1910, 1911]	3577	[5512, 2765]	6123	[4073, 7910]	8669	[9528, 9390]
1032	[1912, 1913]	3578	[5513, 5514]	6124	[3930, 7911]	8670	[1151, 4733]
1033	[1914, 1915]	3579	[2378, 5515]	6125	[7912, 7913]	8671	[6974, 8184]
1034	[1916, 1917]	3580	[869, 5516]	6126	[7914, 3686]	8672	[1482, 4708]
1035	[1918, 1919]	3581	[5517, 1766]	6127	[973, 7822]	8673	[8073, 7606]
1036	[167, 609]	3582	[5518, 2140]	6128	[7915, 3567]	8674	[1273, 7193]
1037	[1920, 1921]	3583	[5519, 5520]	6129	[7916, 7917]	8675	[1470, 1171]
1038	[1922, 1923]	3584	[778, 2512]	6130	[7918, 6954]	8676	[8107, 7860]
1039	[1924, 1925]	3585	[5521, 5391]	6131	[7136, 3933]	8677	[4077, 9529]
1040	[1926, 1927]	3586	[1759, 1955]	6132	[7919, 1040]	8678	[3917, 9530]
1041	[1928, 1929]	3587	[5040, 5522]	6133	[7920, 1150]	8679	[9355, 7453]
1042	[1930, 1931]	3588	[5523, 5524]	6134	[7921, 3264]	8680	[1200, 1338]
1043	[1932, 1933]	3589	[5525, 5526]	6135	[7922, 3890]	8681	[9531, 9532]
1044	[1934, 1935]	3590	[5527, 5528]	6136	[7923, 7924]	8682	[8164, 4361]
1045	[1936, 1937]	3591	[5529, 5530]	6137	[7925, 7926]	8683	[9533, 4467]
1046	[1873, 1938]	3592	[5531, 2708]	6138	[4023, 7742]	8684	[4463, 359]
1047	[1939, 1940]	3593	[1926, 2822]	6139	[26, 7412]	8685	[9534, 3268]
1048	[1941, 1942]	3594	[5532, 5533]	6140	[7109, 7927]	8686	[9383, 1487]
1049	[1943, 536]	3595	[638, 5534]	6141	[7928, 1063]	8687	[8072, 3253]
1050	[1944, 148]	3596	[5535, 5536]	6142	[7929, 7777]	8688	[7052, 4514]
1051	[1945, 1946]	3597	[5537, 5538]	6143	[7930, 1499]	8689	[1589, 3251]
1052	[1947, 1948]	3598	[642, 5539]	6144	[7931, 1164]	8690	[9535, 9536]
1053	[1949, 1950]	3599	[5540, 5541]	6145	[3176, 3451]	8691	[4398, 3254]
1054	[1951, 1952]	3600	[2245, 5542]	6146	[4048, 7932]	8692	[9537, 8147]
1055	[1953, 504]	3601	[730, 2575]	6147	[7933, 7934]	8693	[6952, 8237]
1056	[14, 1954]	3602	[5543, 2833]	6148	[7935, 7936]	8694	[4671, 82]
1057	[508, 1955]	3603	[2611, 1997]	6149	[4108, 7937]	8695	[9431, 9538]
1058	[1956, 1957]	3604	[5544, 185]	6150	[3563, 1506]	8696	[9539, 3210]
1059	[1958, 1959]	3605	[49, 5545]	6151	[6948, 435]	8697	[372, 4682]
1060	[1960, 1961]	3606	[5546, 5547]	6152	[7938, 4520]	8698	[7295, 1610]
1061	[1962, 1963]	3607	[2202, 5402]	6153	[7939, 1534]	8699	[9540, 7760]
1062	[1964, 1965]	3608	[5548, 798]	6154	[7940, 7941]	8700	[9541, 9542]
1063	[1966, 642]	3609	[5549, 5550]	6155	[1095, 7942]	8701	[9543, 7718]

1064	[1967, 1968]	3610	[5551, 5552]	6156	[4095, 7066]	8702	[9544, 6771]
1065	[1969, 1970]	3611	[5553, 5554]	6157	[7943, 1447]	8703	[75, 9545]
1066	[1971, 1972]	3612	[5555, 599]	6158	[7944, 7945]	8704	[7172, 9546]
1067	[1973, 1974]	3613	[5556, 2602]	6159	[4122, 7905]	8705	[9547, 7342]
1068	[1975, 1976]	3614	[5557, 5558]	6160	[7946, 7708]	8706	[4339, 7218]
1069	[1864, 1977]	3615	[5559, 4987]	6161	[7785, 7267]	8707	[7858, 4703]
1070	[1978, 1979]	3616	[2647, 5560]	6162	[7947, 4081]	8708	[1685, 360]
1071	[1980, 1981]	3617	[494, 5561]	6163	[3782, 7948]	8709	[368, 1669]
1072	[1982, 1983]	3618	[5562, 772]	6164	[7095, 102]	8710	[9548, 3117]
1073	[1984, 1985]	3619	[781, 5563]	6165	[3238, 3646]	8711	[1140, 1424]
1074	[1986, 1987]	3620	[5564, 3011]	6166	[7949, 7389]	8712	[4631, 9481]
1075	[1988, 591]	3621	[5565, 5566]	6167	[3889, 1171]	8713	[7711, 7303]
1076	[1989, 1990]	3622	[5567, 5568]	6168	[3907, 3803]	8714	[8032, 7152]
1077	[1991, 527]	3623	[5569, 5570]	6169	[6883, 7375]	8715	[9549, 7708]
1078	[1992, 1993]	3624	[5571, 178]	6170	[7950, 4066]	8716	[4764, 3548]
1079	[1994, 1995]	3625	[5572, 2241]	6171	[7733, 6943]	8717	[8215, 109]
1080	[1996, 239]	3626	[5573, 841]	6172	[3556, 4567]	8718	[9550, 4337]
1081	[1997, 1798]	3627	[5574, 552]	6173	[7951, 7952]	8719	[4751, 8035]
1082	[1998, 1999]	3628	[1810, 687]	6174	[7847, 7953]	8720	[3942, 7288]
1083	[2000, 2001]	3629	[5575, 5254]	6175	[4210, 7954]	8721	[4532, 7024]
1084	[2002, 2003]	3630	[5576, 5577]	6176	[7955, 3666]	8722	[8119, 6914]
1085	[2004, 2005]	3631	[5578, 5579]	6177	[7956, 3205]	8723	[9551, 9552]
1086	[2006, 2007]	3632	[2858, 1944]	6178	[4119, 292]	8724	[7568, 7267]
1087	[2008, 2009]	3633	[5234, 1766]	6179	[7957, 110]	8725	[9553, 3220]
1088	[2010, 2011]	3634	[5580, 5581]	6180	[7958, 7959]	8726	[4, 9554]
1089	[2012, 2013]	3635	[5582, 5583]	6181	[7960, 7961]	8727	[6885, 3989]
1090	[2014, 2015]	3636	[2473, 5584]	6182	[3206, 4059]	8728	[7055, 8196]
1091	[2016, 2017]	3637	[5585, 5586]	6183	[7962, 1190]	8729	[3705, 9555]
1092	[2018, 2019]	3638	[5587, 5588]	6184	[7963, 7964]	8730	[9556, 415]
1093	[2020, 2021]	3639	[5589, 849]	6185	[3793, 7965]	8731	[1472, 7861]
1094	[226, 2022]	3640	[5590, 5591]	6186	[7966, 7776]	8732	[7459, 454]
1095	[2023, 2024]	3641	[2330, 5592]	6187	[7967, 3301]	8733	[9400, 7954]
1096	[2025, 2026]	3642	[747, 5593]	6188	[4623, 7968]	8734	[9557, 1154]
1097	[2027, 2028]	3643	[5594, 5595]	6189	[4717, 7934]	8735	[9558, 7136]
1098	[2029, 2030]	3644	[5596, 3009]	6190	[3713, 1432]	8736	[270, 9379]
1099	[2031, 1870]	3645	[5597, 5598]	6191	[7969, 7970]	8737	[9559, 3864]
1100	[242, 917]	3646	[5599, 891]	6192	[1622, 7570]	8738	[8008, 1668]
1101	[497, 2032]	3647	[5600, 5601]	6193	[7971, 7972]	8739	[1590, 4783]
1102	[2033, 2034]	3648	[5602, 5603]	6194	[7973, 7974]	8740	[9560, 1732]
1103	[39, 2035]	3649	[2086, 2085]	6195	[99, 1429]	8741	[6885, 9561]
1104	[2036, 2037]	3650	[5604, 5605]	6196	[7975, 7221]	8742	[9472, 8241]
1105	[2038, 2039]	3651	[5606, 5607]	6197	[3804, 7976]	8743	[4759, 7074]
1106	[2040, 2041]	3652	[620, 5608]	6198	[7605, 7977]	8744	[7903, 9428]
1107	[2042, 2043]	3653	[5609, 2639]	6199	[3468, 7978]	8745	[9562, 451]

1108	[2044, 2045]	3654	[5610, 5611]	6200	[7979, 7980]	8746	[282, 4608]
1109	[2046, 493]	3655	[5612, 5613]	6201	[4503, 7981]	8747	[9563, 7225]
1110	[2047, 2048]	3656	[5614, 5615]	6202	[3111, 7982]	8748	[392, 4470]
1111	[2049, 2050]	3657	[5616, 2037]	6203	[7983, 7984]	8749	[4815, 309]
1112	[2051, 2052]	3658	[2318, 5617]	6204	[7985, 3482]	8750	[6944, 351]
1113	[2053, 896]	3659	[5618, 5619]	6205	[7986, 4094]	8751	[9564, 9565]
1114	[2054, 2055]	3660	[2482, 777]	6206	[7987, 7489]	8752	[9566, 1405]
1115	[2056, 2057]	3661	[5620, 2723]	6207	[7988, 1605]	8753	[3122, 1087]
1116	[2058, 801]	3662	[2607, 5508]	6208	[3061, 3704]	8754	[4331, 9567]
1117	[2059, 2060]	3663	[2569, 2244]	6209	[7989, 7990]	8755	[9568, 9552]
1118	[2061, 2062]	3664	[5621, 2109]	6210	[7537, 6799]	8756	[9569, 7718]
1119	[2063, 1814]	3665	[1765, 5622]	6211	[4756, 4518]	8757	[4572, 4520]
1120	[2064, 861]	3666	[5623, 2863]	6212	[7991, 1382]	8758	[3312, 3436]
1121	[2065, 2066]	3667	[5624, 5625]	6213	[3049, 7992]	8759	[7022, 4286]
1122	[2067, 2068]	3668	[5626, 5627]	6214	[4263, 3088]	8760	[9570, 6804]
1123	[2069, 2070]	3669	[5628, 5629]	6215	[4340, 1052]	8761	[7763, 9491]
1124	[2071, 877]	3670	[5630, 5378]	6216	[1621, 1558]	8762	[9571, 1166]
1125	[2072, 2073]	3671	[878, 2865]	6217	[7993, 7994]	8763	[9564, 7164]
1126	[1981, 2074]	3672	[5261, 5631]	6218	[3213, 7492]	8764	[4718, 8198]
1127	[2075, 2076]	3673	[5632, 5633]	6219	[4284, 7259]	8765	[1322, 1423]
1128	[2077, 2078]	3674	[2297, 2195]	6220	[7065, 4096]	8766	[9572, 6851]
1129	[12, 2079]	3675	[5634, 5635]	6221	[7995, 3086]	8767	[6866, 3645]
1130	[2080, 2081]	3676	[3008, 5636]	6222	[7996, 3213]	8768	[369, 3786]
1131	[2082, 2083]	3677	[2585, 5506]	6223	[7997, 7858]	8769	[389, 8261]
1132	[2084, 2085]	3678	[2998, 5637]	6224	[7998, 3161]	8770	[6794, 1155]
1133	[2086, 2087]	3679	[2583, 5638]	6225	[4098, 3790]	8771	[9573, 6903]
1134	[2088, 1910]	3680	[5639, 5640]	6226	[4679, 3437]	8772	[8143, 8064]
1135	[2089, 2090]	3681	[5641, 5642]	6227	[3283, 443]	8773	[3829, 8304]
1136	[2091, 2092]	3682	[1797, 5643]	6228	[7999, 3325]	8774	[9574, 3798]
1137	[2093, 2094]	3683	[5574, 2213]	6229	[6936, 4395]	8775	[9575, 1097]
1138	[2095, 2096]	3684	[5644, 5645]	6230	[4344, 1392]	8776	[3498, 7817]
1139	[2097, 2098]	3685	[5646, 2693]	6231	[7247, 8000]	8777	[9576, 4256]
1140	[198, 2099]	3686	[2675, 2480]	6232	[4249, 7714]	8778	[4764, 4606]
1141	[2100, 2101]	3687	[5647, 2697]	6233	[3473, 4390]	8779	[3898, 7992]
1142	[2102, 753]	3688	[5648, 5649]	6234	[7538, 6800]	8780	[9577, 7337]
1143	[2103, 2104]	3689	[5650, 5651]	6235	[7983, 1254]	8781	[7510, 7619]
1144	[598, 2105]	3690	[2954, 4876]	6236	[3359, 8001]	8782	[1670, 1594]
1145	[2106, 2107]	3691	[5512, 5652]	6237	[1710, 1720]	8783	[4658, 1028]
1146	[2108, 2109]	3692	[5653, 5654]	6238	[3044, 3256]	8784	[1560, 1464]
1147	[1831, 2110]	3693	[5655, 2979]	6239	[8002, 4578]	8785	[7989, 7709]
1148	[2111, 865]	3694	[5656, 2990]	6240	[3781, 1273]	8786	[7618, 7511]
1149	[2112, 2113]	3695	[5657, 912]	6241	[3747, 4436]	8787	[7209, 9578]
1150	[2114, 2115]	3696	[5658, 2700]	6242	[3459, 7429]	8788	[1144, 4597]
1151	[2116, 2117]	3697	[2551, 2013]	6243	[7428, 4611]	8789	[9579, 6997]

1152	[2118, 2119]	3698	[5659, 598]	6244	[8003, 8004]	8790	[8129, 4603]
1153	[1839, 2120]	3699	[5114, 5660]	6245	[3807, 1139]	8791	[3659, 4612]
1154	[2121, 2122]	3700	[5661, 5662]	6246	[8005, 3201]	8792	[3401, 9580]
1155	[2123, 2124]	3701	[2183, 2230]	6247	[7786, 1576]	8793	[9581, 7654]
1156	[2125, 2126]	3702	[5663, 5664]	6248	[8006, 7129]	8794	[1201, 9515]
1157	[2127, 184]	3703	[5401, 5665]	6249	[8007, 3706]	8795	[9582, 3505]
1158	[2128, 2129]	3704	[5666, 5654]	6250	[8008, 368]	8796	[4233, 7334]
1159	[2130, 2131]	3705	[5667, 2985]	6251	[7032, 8009]	8797	[9583, 9584]
1160	[2132, 1863]	3706	[5668, 5669]	6252	[7880, 3951]	8798	[3959, 995]
1161	[2133, 2134]	3707	[5670, 5048]	6253	[8010, 7262]	8799	[6956, 1448]
1162	[2135, 2136]	3708	[2897, 5444]	6254	[360, 8011]	8800	[9585, 4408]
1163	[2137, 2138]	3709	[2584, 2616]	6255	[6965, 3740]	8801	[318, 9586]
1164	[2139, 2140]	3710	[5671, 5672]	6256	[7308, 4549]	8802	[9587, 7970]
1165	[2141, 2142]	3711	[1901, 5673]	6257	[8012, 8013]	8803	[4603, 9588]
1166	[2143, 2144]	3712	[2943, 2577]	6258	[1632, 8014]	8804	[7197, 3570]
1167	[2145, 2146]	3713	[5674, 2153]	6259	[8015, 4340]	8805	[3263, 9589]
1168	[737, 2147]	3714	[638, 2634]	6260	[8016, 8017]	8806	[3635, 9392]
1169	[2148, 2149]	3715	[5675, 5676]	6261	[3986, 7147]	8807	[4271, 9590]
1170	[2150, 2151]	3716	[5677, 3032]	6262	[8018, 7406]	8808	[4736, 9591]
1171	[2152, 2153]	3717	[5678, 5679]	6263	[1676, 1218]	8809	[9592, 7078]
1172	[2154, 2155]	3718	[2904, 2410]	6264	[8019, 7363]	8810	[7572, 7515]
1173	[2156, 2157]	3719	[5680, 5117]	6265	[8020, 7917]	8811	[4553, 7517]
1174	[2158, 2159]	3720	[5681, 4858]	6266	[8021, 7072]	8812	[9474, 9593]
1175	[2160, 738]	3721	[5682, 5683]	6267	[8022, 8023]	8813	[9594, 6894]
1176	[2161, 2162]	3722	[1991, 5684]	6268	[7772, 8024]	8814	[7528, 7116]
1177	[2163, 2164]	3723	[5685, 5686]	6269	[8025, 3871]	8815	[7507, 3420]
1178	[2165, 2166]	3724	[5687, 5688]	6270	[3632, 8026]	8816	[7928, 4269]
1179	[2167, 2168]	3725	[3025, 5689]	6271	[7153, 4599]	8817	[4311, 950]
1180	[2169, 2170]	3726	[5690, 5691]	6272	[7498, 8027]	8818	[9595, 9383]
1181	[2171, 2172]	3727	[5692, 4926]	6273	[8028, 1512]	8819	[3893, 4289]
1182	[2173, 916]	3728	[5693, 5694]	6274	[7200, 1600]	8820	[7361, 8229]
1183	[2174, 1839]	3729	[5695, 694]	6275	[8029, 407]	8821	[7100, 3388]
1184	[2175, 2176]	3730	[5696, 5697]	6276	[3951, 1703]	8822	[7442, 9596]
1185	[2177, 2178]	3731	[5698, 5699]	6277	[8030, 4615]	8823	[7504, 3857]
1186	[890, 1842]	3732	[151, 5700]	6278	[8031, 1123]	8824	[8200, 9467]
1187	[2179, 2180]	3733	[5701, 5702]	6279	[8001, 7727]	8825	[4782, 1591]
1188	[2181, 2182]	3734	[5703, 5704]	6280	[7870, 1686]	8826	[8115, 8246]
1189	[2183, 2184]	3735	[5705, 5149]	6281	[8032, 1397]	8827	[9597, 9325]
1190	[2084, 2087]	3736	[5706, 5707]	6282	[8033, 8034]	8828	[9598, 3311]
1191	[2185, 2186]	3737	[5708, 2510]	6283	[3385, 4428]	8829	[7637, 372]
1192	[2187, 2188]	3738	[5709, 2100]	6284	[1043, 8035]	8830	[261, 1326]
1193	[2189, 2190]	3739	[1946, 5710]	6285	[4652, 8036]	8831	[3612, 7457]
1194	[2191, 2192]	3740	[5711, 5341]	6286	[8037, 3479]	8832	[9599, 7967]
1195	[2193, 2194]	3741	[5712, 757]	6287	[8038, 412]	8833	[1247, 484]

1196	[2195, 2196]	3742	[5713, 5297]	6288	[4675, 7892]	8834	[9433, 9600]
1197	[2197, 2198]	3743	[5714, 2825]	6289	[1403, 7154]	8835	[9601, 7469]
1198	[2199, 2200]	3744	[5715, 5716]	6290	[8039, 7252]	8836	[9602, 4590]
1199	[2201, 2202]	3745	[5717, 2310]	6291	[7588, 8040]	8837	[9603, 9604]
1200	[2203, 918]	3746	[5718, 2860]	6292	[1105, 3727]	8838	[1624, 3632]
1201	[2204, 2205]	3747	[743, 2735]	6293	[8041, 4328]	8839	[8235, 1685]
1202	[216, 2206]	3748	[5719, 5047]	6294	[8042, 7299]	8840	[9605, 3512]
1203	[2207, 2208]	3749	[2028, 5720]	6295	[4063, 7380]	8841	[9606, 9482]
1204	[2209, 2210]	3750	[5721, 5722]	6296	[4310, 949]	8842	[7306, 9607]
1205	[2211, 2212]	3751	[5723, 5724]	6297	[1029, 3285]	8843	[3555, 9608]
1206	[132, 2213]	3752	[5725, 5726]	6298	[8043, 4610]	8844	[344, 9609]
1207	[2214, 2215]	3753	[5727, 5728]	6299	[8044, 7036]	8845	[9610, 7481]
1208	[2216, 2217]	3754	[5572, 5729]	6300	[3364, 1644]	8846	[9611, 9612]
1209	[2218, 2219]	3755	[5730, 5731]	6301	[971, 1117]	8847	[1259, 8036]
1210	[2220, 2221]	3756	[182, 5732]	6302	[8045, 7340]	8848	[9613, 9402]
1211	[2222, 2223]	3757	[5733, 135]	6303	[8046, 8047]	8849	[1481, 1070]
1212	[2224, 2225]	3758	[5734, 5735]	6304	[1131, 4025]	8850	[9614, 9615]
1213	[2226, 2227]	3759	[5736, 5737]	6305	[1410, 4028]	8851	[9616, 7421]
1214	[2228, 819]	3760	[5738, 5739]	6306	[3857, 3367]	8852	[9585, 3925]
1215	[1836, 2229]	3761	[138, 5740]	6307	[8048, 109]	8853	[4643, 9617]
1216	[2230, 2231]	3762	[5741, 926]	6308	[1271, 4393]	8854	[4287, 9618]
1217	[2232, 618]	3763	[5742, 5743]	6309	[8049, 4714]	8855	[4470, 9385]
1218	[2233, 2234]	3764	[2809, 5744]	6310	[8050, 7036]	8856	[6888, 7016]
1219	[2235, 2236]	3765	[5745, 5746]	6311	[8051, 7726]	8857	[3142, 6858]
1220	[809, 2237]	3766	[5747, 5731]	6312	[4793, 3416]	8858	[98, 4331]
1221	[2238, 2239]	3767	[5748, 5749]	6313	[8052, 358]	8859	[7170, 9619]
1222	[194, 691]	3768	[5750, 5751]	6314	[8053, 8054]	8860	[4089, 284]
1223	[2240, 2241]	3769	[5752, 5753]	6315	[1667, 8055]	8861	[7372, 6928]
1224	[2242, 2243]	3770	[5754, 5664]	6316	[1335, 3046]	8862	[9620, 7888]
1225	[2092, 2244]	3771	[3001, 4823]	6317	[4383, 7866]	8863	[7267, 9621]
1226	[805, 2245]	3772	[5755, 2113]	6318	[8056, 7994]	8864	[9622, 119]
1227	[2246, 2247]	3773	[57, 5550]	6319	[8057, 8058]	8865	[4106, 4284]
1228	[2248, 2249]	3774	[5756, 1894]	6320	[7759, 8059]	8866	[4125, 3241]
1229	[2250, 601]	3775	[249, 5757]	6321	[8060, 3044]	8867	[4158, 986]
1230	[2251, 2252]	3776	[5758, 1886]	6322	[3531, 8061]	8868	[9623, 7216]
1231	[2253, 1863]	3777	[5759, 543]	6323	[3801, 3568]	8869	[3833, 1464]
1232	[2254, 2255]	3778	[5760, 2980]	6324	[4642, 7137]	8870	[9624, 8311]
1233	[2256, 1874]	3779	[5761, 5762]	6325	[1253, 7984]	8871	[3465, 7231]
1234	[2257, 1985]	3780	[5763, 4835]	6326	[7199, 7782]	8872	[7767, 9619]
1235	[2258, 2259]	3781	[2441, 1880]	6327	[7853, 3972]	8873	[4666, 1530]
1236	[2260, 2261]	3782	[3014, 5764]	6328	[8062, 8063]	8874	[9625, 3879]
1237	[2262, 2263]	3783	[2198, 5537]	6329	[8016, 8064]	8875	[8239, 9626]
1238	[2264, 2265]	3784	[2977, 5765]	6330	[8065, 4340]	8876	[1601, 7139]
1239	[2266, 2267]	3785	[5766, 680]	6331	[6795, 7546]	8877	[9627, 7891]

1240	[2268, 2269]	3786	[2911, 5450]	6332	[4319, 1244]	8878	[3073, 9628]
1241	[2270, 2271]	3787	[5767, 2643]	6333	[386, 1514]	8879	[9629, 6977]
1242	[2272, 2273]	3788	[5768, 2540]	6334	[4548, 7086]	8880	[4312, 89]
1243	[187, 2274]	3789	[5769, 5108]	6335	[8066, 8067]	8881	[8157, 7211]
1244	[2275, 2197]	3790	[5770, 5771]	6336	[4817, 4002]	8882	[9630, 9631]
1245	[2276, 2277]	3791	[1876, 5468]	6337	[7043, 8068]	8883	[9632, 4126]
1246	[2278, 2279]	3792	[5025, 2177]	6338	[3326, 4371]	8884	[4299, 8245]
1247	[2228, 2280]	3793	[4923, 857]	6339	[8069, 7735]	8885	[7768, 9633]
1248	[2281, 2282]	3794	[5772, 5773]	6340	[8070, 8071]	8886	[6967, 487]
1249	[2283, 1933]	3795	[5726, 5774]	6341	[3229, 7795]	8887	[9455, 3159]
1250	[2043, 2284]	3796	[5475, 2714]	6342	[8072, 968]	8888	[3780, 9530]
1251	[1765, 2079]	3797	[5775, 5776]	6343	[8073, 7977]	8889	[4236, 7236]
1252	[2285, 2286]	3798	[5777, 5778]	6344	[8074, 8075]	8890	[9634, 3714]
1253	[2287, 823]	3799	[4866, 5779]	6345	[8076, 1214]	8891	[9635, 8026]
1254	[2288, 2289]	3800	[5780, 1999]	6346	[4338, 374]	8892	[9338, 9636]
1255	[2290, 2291]	3801	[5781, 5779]	6347	[1494, 1304]	8893	[4524, 463]
1256	[2292, 2293]	3802	[2159, 5782]	6348	[4491, 1133]	8894	[9535, 9637]
1257	[1813, 2294]	3803	[5783, 5784]	6349	[8077, 3075]	8895	[9544, 1701]
1258	[2295, 2296]	3804	[5785, 5142]	6350	[8078, 8079]	8896	[7975, 437]
1259	[2297, 2298]	3805	[5786, 5787]	6351	[8080, 8081]	8897	[9638, 7530]
1260	[2299, 2300]	3806	[2022, 5788]	6352	[8082, 8083]	8898	[7397, 1203]
1261	[2301, 2302]	3807	[5789, 600]	6353	[8084, 8085]	8899	[7490, 7519]
1262	[2303, 2304]	3808	[5790, 5791]	6354	[4368, 8086]	8900	[7363, 9506]
1263	[2305, 2306]	3809	[2940, 1919]	6355	[8087, 3111]	8901	[1530, 9639]
1264	[2307, 2308]	3810	[5792, 1929]	6356	[3672, 3326]	8902	[9640, 9641]
1265	[2309, 2310]	3811	[5793, 5794]	6357	[7204, 7546]	8903	[7859, 9642]
1266	[2311, 2312]	3812	[4863, 5795]	6358	[1460, 4457]	8904	[1421, 3768]
1267	[2313, 2314]	3813	[5047, 5796]	6359	[8088, 1376]	8905	[9643, 3234]
1268	[2315, 133]	3814	[2716, 5797]	6360	[8089, 8090]	8906	[9644, 1115]
1269	[2316, 2317]	3815	[5798, 2866]	6361	[1163, 8091]	8907	[4435, 386]
1270	[2318, 2319]	3816	[5799, 5800]	6362	[4559, 7474]	8908	[7368, 9327]
1271	[2320, 2321]	3817	[5801, 5802]	6363	[6868, 7662]	8909	[947, 1649]
1272	[2322, 2024]	3818	[5803, 2653]	6364	[6817, 6835]	8910	[9645, 9522]
1273	[2323, 2324]	3819	[5592, 5804]	6365	[3499, 7818]	8911	[9646, 18]
1274	[2325, 2326]	3820	[5805, 5806]	6366	[8092, 8093]	8912	[3411, 9647]
1275	[2327, 1900]	3821	[5807, 5808]	6367	[3239, 7821]	8913	[9324, 9648]
1276	[2130, 2328]	3822	[5809, 885]	6368	[7996, 7491]	8914	[9649, 1585]
1277	[2329, 2330]	3823	[5810, 5115]	6369	[8094, 4539]	8915	[3103, 9353]
1278	[2331, 2332]	3824	[5811, 5812]	6370	[8095, 8096]	8916	[7390, 8259]
1279	[2333, 2334]	3825	[1964, 5782]	6371	[8097, 4140]	8917	[6864, 1283]
1280	[2335, 2336]	3826	[597, 5245]	6372	[6957, 4444]	8918	[7980, 7223]
1281	[2337, 2338]	3827	[5813, 5203]	6373	[7766, 3711]	8919	[4212, 1530]
1282	[2339, 2340]	3828	[5814, 5815]	6374	[7086, 8098]	8920	[1222, 366]
1283	[2341, 2342]	3829	[5759, 5816]	6375	[7826, 7948]	8921	[9650, 3057]

1284	[654, 2343]	3830	[5817, 5818]	6376	[8099, 4051]	8922	[7611, 8048]
1285	[2344, 2157]	3831	[5819, 5820]	6377	[83, 8100]	8923	[1068, 9651]
1286	[1912, 2345]	3832	[5821, 1787]	6378	[8101, 320]	8924	[9652, 4805]
1287	[2346, 2347]	3833	[5212, 5822]	6379	[7470, 7079]	8925	[7229, 368]
1288	[2348, 721]	3834	[5823, 5824]	6380	[7452, 8102]	8926	[7481, 9653]
1289	[2349, 1831]	3835	[5225, 5825]	6381	[8103, 8104]	8927	[3992, 4347]
1290	[2350, 2280]	3836	[506, 5826]	6382	[7279, 1222]	8928	[9654, 9373]
1291	[2351, 2352]	3837	[5827, 5428]	6383	[7920, 4522]	8929	[9655, 7108]
1292	[2353, 2354]	3838	[5828, 5765]	6384	[8105, 4362]	8930	[9656, 1554]
1293	[2355, 2356]	3839	[5829, 5830]	6385	[3671, 1642]	8931	[1094, 3084]
1294	[2357, 2282]	3840	[5628, 5831]	6386	[8106, 7169]	8932	[9657, 9658]
1295	[2298, 2196]	3841	[5832, 5307]	6387	[1448, 264]	8933	[9659, 1680]
1296	[2358, 242]	3842	[5833, 4957]	6388	[7156, 3120]	8934	[6914, 9660]
1297	[2359, 727]	3843	[5834, 5577]	6389	[1485, 8107]	8935	[9661, 1412]
1298	[2360, 2361]	3844	[5835, 5836]	6390	[8108, 3215]	8936	[9662, 7981]
1299	[819, 2362]	3845	[5837, 4961]	6391	[8109, 7658]	8937	[9663, 7388]
1300	[2363, 2364]	3846	[5838, 5070]	6392	[1549, 7808]	8938	[3345, 264]
1301	[2365, 2366]	3847	[5839, 547]	6393	[8110, 4220]	8939	[9664, 8281]
1302	[2367, 2368]	3848	[4955, 2040]	6394	[8111, 8112]	8940	[1058, 7794]
1303	[2369, 2370]	3849	[5840, 2042]	6395	[7256, 3625]	8941	[7347, 9665]
1304	[2371, 640]	3850	[5685, 2192]	6396	[3867, 8113]	8942	[4006, 6789]
1305	[2372, 2373]	3851	[4838, 5841]	6397	[8114, 4029]	8943	[3590, 7700]
1306	[2374, 2375]	3852	[5556, 2710]	6398	[1201, 1739]	8944	[3735, 4097]
1307	[2376, 2377]	3853	[5061, 5714]	6399	[8115, 8071]	8945	[1745, 3698]
1308	[2378, 2379]	3854	[5842, 4991]	6400	[4213, 1531]	8946	[9666, 9520]
1309	[2380, 2381]	3855	[5362, 5843]	6401	[3053, 8116]	8947	[4132, 6876]
1310	[2382, 2383]	3856	[5844, 2727]	6402	[7583, 4480]	8948	[9667, 7744]
1311	[2384, 2385]	3857	[5845, 2162]	6403	[8117, 8118]	8949	[1677, 66]
1312	[2386, 2387]	3858	[5846, 5847]	6404	[3191, 8112]	8950	[7208, 9668]
1313	[2388, 2389]	3859	[5848, 5849]	6405	[8119, 7398]	8951	[7495, 375]
1314	[2390, 2391]	3860	[5850, 5851]	6406	[3574, 3167]	8952	[9669, 4589]
1315	[2392, 2393]	3861	[5656, 2567]	6407	[8120, 4039]	8953	[9670, 7247]
1316	[2394, 2395]	3862	[5852, 5520]	6408	[8121, 3195]	8954	[9671, 1682]
1317	[2031, 2396]	3863	[808, 5555]	6409	[1270, 4240]	8955	[3736, 4500]
1318	[2397, 2398]	3864	[5853, 5854]	6410	[7793, 8122]	8956	[4070, 3061]
1319	[2399, 2400]	3865	[5492, 5855]	6411	[8108, 7849]	8957	[4079, 9398]
1320	[2401, 2139]	3866	[2847, 5856]	6412	[3849, 6988]	8958	[4209, 4497]
1321	[1927, 2402]	3867	[5857, 217]	6413	[7431, 1052]	8959	[4645, 271]
1322	[2403, 2404]	3868	[510, 4901]	6414	[8123, 7333]	8960	[4325, 4105]
1323	[2405, 2406]	3869	[5858, 5225]	6415	[7878, 8124]	8961	[1007, 9672]
1324	[2407, 2408]	3870	[5859, 5860]	6416	[8125, 8126]	8962	[4380, 1546]
1325	[2409, 2410]	3871	[5861, 5862]	6417	[8127, 3334]	8963	[8228, 4040]
1326	[2411, 2412]	3872	[5863, 5864]	6418	[1223, 7863]	8964	[4215, 4191]
1327	[1988, 2413]	3873	[5865, 5866]	6419	[3848, 3751]	8965	[4314, 9673]

1328	[2414, 2415]	3874	[5417, 2021]	6420	[1185, 1073]	8966	[7761, 9642]
1329	[1801, 2416]	3875	[5245, 5867]	6421	[8128, 3404]	8967	[9674, 3970]
1330	[2417, 2418]	3876	[5405, 5174]	6422	[4134, 8129]	8968	[406, 7064]
1331	[2218, 2419]	3877	[5868, 2965]	6423	[16, 4453]	8969	[8290, 3200]
1332	[2420, 2030]	3878	[2574, 5869]	6424	[1417, 4355]	8970	[8001, 6868]
1333	[2421, 915]	3879	[5870, 5871]	6425	[1176, 7154]	8971	[3644, 6867]
1334	[2422, 2423]	3880	[5872, 5746]	6426	[8130, 4501]	8972	[8204, 1485]
1335	[2424, 2425]	3881	[5873, 2341]	6427	[7677, 8131]	8973	[3538, 7665]
1336	[2426, 2427]	3882	[2606, 5507]	6428	[7818, 4772]	8974	[4413, 9675]
1337	[2428, 2429]	3883	[5874, 5875]	6429	[4345, 3741]	8975	[9676, 8118]
1338	[2430, 2431]	3884	[5876, 5877]	6430	[4328, 428]	8976	[9336, 9677]
1339	[2432, 2433]	3885	[5878, 2725]	6431	[7143, 1286]	8977	[3523, 9678]
1340	[2434, 2435]	3886	[5879, 5880]	6432	[8132, 6851]	8978	[7803, 7960]
1341	[2260, 2321]	3887	[711, 4873]	6433	[3802, 3908]	8979	[9679, 9452]
1342	[2436, 2437]	3888	[184, 4929]	6434	[8133, 6809]	8980	[9379, 7613]
1343	[2438, 2439]	3889	[769, 2154]	6435	[4208, 3429]	8981	[9583, 4145]
1344	[2440, 2441]	3890	[5881, 5882]	6436	[3174, 4072]	8982	[1385, 7703]
1345	[2442, 620]	3891	[5883, 5884]	6437	[1498, 7365]	8983	[9450, 3700]
1346	[922, 2443]	3892	[5517, 517]	6438	[8134, 8135]	8984	[9680, 1344]
1347	[2444, 176]	3893	[5885, 5886]	6439	[8136, 8137]	8985	[9681, 437]
1348	[2445, 2446]	3894	[5887, 5888]	6440	[3903, 6784]	8986	[9682, 8012]
1349	[551, 2447]	3895	[5889, 5890]	6441	[7292, 8138]	8987	[1632, 8135]
1350	[2448, 810]	3896	[5891, 162]	6442	[8139, 8140]	8988	[4334, 1228]
1351	[2449, 892]	3897	[5892, 5893]	6443	[8141, 305]	8989	[9683, 1035]
1352	[2450, 2451]	3898	[2995, 5724]	6444	[8142, 8143]	8990	[9684, 8004]
1353	[2452, 2453]	3899	[5894, 5895]	6445	[8144, 484]	8991	[321, 4509]
1354	[2082, 2454]	3900	[2409, 2905]	6446	[1572, 3689]	8992	[9685, 3735]
1355	[2455, 2065]	3901	[5896, 2622]	6447	[263, 3758]	8993	[9686, 7578]
1356	[761, 2456]	3902	[5897, 2129]	6448	[4566, 1476]	8994	[9687, 7755]
1357	[2457, 2458]	3903	[5898, 5899]	6449	[4636, 8009]	8995	[3900, 9688]
1358	[225, 2459]	3904	[5900, 5901]	6450	[7602, 4366]	8996	[9689, 7488]
1359	[2460, 2461]	3905	[5902, 5382]	6451	[3509, 4677]	8997	[1671, 302]
1360	[2462, 2463]	3906	[5903, 5904]	6452	[3513, 3377]	8998	[9690, 4728]
1361	[2464, 2465]	3907	[5905, 5906]	6453	[1602, 8005]	8999	[9691, 4685]
1362	[2466, 677]	3908	[5083, 5907]	6454	[8145, 3370]	9000	[7579, 9692]
1363	[2467, 2468]	3909	[5908, 5909]	6455	[1002, 4648]	9001	[4305, 7312]
1364	[2469, 493]	3910	[5910, 2994]	6456	[8146, 8147]	9002	[7968, 3428]
1365	[2470, 2471]	3911	[812, 5911]	6457	[8148, 8149]	9003	[9693, 1409]
1366	[2472, 2473]	3912	[5912, 5913]	6458	[274, 1552]	9004	[7337, 3896]
1367	[662, 2474]	3913	[5914, 2493]	6459	[1207, 7428]	9005	[9694, 4817]
1368	[2475, 2476]	3914	[5915, 5916]	6460	[7235, 4288]	9006	[9695, 9359]
1369	[2477, 2478]	3915	[5917, 5918]	6461	[7042, 4818]	9007	[4578, 4700]
1370	[2479, 675]	3916	[2210, 5919]	6462	[3372, 3967]	9008	[260, 1325]
1371	[190, 2480]	3917	[5920, 5921]	6463	[8139, 7249]	9009	[6910, 3160]

1372	[2481, 2004]	3918	[1929, 5699]	6464	[8150, 6904]	9010	[9696, 3240]
1373	[2482, 2483]	3919	[2141, 5922]	6465	[4796, 8151]	9011	[9697, 8217]
1374	[2484, 2485]	3920	[5923, 5924]	6466	[1012, 7942]	9012	[3306, 6936]
1375	[205, 2154]	3921	[5925, 568]	6467	[4127, 8152]	9013	[9698, 7858]
1376	[2486, 748]	3922	[5926, 5927]	6468	[8153, 8154]	9014	[3850, 1155]
1377	[2487, 2144]	3923	[5527, 4888]	6469	[4732, 4706]	9015	[9699, 7626]
1378	[2488, 2489]	3924	[5928, 5642]	6470	[3289, 4006]	9016	[9700, 9701]
1379	[2490, 2491]	3925	[4849, 2578]	6471	[3654, 286]	9017	[8005, 9702]
1380	[2492, 2493]	3926	[5929, 5930]	6472	[8155, 7383]	9018	[8095, 9703]
1381	[2494, 2456]	3927	[503, 5931]	6473	[4632, 8156]	9019	[4540, 3306]
1382	[2495, 2496]	3928	[5932, 5933]	6474	[8157, 7026]	9020	[1631, 8134]
1383	[2497, 2498]	3929	[5934, 5694]	6475	[8158, 7155]	9021	[3441, 7448]
1384	[2499, 1760]	3930	[5935, 783]	6476	[491, 3146]	9022	[7908, 3852]
1385	[2500, 2501]	3931	[5211, 2064]	6477	[4177, 8159]	9023	[9704, 7110]
1386	[143, 2502]	3932	[5936, 2554]	6478	[8160, 3617]	9024	[9705, 9706]
1387	[2503, 2504]	3933	[5337, 5937]	6479	[1402, 1176]	9025	[6834, 7980]
1388	[2505, 650]	3934	[5938, 5514]	6480	[3392, 4304]	9026	[4562, 1041]
1389	[2506, 2507]	3935	[5939, 5220]	6481	[8161, 7058]	9027	[9707, 352]
1390	[2508, 137]	3936	[5940, 5524]	6482	[3589, 3857]	9028	[7804, 9708]
1391	[2509, 2510]	3937	[5941, 5942]	6483	[8162, 1268]	9029	[9709, 7004]
1392	[1770, 2511]	3938	[5943, 5944]	6484	[3866, 8057]	9030	[7335, 4817]
1393	[2512, 2513]	3939	[5945, 5946]	6485	[8163, 6970]	9031	[1296, 1099]
1394	[2514, 2515]	3940	[582, 5947]	6486	[8164, 8165]	9032	[9710, 7651]
1395	[2516, 2517]	3941	[5948, 5173]	6487	[8166, 8167]	9033	[9711, 3704]
1396	[2362, 2518]	3942	[1867, 2777]	6488	[3598, 8168]	9034	[9466, 4309]
1397	[2519, 2520]	3943	[5949, 908]	6489	[8169, 7841]	9035	[4775, 9712]
1398	[2521, 2522]	3944	[2855, 5787]	6490	[1686, 8011]	9036	[3845, 3324]
1399	[1987, 2523]	3945	[5950, 5951]	6491	[8170, 1371]	9037	[9713, 7885]
1400	[2524, 2525]	3946	[5952, 5953]	6492	[4415, 3552]	9038	[6939, 4753]
1401	[2526, 2527]	3947	[5954, 524]	6493	[1375, 7695]	9039	[9714, 7674]
1402	[832, 2528]	3948	[5584, 2198]	6494	[7137, 4471]	9040	[4720, 1375]
1403	[2529, 2530]	3949	[2280, 820]	6495	[3277, 3790]	9041	[7331, 954]
1404	[1948, 2531]	3950	[5955, 2205]	6496	[6854, 1310]	9042	[9715, 8093]
1405	[2532, 2533]	3951	[2747, 5956]	6497	[3099, 7367]	9043	[7514, 4408]
1406	[2534, 2535]	3952	[5743, 5957]	6498	[4057, 3139]	9044	[3436, 3718]
1407	[2536, 2537]	3953	[5958, 821]	6499	[7343, 6871]	9045	[9716, 7972]
1408	[744, 2538]	3954	[2604, 5959]	6500	[8006, 7199]	9046	[7940, 9554]
1409	[2539, 2540]	3955	[5960, 2025]	6501	[8060, 3379]	9047	[9717, 3617]
1410	[2541, 734]	3956	[5612, 5961]	6502	[7341, 8171]	9048	[7800, 9363]
1411	[2542, 2543]	3957	[5962, 5277]	6503	[3758, 4558]	9049	[391, 4642]
1412	[2544, 2545]	3958	[5963, 2052]	6504	[1357, 7470]	9050	[3578, 4167]
1413	[2546, 2547]	3959	[5838, 5964]	6505	[3382, 3915]	9051	[4186, 9718]
1414	[2548, 907]	3960	[2233, 2647]	6506	[6892, 8172]	9052	[3597, 9719]
1415	[2549, 2550]	3961	[5693, 5415]	6507	[7214, 3748]	9053	[9720, 9483]

1416	[2551, 2095]	3962	[5569, 2074]	6508	[3417, 8173]	9054	[9721, 9722]
1417	[2290, 2552]	3963	[5965, 237]	6509	[8174, 3449]	9055	[4729, 4651]
1418	[2553, 2554]	3964	[5966, 2678]	6510	[8175, 8176]	9056	[3867, 8058]
1419	[2555, 2556]	3965	[5257, 5967]	6511	[7988, 467]	9057	[9723, 7674]
1420	[2557, 2558]	3966	[1941, 5968]	6512	[8177, 962]	9058	[1228, 9495]
1421	[2559, 2560]	3967	[5969, 5970]	6513	[7593, 4273]	9059	[7804, 7961]
1422	[2561, 2562]	3968	[5971, 3005]	6514	[3912, 7051]	9060	[9422, 392]
1423	[2563, 2062]	3969	[5972, 5277]	6515	[8178, 8179]	9061	[1344, 7937]
1424	[2564, 2565]	3970	[5973, 5722]	6516	[4097, 3277]	9062	[3082, 1043]
1425	[2239, 2566]	3971	[5974, 154]	6517	[4777, 3286]	9063	[9319, 3322]
1426	[2567, 2568]	3972	[5560, 5533]	6518	[7931, 8091]	9064	[8089, 7643]
1427	[2091, 2569]	3973	[547, 5975]	6519	[8180, 4421]	9065	[9724, 9725]
1428	[2563, 2570]	3974	[5976, 2661]	6520	[7100, 3515]	9066	[7415, 418]
1429	[2571, 2572]	3975	[2906, 5647]	6521	[3505, 3484]	9067	[4306, 9726]
1430	[2573, 2574]	3976	[5728, 5977]	6522	[7958, 8181]	9068	[9727, 8034]
1431	[2575, 2576]	3977	[5978, 5979]	6523	[8182, 6790]	9069	[7896, 9445]
1432	[2577, 2578]	3978	[5980, 229]	6524	[7789, 1734]	9070	[3973, 6920]
1433	[2579, 2580]	3979	[5648, 5588]	6525	[4161, 7647]	9071	[7035, 1529]
1434	[2581, 659]	3980	[628, 5640]	6526	[7356, 3868]	9072	[7281, 9626]
1435	[2582, 223]	3981	[5981, 5982]	6527	[8183, 8149]	9073	[4734, 9728]
1436	[1911, 2583]	3982	[2776, 1868]	6528	[123, 8184]	9074	[4351, 9729]
1437	[2584, 2585]	3983	[5983, 209]	6529	[8185, 1604]	9075	[9464, 3137]
1438	[2586, 2587]	3984	[5346, 5984]	6530	[7765, 6825]	9076	[9730, 3582]
1439	[2588, 873]	3985	[5985, 5986]	6531	[7034, 8186]	9077	[4616, 9731]
1440	[2589, 2590]	3986	[2058, 5436]	6532	[8187, 4074]	9078	[9732, 9733]
1441	[2176, 2591]	3987	[5987, 5411]	6533	[3451, 3854]	9079	[9722, 1582]
1442	[2592, 2593]	3988	[2892, 936]	6534	[8188, 7706]	9080	[8311, 7804]
1443	[2352, 2594]	3989	[5988, 5989]	6535	[8189, 7037]	9081	[3204, 9734]
1444	[2595, 2596]	3990	[5870, 5990]	6536	[7427, 7880]	9082	[7846, 1031]
1445	[2597, 2598]	3991	[5991, 4854]	6537	[8190, 4151]	9083	[7269, 9735]
1446	[2599, 2600]	3992	[5992, 5993]	6538	[7663, 3635]	9084	[9736, 7358]
1447	[2601, 515]	3993	[5994, 11]	6539	[3378, 8191]	9085	[9737, 7540]
1448	[2602, 2603]	3994	[5995, 5996]	6540	[1272, 4476]	9086	[1744, 9702]
1449	[2604, 2605]	3995	[2609, 2600]	6541	[8192, 1173]	9087	[9738, 3745]
1450	[2606, 2607]	3996	[2562, 5997]	6542	[7159, 8193]	9088	[1536, 9739]
1451	[1940, 630]	3997	[5998, 11]	6543	[1091, 7134]	9089	[3791, 1688]
1452	[2608, 2609]	3998	[2975, 2848]	6544	[8194, 4327]	9090	[9740, 1677]
1453	[2015, 2610]	3999	[817, 5999]	6545	[1555, 1332]	9091	[9657, 9741]
1454	[2611, 1797]	4000	[146, 6000]	6546	[8195, 8196]	9092	[8160, 4407]
1455	[2612, 711]	4001	[6001, 5899]	6547	[8197, 7543]	9093	[3302, 4132]
1456	[2613, 2614]	4002	[2838, 6002]	6548	[4585, 3530]	9094	[9742, 9349]
1457	[2615, 2616]	4003	[6003, 6004]	6549	[7968, 4208]	9095	[4163, 6819]
1458	[2617, 2618]	4004	[6005, 6006]	6550	[7934, 8198]	9096	[3108, 7661]
1459	[2459, 2619]	4005	[6007, 6008]	6551	[3787, 1474]	9097	[3046, 7158]

1460	[573, 2620]	4006	[6009, 5613]	6552	[4242, 7873]	9098	[7819, 4450]
1461	[2621, 2622]	4007	[1886, 6010]	6553	[4461, 3540]	9099	[4294, 4599]
1462	[2623, 2624]	4008	[5570, 6011]	6554	[8199, 3810]	9100	[9743, 3604]
1463	[2625, 2209]	4009	[6012, 6013]	6555	[7742, 3914]	9101	[3809, 9744]
1464	[2626, 2627]	4010	[2164, 5562]	6556	[8200, 4223]	9102	[1715, 8281]
1465	[231, 2628]	4011	[6014, 1845]	6557	[8201, 4813]	9103	[6981, 8129]
1466	[2629, 2229]	4012	[6015, 4852]	6558	[6984, 1750]	9104	[7814, 9418]
1467	[2630, 1883]	4013	[6016, 2604]	6559	[1186, 6886]	9105	[9596, 1165]
1468	[2631, 2632]	4014	[5295, 1966]	6560	[8202, 4327]	9106	[9491, 1717]
1469	[2633, 2634]	4015	[6017, 2486]	6561	[1238, 1526]	9107	[9745, 4004]
1470	[2635, 863]	4016	[6018, 5909]	6562	[4292, 8203]	9108	[9746, 9598]
1471	[2636, 2637]	4017	[733, 6019]	6563	[8204, 1508]	9109	[4170, 4090]
1472	[2638, 2639]	4018	[6020, 6021]	6564	[8205, 3521]	9110	[9747, 277]
1473	[2640, 2641]	4019	[5939, 502]	6565	[4147, 8206]	9111	[8182, 4569]
1474	[2642, 1977]	4020	[6022, 6023]	6566	[4031, 116]	9112	[7434, 7018]
1475	[2643, 2644]	4021	[554, 851]	6567	[8207, 7207]	9113	[3771, 4142]
1476	[2645, 185]	4022	[6024, 6025]	6568	[8208, 8209]	9114	[7885, 1502]
1477	[595, 2646]	4023	[6026, 5915]	6569	[8210, 1011]	9115	[9748, 9728]
1478	[241, 2647]	4024	[2649, 2291]	6570	[4778, 6875]	9116	[9749, 9507]
1479	[2648, 2649]	4025	[768, 205]	6571	[8211, 7449]	9117	[4472, 7123]
1480	[776, 2483]	4026	[6027, 2347]	6572	[7622, 4188]	9118	[9662, 4504]
1481	[2650, 938]	4027	[1976, 6028]	6573	[3881, 336]	9119	[4648, 3842]
1482	[2651, 53]	4028	[6029, 5380]	6574	[8158, 357]	9120	[9750, 6797]
1483	[2652, 201]	4029	[6030, 6031]	6575	[7166, 3181]	9121	[3861, 8201]
1484	[1794, 793]	4030	[6032, 5615]	6576	[1486, 7812]	9122	[1595, 9751]
1485	[186, 2249]	4031	[5206, 5822]	6577	[8212, 4068]	9123	[7000, 3959]
1486	[2653, 2654]	4032	[740, 2533]	6578	[3366, 3858]	9124	[9752, 1062]
1487	[2655, 2104]	4033	[5657, 6033]	6579	[255, 7634]	9125	[1457, 7911]
1488	[2656, 2657]	4034	[6034, 2155]	6580	[8213, 3364]	9126	[7414, 408]
1489	[2658, 2659]	4035	[774, 6035]	6581	[1630, 7989]	9127	[9753, 7732]
1490	[2660, 2661]	4036	[6036, 2488]	6582	[8214, 4220]	9128	[1107, 9754]
1491	[2662, 774]	4037	[6037, 2541]	6583	[8215, 7957]	9129	[9534, 3113]
1492	[1760, 2663]	4038	[227, 5788]	6584	[4607, 283]	9130	[302, 9751]
1493	[2664, 2371]	4039	[6038, 6039]	6585	[1293, 4386]	9131	[7302, 4120]
1494	[2665, 2372]	4040	[6040, 5249]	6586	[8216, 459]	9132	[7165, 7698]
1495	[1898, 2666]	4041	[5361, 5484]	6587	[4017, 8217]	9133	[7586, 9755]
1496	[2667, 2668]	4042	[4844, 6041]	6588	[8218, 4622]	9134	[9756, 262]
1497	[2669, 2670]	4043	[5249, 2820]	6589	[8219, 7681]	9135	[1116, 972]
1498	[2671, 2000]	4044	[6042, 5592]	6590	[1168, 4372]	9136	[6858, 9757]
1499	[2672, 2673]	4045	[6043, 6044]	6591	[8220, 8221]	9137	[4712, 7374]
1500	[2674, 2675]	4046	[871, 871]	6592	[8222, 1058]	9138	[9758, 9759]
1501	[2676, 2677]	4047	[6045, 6046]	6593	[4668, 4619]	9139	[3481, 3123]
1502	[2678, 2679]	4048	[2713, 5476]	6594	[6941, 8061]	9140	[3146, 7499]
1503	[2680, 2681]	4049	[6047, 5824]	6595	[8223, 1131]	9141	[7103, 9760]

1504	[2682, 2683]	4050	[2779, 6048]	6596	[7477, 4295]	9142	[3199, 8291]
1505	[2684, 2685]	4051	[6049, 5678]	6597	[8224, 4080]	9143	[3638, 9761]
1506	[2686, 2687]	4052	[6050, 6051]	6598	[7409, 8225]	9144	[3750, 3849]
1507	[234, 181]	4053	[6052, 1950]	6599	[8173, 7829]	9145	[7626, 9679]
1508	[1756, 2688]	4054	[6053, 1871]	6600	[7871, 1221]	9146	[3247, 7533]
1509	[2689, 2690]	4055	[6054, 4916]	6601	[1713, 8226]	9147	[9762, 7635]
1510	[2691, 2364]	4056	[941, 4963]	6602	[8227, 3707]	9148	[8276, 9763]
1511	[2642, 2692]	4057	[2301, 142]	6603	[7868, 475]	9149	[333, 4160]
1512	[2595, 2693]	4058	[6055, 5762]	6604	[8120, 8228]	9150	[7313, 9761]
1513	[2694, 2372]	4059	[6056, 2998]	6605	[8061, 8229]	9151	[4514, 7012]
1514	[750, 2695]	4060	[6057, 6058]	6606	[1360, 4181]	9152	[1274, 9718]
1515	[2620, 2344]	4061	[6059, 4828]	6607	[8230, 1240]	9153	[4820, 6906]
1516	[2696, 2697]	4062	[6060, 152]	6608	[4316, 7334]	9154	[1656, 3276]
1517	[2152, 2698]	4063	[2389, 6061]	6609	[8231, 3134]	9155	[9764, 78]
1518	[2699, 2700]	4064	[6062, 6063]	6610	[8232, 8233]	9156	[3526, 9739]
1519	[2608, 2599]	4065	[2658, 5856]	6611	[7667, 8234]	9157	[3065, 1364]
1520	[2701, 2702]	4066	[6064, 5413]	6612	[3232, 1414]	9158	[8252, 4773]
1521	[2703, 2704]	4067	[6065, 6066]	6613	[8235, 7870]	9159	[9622, 1414]
1522	[2705, 2557]	4068	[6067, 2894]	6614	[7083, 1121]	9160	[7739, 962]
1523	[2706, 1841]	4069	[6068, 5901]	6615	[7748, 8236]	9161	[1371, 1388]
1524	[2707, 2708]	4070	[2032, 6069]	6616	[4700, 3821]	9162	[8211, 7346]
1525	[2709, 752]	4071	[2651, 246]	6617	[7271, 7125]	9163	[8218, 4047]
1526	[2710, 2603]	4072	[6070, 2101]	6618	[266, 8237]	9164	[9555, 1408]
1527	[2711, 2712]	4073	[749, 6071]	6619	[3443, 8238]	9165	[3490, 9621]
1528	[2713, 2714]	4074	[6072, 641]	6620	[8239, 7282]	9166	[1466, 4616]
1529	[2715, 2590]	4075	[6073, 5710]	6621	[112, 981]	9167	[9765, 4231]
1530	[2716, 2717]	4076	[6074, 6075]	6622	[8240, 3295]	9168	[3148, 4085]
1531	[2718, 831]	4077	[6076, 6077]	6623	[1486, 7860]	9169	[7627, 8048]
1532	[2719, 2720]	4078	[6078, 1793]	6624	[365, 8241]	9170	[1573, 4050]
1533	[2721, 2722]	4079	[6079, 6080]	6625	[1668, 369]	9171	[1701, 9766]
1534	[2723, 567]	4080	[6081, 6082]	6626	[1508, 8107]	9172	[9767, 6892]
1535	[2724, 2725]	4081	[6083, 6084]	6627	[8242, 4401]	9173	[9695, 4252]
1536	[2726, 2727]	4082	[6085, 6086]	6628	[8243, 8244]	9174	[7962, 1439]
1537	[2728, 2729]	4083	[5352, 1771]	6629	[3915, 266]	9175	[9768, 9769]
1538	[2730, 2731]	4084	[704, 1931]	6630	[3286, 8245]	9176	[3949, 84]
1539	[942, 2732]	4085	[6087, 6088]	6631	[3500, 7413]	9177	[9770, 9345]
1540	[2733, 938]	4086	[3015, 713]	6632	[8070, 8246]	9178	[7154, 8134]
1541	[2734, 2735]	4087	[6089, 6090]	6633	[8018, 8247]	9179	[7686, 1442]
1542	[2190, 2736]	4088	[4884, 5422]	6634	[7715, 1378]	9180	[4590, 4444]
1543	[2737, 2738]	4089	[6091, 6092]	6635	[7522, 7688]	9181	[3732, 7508]
1544	[2544, 2739]	4090	[555, 6093]	6636	[8248, 4613]	9182	[7255, 3721]
1545	[2740, 2741]	4091	[6094, 6095]	6637	[3710, 1077]	9183	[9665, 9771]
1546	[2742, 2443]	4092	[5377, 6096]	6638	[8249, 1076]	9184	[1018, 7471]
1547	[2149, 2743]	4093	[2542, 6097]	6639	[8250, 7151]	9185	[4320, 1196]

1548	[2744, 927]	4094	[6098, 6099]	6640	[4294, 1752]	9186	[9772, 348]
1549	[2745, 2366]	4095	[6100, 559]	6641	[7111, 8251]	9187	[1179, 8027]
1550	[2746, 2747]	4096	[6101, 2652]	6642	[3092, 7675]	9188	[9773, 9612]
1551	[2748, 2152]	4097	[6102, 5102]	6643	[8252, 7103]	9189	[3649, 9512]
1552	[2749, 2750]	4098	[6103, 935]	6644	[4541, 8253]	9190	[1294, 4387]
1553	[2751, 2752]	4099	[6104, 137]	6645	[1639, 4064]	9191	[9774, 7678]
1554	[2753, 2420]	4100	[6105, 6106]	6646	[8254, 3536]	9192	[9775, 7132]
1555	[2350, 819]	4101	[3035, 6107]	6647	[3482, 3124]	9193	[1554, 1331]
1556	[2754, 2755]	4102	[6108, 6109]	6648	[8155, 4244]	9194	[9776, 3983]
1557	[2756, 2313]	4103	[2514, 2201]	6649	[8255, 1232]	9195	[3999, 4299]
1558	[2757, 2758]	4104	[2116, 2575]	6650	[7628, 7589]	9196	[9777, 330]
1559	[2759, 2760]	4105	[6110, 6111]	6651	[3603, 8256]	9197	[7541, 3537]
1560	[2145, 231]	4106	[5084, 6112]	6652	[8069, 4770]	9198	[3711, 7226]
1561	[2628, 2718]	4107	[6113, 6114]	6653	[4675, 4331]	9199	[9778, 9779]
1562	[2761, 2762]	4108	[6115, 2605]	6654	[4545, 7476]	9200	[1296, 9449]
1563	[2763, 2262]	4109	[6116, 929]	6655	[3560, 4530]	9201	[9780, 9781]
1564	[2764, 2765]	4110	[2099, 6117]	6656	[7316, 8068]	9202	[7472, 9782]
1565	[2766, 2767]	4111	[5239, 6118]	6657	[7203, 8257]	9203	[9730, 9783]
1566	[2768, 2769]	4112	[6119, 6120]	6658	[8258, 8259]	9204	[9784, 396]
1567	[2770, 2771]	4113	[6121, 6122]	6659	[8260, 8261]	9205	[9384, 1488]
1568	[2772, 2773]	4114	[6123, 4924]	6660	[8262, 1373]	9206	[4190, 3138]
1569	[2774, 2775]	4115	[5789, 2250]	6661	[4609, 325]	9207	[3825, 9366]
1570	[2776, 2777]	4116	[6124, 5804]	6662	[1427, 8096]	9208	[3131, 9771]
1571	[699, 2778]	4117	[3000, 2226]	6663	[3854, 6910]	9209	[9785, 4318]
1572	[758, 2779]	4118	[6125, 5134]	6664	[8263, 1557]	9210	[7949, 9524]
1573	[2780, 2781]	4119	[714, 6126]	6665	[7110, 3365]	9211	[9786, 9787]
1574	[2782, 2783]	4120	[6127, 2683]	6666	[4570, 1555]	9212	[9788, 3702]
1575	[926, 2784]	4121	[5971, 6128]	6667	[4197, 74]	9213	[7130, 1073]
1576	[2785, 2786]	4122	[851, 6093]	6668	[8264, 4270]	9214	[6971, 4228]
1577	[2787, 2788]	4123	[2653, 6129]	6669	[8265, 3928]	9215	[8308, 9789]
1578	[2789, 2790]	4124	[5703, 6130]	6670	[4418, 8266]	9216	[9790, 7680]
1579	[2791, 2792]	4125	[6131, 2854]	6671	[8267, 3659]	9217	[9791, 4137]
1580	[2793, 2058]	4126	[5275, 6132]	6672	[7902, 8268]	9218	[17, 9792]
1581	[2794, 2795]	4127	[6133, 1862]	6673	[8269, 1406]	9219	[3241, 7549]
1582	[2796, 2043]	4128	[2554, 6070]	6674	[8270, 8177]	9220	[9793, 6885]
1583	[2797, 2798]	4129	[6134, 6135]	6675	[8271, 7831]	9221	[1220, 7872]
1584	[2799, 2800]	4130	[2515, 5401]	6676	[7896, 8272]	9222	[9794, 3941]
1585	[2801, 2269]	4131	[6136, 6137]	6677	[7462, 7720]	9223	[4610, 9795]
1586	[2802, 2803]	4132	[2953, 5744]	6678	[8273, 4246]	9224	[9796, 7325]
1587	[2804, 2805]	4133	[6138, 5257]	6679	[7283, 8274]	9225	[1068, 4026]
1588	[838, 2806]	4134	[6139, 5404]	6680	[7855, 8275]	9226	[9721, 7238]
1589	[2807, 2808]	4135	[940, 2203]	6681	[8276, 8277]	9227	[6925, 8151]
1590	[2809, 2810]	4136	[6140, 6088]	6682	[8278, 3328]	9228	[1297, 9423]
1591	[2811, 2812]	4137	[6141, 2090]	6683	[8279, 7967]	9229	[1709, 1719]

1592	[2813, 2814]	4138	[2827, 6142]	6684	[8280, 7936]	9230	[9797, 9798]
1593	[2815, 1808]	4139	[2417, 2167]	6685	[8281, 8282]	9231	[9799, 9609]
1594	[2428, 2731]	4140	[6143, 2353]	6686	[3977, 338]	9232	[7473, 4560]
1595	[757, 2816]	4141	[6144, 5274]	6687	[8283, 3496]	9233	[4300, 7867]
1596	[2817, 2818]	4142	[6145, 5860]	6688	[4391, 7082]	9234	[1212, 9800]
1597	[2819, 2587]	4143	[6146, 6147]	6689	[8284, 6990]	9235	[8082, 9518]
1598	[2820, 2821]	4144	[5943, 6148]	6690	[7044, 8056]	9236	[6998, 9801]
1599	[2822, 2402]	4145	[6149, 6150]	6691	[4451, 8285]	9237	[3150, 6898]
1600	[2823, 2824]	4146	[6151, 6152]	6692	[8286, 8287]	9238	[9802, 9803]
1601	[2825, 2826]	4147	[835, 6153]	6693	[3245, 8288]	9239	[6784, 9804]
1602	[2827, 2828]	4148	[6154, 2974]	6694	[4102, 8001]	9240	[9415, 6801]
1603	[2829, 2830]	4149	[2946, 742]	6695	[7413, 4495]	9241	[9805, 7621]
1604	[2732, 2831]	4150	[6155, 6156]	6696	[103, 7123]	9242	[7008, 7075]
1605	[2830, 2832]	4151	[6157, 6158]	6697	[8289, 4495]	9243	[8270, 7739]
1606	[2833, 1942]	4152	[594, 709]	6698	[7590, 7047]	9244	[9496, 9806]
1607	[2834, 2835]	4153	[2619, 6159]	6699	[8275, 3663]	9245	[9807, 7432]
1608	[169, 2836]	4154	[639, 6160]	6700	[8290, 8291]	9246	[9808, 8143]
1609	[2837, 898]	4155	[6161, 5240]	6701	[8048, 7957]	9247	[4320, 6863]
1610	[773, 2838]	4156	[2098, 1905]	6702	[7019, 3694]	9248	[298, 7978]
1611	[764, 52]	4157	[223, 170]	6703	[4001, 8206]	9249	[7702, 1173]
1612	[2839, 2840]	4158	[5509, 6162]	6704	[8292, 8221]	9250	[3959, 9489]
1613	[2841, 2842]	4159	[5978, 892]	6705	[8140, 3107]	9251	[9809, 4152]
1614	[2843, 2844]	4160	[5117, 2004]	6706	[7320, 421]	9252	[7184, 9810]
1615	[133, 2845]	4161	[6163, 6164]	6707	[3278, 3791]	9253	[3088, 7009]
1616	[2846, 2847]	4162	[6165, 6166]	6708	[8109, 8293]	9254	[4388, 1612]
1617	[1933, 2848]	4163	[6003, 4886]	6709	[8294, 8104]	9255	[9414, 4645]
1618	[2849, 2850]	4164	[2357, 6167]	6710	[3317, 6918]	9256	[9811, 3148]
1619	[2851, 2852]	4165	[1934, 6168]	6711	[7181, 7565]	9257	[6851, 8209]
1620	[2853, 2854]	4166	[6169, 5347]	6712	[7614, 3668]	9258	[7253, 4298]
1621	[2528, 2759]	4167	[6170, 5761]	6713	[7464, 6921]	9259	[1525, 1304]
1622	[2855, 2856]	4168	[6171, 2358]	6714	[7801, 295]	9260	[4075, 4191]
1623	[2857, 2858]	4169	[6172, 6173]	6715	[8295, 1730]	9261	[9812, 9393]
1624	[2859, 2860]	4170	[132, 552]	6716	[8296, 7566]	9262	[9813, 1724]
1625	[2861, 2501]	4171	[2371, 6160]	6717	[1147, 8203]	9263	[9814, 3876]
1626	[2862, 2863]	4172	[6174, 5784]	6718	[8297, 8298]	9264	[4610, 326]
1627	[2864, 2865]	4173	[6175, 5007]	6719	[3546, 7242]	9265	[6870, 7344]
1628	[2866, 2867]	4174	[6176, 6177]	6720	[355, 6980]	9266	[3379, 3256]
1629	[2868, 2869]	4175	[6178, 6179]	6721	[8299, 7968]	9267	[9815, 8067]
1630	[878, 2870]	4176	[6180, 2721]	6722	[8300, 4688]	9268	[9816, 7834]
1631	[2528, 876]	4177	[6073, 6181]	6723	[8301, 4656]	9269	[4693, 9817]
1632	[2530, 2871]	4178	[498, 6182]	6724	[67, 7526]	9270	[7441, 8306]
1633	[2872, 2873]	4179	[6183, 6184]	6725	[8175, 7635]	9271	[9818, 6967]
1634	[2874, 878]	4180	[6185, 6186]	6726	[8302, 4443]	9272	[3694, 1719]
1635	[2864, 2870]	4181	[6187, 6092]	6727	[8303, 7348]	9273	[9786, 7279]

1636	[2875, 2868]	4182	[6188, 6189]	6728	[4531, 8304]	9274	[9774, 8131]
1637	[832, 875]	4183	[6190, 6191]	6729	[8144, 1248]	9275	[7821, 9819]
1638	[2876, 2877]	4184	[6192, 6193]	6730	[8305, 4281]	9276	[9820, 6815]
1639	[2878, 2535]	4185	[881, 5238]	6731	[8214, 7285]	9277	[3300, 9332]
1640	[2879, 2880]	4186	[1831, 6194]	6732	[7779, 4440]	9278	[9821, 9339]
1641	[2881, 2882]	4187	[6195, 5574]	6733	[4511, 8306]	9279	[3138, 9822]
1642	[2883, 2884]	4188	[6196, 4917]	6734	[3118, 7412]	9280	[1203, 1234]
1643	[2865, 2885]	4189	[6197, 1976]	6735	[1346, 3652]	9281	[4396, 4533]
1644	[2886, 2887]	4190	[4970, 36]	6736	[1551, 3889]	9282	[4284, 1250]
1645	[2160, 2147]	4191	[6198, 578]	6737	[3293, 6874]	9283	[9823, 7447]
1646	[2888, 2889]	4192	[5710, 6199]	6738	[7176, 3543]	9284	[7611, 8215]
1647	[2890, 2891]	4193	[509, 5146]	6739	[8307, 4583]	9285	[3744, 7750]
1648	[2892, 2893]	4194	[61, 6200]	6740	[482, 7806]	9286	[1562, 9824]
1649	[2894, 2895]	4195	[6201, 4926]	6741	[3274, 7750]	9287	[9825, 4662]
1650	[2896, 2897]	4196	[6202, 6203]	6742	[6786, 8081]	9288	[9826, 7578]
1651	[2898, 2899]	4197	[5375, 6204]	6743	[7656, 7087]	9289	[8176, 7636]
1652	[1908, 2900]	4198	[2004, 6205]	6744	[4360, 8165]	9290	[7257, 9803]
1653	[2901, 2899]	4199	[2487, 6206]	6745	[4660, 3503]	9291	[3211, 9651]
1654	[2902, 2903]	4200	[6207, 6208]	6746	[3141, 6808]	9292	[9827, 9408]
1655	[887, 2418]	4201	[6209, 5263]	6747	[8308, 1597]	9293	[9813, 9828]
1656	[2904, 2905]	4202	[6210, 5003]	6748	[8309, 1469]	9294	[7398, 9660]
1657	[2906, 2696]	4203	[6211, 5465]	6749	[1540, 4764]	9295	[4780, 9829]
1658	[2907, 2908]	4204	[6212, 6213]	6750	[6890, 3898]	9296	[6836, 3255]
1659	[2909, 2910]	4205	[6214, 5127]	6751	[1499, 3344]	9297	[9830, 8179]
1660	[129, 2911]	4206	[5006, 2900]	6752	[8310, 4565]	9298	[7521, 3707]
1661	[2912, 2913]	4207	[5605, 2873]	6753	[3341, 7379]	9299	[3429, 4663]
1662	[2562, 2914]	4208	[6215, 2871]	6754	[4367, 8311]	9300	[8188, 8000]
1663	[2915, 2139]	4209	[2531, 2874]	6755	[3610, 7274]	9301	[7608, 7627]
1664	[2822, 2916]	4210	[2628, 5264]	6756	[8312, 4281]	9302	[9831, 4070]
1665	[2917, 2918]	4211	[2760, 740]	6757	[8313, 5887]	9303	[9832, 4263]
1666	[2919, 2920]	4212	[6216, 2718]	6758	[2071, 2874]	9304	[7355, 1654]
1667	[1927, 2916]	4213	[2531, 877]	6759	[5719, 2467]	9305	[9833, 4131]
1668	[2921, 2911]	4214	[2530, 2875]	6760	[5368, 6126]	9306	[9573, 7554]
1669	[2922, 2923]	4215	[6133, 6217]	6761	[8314, 8315]	9307	[7862, 9668]
1670	[139, 2924]	4216	[163, 6218]	6762	[6038, 8316]	9308	[9834, 7877]
1671	[2203, 2925]	4217	[6219, 4985]	6763	[8317, 701]	9309	[9835, 9836]
1672	[2926, 2927]	4218	[6220, 6221]	6764	[658, 8318]	9310	[4252, 9360]
1673	[2063, 2294]	4219	[6222, 6223]	6765	[6672, 6607]	9311	[4595, 3292]
1674	[2928, 767]	4220	[2992, 6224]	6766	[6603, 2358]	9312	[9488, 3293]
1675	[2929, 2233]	4221	[734, 6225]	6767	[8319, 8320]	9313	[4603, 7370]
1676	[2930, 2931]	4222	[6226, 2326]	6768	[8321, 6205]	9314	[288, 4660]
1677	[2460, 2932]	4223	[5760, 6227]	6769	[8322, 8323]	9315	[4422, 4787]
1678	[850, 555]	4224	[5101, 6228]	6770	[5403, 8324]	9316	[9837, 2224]
1679	[2933, 2934]	4225	[6229, 1764]	6771	[1844, 5145]	9317	[9838, 2712]

1680	[2935, 2936]	4226	[5742, 5770]	6772	[8325, 4921]	9318	[9839, 8575]
1681	[2937, 2938]	4227	[2124, 732]	6773	[8326, 8327]	9319	[1949, 8409]
1682	[2939, 1822]	4228	[6230, 4969]	6774	[8328, 8329]	9320	[2393, 5309]
1683	[2940, 2941]	4229	[6231, 6232]	6775	[5930, 8330]	9321	[5111, 9267]
1684	[2942, 2943]	4230	[6233, 6234]	6776	[8331, 2070]	9322	[2936, 6522]
1685	[2066, 2944]	4231	[6235, 5060]	6777	[8332, 6609]	9323	[2438, 9840]
1686	[2945, 1954]	4232	[5771, 6236]	6778	[8333, 6153]	9324	[1788, 6381]
1687	[2946, 2947]	4233	[772, 6237]	6779	[8334, 5993]	9325	[9841, 5260]
1688	[2948, 2949]	4234	[6238, 5751]	6780	[6339, 4966]	9326	[9842, 5159]
1689	[1943, 2950]	4235	[4983, 1957]	6781	[8335, 6245]	9327	[9843, 2691]
1690	[2951, 2952]	4236	[4965, 3029]	6782	[8336, 2122]	9328	[9315, 2373]
1691	[2953, 2810]	4237	[6164, 6239]	6783	[5313, 8337]	9329	[9307, 9249]
1692	[2954, 2955]	4238	[6240, 661]	6784	[8338, 8339]	9330	[5498, 5638]
1693	[2956, 2957]	4239	[6241, 5531]	6785	[175, 8340]	9331	[5677, 1796]
1694	[2958, 2959]	4240	[2317, 5825]	6786	[14, 6366]	9332	[9844, 6403]
1695	[2960, 2583]	4241	[2980, 6242]	6787	[666, 827]	9333	[6340, 9845]
1696	[2861, 2961]	4242	[6243, 639]	6788	[5278, 8341]	9334	[224, 2690]
1697	[2451, 2286]	4243	[2111, 6244]	6789	[8342, 2902]	9335	[2630, 9846]
1698	[2962, 2963]	4244	[6245, 6246]	6790	[8343, 51]	9336	[6618, 6251]
1699	[2964, 2965]	4245	[5194, 6247]	6791	[8344, 8345]	9337	[5216, 199]
1700	[59, 2966]	4246	[6248, 6249]	6792	[5272, 2488]	9338	[5149, 5467]
1701	[2038, 2458]	4247	[6250, 6251]	6793	[214, 5975]	9339	[9847, 2812]
1702	[2967, 2968]	4248	[6252, 6253]	6794	[1871, 4975]	9340	[886, 2417]
1703	[2205, 2969]	4249	[6254, 6255]	6795	[5332, 6208]	9341	[8635, 8444]
1704	[2970, 2971]	4250	[5012, 5505]	6796	[5229, 8346]	9342	[3036, 2386]
1705	[2118, 2972]	4251	[55, 6256]	6797	[8319, 8347]	9343	[9848, 6135]
1706	[2973, 2974]	4252	[4926, 2931]	6798	[8348, 2485]	9344	[696, 6515]
1707	[2283, 2975]	4253	[2072, 6257]	6799	[799, 2447]	9345	[9849, 5818]
1708	[2976, 864]	4254	[6258, 6259]	6800	[801, 6623]	9346	[6030, 886]
1709	[2977, 2978]	4255	[6260, 6147]	6801	[8349, 8350]	9347	[6252, 5222]
1710	[2979, 2789]	4256	[6261, 2083]	6802	[4962, 5956]	9348	[8927, 8921]
1711	[2007, 2980]	4257	[6262, 6263]	6803	[2607, 5315]	9349	[9850, 1925]
1712	[2981, 2614]	4258	[5388, 6264]	6804	[8351, 4930]	9350	[5399, 9003]
1713	[2982, 2208]	4259	[5067, 6265]	6805	[8352, 8353]	9351	[8821, 33]
1714	[1872, 2983]	4260	[6266, 6267]	6806	[8354, 2774]	9352	[9851, 8776]
1715	[2984, 575]	4261	[6268, 6269]	6807	[8355, 6413]	9353	[9852, 6511]
1716	[624, 2985]	4262	[5734, 6270]	6808	[8356, 792]	9354	[9853, 2857]
1717	[2559, 2986]	4263	[6271, 6272]	6809	[8357, 5924]	9355	[881, 8425]
1718	[2987, 2988]	4264	[2979, 6273]	6810	[8358, 2621]	9356	[237, 9854]
1719	[2989, 2324]	4265	[2392, 6274]	6811	[504, 8359]	9357	[8461, 9855]
1720	[2990, 2991]	4266	[6275, 5502]	6812	[8360, 8361]	9358	[8555, 9856]
1721	[2992, 172]	4267	[784, 793]	6813	[6594, 6376]	9359	[1892, 2235]
1722	[2993, 2994]	4268	[2157, 6276]	6814	[5801, 8362]	9360	[6256, 5272]
1723	[2995, 2996]	4269	[6277, 6278]	6815	[8363, 6184]	9361	[9857, 9858]

1724	[2997, 2998]	4270	[6279, 6023]	6816	[5005, 842]	9362	[8978, 5178]
1725	[2999, 897]	4271	[2533, 873]	6817	[5342, 8364]	9363	[808, 598]
1726	[3000, 3001]	4272	[5955, 6280]	6818	[8365, 2033]	9364	[2293, 6738]
1727	[3002, 824]	4273	[6281, 6282]	6819	[8366, 6468]	9365	[9131, 5906]
1728	[3003, 703]	4274	[2501, 6283]	6820	[6419, 6061]	9366	[9859, 2435]
1729	[3004, 3005]	4275	[2066, 5794]	6821	[8367, 2741]	9367	[6571, 8768]
1730	[3006, 3007]	4276	[2060, 2131]	6822	[5030, 2433]	9368	[6026, 931]
1731	[3008, 3009]	4277	[6284, 5930]	6823	[2254, 8368]	9369	[5632, 6193]
1732	[3010, 3011]	4278	[6285, 6286]	6824	[8369, 5130]	9370	[6259, 5263]
1733	[3012, 3013]	4279	[196, 5318]	6825	[8370, 5481]	9371	[649, 9860]
1734	[3014, 2200]	4280	[5294, 6287]	6826	[779, 2513]	9372	[720, 9861]
1735	[3015, 3016]	4281	[2159, 1965]	6827	[5852, 8371]	9373	[9862, 5590]
1736	[3017, 3018]	4282	[6288, 5032]	6828	[5845, 8372]	9374	[9863, 6297]
1737	[3019, 2148]	4283	[6289, 6290]	6829	[8373, 6470]	9375	[2012, 2095]
1738	[3020, 3021]	4284	[4835, 6291]	6830	[35, 4971]	9376	[9864, 9865]
1739	[3022, 589]	4285	[6292, 6293]	6831	[2195, 6572]	9377	[2754, 1848]
1740	[3023, 3024]	4286	[4937, 2847]	6832	[8374, 5504]	9378	[5927, 2742]
1741	[3025, 3026]	4287	[2719, 680]	6833	[8375, 1784]	9379	[8597, 6109]
1742	[845, 3027]	4288	[6294, 5904]	6834	[8376, 5496]	9380	[9866, 5409]
1743	[2222, 2927]	4289	[2662, 6295]	6835	[5503, 5100]	9381	[4998, 5430]
1744	[2900, 3028]	4290	[6152, 221]	6836	[2498, 8377]	9382	[647, 8521]
1745	[2490, 3029]	4291	[6296, 6297]	6837	[8378, 6730]	9383	[47, 2656]
1746	[3030, 3031]	4292	[2325, 6298]	6838	[1890, 5190]	9384	[9857, 2489]
1747	[1795, 3032]	4293	[2354, 6299]	6839	[5873, 34]	9385	[9867, 8975]
1748	[3033, 213]	4294	[1994, 5286]	6840	[8379, 5808]	9386	[536, 9173]
1749	[3034, 3035]	4295	[6300, 2235]	6841	[8380, 8381]	9387	[9868, 9869]
1750	[3036, 3037]	4296	[2020, 1834]	6842	[6059, 5840]	9388	[8773, 9870]
1751	[3038, 2609]	4297	[5093, 2744]	6843	[2617, 2574]	9389	[9871, 5139]
1752	[2791, 3039]	4298	[6301, 6302]	6844	[690, 195]	9390	[9872, 5635]
1753	[3040, 909]	4299	[2689, 225]	6845	[8382, 8378]	9391	[5715, 9873]
1754	[3041, 3042]	4300	[5805, 6303]	6846	[6652, 2833]	9392	[6642, 895]
1755	[3043, 3044]	4301	[5621, 6304]	6847	[5810, 5660]	9393	[8424, 626]
1756	[3045, 3046]	4302	[6305, 6306]	6848	[8383, 5583]	9394	[6648, 2275]
1757	[3047, 3048]	4303	[6307, 246]	6849	[5035, 2386]	9395	[8352, 6122]
1758	[3049, 3050]	4304	[2386, 5217]	6850	[5447, 2438]	9396	[6331, 8476]
1759	[3051, 3052]	4305	[6308, 4981]	6851	[5878, 5432]	9397	[2306, 8449]
1760	[944, 3053]	4306	[6309, 4890]	6852	[8384, 889]	9398	[9874, 2918]
1761	[3054, 3055]	4307	[2706, 2258]	6853	[8385, 4849]	9399	[5038, 8890]
1762	[3056, 3057]	4308	[6090, 6310]	6854	[5986, 2384]	9400	[2626, 5526]
1763	[3058, 3059]	4309	[5210, 6263]	6855	[8386, 5155]	9401	[8707, 9875]
1764	[3060, 3061]	4310	[2602, 6311]	6856	[8354, 5357]	9402	[9876, 5933]
1765	[3062, 1298]	4311	[6312, 4827]	6857	[8387, 60]	9403	[9877, 6286]
1766	[3063, 3064]	4312	[6313, 181]	6858	[4965, 2491]	9404	[4953, 6451]
1767	[3065, 3066]	4313	[2871, 2868]	6859	[8388, 8389]	9405	[9878, 9879]

1768	[3067, 3068]	4314	[5452, 6314]	6860	[6401, 8390]	9406	[2060, 2328]
1769	[3069, 1282]	4315	[6315, 1773]	6861	[8391, 8392]	9407	[660, 9880]
1770	[1291, 3070]	4316	[6316, 2379]	6862	[8393, 8394]	9408	[9881, 6675]
1771	[3071, 3072]	4317	[6317, 6318]	6863	[5752, 1783]	9409	[8335, 9882]
1772	[3073, 486]	4318	[6319, 6320]	6864	[6440, 8395]	9410	[9191, 6399]
1773	[3074, 3075]	4319	[6321, 2195]	6865	[3009, 8396]	9411	[5629, 8765]
1774	[3076, 3077]	4320	[2181, 5890]	6866	[2819, 8397]	9412	[6313, 235]
1775	[3078, 340]	4321	[6322, 6164]	6867	[6361, 8398]	9413	[6211, 6395]
1776	[3079, 3080]	4322	[5729, 6323]	6868	[5966, 5179]	9414	[6569, 528]
1777	[3081, 3082]	4323	[6324, 6325]	6869	[8399, 6417]	9415	[9225, 2394]
1778	[3083, 3084]	4324	[4903, 6326]	6870	[2672, 8400]	9416	[2346, 9883]
1779	[3085, 3086]	4325	[6327, 6328]	6871	[8401, 8402]	9417	[5208, 5204]
1780	[3087, 3088]	4326	[6329, 6330]	6872	[8403, 8404]	9418	[9884, 8824]
1781	[3089, 3090]	4327	[6331, 2279]	6873	[5433, 2284]	9419	[9133, 9885]
1782	[3091, 3092]	4328	[6332, 2768]	6874	[6298, 8405]	9420	[9886, 6169]
1783	[3093, 3094]	4329	[5310, 4948]	6875	[8406, 2289]	9421	[566, 9887]
1784	[3095, 3096]	4330	[2207, 5250]	6876	[2893, 937]	9422	[6731, 6615]
1785	[3097, 3098]	4331	[5368, 715]	6877	[8407, 6492]	9423	[9888, 6275]
1786	[3099, 3100]	4332	[197, 6333]	6878	[8408, 2672]	9424	[6037, 733]
1787	[3101, 3102]	4333	[5147, 6334]	6879	[6052, 8409]	9425	[8863, 9231]
1788	[3103, 3104]	4334	[2013, 6335]	6880	[8410, 2145]	9426	[9889, 905]
1789	[382, 3105]	4335	[6336, 2688]	6881	[6068, 8411]	9427	[5842, 8662]
1790	[1586, 3106]	4336	[6337, 6338]	6882	[8412, 5802]	9428	[9890, 8398]
1791	[3107, 464]	4337	[6339, 6340]	6883	[5889, 2182]	9429	[718, 6667]
1792	[3108, 973]	4338	[2577, 4850]	6884	[2210, 8413]	9430	[2527, 936]
1793	[3109, 3110]	4339	[6341, 2751]	6885	[1761, 8414]	9431	[2720, 681]
1794	[3111, 1497]	4340	[2868, 2758]	6886	[8415, 8416]	9432	[8497, 1906]
1795	[3112, 3113]	4341	[6155, 6342]	6887	[8417, 5151]	9433	[1755, 8814]
1796	[3114, 1021]	4342	[6343, 6344]	6888	[8418, 847]	9434	[2565, 8350]
1797	[3115, 1540]	4343	[6345, 2953]	6889	[8419, 8420]	9435	[1980, 5569]
1798	[3116, 3117]	4344	[6346, 6347]	6890	[5320, 8421]	9436	[9891, 5111]
1799	[25, 3118]	4345	[5047, 2468]	6891	[8422, 5443]	9437	[6238, 9892]
1800	[3119, 3120]	4346	[6348, 2696]	6892	[8423, 8424]	9438	[6450, 9893]
1801	[3121, 3122]	4347	[2140, 6349]	6893	[8412, 8362]	9439	[2213, 9894]
1802	[3123, 3124]	4348	[553, 2264]	6894	[2764, 5652]	9440	[641, 5039]
1803	[3125, 3126]	4349	[2176, 6040]	6895	[5237, 8425]	9441	[9197, 2134]
1804	[3127, 3128]	4350	[6350, 6223]	6896	[6466, 8426]	9442	[5274, 5999]
1805	[3129, 1574]	4351	[2148, 6351]	6897	[8427, 6006]	9443	[5570, 9243]
1806	[1738, 3130]	4352	[6352, 1856]	6898	[8428, 6281]	9444	[5272, 9857]
1807	[3131, 3132]	4353	[6050, 6353]	6899	[5901, 5834]	9445	[33, 2341]
1808	[3133, 3134]	4354	[6261, 2454]	6900	[4831, 5688]	9446	[2741, 9865]
1809	[3092, 3135]	4355	[6354, 6355]	6901	[8429, 8430]	9447	[8328, 2050]
1810	[3136, 3137]	4356	[729, 2116]	6902	[8431, 8432]	9448	[9895, 6232]
1811	[3138, 3139]	4357	[6356, 192]	6903	[5860, 5773]	9449	[2196, 6573]

1812	[3140, 1606]	4358	[2354, 796]	6904	[6121, 8353]	9450	[2508, 8811]
1813	[3141, 3142]	4359	[6357, 5650]	6905	[8433, 2098]	9451	[6255, 5566]
1814	[3143, 3144]	4360	[6358, 840]	6906	[2208, 6503]	9452	[9896, 4979]
1815	[3145, 3146]	4361	[6082, 5370]	6907	[611, 5175]	9453	[1817, 8550]
1816	[3147, 3148]	4362	[5992, 6359]	6908	[8434, 8435]	9454	[5578, 9897]
1817	[3149, 3150]	4363	[6360, 6361]	6909	[8436, 8437]	9455	[6358, 5573]
1818	[3151, 3152]	4364	[191, 5279]	6910	[8438, 8439]	9456	[156, 8505]
1819	[3153, 963]	4365	[6362, 5967]	6911	[8440, 8441]	9457	[5666, 8821]
1820	[3154, 3155]	4366	[6363, 6364]	6912	[1877, 8442]	9458	[6583, 9898]
1821	[3156, 3157]	4367	[2396, 6365]	6913	[5828, 2978]	9459	[9240, 6500]
1822	[3158, 3159]	4368	[2945, 6366]	6914	[8443, 2025]	9460	[894, 3001]
1823	[3160, 3161]	4369	[6367, 146]	6915	[8444, 8445]	9461	[4914, 9899]
1824	[3162, 3163]	4370	[6225, 538]	6916	[5611, 1812]	9462	[9900, 6204]
1825	[3164, 3165]	4371	[5631, 875]	6917	[5654, 33]	9463	[1945, 6073]
1826	[3166, 414]	4372	[6368, 6369]	6918	[5200, 8446]	9464	[820, 5019]
1827	[3167, 3168]	4373	[2204, 6280]	6919	[6138, 6362]	9465	[1825, 6306]
1828	[1125, 3169]	4374	[6370, 6371]	6920	[8447, 8448]	9466	[6306, 8600]
1829	[3170, 3171]	4375	[2983, 2092]	6921	[8404, 8449]	9467	[171, 6224]
1830	[3172, 3173]	4376	[6127, 4891]	6922	[2352, 8450]	9468	[9901, 5881]
1831	[3174, 3175]	4377	[657, 6158]	6923	[8451, 141]	9469	[2792, 6684]
1832	[3176, 3177]	4378	[2081, 2821]	6924	[8452, 573]	9470	[5606, 9902]
1833	[3178, 1324]	4379	[6372, 5171]	6925	[5197, 8453]	9471	[5283, 5021]
1834	[3179, 3180]	4380	[6373, 2149]	6926	[8454, 8455]	9472	[2000, 6179]
1835	[1037, 3181]	4381	[6374, 5607]	6927	[8456, 8457]	9473	[5015, 803]
1836	[3182, 3183]	4382	[2873, 1948]	6928	[5460, 853]	9474	[2430, 8946]
1837	[3184, 3185]	4383	[6375, 6376]	6929	[8458, 8459]	9475	[9903, 669]
1838	[431, 3186]	4384	[6377, 6378]	6930	[9, 8395]	9476	[9904, 668]
1839	[3130, 1170]	4385	[769, 6034]	6931	[8460, 8461]	9477	[6528, 9296]
1840	[471, 3187]	4386	[2582, 169]	6932	[8462, 8463]	9478	[9080, 8539]
1841	[3188, 3189]	4387	[6379, 5720]	6933	[6243, 2371]	9479	[9314, 5457]
1842	[3190, 3191]	4388	[6380, 5425]	6934	[8464, 860]	9480	[9905, 6511]
1843	[3192, 21]	4389	[199, 6117]	6935	[8465, 8466]	9481	[150, 2984]
1844	[1352, 3193]	4390	[6381, 2638]	6936	[8467, 587]	9482	[9891, 8872]
1845	[3194, 3195]	4391	[1996, 6382]	6937	[8463, 6513]	9483	[9906, 6013]
1846	[3196, 3197]	4392	[5095, 6249]	6938	[8468, 8469]	9484	[5610, 1811]
1847	[3198, 1055]	4393	[6383, 6384]	6939	[8470, 8471]	9485	[1841, 2259]
1848	[3199, 3200]	4394	[2074, 6011]	6940	[8472, 8473]	9486	[5908, 6599]
1849	[1744, 3201]	4395	[6385, 2968]	6941	[2465, 579]	9487	[8697, 9907]
1850	[1648, 948]	4396	[2816, 2779]	6942	[602, 8327]	9488	[6226, 6298]
1851	[3202, 3203]	4397	[6386, 2498]	6943	[8474, 2949]	9489	[9908, 5132]
1852	[3204, 3205]	4398	[6387, 6388]	6944	[5687, 4832]	9490	[2104, 2652]
1853	[3206, 3207]	4399	[5813, 5208]	6945	[8475, 2094]	9491	[2805, 5888]
1854	[3208, 3209]	4400	[6389, 5236]	6946	[2278, 8476]	9492	[9219, 5735]
1855	[3210, 3211]	4401	[6390, 514]	6947	[8477, 2508]	9493	[9909, 8718]

1856	[3212, 3213]	4402	[6391, 6392]	6948	[8431, 843]	9494	[9910, 6715]
1857	[3214, 3215]	4403	[6393, 6394]	6949	[8478, 840]	9495	[9911, 643]
1858	[3216, 3217]	4404	[5256, 6362]	6950	[8479, 690]	9496	[5365, 9201]
1859	[3218, 3192]	4405	[6395, 5466]	6951	[8480, 5903]	9497	[5937, 6273]
1860	[3219, 3220]	4406	[2224, 5714]	6952	[8481, 5385]	9498	[9912, 2722]
1861	[3221, 3222]	4407	[1758, 508]	6953	[8482, 8483]	9499	[5466, 2116]
1862	[3223, 3224]	4408	[2359, 2834]	6954	[643, 8484]	9500	[9040, 5990]
1863	[3225, 3226]	4409	[6033, 913]	6955	[6446, 2602]	9501	[6698, 9913]
1864	[3083, 3227]	4410	[2521, 2504]	6956	[2405, 6287]	9502	[43, 9914]
1865	[3228, 3229]	4411	[6396, 6397]	6957	[8485, 6756]	9503	[6583, 2537]
1866	[3230, 3231]	4412	[6161, 6118]	6958	[2655, 6101]	9504	[898, 6262]
1867	[3232, 119]	4413	[2137, 2408]	6959	[8486, 5547]	9505	[8564, 8531]
1868	[3233, 3234]	4414	[6385, 880]	6960	[2385, 761]	9506	[9915, 5678]
1869	[3235, 1266]	4415	[6398, 781]	6961	[6088, 8487]	9507	[9916, 522]
1870	[3236, 3165]	4416	[6227, 6242]	6962	[5087, 5480]	9508	[8733, 883]
1871	[3237, 3238]	4417	[2560, 2709]	6963	[6182, 8488]	9509	[9917, 5290]
1872	[3239, 3240]	4418	[2623, 6399]	6964	[8489, 6214]	9510	[9918, 736]
1873	[3241, 3242]	4419	[6400, 874]	6965	[1861, 6217]	9511	[8470, 5737]
1874	[3243, 3244]	4420	[826, 667]	6966	[8490, 8491]	9512	[9919, 6046]
1875	[3245, 3246]	4421	[1979, 5124]	6967	[5183, 8414]	9513	[2518, 5677]
1876	[3247, 3248]	4422	[5001, 2822]	6968	[8492, 8493]	9514	[8908, 9920]
1877	[1056, 3249]	4423	[6401, 4825]	6969	[179, 8494]	9515	[2429, 9921]
1878	[3250, 3251]	4424	[1997, 5643]	6970	[8495, 5866]	9516	[6625, 2067]
1879	[3252, 1391]	4425	[6402, 6403]	6971	[2748, 5674]	9517	[8642, 5085]
1880	[3253, 3115]	4426	[5328, 6404]	6972	[5795, 2066]	9518	[9922, 707]
1881	[3254, 3255]	4427	[6405, 2361]	6973	[2707, 8496]	9519	[8434, 6627]
1882	[3256, 3257]	4428	[2454, 6406]	6974	[8497, 4932]	9520	[9923, 1983]
1883	[3258, 388]	4429	[6407, 6408]	6975	[8498, 2486]	9521	[1826, 5398]
1884	[3259, 3260]	4430	[2333, 6409]	6976	[8499, 8500]	9522	[9924, 615]
1885	[3261, 3262]	4431	[6410, 2672]	6977	[8501, 8323]	9523	[5960, 8922]
1886	[3263, 3264]	4432	[6373, 6351]	6978	[8502, 8503]	9524	[2478, 2776]
1887	[3095, 3265]	4433	[6411, 5716]	6979	[8504, 6620]	9525	[5626, 8578]
1888	[1671, 1595]	4434	[6412, 5726]	6980	[6747, 8505]	9526	[6518, 5578]
1889	[3266, 3267]	4435	[6413, 2252]	6981	[5090, 2929]	9527	[9925, 4860]
1890	[3112, 3268]	4436	[5488, 6414]	6982	[8506, 2490]	9528	[2936, 8947]
1891	[3269, 3270]	4437	[2735, 2538]	6983	[8507, 2632]	9529	[219, 5516]
1892	[3271, 3272]	4438	[2095, 6335]	6984	[8508, 6080]	9530	[5762, 5741]
1893	[3273, 3274]	4439	[6415, 4924]	6985	[8509, 4842]	9531	[6274, 2318]
1894	[3275, 3276]	4440	[5793, 2944]	6986	[6511, 2215]	9532	[9926, 9927]
1895	[3277, 3278]	4441	[6416, 6417]	6987	[2492, 8510]	9533	[9894, 2264]
1896	[3279, 3280]	4442	[6418, 6419]	6988	[8511, 8512]	9534	[2295, 1972]
1897	[953, 3281]	4443	[6420, 6421]	6989	[6233, 8513]	9535	[5907, 9311]
1898	[3282, 3246]	4444	[5268, 2580]	6990	[5043, 8514]	9536	[9928, 8667]
1899	[3283, 3202]	4445	[911, 2750]	6991	[8515, 8516]	9537	[9929, 9930]

1900	[3284, 3285]	4446	[6422, 6423]	6992	[2777, 59]	9538	[813, 2243]
1901	[3286, 3287]	4447	[6424, 648]	6993	[1909, 8517]	9539	[651, 6428]
1902	[3288, 3289]	4448	[6425, 6426]	6994	[8518, 731]	9540	[8743, 8453]
1903	[3290, 3291]	4449	[5631, 2528]	6995	[787, 206]	9541	[9931, 9271]
1904	[3292, 3293]	4450	[854, 5425]	6996	[693, 8519]	9542	[9932, 4868]
1905	[3294, 3295]	4451	[5748, 6077]	6997	[8520, 646]	9543	[227, 9933]
1906	[3296, 3297]	4452	[6427, 6428]	6998	[6424, 8521]	9544	[2165, 5769]
1907	[3298, 3299]	4453	[32, 128]	6999	[8522, 8523]	9545	[830, 6545]
1908	[3300, 3301]	4454	[6429, 6430]	7000	[8446, 1848]	9546	[9934, 5536]
1909	[3302, 3303]	4455	[6431, 6432]	7001	[6187, 6695]	9547	[2026, 6701]
1910	[3304, 3305]	4456	[6433, 6434]	7002	[8524, 4844]	9548	[1962, 9935]
1911	[3306, 3307]	4457	[6435, 2617]	7003	[612, 8525]	9549	[5837, 9936]
1912	[3308, 3309]	4458	[6436, 6437]	7004	[8526, 1829]	9550	[9014, 9937]
1913	[3310, 3311]	4459	[6438, 6439]	7005	[8329, 2224]	9551	[9274, 5320]
1914	[1356, 3312]	4460	[6440, 10]	7006	[2880, 8527]	9552	[9938, 9089]
1915	[3313, 1016]	4461	[2351, 5297]	7007	[8386, 8528]	9553	[6237, 8916]
1916	[3314, 3315]	4462	[1771, 6441]	7008	[2167, 8529]	9554	[9939, 2557]
1917	[3316, 3317]	4463	[2687, 653]	7009	[6666, 719]	9555	[2331, 8747]
1918	[3318, 3319]	4464	[6442, 6443]	7010	[8530, 8531]	9556	[9940, 8944]
1919	[3320, 3305]	4465	[6172, 6444]	7011	[5193, 509]	9557	[8545, 2350]
1920	[3321, 3322]	4466	[6445, 6269]	7012	[8532, 4951]	9558	[9266, 5337]
1921	[1101, 1706]	4467	[6446, 2710]	7013	[8533, 8534]	9559	[9058, 9941]
1922	[3323, 1353]	4468	[6447, 1854]	7014	[8535, 2212]	9560	[2586, 8397]
1923	[3324, 3325]	4469	[6448, 782]	7015	[8536, 2858]	9561	[9942, 5104]
1924	[3326, 1168]	4470	[2497, 6449]	7016	[8537, 2251]	9562	[5726, 9175]
1925	[3327, 490]	4471	[5107, 772]	7017	[5979, 893]	9563	[9943, 6472]
1926	[3328, 3329]	4472	[2449, 5979]	7018	[5358, 6282]	9564	[4868, 6487]
1927	[3330, 433]	4473	[6450, 6451]	7019	[2365, 8538]	9565	[9944, 689]
1928	[3331, 3332]	4474	[4972, 6452]	7020	[8539, 678]	9566	[8714, 6611]
1929	[3333, 3334]	4475	[6453, 6454]	7021	[1930, 705]	9567	[9945, 8573]
1930	[3335, 3336]	4476	[5937, 2789]	7022	[937, 5435]	9568	[5608, 6519]
1931	[3337, 3338]	4477	[2833, 5968]	7023	[8540, 2902]	9569	[5529, 605]
1932	[3339, 3340]	4478	[6455, 6456]	7024	[2968, 881]	9570	[9294, 9946]
1933	[3341, 3342]	4479	[1805, 6457]	7025	[4864, 5679]	9571	[8668, 9255]
1934	[3343, 3344]	4480	[692, 2751]	7026	[211, 5995]	9572	[8759, 9947]
1935	[3345, 3346]	4481	[2633, 5534]	7027	[4932, 8541]	9573	[5191, 8400]
1936	[3347, 3348]	4482	[6458, 6459]	7028	[8542, 233]	9574	[2818, 9948]
1937	[3349, 3350]	4483	[5508, 6460]	7029	[4986, 8543]	9575	[2753, 2029]
1938	[3351, 3352]	4484	[6461, 5035]	7030	[8544, 2186]	9576	[9166, 9949]
1939	[1337, 1201]	4485	[6462, 5181]	7031	[8545, 2228]	9577	[2471, 8947]
1940	[3353, 274]	4486	[5337, 2979]	7032	[5773, 2560]	9578	[5764, 9285]
1941	[3149, 1194]	4487	[6463, 6464]	7033	[5543, 1941]	9579	[4933, 8500]
1942	[3354, 3355]	4488	[6465, 2343]	7034	[2349, 5169]	9580	[915, 9950]
1943	[3356, 3357]	4489	[2259, 5462]	7035	[8546, 2545]	9581	[4998, 6008]

1944	[3358, 3359]	4490	[2533, 6400]	7036	[6656, 8547]	9582	[8540, 5407]
1945	[3360, 3361]	4491	[2588, 6400]	7037	[8548, 8402]	9583	[6015, 5045]
1946	[3362, 3363]	4492	[5262, 2531]	7038	[2618, 5869]	9584	[9951, 627]
1947	[3364, 3365]	4493	[5205, 5604]	7039	[8549, 5083]	9585	[8552, 6033]
1948	[3366, 3367]	4494	[5008, 2400]	7040	[6548, 8550]	9586	[9262, 699]
1949	[3368, 1349]	4495	[6466, 6086]	7041	[5642, 8551]	9587	[8943, 9952]
1950	[3369, 3370]	4496	[6467, 6468]	7042	[8552, 912]	9588	[5549, 58]
1951	[3371, 3303]	4497	[6469, 6470]	7043	[8553, 4894]	9589	[6392, 2476]
1952	[3372, 3373]	4498	[6471, 1871]	7044	[8554, 6660]	9590	[9953, 6692]
1953	[3374, 3375]	4499	[6472, 4918]	7045	[5228, 2035]	9591	[9954, 2305]
1954	[28, 3376]	4500	[6473, 6010]	7046	[6309, 8555]	9592	[9955, 9870]
1955	[970, 3377]	4501	[6474, 2193]	7047	[8556, 496]	9593	[9956, 760]
1956	[3378, 363]	4502	[6475, 2786]	7048	[8370, 2141]	9594	[9957, 9958]
1957	[3379, 3380]	4503	[135, 6476]	7049	[5894, 8557]	9595	[2171, 636]
1958	[3381, 3382]	4504	[6477, 6478]	7050	[5766, 2720]	9596	[9213, 2598]
1959	[3383, 1659]	4505	[6220, 5491]	7051	[8558, 5507]	9597	[4980, 9007]
1960	[3384, 3385]	4506	[6479, 1987]	7052	[8559, 8560]	9598	[9093, 6075]
1961	[3386, 3387]	4507	[6480, 6481]	7053	[8543, 5068]	9599	[5544, 5182]
1962	[3388, 3389]	4508	[6482, 6483]	7054	[8561, 2512]	9600	[9008, 2393]
1963	[3390, 3391]	4509	[6484, 6150]	7055	[632, 5740]	9601	[2208, 9212]
1964	[3392, 975]	4510	[5175, 6485]	7056	[8562, 8563]	9602	[5674, 2698]
1965	[3393, 3394]	4511	[6486, 6487]	7057	[8564, 8565]	9603	[2481, 8321]
1966	[3395, 3396]	4512	[6488, 6489]	7058	[8566, 3033]	9604	[9959, 6354]
1967	[3397, 307]	4513	[6490, 6491]	7059	[8567, 5248]	9605	[5809, 9060]
1968	[1287, 3398]	4514	[6492, 942]	7060	[8568, 8525]	9606	[9112, 8494]
1969	[273, 287]	4515	[5871, 6493]	7061	[8569, 8570]	9607	[5552, 5067]
1970	[3399, 3400]	4516	[5128, 6494]	7062	[2857, 5367]	9608	[604, 5530]
1971	[475, 3401]	4517	[6495, 2230]	7063	[8571, 8330]	9609	[9960, 2377]
1972	[3402, 3403]	4518	[6496, 1810]	7064	[8572, 8573]	9610	[9894, 9839]
1973	[3404, 1411]	4519	[5931, 6497]	7065	[6486, 4869]	9611	[9151, 6613]
1974	[1617, 3405]	4520	[825, 2502]	7066	[8574, 756]	9612	[9961, 5851]
1975	[1528, 3406]	4521	[5121, 5826]	7067	[2264, 8575]	9613	[5221, 6253]
1976	[3407, 3408]	4522	[4951, 6039]	7068	[5008, 8576]	9614	[6579, 9174]
1977	[3409, 3410]	4523	[2592, 6498]	7069	[8577, 8578]	9615	[9962, 2797]
1978	[3411, 3412]	4524	[2216, 5487]	7070	[8579, 5223]	9616	[6072, 1966]
1979	[3413, 3414]	4525	[6499, 2850]	7071	[802, 2945]	9617	[9963, 8851]
1980	[3415, 3416]	4526	[6500, 5757]	7072	[8580, 5038]	9618	[6680, 8678]
1981	[3417, 3418]	4527	[6501, 1956]	7073	[8581, 6540]	9619	[9964, 6478]
1982	[3419, 3420]	4528	[6502, 5951]	7074	[8582, 8583]	9620	[6043, 5882]
1983	[3421, 3422]	4529	[5466, 730]	7075	[6272, 2923]	9621	[9965, 9966]
1984	[1526, 3423]	4530	[5250, 6503]	7076	[8584, 2437]	9622	[6139, 8324]
1985	[3424, 1614]	4531	[618, 2384]	7077	[6508, 6018]	9623	[2671, 6178]
1986	[3425, 3426]	4532	[5587, 5649]	7078	[8585, 2478]	9624	[9967, 6195]
1987	[996, 3427]	4533	[6504, 2795]	7079	[5145, 510]	9625	[9968, 8452]

1988	[1428, 100]	4534	[6505, 3039]	7080	[8586, 8587]	9626	[8522, 8658]
1989	[3428, 3429]	4535	[2929, 241]	7081	[8588, 3004]	9627	[8337, 8757]
1990	[3430, 3431]	4536	[2191, 5686]	7082	[8589, 8590]	9628	[2247, 2015]
1991	[3432, 3433]	4537	[6506, 6370]	7083	[5696, 6664]	9629	[2751, 8519]
1992	[3434, 3435]	4538	[5230, 6507]	7084	[8591, 5676]	9630	[159, 8986]
1993	[1357, 3436]	4539	[6508, 5908]	7085	[5425, 8592]	9631	[9969, 5586]
1994	[3053, 3437]	4540	[5712, 5188]	7086	[3027, 654]	9632	[6507, 5058]
1995	[3438, 3439]	4541	[246, 6509]	7087	[6114, 6588]	9633	[9970, 5243]
1996	[3440, 461]	4542	[6510, 4925]	7088	[8593, 8594]	9634	[8810, 9971]
1997	[3441, 3442]	4543	[6511, 6512]	7089	[910, 2749]	9635	[1922, 6481]
1998	[1511, 3443]	4544	[909, 6339]	7090	[8595, 1961]	9636	[9972, 6729]
1999	[3444, 3445]	4545	[532, 2845]	7091	[8596, 683]	9637	[9973, 5474]
2000	[3446, 3447]	4546	[5110, 6513]	7092	[8597, 8598]	9638	[5522, 9974]
2001	[3448, 3449]	4547	[6514, 6515]	7093	[8599, 6546]	9639	[9975, 5847]
2002	[3450, 3451]	4548	[6516, 2383]	7094	[2858, 147]	9640	[9976, 5807]
2003	[3452, 3453]	4549	[5452, 2644]	7095	[4861, 8600]	9641	[9977, 2256]
2004	[3454, 1634]	4550	[6517, 6518]	7096	[2876, 8601]	9642	[9978, 8956]
2005	[3342, 3455]	4551	[621, 6519]	7097	[8346, 672]	9643	[2465, 9979]
2006	[3456, 3457]	4552	[6520, 4828]	7098	[8602, 2527]	9644	[2806, 5893]
2007	[3458, 3459]	4553	[1875, 5467]	7099	[8603, 8604]	9645	[6399, 9185]
2008	[1381, 3460]	4554	[6521, 671]	7100	[8605, 5446]	9646	[6492, 4963]
2009	[3461, 3270]	4555	[5469, 1913]	7101	[8606, 668]	9647	[9980, 2593]
2010	[3462, 3463]	4556	[2471, 6522]	7102	[4955, 6213]	9648	[9981, 9013]
2011	[3464, 3127]	4557	[6523, 2029]	7103	[8607, 5321]	9649	[9277, 179]
2012	[3465, 3466]	4558	[2903, 1789]	7104	[8608, 8609]	9650	[5977, 8893]
2013	[3467, 3468]	4559	[5419, 6132]	7105	[2598, 8610]	9651	[2225, 2825]
2014	[3469, 3470]	4560	[6524, 2776]	7106	[8611, 8612]	9652	[6364, 6303]
2015	[3471, 3472]	4561	[6525, 6500]	7107	[831, 5631]	9653	[9839, 2265]
2016	[3473, 1661]	4562	[5315, 6460]	7108	[8613, 8614]	9654	[4986, 5067]
2017	[3474, 3475]	4563	[816, 6526]	7109	[8615, 5903]	9655	[2883, 8459]
2018	[3476, 3477]	4564	[2069, 6527]	7110	[8458, 2884]	9656	[9982, 2350]
2019	[3478, 3479]	4565	[5020, 5284]	7111	[5743, 5771]	9657	[8418, 879]
2020	[3480, 1037]	4566	[708, 595]	7112	[5203, 5209]	9658	[6579, 5651]
2021	[3481, 3482]	4567	[6528, 6529]	7113	[3037, 2387]	9659	[9906, 8846]
2022	[3483, 1025]	4568	[753, 6264]	7114	[8616, 5881]	9660	[9983, 1776]
2023	[3484, 3485]	4569	[6530, 6489]	7115	[8617, 6373]	9661	[9312, 5325]
2024	[3486, 3487]	4570	[864, 6244]	7116	[2690, 2459]	9662	[5811, 9276]
2025	[3488, 3489]	4571	[6531, 6361]	7117	[799, 8618]	9663	[9984, 8513]
2026	[3490, 3491]	4572	[12, 5622]	7118	[8619, 4902]	9664	[8326, 603]
2027	[3492, 3493]	4573	[5910, 6532]	7119	[2146, 2628]	9665	[6600, 757]
2028	[3494, 1543]	4574	[6533, 6534]	7120	[8620, 600]	9666	[5531, 8496]
2029	[3495, 3496]	4575	[6535, 2877]	7121	[5938, 8621]	9667	[9165, 2857]
2030	[3077, 3497]	4576	[2122, 5561]	7122	[5306, 8622]	9668	[5664, 2677]
2031	[3498, 3499]	4577	[6363, 5805]	7123	[8623, 5531]	9669	[8684, 6647]

2032	[3118, 3500]	4578	[2313, 245]	7124	[8624, 8625]	9670	[5199, 9168]
2033	[3501, 3502]	4579	[2680, 791]	7125	[8626, 2391]	9671	[2156, 8783]
2034	[289, 3503]	4580	[6536, 6342]	7126	[8627, 8628]	9672	[1868, 59]
2035	[3504, 3505]	4581	[537, 6537]	7127	[8629, 6159]	9673	[9985, 5157]
2036	[3506, 3507]	4582	[6538, 1851]	7128	[526, 5684]	9674	[9187, 1785]
2037	[3508, 3509]	4583	[6539, 5230]	7129	[6543, 8630]	9675	[6118, 5328]
2038	[3446, 3510]	4584	[6540, 6040]	7130	[8518, 2124]	9676	[8667, 9164]
2039	[3511, 3512]	4585	[6115, 5959]	7131	[8440, 6344]	9677	[6061, 8440]
2040	[969, 3513]	4586	[6079, 6541]	7132	[8631, 5113]	9678	[9986, 2610]
2041	[1019, 3514]	4587	[6542, 2824]	7133	[8632, 8633]	9679	[9943, 5862]
2042	[3515, 3516]	4588	[6543, 6544]	7134	[8634, 5663]	9680	[2888, 5953]
2043	[3517, 3518]	4589	[6545, 6546]	7135	[8461, 2136]	9681	[8821, 5873]
2044	[3519, 3520]	4590	[5246, 911]	7136	[8635, 2891]	9682	[8724, 9930]
2045	[3521, 3522]	4591	[2241, 6323]	7137	[6615, 5343]	9683	[5000, 9041]
2046	[3523, 3524]	4592	[4938, 6547]	7138	[8636, 1815]	9684	[9113, 9987]
2047	[3525, 3526]	4593	[6548, 1818]	7139	[8637, 5048]	9685	[4920, 5742]
2048	[3527, 3528]	4594	[6549, 6550]	7140	[653, 6465]	9686	[9967, 131]
2049	[3529, 3530]	4595	[6551, 5541]	7141	[8536, 5367]	9687	[6572, 8952]
2050	[1362, 3531]	4596	[6552, 5357]	7142	[5334, 8638]	9688	[9988, 2617]
2051	[87, 3532]	4597	[6553, 6554]	7143	[1973, 2704]	9689	[9989, 9990]
2052	[3533, 1135]	4598	[6031, 2417]	7144	[2994, 8639]	9690	[6156, 5221]
2053	[3534, 3535]	4599	[6362, 6555]	7145	[2872, 1947]	9691	[8446, 2755]
2054	[3536, 3537]	4600	[6556, 5029]	7146	[2867, 6259]	9692	[9882, 6246]
2055	[3538, 3064]	4601	[5598, 6557]	7147	[5165, 8640]	9693	[8407, 941]
2056	[3539, 3540]	4602	[5116, 1864]	7148	[8641, 6483]	9694	[5071, 9991]
2057	[3541, 1484]	4603	[6558, 2550]	7149	[8642, 6112]	9695	[724, 5051]
2058	[3542, 3543]	4604	[6559, 5674]	7150	[535, 2950]	9696	[2122, 495]
2059	[3544, 1545]	4605	[5844, 6560]	7151	[8643, 8484]	9697	[5832, 8622]
2060	[3545, 3546]	4606	[938, 6561]	7152	[8644, 4945]	9698	[9260, 6647]
2061	[3547, 1198]	4607	[6562, 2177]	7153	[5949, 3040]	9699	[5077, 9022]
2062	[3548, 3549]	4608	[6563, 5413]	7154	[8645, 2073]	9700	[2323, 5426]
2063	[306, 3550]	4609	[5192, 6564]	7155	[8482, 5970]	9701	[9992, 6114]
2064	[3551, 3552]	4610	[6565, 5448]	7156	[693, 2752]	9702	[9993, 5233]
2065	[3057, 3553]	4611	[2637, 2060]	7157	[8646, 551]	9703	[6290, 5214]
2066	[3554, 3555]	4612	[6566, 6567]	7158	[2941, 8647]	9704	[5477, 8638]
2067	[3556, 1476]	4613	[6568, 6321]	7159	[6738, 6622]	9705	[9994, 6395]
2068	[3557, 3558]	4614	[6569, 5255]	7160	[8490, 8648]	9706	[9995, 8741]
2069	[3559, 3560]	4615	[6570, 6571]	7161	[8649, 8650]	9707	[2462, 2736]
2070	[3561, 3130]	4616	[6572, 6573]	7162	[8651, 6099]	9708	[9996, 9038]
2071	[3365, 1637]	4617	[6574, 6575]	7163	[558, 8652]	9709	[9129, 8779]
2072	[3079, 1479]	4618	[2494, 762]	7164	[155, 6747]	9710	[2037, 4953]
2073	[3562, 3563]	4619	[6576, 6577]	7165	[8653, 4991]	9711	[5901, 5576]
2074	[1731, 3564]	4620	[6578, 6579]	7166	[8654, 1777]	9712	[9997, 2721]
2075	[3311, 298]	4621	[5720, 815]	7167	[2434, 8655]	9713	[529, 4904]

2076	[3565, 1581]	4622	[6580, 5605]	7168	[5582, 8656]	9714	[9847, 9297]
2077	[3314, 475]	4623	[2529, 6215]	7169	[8657, 8658]	9715	[5827, 8828]
2078	[3566, 3567]	4624	[2873, 5262]	7170	[8423, 8659]	9716	[4890, 9998]
2079	[24, 3568]	4625	[6581, 2867]	7171	[8660, 8661]	9717	[5849, 5562]
2080	[3569, 3570]	4626	[5478, 5604]	7172	[2064, 4968]	9718	[9999, 206]
2081	[3571, 3572]	4627	[872, 871]	7173	[8662, 8663]	9719	[10000, 224]
2082	[3573, 3574]	4628	[5263, 6215]	7174	[8664, 8665]	9720	[8867, 9990]
2083	[3575, 1094]	4629	[874, 2866]	7175	[5599, 1842]	9721	[5840, 2796]
2084	[3576, 3319]	4630	[6582, 6583]	7176	[5935, 6748]	9722	[8636, 4835]
2085	[3577, 3578]	4631	[6584, 5455]	7177	[8666, 8667]	9723	[9972, 5943]
2086	[3579, 3580]	4632	[6476, 894]	7178	[8668, 8669]	9724	[6375, 6595]
2087	[3479, 3391]	4633	[5069, 5964]	7179	[8645, 6257]	9725	[10001, 8996]
2088	[3515, 3389]	4634	[2620, 2156]	7180	[2859, 8670]	9726	[1789, 2638]
2089	[3581, 3582]	4635	[6585, 6586]	7181	[8671, 8347]	9727	[6642, 2053]
2090	[3381, 3583]	4636	[6076, 5749]	7182	[5451, 2643]	9728	[10002, 5830]
2091	[3584, 3585]	4637	[6587, 6588]	7183	[4873, 2702]	9729	[10003, 9155]
2092	[3240, 3586]	4638	[6589, 6584]	7184	[6755, 5388]	9730	[2710, 6311]
2093	[3587, 3588]	4639	[6316, 5515]	7185	[5537, 1889]	9731	[10004, 2423]
2094	[3589, 3366]	4640	[6590, 6591]	7186	[8672, 1911]	9732	[10005, 6432]
2095	[3590, 3363]	4641	[6592, 6593]	7187	[6332, 5320]	9733	[10006, 2407]
2096	[3591, 3592]	4642	[5849, 5107]	7188	[8673, 8514]	9734	[10007, 5065]
2097	[3593, 3594]	4643	[6398, 5012]	7189	[8674, 8675]	9735	[10008, 8394]
2098	[3595, 3596]	4644	[6594, 6595]	7190	[8676, 6057]	9736	[8617, 2148]
2099	[3597, 1651]	4645	[6596, 5673]	7191	[2869, 5205]	9737	[6213, 4972]
2100	[3598, 114]	4646	[6597, 2166]	7192	[8677, 8614]	9738	[10009, 6630]
2101	[3599, 3600]	4647	[6598, 6577]	7193	[2024, 8678]	9739	[5455, 6392]
2102	[3601, 1430]	4648	[1946, 6181]	7194	[5015, 516]	9740	[5609, 5016]
2103	[3602, 1432]	4649	[6599, 4897]	7195	[8679, 6605]	9741	[10010, 2781]
2104	[3603, 3604]	4650	[6600, 5188]	7196	[8680, 8681]	9742	[8671, 8320]
2105	[3605, 3606]	4651	[2090, 38]	7197	[6387, 6434]	9743	[5624, 8838]
2106	[3607, 3608]	4652	[4941, 188]	7198	[8682, 8683]	9744	[10011, 6526]
2107	[3609, 3610]	4653	[6601, 6518]	7199	[8684, 2516]	9745	[8365, 6000]
2108	[3611, 3612]	4654	[5904, 6130]	7200	[8685, 2563]	9746	[5277, 5192]
2109	[3613, 3614]	4655	[6602, 6603]	7201	[8686, 6738]	9747	[4976, 2048]
2110	[3615, 3616]	4656	[5706, 5581]	7202	[6060, 5700]	9748	[1879, 5322]
2111	[3617, 3618]	4657	[6604, 5662]	7203	[8649, 2971]	9749	[6703, 6754]
2112	[3619, 3620]	4658	[53, 6509]	7204	[6215, 2875]	9750	[8804, 8675]
2113	[3621, 3622]	4659	[5467, 4914]	7205	[5848, 2164]	9751	[2731, 9921]
2114	[3365, 1645]	4660	[5545, 712]	7206	[5654, 5873]	9752	[6458, 8835]
2115	[3623, 3624]	4661	[6164, 6605]	7207	[8687, 2441]	9753	[4982, 1956]
2116	[3625, 3626]	4662	[6606, 6607]	7208	[2199, 5764]	9754	[2041, 6452]
2117	[3627, 3628]	4663	[6608, 6609]	7209	[8688, 8689]	9755	[5412, 6694]
2118	[3629, 1059]	4664	[6610, 5590]	7210	[8465, 6741]	9756	[5430, 10012]
2119	[3630, 3317]	4665	[2886, 6611]	7211	[8690, 8389]	9757	[792, 5995]

2120	[3631, 3632]	4666	[5525, 2627]	7212	[5468, 4915]	9758	[6411, 9873]
2121	[3633, 949]	4667	[6612, 6613]	7213	[8691, 8692]	9759	[10013, 8773]
2122	[3634, 3635]	4668	[6614, 6615]	7214	[5667, 625]	9760	[8909, 8512]
2123	[3636, 3637]	4669	[795, 6299]	7215	[8693, 8694]	9761	[10014, 8752]
2124	[3638, 3639]	4670	[2272, 6247]	7216	[8695, 585]	9762	[3034, 8827]
2125	[3640, 3641]	4671	[6616, 6617]	7217	[542, 5816]	9763	[10015, 5252]
2126	[3642, 3643]	4672	[6618, 2270]	7218	[727, 2835]	9764	[9944, 10016]
2127	[3644, 3645]	4673	[6619, 6620]	7219	[4962, 8696]	9765	[2477, 6524]
2128	[3554, 3646]	4674	[6621, 5368]	7220	[6168, 8697]	9766	[10017, 5052]
2129	[3647, 3648]	4675	[788, 6622]	7221	[6514, 697]	9767	[6104, 8811]
2130	[3649, 3650]	4676	[611, 2262]	7222	[1784, 8698]	9768	[8657, 8523]
2131	[3651, 3652]	4677	[5436, 6623]	7223	[8699, 8700]	9769	[2338, 5719]
2132	[1093, 3083]	4678	[186, 6624]	7224	[6255, 8701]	9770	[2687, 3027]
2133	[3653, 3654]	4679	[6625, 6571]	7225	[8702, 526]	9771	[5990, 6493]
2134	[3655, 3656]	4680	[6626, 6627]	7226	[8703, 1959]	9772	[5917, 6318]
2135	[1265, 3657]	4681	[2799, 6628]	7227	[6325, 6494]	9773	[4890, 9856]
2136	[3658, 3659]	4682	[2792, 6629]	7228	[6321, 2298]	9774	[8713, 1992]
2137	[3660, 3661]	4683	[6538, 5094]	7229	[4887, 5528]	9775	[2470, 2936]
2138	[3662, 3663]	4684	[6630, 5579]	7230	[8432, 844]	9776	[5099, 227]
2139	[3216, 3664]	4685	[2287, 3002]	7231	[8704, 6683]	9777	[2432, 2728]
2140	[3665, 3666]	4686	[6069, 6631]	7232	[8620, 2250]	9778	[10018, 9947]
2141	[3667, 1455]	4687	[6632, 6142]	7233	[5823, 8705]	9779	[10019, 10020]
2142	[3668, 1727]	4688	[2540, 4913]	7234	[8706, 5619]	9780	[8641, 9217]
2143	[1046, 3357]	4689	[6633, 549]	7235	[8707, 8516]	9781	[10021, 5267]
2144	[3669, 3670]	4690	[6634, 6328]	7236	[8708, 933]	9782	[9099, 9068]
2145	[3671, 429]	4691	[6635, 6636]	7237	[5723, 2996]	9783	[10022, 9216]
2146	[3672, 1167]	4692	[6637, 6638]	7238	[4879, 5921]	9784	[2081, 10023]
2147	[3673, 1242]	4693	[2895, 6272]	7239	[8709, 8710]	9785	[8859, 678]
2148	[3674, 3675]	4694	[5825, 6639]	7240	[8711, 5955]	9786	[5388, 754]
2149	[3676, 3677]	4695	[2738, 5552]	7241	[8712, 8713]	9787	[6696, 561]
2150	[296, 3678]	4696	[6640, 2957]	7242	[8714, 2887]	9788	[6710, 5982]
2151	[3679, 3680]	4697	[716, 6641]	7243	[5863, 2076]	9789	[5596, 5636]
2152	[3153, 3681]	4698	[6472, 6642]	7244	[235, 182]	9790	[10024, 5569]
2153	[275, 1553]	4699	[2050, 2224]	7245	[8607, 5055]	9791	[8934, 5005]
2154	[402, 3571]	4700	[5456, 6643]	7246	[5576, 8715]	9792	[10025, 6222]
2155	[1455, 3682]	4701	[6644, 5018]	7247	[1887, 617]	9793	[6131, 5988]
2156	[3683, 3684]	4702	[6645, 6646]	7248	[8716, 2563]	9794	[8769, 2619]
2157	[3685, 1393]	4703	[6647, 2517]	7249	[8717, 5812]	9795	[6564, 2044]
2158	[3686, 3687]	4704	[6648, 2473]	7250	[5819, 8718]	9796	[9180, 2713]
2159	[3323, 3193]	4705	[6649, 5669]	7251	[8719, 8700]	9797	[5136, 2536]
2160	[3688, 3689]	4706	[2115, 5008]	7252	[8720, 2547]	9798	[10026, 10027]
2161	[3690, 3615]	4707	[5009, 6650]	7253	[8721, 6353]	9799	[2841, 6534]
2162	[3691, 3692]	4708	[6651, 2572]	7254	[5143, 2367]	9800	[10028, 8461]
2163	[3693, 3694]	4709	[6652, 1941]	7255	[2276, 925]	9801	[10029, 2523]

2164	[3695, 3696]	4710	[6653, 6349]	7256	[8478, 5573]	9802	[6462, 8939]
2165	[3697, 3698]	4711	[710, 4872]	7257	[4870, 5591]	9803	[1863, 2642]
2166	[3699, 3700]	4712	[6654, 2826]	7258	[8492, 1800]	9804	[6153, 10030]
2167	[1202, 1233]	4713	[5630, 6096]	7259	[8722, 8723]	9805	[9111, 6557]
2168	[3701, 3702]	4714	[6655, 6021]	7260	[8724, 8725]	9806	[10031, 5141]
2169	[3703, 3515]	4715	[6656, 6657]	7261	[515, 803]	9807	[10032, 9882]
2170	[3704, 3316]	4716	[6562, 5026]	7262	[8726, 546]	9808	[2950, 9173]
2171	[381, 3705]	4717	[6419, 6658]	7263	[4874, 4892]	9809	[10033, 5947]
2172	[3251, 3706]	4718	[6659, 6660]	7264	[8727, 6443]	9810	[10034, 2798]
2173	[3707, 3708]	4719	[6661, 6662]	7265	[8728, 8557]	9811	[8511, 8910]
2174	[1623, 3631]	4720	[6663, 6664]	7266	[8729, 8730]	9812	[9181, 2507]
2175	[401, 3709]	4721	[6665, 2914]	7267	[5907, 5014]	9813	[4828, 2796]
2176	[1550, 1725]	4722	[6666, 6667]	7268	[8731, 2170]	9814	[8543, 6265]
2177	[3710, 3711]	4723	[6668, 6669]	7269	[4875, 2955]	9815	[6361, 10035]
2178	[3712, 3713]	4724	[676, 5271]	7270	[58, 8732]	9816	[5434, 10036]
2179	[3714, 3715]	4725	[6670, 5243]	7271	[2173, 242]	9817	[6706, 1791]
2180	[3716, 3717]	4726	[2094, 6671]	7272	[2184, 2231]	9818	[5705, 1875]
2181	[3718, 3719]	4727	[6672, 6673]	7273	[8733, 8734]	9819	[10037, 2412]
2182	[3720, 3721]	4728	[6674, 6675]	7274	[5550, 8732]	9820	[6436, 9958]
2183	[3722, 1027]	4729	[4949, 140]	7275	[4847, 8735]	9821	[6103, 8891]
2184	[3723, 1009]	4730	[6676, 6222]	7276	[8736, 2805]	9822	[10038, 8879]
2185	[3724, 3329]	4731	[6677, 5892]	7277	[5803, 5554]	9823	[4824, 8390]
2186	[3725, 3726]	4732	[6327, 6678]	7278	[8479, 194]	9824	[10039, 5437]
2187	[992, 3727]	4733	[6679, 5739]	7279	[50, 712]	9825	[9117, 1951]
2188	[3728, 3729]	4734	[2023, 6680]	7280	[8674, 8737]	9826	[2396, 10040]
2189	[3730, 3731]	4735	[6681, 6176]	7281	[8738, 6476]	9827	[2305, 8404]
2190	[3732, 1567]	4736	[728, 6682]	7282	[8739, 5069]	9828	[10041, 5057]
2191	[374, 3733]	4737	[2668, 6683]	7283	[8740, 8442]	9829	[8922, 2026]
2192	[3734, 3735]	4738	[3039, 6684]	7284	[8741, 6464]	9830	[1952, 9974]
2193	[3736, 3737]	4739	[6685, 1979]	7285	[2007, 6227]	9831	[8697, 8339]
2194	[3738, 1423]	4740	[6686, 6687]	7286	[6663, 5697]	9832	[887, 2167]
2195	[3739, 3740]	4741	[6688, 6689]	7287	[5038, 8742]	9833	[5177, 8979]
2196	[3044, 3380]	4742	[5092, 6690]	7288	[8743, 5198]	9834	[2956, 10042]
2197	[3741, 1671]	4743	[6691, 6692]	7289	[5775, 8439]	9835	[6171, 2173]
2198	[3742, 3743]	4744	[2541, 6019]	7290	[5636, 8396]	9836	[10043, 1912]
2199	[3273, 3744]	4745	[6693, 2209]	7291	[8744, 8745]	9837	[10044, 3782]
2200	[3745, 3746]	4746	[907, 6694]	7292	[8746, 8747]	9838	[7304, 4321]
2201	[3747, 3748]	4747	[6091, 6695]	7293	[5439, 179]	9839	[9560, 3564]
2202	[3380, 3749]	4748	[6696, 6697]	7294	[2044, 8560]	9840	[7379, 3455]
2203	[3750, 3751]	4749	[6698, 6699]	7295	[8748, 2988]	9841	[1640, 10045]
2204	[3752, 3753]	4750	[6700, 2057]	7296	[5460, 8749]	9842	[9471, 3340]
2205	[3754, 3755]	4751	[1815, 6291]	7297	[8750, 5645]	9843	[1329, 9492]
2206	[3756, 3757]	4752	[4922, 6701]	7298	[3012, 6646]	9844	[3332, 10046]
2207	[1654, 3758]	4753	[6702, 6636]	7299	[8751, 5497]	9845	[10047, 1116]

2208	[3759, 3760]	4754	[6448, 5935]	7300	[5065, 8752]	9846	[9802, 7258]
2209	[3172, 3760]	4755	[6703, 6704]	7301	[8712, 8381]	9847	[7202, 8173]
2210	[3761, 3762]	4756	[131, 5574]	7302	[8753, 568]	9848	[10048, 8156]
2211	[3763, 3764]	4757	[6705, 6706]	7303	[8754, 8755]	9849	[4644, 270]
2212	[294, 3765]	4758	[1896, 6707]	7304	[712, 3016]	9850	[379, 6791]
2213	[3415, 3766]	4759	[5857, 2206]	7305	[6732, 6081]	9851	[8213, 7110]
2214	[3767, 3768]	4760	[6708, 6370]	7306	[1893, 2236]	9852	[7738, 8177]
2215	[3769, 3770]	4761	[5144, 6709]	7307	[4928, 8756]	9853	[6856, 4615]
2216	[3771, 3772]	4762	[5541, 782]	7308	[8561, 779]	9854	[7790, 4516]
2217	[3773, 3774]	4763	[6710, 6711]	7309	[8757, 5791]	9855	[10049, 7244]
2218	[1686, 361]	4764	[6712, 5481]	7310	[3007, 8758]	9856	[1407, 9677]
2219	[3775, 3776]	4765	[6713, 5179]	7311	[8759, 8760]	9857	[4549, 6826]
2220	[317, 3777]	4766	[6714, 6715]	7312	[2418, 8529]	9858	[10050, 3686]
2221	[3778, 86]	4767	[4945, 6550]	7313	[2816, 8761]	9859	[4275, 7703]
2222	[3779, 3780]	4768	[6716, 2247]	7314	[6372, 8762]	9860	[10051, 1401]
2223	[1301, 3781]	4769	[6717, 6718]	7315	[8763, 5119]	9861	[10052, 6847]
2224	[3150, 1195]	4770	[6719, 2093]	7316	[6248, 5096]	9862	[3212, 7491]
2225	[3782, 3783]	4771	[6720, 4846]	7317	[8603, 8764]	9863	[4281, 9328]
2226	[3784, 3785]	4772	[6721, 6439]	7318	[5831, 8765]	9864	[1136, 7091]
2227	[1669, 3786]	4773	[5761, 6722]	7319	[6001, 8766]	9865	[3539, 4488]
2228	[3787, 1540]	4774	[6213, 2041]	7320	[8767, 2419]	9866	[9724, 10053]
2229	[1279, 3788]	4775	[866, 2356]	7321	[8567, 2669]	9867	[4154, 3351]
2230	[1701, 3789]	4776	[5851, 2221]	7322	[758, 8761]	9868	[6848, 8172]
2231	[3790, 3791]	4777	[1895, 2959]	7323	[8355, 2251]	9869	[10054, 7336]
2232	[3792, 1184]	4778	[1846, 43]	7324	[2067, 8768]	9870	[9399, 1524]
2233	[1257, 3793]	4779	[6447, 6723]	7325	[5281, 6752]	9871	[7985, 3123]
2234	[3794, 3795]	4780	[6724, 2990]	7326	[2061, 2570]	9872	[1415, 10055]
2235	[3796, 1413]	4781	[6725, 6726]	7327	[8769, 8629]	9873	[1158, 3888]
2236	[1644, 1637]	4782	[6727, 563]	7328	[8770, 8447]	9874	[3930, 10056]
2237	[3797, 3798]	4783	[6728, 6729]	7329	[2922, 8771]	9875	[8093, 8275]
2238	[3469, 3799]	4784	[6393, 6730]	7330	[8772, 8487]	9876	[10057, 4737]
2239	[3640, 3800]	4785	[6731, 5342]	7331	[5646, 2596]	9877	[7376, 1058]
2240	[23, 3801]	4786	[5508, 5316]	7332	[8773, 8774]	9878	[10058, 3412]
2241	[3802, 3803]	4787	[6732, 2427]	7333	[8775, 150]	9879	[10059, 7345]
2242	[3804, 999]	4788	[6733, 6025]	7334	[8776, 2562]	9880	[10060, 3462]
2243	[3805, 1630]	4789	[6734, 5361]	7335	[6237, 2838]	9881	[3418, 10061]
2244	[3555, 3806]	4790	[6668, 6735]	7336	[8632, 8777]	9882	[8296, 1351]
2245	[3244, 3625]	4791	[6736, 2357]	7337	[2473, 2197]	9883	[3110, 4125]
2246	[3807, 3808]	4792	[5325, 6737]	7338	[8778, 8779]	9884	[3931, 10062]
2247	[3809, 3810]	4793	[6738, 789]	7339	[8411, 5576]	9885	[9787, 1222]
2248	[3811, 1626]	4794	[2645, 5182]	7340	[8780, 8781]	9886	[10063, 8086]
2249	[3812, 3714]	4795	[723, 2003]	7341	[5736, 8471]	9887	[7385, 1120]
2250	[3813, 3145]	4796	[914, 6739]	7342	[8782, 6111]	9888	[7366, 3100]
2251	[3814, 3815]	4797	[6740, 2398]	7343	[5231, 8432]	9889	[10064, 1333]

2252	[3816, 3817]	4798	[2236, 6741]	7344	[6246, 5728]	9890	[329, 7478]
2253	[3818, 3819]	4799	[2281, 6167]	7345	[8506, 4965]	9891	[4239, 4038]
2254	[3820, 3821]	4800	[5927, 922]	7346	[8783, 6276]	9892	[10065, 9781]
2255	[3822, 1620]	4801	[2757, 2869]	7347	[8559, 2045]	9893	[10066, 4036]
2256	[3823, 3824]	4802	[2779, 6742]	7348	[8784, 6295]	9894	[7050, 3837]
2257	[3825, 3826]	4803	[6743, 3033]	7349	[8448, 56]	9895	[7809, 1329]
2258	[3827, 3048]	4804	[6471, 4974]	7350	[8785, 8537]	9896	[9341, 6914]
2259	[3828, 3795]	4805	[6744, 5611]	7351	[5364, 2783]	9897	[10067, 3158]
2260	[3829, 3830]	4806	[5457, 6745]	7352	[8786, 5471]	9898	[10068, 9343]
2261	[3831, 3832]	4807	[6746, 6747]	7353	[868, 219]	9899	[9442, 1695]
2262	[3833, 1561]	4808	[5559, 5363]	7354	[5269, 8787]	9900	[8052, 4463]
2263	[3834, 3835]	4809	[2663, 4824]	7355	[6031, 887]	9901	[3233, 7854]
2264	[1056, 3836]	4810	[782, 6748]	7356	[6449, 8377]	9902	[10069, 4078]
2265	[3837, 3573]	4811	[6749, 6750]	7357	[8788, 8789]	9903	[7620, 3599]
2266	[3838, 3839]	4812	[6751, 6752]	7358	[8790, 4936]	9904	[8205, 7268]
2267	[3840, 3841]	4813	[2567, 2991]	7359	[8417, 8791]	9905	[8173, 10061]
2268	[1003, 3842]	4814	[2013, 2096]	7360	[1972, 8792]	9906	[7179, 1622]
2269	[3843, 3844]	4815	[6552, 2774]	7361	[677, 5449]	9907	[10070, 1480]
2270	[1609, 3845]	4816	[6753, 6754]	7362	[2780, 8793]	9908	[9740, 65]
2271	[3846, 3847]	4817	[6755, 753]	7363	[8794, 631]	9909	[1032, 1442]
2272	[3848, 3849]	4818	[5328, 6756]	7364	[8693, 8795]	9910	[448, 1097]
2273	[3185, 3850]	4819	[2503, 2522]	7365	[8796, 5173]	9911	[7685, 1232]
2274	[3851, 3852]	4820	[6540, 2591]	7366	[6713, 2678]	9912	[10071, 10072]
2275	[3853, 3742]	4821	[6757, 4146]	7367	[8797, 5537]	9913	[10073, 4043]
2276	[3854, 3855]	4822	[6758, 3454]	7368	[2745, 8538]	9914	[10074, 7234]
2277	[3856, 1330]	4823	[6759, 3558]	7369	[528, 4903]	9915	[412, 6799]
2278	[3857, 3858]	4824	[6760, 6761]	7370	[3039, 6629]	9916	[10075, 9831]
2279	[3859, 3860]	4825	[6762, 4174]	7371	[2446, 8798]	9917	[10076, 10077]
2280	[3861, 3785]	4826	[1129, 6763]	7372	[6496, 686]	9918	[9691, 3095]
2281	[3091, 3862]	4827	[6764, 6765]	7373	[8349, 8799]	9919	[3486, 10078]
2282	[3863, 3864]	4828	[962, 3681]	7374	[8800, 224]	9920	[10079, 6841]
2283	[1169, 3865]	4829	[93, 6766]	7375	[8801, 1912]	9921	[4076, 4192]
2284	[70, 3307]	4830	[6767, 1400]	7376	[5671, 8802]	9922	[3544, 10080]
2285	[3866, 3867]	4831	[6768, 966]	7377	[11, 1765]	9923	[4057, 9822]
2286	[3719, 3868]	4832	[6769, 4329]	7378	[8803, 1769]	9924	[3322, 3426]
2287	[3869, 3183]	4833	[69, 3306]	7379	[8804, 8737]	9925	[1575, 7787]
2288	[1148, 3870]	4834	[3042, 1371]	7380	[8805, 2882]	9926	[10081, 7959]
2289	[3871, 3622]	4835	[6770, 269]	7381	[5094, 8806]	9927	[10082, 10083]
2290	[1191, 453]	4836	[1700, 6771]	7382	[8807, 8776]	9928	[382, 9555]
2291	[3872, 3873]	4837	[6772, 4655]	7383	[8808, 8809]	9929	[3888, 7183]
2292	[3874, 3875]	4838	[6773, 3938]	7384	[202, 2064]	9930	[4337, 3475]
2293	[3593, 3414]	4839	[6774, 3699]	7385	[8810, 5280]	9931	[362, 8191]
2294	[3876, 3877]	4840	[4104, 4326]	7386	[8811, 138]	9932	[7505, 8166]
2295	[1707, 3055]	4841	[1712, 3729]	7387	[183, 4928]	9933	[10084, 3606]

2296	[3878, 365]	4842	[6775, 6776]	7388	[2016, 1860]	9934	[4426, 10085]
2297	[3879, 3880]	4843	[1635, 6777]	7389	[8812, 8813]	9935	[10086, 3578]
2298	[437, 3881]	4844	[6778, 3904]	7390	[5356, 8814]	9936	[10087, 9509]
2299	[3501, 3882]	4845	[6779, 4818]	7391	[8815, 8816]	9937	[10088, 7439]
2300	[3883, 3884]	4846	[6780, 979]	7392	[6724, 2567]	9938	[9500, 9665]
2301	[3885, 3886]	4847	[3545, 1053]	7393	[5808, 6176]	9939	[8039, 10089]
2302	[3887, 3888]	4848	[6781, 6782]	7394	[6659, 8817]	9940	[3467, 298]
2303	[1469, 3889]	4849	[4086, 3626]	7395	[5973, 8818]	9941	[10090, 8298]
2304	[3890, 3891]	4850	[6783, 1748]	7396	[8819, 2771]	9942	[7837, 10091]
2305	[3892, 1527]	4851	[6778, 6784]	7397	[2175, 6540]	9943	[7699, 7624]
2306	[3893, 3894]	4852	[6785, 118]	7398	[8740, 1878]	9944	[4818, 4277]
2307	[3895, 3896]	4853	[6786, 6787]	7399	[2825, 8820]	9945	[945, 7104]
2308	[3897, 3125]	4854	[6788, 6789]	7400	[5005, 6151]	9946	[10092, 9679]
2309	[3898, 3050]	4855	[4568, 6790]	7401	[5653, 8821]	9947	[4466, 8167]
2310	[3899, 278]	4856	[4449, 6791]	7402	[6753, 6704]	9948	[10093, 1469]
2311	[3900, 3901]	4857	[3551, 4416]	7403	[8822, 6186]	9949	[3622, 3634]
2312	[3902, 3497]	4858	[6792, 1142]	7404	[8823, 6305]	9950	[1704, 8037]
2313	[3903, 3904]	4859	[6793, 6794]	7405	[8623, 2707]	9951	[8125, 10094]
2314	[3905, 3906]	4860	[1680, 4343]	7406	[8824, 2180]	9952	[10095, 961]
2315	[3907, 3908]	4861	[6795, 1635]	7407	[8825, 2119]	9953	[10071, 10096]
2316	[3909, 3862]	4862	[6796, 6797]	7408	[8826, 8827]	9954	[6994, 4505]
2317	[3910, 3911]	4863	[3237, 3554]	7409	[790, 2681]	9955	[3583, 7773]
2318	[3912, 3837]	4864	[3888, 6798]	7410	[2485, 8315]	9956	[4624, 10097]
2319	[3913, 3914]	4865	[6799, 6800]	7411	[5427, 8828]	9957	[7112, 4440]
2320	[3583, 3915]	4866	[4123, 6801]	7412	[8829, 6168]	9958	[10098, 3809]
2321	[3916, 3241]	4867	[6802, 4396]	7413	[4932, 1907]	9959	[10099, 6986]
2322	[3779, 3917]	4868	[3713, 3140]	7414	[6340, 4967]	9960	[1009, 8226]
2323	[3595, 3918]	4869	[6803, 6804]	7415	[8830, 2216]	9961	[485, 9628]
2324	[3919, 3920]	4870	[6805, 6806]	7416	[8831, 8832]	9962	[10100, 7838]
2325	[3921, 3922]	4871	[6807, 324]	7417	[2807, 6066]	9963	[7705, 3983]
2326	[3923, 3924]	4872	[3852, 3297]	7418	[8833, 5807]	9964	[9770, 10101]
2327	[3925, 3926]	4873	[4304, 123]	7419	[8834, 8755]	9965	[8156, 10102]
2328	[3927, 3928]	4874	[4726, 6808]	7420	[631, 8835]	9966	[10103, 3932]
2329	[3929, 3930]	4875	[3397, 3550]	7421	[8836, 8837]	9967	[7011, 260]
2330	[3931, 3932]	4876	[6809, 3841]	7422	[1897, 5361]	9968	[3955, 1095]
2331	[1548, 3933]	4877	[3482, 6810]	7423	[5516, 8838]	9969	[4062, 3049]
2332	[3934, 3439]	4878	[6811, 6812]	7424	[8839, 597]	9970	[7542, 10104]
2333	[3935, 3936]	4879	[6813, 4235]	7425	[6740, 8840]	9971	[3894, 4290]
2334	[3937, 3873]	4880	[6814, 6815]	7426	[6147, 8841]	9972	[3382, 7773]
2335	[3938, 3939]	4881	[6816, 3309]	7427	[5187, 2747]	9973	[9652, 7772]
2336	[3940, 3941]	4882	[3396, 329]	7428	[2213, 553]	9974	[10081, 8181]
2337	[3942, 1333]	4883	[3742, 1287]	7429	[5372, 8842]	9975	[4410, 3687]
2338	[3943, 1080]	4884	[4450, 3118]	7430	[8480, 6294]	9976	[4805, 8024]
2339	[3944, 3945]	4885	[6817, 4398]	7431	[5786, 2856]	9977	[10105, 9675]

2340	[3946, 3947]	4886	[6818, 6819]	7432	[6144, 817]	9978	[6967, 1010]
2341	[3388, 3516]	4887	[4468, 3744]	7433	[8843, 8809]	9979	[10106, 9769]
2342	[1189, 3948]	4888	[4723, 3860]	7434	[8467, 8844]	9980	[7754, 10107]
2343	[1248, 3949]	4889	[6820, 1407]	7435	[5166, 8845]	9981	[4536, 7784]
2344	[3950, 3951]	4890	[3182, 6821]	7436	[8472, 6567]	9982	[491, 1538]
2345	[3952, 3953]	4891	[6822, 4172]	7437	[5152, 8392]	9983	[9835, 9631]
2346	[3954, 3955]	4892	[6823, 3267]	7438	[6012, 8846]	9984	[3218, 7558]
2347	[3956, 3957]	4893	[4103, 6824]	7439	[8847, 6593]	9985	[6902, 7554]
2348	[3958, 3959]	4894	[6825, 6826]	7440	[2200, 8848]	9986	[7566, 4524]
2349	[3960, 3615]	4895	[6827, 3435]	7441	[6100, 8652]	9987	[10108, 9389]
2350	[3961, 3442]	4896	[6828, 6829]	7442	[2643, 6314]	9988	[4628, 6829]
2351	[3962, 1342]	4897	[6830, 4515]	7443	[6281, 5359]	9989	[6904, 7309]
2352	[1341, 3963]	4898	[6831, 3770]	7444	[2234, 5560]	9990	[10109, 1040]
2353	[3964, 1501]	4899	[6770, 6832]	7445	[8849, 1951]	9991	[10110, 4217]
2354	[3965, 27]	4900	[6833, 6834]	7446	[2426, 6081]	9992	[4213, 9639]
2355	[3966, 3967]	4901	[6835, 6836]	7447	[4910, 8850]	9993	[3295, 4469]
2356	[3968, 3969]	4902	[1444, 6837]	7448	[2373, 8851]	9994	[1097, 10111]
2357	[3970, 3971]	4903	[6838, 3104]	7449	[8852, 2007]	9995	[7422, 10112]
2358	[3693, 1709]	4904	[6839, 3210]	7450	[5638, 5781]	9996	[4177, 8152]
2359	[1683, 3972]	4905	[3179, 6840]	7451	[6621, 714]	9997	[4132, 10113]
2360	[3973, 3974]	4906	[6841, 4527]	7452	[4840, 5372]	9998	[10114, 3817]
2361	[3975, 3976]	4907	[1521, 4446]	7453	[8853, 5558]	9999	[7580, 7424]
2362	[3977, 3978]	4908	[6842, 3832]	7454	[5291, 6650]	10000	[3456, 6845]
2363	[3979, 3980]	4909	[4752, 6843]	7455	[6295, 6035]	10001	[8201, 8278]
2364	[3981, 3982]	4910	[6844, 6845]	7456	[8854, 8464]	10002	[3876, 10112]
2365	[3983, 3591]	4911	[6846, 4571]	7457	[5554, 2654]	10003	[3420, 9618]
2366	[3984, 3985]	4912	[6847, 6848]	7458	[8855, 5439]	10004	[1449, 7632]
2367	[3986, 3987]	4913	[6849, 3392]	7459	[8856, 2717]	10005	[7149, 9754]
2368	[3705, 3105]	4914	[6850, 3762]	7460	[1951, 5522]	10006	[9439, 10078]
2369	[3988, 3989]	4915	[1233, 4820]	7461	[5188, 758]	10007	[1561, 10115]
2370	[3990, 3991]	4916	[6851, 6852]	7462	[2675, 191]	10008	[1549, 10116]
2371	[3992, 3696]	4917	[6853, 958]	7463	[3038, 2599]	10009	[9777, 7478]
2372	[3220, 3993]	4918	[6854, 1672]	7464	[8615, 6294]	10010	[449, 10111]
2373	[3994, 3995]	4919	[3960, 6855]	7465	[2294, 8857]	10011	[7457, 1569]
2374	[3996, 3997]	4920	[4614, 4235]	7466	[711, 2701]	10012	[4691, 1431]
2375	[977, 3998]	4921	[1647, 483]	7467	[2730, 2429]	10013	[10117, 9399]
2376	[3999, 3286]	4922	[6856, 3446]	7468	[5247, 2669]	10014	[7757, 7924]
2377	[4000, 4001]	4923	[6857, 4647]	7469	[8858, 6177]	10015	[4171, 7781]
2378	[3996, 4002]	4924	[6858, 6859]	7470	[6386, 6449]	10016	[10118, 6776]
2379	[4003, 4004]	4925	[6860, 4079]	7471	[4911, 6151]	10017	[4773, 9760]
2380	[3723, 1713]	4926	[6861, 6862]	7472	[1957, 2201]	10018	[9687, 10107]
2381	[4005, 4006]	4927	[6863, 1197]	7473	[5290, 8859]	10019	[9816, 7835]
2382	[3252, 4007]	4928	[6864, 4189]	7474	[8860, 8813]	10020	[10119, 10120]
2383	[4008, 4009]	4929	[3645, 6865]	7475	[2903, 6381]	10021	[8242, 3484]

2384	[4010, 4011]	4930	[6866, 6867]	7476	[8861, 2738]	10022	[308, 10121]
2385	[4012, 4013]	4931	[6868, 3298]	7477	[6558, 8862]	10023	[10122, 8054]
2386	[1312, 3793]	4932	[3384, 1355]	7478	[8863, 6278]	10024	[259, 6763]
2387	[4014, 1062]	4933	[3305, 6869]	7479	[8864, 4898]	10025	[3434, 9403]
2388	[1625, 4015]	4934	[4499, 3737]	7480	[8865, 8866]	10026	[7501, 6887]
2389	[4016, 1092]	4935	[6870, 6871]	7481	[5371, 4841]	10027	[10123, 10124]
2390	[4017, 4018]	4936	[6872, 3935]	7482	[8509, 685]	10028	[9412, 10049]
2391	[4019, 4020]	4937	[3229, 6873]	7483	[8867, 8868]	10029	[10075, 4069]
2392	[4021, 4022]	4938	[1054, 3464]	7484	[8869, 8870]	10030	[4127, 8159]
2393	[4023, 3913]	4939	[3505, 4401]	7485	[5445, 908]	10031	[3136, 9465]
2394	[4024, 4025]	4940	[4762, 6874]	7486	[5615, 5663]	10032	[7139, 8005]
2395	[4026, 4027]	4941	[3846, 6875]	7487	[8871, 8872]	10033	[3547, 9782]
2396	[3404, 4028]	4942	[3303, 6876]	7488	[8873, 8874]	10034	[1512, 8238]
2397	[107, 1184]	4943	[4200, 4528]	7489	[8875, 2308]	10035	[8186, 3292]
2398	[4029, 4030]	4944	[6877, 6878]	7490	[5906, 6162]	10036	[1743, 7086]
2399	[4031, 4032]	4945	[6879, 6880]	7491	[5248, 2670]	10037	[1630, 4053]
2400	[258, 3906]	4946	[6881, 6882]	7492	[2117, 2576]	10038	[1667, 7690]
2401	[4033, 4034]	4947	[6883, 3637]	7493	[8876, 5302]	10039	[3145, 1538]
2402	[4035, 4036]	4948	[6884, 6885]	7494	[1870, 6365]	10040	[10125, 4673]
2403	[3177, 3854]	4949	[1208, 6886]	7495	[2177, 8877]	10041	[7639, 3764]
2404	[4037, 1377]	4950	[3764, 6887]	7496	[1935, 8697]	10042	[10126, 8234]
2405	[3983, 4038]	4951	[6888, 3680]	7497	[8825, 2972]	10043	[9746, 3310]
2406	[4039, 4040]	4952	[3328, 6889]	7498	[4889, 8555]	10044	[10127, 2198]
2407	[4041, 3709]	4953	[3507, 6873]	7499	[8878, 8879]	10045	[6513, 6063]
2408	[4042, 4043]	4954	[6890, 3049]	7500	[8880, 43]	10046	[10128, 2840]
2409	[1081, 4044]	4955	[6891, 1019]	7501	[6727, 5184]	10047	[2214, 6512]
2410	[4045, 3648]	4956	[6847, 6892]	7502	[8881, 5831]	10048	[9842, 9045]
2411	[4046, 4047]	4957	[6893, 6894]	7503	[8882, 8883]	10049	[5941, 6384]
2412	[4048, 4049]	4958	[6895, 4280]	7504	[6216, 5264]	10050	[5504, 6334]
2413	[4050, 4051]	4959	[6896, 6897]	7505	[2837, 8884]	10051	[5524, 6203]
2414	[4052, 4053]	4960	[1194, 6898]	7506	[141, 2302]	10052	[5567, 8423]
2415	[4054, 4055]	4961	[6899, 3934]	7507	[2322, 6680]	10053	[4979, 4881]
2416	[4056, 4057]	4962	[6900, 6901]	7508	[8885, 5127]	10054	[10129, 9913]
2417	[4058, 4059]	4963	[6902, 6903]	7509	[5308, 8886]	10055	[10130, 8537]
2418	[30, 3248]	4964	[3255, 4160]	7510	[6597, 5769]	10056	[10131, 9966]
2419	[4060, 4061]	4965	[6904, 6905]	7511	[8887, 2999]	10057	[6341, 693]
2420	[4062, 3898]	4966	[4579, 4322]	7512	[2223, 8888]	10058	[34, 9303]
2421	[4063, 4064]	4967	[6906, 3355]	7513	[6230, 1779]	10059	[10132, 2938]
2422	[4065, 4066]	4968	[6907, 3098]	7514	[8334, 6359]	10060	[9214, 8610]
2423	[4067, 4068]	4969	[6908, 6909]	7515	[8889, 8890]	10061	[10133, 4830]
2424	[1176, 1631]	4970	[4250, 6910]	7516	[934, 8891]	10062	[10134, 6355]
2425	[4069, 4070]	4971	[6911, 1366]	7517	[8892, 565]	10063	[700, 2374]
2426	[4071, 4072]	4972	[6912, 6913]	7518	[8893, 6575]	10064	[2629, 1837]
2427	[4073, 4074]	4973	[6914, 6915]	7519	[8894, 8832]	10065	[8346, 6507]

2428	[4075, 4076]	4974	[4115, 4439]	7520	[2108, 6304]	10066	[8748, 10135]
2429	[4077, 4078]	4975	[286, 6916]	7521	[1888, 5538]	10067	[688, 10016]
2430	[4079, 4080]	4976	[6917, 6918]	7522	[6632, 2828]	10068	[6105, 6095]
2431	[4081, 4082]	4977	[6919, 4294]	7523	[8856, 5797]	10069	[5773, 2986]
2432	[4083, 1445]	4978	[4716, 6920]	7524	[6693, 4919]	10070	[1799, 8493]
2433	[4084, 4085]	4979	[3506, 3229]	7525	[8376, 8895]	10071	[9162, 6444]
2434	[4086, 4087]	4980	[3935, 6921]	7526	[8896, 8897]	10072	[10136, 2520]
2435	[4088, 4082]	4981	[6922, 6923]	7527	[8898, 5445]	10073	[6445, 10137]
2436	[4089, 4090]	4982	[3879, 6924]	7528	[2829, 1921]	10074	[5226, 9885]
2437	[4091, 3392]	4983	[336, 4189]	7529	[8899, 8900]	10075	[5422, 2032]
2438	[4092, 1463]	4984	[6925, 4797]	7530	[8901, 8902]	10076	[8713, 9069]
2439	[4093, 4094]	4985	[6926, 6927]	7531	[2399, 8576]	10077	[6617, 9103]
2440	[4095, 4096]	4986	[6928, 353]	7532	[8739, 5838]	10078	[10138, 8640]
2441	[4097, 4098]	4987	[6929, 1167]	7533	[8903, 5052]	10079	[2270, 8709]
2442	[4099, 3824]	4988	[6930, 6931]	7534	[8904, 8905]	10080	[10139, 5023]
2443	[4100, 4101]	4989	[6932, 3260]	7535	[6557, 2312]	10081	[5253, 9015]
2444	[3358, 4102]	4990	[6933, 6934]	7536	[2309, 8906]	10082	[6008, 10012]
2445	[4103, 1368]	4991	[6935, 1227]	7537	[8907, 1806]	10083	[10140, 10141]
2446	[4104, 4105]	4992	[1033, 1443]	7538	[8908, 6454]	10084	[5781, 4867]
2447	[1053, 3162]	4993	[70, 6936]	7539	[8909, 8910]	10085	[10142, 6275]
2448	[4106, 1249]	4994	[6937, 6938]	7540	[8911, 8912]	10086	[8904, 9854]
2449	[3168, 1666]	4995	[6939, 6843]	7541	[2202, 5665]	10087	[8533, 9268]
2450	[1532, 4107]	4996	[6940, 4029]	7542	[2389, 6658]	10088	[2446, 2934]
2451	[4108, 4109]	4997	[1362, 6941]	7543	[8913, 4998]	10089	[9313, 6737]
2452	[3332, 4110]	4998	[3610, 6862]	7544	[6549, 4946]	10090	[2388, 6419]
2453	[4111, 4112]	4999	[6942, 6943]	7545	[8357, 8914]	10091	[10143, 2093]
2454	[4113, 4114]	5000	[27, 4682]	7546	[8721, 6051]	10092	[5931, 8359]
2455	[4115, 4116]	5001	[3508, 4676]	7547	[8915, 572]	10093	[2820, 10023]
2456	[4117, 4118]	5002	[6944, 6945]	7548	[4921, 5770]	10094	[10144, 9265]
2457	[4119, 4120]	5003	[6946, 6947]	7549	[2854, 5989]	10095	[9157, 8970]
2458	[4121, 4030]	5004	[6816, 6948]	7550	[2315, 532]	10096	[6189, 4945]
2459	[441, 4122]	5005	[6949, 433]	7551	[2275, 5584]	10097	[10145, 6302]
2460	[4123, 1315]	5006	[6950, 4807]	7552	[8916, 6002]	10098	[10146, 10011]
2461	[4124, 4125]	5007	[6951, 258]	7553	[8917, 8918]	10099	[852, 8749]
2462	[4126, 4127]	5008	[1645, 1124]	7554	[6717, 5815]	10100	[842, 6152]
2463	[4128, 4129]	5009	[6952, 267]	7555	[8919, 2242]	10101	[10147, 8743]
2464	[3849, 1106]	5010	[6953, 6954]	7556	[8920, 8921]	10102	[8577, 5627]
2465	[3850, 3519]	5011	[6955, 6956]	7557	[8443, 8922]	10103	[6306, 4862]
2466	[3654, 273]	5012	[3703, 3388]	7558	[8923, 822]	10104	[10148, 6408]
2467	[1080, 472]	5013	[6957, 1048]	7559	[2457, 2039]	10105	[9132, 5208]
2468	[4130, 4131]	5014	[6958, 6959]	7560	[8924, 2913]	10106	[8940, 5838]
2469	[3929, 1457]	5015	[385, 1513]	7561	[8925, 8694]	10107	[10149, 9195]
2470	[3371, 4132]	5016	[6960, 6961]	7562	[8926, 8824]	10108	[9232, 6018]
2471	[4133, 4134]	5017	[1512, 6962]	7563	[8865, 4908]	10109	[10146, 816]

2472	[4135, 3741]	5018	[6963, 6964]	7564	[8927, 8928]	10110	[6616, 9102]
2473	[1107, 4136]	5019	[3785, 4813]	7565	[8929, 8930]	10111	[10150, 5827]
2474	[1443, 4137]	5020	[6965, 4278]	7566	[206, 1833]	10112	[6304, 8831]
2475	[4138, 1499]	5021	[6966, 6967]	7567	[8931, 733]	10113	[10151, 6456]
2476	[4139, 4140]	5022	[4398, 6836]	7568	[2613, 5350]	10114	[5423, 8587]
2477	[4141, 4142]	5023	[6968, 1005]	7569	[8776, 6665]	10115	[10152, 6369]
2478	[464, 4143]	5024	[6969, 6970]	7570	[8932, 8933]	10116	[10153, 1776]
2479	[4144, 4145]	5025	[6971, 3712]	7571	[8934, 4911]	10117	[6241, 2707]
2480	[4146, 3894]	5026	[3125, 3675]	7572	[5098, 2217]	10118	[6749, 6687]
2481	[4147, 4148]	5027	[1415, 4746]	7573	[5825, 8341]	10119	[10154, 9167]
2482	[4149, 3433]	5028	[3714, 6972]	7574	[5516, 5625]	10120	[10155, 5546]
2483	[4150, 4151]	5029	[6973, 4681]	7575	[5883, 8935]	10121	[10156, 643]
2484	[4152, 4153]	5030	[6974, 124]	7576	[8936, 8937]	10122	[223, 2836]
2485	[4154, 1340]	5031	[3665, 6975]	7577	[8915, 8452]	10123	[10157, 8491]
2486	[1237, 4155]	5032	[6976, 6977]	7578	[8938, 133]	10124	[10158, 10159]
2487	[421, 1023]	5033	[6978, 6979]	7579	[3001, 2227]	10125	[2536, 9898]
2488	[1013, 4156]	5034	[1000, 6980]	7580	[5081, 1997]	10126	[5144, 2368]
2489	[4157, 1358]	5035	[3045, 1336]	7581	[6623, 5483]	10127	[10160, 3838]
2490	[4158, 4159]	5036	[4358, 6981]	7582	[5479, 663]	10128	[1007, 9731]
2491	[4160, 1285]	5037	[6982, 6983]	7583	[8485, 6404]	10129	[7479, 1726]
2492	[405, 4161]	5038	[6984, 4100]	7584	[1916, 8455]	10130	[8015, 7431]
2493	[4162, 4163]	5039	[4810, 1438]	7585	[2548, 5412]	10131	[64, 7683]
2494	[4164, 1436]	5040	[4698, 4657]	7586	[5050, 725]	10132	[9326, 7479]
2495	[443, 4165]	5041	[6985, 6986]	7587	[5180, 8939]	10133	[7831, 10077]
2496	[4166, 4167]	5042	[6987, 6904]	7588	[8940, 5069]	10134	[1597, 7805]
2497	[4168, 80]	5043	[3751, 6988]	7589	[6532, 8639]	10135	[10161, 8013]
2498	[4169, 3845]	5044	[6989, 1370]	7590	[2418, 2168]	10136	[108, 7130]
2499	[1678, 4170]	5045	[6990, 6991]	7591	[8941, 8942]	10137	[10162, 8085]
2500	[1354, 3385]	5046	[1333, 6992]	7592	[8943, 8944]	10138	[7882, 7913]
2501	[4171, 4172]	5047	[6993, 3794]	7593	[8945, 8946]	10139	[9700, 9498]
2502	[4173, 4174]	5048	[6994, 375]	7594	[6578, 5650]	10140	[9782, 9362]
2503	[3667, 4175]	5049	[1598, 446]	7595	[5066, 2245]	10141	[10163, 10164]
2504	[340, 1264]	5050	[3483, 6995]	7596	[5273, 6379]	10142	[3517, 7672]
2505	[1209, 4176]	5051	[6996, 6997]	7597	[8947, 6422]	10143	[7145, 9806]
2506	[4126, 4177]	5052	[6998, 4635]	7598	[6312, 8948]	10144	[8281, 10165]
2507	[4178, 4179]	5053	[6999, 7000]	7599	[8949, 5637]	10145	[3051, 9538]
2508	[3536, 4180]	5054	[7001, 7002]	7600	[1932, 2975]	10146	[7079, 7356]
2509	[4181, 4182]	5055	[7003, 7004]	7601	[8950, 8951]	10147	[7664, 9392]
2510	[4183, 4184]	5056	[3699, 7005]	7602	[2196, 8952]	10148	[7554, 7230]
2511	[4185, 3553]	5057	[7006, 4184]	7603	[2937, 8953]	10149	[4592, 10166]
2512	[4186, 1275]	5058	[7007, 4809]	7604	[5681, 8954]	10150	[318, 7264]
2513	[4175, 3682]	5059	[7008, 7009]	7605	[5139, 1802]	10151	[7395, 4205]
2514	[4187, 4188]	5060	[7010, 4073]	7606	[8955, 8956]	10152	[8078, 8233]
2515	[4189, 1284]	5061	[7011, 4576]	7607	[2650, 8957]	10153	[7664, 9812]

2516	[4190, 4057]	5062	[6830, 7012]	7608	[5189, 1891]	10154	[4149, 7599]
2517	[4191, 4192]	5063	[7013, 7014]	7609	[8958, 2059]	10155	[1427, 9703]
2518	[4193, 3901]	5064	[4492, 4666]	7610	[5618, 8959]	10156	[4306, 7560]
2519	[4194, 4195]	5065	[7015, 1104]	7611	[6412, 8960]	10157	[7288, 6992]
2520	[4196, 4197]	5066	[3679, 7016]	7612	[736, 1784]	10158	[9643, 7854]
2521	[4198, 1468]	5067	[104, 7017]	7613	[527, 8961]	10159	[10167, 10168]
2522	[4199, 3462]	5068	[7018, 1572]	7614	[8962, 3002]	10160	[10169, 5808]
2523	[4200, 4201]	5069	[7019, 1709]	7615	[6744, 1811]	10161	[6677, 2806]
2524	[3454, 4202]	5070	[7020, 348]	7616	[5983, 8963]	10162	[9281, 9227]
2525	[4203, 3536]	5071	[7021, 7022]	7617	[8964, 5732]	10163	[10170, 4839]
2526	[4204, 4205]	5072	[7023, 262]	7618	[8387, 2966]	10164	[10171, 6079]
2527	[4206, 1602]	5073	[4396, 7024]	7619	[8965, 2496]	10165	[575, 2604]
2528	[3321, 3425]	5074	[7025, 7026]	7620	[2236, 8466]	10166	[6199, 8951]
2529	[4207, 4208]	5075	[7027, 4163]	7621	[8966, 8967]	10167	[10172, 9991]
2530	[4209, 3815]	5076	[1404, 7028]	7622	[8968, 2461]	10168	[10173, 10174]
2531	[4210, 4211]	5077	[3115, 1474]	7623	[2741, 8969]	10169	[10175, 7955]
2532	[4212, 4213]	5078	[7029, 371]	7624	[8970, 6545]	10170	[7736, 7856]
2533	[4214, 4201]	5079	[7030, 7030]	7625	[8971, 6255]	10171	[3565, 457]
2534	[4215, 4076]	5080	[7031, 3338]	7626	[6425, 4944]	10172	[6930, 8098]
2535	[4216, 4217]	5081	[7032, 4637]	7627	[1909, 3028]	10173	[4634, 9801]
2536	[4218, 4219]	5082	[7033, 6957]	7628	[8462, 5110]	10174	[10176, 3524]
2537	[4220, 3551]	5083	[7034, 4595]	7629	[6380, 855]	10175	[10177, 5623]
2538	[1411, 4221]	5084	[7035, 3406]	7630	[8972, 2293]	10176	[184, 8756]
2539	[4222, 4223]	5085	[7036, 4501]	7631	[6476, 3000]	10177	[10178, 4620]
2540	[4224, 4225]	5086	[1507, 3532]	7632	[5655, 5937]	10178	[10179, 5720]
2541	[4226, 4098]	5087	[3752, 7037]	7633	[6522, 6422]	10179	[10180, 1532]
2542	[1073, 4227]	5088	[7038, 7039]	7634	[8973, 838]	10180	[10181, 2721]
2543	[4228, 3713]	5089	[7040, 7041]	7635	[2554, 2100]	10181	[15, 4452]
2544	[1026, 4229]	5090	[7042, 473]	7636	[8827, 6107]		
2545	[4230, 4231]	5091	[7043, 7044]	7637	[6505, 2792]		

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	1698	0	3396	0	5094	1	6792	0	8490	1
1	0	1699	0	3397	0	5095	0	6793	1	8491	1
2	0	1700	1	3398	1	5096	1	6794	0	8492	0
3	0	1701	0	3399	1	5097	0	6795	1	8493	0
4	0	1702	1	3400	1	5098	1	6796	0	8494	0
5	0	1703	1	3401	0	5099	0	6797	0	8495	0
6	0	1704	1	3402	0	5100	0	6798	0	8496	0
7	0	1705	0	3403	0	5101	0	6799	1	8497	1
8	0	1706	0	3404	1	5102	0	6800	1	8498	0
9	0	1707	1	3405	0	5103	1	6801	0	8499	0
10	0	1708	0	3406	0	5104	1	6802	1	8500	0

11	0	1709	1	3407	1	5105	1	6803	1	8501	0
12	1	1710	0	3408	1	5106	0	6804	0	8502	1
13	0	1711	0	3409	1	5107	0	6805	1	8503	0
14	1	1712	0	3410	1	5108	0	6806	0	8504	1
15	0	1713	1	3411	0	5109	0	6807	0	8505	0
16	1	1714	0	3412	0	5110	0	6808	0	8506	1
17	0	1715	0	3413	0	5111	1	6809	1	8507	1
18	0	1716	0	3414	0	5112	1	6810	0	8508	1
19	0	1717	0	3415	1	5113	1	6811	1	8509	1
20	1	1718	0	3416	1	5114	0	6812	1	8510	1
21	0	1719	1	3417	0	5115	0	6813	1	8511	1
22	1	1720	0	3418	0	5116	0	6814	1	8512	0
23	0	1721	1	3419	1	5117	0	6815	0	8513	1
24	1	1722	1	3420	0	5118	0	6816	0	8514	1
25	1	1723	0	3421	1	5119	0	6817	1	8515	0
26	1	1724	0	3422	0	5120	1	6818	1	8516	1
27	0	1725	0	3423	1	5121	0	6819	0	8517	1
28	1	1726	1	3424	0	5122	1	6820	0	8518	0
29	1	1727	1	3425	1	5123	1	6821	0	8519	0
30	0	1728	1	3426	0	5124	1	6822	1	8520	0
31	0	1729	1	3427	1	5125	1	6823	0	8521	1
32	0	1730	0	3428	1	5126	1	6824	0	8522	1
33	1	1731	1	3429	0	5127	1	6825	1	8523	0
34	1	1732	1	3430	1	5128	0	6826	1	8524	0
35	0	1733	1	3431	0	5129	1	6827	0	8525	0
36	0	1734	1	3432	1	5130	1	6828	0	8526	1
37	0	1735	0	3433	0	5131	0	6829	1	8527	1
38	1	1736	0	3434	1	5132	0	6830	0	8528	0
39	0	1737	0	3435	0	5133	1	6831	1	8529	0
40	0	1738	1	3436	1	5134	0	6832	0	8530	1
41	1	1739	1	3437	0	5135	1	6833	0	8531	0
42	0	1740	1	3438	1	5136	1	6834	0	8532	1
43	0	1741	0	3439	1	5137	1	6835	0	8533	1
44	0	1742	0	3440	0	5138	1	6836	1	8534	1
45	1	1743	0	3441	0	5139	1	6837	0	8535	1
46	1	1744	0	3442	1	5140	0	6838	0	8536	1
47	0	1745	1	3443	0	5141	0	6839	0	8537	1
48	1	1746	1	3444	1	5142	0	6840	0	8538	0
49	1	1747	0	3445	1	5143	0	6841	0	8539	0
50	0	1748	1	3446	0	5144	0	6842	1	8540	0
51	1	1749	0	3447	1	5145	0	6843	0	8541	1
52	1	1750	1	3448	1	5146	1	6844	0	8542	1
53	1	1751	0	3449	0	5147	0	6845	0	8543	1
54	1	1752	1	3450	1	5148	0	6846	1	8544	1

55	0	1753	0	3451	0	5149	0	6847	1	8545	1
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57	1	1755	1	3453	1	5151	1	6849	0	8547	1
58	1	1756	0	3454	0	5152	1	6850	0	8548	1
59	1	1757	1	3455	0	5153	1	6851	0	8549	1
60	0	1758	1	3456	1	5154	1	6852	0	8550	0
61	0	1759	1	3457	1	5155	1	6853	1	8551	1
62	0	1760	0	3458	0	5156	1	6854	0	8552	0
63	0	1761	0	3459	1	5157	1	6855	0	8553	0
64	1	1762	1	3460	0	5158	0	6856	0	8554	1
65	0	1763	0	3461	1	5159	1	6857	0	8555	1
66	1	1764	1	3462	1	5160	1	6858	0	8556	0
67	1	1765	0	3463	0	5161	0	6859	1	8557	1
68	0	1766	1	3464	1	5162	0	6860	1	8558	0
69	1	1767	1	3465	1	5163	1	6861	0	8559	1
70	1	1768	0	3466	1	5164	1	6862	1	8560	0
71	0	1769	0	3467	1	5165	1	6863	0	8561	0
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73	0	1771	1	3469	0	5167	1	6865	1	8563	0
74	1	1772	0	3470	0	5168	0	6866	1	8564	0
75	0	1773	1	3471	0	5169	1	6867	0	8565	1
76	0	1774	1	3472	1	5170	0	6868	0	8566	0
77	1	1775	1	3473	0	5171	1	6869	0	8567	0
78	0	1776	0	3474	0	5172	0	6870	0	8568	1
79	0	1777	1	3475	0	5173	1	6871	0	8569	0
80	1	1778	0	3476	0	5174	1	6872	0	8570	1
81	0	1779	0	3477	1	5175	0	6873	1	8571	0
82	0	1780	1	3478	1	5176	0	6874	1	8572	0
83	1	1781	0	3479	0	5177	0	6875	1	8573	0
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86	0	1784	0	3482	0	5180	1	6878	0	8576	0
87	0	1785	0	3483	0	5181	0	6879	0	8577	1
88	1	1786	0	3484	1	5182	1	6880	1	8578	1
89	0	1787	0	3485	1	5183	1	6881	0	8579	1
90	0	1788	1	3486	0	5184	1	6882	0	8580	0
91	1	1789	0	3487	1	5185	0	6883	0	8581	1
92	0	1790	0	3488	1	5186	1	6884	1	8582	1
93	1	1791	0	3489	1	5187	0	6885	0	8583	0
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95	0	1793	0	3491	1	5189	1	6887	0	8585	0
96	1	1794	0	3492	1	5190	1	6888	1	8586	0
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101	0	1799	1	3497	0	5195	1	6893	0	8591	0
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103	1	1801	0	3499	1	5197	1	6895	1	8593	0
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112	0	1810	1	3508	0	5206	0	6904	0	8602	0
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114	1	1812	0	3510	0	5208	0	6906	0	8604	1
115	1	1813	0	3511	1	5209	0	6907	1	8605	0
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117	1	1815	1	3513	1	5211	1	6909	0	8607	1
118	1	1816	0	3514	1	5212	1	6910	0	8608	0
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121	0	1819	0	3517	0	5215	0	6913	0	8611	1
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123	0	1821	0	3519	0	5217	1	6915	0	8613	1
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126	0	1824	1	3522	1	5220	1	6918	0	8616	1
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128	1	1826	0	3524	0	5222	1	6920	0	8618	0
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130	1	1828	0	3526	1	5224	0	6922	0	8620	0
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132	0	1830	1	3528	0	5226	1	6924	1	8622	0
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134	1	1832	0	3530	0	5228	1	6926	0	8624	0
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138	1	1836	0	3534	0	5232	0	6930	0	8628	0
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140	0	1838	1	3536	1	5234	0	6932	1	8630	1
141	1	1839	0	3537	1	5235	0	6933	1	8631	0
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144	0	1842	1	3540	1	5238	0	6936	1	8634	1
145	1	1843	1	3541	1	5239	1	6937	1	8635	0
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150	1	1848	0	3546	0	5244	0	6942	0	8640	1
151	0	1849	0	3547	1	5245	0	6943	1	8641	0
152	0	1850	1	3548	0	5246	0	6944	0	8642	0
153	0	1851	0	3549	0	5247	1	6945	0	8643	1
154	1	1852	0	3550	0	5248	1	6946	0	8644	1
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156	0	1854	0	3552	0	5250	1	6948	0	8646	1
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158	1	1856	0	3554	1	5252	0	6950	0	8648	0
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160	0	1858	0	3556	1	5254	0	6952	0	8650	0
161	1	1859	1	3557	1	5255	0	6953	0	8651	0
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164	1	1862	1	3560	1	5258	0	6956	1	8654	1
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166	0	1864	0	3562	1	5260	0	6958	1	8656	0
167	1	1865	1	3563	1	5261	0	6959	0	8657	0
168	0	1866	1	3564	0	5262	0	6960	1	8658	1
169	1	1867	0	3565	1	5263	1	6961	1	8659	0
170	1	1868	0	3566	1	5264	0	6962	1	8660	0
171	0	1869	1	3567	0	5265	1	6963	0	8661	1
172	0	1870	0	3568	1	5266	1	6964	0	8662	1
173	0	1871	0	3569	0	5267	0	6965	0	8663	0
174	0	1872	0	3570	1	5268	0	6966	1	8664	1
175	0	1873	0	3571	0	5269	0	6967	1	8665	1
176	0	1874	0	3572	1	5270	0	6968	0	8666	1
177	1	1875	1	3573	0	5271	0	6969	0	8667	0
178	1	1876	1	3574	0	5272	0	6970	0	8668	0
179	0	1877	1	3575	1	5273	0	6971	0	8669	1
180	1	1878	1	3576	1	5274	0	6972	0	8670	1
181	0	1879	0	3577	1	5275	1	6973	1	8671	1
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183	1	1881	0	3579	0	5277	0	6975	0	8673	0
184	0	1882	1	3580	0	5278	1	6976	0	8674	0
185	0	1883	1	3581	1	5279	0	6977	0	8675	1
186	1	1884	0	3582	1	5280	1	6978	1	8676	0

187	1	1885	1	3583	1	5281	1	6979	1	8677	0
188	0	1886	1	3584	1	5282	1	6980	1	8678	0
189	1	1887	0	3585	0	5283	1	6981	0	8679	0
190	0	1888	1	3586	1	5284	0	6982	1	8680	1
191	1	1889	1	3587	1	5285	0	6983	1	8681	1
192	1	1890	0	3588	0	5286	0	6984	1	8682	0
193	0	1891	0	3589	1	5287	1	6985	1	8683	0
194	1	1892	1	3590	0	5288	0	6986	0	8684	1
195	0	1893	0	3591	0	5289	0	6987	1	8685	1
196	0	1894	0	3592	0	5290	1	6988	1	8686	0
197	0	1895	0	3593	1	5291	1	6989	0	8687	0
198	1	1896	1	3594	1	5292	0	6990	1	8688	1
199	1	1897	1	3595	0	5293	1	6991	0	8689	0
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201	1	1899	1	3597	0	5295	0	6993	1	8691	1
202	0	1900	1	3598	0	5296	0	6994	0	8692	0
203	1	1901	0	3599	1	5297	1	6995	0	8693	0
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205	1	1903	1	3601	0	5299	1	6997	0	8695	0
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207	1	1905	1	3603	0	5301	0	6999	1	8697	1
208	0	1906	0	3604	0	5302	1	7000	0	8698	1
209	0	1907	0	3605	1	5303	0	7001	0	8699	0
210	1	1908	1	3606	1	5304	1	7002	0	8700	0
211	1	1909	1	3607	0	5305	0	7003	0	8701	1
212	0	1910	0	3608	0	5306	1	7004	1	8702	0
213	0	1911	0	3609	0	5307	1	7005	1	8703	0
214	1	1912	1	3610	1	5308	0	7006	0	8704	0
215	1	1913	0	3611	0	5309	0	7007	0	8705	1
216	1	1914	1	3612	1	5310	1	7008	1	8706	1
217	1	1915	1	3613	1	5311	0	7009	1	8707	1
218	1	1916	1	3614	0	5312	1	7010	1	8708	1
219	1	1917	0	3615	1	5313	1	7011	0	8709	1
220	1	1918	0	3616	1	5314	0	7012	1	8710	0
221	1	1919	1	3617	0	5315	0	7013	1	8711	1
222	0	1920	0	3618	1	5316	0	7014	1	8712	1
223	0	1921	1	3619	0	5317	0	7015	1	8713	1
224	0	1922	0	3620	0	5318	1	7016	1	8714	0
225	0	1923	0	3621	1	5319	1	7017	1	8715	1
226	1	1924	1	3622	0	5320	0	7018	1	8716	0
227	1	1925	0	3623	1	5321	1	7019	1	8717	1
228	1	1926	1	3624	0	5322	1	7020	0	8718	1
229	0	1927	1	3625	1	5323	0	7021	1	8719	1
230	1	1928	0	3626	1	5324	1	7022	1	8720	0

231	1	1929	0	3627	1	5325	0	7023	0	8721	0
232	0	1930	1	3628	1	5326	0	7024	0	8722	1
233	1	1931	0	3629	0	5327	0	7025	0	8723	1
234	1	1932	0	3630	1	5328	0	7026	1	8724	1
235	1	1933	1	3631	1	5329	0	7027	1	8725	0
236	1	1934	1	3632	1	5330	0	7028	1	8726	0
237	1	1935	0	3633	0	5331	1	7029	1	8727	0
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240	1	1938	1	3636	1	5334	0	7032	1	8730	1
241	1	1939	0	3637	0	5335	1	7033	0	8731	0
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243	0	1941	1	3639	1	5337	1	7035	1	8733	0
244	0	1942	1	3640	0	5338	0	7036	1	8734	1
245	1	1943	1	3641	1	5339	0	7037	1	8735	0
246	0	1944	1	3642	0	5340	0	7038	0	8736	0
247	0	1945	1	3643	1	5341	0	7039	1	8737	0
248	1	1946	1	3644	0	5342	1	7040	0	8738	0
249	0	1947	0	3645	1	5343	0	7041	0	8739	0
250	1	1948	1	3646	0	5344	0	7042	0	8740	0
251	0	1949	1	3647	1	5345	0	7043	0	8741	0
252	0	1950	0	3648	0	5346	1	7044	1	8742	0
253	0	1951	0	3649	0	5347	1	7045	1	8743	0
254	1	1952	0	3650	1	5348	1	7046	1	8744	1
255	1	1953	0	3651	0	5349	0	7047	0	8745	1
256	1	1954	1	3652	1	5350	1	7048	1	8746	0
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258	1	1956	1	3654	0	5352	0	7050	0	8748	1
259	0	1957	0	3655	1	5353	1	7051	0	8749	1
260	0	1958	1	3656	1	5354	1	7052	1	8750	0
261	1	1959	1	3657	1	5355	0	7053	1	8751	1
262	1	1960	1	3658	1	5356	0	7054	0	8752	0
263	1	1961	1	3659	0	5357	1	7055	0	8753	0
264	1	1962	0	3660	0	5358	1	7056	1	8754	0
265	0	1963	1	3661	1	5359	1	7057	0	8755	0
266	1	1964	1	3662	1	5360	1	7058	0	8756	0
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268	1	1966	0	3664	1	5362	1	7060	1	8758	0
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270	0	1968	1	3666	1	5364	0	7062	0	8760	0
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272	1	1970	1	3668	0	5366	1	7064	0	8762	0
273	0	1971	0	3669	0	5367	0	7065	0	8763	1
274	1	1972	0	3670	0	5368	0	7066	0	8764	0

275	0	1973	1	3671	0	5369	1	7067	1	8765	1
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277	1	1975	0	3673	1	5371	0	7069	1	8767	1
278	1	1976	1	3674	1	5372	1	7070	1	8768	0
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288	0	1986	1	3684	1	5382	1	7080	0	8778	0
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294	1	1992	1	3690	1	5388	1	7086	1	8784	0
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296	1	1994	1	3692	1	5390	1	7088	0	8786	0
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301	1	1999	1	3697	0	5395	1	7093	0	8791	0
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304	1	2002	1	3700	0	5398	1	7096	1	8794	1
305	1	2003	0	3701	1	5399	0	7097	1	8795	0
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307	1	2005	0	3703	1	5401	1	7099	1	8797	1
308	0	2006	1	3704	0	5402	1	7100	0	8798	0
309	0	2007	0	3705	1	5403	0	7101	1	8799	1
310	0	2008	0	3706	0	5404	0	7102	0	8800	0
311	1	2009	1	3707	1	5405	0	7103	1	8801	1
312	0	2010	1	3708	0	5406	0	7104	0	8802	0
313	0	2011	1	3709	0	5407	1	7105	1	8803	1
314	0	2012	1	3710	1	5408	1	7106	1	8804	1
315	0	2013	1	3711	0	5409	0	7107	1	8805	1
316	1	2014	0	3712	0	5410	1	7108	1	8806	1
317	1	2015	0	3713	1	5411	1	7109	1	8807	1
318	1	2016	0	3714	0	5412	0	7110	1	8808	0

319	1	2017	0	3715	1	5413	1	7111	1	8809	1
320	1	2018	0	3716	1	5414	1	7112	1	8810	1
321	0	2019	1	3717	1	5415	1	7113	0	8811	1
322	0	2020	0	3718	1	5416	0	7114	1	8812	0
323	1	2021	1	3719	1	5417	1	7115	1	8813	1
324	0	2022	0	3720	1	5418	1	7116	1	8814	1
325	0	2023	1	3721	0	5419	0	7117	1	8815	0
326	1	2024	0	3722	1	5420	1	7118	1	8816	0
327	0	2025	1	3723	1	5421	1	7119	0	8817	0
328	0	2026	1	3724	0	5422	0	7120	0	8818	1
329	1	2027	1	3725	0	5423	1	7121	0	8819	1
330	1	2028	1	3726	0	5424	0	7122	1	8820	1
331	0	2029	0	3727	0	5425	1	7123	1	8821	0
332	1	2030	1	3728	1	5426	0	7124	0	8822	1
333	1	2031	0	3729	1	5427	0	7125	0	8823	0
334	1	2032	0	3730	1	5428	0	7126	1	8824	1
335	1	2033	1	3731	1	5429	1	7127	1	8825	1
336	0	2034	0	3732	0	5430	1	7128	0	8826	1
337	0	2035	1	3733	0	5431	1	7129	0	8827	0
338	1	2036	0	3734	1	5432	0	7130	0	8828	1
339	0	2037	0	3735	0	5433	1	7131	1	8829	0
340	0	2038	0	3736	0	5434	0	7132	0	8830	1
341	0	2039	1	3737	1	5435	1	7133	1	8831	1
342	0	2040	0	3738	0	5436	0	7134	1	8832	0
343	0	2041	0	3739	1	5437	1	7135	1	8833	0
344	0	2042	1	3740	1	5438	0	7136	0	8834	1
345	0	2043	0	3741	0	5439	0	7137	0	8835	0
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347	1	2045	1	3743	0	5441	1	7139	0	8837	1
348	1	2046	1	3744	1	5442	1	7140	0	8838	0
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351	1	2049	1	3747	0	5445	1	7143	1	8841	1
352	0	2050	0	3748	0	5446	0	7144	0	8842	0
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354	1	2052	0	3750	1	5448	0	7146	0	8844	0
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357	1	2055	0	3753	0	5451	1	7149	0	8847	1
358	0	2056	0	3754	1	5452	0	7150	0	8848	0
359	0	2057	1	3755	1	5453	0	7151	1	8849	1
360	1	2058	1	3756	0	5454	0	7152	1	8850	1
361	0	2059	1	3757	1	5455	1	7153	0	8851	1
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364	0	2062	0	3760	1	5458	0	7156	0	8854	1
365	1	2063	1	3761	1	5459	0	7157	1	8855	1
366	1	2064	0	3762	0	5460	1	7158	0	8856	1
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370	0	2068	1	3766	0	5464	0	7162	0	8860	1
371	0	2069	1	3767	1	5465	1	7163	0	8861	0
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373	0	2071	0	3769	0	5467	0	7165	1	8863	0
374	0	2072	0	3770	0	5468	1	7166	1	8864	1
375	1	2073	1	3771	0	5469	0	7167	0	8865	1
376	1	2074	1	3772	1	5470	1	7168	1	8866	0
377	1	2075	0	3773	1	5471	1	7169	0	8867	1
378	1	2076	1	3774	1	5472	1	7170	1	8868	1
379	0	2077	1	3775	0	5473	0	7171	0	8869	1
380	0	2078	1	3776	0	5474	0	7172	0	8870	0
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383	0	2081	0	3779	0	5477	1	7175	0	8873	1
384	0	2082	0	3780	1	5478	0	7176	0	8874	0
385	0	2083	1	3781	1	5479	1	7177	1	8875	1
386	0	2084	1	3782	1	5480	1	7178	0	8876	1
387	0	2085	1	3783	0	5481	0	7179	1	8877	1
388	1	2086	0	3784	1	5482	0	7180	0	8878	0
389	1	2087	0	3785	0	5483	0	7181	1	8879	1
390	0	2088	1	3786	0	5484	0	7182	1	8880	0
391	1	2089	1	3787	0	5485	0	7183	1	8881	1
392	1	2090	1	3788	1	5486	1	7184	1	8882	0
393	0	2091	1	3789	1	5487	0	7185	0	8883	1
394	1	2092	1	3790	0	5488	1	7186	1	8884	1
395	1	2093	1	3791	1	5489	0	7187	0	8885	1
396	1	2094	1	3792	0	5490	1	7188	0	8886	1
397	0	2095	0	3793	0	5491	0	7189	0	8887	1
398	0	2096	0	3794	0	5492	0	7190	0	8888	1
399	1	2097	1	3795	1	5493	1	7191	1	8889	0
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401	0	2099	0	3797	1	5495	1	7193	0	8891	0
402	1	2100	0	3798	0	5496	1	7194	0	8892	0
403	1	2101	1	3799	1	5497	0	7195	0	8893	0
404	1	2102	0	3800	0	5498	1	7196	1	8894	0
405	1	2103	0	3801	0	5499	1	7197	1	8895	0
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407	1	2105	1	3803	1	5501	0	7199	1	8897	1
408	0	2106	0	3804	1	5502	0	7200	1	8898	0
409	0	2107	0	3805	1	5503	0	7201	0	8899	0
410	1	2108	0	3806	0	5504	1	7202	1	8900	1
411	0	2109	1	3807	1	5505	0	7203	0	8901	0
412	0	2110	1	3808	0	5506	0	7204	0	8902	1
413	1	2111	0	3809	1	5507	0	7205	1	8903	1
414	1	2112	0	3810	1	5508	1	7206	1	8904	0
415	1	2113	1	3811	0	5509	1	7207	0	8905	1
416	1	2114	0	3812	0	5510	1	7208	0	8906	0
417	0	2115	1	3813	1	5511	1	7209	1	8907	1
418	0	2116	1	3814	0	5512	1	7210	0	8908	0
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420	1	2118	0	3816	0	5514	1	7212	1	8910	1
421	1	2119	1	3817	1	5515	1	7213	1	8911	1
422	1	2120	1	3818	1	5516	0	7214	1	8912	0
423	1	2121	0	3819	1	5517	1	7215	0	8913	1
424	0	2122	1	3820	0	5518	1	7216	0	8914	1
425	1	2123	1	3821	1	5519	1	7217	1	8915	1
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428	0	2126	0	3824	0	5522	1	7220	1	8918	1
429	1	2127	0	3825	1	5523	0	7221	1	8919	0
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431	1	2129	1	3827	0	5525	1	7223	0	8921	0
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447	0	2145	0	3843	0	5541	1	7239	1	8937	1
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453	0	2151	0	3849	0	5547	1	7245	1	8943	0
454	1	2152	0	3850	1	5548	0	7246	1	8944	0
455	1	2153	0	3851	1	5549	0	7247	0	8945	1
456	0	2154	1	3852	1	5550	0	7248	0	8946	0
457	1	2155	0	3853	0	5551	1	7249	1	8947	1
458	1	2156	1	3854	0	5552	0	7250	0	8948	1
459	1	2157	0	3855	1	5553	0	7251	1	8949	1
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463	0	2161	1	3859	1	5557	0	7255	0	8953	0
464	1	2162	1	3860	0	5558	1	7256	0	8954	1
465	1	2163	0	3861	0	5559	1	7257	1	8955	0
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468	1	2166	0	3864	1	5562	1	7260	1	8958	1
469	1	2167	1	3865	0	5563	1	7261	1	8959	1
470	0	2168	1	3866	1	5564	0	7262	0	8960	0
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472	1	2170	0	3868	0	5566	0	7264	0	8962	0
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474	1	2172	1	3870	1	5568	0	7266	1	8964	1
475	0	2173	1	3871	0	5569	1	7267	0	8965	0
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477	0	2175	0	3873	1	5571	0	7269	0	8967	1
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487	0	2185	0	3883	0	5581	1	7279	0	8977	1
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489	1	2187	1	3885	0	5583	1	7281	0	8979	1
490	0	2188	1	3886	0	5584	1	7282	0	8980	0
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494	0	2192	1	3890	1	5588	0	7286	0	8984	0

495	1	2193	0	3891	0	5589	1	7287	1	8985	0
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497	1	2195	1	3893	1	5591	1	7289	1	8987	1
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504	1	2202	0	3900	0	5598	0	7296	1	8994	0
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508	0	2206	0	3904	1	5602	0	7300	1	8998	1
509	1	2207	0	3905	0	5603	1	7301	1	8999	0
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526	0	2224	1	3922	1	5620	1	7318	0	9016	0
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546	1	2244	1	3942	0	5640	0	7338	0	9036	1
547	0	2245	1	3943	0	5641	1	7339	1	9037	1
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553	1	2251	0	3949	0	5647	1	7345	1	9043	1
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555	1	2253	1	3951	0	5649	1	7347	1	9045	0
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557	0	2255	0	3953	1	5651	0	7349	1	9047	0
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559	1	2257	1	3955	0	5653	1	7351	0	9049	1
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561	1	2259	1	3957	1	5655	0	7353	0	9051	0
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564	1	2262	1	3960	0	5658	1	7356	0	9054	0
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567	0	2265	1	3963	0	5661	0	7359	0	9057	0
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577	0	2275	0	3973	0	5671	1	7369	1	9067	1
578	0	2276	0	3974	1	5672	1	7370	1	9068	1
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581	0	2279	1	3977	1	5675	1	7373	0	9071	1
582	0	2280	0	3978	0	5676	1	7374	0	9072	0

583	1	2281	1	3979	1	5677	1	7375	1	9073	1
584	1	2282	1	3980	1	5678	1	7376	1	9074	1
585	1	2283	1	3981	1	5679	0	7377	0	9075	0
586	0	2284	1	3982	1	5680	1	7378	1	9076	0
587	1	2285	1	3983	1	5681	1	7379	1	9077	0
588	0	2286	1	3984	1	5682	0	7380	1	9078	0
589	0	2287	1	3985	1	5683	1	7381	1	9079	0
590	1	2288	0	3986	1	5684	1	7382	1	9080	0
591	0	2289	0	3987	0	5685	1	7383	0	9081	0
592	1	2290	0	3988	1	5686	0	7384	0	9082	0
593	1	2291	1	3989	1	5687	0	7385	1	9083	0
594	1	2292	1	3990	1	5688	0	7386	1	9084	1
595	0	2293	1	3991	0	5689	1	7387	1	9085	1
596	1	2294	0	3992	0	5690	0	7388	0	9086	0
597	0	2295	1	3993	1	5691	0	7389	0	9087	0
598	0	2296	1	3994	0	5692	0	7390	0	9088	0
599	0	2297	1	3995	0	5693	1	7391	0	9089	1
600	0	2298	0	3996	0	5694	0	7392	1	9090	1
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604	1	2302	0	4000	0	5698	1	7396	1	9094	1
605	0	2303	1	4001	0	5699	1	7397	0	9095	0
606	0	2304	1	4002	1	5700	1	7398	0	9096	1
607	1	2305	1	4003	0	5701	0	7399	1	9097	0
608	0	2306	1	4004	0	5702	1	7400	0	9098	0
609	1	2307	0	4005	0	5703	1	7401	1	9099	1
610	0	2308	1	4006	0	5704	0	7402	1	9100	1
611	1	2309	0	4007	1	5705	0	7403	1	9101	1
612	0	2310	1	4008	0	5706	0	7404	0	9102	0
613	1	2311	0	4009	0	5707	0	7405	1	9103	0
614	1	2312	0	4010	1	5708	1	7406	1	9104	1
615	0	2313	1	4011	0	5709	0	7407	1	9105	0
616	1	2314	0	4012	1	5710	0	7408	1	9106	1
617	1	2315	1	4013	1	5711	1	7409	0	9107	1
618	1	2316	0	4014	0	5712	0	7410	1	9108	0
619	0	2317	0	4015	1	5713	0	7411	0	9109	0
620	1	2318	1	4016	1	5714	0	7412	0	9110	1
621	1	2319	0	4017	1	5715	1	7413	1	9111	1
622	1	2320	1	4018	0	5716	0	7414	0	9112	1
623	1	2321	1	4019	0	5717	1	7415	1	9113	0
624	0	2322	0	4020	1	5718	1	7416	1	9114	0
625	1	2323	0	4021	1	5719	0	7417	0	9115	0
626	0	2324	1	4022	1	5720	0	7418	0	9116	0

627	1	2325	1	4023	0	5721	1	7419	1	9117	0
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629	1	2327	0	4025	1	5723	1	7421	1	9119	1
630	0	2328	1	4026	0	5724	1	7422	1	9120	1
631	0	2329	0	4027	1	5725	1	7423	0	9121	0
632	0	2330	1	4028	1	5726	1	7424	0	9122	1
633	0	2331	1	4029	1	5727	0	7425	0	9123	0
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635	0	2333	0	4031	0	5729	1	7427	0	9125	1
636	0	2334	0	4032	1	5730	1	7428	1	9126	0
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639	1	2337	0	4035	0	5733	1	7431	1	9129	1
640	1	2338	0	4036	1	5734	1	7432	1	9130	0
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645	1	2343	1	4041	1	5739	1	7437	1	9135	1
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648	0	2346	1	4044	0	5742	0	7440	1	9138	0
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650	0	2348	1	4046	1	5744	1	7442	1	9140	0
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652	0	2350	1	4048	0	5746	1	7444	0	9142	0
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654	1	2352	0	4050	1	5748	1	7446	1	9144	1
655	0	2353	0	4051	1	5749	0	7447	0	9145	1
656	1	2354	1	4052	1	5750	0	7448	0	9146	1
657	0	2355	1	4053	0	5751	0	7449	0	9147	0
658	0	2356	0	4054	1	5752	0	7450	0	9148	1
659	1	2357	0	4055	0	5753	0	7451	0	9149	1
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661	1	2359	1	4057	0	5755	1	7453	1	9151	1
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663	1	2361	1	4059	1	5757	0	7455	1	9153	0
664	0	2362	1	4060	1	5758	0	7456	1	9154	1
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667	1	2365	1	4063	1	5761	0	7459	1	9157	1
668	0	2366	1	4064	0	5762	0	7460	0	9158	1
669	1	2367	1	4065	0	5763	1	7461	0	9159	1
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671	1	2369	1	4067	1	5765	1	7463	0	9161	0
672	0	2370	1	4068	1	5766	0	7464	1	9162	0
673	1	2371	0	4069	0	5767	0	7465	0	9163	0
674	1	2372	1	4070	0	5768	1	7466	0	9164	1
675	1	2373	0	4071	1	5769	1	7467	1	9165	1
676	1	2374	0	4072	1	5770	0	7468	1	9166	1
677	1	2375	1	4073	0	5771	1	7469	0	9167	1
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680	1	2378	0	4076	0	5774	1	7472	0	9170	1
681	1	2379	0	4077	0	5775	1	7473	1	9171	0
682	1	2380	1	4078	0	5776	1	7474	1	9172	0
683	1	2381	0	4079	0	5777	0	7475	0	9173	1
684	0	2382	0	4080	1	5778	1	7476	0	9174	1
685	0	2383	0	4081	1	5779	0	7477	1	9175	0
686	0	2384	1	4082	1	5780	0	7478	0	9176	0
687	0	2385	1	4083	0	5781	0	7479	1	9177	1
688	1	2386	1	4084	0	5782	0	7480	1	9178	1
689	1	2387	0	4085	0	5783	1	7481	0	9179	0
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691	1	2389	1	4087	0	5785	1	7483	1	9181	0
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697	0	2395	0	4093	0	5791	0	7489	1	9187	1
698	0	2396	1	4094	1	5792	1	7490	0	9188	0
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704	0	2402	0	4100	0	5798	1	7496	0	9194	0
705	1	2403	1	4101	1	5799	0	7497	1	9195	1
706	0	2404	0	4102	1	5800	1	7498	0	9196	0
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710	1	2408	0	4106	1	5804	0	7502	1	9200	0
711	0	2409	0	4107	0	5805	0	7503	0	9201	0
712	1	2410	0	4108	0	5806	1	7504	0	9202	0
713	0	2411	1	4109	1	5807	1	7505	0	9203	0
714	1	2412	0	4110	0	5808	0	7506	1	9204	0

715	1	2413	1	4111	1	5809	0	7507	0	9205	0
716	1	2414	1	4112	0	5810	1	7508	1	9206	1
717	0	2415	1	4113	0	5811	0	7509	0	9207	1
718	0	2416	0	4114	0	5812	1	7510	1	9208	0
719	0	2417	1	4115	1	5813	0	7511	1	9209	1
720	0	2418	0	4116	0	5814	1	7512	1	9210	1
721	1	2419	1	4117	1	5815	1	7513	1	9211	1
722	0	2420	1	4118	1	5816	1	7514	1	9212	0
723	0	2421	1	4119	1	5817	0	7515	0	9213	0
724	1	2422	0	4120	1	5818	0	7516	0	9214	0
725	1	2423	1	4121	0	5819	0	7517	0	9215	1
726	0	2424	1	4122	0	5820	0	7518	0	9216	0
727	1	2425	0	4123	1	5821	1	7519	0	9217	1
728	0	2426	1	4124	1	5822	1	7520	0	9218	0
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730	0	2428	0	4126	1	5824	0	7522	0	9220	0
731	1	2429	0	4127	1	5825	0	7523	1	9221	0
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733	1	2431	1	4129	0	5827	1	7525	0	9223	1
734	1	2432	0	4130	1	5828	0	7526	1	9224	0
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736	1	2434	0	4132	1	5830	1	7528	1	9226	0
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738	0	2436	1	4134	1	5832	0	7530	0	9228	1
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741	1	2439	0	4137	0	5835	0	7533	1	9231	1
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743	0	2441	1	4139	1	5837	1	7535	1	9233	0
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745	0	2443	0	4141	1	5839	0	7537	1	9235	1
746	0	2444	1	4142	0	5840	0	7538	0	9236	0
747	0	2445	1	4143	0	5841	1	7539	0	9237	1
748	0	2446	1	4144	0	5842	0	7540	1	9238	0
749	0	2447	1	4145	0	5843	0	7541	0	9239	0
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752	1	2450	1	4148	1	5846	1	7544	1	9242	1
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754	1	2452	0	4150	1	5848	1	7546	0	9244	0
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757	1	2455	1	4153	0	5851	0	7549	0	9247	1
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761	1	2459	0	4157	0	5855	0	7553	1	9251	1
762	0	2460	1	4158	1	5856	1	7554	0	9252	1
763	1	2461	1	4159	1	5857	0	7555	0	9253	0
764	0	2462	1	4160	0	5858	1	7556	1	9254	1
765	0	2463	1	4161	1	5859	1	7557	1	9255	0
766	1	2464	0	4162	0	5860	1	7558	0	9256	1
767	1	2465	1	4163	0	5861	0	7559	1	9257	0
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769	0	2467	0	4165	1	5863	1	7561	1	9259	1
770	1	2468	1	4166	0	5864	0	7562	0	9260	0
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775	0	2473	1	4171	0	5869	1	7567	1	9265	0
776	1	2474	0	4172	0	5870	1	7568	1	9266	0
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778	1	2476	1	4174	1	5872	0	7570	1	9268	0
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780	0	2478	1	4176	0	5874	0	7572	1	9270	1
781	0	2479	0	4177	0	5875	0	7573	0	9271	0
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784	1	2482	0	4180	0	5878	0	7576	0	9274	1
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787	0	2485	1	4183	1	5881	1	7579	0	9277	1
788	1	2486	1	4184	0	5882	1	7580	1	9278	1
789	1	2487	1	4185	0	5883	0	7581	1	9279	1
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791	1	2489	0	4187	1	5885	1	7583	1	9281	1
792	0	2490	1	4188	1	5886	0	7584	1	9282	0
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796	1	2494	0	4192	0	5890	0	7588	1	9286	1
797	1	2495	1	4193	1	5891	0	7589	1	9287	0
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799	1	2497	1	4195	1	5893	0	7591	1	9289	0
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801	1	2499	0	4197	1	5895	0	7593	1	9291	1
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809	0	2507	1	4205	0	5903	0	7601	0	9299	0
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811	0	2509	0	4207	0	5905	1	7603	0	9301	1
812	0	2510	1	4208	0	5906	0	7604	1	9302	1
813	0	2511	0	4209	1	5907	0	7605	1	9303	0
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817	1	2515	1	4213	1	5911	0	7609	1	9307	1
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837	1	2535	0	4233	0	5931	0	7629	1	9327	0
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842	1	2540	0	4238	1	5936	0	7634	0	9332	0
843	0	2541	0	4239	0	5937	1	7635	1	9333	0
844	1	2542	0	4240	0	5938	0	7636	0	9334	0
845	0	2543	1	4241	0	5939	0	7637	0	9335	0
846	0	2544	0	4242	1	5940	1	7638	1	9336	1

847	0	2545	0	4243	0	5941	0	7639	1	9337	0
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849	0	2547	0	4245	1	5943	0	7641	1	9339	1
850	0	2548	0	4246	1	5944	0	7642	0	9340	1
851	0	2549	0	4247	0	5945	0	7643	1	9341	0
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853	0	2551	0	4249	1	5947	0	7645	0	9343	1
854	0	2552	0	4250	1	5948	1	7646	1	9344	0
855	0	2553	1	4251	0	5949	0	7647	1	9345	1
856	1	2554	1	4252	0	5950	1	7648	0	9346	1
857	1	2555	0	4253	0	5951	1	7649	0	9347	1
858	1	2556	1	4254	1	5952	1	7650	1	9348	0
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860	1	2558	1	4256	1	5954	1	7652	1	9350	0
861	0	2559	0	4257	0	5955	0	7653	0	9351	0
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864	1	2562	0	4260	0	5958	1	7656	1	9354	0
865	0	2563	0	4261	0	5959	0	7657	1	9355	0
866	0	2564	1	4262	1	5960	0	7658	0	9356	1
867	1	2565	1	4263	0	5961	1	7659	1	9357	1
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869	0	2567	1	4265	1	5963	1	7661	0	9359	1
870	1	2568	1	4266	1	5964	1	7662	1	9360	0
871	1	2569	0	4267	1	5965	0	7663	0	9361	0
872	0	2570	1	4268	0	5966	0	7664	0	9362	1
873	0	2571	1	4269	1	5967	0	7665	1	9363	1
874	0	2572	1	4270	0	5968	0	7666	1	9364	1
875	1	2573	1	4271	1	5969	1	7667	1	9365	0
876	1	2574	1	4272	0	5970	1	7668	1	9366	1
877	1	2575	0	4273	0	5971	0	7669	1	9367	0
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880	1	2578	0	4276	1	5974	1	7672	1	9370	0
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882	1	2580	1	4278	0	5976	1	7674	0	9372	0
883	0	2581	1	4279	0	5977	0	7675	0	9373	0
884	1	2582	1	4280	0	5978	1	7676	1	9374	0
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886	1	2584	0	4282	1	5980	0	7678	0	9376	1
887	0	2585	0	4283	0	5981	1	7679	1	9377	1
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893	1	2591	0	4289	1	5987	0	7685	0	9383	0
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902	1	2600	0	4298	0	5996	1	7694	0	9392	1
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904	0	2602	1	4300	0	5998	0	7696	1	9394	1
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906	1	2604	1	4302	0	6000	0	7698	0	9396	1
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908	1	2606	1	4304	1	6002	0	7700	1	9398	0
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910	1	2608	1	4306	1	6004	0	7702	1	9400	0
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913	1	2611	0	4309	1	6007	0	7705	1	9403	1
914	0	2612	0	4310	1	6008	0	7706	0	9404	0
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916	1	2614	0	4312	0	6010	1	7708	0	9406	1
917	1	2615	1	4313	0	6011	0	7709	0	9407	0
918	0	2616	1	4314	0	6012	0	7710	0	9408	0
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920	0	2618	0	4316	1	6014	0	7712	0	9410	1
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922	1	2620	1	4318	1	6016	1	7714	1	9412	0
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924	1	2622	0	4320	1	6018	1	7716	1	9414	0
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926	0	2624	0	4322	1	6020	0	7718	0	9416	1
927	1	2625	0	4323	0	6021	1	7719	1	9417	0
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929	1	2627	1	4325	0	6023	1	7721	1	9419	0
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931	1	2629	1	4327	1	6025	0	7723	0	9421	0
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937	1	2635	1	4333	0	6031	0	7729	0	9427	0
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939	0	2637	0	4335	1	6033	0	7731	0	9429	0
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946	1	2644	0	4342	0	6040	1	7738	0	9436	0
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948	0	2646	0	4344	1	6042	0	7740	0	9438	1
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961	0	2659	0	4357	0	6055	1	7753	0	9451	0
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982	0	2680	1	4378	0	6076	0	7774	0	9472	0
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992	1	2690	1	4388	1	6086	1	7784	0	9482	0
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1013	1	2711	0	4409	0	6107	0	7805	0	9503	1
1014	1	2712	0	4410	0	6108	1	7806	1	9504	0
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1114	1	2812	1	4510	0	6208	1	7906	0	9604	0
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1379	1	3077	1	4775	0	6473	0	8171	0	9869	1
1380	1	3078	1	4776	0	6474	1	8172	0	9870	1
1381	0	3079	0	4777	0	6475	1	8173	1	9871	0
1382	1	3080	0	4778	1	6476	0	8174	0	9872	0
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1384	0	3082	0	4780	1	6478	1	8176	0	9874	0
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1390	1	3088	0	4786	1	6484	1	8182	1	9880	0
1391	0	3089	0	4787	0	6485	1	8183	1	9881	0
1392	1	3090	0	4788	0	6486	0	8184	1	9882	0
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1395	1	3093	1	4791	0	6489	1	8187	1	9885	1
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1400	0	3098	0	4796	0	6494	0	8192	0	9890	1
1401	1	3099	0	4797	0	6495	0	8193	1	9891	0
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1403	0	3101	0	4799	1	6497	0	8195	1	9893	1
1404	1	3102	0	4800	0	6498	0	8196	0	9894	0
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1639	0	3337	0	5035	0	6733	0	8431	0	10129	1
1640	1	3338	0	5036	1	6734	0	8432	1	10130	0
1641	0	3339	0	5037	1	6735	1	8433	0	10131	1
1642	0	3340	1	5038	1	6736	0	8434	1	10132	1
1643	0	3341	1	5039	1	6737	0	8435	1	10133	0
1644	1	3342	0	5040	1	6738	0	8436	0	10134	1
1645	1	3343	1	5041	1	6739	1	8437	1	10135	1
1646	0	3344	0	5042	1	6740	0	8438	0	10136	1
1647	1	3345	0	5043	1	6741	0	8439	0	10137	1
1648	1	3346	0	5044	0	6742	1	8440	1	10138	0
1649	1	3347	1	5045	1	6743	1	8441	0	10139	0
1650	1	3348	1	5046	1	6744	1	8442	0	10140	1
1651	0	3349	0	5047	1	6745	1	8443	1	10141	0
1652	1	3350	0	5048	0	6746	0	8444	0	10142	0
1653	1	3351	1	5049	1	6747	1	8445	0	10143	1
1654	0	3352	0	5050	0	6748	0	8446	0	10144	1
1655	0	3353	0	5051	0	6749	0	8447	0	10145	1
1656	1	3354	1	5052	0	6750	0	8448	1	10146	0
1657	1	3355	0	5053	1	6751	0	8449	1	10147	0
1658	0	3356	1	5054	0	6752	0	8450	1	10148	0
1659	1	3357	1	5055	0	6753	1	8451	0	10149	0
1660	1	3358	1	5056	0	6754	1	8452	1	10150	1
1661	0	3359	0	5057	0	6755	1	8453	1	10151	0
1662	0	3360	1	5058	0	6756	0	8454	0	10152	0
1663	0	3361	0	5059	1	6757	0	8455	1	10153	0
1664	0	3362	1	5060	1	6758	0	8456	0	10154	0
1665	1	3363	0	5061	0	6759	0	8457	1	10155	1
1666	1	3364	0	5062	0	6760	0	8458	1	10156	1
1667	1	3365	0	5063	1	6761	0	8459	1	10157	0
1668	0	3366	1	5064	0	6762	0	8460	1	10158	1
1669	1	3367	0	5065	1	6763	0	8461	1	10159	0
1670	1	3368	1	5066	0	6764	0	8462	1	10160	0
1671	1	3369	0	5067	0	6765	0	8463	1	10161	1
1672	1	3370	1	5068	1	6766	0	8464	1	10162	1
1673	1	3371	0	5069	1	6767	0	8465	0	10163	0
1674	0	3372	0	5070	0	6768	1	8466	1	10164	1
1675	0	3373	0	5071	1	6769	1	8467	1	10165	0
1676	1	3374	0	5072	0	6770	0	8468	0	10166	1
1677	1	3375	1	5073	1	6771	1	8469	0	10167	0
1678	0	3376	1	5074	0	6772	1	8470	1	10168	1
1679	0	3377	1	5075	1	6773	1	8471	0	10169	0
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1681	0	3379	0	5077	1	6775	1	8473	1	10171	1
1682	1	3380	0	5078	1	6776	0	8474	1	10172	0

1683	1	3381	1	5079	1	6777	0	8475	0	10173	1
1684	1	3382	0	5080	1	6778	0	8476	0	10174	0
1685	1	3383	1	5081	1	6779	1	8477	0	10175	0
1686	0	3384	1	5082	0	6780	1	8478	0	10176	0
1687	0	3385	0	5083	0	6781	1	8479	0	10177	0
1688	0	3386	1	5084	1	6782	1	8480	0	10178	0
1689	1	3387	1	5085	1	6783	1	8481	0	10179	0
1690	1	3388	0	5086	1	6784	0	8482	0	10180	0
1691	1	3389	1	5087	1	6785	0	8483	0	10181	0
1692	1	3390	1	5088	0	6786	1	8484	1		
1693	0	3391	0	5089	0	6787	0	8485	1		
1694	1	3392	1	5090	0	6788	1	8486	0		
1695	1	3393	1	5091	0	6789	1	8487	0		
1696	1	3394	1	5092	1	6790	0	8488	0		
1697	0	3395	0	5093	1	6791	1	8489	0		

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