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The Cyclotomic Numbers of Order Fifteen

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Dedicated to Daniel Shanks on the occasion of his 70th birthday

Abstract. Explicit formulae are obtained for the cyclotomic numbers of order 15.

1. Introduction and Notation. Let $p = 15f + 1$ be a prime, so that f is even. Let g be a fixed primitive root of p. The index of $k \not\equiv 0 \pmod p$, written $\operatorname{ind} k$, is the unique integer m such that $k \equiv g^m \pmod p$, $0 \leqslant m \leqslant p-2$. For integers i and j $(0 \leqslant i, j \leqslant 14)$ the cyclotomic number $(i, j)_{15}$ of order 15 is defined to be the number of integers k $(2 \leqslant k \leqslant p-1)$ which satisfy

$$\operatorname{ind}(k-1) \equiv i \pmod{15}, \qquad \operatorname{ind} k \equiv j \pmod{15}. \tag{1.1}$$

The purpose of this paper is to give explicit formulae for the cyclotomic numbers of order 15. Formulae for the cyclotomic numbers of orders 2, 3, 4, 5, 6 [4]; 7 [11]; 8 [10]; 9 [2]; 10 [18]; 11 [12]; 12 [19]; 14 [13]; 16 [17], [6]; 18 [2]; 20 [15]; 24 [7], are already known.

Closely related to the cyclotomic numbers $(h, k)_{15}$ are the Jacobi sums $J_{15}(\beta^m, \beta^n)$ of order 15, defined for integers m and n by

$$J_{15}(\beta^m, \beta^n) = \sum_{k=2}^{p-1} \beta^{m \operatorname{ind} k + n \operatorname{ind}(1-k)}, \tag{1.2}$$

where $\beta = \exp(2\pi i/15)$. The basic properties of these sums are given in Section 2. The study of the Jacobi sums of order 15 was begun by L. E. Dickson [5] in 1935 and completed by J. B. Muskat [14] in 1968.

In this paper we use Dickson's and Muskat's evaluations of the Jacobi sums of order 15 (see Sections 3 and 4) to obtain the values of the Dickson-Hurwitz $B_{15}(i, v)$ of order 15 defined by

$$B_{15}(i, v) = \sum_{h=0}^{14} (h, i - vh)_{15}; \tag{1.3}$$

see Section 5. In Section 6, a special case of a theorem of Friesen, Muskat, Spearman, and Williams [8, Theorem 7] is used to express each cyclotomic number in terms of the Dickson-Hurwitz sums, and then, using the values for the Dickson-Hurwitz sum obtained in Section 5, explicit formulae for the cyclotomic numbers

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$(i, j)_{15}$ are derived (see Tables 1–70). It turns out that each number $225(i, j)_{15}$ can be expressed as an integral linear combination of the integers p, 1, a, b, c, d, x, u, v, w, b_0, b_1, b_2, b_3, b_4, b_5, b_6, b_7, where the quantities $a, b, \ldots, b_7$ are given by

$$\beta^{10\,\mathrm{ind}\,2} J_{15}(\beta^5, \beta^5) = a + b\sqrt{-3}, \tag{1.4}$$

$$\beta^{10\,\mathrm{ind}\,5} J_{15}(\beta, \beta^4) = c + d\sqrt{-15}, \tag{1.5}$$

$$\beta^{6\,\mathrm{ind}\,2} J_{15}(\beta^3, \beta^3) = x + u\sqrt{-5 - 2\sqrt{5}} + v\sqrt{-5 + 2\sqrt{5}} + w\sqrt{5}, \tag{1.6}$$

$$J_{15}(\beta, \beta) = \sum_{j=0}^{7} b_j \beta^j. \tag{1.7}$$

There are 450 sets of tables for the $(i, j)_{15}$, depending upon the values of ind 2 (mod 15), ind 3 (mod 5), ind 5 (mod 3), c ($\equiv \pm 1$) (mod 5). However, as explained in Section 6, it is only necessary to list 70 of these tables, as the remaining 380 tables can be deduced from them.

The integers a, b, c, d, x, u, v, w have the following properties:

$$p = a^2 + 3b^2, \qquad a \equiv -1 \pmod 3; \tag{1.8}$$

$$p = c^2 + 15d^2, \qquad c \equiv -1 \pmod 3; \tag{1.9}$$

$$\begin{cases} p = x^2 + 5u^2 + 5v^2 + 5w^2, \\ xw = v^2 - uv - u^2, \qquad x \equiv -1 \pmod 5. \end{cases} \tag{1.10}$$

We remark that a is determined uniquely by (1.8); c is determined uniquely by (1.9); and x is determined uniquely by (1.10) (see [16, p. 17]).

For example, when $p = 61$, $g = 2$, we have

$$a = -7, \quad b = 2, \quad c = -1, \quad d = -2,$$
$$x = 4, \quad u = 2, \quad v = 2, \quad w = -1,$$
$$b_0 = -3, \quad b_1 = 1, \quad b_2 = 4, \quad b_3 = -6, \quad b_4 = 5, \quad b_5 = -3, \quad b_6 = -4, \quad b_7 = 11.$$

We conclude this section by remarking that all the computations for this paper were carried out on a Digital Professional 350 microcomputer. The authors would like to thank David Conibear for his help in running the programs.

2. Basic Properties of Jacobi and Gauss Sums. The Jacobi sums $J_{15}(\beta^m, \beta^n)$ have the following well-known properties (see, for example, [14, pp. 483–484]):

$$J_{15}(\beta^m, \beta^n) = J_{15}(\beta^n, \beta^m) = J_{15}(\beta^{-m-n}, \beta^n); \tag{2.1}$$

$$J_{15}(\beta^m, \beta^n) J_{15}(\beta^{-m}, \beta^{-n}) = p \quad \text{if } 15 \nmid m, 15 \nmid n, 15 \nmid m + n; \tag{2.2}$$

$$J_{15}(\beta^m, \beta^n) = -1 \quad \text{if } 15 \nmid m, 15 \mid n; \text{ or } 15 \mid m, 15 \nmid n; \text{ or } 15 \nmid m, 15 \nmid n, 15 \mid m + n; \tag{2.3}$$

$$J_{15}(\beta^m, \beta^n) = p - 2 \quad \text{if } 15 \mid m, 15 \mid n. \tag{2.4}$$

Closely related to the Jacobi sum $J_{15}(\beta^m, \beta^n)$ is the Gauss sum $G_{15}(\beta^m)$ defined for any integer m by

$$G_{15}(\beta^m) = \sum_{r=1}^{p-1} \beta^{m\,\mathrm{ind}\,r} \zeta^r, \tag{2.5}$$

where $\zeta = \exp(2\pi i/p)$. The Gauss sums $G_{15}(\beta^m)$ have the following properties (see, for example, [14, p. 484]):

$$G_{15}(\beta^m) = -1 \qquad \text{if } 15 \mid m, \tag{2.6}$$

$$G_{15}(\beta^m)G_{15}(\beta^{-m}) = p \qquad \text{if } 15 \nmid m. \tag{2.7}$$

The basic relationship between these Gauss and Jacobi sums is (see, for example, [14, Eq. (3)])

$$J_{15}(\beta^m, \beta^n) = \frac{G_{15}(\beta^m)G_{15}(\beta^n)}{G_{15}(\beta^{m+n})} \qquad \text{if } 15 \nmid m, 15 \nmid n, 15 \nmid m+n. \tag{2.8}$$

3. Consideration of Gauss Sums $G_{15}(\beta^j)$. In this section we use the Davenport-Hasse identity [3, Eq. $(0.9)_1$] to determine relationships among the Gauss sums $G_{15}(\beta^j)$ $(j = 1, 2, \ldots, 14)$.

THEOREM 1. *Let $p \equiv 1 \pmod{15}$ be a prime. Let g be a primitive root $\pmod p$ and let $\beta = \exp(2\pi i/15)$. Then the Gauss sums $G_{15}(\beta^j)$ $(j = 1, 2, \ldots, 14)$ are related as follows*:

$$G_{15}(\beta) = A, \tag{3.1}$$

$$G_{15}(\beta^2) = B, \tag{3.2}$$

$$G_{15}(\beta^3) = C, \tag{3.3}$$

$$G_{15}(\beta^4) = \theta\beta^{-3\operatorname{ind}3+5\operatorname{ind}5}BD/C, \tag{3.4}$$

$$G_{15}(\beta^5) = D, \tag{3.5}$$

$$G_{15}(\beta^6) = \theta\beta^{-6\operatorname{ind}3+5\operatorname{ind}5}BD/A, \tag{3.6}$$

$$G_{15}(\beta^7) = \theta\beta^{3\operatorname{ind}3+5\operatorname{ind}5}CD/A, \tag{3.7}$$

$$G_{15}(\beta^8) = \theta\beta^{-3\operatorname{ind}3-5\operatorname{ind}5}pA/CD, \tag{3.8}$$

$$G_{15}(\beta^9) = \theta\beta^{6\operatorname{ind}3-5\operatorname{ind}5}pA/BD, \tag{3.9}$$

$$G_{15}(\beta^{10}) = p/D, \tag{3.10}$$

$$G_{15}(\beta^{11}) = \theta\beta^{3\operatorname{ind}3-5\operatorname{ind}5}pC/BD, \tag{3.11}$$

$$G_{15}(\beta^{12}) = p/C, \tag{3.12}$$

$$G_{15}(\beta^{13}) = p/B, \tag{3.13}$$

$$G_{15}(\beta^{14}) = p/A, \tag{3.14}$$

where $\theta = \pm 1$. [The determination of θ is given in Theorem 3.]

Proof. Clearly (3.10), (3.12), (3.13), (3.14) follow from (2.7) and (3.5), (3.3), (3.2), (3.1), respectively.

Next, from the Davenport-Hasse identity, we have

$$pG_{15}(\beta^3) = \beta^{3\operatorname{ind}3}G_{15}(\beta)G_{15}(\beta^6)G_{15}(\beta^{11}), \tag{3.15}$$

$$pG_{15}(\beta^6) = \beta^{6\operatorname{ind}3}G_{15}(\beta^2)G_{15}(\beta^7)G_{15}(\beta^{12}), \tag{3.16}$$

and

$$p^2G_{15}(\beta^5) = \beta^{5\operatorname{ind}5}G_{15}(\beta)G_{15}(\beta^4)G_{15}(\beta^7)G_{15}(\beta^{10})G_{15}(\beta^{13}). \tag{3.17}$$

Using (3.15), (3.1), (3.3) we get

$$G_{15}(\beta^6)G_{15}(\beta^{11}) = \beta^{-3\operatorname{ind}3}pC/A; \tag{3.18}$$

using (3.16), (3.2), (3.12) we get

$$G_{15}(\beta^6)/G_{15}(\beta^7) = \beta^{6\,\mathrm{ind}\,3}B/C; \tag{3.19}$$

and using (3.17), (3.1), (3.5), (3.10), (3.13) we get

$$G_{15}(\beta^4)G_{15}(\beta^7) = \beta^{-5\,\mathrm{ind}\,5}BD^2/A. \tag{3.20}$$

Multiplying (3.18) and (3.20) together, and using $G_{15}(\beta^4)G_{15}(\beta^{11}) = p$, we obtain

$$G_{15}(\beta^6)G_{15}(\beta^7) = \beta^{-3\,\mathrm{ind}\,3-5\,\mathrm{ind}\,5}BCD^2/A^2. \tag{3.21}$$

Then, multiplying (3.19) and (3.21) together, we have

$$\{G_{15}(\beta^6)\}^2 = \beta^{3\,\mathrm{ind}\,3-5\,\mathrm{ind}\,5}B^2D^2/A^2, \tag{3.22}$$

so that (3.6) follows.

From (3.6) and (3.18), (3.6) and (3.19), (3.7) and (3.20), we obtain (3.11), (3.7), (3.4), respectively. Then, from (3.6) and (2.7), we obtain (3.9) and, from (3.7) and (2.7), we obtain (3.8).

This completes the proof of Theorem 1. □

4. Evaluation of Jacobi Sums $J_{15}(\beta^m, \beta^n)$. For $(k, 15) = 1$ the automorphism σ_k of $Q(\beta)$ is defined by $\sigma_k : \beta \to \beta^k$. The conjugates of the Jacobi sum $J_{15}(\beta^m, \beta^n)$ are given by $\sigma_k(J_{15}(\beta^m, \beta^n)) = J_{15}(\beta^{km}, \beta^{kn})$, where $k = 1, 2, 4, 7, 8, 11, 13, 14$.

Using the basic properties (2.1), (2.3), (2.4), the nontrivial Jacobi sums $J_{15}(\beta^m, \beta^n)$ (where 15 does not divide any of m, n or $m + n$) are easily seen to be conjugate to

$$J(\beta, \beta^n) \quad (n = 1, 2, 3, 4, 5), \quad J(\beta^3, \beta^3), \quad J(\beta^5, \beta^5). \tag{4.1}$$

THEOREM 2. *Let $p \equiv 1 \pmod{15}$ be a prime. Let g be a primitive root* mod p *and let $\beta = \exp(2\pi i/15)$. Then the values of the seven Jacobi sums listed in* (4.1) *are given by*

$$J_{15}(\beta, \beta) = \sum_{j=0}^{7} b_j\beta^j, \tag{4.2}$$

$$J_{15}(\beta, \beta^2) = \theta\beta^{3\,\mathrm{ind}\,3}(c + d\sqrt{-15}), \tag{4.3}$$

$$J_{15}(\beta, \beta^3) = \beta^{-6\,\mathrm{ind}\,2-3\,\mathrm{ind}\,3}\left(x + u\sqrt{-5 - 2\sqrt{5}} + v\sqrt{-5 + 2\sqrt{5}} + w\sqrt{5}\right), \tag{4.4}$$

$$J_{15}(\beta, \beta^4) = \beta^{5\,\mathrm{ind}\,5}(c + d\sqrt{-15}), \tag{4.5}$$

$$J_{15}(\beta, \beta^5) = \theta\beta^{6\,\mathrm{ind}\,3-5\,\mathrm{ind}\,5}\sum_{j=0}^{7} b_j\beta^j, \tag{4.6}$$

$$J_{15}(\beta^3, \beta^3) = \beta^{-6\,\mathrm{ind}\,2}\left(x + u\sqrt{-5 - 2\sqrt{5}} + v\sqrt{-5 + 2\sqrt{5}} + w\sqrt{5}\right), \tag{4.7}$$

$$J_{15}(\beta^5, \beta^5) = \beta^{5\,\mathrm{ind}\,2}(a + b\sqrt{-3}), \tag{4.8}$$

where a, b, c, d, x, u, v, w are integers satisfying (1.8), (1.9) *and* (1.10), *and $\theta = \pm 1$ is defined in Theorem* 1.

Proof. We begin by examining $\beta^{10\,\mathrm{ind}\,2}J_{15}(\beta^5, \beta^5)$. Clearly, this quantity is of the form $B_0 + B_1\beta^5$, where B_0 and B_1 are integers. We show that B_1 is always even. We set $\omega = \beta^5 = \frac{1}{2}(-1 + \sqrt{-3})$ and consider three cases according to the value of ind 2 modulo 3.

If $\operatorname{ind} 2 \equiv 0 \pmod 3$, then it is known that $(0,0)_3 \equiv 1 \pmod 2$ [1, Lemma 2]. Now as

$$9(0,0)_3 = \sum_{m,n=0}^{2} J_3(\omega^m, \omega^n)$$

and

$$J_3(\omega^m, \omega^n) = J_{15}(\beta^{5m}, \beta^{5n}) = \begin{cases} p-2 & \text{if } m = n = 0, \\ B_0 + B_1\omega & \text{if } m = n = 1, \\ B_0 + B_1\omega^2 & \text{if } m = n = 2, \\ -1 & \text{otherwise,} \end{cases}$$

we have

$$9(0,0)_3 = p - 8 + 2B_0 + B_1(\omega + \omega^2) = p - 8 + 2B_0 - B_1,$$

giving

$$1 \equiv 1 - B_1 \pmod 2, \qquad B_1 \equiv 0 \pmod 2.$$

If $\operatorname{ind} 2 \equiv 1 \pmod 3$, then in this case we have $(0,1)_3 \equiv 1 \pmod 2$ [1, Lemma 2]. As

$$9(0,1)_3 = \sum_{m,n=0}^{2} J_3(\omega^m, \omega^n)\omega^{-n},$$

and

$$J_3(\omega^m, \omega^n) = J_{15}(\beta^{5m}, \beta^{5n}) = \begin{cases} p-2 & \text{if } m = n = 0, \\ \omega(B_0 + B_1\omega) & \text{if } m = n = 1, \\ \omega^2(B_0 + B_1\omega^2) & \text{if } m = n = 2, \\ -1 & \text{otherwise,} \end{cases}$$

we have

$$9(0,1)_3 = p - 2 + 2B_0 - B_1,$$

giving $1 \equiv 1 - B_1 \pmod 2$, $B_1 \equiv 0 \pmod 2$.

If $\operatorname{ind} 2 \equiv 2 \pmod 3$, then in this case we have $(0,2)_3 \equiv 1 \pmod 2$ [1, Lemma 2]. As

$$9(0,2)_3 = \sum_{m,n=0}^{2} J_3(\omega^m, \omega^n)\omega^n$$

and

$$J_3(\omega^m, \omega^n) = J_{15}(\beta^{5m}, \beta^{5n}) = \begin{cases} p-2 & \text{if } m = n = 0, \\ \omega^2(B_0 + B_1\omega) & \text{if } m = n = 1, \\ \omega(B_0 + B_1\omega^2) & \text{if } m = n = 2, \\ -1 & \text{otherwise,} \end{cases}$$

we have

$$9(0,2)_3 = p - 2 + 2B_0 - B_1,$$

giving

$$1 \equiv 1 - B_1 \pmod 2, \qquad B_1 \equiv 0 \pmod 2.$$

As $B_1 \equiv 0 \pmod 2$ in all three cases, we may define an integer b by $B_1 = 2b$. Then we have

$$\beta^{10\,\mathrm{ind}\,2} J_{15}(\beta^5, \beta^5) = B_0 + 2b\left(\frac{-1+\sqrt{-3}}{2}\right) = a + b\sqrt{-3},$$

where $a = B_0 - b$. This completes the proof of (4.8). From (2.2) we have

$$p = J_{15}(\beta^5, \beta^5) J_{15}(\beta^{10}, \beta^{10}) = \beta^{5\,\mathrm{ind}\,2}(a + b\sqrt{-3})\beta^{10\,\mathrm{ind}\,2}(a - b\sqrt{-3})$$

so that $p = a^2 + 3b^2$. Cubing (4.8), and using (2.4), we obtain

$$a \equiv a^3 \equiv (a + b\sqrt{-3})^3 \equiv J_{15}(\beta^5, \beta^5)^3 \equiv J_{15}(1,1) \equiv -1 \pmod 3.$$

This completes the proof of (1.8).

We next determine $J_{15}(\beta^3, \beta^3)$. Appealing to [9, p. 345] we have

$$J_{15}(\beta^3, \beta^3) = \beta^{-6\,\mathrm{ind}\,2} \sum_{j=0}^{4} t_j \beta^{3j}, \tag{4.9}$$

where t_0, t_1, t_2, t_3, t_4 are integers such that

$$t_0 + t_1 + t_2 + t_3 + t_4 = -1, \tag{4.10}$$

$$5t_0 + 1 = 4x, \tag{4.11}$$

$$t_1 + t_2 - t_3 - t_4 = 4u, \tag{4.12}$$

$$t_1 - t_2 + t_3 - t_4 = 4v, \tag{4.13}$$

$$t_1 - t_2 - t_3 + t_4 = 4w, \tag{4.14}$$

where x, u, v, w are integers satisfying (1.10). Then, as

$$\beta^3 = \tfrac{1}{4}\left(\sqrt{5} - 1 + \sqrt{-10 - 2\sqrt{5}}\right), \qquad \beta^6 = \tfrac{1}{4}\left(-\sqrt{5} - 1 + \sqrt{-10 + 2\sqrt{5}}\right),$$

$$\beta^9 = \tfrac{1}{4}\left(-\sqrt{5} - 1 - \sqrt{-10 + 2\sqrt{5}}\right), \qquad \beta^{12} = \tfrac{1}{4}\left(\sqrt{5} - 1 - \sqrt{-10 - 2\sqrt{5}}\right),$$

we obtain from (4.9)

$$\beta^{6\,\mathrm{ind}\,2} J_{15}(\beta^3, \beta^3) = t_0 - \tfrac{1}{4}(t_1 + t_2 + t_3 + t_4) + \frac{\sqrt{5}}{4}(t_1 - t_2 - t_3 + t_4)$$
$$+ \frac{\sqrt{-10 - 2\sqrt{5}}}{4}(t_1 - t_4) + \frac{\sqrt{-10 + 2\sqrt{5}}}{4}(t_2 - t_3).$$

Now as

$$\sqrt{-10 - 2\sqrt{5}} = \sqrt{-5 - 2\sqrt{5}} + \sqrt{-5 + 2\sqrt{5}}$$

and

$$\sqrt{-10 + 2\sqrt{5}} = \sqrt{-5 - 2\sqrt{5}} - \sqrt{-5 + 2\sqrt{5}},$$

we obtain, using (4.10)–(4.14),

$$\begin{aligned}
&\beta^{6\,\mathrm{ind}\,2} J_{15}(\beta^3, \beta^3) \\
&\quad = \frac{1}{4}(5t_0 + 1) + \frac{\sqrt{5}}{4}(t_1 - t_2 - t_3 + t_4) \\
&\qquad + \tfrac{1}{4}\sqrt{-5 - 2\sqrt{5}}\,(t_1 + t_2 - t_3 - t_4) + \tfrac{1}{4}\sqrt{-5 + 2\sqrt{5}}\,(t_1 - t_2 + t_3 - t_4) \\
&\quad = x + u\sqrt{-5 - 2\sqrt{5}} + v\sqrt{-5 + 2\sqrt{5}} + w\sqrt{5},
\end{aligned}$$

which is (1.6).

Next we evaluate $J_{15}(\beta, \beta^3)$. We have

$$\begin{aligned} J_{15}(\beta,\beta^3) &= \frac{G_{15}(\beta)G_{15}(\beta^3)}{G_{15}(\beta^4)} && \text{(by (2.8))} \\ &= \theta\beta^{3\,\mathrm{ind}\,3-5\,\mathrm{ind}\,5}AC^2/BD && \text{(by Theorem 1)} \\ &= \beta^{-3\,\mathrm{ind}\,3}\frac{G_{15}(\beta^3)^2}{G_{15}(\beta^6)} && \text{(by Theorem 1)} \\ &= \beta^{-3\,\mathrm{ind}\,3}J_{15}(\beta^3,\beta^3) && \text{(by (2.8))} \\ &= \beta^{-6\,\mathrm{ind}\,2-3\,\mathrm{ind}\,3}\left(x + u\sqrt{-5-2\sqrt{5}} + v\sqrt{-5+2\sqrt{5}} + w\sqrt{5}\right) \\ & && \text{(by Theorem 1).} \end{aligned}$$

This completes the proof of (4.4). The relationship between $J_{15}(\beta, \beta^3)$ and $J_{15}(\beta^3, \beta^3)$ was obtained by Dickson [5, p. 198].

Next we show that $\beta^{10\,\mathrm{ind}\,5}J_{15}(\beta, \beta^4)$ is an element of $Q(\sqrt{-15})$. To do this we must show that it is invariant under σ_2. We have

$$\begin{aligned} \sigma_2\left(\beta^{10\,\mathrm{ind}\,5}J_{15}(\beta,\beta^4)\right) &= \beta^{5\,\mathrm{ind}\,5}J_{15}(\beta^2,\beta^8) \\ &= \beta^{5\,\mathrm{ind}\,5}\frac{G_{15}(\beta^2)G_{15}(\beta^8)}{G_{15}(\beta^{10})} && \text{(by (2.8))} \\ &= \theta\beta^{-3\,\mathrm{ind}\,3}AB/C && \text{(by Theorem 1)} \\ &= \beta^{10\,\mathrm{ind}\,5}\frac{G_{15}(\beta)G_{15}(\beta^4)}{G_{15}(\beta^5)} && \text{(by Theorem 1)} \\ &= \beta^{10\,\mathrm{ind}\,5}J_{15}(\beta,\beta^4). \end{aligned}$$

As observed by Muskat [14, p. 497], this invariance property follows from the work of Dickson [5, Section 14]. Hence $\beta^{10\,\mathrm{ind}\,5}J_{15}(\beta, \beta^4)$ is an integer of $Q(\sqrt{-15})$ and so there are rational integers r and s of the same parity such that $\beta^{10\,\mathrm{ind}\,5}J_{15}(\beta, \beta^4) = \frac{1}{2}(r + s\sqrt{-15})$. From (2.2) we obtain $p = \frac{1}{4}(r^2 + 15s^2)$. Clearly r and s cannot both be odd, so there are integers c and d such that $r = 2c$, $s = 2d$, $p = c^2 + 15d^2$, and $\beta^{10\,\mathrm{ind}\,5}J_{15}(\beta, \beta^4) = c + d\sqrt{-15}$. This completes the proof of (4.5). The equation (4.5) was give by Muskat in [14, p. 498]. Cubing (4.5), we obtain

$$c \equiv c^3 \equiv (c + d\sqrt{-15})^3 \equiv J_{15}(\beta,\beta^4)^3 \equiv J_{15}(\beta^3,\beta^{12}) \equiv -1 \pmod 3.$$

This completes the proof of (1.9).

Next we show that

$$J_{15}(\beta,\beta^2) = \theta\beta^{3\,\mathrm{ind}\,3-5\,\mathrm{ind}\,5}J_{15}(\beta,\beta^4). \tag{4.15}$$

By (2.8) we have

$$\frac{J_{15}(\beta,\beta^2)}{J_{15}(\beta,\beta^4)} = \frac{G_{15}(\beta^2)G_{15}(\beta^5)}{G_{15}(\beta^3)G_{15}(\beta^4)}. \tag{4.16}$$

Appealing to Theorem 1, the right-hand side of (4.16) reduces to $\theta\beta^{3\,\mathrm{ind}\,3-5\,\mathrm{ind}\,5}$, which proves (4.15). The equation (4.3) then follows from (4.5) and (4.15).

Finally, we show that

$$J_{15}(\beta,\beta^5) = \theta\beta^{6\,\mathrm{ind}\,3-5\,\mathrm{ind}\,5}J_{15}(\beta,\beta). \tag{4.17}$$

By (2.8) and Theorem 1 we have

$$\frac{J_{15}(\beta,\beta^5)}{J_{15}(\beta,\beta)} = \frac{G_{15}(\beta^2)G_{15}(\beta^5)}{G_{15}(\beta)G_{15}(\beta^6)} = \theta\beta^{6\,\mathrm{ind}\,3-5\,\mathrm{ind}\,5}.$$

This relationship is given in Dickson [5, p. 199].

This completes the proof of Theorem 2, as $J_{15}(\beta,\beta)$ can obviously be expressed in the form (4.2), $1,\beta,\ldots,\beta^7$ being an integral basis for $Q(\beta)$. □

In the next theorem we give Muskat's determination of θ.

THEOREM 3 (MUSKAT [14, Eq. (102)]). *For* θ $(=\pm 1)$ *as defined in Theorem* 1, *we have*

$$\theta \equiv -c \pmod 5.$$

Proof. Raising (4.3) to the fifth power, we obtain

$$-1 \equiv J_{15}(\beta^5,\beta^{10}) \equiv \left(J_{15}(\beta,\beta^2)\right)^5 \equiv \theta^5(c + d\sqrt{-15})^5 \equiv \theta c \pmod 5$$

as required. □

Theorem 3 shows that the value of θ is given by

$$\theta = \begin{cases} +1 & \text{if } c \equiv -1 \pmod 5, \\ -1 & \text{if } c \equiv 1 \pmod 5. \end{cases} \tag{4.18}$$

The same technique enables us to determine ind 10 (mod 3) as well as an alternative determination of θ.

THEOREM 4. *With the notation of Theorem* 2, *we have*

$$\mathrm{ind}\,10 \equiv \begin{cases} 0 \pmod 3 & \text{if } b \equiv 0 \pmod 5, \\ 1 \pmod 3 & \text{if } a \equiv b \pmod 5, \\ 2 \pmod 3 & \text{if } a \equiv -b \pmod 5, \end{cases} \tag{4.19}$$

and

$$\theta \equiv \begin{cases} -a \pmod 5 & \text{if } b \equiv 0 \pmod 5, \\ 2a \pmod 5 & \text{if } b \not\equiv 0 \pmod 5. \end{cases} \tag{4.20}$$

Proof. Raising (4.17) to the fifth power, we obtain

$$\begin{aligned} -1 &\equiv J_{15}(\beta^5,\beta^{10}) \equiv J_{15}(\beta^5,\beta^{25}) \equiv \left\{J_{15}(\beta,\beta^5)\right\}^5 \\ &\equiv \theta^5\beta^{5\,\mathrm{ind}\,5}\left\{J_{15}(\beta,\beta)\right\}^5 \equiv \theta\beta^{5\,\mathrm{ind}\,5}J_{15}(\beta^5,\beta^5) \\ &\equiv \theta\beta^{5\,\mathrm{ind}\,2+5\,\mathrm{ind}\,5}(a + b\sqrt{-3}) \pmod 5, \end{aligned}$$

that is,

$$a + b\sqrt{-3} \equiv -\theta\omega^{-\mathrm{ind}\,10} \pmod 5. \tag{4.21}$$

If $\mathrm{ind}\,10 \equiv 0 \pmod 3$, (4.21) gives

$$a \equiv -\theta \pmod 5, \qquad b \equiv 0 \pmod 5.$$

If $\operatorname{ind} 10 \equiv 1 \pmod 3$, (4.21) gives

$$a \equiv b \equiv \theta/2 \pmod 5.$$

If $\operatorname{ind} 10 \equiv 2 \pmod 3$, (4.21) gives

$$a \equiv -b \equiv \theta/2 \pmod 5.$$

This completes the proof of Theorem 4. □

We note that Theorem 4 gives the following evaluation of θ,

$$\theta = \begin{cases} +1 & \text{if } a \equiv -1 \pmod 5,\ b \equiv 0 \pmod 5 \text{ or} \\ & \quad a \equiv -2 \pmod 5,\ b \not\equiv 0 \pmod 5, \\ -1 & \text{if } a \equiv 1 \pmod 5,\ b \equiv 0 \pmod 5 \text{ or} \\ & \quad a \equiv 2 \pmod 5,\ b \not\equiv 0 \pmod 5. \end{cases} \tag{4.22}$$

Putting Theorems 3 and 4 together, we get

COROLLARY 1. *With the notation of Theorem* 2,

$$\begin{cases} a \equiv c \pmod 5 & \text{if } b \equiv 0 \pmod 5, \\ a \equiv 2c \pmod 5 & \text{if } b \not\equiv 0 \pmod 5. \end{cases} \tag{4.23}$$

Finally we apply the method once more to obtain $\operatorname{ind} 18 \pmod 5$.

THEOREM 5. *With the notation of Theorem* 2, *we have*

$$\operatorname{ind} 18 \equiv \begin{cases} 0 \pmod 5 & \text{if } u \equiv v \equiv w \equiv 0 \pmod 3, \\ 1 \pmod 5 & \text{if } x \equiv -u \equiv v \equiv w \pmod 3, \\ 2 \pmod 5 & \text{if } x \equiv u \equiv v \equiv -w \pmod 3, \\ 3 \pmod 5 & \text{if } -x \equiv u \equiv v \equiv w \pmod 3, \\ 4 \pmod 5 & \text{if } x \equiv u \equiv -v \equiv w \pmod 3. \end{cases} \tag{4.24}$$

Proof. Working modulo 3 we have

$$\begin{aligned} &\beta^{-6\operatorname{ind}2}\left(x + u\sqrt{-5 - 2\sqrt{5}} + v\sqrt{-5 + 2\sqrt{5}} + w\sqrt{5}\right) \\ &\quad \equiv J_{15}(\beta^3, \beta^3) && \text{(by Theorem 2)} \\ &\quad \equiv J_{15}(\beta^3, \beta^9) && \text{(by (2.1))} \\ &\quad \equiv \left\{J_{15}(\beta, \beta^3)\right\}^3 \\ &\quad \equiv \beta^{-3\operatorname{ind}2 - 9\operatorname{ind}3}\left(\left(x + u\sqrt{-5 - 2\sqrt{5}} + v\sqrt{-5 + 2\sqrt{5}}\right) + w\sqrt{5}\right)^3 \\ &\qquad && \text{(by Theorem 2)} \\ &\quad \equiv \beta^{-3\operatorname{ind}2 - 9\operatorname{ind}3}\left(x + u(-5 - 2\sqrt{5})\sqrt{-5 - 2\sqrt{5}} + v(-5 + 2\sqrt{5})\right. \\ &\qquad \left. \times\sqrt{-5 + 2\sqrt{5}} + 5w\sqrt{5}\right), \end{aligned}$$

which, using

$$\sqrt{5}\sqrt{-5 - 2\sqrt{5}} = 2\sqrt{-5 - 2\sqrt{5}} + \sqrt{-5 + 2\sqrt{5}}$$

and

$$\sqrt{5}\sqrt{-5 + 2\sqrt{5}} = \sqrt{-5 - 2\sqrt{5}} - 2\sqrt{-5 + 2\sqrt{5}},$$

gives

$$x + u\sqrt{-5 - 2\sqrt{5}} + v\sqrt{-5 + 2\sqrt{5}} + w\sqrt{5}$$
$$\equiv \beta^{3\,\mathrm{ind}\,18}\left(x - v\sqrt{-5 - 2\sqrt{5}} + u\sqrt{-5 + 2\sqrt{5}} - w\sqrt{5}\right) \pmod 3.$$

Equating coefficients (mod 3) for each residue class of ind 18 (mod 5), we obtain the theorem. We just give the details in the case $\mathrm{ind}\,18 \equiv 2 \pmod 5$. Replacing β^6 by its expression in terms of radicals, we obtain modulo 3,

$$\begin{aligned} x + u\sqrt{-5 - 2\sqrt{5}} + v\sqrt{-5 + 2\sqrt{5}} + w\sqrt{5} &\equiv \left(-\sqrt{5} - 1 + \sqrt{-5 - 2\sqrt{5}} - \sqrt{-5 + 2\sqrt{5}}\right) \\ &\quad \times \left(x - v\sqrt{-5 - 2\sqrt{5}} + u\sqrt{-5 + 2\sqrt{5}} - w\sqrt{5}\right) \\ &\equiv (-x - u - v - w) + (x - u - w)\sqrt{-5 - 2\sqrt{5}} \\ &\quad + (-x + u + v)\sqrt{-5 + 2\sqrt{5}} + (-x + v + w)\sqrt{5}, \end{aligned}$$

that is,

$$x \equiv u \equiv v \equiv -w \pmod 3. \quad \square$$

5. Determination of Dickson-Hurwitz Sums $B_{15}(i, v)$. For any integers i and v, the Dickson-Hurwitz sum $B_{15}(i, v)$ is defined by

$$B_{15}(i, v) = \sum_{h=0}^{14} (h, i - vh)_{15}, \tag{5.1}$$

where the cyclotomic number $(h, k)_{15}$ was defined in (1.1). The Jacobi sums $J_{15}(\beta^n, \beta^{nv})$ and the Dickson-Hurwitz sums $B_{15}(i, v)$ are related by the formula (see, for example, [14, p. 489])

$$J_{15}(\beta^n, \beta^{nv}) = \sum_{i=0}^{14} B_{15}(i, v)\beta^{ni}. \tag{5.2}$$

The Dickson-Hurwitz sums have the well-known properties (see, for example, [14, p. 490])

$$B_{15}(i, v) = B_{15}(i, 14 - v) \tag{5.3}$$

and

$$B_{15}(i, 0) = B_{15}(i, 14) = \begin{cases} f - 1 & \text{if } 15 \mid i, \\ f & \text{if } 15 \nmid i. \end{cases} \tag{5.4}$$

Taking $n = 0$ in (5.2), we obtain

$$\sum_{i=0}^{14} B_{15}(i, v) = p - 2. \tag{5.5}$$

From (5.3) and (5.4) we see that the values of all the $15^2 = 225$ Dickson-Hurwitz sums $B_{15}(i, v)$ $(i, v = 0, 1, \ldots, 14)$ are known, once the values of the $14 \times 7 = 98$ sums $B_{15}(i, v)$ $(i = 0, 1, \ldots, 14;\ v = 1, 2, \ldots, 7)$ have been determined.

In addition, Whiteman [18, Lemma 1] has shown that if $(v, 15) = 1$,

$$B_{15}(i, v) = B_{15}(iv^{-1}, v^{-1}), \tag{5.6}$$

where $vv^{-1} \equiv 1 \pmod{15}$. Taking $v = 13, 2, 11$ and 4 in (5.6), and appealing to (5.3) as necessary, we obtain successively

$$\begin{cases} B_{15}(i,1) = B_{15}(7i,7), \\ B_{15}(i,2) = B_{15}(8i,6), \\ B_{15}(i,3) = B_{15}(11i,3), \\ B_{15}(i,4) = B_{15}(4i,4). \end{cases} \tag{5.7}$$

We now indicate how to form the system of linear equations, which has the 15 Dickson-Hurwitz sums $B_{15}(i,v)$, $(i = 0,1,2,\ldots,14)$ as solutions. The first equation is given by (5.5). The second and third equations are derived by equating the coefficients of 1 and $\sqrt{-3}$ in (5.2) (with $n = 5$) and appealing to (2.3) and Theorem 2 for the values of $J_{15}(\beta^5, \beta^{5v})$ $(v = 1,\ldots,7)$. The fourth, fifth, sixth and seventh equations are obtained by equating the coefficients of $1, \beta^2 + \beta^7, \beta^3$ and β^6 in (5.2) (with $n = 3$) and using (2.3) and Theorem 2 for the values of $J_{15}(\beta^3, \beta^{3v})$ $(v = 1,\ldots,7)$. The eighth to fifteenth equations are obtained by equating the coefficients of $1, \beta, \beta^2, \ldots, \beta^7$ in (5.2) (with $n = 1$) and using (2.3) and Theorem 2 for the values of $J_{15}(\beta, \beta^v)$ $(v = 1,\ldots,7)$. The resulting 15 linear equations in the 15 unknowns $B_{15}(0,v), \ldots, B_{15}(14,v)$ can be expressed in the form

$$MB(v) = C(v), \tag{5.8}$$

where the 15×15 coefficient matrix M is independent of v and given by

$$M = \begin{bmatrix}
1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 \\
2 & -1 & -1 & 2 & -1 & -1 & 2 & -1 & -1 & 2 & -1 & -1 & 2 & -1 & -1 \\
0 & 1 & -1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 & 1 & -1 \\
1 & 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\
0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 \\
0 & 1 & 0 & -1 & 0 & 0 & 1 & 0 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\
0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\
1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & -1 & -1 & 0 & 0 & 1 & 1 \\
0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\
0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & -1 & 0 & -1 \\
0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 & 0 & 0 & 1 \\
0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & -1 & -1 \\
0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & -1 & 0 & -1 & 0 & 0 & 1 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & -1 & 0 & -1 & 0 & 0 & 1 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 & -1 & -1 & -1
\end{bmatrix} \tag{5.9}$$

and

$$B(v) = \begin{bmatrix} B_{15}(0,v) \\ B_{15}(1,v) \\ \vdots \\ B_{15}(14,v) \end{bmatrix}, \qquad C(v) = \begin{bmatrix} C_1(v) \\ C_2(v) \\ \vdots \\ C_{15}(v) \end{bmatrix}, \tag{5.10}$$

where the vector $C(v)$ $(v = 1,\ldots,7)$ depends upon p, a, b, c, d, x, u, v, w, $b_0,\ldots,b_7$. The list below gives the number of values taken by each vector $C(v)$ $(v = 1,\ldots,7)$. The numbers of these values depend upon which of the quantities ind 2 (mod 3), ind 2 (mod 5), ind 3 (mod 5), ind 5 (mod 3), and c (mod 5) are involved.

v	number of values of $C(v)$	parameters involved
1	15	ind 2 (mod 3), ind 2 (mod 5)
2	50	ind 2 (mod 5), ind 3 (mod 5), c (mod 5)
3	25	ind 2 (mod 5), ind 3 (mod 5)
4	9	ind 2 (mod 3), ind 5 (mod 3)
5	30	ind 3 (mod 5), ind 5 (mod 3), c (mod 5)
6	50	ind 2 (mod 5), ind 3 (mod 5), c (mod 5)
7	15	ind 2 (mod 3), ind 2 (mod 5)

Thus there are 194 cases to be considered. However, to save space, we will not give the values of the vectors $C(v)$ here.

Inverting the matrix M in (5.9), the matrix equation (5.8) becomes

$$30B(v) = NC(v), \qquad v = 1,2,\ldots,7, \tag{5.11}$$

where

$$N = \begin{bmatrix}
2 & 2 & 0 & 8 & 2 & -2 & -2 & 16 & 2 & 2 & -4 & 2 & -8 & -4 & 2 \\
2 & -1 & 3 & -2 & 2 & 8 & -2 & 2 & 16 & 2 & 2 & -4 & 2 & -8 & -4 \\
2 & -1 & -3 & -2 & 2 & -2 & 8 & 2 & 2 & 16 & 2 & 2 & -4 & 2 & -8 \\
2 & 2 & 0 & -2 & 2 & -2 & -2 & -4 & 2 & 2 & 16 & 2 & 2 & -4 & 2 \\
2 & -1 & 3 & -2 & -8 & -2 & -2 & 2 & -4 & 2 & 2 & 16 & 2 & 2 & -4 \\
2 & -1 & -3 & 8 & 2 & -2 & -2 & -8 & 2 & -4 & 2 & 2 & 16 & 2 & 2 \\
2 & 2 & 0 & -2 & 2 & 8 & -2 & -4 & -8 & 2 & -4 & 2 & 2 & 16 & 2 \\
2 & -1 & 3 & -2 & 2 & -2 & 8 & 2 & -4 & -8 & 2 & -4 & 2 & 2 & 16 \\
2 & -1 & -3 & -2 & 2 & -2 & -2 & 2 & 2 & -4 & -8 & 2 & -4 & 2 & 2 \\
2 & 2 & 0 & -2 & -8 & -2 & -2 & -4 & 2 & 2 & -4 & -8 & 2 & -4 & 2 \\
2 & -1 & 3 & 8 & 2 & -2 & -2 & -8 & -4 & 2 & 2 & -4 & -8 & 2 & -4 \\
2 & -1 & -3 & -2 & 2 & 8 & -2 & 2 & -8 & -4 & 2 & 2 & -4 & -8 & 2 \\
2 & 2 & 0 & -2 & 2 & -2 & 8 & -4 & 2 & -8 & -4 & 2 & 2 & -4 & -8 \\
2 & -1 & 3 & -2 & 2 & -2 & -2 & 2 & -4 & 2 & -8 & -4 & 2 & 2 & -4 \\
2 & -1 & -3 & -2 & -8 & -2 & -2 & 2 & 2 & -4 & 2 & -8 & -4 & 2 & 2
\end{bmatrix}. \tag{5.12}$$

The calculation of the 15×1 vector $NC(v)$ in each of the 194 cases indicated above was then carried out on a Digital Professional 350 microcomputer to obtain the values of the Dickson-Hurwitz sums $B_{15}(i,v)$ $(i = 0,1,\ldots,14;\ v = 1,2,\ldots,7)$. In view of (5.7) it is only necessary to have the values of

$$\begin{cases} B_{15}(i,v) & (i = 0,1,\ldots,14;\ v = 1,2,5), \\ B_{15}(i,3) & (i = 0,1,2,3,4,5,6,8,9,12), \\ B_{15}(i,4) & (i = 0,1,2,3,5,6,7,10,11), \end{cases} \tag{5.13}$$

to be able to deduce the values of all of them. In order to save space we do not list the values of these sums here.

6. Calculation of the Cyclotomic Numbers $(h,k)_{15}$. The cyclotomic numbers $(h,k)_{15}$ have the properties (see, for example, [18, p. 96])

$$(h,k)_{15} = (k,h)_{15} = (15-h,k-h)_{15}. \tag{6.1}$$

Appealing to (6.1), we see that each of the $15^2 = 225$ cyclotomic numbers $(h, k)_{15}$ is equal to one of the 46 cyclotomic numbers

$$(6.2)\qquad \begin{cases} (0,k)_{15}, & k = 0,1,\ldots,14, \\ (1,k)_{15}, & k = 2,\ldots,13, \\ (2,k)_{15}, & k = 4,\ldots,12, \\ (3,k)_{15}, & k = 6,\ldots,11, \\ (4,k)_{15}, & k = 8,9,10, \\ (5,10)_{15}. \end{cases}$$

The relationships between the cyclotomic numbers are exhibited in the matrix near the end of this section, in which $(h, k)_{15}$ is in row h $(0 \leqslant h \leqslant 14)$ and column k $(0 \leqslant k \leqslant 14)$.

In order to determine explicit formulae for the cyclotomic numbers in (6.2), we express each cyclotomic number in terms of the Dickson-Hurwitz sums $B_{15}(i, v)$ and then appeal to the formulae for these sums derived in Section 5. These calculations were performed on a Digital Professional 350 microcomputer.

The formula used to express the cyclotomic numbers in terms of the Dickson-Hurwitz sums is given in Theorem 6 below. This formula is the special case $e = 15$, $x = 3$, $y = 5$, $q = p$ of Theorem 7 in [8], simplified using (5.7).

THEOREM 6. *Let $p = 15f + 1$ be prime and set $\delta_r = 1$, if $r \equiv 0 \pmod{15}$, and $\delta_r = 0$, if $r \not\equiv 0 \pmod{15}$. Then we have*

$$\begin{aligned} 3375(r,s)_{15} = {} & 226p - 451 - 225(\delta_r + \delta_s + \delta_{r-s}) \\ & + 30(\delta_{5r} + \delta_{5s}) + 60(\delta_{3r} + \delta_{3s}) \\ & + S_1 + S_2 + S_3 + S_4 + S_5, \end{aligned}$$

where

$$\begin{aligned} S_1 = {} & 15 \cdot 15B_{15}(r+s,1) \\ & + 7(15B_{15}(r+13s,1) + 15B_{15}(13r+s,1)) \\ & - 3\sum_{t=1}^{4}(15B_{15}(r+13s+3t,1) + 15B_{15}(13r+s+3t,1)) \\ & - 5\sum_{t=1}^{2}(15B_{15}(r+13s+5t,1) + 15B_{15}(13r+s+5t,1)), \\ S_2 = {} & 7(15B_{15}(r+2s,2) + 15B_{15}(r+12s,2) + 15B_{15}(12r+2s,2) \\ & + 15B_{15}(2r+s,2) + 15B_{15}(12r+s,2) + 15B_{15}(2r+12s,2)) \\ & - 3\sum_{t=1}^{4}(15B_{15}(r+2s+3t,2) + 15B_{15}(r+12s+3t,2) \\ & + 15B_{15}(12r+2s+3t,2) + 15B_{15}(2r+s+3t,2) \\ & + 15B_{15}(12r+s+3t,2) + 15B_{15}(2r+12s+3t,2)) \end{aligned}$$

$$-5\sum_{t=1}^{2}(15B_{15}(r+2s+5t,2)+15B_{15}(r+12s+5t,2)$$
$$+15B_{15}(12r+2s+5t,2)+15B_{15}(2r+s+5t,2)$$
$$+15B_{15}(12r+s+5t,2)+15B_{15}(2r+12s+5t,2))$$
$$-5\sum_{t=0}^{2}(15B_{15}(2r+s+5t,2)+15B_{15}(r+2s+5t,2)),$$
$$S_3=7(15B_{15}(r+3s,3)+15B_{15}(r+11s,3)+15B_{15}(3r+s,3))$$
$$-3\sum_{t=1}^{4}(15B_{15}(r+3s+3t,3)+15B_{15}(r+11s+3t,3)$$
$$+15B_{15}(3r+s+3t,3))$$
$$-5\sum_{t=1}^{2}(15B_{15}(r+3s+5t,3)+15B_{15}(r+11s+5t,3)$$
$$+15B_{15}(3r+s+5t,3)),$$
$$S_4=7(15B_{15}(r+4s,4)+15B_{15}(r+10s,4)+15B_{15}(10r+s,4))$$
$$-3\sum_{t=1}^{4}(15B_{15}(r+4s+3t,4)+15B_{15}(r+10s+3t,4)$$
$$+15B_{15}(10r+s+3t,4))$$
$$-5\sum_{t=1}^{2}(15B_{15}(r+4s+5t,4)+15B_{15}(r+10s+5t,4)$$
$$+15B_{15}(10r+s+5t,4)),$$
$$S_5=7(15B_{15}(r+5s,5)+15B_{15}(r+9s,5)+15B_{15}(5r+s,5)$$
$$+15B_{15}(9r+s,5))$$
$$+13(15B_{15}(5r+9s,5)+15B_{15}(9r+5s,5))$$
$$-3\sum_{t=1}^{4}(15B_{15}(r+5s+3t,5)+15B_{15}(r+9s+3t,5)$$
$$+15B_{15}(5r+s+3t,5)+15B_{15}(9r+s+3t,5))$$
$$-5\sum_{t=1}^{2}(15B_{15}(r+5s+5t,5)+15B_{15}(r+9s+5t,5)$$
$$+15B_{15}(5r+s+5t,5)+15B_{15}(9r+s+5t,5))$$
$$-\sum_{t=1}^{4}(15B_{15}(5r+9s+3t,5)+15B_{15}(9r+5s+3t,5))$$
$$-\sum_{t=1}^{2}(15B_{15}(5r+9s+5t,5)+15B_{15}(9r+5s+5t,5)).$$

The resulting expressions for the cyclotomic numbers (6.2) are given in Tables 1–70. These tables are given on microfiche cards inserted inside the back cover of this issue. Each number $225(h,k)_{15}$ is given as an integral linear combination of p,

1, a, b, c, d, x, u, v, w, b_0, b_1, b_2, b_3, b_4, b_5, b_6, b_7. Not all 450 cases are given, as they can be deduced from the given tables by replacing the primitive root g by the primitive root g^m, where $(m, p-1) = 1$, for a suitable value of m.

It is easy to check that the effect of this replacement is as follows:

$$\operatorname{ind} k \to m \operatorname{ind} k, \qquad k = 2, 3, 5,$$

$$(r, s)_{15} \to (mr, ms)_{15},$$

$$(a, b) \to \begin{cases} (a, b) & \text{if } m \equiv 1 \pmod 3, \\ (a, -b) & \text{if } m \equiv 2 \pmod 3, \end{cases}$$

$$(c, d) \to \begin{cases} (c, d) & \text{if } m \equiv 1, 2, 4, 8 \pmod{15}, \\ (c, -d) & \text{if } m \equiv 7, 11, 13, 14 \pmod{15}, \end{cases}$$

$$(x, u, v, w) \to \begin{cases} (x, u, v, w) & \text{if } m \equiv 1 \pmod 5, \\ (x, -v, u, -w) & \text{if } m \equiv 2 \pmod 5, \\ (x, v, -u, -w) & \text{if } m \equiv 3 \pmod 5, \\ (x, -u, -v, w) & \text{if } m \equiv 4 \pmod 5, \end{cases}$$

and that

$$\begin{bmatrix} b_0 \\ b_1 \\ \vdots \\ b_7 \end{bmatrix}$$

is transformed as follows:

$m \equiv 1 \pmod{15}$	$m \equiv 2 \pmod{15}$	$m \equiv 4 \pmod{15}$	$m \equiv 7 \pmod{15}$
b_0	$b_0 - b_1 - b_3 - b_5$	$b_0 - b_2 - b_6 + b_7$	$b_0 + b_1 - b_3$
b_1	$b_1 + b_2 - b_7$	$b_2 + b_4 - b_7$	$-b_1 - b_2 + b_7$
b_2	$b_3 + b_4$	$-b_3 + b_6$	b_3
b_3	$-b_1 - b_3 + b_6$	$-b_2 - b_6$	$-b_3 + b_6$
b_4	b_1	$b_1 + b_2 - b_7$	$-b_1$
b_5	$-b_1 - b_5$	$-b_2 + b_5 + b_7$	$b_1 + b_5$
b_6	$-b_3 - b_7$	$-b_6$	$-b_2 - b_3$
b_7	$b_1 + b_3$	$b_2 - b_3 + b_6 - b_7$	$-b_1 + b_3 + b_4$

$m \equiv 8 \pmod{15}$	$m \equiv 11 \pmod{15}$	$m \equiv 13 \pmod{15}$	$m \equiv 14 \pmod{15}$
$b_0 - b_4 - b_5 + b_7$	$b_0 + b_4 - b_5$	$b_0 + b_2 + b_4$	$b_0 + b_1 + b_2 - b_5 - b_6 - b_7$
b_4	$-b_1$	$-b_4$	$-b_2 - b_4 + b_7$
$b_1 - b_6 - b_7$	$-b_4 + b_7$	$-b_2 - b_6$	$-b_1 - b_3 + b_6$
$-b_4 + b_7$	$b_3 + b_4$	$+b_2$	$b_1 - b_6 - b_7$
$b_2 + b_4 - b_7$	$-b_4$	$-b_2 - b_4 + b_7$	$-b_1 - b_2 + b_7$
$-b_4 - b_5$	$-b_5$	$b_4 + b_5$	$b_2 - b_5 - b_7$
$b_3 + b_7$	$-b_1 + b_4 + b_6$	$b_2 + b_3$	$b_1 - b_4 - b_6$
$b_4 - b_6 - b_7$	$b_2 - b_4$	$b_1 - b_2 - b_4 - b_6$	$-b_1 - b_2 - b_3 + b_6 + b_7$

Finally, we show how to find $(2, 4)_{15}$ when

$$\text{(6.3)} \qquad \begin{aligned} &\operatorname{ind} 2 \equiv 0 \pmod 3, \quad \operatorname{ind} 2 \equiv 1 \pmod 5, \quad \operatorname{ind} 3 \equiv 0 \pmod 5, \\ &\operatorname{ind} 5 \equiv 2 \pmod 3, \quad c \equiv -1 \pmod 5. \end{aligned}$$

We use the formula for $(1,8)_{15}$ given in Table 12, as replacing g by g^m, where $(m, p-1) = 1$ and $m \equiv 11 \pmod{15}$, in the parameters specifying Table 12 gives (6.3), and $(1,8)_{15} \to (11,88)_{15} = (11,13)_{15} = (2,4)_{15}$. Replacing

$$(a, b, c, d, x, u, v, w, b_0, b_1, b_2, b_3, b_4, b_5, b_6, b_7)$$

by

$$(a, -b, c, -d, x, u, v, w, b_0 + b_4 - b_5, -b_1, -b_4 + b_7, b_3 + b_4, -b_4, -b_5, -b_1 + b_4 + b_6, b_2 - b_4)$$

in

$$225(1,8)_{15} = p + 1 + 2a - c - 15d - 5x + 5u + 15v - 5w + b_0 + 5b_1 - b_2 + 11b_3 - 10b_4 - 4b_5 - 4b_6 + 20b_7,$$

we obtain

$$225(2,4)_{15} = p + 1 + 2a - c + 15d - 5x + 5u + 15v - 5w + b_0 - b_1 + 20b_2 + 11b_3 - b_4 - 5b_5 - 4b_6 - b_7.$$

As a check on the correctness of the tables, the values of a, b, c, d, x, u, v, w, b_0, $b_1, \ldots, b_7$ were calculated for 150 pairs (p, g), where p is a prime congruent to 1 modulo 15 in the range $31 \leqslant p \leqslant 5581$ and g is a primitive root modulo p. For each pair (p, g) a cyclotomic number was chosen at random and its value calculated from the appropriate table. The resulting value was then compared with the value of the cyclotomic number computed directly. In every case the two values agreed.

For example, using the values of a, b, c, d, x, u, v, w, b_0, $b_1, \ldots, b_7$ given in Section 1 for $p = 61$, $g = 2$ in Table 50, we find that of the 46 cyclotomic numbers listed in (6.2) only the following are nonzero:

$$(0,1)_{15} = (1,6)_{15} = (1,10)_{15} = (1,12)_{15} = (2,4)_{15} = (2,6)_{15} = (2,7)_{15} = (3,6)_{15} = (3,11)_{15} = (5,10)_{15} = 1,$$

$$(0,8)_{15} = 2.$$

These values are easily checked by direct calculation.

Relationships among cyclotomic numbers $(h,k)_{15}$

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
0	0,0	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9	0,10	0,11	0,12	0,13	0,14
1	0,1	0,14	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	1,10	1,11	1,12	1,13	1,2
2	0,2	1,2	0,13	1,13	2,4	2,5	2,6	2,7	2,8	2,9	2,10	2,11	2,12	2,4	1,3
3	0,3	1,3	1,13	0,12	1,12	2,12	3,6	3,7	3,8	3,9	3,10	3,11	3,6	2,5	1,4
4	0,4	1,4	2,4	1,12	0,11	1,11	2,11	3,11	4,8	4,9	4,10	4,8	3,7	2,6	1,5
5	0,5	1,5	2,5	2,12	1,11	0,10	1,10	2,10	3,10	4,10	5,10	4,9	3,8	2,7	1,6
6	0,6	1,6	2,6	3,6	2,11	1,10	0,9	1,9	2,9	3,9	4,9	4,10	3,9	2,8	1,7
7	0,7	1,7	2,7	3,7	3,11	2,10	1,9	0,8	1,8	2,8	3,8	4,8	3,10	2,9	1,8
8	0,8	1,8	2,8	3,8	4,8	3,10	2,9	1,8	0,7	1,7	2,7	3,7	3,11	2,10	1,9
9	0,9	1,9	2,9	3,9	4,9	4,10	3,9	2,8	1,7	0,6	1,6	2,6	3,6	2,11	1,10
10	0,10	1,10	2,10	3,10	4,10	5,10	4,9	3,8	2,7	1,6	0,5	1,5	2,5	2,12	1,11
11	0,11	1,11	2,11	3,11	4,8	4,9	4,10	4,8	3,7	2,6	1,5	0,4	1,4	2,4	1,12
12	0,12	1,12	2,12	3,6	3,7	3,8	3,9	3,10	3,11	3,6	2,5	1,4	0,3	1,3	1,13
13	0,13	1,13	2,4	2,5	2,6	2,7	2,8	2,9	2,10	2,11	2,12	2,4	1,3	0,2	1,2
14	0,14	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	1,10	1,11	1,12	1,13	1,2	0,1

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TABLE 1: IND 2 = 0 (MOD 5), IND 2 = 0 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	-24	0	36	0	0	0	-24	-3	-3	
225(0, 1) =	1	-14	-1	3	-2	-30	-3	5	35	25	13	-6	3	-
225(0, 2) =	1	-14	-1	-3	-2	-30	-3	35	-5	-25	13	-2	-6	-1
225(0, 3) =	1	-14	2	0	16	0	-9	-5	35	5	-14	-3	7	
225(0, 4) =	1	-14	-1	3	-2	-30	-3	-5	-35	25	13	4	-2	
225(0, 5) =	1	-14	-1	-3	-12	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	2	0	16	0	-9	35	5	-5	-14	-3	-3	1
225(0, 7) =	1	-14	-1	3	-2	30	-3	35	-5	-25	13	4	3	-1
225(0, 8) =	1	-14	-1	-3	-2	-30	-3	-35	5	-25	13	3	4	
225(0, 9) =	1	-14	2	0	16	0	-9	-35	-5	-5	-14	7	-8	
225(0,10) =	1	-14	-1	3	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-2	30	-3	5	35	25	13	3	-6	-
225(0,12) =	1	-14	2	0	16	0	-9	5	-35	5	-14	-8	-3	-1
225(0,13) =	1	-14	-1	3	-2	30	-3	-35	5	-25	13	-6	13	
225(0,14) =	1	-14	-1	-3	-2	30	-3	-5	-35	25	13	13	4	
225(1, 2) =	1	1	2	0	-2	0	0	0	0	-20	-2	16	6	
225(1, 3) =	1	1	-1	3	-2	0	-3	15	-15	5	-2	-6	-2	1
225(1, 4) =	1	1	-1	-3	13	-45	12	0	0	-20	-2	13	9	
225(1, 5) =	1	1	2	0	-2	0	0	-10	20	10	-2	-9	6	-
225(1, 6) =	1	1	-1	3	-2	60	-3	-5	-5	-5	-2	-11	-2	
225(1, 7) =	1	1	-1	-3	-2	0	-3	15	15	-5	-2	-2	9	
225(1, 8) =	1	1	2	0	-2	0	0	0	0	20	-2	6	-14	-
225(1, 9) =	1	1	-1	3	-2	0	-3	-15	-15	-5	-2	-11	3	-1
225(1,10) =	1	1	-1	-3	-2	-60	-3	5	5	-5	-2	-12	-6	-
225(1,11) =	1	1	2	0	-2	0	0	10	-20	10	-2	1	1	-1
225(1,12) =	1	1	-1	3	13	45	12	0	0	-20	-2	-11	-12	
225(1,13) =	1	1	-1	-3	-2	0	-3	-15	15	5	-2	3	-11	-
225(2, 4) =	1	1	2	0	-2	0	0	0	0	20	-2	-9	16	-
225(2, 5) =	1	1	-1	3	-2	-60	-3	5	-5	5	-2	4	-12	1
225(2, 6) =	1	1	-1	-3	-2	0	-3	-15	-15	-5	-2	-2	-6	-1
225(2, 7) =	1	1	2	0	-2	0	0	-20	-10	-10	-2	6	1	1
225(2, 8) =	1	1	-1	3	13	-45	12	0	0	20	-2	9	13	-
225(2, 9) =	1	1	-1	-3	13	45	12	0	0	20	-2	-12	-11	-
225(2,10) =	1	1	2	0	-2	0	0	20	10	-10	-2	1	-9	-
225(2,11) =	1	1	-1	3	-2	0	-3	15	15	-5	-2	4	3	
225(2,12) =	1	1	-1	-3	-2	60	-3	-5	5	5	-2	3	-11	-1
225(3, 6) =	1	1	2	0	-14	0	6	0	0	-10	16	-3	7	-1
225(3, 7) =	1	1	-1	3	-2	0	-3	-15	15	5	-2	9	-2	-
225(3, 8) =	1	1	-1	-3	-2	60	-3	5	-5	5	-2	-2	24	1
225(3, 9) =	1	1	2	0	-14	0	6	0	0	10	16	7	-3	-
225(3,10) =	1	1	-1	3	-2	-60	-3	-5	5	5	-2	-6	-2	-1
225(3,11) =	1	1	-1	-3	-2	0	-3	15	-15	5	-2	3	4	1
225(4, 8) =	1	1	2	0	-2	0	0	0	0	-20	-2	-14	-9	
225(4, 9) =	1	1	-1	3	-2	60	-3	5	5	-5	-2	24	3	-
225(4,10) =	1	1	-1	-3	-2	-60	-3	-5	-5	-5	-2	-2	4	
225(5,10) =	1	1	2	0	48	0	0	0	0	0	48	6	6	-1

TABLE 2: IND 2 = 0 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	
225(0, 0) =	1	-44	2	0	72	0	36	0	0	0	72	9	9	-1
225(0, 1) =	1	-14	-1	3	-2	90	-3	5	35	25	-7	34	3	
225(0, 2) =	1	-14	-1	-3	-2	90	-3	35	-5	-25	-7	-2	34	2
225(0, 3) =	1	-14	2	0	-8	0	-9	-5	35	5	2	9	-1	2
225(0, 4) =	1	-14	-1	3	-2	90	-3	-5	-35	25	-7	-16	-3	
225(0, 5) =	1	-14	-1	-3	-12	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	2	0	-8	0	-9	35	5	-5	2	-11	9	
225(0, 7) =	1	-14	-1	3	-2	-90	-3	35	-5	-25	-7	4	-17	2
225(0, 8) =	1	-14	-1	-3	-2	90	-3	-35	5	-25	-7	3	-16	-1
225(0, 9) =	1	-14	2	0	-8	0	-9	-35	-5	-5	2	-1	4	-1
225(0,10) =	1	-14	-1	3	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-2	-90	-3	5	35	25	-7	-17	-6	
225(0,12) =	1	-14	2	0	-8	0	-9	5	-35	5	2	4	-11	
225(0,13) =	1	-14	-1	3	-2	-90	-3	-35	5	-25	-7	-6	-7	-1
225(0,14) =	1	-14	-1	-3	-2	-90	-3	-5	-35	25	-7	-7	4	
225(1, 2) =	1	1	2	0	-10	0	0	0	0	-20	10	-10	-10	
225(1, 3) =	1	1	-1	3	8	-30	-3	15	-15	5	-2	14	8	
225(1, 4) =	1	1	-1	-3	-7	15	12	0	0	-20	-2	-7	-1	
225(1, 5) =	1	1	2	0	10	0	0	-10	20	10	-10	-5	0	
225(1, 6) =	1	1	-1	3	-2	0	-3	-5	-5	-5	8	-1	-2	
225(1, 7) =	1	1	-1	-3	8	-30	-3	15	15	-5	-2	8	-1	
225(1, 8) =	1	1	2	0	-10	0	0	0	0	20	10	-10	20	-1
225(1, 9) =	1	1	-1	3	8	30	-3	-15	-15	-5	-2	-1	-7	
225(1,10) =	1	1	-1	-3	-2	0	-3	5	5	-5	8	-2	-6	
225(1,11) =	1	1	2	0	10	0	0	10	-20	10	-10	5	-5	
225(1,12) =	1	1	-1	3	-7	-15	12	0	0	-20	-2	-1	8	
225(1,13) =	1	1	-1	-3	8	30	-3	-15	15	5	-2	-7	-1	
225(2, 4) =	1	1	2	0	-10	0	0	0	0	20	10	5	-10	-1
225(2, 5) =	1	1	-1	3	-2	0	-3	5	-5	5	8	4	-2	
225(2, 6) =	1	1	-1	-3	8	-30	-3	-15	-15	-5	-2	8	14	
225(2, 7) =	1	1	2	0	10	0	0	-20	-10	-10	-10	0	5	
225(2, 8) =	1	1	-1	3	-7	15	12	0	0	20	-2	-1	-7	
225(2, 9) =	1	1	-1	-3	-7	-15	12	0	0	20	-2	8	-1	
225(2,10) =	1	1	2	0	10	0	0	20	10	-10	-10	-5	-5	-1
225(2,11) =	1	1	-1	3	8	30	-3	15	15	-5	-2	-16	-7	
225(2,12) =	1	1	-1	-3	-2	0	-3	-5	5	5	8	3	-1	
225(3, 6) =	1	1	2	0	2	0	6	0	0	-10	-8	-1	-1	
225(3, 7) =	1	1	-1	3	8	-30	-3	-15	15	5	-2	-1	8	
225(3, 8) =	1	1	-1	-3	-2	0	-3	5	-5	5	8	-2	4	
225(3, 9) =	1	1	2	0	2	0	6	0	0	10	-8	-1	-1	
225(3,10) =	1	1	-1	3	-2	0	-3	-5	5	5	8	-6	8	
225(3,11) =	1	1	-1	-3	8	30	-3	15	-15	5	-2	-7	-16	
225(4, 8) =	1	1	2	0	-10	0	0	0	0	-20	10	20	5	
225(4, 9) =	1	1	-1	3	-2	0	-3	5	5	-5	8	4	3	
225(4,10) =	1	1	-1	-3	-2	0	-3	-5	-5	-5	8	8	4	
225(5,10) =	1	1	2	0	0	0	0	0	0	0	0	0	0	

TABLE 31 IND 2 = 0 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 1 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	-60	0	36	0	0	0	48	-3	15	-1
225(0, 1) =	1	-14	-1	3	-2	-90	-3	5	35	25	13	24	3	-
225(0, 2) =	1	-14	-1	-3	4	-60	-3	35	-5	-25	-17	-2	24	1
225(0, 3) =	1	-14	2	0	10	-30	-9	-5	35	5	-2	-3	-5	1
225(0, 4) =	1	-14	-1	3	-2	-90	-3	-5	-35	25	13	4	-2	
225(0, 5) =	1	-14	-1	-3	24	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	2	0	10	30	-9	35	5	-5	-2	-3	15	-
225(0, 7) =	1	-14	-1	3	-2	90	-3	35	-5	-25	13	4	3	1
225(0, 8) =	1	-14	-1	-3	4	-60	-3	-35	5	-25	-17	3	-26	
225(0, 9) =	1	-14	2	0	10	30	-9	-35	-5	-5	-2	7	10	-1
225(0,10) =	1	-14	-1	3	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	-3	4	60	-3	5	35	25	-17	-27	-6	-
225(0,12) =	1	-14	2	0	10	-30	-9	5	-35	5	-2	-8	-15	-
225(0,13) =	1	-14	-1	3	-2	90	-3	-35	5	-25	13	-6	-17	-2
225(0,14) =	1	-14	-1	-3	4	60	-3	-5	-35	25	-17	13	4	
225(1, 2) =	1	1	2	0	7	15	0	0	0	-20	7	-14	-3	1
225(1, 3) =	1	1	-1	3	-2	30	-3	15	-15	5	-2	9	-2	-
225(1, 4) =	1	1	-1	-3	4	-30	12	0	0	-20	-2	-2	9	-1
225(1, 5) =	1	1	2	0	-8	30	0	-10	20	10	-8	-9	-3	
225(1, 6) =	1	1	-1	3	-2	0	-3	-5	-5	-5	-2	-11	-2	
225(1, 7) =	1	1	-1	-3	-11	15	-3	15	15	-5	-2	13	-6	
225(1, 8) =	1	1	2	0	7	-15	0	0	0	20	7	-9	7	-2
225(1, 9) =	1	1	-1	3	-2	-30	-3	-15	-15	-5	-2	-11	3	
225(1,10) =	1	1	-1	-3	4	-30	-3	5	5	-5	13	3	-6	-
225(1,11) =	1	1	2	0	-8	30	0	10	-20	10	-8	1	-8	-
225(1,12) =	1	1	-1	3	13	15	12	0	0	-20	-2	4	3	
225(1,13) =	1	1	-1	-3	-11	-15	-3	-15	15	5	-2	3	4	-
225(2, 4) =	1	1	2	0	7	-15	0	0	0	20	7	6	7	
225(2, 5) =	1	1	-1	3	-2	0	-3	5	-5	5	-2	4	-12	-
225(2, 6) =	1	1	-1	-3	-11	15	-3	-15	-15	-5	-2	-2	9	
225(2, 7) =	1	1	2	0	-8	-30	0	-20	-10	-10	-8	6	7	1
225(2, 8) =	1	1	-1	3	13	-15	12	0	0	20	-2	-6	-2	-
225(2, 9) =	1	1	-1	-3	4	30	12	0	0	20	-2	3	-11	1
225(2,10) =	1	1	2	0	-8	-30	0	20	10	-10	-8	1	-3	-
225(2,11) =	1	1	-1	3	-2	-30	-3	15	15	-5	-2	-11	-12	-1
225(2,12) =	1	1	-1	-3	4	30	-3	-5	5	5	13	3	4	-1
225(3, 6) =	1	1	2	0	-5	-15	6	0	0	-10	-2	-3	-5	-
225(3, 7) =	1	1	-1	3	-2	30	-3	-15	15	5	-2	9	13	1
225(3, 8) =	1	1	-1	-3	4	30	-3	5	-5	5	13	-2	9	-
225(3, 9) =	1	1	2	0	-5	15	6	0	0	10	-2	7	0	
225(3,10) =	1	1	-1	3	-2	0	-3	-5	5	5	-2	-6	13	
225(3,11) =	1	1	1	-3	-11	-15	-3	15	-15	5	-2	-12	-11	-
225(4, 8) =	1	1	2	0	7	15	0	0	0	-20	7	16	-3	-
225(4, 9) =	1	1	-1	3	-2	0	-3	5	5	-5	-2	9	3	-
225(4,10) =	1	1	-1	-3	4	-30	-3	-5	-5	-5	13	-2	4	
225(4,10) =	1	1	2	0	12	0	0	0	0	0	12	6	-3	-

TABLE 4: IND 2 = 0 (MOD 3), IND 3 = 0 (MOD 5), IND 2 = 0 (MOD 5), IND 5 = 1 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	36	0	36	0	0	0	0	9	-9	
225(0, 1) =	1	-14	-1	3	-2	30	-3	5	35	25	-7	4	3	-3
225(0, 2) =	1	-14	-1	-3	4	60	-3	35	-5	-25	23	-2	4	-1
225(0, 3) =	1	-14	2	0	14	-30	-9	-5	35	5	-10	9	11	1
225(0, 4) =	1	-14	-1	3	-2	30	-3	-5	-35	25	-7	-16	-2	
225(0, 5) =	1	-14	-1	-3	24	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	2	0	-14	30	-9	35	5	-5	-10	-11	-9	1
225(0, 7) =	1	-14	-1	3	-2	-30	-3	35	-5	-25	-7	4	-17	-1
225(0, 8) =	1	-14	-1	-3	4	60	-3	-35	5	-25	23	3	14	-1
225(0, 9) =	1	-14	2	0	-14	30	-9	-35	-5	-5	-10	-1	-14	
225(0,10) =	1	-14	-1	3	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	-3	4	-60	-3	5	35	25	23	13	-6	-1
225(0,12) =	1	-14	2	0	-14	-30	-9	5	-35	5	-10	4	1	-1
225(0,13) =	1	-14	-1	3	-2	-30	-3	-35	5	-25	-7	-6	23	1
225(0,14) =	1	-14	-1	-3	4	-60	-3	-5	-35	25	23	-7	4	
225(1, 2) =	1	1	2	0	-1	15	0	0	0	-20	1	20	-1	-1
225(1, 3) =	1	1	-1	3	8	0	-3	15	-15	5	-2	-1	8	
225(1, 4) =	1	1	-1	-3	-16	30	12	0	0	-20	-2	8	-1	
225(1, 5) =	1	1	2	0	4	30	0	-10	20	10	-4	-5	9	
225(1, 6) =	1	1	-1	3	-2	-60	-3	-5	-5	-5	8	-1	-2	
225(1, 7) =	1	1	-1	-3	-1	-15	-3	15	15	-5	-2	-7	14	-1
225(1, 8) =	1	1	2	0	-1	-15	0	0	0	20	1	5	-1	1
225(1, 9) =	1	1	-1	3	8	0	-3	-15	-15	-5	-2	-1	-7	-1
225(1,10) =	1	1	-1	-3	4	30	-3	5	5	-5	-7	-17	-6	-1
225(1,11) =	1	1	2	0	4	30	0	10	-20	10	-4	5	4	-1
225(1,12) =	1	1	-1	3	-7	-45	12	0	0	-20	-2	-16	-7	-1
225(1,13) =	1	1	-1	-3	-1	15	-3	-15	15	5	-2	-7	-16	
225(2, 4) =	1	1	2	0	-1	-15	0	0	0	20	1	-10	-1	-1
225(2, 5) =	1	1	-1	3	-2	60	-3	5	-5	5	8	4	-2	
225(2, 6) =	1	1	-1	-3	-1	-15	-3	-15	-15	-5	-2	8	-1	-1
225(2, 7) =	1	1	2	0	4	-30	0	-20	-10	-10	-4	0	-1	1
225(2, 8) =	1	1	-1	3	-7	45	12	0	0	20	-2	14	8	
225(2, 9) =	1	1	-1	-3	-16	-30	12	0	0	20	-2	-7	-1	-1
225(2,10) =	1	1	2	0	4	-30	0	20	10	-10	-4	-5	-11	-1
225(2,11) =	1	1	-1	3	8	0	-3	15	15	-5	-2	-1	3	
225(2,12) =	1	1	-1	-3	4	-30	-3	-5	5	5	-7	3	-16	-1
225(3, 6) =	1	1	2	0	11	-15	6	0	0	-10	10	-1	11	-1
225(3, 7) =	1	1	-1	3	8	0	-3	-15	15	5	-2	-1	-7	-1
225(3, 8) =	1	1	-1	-3	4	-30	-3	5	-5	5	-7	-2	19	
225(3, 9) =	1	1	2	0	11	15	6	0	0	10	10	-1	-4	
225(3,10) =	1	1	-1	3	-2	60	-3	-5	5	5	8	-6	-7	-1
225(3,11) =	1	1	-1	-3	-1	15	-3	15	-15	5	-2	8	-1	
225(4, 8) =	1	1	2	0	-1	15	0	0	0	-20	1	-10	-1	1
225(4, 9) =	1	1	-1	3	-2	-60	-3	5	5	-5	8	19	3	-1
225(4,10) =	1	1	-1	-3	4	30	-3	-5	-5	-5	-7	8	4	
225(5,10) =	1	1	2	0	-36	0	0	0	0	0	36	0	9	-1

TABLE 5: IND 2 = 0 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	36	0	6	30	30	30	36	-3	-3	
225(0, 1) =	1	-14	-1	3	-2	90	-3	25	-5	5	13	14	3	-2
225(0, 2) =	1	-14	-1	-3	-2	30	-13	5	5	-15	3	8	24	
225(0, 3) =	1	-14	2	0	-4	0	-9	-5	-25	-15	6	7	7	2
225(0, 4) =	1	-14	-1	3	-12	0	7	5	-5	-5	-17	-6	-2	1
225(0, 5) =	1	-14	-1	-3	-12	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	2	0	16	0	-9	-5	25	-25	-14	-13	-3	-
225(0, 7) =	1	-14	-1	3	-2	-30	-13	5	5	-15	3	-16	3	
225(0, 8) =	1	-14	-1	-3	8	60	-3	-35	5	15	3	13	-26	-
225(0, 9) =	1	-14	2	0	-24	0	1	-25	-35	25	-14	-3	-8	-1
225(0,10) =	1	-14	-1	3	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-2	-90	-3	25	-5	5	13	-7	-6	-2
225(0,12) =	1	-14	2	0	16	0	11	5	5	-15	6	2	-3	
225(0,13) =	1	-14	-1	3	8	-60	-3	-35	5	15	3	4	13	-
225(0,14) =	1	-14	-1	-3	-12	0	7	5	-5	-5	-17	3	4	1
225(1, 2) =	1	1	2	0	-12	0	0	-10	0	-10	8	-4	-9	
225(1, 3) =	1	1	-1	3	-2	-60	2	-10	10	-10	3	14	-2	-
225(1, 4) =	1	1	-1	-3	3	-45	-3	5	15	5	-7	-7	9	-
225(1, 5) =	1	1	2	0	-2	0	0	10	10	20	-2	-4	6	
225(1, 6) =	1	1	-1	3	3	45	-8	-10	-20	10	13	-6	-2	-
225(1, 7) =	1	1	-1	-3	3	-45	-3	5	-15	-25	-7	8	-6	
225(1, 8) =	1	1	2	0	-2	0	5	5	-5	5	3	11	16	-
225(1, 9) =	1	1	-1	3	3	-45	12	-10	0	-10	8	-16	3	-
225(1,10) =	1	1	-1	-3	-2	0	-3	-5	25	5	-2	-7	-6	
225(1,11) =	1	1	2	0	18	0	-5	5	-5	-5	-2	6	1	-
225(1,12) =	1	1	-1	3	3	45	-3	5	15	5	-7	-1	-12	-
225(1,13) =	1	1	-1	-3	13	15	2	-10	-20	20	-12	-7	4	
225(2, 4) =	1	1	2	0	-2	0	5	5	-5	5	3	19	-14	-
225(2, 5) =	1	1	-1	3	-2	-30	2	20	-10	0	3	14	-12	
225(2, 6) =	1	1	-1	-3	3	45	12	-10	0	-10	8	8	9	-
225(2, 7) =	1	1	2	0	8	0	0	-20	20	0	-12	1	1	
225(2, 8) =	1	1	-1	3	-2	30	2	20	10	20	3	-1	13	
225(2, 9) =	1	1	-1	-3	-2	-30	2	20	10	20	3	8	-11	
225(2,10) =	1	1	2	0	-2	0	-10	20	-10	0	-12	-4	-9	-1
225(2,11) =	1	1	-1	3	3	45	-3	5	-15	-25	-7	-1	3	
225(2,12) =	1	1	-1	-3	-7	15	-3	-5	5	-15	3	-2	4	
225(3, 6) =	1	1	2	0	-14	0	-4	-10	10	20	6	2	7	
225(3, 7) =	1	1	-1	3	13	-15	2	-10	-20	20	-12	-1	-2	
225(3, 8) =	1	1	-1	-3	-2	30	2	20	-10	0	3	-7	9	
225(3, 9) =	1	1	2	0	6	0	6	20	0	-10	-4	2	-3	
225(3,10) =	1	1	-1	3	-7	-15	-3	-5	5	-15	3	-11	-2	
225(3,11) =	1	1	-1	-3	-2	60	2	-10	10	-10	3	-7	-11	
225(4, 8) =	1	1	2	0	-12	0	0	-10	0	-10	8	11	6	
225(4, 9) =	1	1	-1	3	-2	0	-3	-5	25	5	-2	14	3	
225(4,10) =	1	1	-1	-3	3	-45	-8	-10	-20	10	13	3	4	
225(5,10) =	1	1	2	0	18	0	15	-15	-15	-15	18	6	6	-

TABLE 6: IND 2 = 0 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 0 (

	P	I	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	12	0	6	30	30	30	12	9	9	-1
225(0, 1) =	1	-14	-1	3	-2	-30	-3	25	-5	5	-7	14	3	1
225(0, 2) =	1	-14	-1	-3	-2	30	-13	5	5	-15	3	-12	4	
225(0, 3) =	1	-14	2	0	12	0	-9	-5	-25	-15	-18	-1	-1	
225(0, 4) =	1	-14	-1	3	8	60	7	5	-5	-5	23	-6	-2	-
225(0, 5) =	1	-14	-1	-3	-12	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	2	0	-8	0	-9	-5	25	-25	2	-1	9	1
225(0, 7) =	1	-14	-1	3	-2	-30	-13	5	5	-15	3	24	-17	
225(0, 8) =	1	-14	-1	-3	-12	0	-3	-35	5	15	3	-7	14	-
225(0, 9) =	1	-14	2	0	32	0	1	-25	-35	25	2	9	4	
225(0,10) =	1	-14	-1	3	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-2	30	-3	25	-5	5	-7	-7	-6	1
225(0,12) =	1	-14	2	0	-8	0	11	5	5	-15	-18	-6	-11	-1
225(0,13) =	1	-14	-1	3	-12	0	-3	-35	5	15	3	-16	-7	-
225(0,14) =	1	-14	-1	-3	8	-60	7	5	-5	-5	23	3	4	-
225(1, 2) =	1	1	2	0	0	0	0	-10	0	-10	0	10	5	
225(1, 3) =	1	1	-1	3	8	30	2	-10	10	-10	-7	-6	8	1
225(1, 4) =	1	1	-1	-3	3	15	-3	5	15	5	3	13	-1	
225(1, 5) =	1	1	2	0	10	0	0	10	10	20	-10	-10	0	
225(1, 6) =	1	1	-1	3	-7	15	-8	-10	-20	10	-7	-6	-2	
225(1, 7) =	1	1	-1	-3	3	15	-3	5	-15	-25	3	-2	14	-1
225(1, 8) =	1	1	2	0	-10	0	5	5	-5	5	5	-15	-10	-
225(1, 9) =	1	1	-1	3	3	75	12	-10	0	-10	-12	4	-7	
225(1,10) =	1	1	-1	-3	-2	-60	-3	-5	25	5	8	-7	-6	-1
225(1,11) =	1	1	2	0	-10	0	-5	5	-5	-5	-10	0	-5	-1
225(1,12) =	1	1	-1	3	3	-15	-3	5	15	5	3	-11	8	
225(1,13) =	1	1	-1	-3	-7	15	2	-10	-20	20	8	3	-16	-
225(2, 4) =	1	1	2	0	-10	0	5	5	-5	5	5	15	20	-
225(2, 5) =	1	1	-1	3	-2	-30	2	20	-10	0	3	-6	-2	
225(2, 6) =	1	1	-1	-3	3	-75	12	-10	0	-10	-12	-2	-1	
225(2, 7) =	1	1	2	0	0	0	0	-20	20	0	0	5	5	2
225(2, 8) =	1	1	-1	3	8	-60	2	20	10	20	-7	9	-7	-
225(2, 9) =	1	1	-1	-3	8	60	2	20	10	20	-7	-12	-1	-
225(2,10) =	1	1	2	0	10	0	-10	20	-10	0	0	0	-5	
225(2,11) =	1	1	-1	3	3	-15	-3	5	-15	-25	3	-11	-7	-1
225(2,12) =	1	1	-1	-3	3	45	-3	-5	5	-15	3	8	-16	-
225(3, 6) =	1	1	2	0	2	0	-4	-10	10	20	2	-6	-1	-
225(3, 7) =	1	1	-1	3	-7	-15	2	-10	-20	20	8	9	8	-
225(3, 8) =	1	1	-1	-3	-2	30	2	20	-10	0	3	3	19	
225(3, 9) =	1	1	2	0	-18	0	6	20	0	-10	12	4	-1	1
225(3,10) =	1	1	-1	3	3	-45	-3	-5	5	-15	3	-1	8	-
225(3,11) =	1	1	-1	-3	8	-30	2	-10	10	-10	-7	3	-1	1
225(4, 8) =	1	1	2	0	0	0	0	-10	0	-10	0	-5	-10	
225(4, 9) =	1	1	-1	3	-2	60	-3	-5	25	5	8	14	3	-1
225(4,10) =	1	1	-1	-3	-7	-15	-8	-10	-20	10	-7	3	4	
225(5,10) =	1	1	2	0	30	0	15	-15	-15	-15	30	0	0	

TABLE 7: IND 2 = 0 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	0	0	6	30	30	30	18	-3	15	-12
225(0, 1) =	1	-14	-1	3	-2	30	-3	25	-5	5	-17	14	3	6
225(0, 2) =	1	-14	-1	-3	4	0	-13	5	5	15	3	-22	-6	3
225(0, 3) =	1	-14	2	0	-10	-30	-9	-5	-25	-15	-12	7	-5	6
225(0, 4) =	1	-14	-1	3	-12	-60	7	5	-5	-5	13	-6	-2	-12
225(0, 5) =	1	-14	-1	-3	24	0	12	0	0	0	-12	3	-6	3
225(0, 6) =	1	-14	2	0	10	30	-9	-5	25	-25	-2	-13	15	6
225(0, 7) =	1	-14	-1	3	-2	30	-13	5	5	-15	3	14	-27	1
225(0, 8) =	1	-14	-1	-3	14	30	-3	-35	5	15	3	13	4	-2
225(0, 9) =	1	-14	2	0	-30	30	1	-25	-35	25	-2	-3	10	-2
225(0,10) =	1	-14	-1	3	-12	0	12	0	0	0	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	4	-60	-3	25	-5	5	13	-7	-6	6
225(0,12) =	1	-14	2	0	10	-30	11	5	5	-15	-12	2	-15	-12
225(0,13) =	1	-14	-1	3	8	0	-3	-35	5	15	3	4	13	-2
225(0,14) =	1	-14	-1	-3	-6	30	7	5	-5	-5	13	3	4	12
225(1, 2) =	1	1	2	0	-3	15	0	-10	0	-10	17	11	-3	-12
225(1, 3) =	1	1	-1	3	-2	-30	2	-10	10	-10	-12	-1	13	6
225(1, 4) =	1	1	-1	-3	-6	-30	-3	5	15	5	9	8	9	6
225(1, 5) =	1	1	2	0	-8	30	0	10	10	20	-8	-4	-3	2
225(1, 6) =	1	1	-1	3	3	-15	-8	-10	-20	10	-2	-6	-2	13
225(1, 7) =	1	1	-1	-3	-6	-30	-3	5	-15	-25	-7	8	9	-2
225(1, 8) =	1	1	2	0	7	-15	5	5	-5	5	12	-19	7	-12
225(1, 9) =	1	1	-1	3	3	-75	12	-10	0	-10	-7	-1	-12	6
225(1,10) =	1	1	-1	-3	4	30	-3	-5	25	5	-2	-7	-6	-2
225(1,11) =	1	1	2	0	12	30	-5	5	-5	-5	-8	6	-8	-6
225(1,12) =	1	1	-1	3	3	15	-3	5	15	5	-7	-16	3	-2
225(1,13) =	1	1	-1	-3	4	0	2	-10	-20	20	3	-7	-11	6
225(2, 4) =	1	1	2	0	7	-15	5	5	-5	5	-3	11	7	2
225(2, 5) =	1	1	-1	3	-2	30	2	20	-10	0	3	-1	3	3
225(2, 6) =	1	1	-1	-3	-6	60	12	-10	0	-10	-7	-7	-6	-2
225(2, 7) =	1	1	2	0	2	-30	0	-20	20	0	-3	1	7	12
225(2, 8) =	1	1	-1	3	-2	60	2	20	10	20	3	14	-2	6
225(2, 9) =	1	1	-1	-3	-11	-45	2	20	10	20	-12	-7	-11	-2
225(2,10) =	1	1	2	0	-8	-30	-10	20	-10	0	-3	-4	-3	-2
225(2,11) =	1	1	-1	3	3	15	-3	5	-15	-25	8	-1	3	-2
225(2,12) =	1	1	-1	-3	-1	-15	-3	-5	5	-15	3	-2	-11	-2
225(3, 6) =	1	1	2	0	-5	-15	-4	-10	10	20	3	2	-5	-2
225(3, 7) =	1	1	-1	3	13	15	2	-10	-20	20	3	-1	-2	-2
225(3, 8) =	1	1	-1	-3	4	0	2	20	-10	0	3	8	24	3
225(3, 9) =	1	1	2	0	15	15	6	20	0	-10	8	2	0	6
225(3,10) =	1	1	-1	3	-7	45	-3	-5	5	-15	3	-11	-2	-2
225(3,11) =	1	1	-1	-3	-11	45	2	-10	10	-10	3	3	4	6
225(4, 8) =	1	1	2	0	-3	15	0	-10	0	-10	-13	-4	-3	12
225(4, 9) =	1	1	-1	3	-2	-60	-3	-5	25	5	13	14	3	-2
225(4,10) =	1	1	-1	-3	9	-15	-8	-10	-20	10	-2	3	4	-2
225(5,10) =	1	1	2	0	-18	0	15	-15	-15	-15	27	6	-3	-2

TABLE 8: IND 2 = 0 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 1

	P	1	A	B	C	D	X	U	V	M	B0	B1	B2	
225(0, 0) =	1	-44	2	0	-24	0	6	30	30	30	30	9	-9	
225(0, 1) =	1	-14	-1	3	-2	-90	-3	25	-5	5	23	14	3	-1
225(0, 2) =	1	-14	-1	-3	4	0	-13	5	5	-15	3	18	34	
225(0, 3) =	1	-14	2	0	6	-30	-9	-5	-25	-15	0	-1	11	
225(0, 4) =	1	-14	-1	3	8	0	7	5	-5	-5	-7	-6	-2	
225(0, 5) =	1	-14	-1	-3	24	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	2	0	-14	30	-9	-5	25	-25	-10	-1	-9	
225(0, 7) =	1	-14	-1	3	-2	30	-13	5	5	-15	3	-6	13	
225(0, 8) =	1	-14	-1	-3	-6	-30	-3	-35	5	15	3	-7	-16	
225(0, 9) =	1	-14	2	0	26	30	1	-25	-35	25	-10	9	-14	-1
225(0,10) =	1	-14	-1	3	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	-3	4	60	-3	25	-5	5	-7	-7	-6	-1
225(0,12) =	1	-14	2	0	-14	-30	11	5	5	-15	0	-6	1	
225(0,13) =	1	-14	-1	3	-12	60	-3	-35	5	15	3	-16	-7	
225(0,14) =	1	-14	-1	-3	14	-30	7	5	-5	-5	-7	3	4	
225(1, 2) =	1	1	2	0	9	15	0	-10	0	-10	-9	-5	-1	
225(1, 3) =	1	1	-1	3	8	60	2	-10	10	-10	8	9	7	
225(1, 4) =	1	1	-1	-3	-6	30	-3	5	15	5	-12	-2	-1	-1
225(1, 5) =	1	1	2	0	4	30	0	10	10	20	-4	-10	9	
225(1, 6) =	1	1	-1	3	-7	-45	-8	-10	-20	10	8	-6	-2	
225(1, 7) =	1	1	-1	-3	-6	30	-3	5	-15	-25	3	-2	-1	
225(1, 8) =	1	1	2	0	-1	-15	5	5	-5	5	-4	15	-1	
225(1, 9) =	1	1	-1	3	3	45	12	-10	0	-10	3	-11	8	-1
225(1,10) =	1	1	-1	-3	4	-30	-3	-5	25	5	8	-7	-6	
225(1,11) =	1	1	2	0	-16	30	-5	5	-5	-5	-4	0	4	
225(1,12) =	1	1	-1	3	3	-45	-3	5	15	5	3	4	-7	
225(1,13) =	1	1	-1	-3	-16	0	2	-10	-20	20	-7	3	-1	
225(2, 4) =	1	1	2	0	-1	-15	5	5	-5	5	11	-15	-1	-1
225(2, 5) =	1	1	-1	3	-2	30	2	20	-10	0	3	9	-17	
225(2, 6) =	1	1	-1	-3	-6	-60	12	-10	0	-10	3	13	14	
225(2, 7) =	1	1	2	0	-6	-30	0	-20	20	0	-9	5	-1	1
225(2, 8) =	1	1	-1	3	8	-30	2	20	10	20	-7	-6	8	
225(2, 9) =	1	1	-1	-3	-1	45	2	20	10	20	8	3	-1	1
225(2,10) =	1	1	2	0	4	-30	-10	20	-10	0	-9	0	-11	
225(2,11) =	1	1	-1	3	3	-45	-3	5	-15	-25	-12	-11	-7	
225(2,12) =	1	1	-1	-3	9	15	-3	-5	5	-15	3	8	-1	
225(3, 6) =	1	1	2	0	11	-15	-4	-10	10	20	5	-6	11	
225(3, 7) =	1	1	-1	3	-7	15	2	-10	-20	20	-7	9	8	1
225(3, 8) =	1	1	-1	-3	4	0	2	20	-10	0	3	-12	4	
225(3, 9) =	1	1	2	0	-9	15	6	20	0	-10	0	4	-4	
225(3,10) =	1	1	-1	3	3	15	-3	-5	5	-15	3	-1	8	
225(3,11) =	1	1	-1	-3	-1	-45	2	-10	10	-10	-7	-12	-16	
225(4, 8) =	1	1	2	0	9	15	0	-10	0	-10	21	10	-1	
225(4, 9) =	1	1	-1	3	-2	0	-3	-5	25	5	-7	14	3	
225(4,10) =	1	1	-1	-3	-1	15	-8	-10	-20	10	8	3	4	
225(5,10) =	1	1	2	0	-6	0	15	-15	-15	-15	21	0	9	

TABLE 9: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 0 (

	P	1	A	3	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	-24	0	-9	45	-45	-45	-24	-3	-3	
225(0, 1) =	1	-14	-1	3	-3	-30	2	-10	30	-30	13	-6	3	-3
225(0, 2) =	1	-14	-1	-3	-2	-30	-3	-35	-25	5	13	-2	-6	-1
225(0, 3) =	1	-14	2	0	16	0	11	-15	25	-15	-14	-3	7	
225(0, 4) =	1	-14	-1	3	-2	-30	-13	15	15	25	13	4	-2	
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	16	0	-4	-40	0	0	-14	-3	-3	1
225(0, 7) =	1	-14	-1	3	-2	30	-3	-35	-25	5	13	4	3	-1
225(0, 8) =	1	-14	-1	-3	-2	-30	17	15	-5	15	13	3	4	
225(0, 9) =	1	-14	2	0	16	0	11	15	15	25	-14	7	-8	
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-2	30	2	-10	30	-30	13	3	-6	-1
225(0,12) =	1	-14	2	0	16	0	-9	-5	5	35	-14	-8	-3	-1
225(0,13) =	1	-14	-1	3	-2	30	17	15	-5	15	13	-6	13	
225(0,14) =	1	-14	-1	-3	-2	30	-13	15	15	25	13	13	4	
225(1, 2) =	1	1	2	0	-2	0	5	-5	-15	5	-2	16	6	
225(1, 3) =	1	1	-1	3	-2	0	-8	-10	0	10	-2	-6	-2	1
225(1, 4) =	1	1	-1	-3	13	-45	2	10	-30	-10	-2	13	9	
225(1, 5) =	1	1	2	0	-2	0	5	5	15	-15	-2	-9	6	-1
225(1, 6) =	1	1	-1	3	-2	60	2	0	0	10	-2	-11	-2	
225(1, 7) =	1	1	-1	-3	-2	0	2	-20	0	-10	-2	-2	9	
225(1, 8) =	1	1	2	0	-2	0	-5	5	15	-5	-2	6	-14	-1
225(1, 9) =	1	1	-1	3	-2	0	2	10	0	20	-2	-11	3	-1
225(1,10) =	1	1	-1	-3	-2	-60	2	-10	0	0	-2	-12	-6	-1
225(1,11) =	1	1	2	0	-2	0	-10	0	0	10	-2	1	1	-1
225(1,12) =	1	1	-1	3	13	45	2	10	-30	-10	-2	-11	-12	
225(1,13) =	1	1	-1	-3	-2	0	7	5	15	-5	-2	3	-11	-1
225(2, 4) =	1	1	2	0	-2	0	-5	5	15	-5	-2	-9	16	-1
225(2, 5) =	1	1	-1	3	-2	-60	-3	-5	5	5	-2	4	-12	1
225(2, 6) =	1	1	-1	-3	-2	0	2	10	0	20	-2	-2	-6	-1
225(2, 7) =	1	1	2	0	-2	0	5	15	-5	15	-2	6	1	1
225(2, 8) =	1	1	-1	3	13	-45	-8	20	0	-20	-2	9	13	-1
225(2, 9) =	1	1	-1	-3	13	45	-8	20	0	-20	-2	-12	-11	-1
225(2,10) =	1	1	2	0	-2	0	0	-20	-10	-10	-2	1	-9	-1
225(2,11) =	1	1	-1	3	-2	0	2	-20	0	-10	-2	4	3	
225(2,12) =	1	1	-1	-3	-2	60	2	0	10	0	-2	3	-11	-1
225(3, 6) =	1	1	2	0	-14	0	1	5	-15	-5	16	-3	7	-1
225(3, 7) =	1	1	-1	3	-2	0	7	5	15	-5	-2	9	-2	-1
225(3, 8) =	1	1	-1	-3	-2	60	-3	-5	5	5	-2	-2	24	1
225(3, 9) =	1	1	2	0	-14	0	-4	10	0	-10	16	7	-3	
225(3,10) =	1	1	-1	3	-2	-60	2	0	10	0	-2	-6	-2	-1
225(3,11) =	1	1	-1	-3	-2	0	-8	-10	0	10	-2	3	4	1
225(4, 8) =	1	1	2	0	-2	0	5	-5	-15	5	-2	-14	-9	
225(4, 9) =	1	1	-1	3	-2	60	2	-10	0	0	-2	24	3	-1
225(4,10) =	1	1	-1	-3	-2	-60	2	0	0	10	-2	-2	4	
225(5,10) =	1	1	2	0	48	0	0	0	0	0	48	6	6	-1

TABLE 10: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	
225(0, 0) =	1	-44	2	0	72	0	-9	45	-45	-45	72	9	9	-1
225(0, 1) =	1	-14	-1	3	-2	90	2	-10	30	-30	-7	34	3	-
225(0, 2) =	1	-14	-1	-3	-2	90	-3	-35	-25	5	-7	-2	34	2
225(0, 3) =	1	-14	2	0	-8	0	11	-15	25	-15	2	9	-1	2
225(0, 4) =	1	-14	-1	3	-2	90	-13	15	15	25	-7	-16	-2	
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	-8	0	-4	-40	0	0	2	-11	9	-
225(0, 7) =	1	-14	-1	3	-2	-90	-3	-35	-25	5	-7	4	17	2
225(0, 8) =	1	-14	-1	-3	-2	90	17	15	-5	15	-7	3	-16	-1
225(0, 9) =	1	-14	2	0	-8	0	11	15	15	25	2	-1	4	-1
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-2	-90	2	-10	30	-30	-7	-17	-6	-
225(0,12) =	1	-14	2	0	-8	0	-9	-5	5	35	2	4	-11	
225(0,13) =	1	-14	-1	3	-2	-90	17	15	-5	15	-7	-6	-7	-1
225(0,14) =	1	-14	-1	-3	-2	-90	-13	15	15	25	-7	-7	4	
225(1, 2) =	1	1	2	0	-10	0	5	-5	-15	5	10	-10	-10	
225(1, 3) =	1	1	-1	3	8	-30	-8	-10	0	10	-2	14	8	-
225(1, 4) =	1	1	-1	-3	-7	15	2	10	-30	-10	-2	-7	-1	-
225(1, 5) =	1	1	2	0	10	0	5	5	15	-15	-10	-5	0	1
225(1, 6) =	1	1	-1	3	-2	0	2	0	0	10	8	-1	-2	
225(1, 7) =	1	1	-1	-3	8	-30	2	-20	0	-10	-2	8	-1	-
225(1, 8) =	1	1	2	0	-10	0	-5	5	15	-5	10	-10	20	-1
225(1, 9) =	1	1	-1	3	8	30	2	10	0	20	-2	-1	-7	
225(1,10) =	1	1	-1	-3	-2	0	2	-10	0	0	8	-2	-6	-
225(1,11) =	1	1	2	0	10	0	-10	0	0	10	-10	5	-5	
225(1,12) =	1	1	-1	3	-7	-15	2	10	-30	-10	-2	-1	8	-
225(1,13) =	1	1	-1	-3	8	30	7	5	15	-5	-2	-7	-1	
225(2, 4) =	1	1	2	0	-10	0	-5	5	15	-5	10	5	-10	-1
225(2, 5) =	1	1	-1	3	-2	0	-3	-5	5	5	8	4	-2	-
225(2, 6) =	1	1	-1	-3	8	-30	2	10	0	20	-2	8	14	
225(2, 7) =	1	1	2	0	10	0	5	15	-5	15	-10	0	5	1
225(2, 8) =	1	1	-1	3	-7	15	-8	20	0	-20	-2	-1	-7	
225(2, 9) =	1	1	-1	-3	-7	-15	-6	20	0	-20	-2	8	-1	
225(2,10) =	1	1	2	0	10	0	0	-20	-10	-10	-10	-5	-5	-1
225(2,11) =	1	1	-1	3	8	30	2	-20	0	-10	-2	-16	-7	-
225(2,12) =	1	1	-1	-3	-2	0	2	0	10	0	8	3	-1	-
225(3, 6) =	1	1	2	0	2	0	1	5	-15	-5	-8	-1	-1	
225(3, 7) =	1	1	-1	3	8	-30	7	5	15	-5	-2	-1	8	
225(3, 8) =	1	1	-1	-3	-2	0	-3	-5	5	5	8	-2	4	-
225(3, 9) =	1	1	2	0	2	0	-4	10	0	-10	-8	-1	-1	
225(3,10) =	1	1	-1	3	-2	0	2	0	10	0	8	-6	8	-
225(3,11) =	1	1	-1	-3	8	30	-8	-10	0	10	-2	-7	-16	-
225(4, 8) =	1	1	2	0	-10	0	5	-5	-15	5	10	20	5	
225(4, 9) =	1	1	-1	3	-2	0	2	-10	0	0	8	4	3	-
225(4,10) =	1	1	-1	-3	-2	0	2	0	0	10	0	8	4	
225(5,10) =	1	1	2	0	0	0	0	0	0	0	0	0	0	

TABLE 11: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 1 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	-60	0	-9	45	-45	-45	48	-3	15	-1
225(0, 1) =	1	-14	-1	3	-2	-90	2	-10	30	-30	13	24	3	-
225(0, 2) =	1	-14	-1	-3	4	-60	-3	-35	-25	5	-17	-2	24	1
225(0, 3) =	1	-14	2	0	10	-30	11	-15	25	-15	-2	-3	-5	1
225(0, 4) =	1	-14	-1	3	-2	-90	-13	15	15	25	13	4	-2	
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	10	30	-4	-40	0	0	-2	-3	15	-
225(0, 7) =	1	-14	-1	3	-2	90	-3	-35	-25	5	13	4	3	1
225(0, 8) =	1	-14	-1	-3	4	-60	17	15	-5	15	-17	3	-26	
225(0, 9) =	1	-14	2	0	10	30	11	15	15	25	-2	7	10	-1
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	4	60	2	-10	30	-30	-17	-27	-6	-
225(0,12) =	1	-14	2	0	10	-30	-9	-5	5	25	-2	-8	-15	-
225(0,13) =	1	-14	-1	3	-2	90	17	15	-5	15	13	-6	-17	-2
225(0,14) =	1	-14	-1	-3	4	60	-13	15	15	25	-17	12	4	
225(1, 2) =	1	1	2	0	7	15	5	-5	-15	5	7	-14	-3	1
225(1, 3) =	1	1	-1	3	-2	30	-8	-10	0	10	-2	9	-2	-
225(1, 4) =	1	1	-1	-3	4	-30	2	10	-30	-10	-2	-2	9	-1
225(1, 5) =	1	1	2	0	-8	30	5	5	15	-15	-8	-9	-3	
225(1, 6) =	1	1	-1	3	-2	0	2	0	0	10	-2	-11	-2	
225(1, 7) =	1	1	-1	-3	-11	15	2	-20	0	-10	-2	13	-6	
225(1, 8) =	1	1	2	0	7	-15	-5	5	15	-5	7	-9	7	-2
225(1, 9) =	1	1	-1	3	-2	-30	2	10	0	20	-2	-11	3	
225(1,10) =	1	1	-1	-3	4	-30	2	-10	0	0	13	3	-6	-
225(1,11) =	1	1	2	0	-8	30	-10	0	0	10	-8	1	-8	-
225(1,12) =	1	1	-1	3	13	15	2	10	-30	-10	-2	4	3	
225(1,13) =	1	1	-1	-3	-11	-15	7	5	15	-5	-2	3	4	-
225(2, 4) =	1	1	2	0	7	-15	-5	5	15	-5	7	6	7	
225(2, 5) =	1	1	-1	3	-2	0	-3	-5	5	5	-2	4	-12	-
225(2, 6) =	1	1	-1	-3	-11	15	2	10	0	20	-2	-2	9	
225(2, 7) =	1	1	2	0	-8	-30	5	15	-5	15	-8	6	7	1
225(2, 8) =	1	1	-1	3	13	-15	-8	20	0	-20	-2	-6	-2	-
225(2, 9) =	1	1	-1	-3	4	30	-8	20	0	-20	-2	3	-11	1
225(2,10) =	1	1	2	0	-8	-30	0	-20	-10	-10	-8	1	-3	-(
225(2,11) =	1	1	-1	3	-2	-30	2	20	0	-10	-2	-11	-12	-1
225(2,12) =	1	1	-1	-3	4	30	2	-5	10	0	13	3	4	-1
225(3, 6) =	1	1	2	0	-5	-15	1	5	-15	-5	-2	-3	-5	-
225(3, 7) =	1	1	-1	3	-2	30	7	5	15	-5	-2	9	13	1
225(3, 8) =	1	1	-1	-3	4	30	-3	-5	5	5	13	-2	9	-
225(3, 9) =	1	1	2	0	-5	15	-4	10	0	-10	-2	7	0	
225(3,10) =	1	1	-1	3	-2	0	2	0	10	0	-2	-6	13	
225(3,11) =	1	1	-1	-3	-11	-15	-8	-10	0	10	-2	-12	-11	-
225(4, 8) =	1	1	2	0	7	15	5	-5	-15	5	7	16	-3	-
225(4, 9) =	1	1	-1	3	-2	0	2	-10	0	0	-2	9	3	-
225(4,10) =	1	1	-1	-3	4	-30	2	0	0	10	13	-2	4	
225(5,10) =	1	1	2	0	12	0	0	0	0	0	12	6	-3	-

TABLE 12: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 3), IND 3 = 0 (MOD 3), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	36	0	-9	45	-45	-45	0	9	-9	0
225(0, 1) =	1	-14	-1	3	-2	30	2	-10	30	-30	-7	4	3	-2
225(0, 2) =	1	-14	-1	-3	4	60	-3	-35	-25	5	23	-2	4	-7
225(0, 3) =	1	-14	2	0	-14	-30	11	-15	25	-15	-10	9	11	10
225(0, 4) =	1	-14	-1	3	-2	30	-13	15	15	25	-7	-16	-2	3
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	2	0	-14	30	-4	-40	0	0	-10	-11	-9	10
225(0, 7) =	1	-14	-1	3	-2	-30	-3	-35	-25	5	-7	4	-17	-7
225(0, 8) =	1	-14	-1	-3	4	60	17	15	-5	15	23	3	14	-17
225(0, 9) =	1	-14	2	0	-14	30	11	15	15	25	-10	-1	-14	0
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	4	-60	2	-10	30	-30	23	13	-6	-2
225(0,12) =	1	-14	2	0	-14	-30	-9	-5	5	35	-10	4	1	-10
225(0,13) =	1	-14	-1	3	-2	-30	17	15	-5	15	-7	-6	23	13
225(0,14) =	1	-14	-1	-3	4	-60	-13	15	15	25	23	-7	4	3
225(1, 2) =	1	1	2	0	-1	15	5	-5	-15	5	1	20	-1	-4
225(1, 3) =	1	1	-1	3	8	0	-8	-10	0	10	-2	-1	8	8
225(1, 4) =	1	1	-1	-3	-16	30	2	10	-30	-10	-2	8	-1	8
225(1, 5) =	1	1	2	0	4	30	5	5	15	-15	-4	-5	9	1
225(1, 6) =	1	1	-1	3	-2	-60	2	0	0	10	8	-1	-2	3
225(1, 7) =	1	1	-1	-3	-1	-15	2	-20	0	-10	-2	-7	14	-7
225(1, 8) =	1	1	2	0	-1	-15	-5	5	15	-5	1	5	-1	11
225(1, 9) =	1	1	-1	3	8	0	2	10	0	20	-2	-1	-7	-7
225(1,10) =	1	1	-1	-3	4	30	2	-10	0	0	-7	-17	-6	-2
225(1,11) =	1	1	2	0	4	30	-10	0	0	10	-4	5	4	-9
225(1,12) =	1	1	-1	3	-7	-45	2	10	-30	-10	-2	-16	-7	-7
225(1,13) =	1	1	-1	-3	-1	15	7	5	15	-5	-2	-7	-16	8
225(2, 4) =	1	1	2	0	-1	-15	-5	5	15	-5	1	-10	-1	-19
225(2, 5) =	1	1	-1	3	-2	60	-3	-5	5	5	8	4	-2	8
225(2, 6) =	1	1	-1	-3	-1	-15	2	10	0	20	-2	8	-1	-7
225(2, 7) =	1	1	2	0	4	-30	5	15	-5	15	-4	0	-1	16
225(2, 8) =	1	1	-1	3	-7	45	-8	20	0	-20	-2	14	8	8
225(2, 9) =	1	1	-1	-3	-16	-30	-8	20	0	-20	-2	-7	-1	-7
225(2,10) =	1	1	2	0	4	-30	0	-20	-10	-10	-4	-5	-11	-4
225(2,11) =	1	1	-1	3	8	0	2	-20	0	-10	-2	-1	8	8
225(2,12) =	1	1	-1	-3	4	-30	2	0	10	0	-7	3	-16	-2
225(3, 6) =	1	1	2	0	11	-15	1	5	-15	-5	10	-1	11	-10
225(3, 7) =	1	1	-1	3	8	0	7	5	15	-5	-2	-1	-7	-7
225(3, 8) =	1	1	-1	-3	4	-30	-3	-5	5	5	-7	-2	19	8
225(3, 9) =	1	1	2	0	11	15	-4	10	0	-10	10	-1	-4	5
225(3,10) =	1	1	-1	3	-2	60	2	0	10	0	8	-6	-7	-17
225(3,11) =	1	1	-1	-3	-1	15	-8	-10	0	10	-2	8	-1	8
225(4, 8) =	1	1	2	0	-1	15	5	-5	-15	5	1	-10	-1	11
225(4, 9) =	1	1	-1	3	-2	-60	2	-10	0	0	8	19	3	-2
225(4,10) =	1	1	-1	-3	4	30	2	0	0	10	-7	8	4	3
225(5,10) =	1	1	2	0	-36	0	0	0	0	0	36	0	9	-9

TABLE 13: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 3), IND 5 = 0 (

	P	L	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	36	0	-9	-15	15	-45	36	-3	-3	
225(0, 1) =	1	-14	-1	3	-2	90	-8	-20	0	0	13	14	3	-2
225(0, 2) =	1	-14	-1	-3	-2	30	7	-25	5	15	3	8	24	
225(0, 3) =	1	-14	2	0	-4	0	1	-5	-5	35	6	7	7	2
225(0, 4) =	1	-14	-1	3	-12	0	-3	5	-15	-5	-17	-6	-2	1
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	16	0	16	-20	0	0	-14	-13	-3	-
225(0, 7) =	1	-14	-1	3	-2	-30	7	-25	5	15	3	-16	3	
225(0, 8) =	1	-14	-1	-3	8	60	7	25	25	5	3	13	-26	-
225(0, 9) =	1	-14	2	0	-24	0	-9	35	15	25	-14	-3	-8	-1
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-2	-90	-8	-20	0	0	13	-7	-6	-2
225(0,12) =	1	-14	2	0	16	0	1	5	-25	-15	6	2	-3	
225(0,13) =	1	-14	-1	3	8	-60	7	25	25	5	3	4	13	-
225(0,14) =	1	-14	-1	-3	-12	0	-3	5	-15	-5	-17	3	4	1
225(1, 2) =	1	1	2	0	-12	0	5	5	-5	5	8	-4	-4	
225(1, 3) =	1	1	-1	3	-2	-60	7	5	-5	-5	3	14	-2	-
225(1, 4) =	1	1	-1	-3	3	-45	2	-10	10	-10	-7	-7	9	-
225(1, 5) =	1	1	2	0	-2	0	-5	-5	15	-15	-2	-4	6	
225(1, 6) =	1	1	-1	3	3	45	-3	5	15	25	13	-6	-2	-
225(1, 7) =	1	1	-1	-3	3	-45	2	-10	-20	20	-7	8	-6	
225(1, 8) =	1	1	2	0	-2	0	-5	5	-5	-5	3	11	16	-
225(1, 9) =	1	1	-1	3	3	-45	2	20	-20	-10	8	-16	3	-
225(1,10) =	1	1	-1	-3	-2	0	7	-5	15	-15	-2	-7	-6	
225(1,11) =	1	1	2	0	18	0	0	-10	0	10	-2	6	1	-
225(1,12) =	1	1	-1	3	3	45	2	-10	10	-10	-7	-1	-12	-
225(1,13) =	1	1	-1	-3	13	15	-8	20	10	10	-12	-7	4	
225(2, 4) =	1	1	2	0	-2	0	-5	5	-5	-5	3	-19	-14	-
225(2, 5) =	1	1	-1	3	-2	-30	-8	-10	-10	0	3	14	-12	
225(2, 6) =	1	1	-1	-3	3	45	2	20	-20	-10	8	8	9	-
225(2, 7) =	1	1	2	0	8	0	10	10	10	-10	-12	1	1	
225(2, 8) =	1	1	-1	3	-2	30	-8	-10	10	-20	3	-1	13	
225(2, 9) =	1	1	-1	-3	-2	-30	-8	-10	10	-20	3	8	-11	
225(2,10) =	1	1	2	0	-2	0	-5	-25	5	15	-12	-4	-9	-1
225(2,11) =	1	1	-1	3	3	45	2	-10	-20	20	-7	-1	3	
225(2,12) =	1	1	-1	-3	-7	15	7	-5	-5	5	3	-2	4	-
225(3, 6) =	1	1	2	0	-14	0	1	5	25	-5	6	2	7	-
225(3, 7) =	1	1	-1	3	13	-15	-8	20	10	10	-12	-1	-2	
225(3, 8) =	1	1	-1	-3	-2	30	-8	-10	-10	0	3	-7	9	
225(3, 9) =	1	1	2	0	6	0	-4	-10	-20	-10	-4	2	-3	-
225(3,10) =	1	1	-1	3	-7	-15	7	-5	-5	5	3	-11	-2	-
225(3,11) =	1	1	-1	-3	-2	60	7	5	-5	-5	3	-7	-11	-
225(4, 8) =	1	1	2	0	-12	0	5	5	-5	5	8	11	6	
225(4, 9) =	1	1	-1	3	-2	0	7	-5	15	-15	-2	14	3	
225(4,10) =	1	1	-1	-3	3	-45	-3	5	15	25	13	3	4	-
225(5,10) =	1	1	2	0	18	0	0	30	-30	0	18	6	6	-1

TABLE 14: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 2 = 1 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	12	0	-9	-15	15	-45	12	9	9	-1
225(0, 1) =	1	-14	-1	3	-2	-30	-8	-20	0	0	-7	14	3	1
225(0, 2) =	1	-14	-1	-3	-2	30	7	-25	5	15	3	-12	4	
225(0, 3) =	1	-14	2	0	12	0	1	-5	-5	35	-19	-1	-1	
225(0, 4) =	1	-14	-1	3	8	60	-3	5	-15	-5	23	-6	-2	-
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	-8	0	16	-20	0	0	2	-1	9	1
225(0, 7) =	1	-14	-1	3	-2	-30	7	-25	5	15	3	24	-17	
225(0, 8) =	1	-14	-1	-3	-12	0	7	25	25	5	3	-7	14	-
225(0, 9) =	1	-14	2	0	32	0	-9	35	15	25	2	9	4	
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-2	30	-8	-20	0	0	-7	-7	-6	1
225(0,12) =	1	-14	2	0	-8	0	1	5	-25	-15	-18	-6	-11	-1
225(0,13) =	1	-14	-1	3	-12	0	7	25	25	5	3	-16	-7	-
225(0,14) =	1	-14	-1	-3	8	-60	-3	5	-15	-5	23	3	4	-
225(1, 2) =	1	1	2	0	0	0	5	5	-5	5	0	10	5	
225(1, 3) =	1	1	-1	3	8	30	7	5	-5	-5	-7	-6	8	1
225(1, 4) =	1	1	-1	-3	3	15	2	-10	10	-10	3	13	-1	
225(1, 5) =	1	1	2	0	10	0	-5	-5	15	-15	-10	-10	0	
225(1, 6) =	1	1	-1	3	-7	15	-3	5	15	25	-7	-6	-2	
225(1, 7) =	1	1	-1	-3	3	15	2	-10	-20	20	3	-2	14	-1
225(1, 8) =	1	1	2	0	-10	0	-5	5	-5	-5	5	-15	-10	-
225(1, 9) =	1	1	-1	3	3	75	2	20	-20	-10	-12	4	-7	
225(1,10) =	1	1	-1	-3	-2	-60	7	-5	15	-15	8	-7	-6	-1
225(1,11) =	1	1	2	0	-10	0	0	-10	0	10	-10	0	-5	-1
225(1,12) =	1	1	-1	3	3	-15	2	-10	10	-10	3	-11	8	
225(1,13) =	1	1	-1	-3	-7	15	-8	20	10	10	8	3	-16	-
225(2, 4) =	1	1	2	0	-10	0	-5	5	-5	-5	5	15	20	-
225(2, 5) =	1	1	-1	3	-2	-30	-3	-10	-10	0	3	-6	-2	
225(2, 6) =	1	1	-1	-3	3	-75	2	20	-20	-10	-12	-2	-1	
225(2, 7) =	1	1	2	0	0	0	10	10	10	-10	0	5	5	2
225(2, 8) =	1	1	-1	3	8	-60	-8	-10	10	-20	-7	9	-7	-
225(2, 9) =	1	1	-1	-3	8	60	-8	-10	10	-20	-7	-12	-1	-
225(2,10) =	1	1	2	0	10	0	-5	-25	5	15	0	0	-5	
225(2,11) =	1	1	-1	3	3	-15	2	-10	-20	20	3	-11	-7	-1
225(2,12) =	1	1	-1	-3	3	45	7	-5	-5	5	3	8	-16	-
225(3, 6) =	1	1	2	0	2	0	1	5	25	-5	2	-6	-1	-
225(3, 7) =	1	1	-1	3	-7	-15	-8	20	10	10	8	9	8	-
225(3, 8) =	1	1	-1	-3	-2	30	-8	-10	-10	0	3	3	19	
225(3, 9) =	1	1	2	0	-18	0	-4	-10	-20	-10	12	4	-1	1
225(3,10) =	1	1	-1	3	3	-45	7	-5	-5	5	3	-1	8	-
225(3,11) =	1	1	-1	-3	8	-30	7	5	-5	-5	-7	3	-1	1
225(4, 8) =	1	1	2	0	0	0	5	5	-5	5	0	-5	-10	
225(4, 9) =	1	1	-1	3	-2	60	7	-5	15	-15	8	14	3	-1
225(4,10) =	1	1	-1	-3	-7	-15	-3	5	15	25	-7	3	4	
225(5,10) =	1	1	2	0	30	0	0	30	-30	0	30	0	0	

TABLE 15 : IND 2 = 0 (MOD 3), IND 3 = 1 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 1 (

	F	I	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	0	0	-9	-15	15	-45	18	-3	15	-1
225(0, 1) =	1	-14	-1	3	-2	30	-8	-20	0	0	-17	14	3	
225(0, 2) =	1	-14	-1	-3	4	0	7	-25	5	15	3	-23	-6	
225(0, 3) =	1	-14	2	0	-10	-30	1	-5	-5	35	-12	7	-5	
225(0, 4) =	1	-14	-1	3	-12	-60	-3	5	-15	-5	13	-6	-2	-1
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	10	30	16	-20	0	0	-2	-13	15	
225(0, 7) =	1	-14	-1	3	-2	30	7	-25	5	15	3	14	-27	
225(0, 8) =	1	-14	-1	-3	14	30	7	25	25	5	3	13	4	-
225(0, 9) =	1	-14	2	0	-30	30	-9	35	15	25	-2	-3	10	-
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	4	-60	-8	-20	0	0	13	-7	-6	
225(0,12) =	1	-14	2	0	10	-30	1	5	-25	-15	-12	2	-15	-1
225(0,13) =	1	-14	-1	3	8	0	7	25	25	5	3	4	13	-
225(0,14) =	1	-14	-1	-3	-6	30	-3	5	-15	-5	13	3	4	1
225(1, 2) =	1	1	2	0	-3	15	5	5	-5	5	17	11	-3	-1
225(1, 3) =	1	1	-1	3	-2	-30	7	5	-5	-5	-12	-1	13	
225(1, 4) =	1	1	-1	-3	-6	-30	2	-10	10	-10	8	8	9	
225(1, 5) =	1	1	2	0	-8	30	-5	-5	15	-15	-8	-4	-3	
225(1, 6) =	1	1	-1	3	3	-15	-3	5	15	25	-2	-6	-2	1
225(1, 7) =	1	1	-1	-3	-6	-30	2	-10	-20	20	-7	8	9	-
225(1, 8) =	1	1	2	0	7	-15	-5	5	-5	-5	12	-19	7	-1
225(1, 9) =	1	1	-1	3	3	-75	2	20	-20	-10	-7	-1	-12	
225(1,10) =	1	1	-1	-3	4	30	7	-5	15	-15	-2	-7	-6	-
225(1,11) =	1	1	2	0	12	30	0	-10	0	10	-8	6	-8	-
225(1,12) =	1	1	-1	3	3	15	2	-10	10	-10	-7	-16	3	-
225(1,13) =	1	1	-1	-3	4	0	-8	20	10	10	3	-7	11	
225(2, 4) =	1	1	2	0	7	-15	-5	5	-5	-5	-3	11	7	
225(2, 5) =	1	1	-1	3	-2	30	-8	-10	-10	0	3	-1	3	
225(2, 6) =	1	1	-1	-3	-6	60	2	20	-20	-10	-7	-7	-6	-
225(2, 7) =	1	1	2	0	2	-30	10	10	10	-10	-3	1	7	1
225(2, 8) =	1	1	-1	3	-2	60	-8	-10	10	-20	3	14	-2	
225(2, 9) =	1	1	-1	-3	-11	-45	-8	-10	10	-20	-12	-7	-11	-
225(2,10) =	1	1	2	0	-8	-30	-5	-25	5	15	-3	-4	-3	-
225(2,11) =	1	1	-1	3	3	15	2	-10	-20	20	8	-1	3	-
225(2,12) =	1	1	-1	-3	-1	-15	7	-5	-5	5	3	-2	-11	-
225(3, 6) =	1	1	2	0	-5	-15	1	5	25	-5	3	2	-5	-
225(3, 7) =	1	1	-1	3	13	15	-8	20	10	10	3	-1	-2	-
225(3, 8) =	1	1	-1	-3	4	0	-8	-10	-10	0	3	8	24	
225(3, 9) =	1	1	2	0	15	15	-4	-10	-20	-10	8	2	0	
225(3,10) =	1	1	-1	3	-7	45	7	-5	-5	5	3	-11	-2	-
225(3,11) =	1	1	-1	-3	-11	45	7	5	-5	-5	3	8	4	
225(4, 8) =	1	1	2	0	-3	15	5	5	-5	5	-13	-4	-3	1
225(4, 9) =	1	1	-1	3	-2	-60	7	-5	15	-15	13	14	3	-
225(4,10) =	1	1	-1	-3	9	-15	-3	5	15	25	-2	3	4	-
225(5,10) =	1	1	2	0	-18	0	0	30	-30	0	27	6	-3	-

TABLE 16.: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 1 (MOD 3), IND 5 = 1

	P	1	A	B	C	D	X	U	V	W	D0	D1	D2
225(0, 0) =	1	-44	2	0	-24	0	-9	-15	15	-45	30	9	-9
225(0, 1) =	1	-14	-1	3	-2	-90	-9	-20	0	0	23	14	3
225(0, 2) =	1	-14	-1	-3	4	0	7	-25	5	15	3	18	34
225(0, 3) =	1	-14	2	0	6	-30	1	-5	-5	35	0	-1	11
225(0, 4) =	1	-14	-1	3	8	0	-3	5	-15	-5	-7	-6	-2
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6
225(0, 6) =	1	-14	2	0	-14	30	16	-20	0	0	-10	-1	-9
225(0, 7) =	1	-14	-1	3	-2	30	7	-25	5	15	3	-6	13
225(0, 8) =	1	-14	-1	-3	-6	-30	7	25	25	5	3	-7	-16
225(0, 9) =	1	-14	2	0	26	30	-9	35	15	25	-10	9	-14
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3
225(0,11) =	1	-14	-1	-3	4	60	-8	-20	0	0	-7	-7	-6
225(0,12) =	1	-14	2	0	-14	-30	1	5	-25	-15	0	-6	1
225(0,13) =	1	-14	-1	3	-12	60	7	25	25	5	3	-16	-7
225(0,14) =	1	-14	-1	-3	14	-30	-3	5	-15	-5	-7	3	4
225(1, 2) =	1	1	2	0	9	15	5	5	-5	5	-9	-5	-1
225(1, 3) =	1	1	-1	3	8	60	7	5	-5	-5	8	9	-7
225(1, 4) =	1	1	-1	-3	-6	30	2	-10	10	-10	-12	-2	-1
225(1, 5) =	1	1	2	0	4	30	-5	-5	15	-15	-4	-10	9
225(1, 6) =	1	1	-1	3	-7	-45	-3	5	15	25	3	-6	-2
225(1, 7) =	1	1	-1	-3	-6	30	2	-10	-20	20	3	-3	-1
225(1, 8) =	1	1	2	0	-1	-15	-5	5	-5	-5	-4	15	-1
225(1, 9) =	1	1	-1	3	3	45	2	20	-20	-10	3	-11	8
225(1,10) =	1	1	-1	-3	4	-30	7	-5	15	-15	8	-7	-6
225(1,11) =	1	1	2	0	-16	30	0	-10	0	10	-4	0	4
225(1,12) =	1	1	-1	3	3	-45	2	-10	10	-10	3	4	-7
225(1,13) =	1	1	-1	-3	-16	0	-8	20	10	10	-7	3	-1
225(2, 4) =	1	1	2	0	-1	-15	-5	5	-5	-5	11	-15	-1
225(2, 5) =	1	1	-1	3	-2	30	-8	-10	-10	0	3	9	-17
225(2, 6) =	1	1	-1	-3	-6	-60	2	20	-20	-10	3	13	14
225(2, 7) =	1	1	2	0	-6	-30	10	10	10	-10	-9	5	-1
225(2, 8) =	1	1	-1	3	8	-30	-8	-10	10	-20	-7	-6	8
225(2, 9) =	1	1	-1	-3	-1	45	-8	-10	10	-20	8	3	-1
225(2,10) =	1	1	2	0	4	-30	-5	-25	5	15	-9	0	-11
225(2,11) =	1	1	-1	3	3	-45	2	-10	-20	20	-12	-11	-7
225(2,12) =	1	1	-1	-3	9	15	7	-5	-5	5	3	8	-1
225(3, 6) =	1	1	2	0	11	-15	1	5	25	-5	5	-6	11
225(3, 7) =	1	1	-1	3	-7	15	-8	20	10	10	-7	9	8
225(3, 8) =	1	1	-1	-3	4	0	-8	-10	-10	0	3	-12	4
225(3, 9) =	1	1	2	0	-9	15	-4	-10	-20	-10	0	4	-4
225(3,10) =	1	1	-1	3	3	15	7	-5	-5	5	3	-1	8
225(3,11) =	1	1	-1	-3	-1	-45	7	5	-5	-5	-7	-12	-16
225(4, 8) =	1	1	2	0	9	15	5	5	-5	5	21	10	-1
225(4, 9) =	1	1	-1	3	-2	0	7	-5	15	-15	-7	14	3
225(4,10) =	1	1	-1	-3	-1	15	-3	5	15	25	8	3	4
225(5,10) =	1	1	2	0	-6	0	0	30	-30	0	21	0	9

TABLE 17 : IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	J	K	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	36	0	-9	-15	-45	15	36	-3	-3	-9
225(0, 1) =	1	-14	-1	3	3	60	12	-20	0	-20	3	14	13	
225(0, 2) =	1	-14	-1	-3	-3	90	-3	5	-5	25	13	8	14	1
225(0, 3) =	1	-14	2	0	-24	0	21	15	-5	-5	-14	7	-3	
225(0, 4) =	1	-14	-1	3	-3	30	-3	-15	25	15	3	-6	8	1
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	-4	0	0	10	30	10	6	-13	7	-
225(0, 7) =	1	-14	-1	3	-3	-90	-3	5	-5	25	13	14	-7	1
225(0, 8) =	1	-14	-1	-3	-12	0	-3	15	-5	-5	-17	13	-6	
225(0, 9) =	1	-14	2	0	16	0	-9	15	-5	-15	6	-3	2	-1
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	8	-60	12	-20	0	-20	3	-7	4	
225(0,12) =	1	-14	2	0	16	0	-9	-25	25	-5	-14	2	-13	-1
225(0,13) =	1	-14	-1	3	-12	0	-3	15	-5	-5	-17	-26	3	
225(0,14) =	1	-14	-1	-3	-3	-30	-3	-15	25	15	3	3	-16	1
225(1, 2) =	1	1	2	0	-2	0	0	10	-10	0	3	11	11	-
225(1, 3) =	1	1	-1	3	3	-45	-3	15	25	5	-7	-1	8	
225(1, 4) =	1	1	-1	-3	-3	30	-3	-5	-25	15	3	-7	-1	-
225(1, 5) =	1	1	2	0	8	0	0	-20	0	-20	-12	-4	1	
225(1, 6) =	1	1	-1	3	-3	30	-3	15	-5	15	3	-6	-7	-
225(1, 7) =	1	1	-1	-3	13	-15	12	10	-10	0	-12	8	-1	-
225(1, 8) =	1	1	2	0	-12	0	0	0	10	-10	8	-19	11	-1
225(1, 9) =	1	1	-1	3	-3	60	-3	-5	5	-15	3	-1	-7	-
225(1,10) =	1	1	-1	-3	-7	-15	-3	-5	15	-5	3	-7	-11	-
225(1,11) =	1	1	2	0	-2	0	0	0	10	30	-12	6	-4	-
225(1,12) =	1	1	-1	3	-3	-30	-3	-5	-25	15	3	-1	8	-
225(1,13) =	1	1	-1	-3	3	-45	-3	15	-5	-25	8	-7	-16	
225(2, 4) =	1	1	2	0	-12	0	0	0	10	-10	8	11	-4	-1
225(2, 5) =	1	1	-1	3	-3	0	-3	-25	-5	-5	-2	-1	-7	-
225(2, 6) =	1	1	-1	-3	-3	-60	-3	-5	5	-15	3	8	14	-
225(2, 7) =	1	1	2	0	18	0	0	0	10	10	-2	1	6	1
225(2, 8) =	1	1	-1	3	3	-45	-3	-15	-5	5	-7	-1	-7	
225(2, 9) =	1	1	-1	-3	3	45	-3	-15	-5	5	-7	8	-1	
225(2,10) =	1	1	2	0	-2	0	0	-10	-20	10	-2	-4	-4	-
225(2,11) =	1	1	-1	3	13	15	12	10	-10	0	-12	-16	-7	-
225(2,12) =	1	1	-1	-3	3	45	12	0	10	10	13	-2	-6	-1
225(3, 6) =	1	1	2	0	6	0	-9	15	-5	5	-4	2	2	
225(3, 7) =	1	1	-1	3	3	45	-3	15	-5	-25	8	14	8	
225(3, 8) =	1	1	-1	-3	-3	0	-3	-25	-5	-5	-2	-7	14	-
225(3, 9) =	1	1	2	0	-14	0	6	-20	-10	0	6	2	2	1
225(3,10) =	1	1	-1	3	3	-45	12	0	10	10	13	4	3	-1
225(3,11) =	1	1	-1	-3	3	45	-3	15	25	5	-7	-7	-1	
225(4, 8) =	1	1	2	0	-2	0	0	10	-10	0	3	-4	-19	-
225(4, 9) =	1	1	-1	3	-7	15	-3	-5	15	-5	3	14	-2	-
225(4,10) =	1	1	-1	-3	-3	-30	-3	15	-5	15	3	3	14	-
225(5,10) =	1	1	2	0	18	0	0	30	0	-30	18	6	6	

TABLE 18 : IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 0 (

	P	L	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	2	0	12	0	-9	-15	-45	15	12	9	9	4
225(0, 1) =	1	-14	-1	3	-12	0	12	-20	0	-20	3	14	-7	-1
225(0, 2) =	1	-14	-1	-3	-2	-30	-3	5	-5	25	-7	-12	14	-
225(0, 3) =	1	-14	2	0	32	0	21	15	-5	-5	2	-1	9	2
225(0, 4) =	1	-14	-1	3	-2	30	-3	-15	25	15	3	-6	-12	-
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	12	0	6	10	30	10	-18	-1	-1	1
225(0, 7) =	1	-14	-1	3	-2	30	-3	5	-5	25	-7	-6	-7	-
225(0, 8) =	1	-14	-1	-3	8	60	-3	15	-5	-5	23	-7	-6	-1
225(0, 9) =	1	-14	2	0	-8	0	-9	15	-5	-15	-18	9	-6	
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-12	0	12	-20	0	-20	3	-7	-16	-1
225(0,12) =	1	-14	2	0	-8	0	-9	-25	25	-5	2	-6	-1	
225(0,13) =	1	-14	-1	3	6	-60	-3	15	-5	-5	23	14	3	-1
225(0,14) =	1	-14	-1	-3	-2	-30	-3	-15	25	15	3	3	24	-
225(1, 2) =	1	1	2	0	-10	0	0	10	-10	0	5	-5	-15	1
225(1, 3) =	1	1	-1	3	3	15	-3	15	25	5	3	9	-2	
225(1, 4) =	1	1	-1	-3	6	-60	-3	-5	-25	15	-7	13	9	-
225(1, 5) =	1	1	2	0	0	0	0	-20	0	-20	0	-10	5	
225(1, 6) =	1	1	-1	3	-2	30	-3	15	-5	15	3	-6	3	
225(1, 7) =	1	1	-1	-3	-7	-15	12	10	-10	0	8	-2	9	-
225(1, 8) =	1	1	2	0	0	0	0	0	10	-10	0	15	-5	
225(1, 9) =	1	1	-1	3	8	-30	-3	-5	5	-15	-7	-11	3	-
225(1,10) =	1	1	-1	-3	3	-45	-3	-5	15	-5	3	-7	-1	
225(1,11) =	1	1	2	0	10	0	0	0	10	30	0	0	0	-1
225(1,12) =	1	1	-1	3	0	60	-3	-5	-25	15	-7	-11	-12	-
225(1,13) =	1	1	-1	-3	3	75	-3	15	-5	-25	-12	3	4	
225(2, 4) =	1	1	2	0	0	0	0	0	10	-10	0	-15	10	
225(2, 5) =	1	1	-1	3	-2	-60	-3	-25	-5	-5	8	9	-7	
225(2, 6) =	1	1	-1	-3	0	30	-3	-5	5	-15	-7	-2	-6	-
225(2, 7) =	1	1	2	0	-10	0	0	0	10	10	-10	5	0	1
225(2, 8) =	1	1	-1	3	3	15	-3	-15	-5	5	3	9	13	
225(2, 9) =	1	1	-1	-3	3	-15	-3	-15	-5	5	3	-12	-11	
225(2,10) =	1	1	2	0	10	0	0	-10	-20	10	-10	0	-10	-1
225(2,11) =	1	1	-1	3	-7	15	12	10	-10	0	8	4	3	-
225(2,12) =	1	1	-1	-3	-7	15	12	0	10	10	-7	0	-6	-
225(3, 6) =	1	1	2	0	-18	0	-9	15	-5	5	12	-6	4	-1
225(3, 7) =	1	1	-1	3	3	-75	-3	15	-5	-25	-12	-6	-2	
225(3, 8) =	1	1	-1	-3	-2	60	-3	-25	-5	-5	8	3	14	
225(3, 9) =	1	1	2	0	2	0	6	-20	-10	0	2	4	-6	-
225(3,10) =	1	1	-1	3	-7	-15	12	0	10	10	-7	-16	3	-
225(3,11) =	1	1	-1	-3	3	-15	-3	15	25	5	3	3	-11	
225(4, 8) =	1	1	2	0	-10	0	0	10	-10	0	5	10	15	1
225(4, 9) =	1	1	-1	3	3	45	-3	-5	15	-5	3	14	8	
225(4,10) =	1	1	-1	-3	-2	-30	-3	15	-5	15	3	3	-6	
225(5,10) =	1	1	2	0	30	0	0	30	0	-30	30	0	0	-3

TABLE 19 : IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 1 (M

	F	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	0	0	-9	-15	-45	15	18	-3	15	18
225(0, 1) =	1	-14	-1	3	8	0	12	-20	0	-20	3	14	-17	8
225(0, 2) =	1	-14	-1	-3	4	60	-3	5	-5	25	13	8	14	-17
225(0, 3) =	1	-14	2	0	-30	-30	21	15	-5	-5	-2	7	15	18
225(0, 4) =	1	-14	-1	3	-2	-30	-3	-15	25	15	3	-6	8	13
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	2	0	-10	30	6	10	30	10	-12	-13	-5	8
225(0, 7) =	1	-14	-1	3	-2	-30	-3	5	-5	25	-17	14	-7	13
225(0, 8) =	1	-14	-1	-3	-6	-30	-3	15	-5	-5	13	-17	-6	-27
225(0, 9) =	1	-14	2	0	10	30	-9	15	-5	-15	-12	-3	-10	-2
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	14	-30	12	-20	0	-20	3	-7	-26	-22
225(0,12) =	1	-14	2	0	10	-30	-9	-25	25	-5	-2	2	5	-2
225(0,13) =	1	-14	-1	3	-12	60	-3	15	-5	-5	13	4	3	3
225(0,14) =	1	-14	-1	-3	4	0	-3	-15	25	15	3	3	14	-17
225(1, 2) =	1	1	2	0	7	15	0	10	-10	0	-3	-4	2	7
225(1, 3) =	1	1	-1	3	3	-15	-3	15	25	5	8	-1	-7	3
225(1, 4) =	1	1	-1	-3	-11	45	-3	-5	-25	15	-12	8	-1	-2
225(1, 5) =	1	1	2	0	2	30	0	-20	0	-20	-3	-4	7	2
225(1, 6) =	1	1	-1	3	-2	-30	-3	15	-5	15	3	-6	-7	-2
225(1, 7) =	1	1	-1	-3	4	0	12	10	-10	0	3	-7	14	-2
225(1, 8) =	1	1	2	0	-3	-15	0	0	10	-10	17	11	2	-3
225(1, 9) =	1	1	-1	3	-2	30	-3	-5	5	-15	-12	-1	-7	-2
225(1,10) =	1	1	-1	-3	-1	15	-3	-5	15	-5	3	-7	4	8
225(1,11) =	1	1	2	0	-8	30	0	0	10	30	-3	6	2	-8
225(1,12) =	1	1	-1	3	-2	-60	-3	-5	-25	15	3	-16	-7	-2
225(1,13) =	1	1	-1	-3	-6	-60	-3	15	-5	-25	-7	8	-1	3
225(2, 4) =	1	1	2	0	-3	-15	0	0	10	-10	-13	-19	2	-3
225(2, 5) =	1	1	-1	3	-2	60	-3	-25	-5	-5	13	-1	-7	-2
225(2, 6) =	1	1	-1	-3	-11	-45	-3	-5	5	-15	3	8	-1	-2
225(2, 7) =	1	1	2	0	12	-30	0	0	10	10	-8	1	-3	12
225(2, 8) =	1	1	-1	3	3	-15	-3	-15	-5	5	-7	14	8	3
225(2, 9) =	1	1	-1	-3	-6	30	-3	-15	-5	5	0	-7	-1	3
225(2,10) =	1	1	2	0	-8	-30	0	-10	-20	10	-8	-4	-13	-8
225(2,11) =	1	1	-1	3	13	-15	12	10	-10	0	3	-1	8	-2
225(2,12) =	1	1	-1	-3	9	15	12	0	10	10	-2	13	-6	3
225(3, 6) =	1	1	2	0	15	-15	-9	15	-5	5	8	2	5	-12
225(3, 7) =	1	1	-1	3	3	75	-3	15	-5	-25	-7	-1	8	3
225(3, 8) =	1	1	-1	-3	4	-30	-3	-25	-5	-5	-2	-7	14	13
225(3, 9) =	1	1	2	0	-5	15	6	-20	-10	0	3	2	-10	-2
225(3,10) =	1	1	-1	3	3	15	12	0	10	10	-2	-11	3	-12
225(3,11) =	1	1	-1	-3	-6	30	-3	15	25	5	-7	-7	-16	3
225(4, 8) =	1	1	2	0	7	15	0	10	-10	0	12	11	2	3
225(4, 9) =	1	1	-1	3	-7	-45	-3	-5	15	-5	3	14	13	-2
225(4,10) =	1	1	-1	-3	4	0	-3	15	-5	15	3	3	-1	13
225(5,10) =	1	1	2	0	-18	0	0	30	0	-30	27	6	-3	-18

TABLE 20: IND 2 = 0 (MOD 3), IND 3 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	-24	0	-9	-15	-45	15	30	9	-9	-30
225(0, 1) =	1	-14	-1	3	-12	-60	12	-20	0	-20	3	14	23	-12
225(0, 2) =	1	-14	-1	-3	4	-60	-3	5	-5	25	-7	-12	14	23
225(0, 3) =	1	-14	2	0	26	-30	21	15	-5	-5	-10	-1	-9	10
225(0, 4) =	1	-14	-1	3	-2	-30	-3	-15	25	15	3	-6	-12	-7
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	2	0	6	30	6	10	30	10	0	-1	11	0
225(0, 7) =	1	-14	-1	3	-2	90	-3	5	-5	25	23	-6	-7	-7
225(0, 8) =	1	-14	-1	-3	14	30	-3	15	-5	-5	-7	23	-6	13
225(0, 9) =	1	-14	2	0	-14	30	-9	15	-5	-15	0	9	6	-10
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	-6	30	12	-20	0	-20	3	-7	14	18
225(0,12) =	1	-14	2	0	-14	-30	-9	-25	25	-5	-10	-6	-19	-10
225(0,13) =	1	-14	-1	3	3	0	-3	15	-5	-5	-7	-16	3	-17
225(0,14) =	1	-14	-1	-3	4	0	-3	-15	25	15	3	3	-6	23
225(1, 2) =	1	1	2	0	-1	15	0	10	-10	0	11	10	-6	1
225(1, 3) =	1	1	-1	3	3	45	-3	15	25	5	-12	9	13	3
225(1, 4) =	1	1	-1	-3	-1	-45	-3	-5	-25	15	8	-2	9	-2
225(1, 5) =	1	1	2	0	-6	30	0	-20	0	-20	-9	-10	-1	6
225(1, 6) =	1	1	-1	3	-2	-30	-3	15	-5	15	3	-6	3	8
225(1, 7) =	1	1	-1	-3	-16	0	12	10	-10	0	-7	13	-6	-2
225(1, 8) =	1	1	2	0	9	-15	0	0	10	-10	-9	-15	4	-9
225(1, 9) =	1	1	-1	3	3	-60	-3	-5	5	-15	3	-11	3	-2
225(1,10) =	1	1	-1	-3	9	-15	-3	-5	15	-5	3	-7	-16	-12
225(1,11) =	1	1	2	0	4	30	0	0	10	30	-9	0	-6	-4
225(1,12) =	1	1	-1	3	8	30	-3	-5	-25	15	-7	4	3	-2
225(1,13) =	1	1	-1	-3	-6	60	-3	15	-5	-25	3	-12	-11	3
225(2, 4) =	1	1	2	0	9	-15	0	0	10	-10	21	15	4	-9
225(2, 5) =	1	1	-1	3	-2	0	-3	-25	-5	-5	-7	9	-7	8
225(2, 6) =	1	1	-1	-3	-1	45	-3	-5	5	-15	-7	-2	9	-2
225(2, 7) =	1	1	2	0	-16	-30	0	0	10	10	-4	5	9	16
225(2, 8) =	1	1	-1	3	3	45	-3	-15	-5	5	3	-6	-2	3
225(2, 9) =	1	1	-1	-3	-6	-30	-3	-15	-5	5	-12	3	-11	3
225(2,10) =	1	1	2	0	4	-30	0	-10	-20	10	-4	0	-1	-4
225(2,11) =	1	1	-1	3	-7	-15	12	10	-10	0	-7	-11	-12	-2
225(2,12) =	1	1	-1	-3	-1	-15	12	0	10	10	8	-7	-6	-17
225(3, 6) =	1	1	2	0	-9	-15	-9	15	-5	5	0	-6	1	0
225(3, 7) =	1	1	-1	3	3	-45	-3	15	-5	-25	3	9	-2	3
225(3, 8) =	1	1	-1	-3	4	30	-3	-25	-5	-5	8	3	14	-7
225(3, 9) =	1	1	2	0	11	15	6	-20	-10	0	5	4	6	10
225(3,10) =	1	1	-1	3	-7	45	12	0	10	10	8	-1	3	-2
225(3,11) =	1	1	-1	-3	-6	-30	-3	15	25	5	3	3	4	3
225(4, 8) =	1	1	2	0	-1	15	0	10	-10	0	-4	-5	-6	1
225(4, 9) =	1	1	-1	3	3	-15	-3	-5	15	-5	3	14	-7	3
225(4,10) =	1	1	-1	-3	4	0	-3	15	-5	15	3	3	9	-7
225(5,10) =	1	1	2	0	-6	0	0	30	0	-30	21	0	9	6

TABLE 21: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 0

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2
225(0, 0) =	1	-44	2	0	36	0	21	15	-15	-15	36	-3	27
225(0, 1) =	1	-14	-1	3	-2	30	2	-10	30	40	3	24	-17
225(0, 2) =	1	-14	-1	-3	-12	0	-3	5	-5	-15	-17	-2	24
225(0, 3) =	1	-14	2	0	16	0	1	15	35	15	-14	-3	7
225(0, 4) =	1	-14	-1	3	8	60	-3	5	-15	35	3	-26	-22
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6
225(0, 6) =	1	-14	2	0	16	0	-4	20	0	-20	6	-3	7
225(0, 7) =	1	-14	-1	3	-12	0	-3	5	-5	-15	-17	4	-27
225(0, 8) =	1	-14	-1	-3	-2	90	7	-15	5	-15	13	3	4
225(0, 9) =	1	-14	2	0	-4	0	-9	-25	15	5	6	7	2
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3
225(0,11) =	1	-14	-1	-3	-2	-30	2	-10	30	10	3	3	4
225(0,12) =	1	-14	2	0	-24	0	-9	-25	-35	15	-14	-8	-3
225(0,13) =	1	-14	-1	3	-2	-90	7	-15	5	-15	13	-6	-17
225(0,14) =	1	-14	-1	-3	8	-60	-3	5	-15	35	3	13	14
225(1, 2) =	1	1	2	0	-2	0	0	0	-10	-10	3	-14	1
225(1, 3) =	1	1	-1	3	3	45	-8	20	-10	-10	8	9	3
225(1, 4) =	1	1	-1	-3	-2	30	12	0	-10	-10	3	13	4
225(1, 5) =	1	1	2	0	-2	0	5	-25	15	-5	-12	-9	1
225(1, 6) =	1	1	-1	3	-7	15	-3	5	15	5	3	4	8
225(1, 7) =	1	1	-1	-3	-2	-60	-3	15	5	5	3	-2	4
225(1, 8) =	1	1	2	0	-12	0	-5	5	5	5	8	-9	6
225(1, 9) =	1	1	-1	3	13	15	-3	-15	-25	5	-12	4	-2
225(1,10) =	1	1	-1	-3	-2	-30	2	-10	0	-20	3	-12	-11
225(1,11) =	1	1	2	0	8	0	0	20	0	20	-12	1	-4
225(1,12) =	1	1	-1	3	-2	-30	12	0	-10	-10	3	-11	-2
225(1,13) =	1	1	-1	-3	3	45	-8	-10	20	-10	-7	3	-6
225(2, 4) =	1	1	2	0	-12	0	-5	5	5	5	8	6	6
225(2, 5) =	1	1	-1	3	3	-45	-3	-25	-5	15	13	4	3
225(2, 6) =	1	1	-1	-3	13	-15	-3	-15	-25	5	-12	-2	4
225(2, 7) =	1	1	2	0	-2	0	10	0	-10	0	-2	6	1
225(2, 8) =	1	1	-1	3	3	-45	7	5	5	5	-7	9	3
225(2, 9) =	1	1	-1	-3	3	45	7	5	5	5	-7	-12	-6
225(2,10) =	1	1	2	0	18	0	0	-10	10	0	-2	1	-9
225(2,11) =	1	1	-1	3	-2	60	-3	15	5	5	3	-11	-2
225(2,12) =	1	1	-1	-3	-2	0	7	15	5	15	-2	3	-11
225(3, 6) =	1	1	2	0	6	0	1	5	5	-25	-4	-3	-3
225(3, 7) =	1	1	-1	3	3	-45	-8	-10	20	-10	-7	-6	3
225(3, 8) =	1	1	-1	-3	3	45	-3	-25	-5	15	13	-2	9
225(3, 9) =	1	1	2	0	-14	0	6	0	-10	20	6	7	-8
225(3,10) =	1	1	-1	3	-2	0	7	15	5	15	-2	-6	13
225(3,11) =	1	1	-1	-3	3	-45	-8	20	-10	-10	8	3	-6
225(4, 8) =	1	1	2	0	-2	0	0	0	-10	-10	3	16	1
225(4, 9) =	1	1	-1	3	-2	30	2	-10	0	-20	3	9	13
225(4,10) =	1	1	-1	-3	-7	-15	-3	5	15	5	3	-2	-1
225(5,10) =	1	1	2	0	18	0	-15	15	-15	-15	18	6	-9

TABLE 22.1 IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 3), IND 3 = 3 (MOD 5), IND 5 = 0 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	12	0	21	15	-15	-15	12	9	-21	-18
225(0, 1) =	1	-14	-1	3	-2	30	2	-10	30	10	3	4	23	-12
225(0, 2) =	1	-14	-1	-3	8	60	-3	5	-5	-15	23	-2	4	3
225(0, 3) =	1	-14	2	0	-8	0	1	15	35	15	2	9	-1	2
225(0, 4) =	1	-14	-1	3	-12	0	-3	5	-15	35	3	14	18	23
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	2	0	-8	0	-4	20	0	-20	-18	-11	-1	12
225(0, 7) =	1	-14	-1	3	8	-60	-3	5	-5	-15	23	4	13	3
225(0, 8) =	1	-14	-1	-3	-2	-30	7	-15	5	-15	-7	3	-16	-7
225(0, 9) =	1	-14	2	0	12	0	-9	-25	15	5	-18	-1	-6	2
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	-2	-30	2	-10	30	10	3	-17	-16	-12
225(0,12) =	1	-14	2	0	32	0	-9	-25	-35	15	2	4	-11	-18
225(0,13) =	1	-14	-1	3	-2	30	7	-15	5	-15	-7	-6	23	-7
225(0,14) =	1	-14	-1	-3	-12	0	-3	5	-15	35	3	-7	-6	23
225(1, 2) =	1	1	2	0	-10	0	0	0	-10	-10	5	20	-5	0
225(1, 3) =	1	1	-1	3	3	-75	-8	20	-10	-10	-12	-1	3	-2
225(1, 4) =	1	1	-1	-3	9	-60	12	0	-10	-10	-7	-7	4	3
225(1, 5) =	1	1	2	0	10	0	5	-25	15	-5	0	-5	5	0
225(1, 6) =	1	1	-1	3	3	45	-3	5	15	5	3	-16	-12	-7
225(1, 7) =	1	1	-1	-3	8	30	-3	15	5	5	-7	8	4	3
225(1, 8) =	1	1	2	0	0	0	-5	5	5	5	0	5	0	-5
225(1, 9) =	1	1	-1	3	-7	15	-3	-15	-25	5	8	-16	-2	-12
225(1,10) =	1	1	-1	-3	-2	-30	2	-10	0	-20	3	-2	-1	3
225(1,11) =	1	1	2	0	0	0	0	20	0	20	0	5	0	-10
225(1,12) =	1	1	-1	3	8	60	12	0	-10	-10	-7	-1	-2	3
225(1,13) =	1	1	-1	-3	3	-15	-8	-10	20	-10	3	-7	-6	13
225(2, 4) =	1	1	2	0	0	0	-5	5	5	5	0	-10	0	-5
225(2, 5) =	1	1	-1	3	-7	-15	-3	-25	-5	15	-7	4	-17	3
225(2, 6) =	1	1	-1	-3	-7	-15	-3	-15	-25	5	8	8	4	-12
225(2, 7) =	1	1	2	0	10	0	10	0	-10	0	-10	0	5	20
225(2, 8) =	1	1	-1	3	3	15	7	5	5	5	3	-1	3	-2
225(2, 9) =	1	1	-1	-3	3	-15	7	5	5	5	3	9	-6	-2
225(2,10) =	1	1	2	0	-10	0	0	-10	10	0	-10	-5	-5	0
225(2,11) =	1	1	-1	3	8	-30	-3	15	5	5	-7	-1	-2	3
225(2,12) =	1	1	-1	-3	-2	60	7	15	5	15	8	3	-1	-7
225(3, 6) =	1	1	2	0	-10	0	1	5	5	-25	12	-1	9	-8
225(3, 7) =	1	1	-1	3	3	15	-8	-10	20	-10	3	14	3	13
225(3, 8) =	1	1	-1	-3	-7	15	-3	-25	-5	15	-7	-2	19	3
225(3, 9) =	1	1	2	0	2	0	6	0	-10	20	2	-1	4	12
225(3,10) =	1	1	-1	3	-2	-60	7	15	5	15	8	-6	-7	-7
225(3,11) =	1	1	-1	-3	3	75	-8	20	-10	-10	-12	-7	-6	-2
225(4, 8) =	1	1	2	0	-10	0	0	0	-10	-10	5	-10	-5	0
225(4, 9) =	1	1	-1	3	-2	30	2	-10	0	-20	3	19	-7	3
225(4,10) =	1	1	-1	-3	3	-45	-3	5	15	5	3	8	9	-7
225(5,10) =	1	1	2	0	30	0	-15	15	-15	-15	30	0	15	0

TABLE 23: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	0	0	21	15	-15	-15	18	-3	-45	-12
225(0, 1) =	1	-14	-1	3	-2	-30	2	-10	30	10	3	24	13	-22
225(0, 2) =	1	-14	-1	-3	-6	-30	-3	5	-5	-15	13	-2	24	3
225(0, 3) =	1	-14	2	0	10	-30	1	15	35	15	-2	-3	-5	8
225(0, 4) =	1	-14	-1	3	8	0	-3	5	-15	35	3	4	8	13
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	2	0	10	30	-4	20	0	-20	-12	-3	-5	8
225(0, 7) =	1	-14	-1	3	-12	60	-3	5	-5	-15	13	4	3	3
225(0, 8) =	1	-14	-1	-3	4	60	7	-15	5	-15	13	3	4	-7
225(0, 9) =	1	-14	2	0	-10	30	-9	-25	15	5	-12	7	-10	-2
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	4	0	2	-10	30	10	3	3	4	8
225(0,12) =	1	-14	2	0	-30	-30	-9	-25	-35	15	-2	-8	-15	-12
225(0,13) =	1	-14	-1	3	-2	-30	7	-15	5	-15	-17	-6	13	-7
225(0,14) =	1	-14	-1	-3	14	-30	-3	5	-15	35	3	-17	14	13
225(1, 2) =	1	1	2	0	7	15	0	0	-10	-10	12	16	-8	17
225(1, 3) =	1	1	-1	3	3	75	-8	20	-10	-10	-7	9	3	-7
225(1, 4) =	1	1	-1	-3	-11	45	12	0	-10	-10	-12	-2	4	8
225(1, 5) =	1	1	2	0	-8	30	5	-25	15	-5	-3	-9	7	2
225(1, 6) =	1	1	-1	3	-7	-45	-3	5	15	5	3	-11	-7	-2
225(1, 7) =	1	1	-1	-3	-11	-45	-3	15	5	5	3	-2	4	-7
225(1, 8) =	1	1	2	0	-3	-15	-5	5	5	5	-13	6	-3	2
225(1, 9) =	1	1	-1	3	13	-15	-3	-15	-25	5	3	-11	-2	-7
225(1,10) =	1	1	-1	-3	4	0	2	-10	0	-20	3	-12	-11	-7
225(1,11) =	1	1	2	0	2	30	0	20	0	20	-3	1	2	-8
225(1,12) =	1	1	-1	3	-2	-60	12	0	-10	-10	3	4	-2	-7
225(1,13) =	1	1	-1	-3	-6	30	-8	-10	20	-10	-7	-12	-6	8
225(2, 4) =	1	1	2	0	-3	-15	-5	5	5	5	17	-9	-3	-13
225(2, 5) =	1	1	-1	3	3	15	-3	-25	-5	15	-2	4	-12	3
225(2, 6) =	1	1	-1	-3	4	0	-3	-15	-25	5	3	13	4	-7
225(2, 7) =	1	1	2	0	-8	-30	10	0	-10	0	-8	6	7	17
225(2, 8) =	1	1	-1	3	3	-15	7	5	5	5	-7	-6	3	8
225(2, 9) =	1	1	-1	-3	-6	30	7	5	5	5	8	3	-6	-7
225(2,10) =	1	1	2	0	12	-30	0	-10	10	0	-8	1	-3	-1
225(2,11) =	1	1	-1	3	-2	30	-3	15	5	5	-12	-11	-2	8
225(2,12) =	1	1	-1	-3	4	-30	7	15	5	15	-3	3	-11	-7
225(3, 6) =	1	1	2	0	15	-15	1	5	5	-25	8	-3	15	-7
225(3, 7) =	1	1	-1	3	3	-15	-8	-10	20	-10	8	9	3	8
225(3, 8) =	1	1	-1	-3	9	15	-3	-25	-5	15	-2	-2	9	1
225(3, 9) =	1	1	2	0	-5	15	6	0	-10	20	3	7	10	8
225(3,10) =	1	1	-1	3	-2	60	7	15	5	15	13	-6	-2	-7
225(3,11) =	1	1	-1	-3	-6	-60	-8	20	-10	-10	-7	3	-6	8
225(4, 8) =	1	1	2	0	7	15	0	0	-10	-10	-3	-14	-8	-13
225(4, 9) =	1	1	-1	3	-2	-30	2	-10	0	-20	3	9	-2	8
225(4,10) =	1	1	-1	-3	-1	15	-3	5	15	5	3	13	-1	-2
225(4,10) =	1	1	2	0	-18	0	-15	15	-15	-15	27	6	27	-3

TABLE 24 : IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	-24	0	21	15	-15	-15	30	9	51	0
225(0, 1) =	1	-14	-1	3	-2	-30	2	-10	30	10	3	4	-7	10
225(0, 2) =	1	-14	-1	-3	14	30	-3	5	-5	-15	-7	-2	4	3
225(0, 3) =	1	-14	2	0	-14	-30	1	15	35	15	-10	9	11	20
225(0, 4) =	1	-14	-1	3	-12	-60	-3	5	-15	35	3	-16	-12	-7
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	2	0	-14	30	-4	20	0	-20	0	-11	11	0
225(0, 7) =	1	-14	-1	3	8	0	-3	5	-5	-15	-7	4	-17	3
225(0, 8) =	1	-14	-1	-3	4	-60	7	-15	5	-15	-7	3	-16	-7
225(0, 9) =	1	-14	2	0	6	30	-9	-25	15	5	0	-1	6	-10
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	4	0	2	-10	30	10	3	-17	-16	-12
225(0,12) =	1	-14	2	0	26	-30	-9	-25	-35	15	-10	4	1	0
225(0,13) =	1	-14	-1	3	-2	90	7	-15	5	-15	23	-6	-7	-7
225(0,14) =	1	-14	-1	-3	-6	30	-3	5	-15	35	3	23	-6	-7
225(1, 2) =	1	1	2	0	-1	15	0	0	-10	-10	-4	-10	4	-9
225(1, 3) =	1	1	-1	3	3	-45	-8	20	-10	-10	3	-1	3	13
225(1, 4) =	1	1	-1	-3	-1	-45	12	0	-10	-10	8	8	4	-12
225(1, 5) =	1	1	2	0	4	30	5	-25	15	-5	-9	-5	-1	6
225(1, 6) =	1	1	-1	3	3	-15	-3	5	15	5	3	-1	3	8
225(1, 7) =	1	1	-1	-3	-1	45	-3	15	5	5	-7	8	4	3
225(1, 8) =	1	1	2	0	9	-15	-5	5	5	5	21	-10	9	-14
225(1, 9) =	1	1	-1	3	-7	-15	-3	-15	-25	5	-7	-1	-2	1
225(1,10) =	1	1	-1	-3	4	0	2	-10	0	-20	3	-2	-1	3
225(1,11) =	1	1	2	0	-6	30	0	20	0	20	-9	5	-6	-4
225(1,12) =	1	1	-1	3	8	30	12	0	-10	-10	-7	-16	-2	1
225(1,13) =	1	1	-1	-3	-6	-30	-8	-10	20	-10	3	8	-6	-2
225(2, 4) =	1	1	2	0	9	-15	-5	5	5	5	-9	5	9	1
225(2, 5) =	1	1	-1	3	-7	45	-3	-25	-5	15	8	4	-2	3
225(2, 6) =	1	1	-1	-3	-16	0	-3	-15	-25	5	-7	-7	4	3
225(2, 7) =	1	1	2	0	4	-30	10	0	-10	0	-4	0	-1	11
225(2, 8) =	1	1	-1	3	3	45	7	5	5	5	3	14	3	-2
225(2, 9) =	1	1	-1	-3	-6	-30	7	5	5	5	-12	-7	-6	13
225(2,10) =	1	1	2	0	-16	-30	0	-10	10	0	-4	-5	-11	-9
225(2,11) =	1	1	-1	3	8	-60	-3	15	5	5	8	-1	-2	-12
225(2,12) =	1	1	-1	-3	4	30	7	15	5	15	8	3	-1	-3
225(3, 6) =	1	1	2	0	-9	-15	1	5	5	-25	0	-1	-9	-9
225(3, 7) =	1	1	-1	3	3	45	-8	-10	20	-10	-12	-1	3	-3
225(3, 8) =	1	1	-1	-3	-1	-15	-3	-25	-5	15	8	-2	19	3
225(3, 9) =	1	1	2	0	11	15	6	0	-10	20	5	-1	-14	6
225(3,10) =	1	1	-1	3	-2	0	7	15	5	15	-7	-6	8	-3
225(3,11) =	1	1	-1	-3	-6	60	-8	20	-10	-10	3	-7	-6	-3
225(4, 8) =	1	1	2	0	-1	15	0	0	-10	-10	11	20	4	21
225(4, 9) =	1	1	-1	3	-2	-30	2	-10	0	-20	3	19	8	-12
225(4,10) =	1	1	-1	-3	9	-15	-3	5	15	5	3	-7	9	6
225(5,10) =	1	1	2	0	-6	0	-15	15	-15	-15	21	0	-21	-9

TABLE 25: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 4 (MOD 5), IND 5 = 0 (

	I	J	A	C	D	X	G	V	L	30	31	32	B
225(0, 0) =	1	-44	2	0	36	0	-9	45	15	15	36	27	-3	
225(0, 1) =	1	-14	-1	3	-12	0	2	10	-10	-10	-17	24	13	-
225(0, 2) =	1	-14	-1	-3	8	60	-13	-25	5	-5	3	-22	14	1
225(0, 3) =	1	-14	2	0	16	0	1	15	-25	-5	6	7	-3	
225(0, 4) =	1	-14	-1	3	-2	90	7	15	15	5	13	4	8	
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	3	-24	0	-4	-20	20	-40	-14	-3	7	1
225(0, 7) =	1	-14	-1	3	8	-60	-13	-25	5	-5	3	14	-7	1
225(0, 8) =	1	-14	-1	-3	-2	30	7	-15	5	25	3	-17	-6	-2
225(0, 9) =	1	-14	2	0	16	0	1	-15	-15	35	-14	7	2	
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-12	0	2	10	-10	-10	-17	-27	-26	-
225(0,12) =	1	-14	2	0	-4	0	11	-25	5	-5	6	2	-13	-1
225(0,13)	1	-14	-1	3	-2	-30	7	-15	5	25	3	4	3	-2
225(0,14) =	1	-14	-1	-3	-2	-90	7	15	15	5	13	-17	14	
225(1, 2) =	1	1	2	0	-12	0	0	-10	-10	0	9	6	-19	
225(1, 3) =	1	1	-1	3	13	-15	-3	-5	15	-25	-12	4	8	-
225(1, 4)	1	1	-1	-3	0	-45	-3	5	5	15	-7	2	-1	
225(1, 5) =	1	1	2	0	18	0	5	-5	5	5	-2	-9	1	-
225(1, 6) =	1	1	-1	3	-2	0	-8	0	0	20	-2	-11	-7	
225(1, 7) =	1	1	-1	-3	3	45	-3	5	-25	-15	8	2	14	-1
225(1, 8) =	1	1	2	0	-2	0	0	10	0	-10	3	1	-4	-
225(1, 9) =	1	1	-1	3	3	45	12	-10	-10	0	-7	-6	-7	
225(1,10) =	1	1	-1	-3	3	-45	2	-20	20	-10	13	3	4	-
225(1,11) =	1	1	2	0	-2	0	-5	15	15	5	-2	1	-4	-1
225(1,12) =	1	1	-1	3	3	45	-3	5	5	15	-7	-6	8	
225(1,13) =	1	1	-1	-3	-2	60	-3	-5	-15	5	3	-2	-1	1
225(2, 4)	1	1	2	0	-2	0	0	10	0	-10	3	1	11	-
225(2, 5) =	1	1	-1	3	-7	-15	2	-10	-10	10	3	-1	-7	-
225(2, 6)	1	1	-1	-3	3	-45	12	-10	-10	0	-7	3	-1	
225(2, 7) =	1	1	2	0	-2	0	10	0	20	10	-12	1	6	1
225(2, 8)	1	1	-1	3	-2	30	-3	25	15	5	3	4	-7	-
225(2, 9) =	1	1	-1	-3	-2	-30	-3	25	15	5	3	-2	-1	-
225(2,10) =	1	1	2	0	3	0	-10	-10	-10	10	-12	-4	-4	-
225(2,11) =	1	1	-1	3	3	-45	-3	5	-25	-15	8	-6	-7	-1
225(2,12) =	1	1	-1	-3	-2	30	-3	15	5	-5	3	13	-6	
225(3, 6) =	1	1	2	0	-14	0	-9	-5	15	5	6	-8	2	-1
225(3, 7) =	1	1	-1	3	-2	-60	-3	-5	-15	5	3	4	8	1
225(3, 8) =	1	1	-1	-3	-7	15	2	-10	-10	10	3	8	14	-
225(3, 9) =	1	1	2	0	6	0	6	20	-10	0	-4	-3	2	
225(3,10) =	1	1	-1	3	-2	-30	7	15	5	-5	3	-11	3	
225(3,11) =	1	1	-1	-3	13	15	-3	-5	15	-25	-12	-2	-16	-
225(4, 8) =	1	1	2	0	-12	0	0	-10	-10	0	8	6	11	
225(4, 9) =	1	1	-1	3	3	45	2	-20	20	-10	13	0	-2	-
225(4,10) =	1	1	-1	-3	-2	0	-8	0	0	20	-2	13	-1	
225(5,10) =	1	1	2	0	18	0	0	0	-30	-30	18	-9	6	-1

TABLE 26: IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 0 (M

	P	1	A	I	C	D	K	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	12	0	-9	45	15	15	12	-21	9	-18
225(0, 1) =	1	-14	-1	3	8	60	2	10	-10	-10	23	4	-7	-2
225(0, 2) =	1	-14	-1	-3	-12	0	-13	-25	5	-5	3	18	14	-7
225(0, 3) =	1	-14	2	0	-8	0	1	15	-25	-5	-18	-1	0	22
225(0, 4) =	1	-14	-1	3	-2	-30	7	15	15	5	-7	-16	-12	3
225(0, 5) =	1	-14	-1	-3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	2	0	32	0	-4	-20	20	-40	2	-11	-1	-8
225(0, 7) =	1	-14	-1	3	-12	0	-13	-25	5	-5	3	-6	-7	-7
225(0, 8) =	1	-14	-1	-3	-2	30	7	-15	5	25	3	23	-6	13
225(0, 9) =	1	-14	2	0	-8	0	1	-15	-15	35	2	-1	-6	-18
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	8	-60	2	10	-10	-10	23	13	14	-2
225(0,12) =	1	-14	2	0	12	0	11	25	5	-5	-18	-6	-1	1
225(0,13) =	1	-14	-1	3	-2	-30	7	-15	5	25	3	-16	3	13
225(0,14) =	1	-14	-1	-3	-2	30	7	15	15	5	-7	23	-6	1
225(1, 2) =	1	1	2	0	0	0	0	-10	-10	0	0	0	15	5
225(1, 3) =	1	1	-1	3	-7	-15	-3	-5	15	-25	8	4	-2	6
225(1, 4) =	1	1	-1	-3	3	15	-3	5	5	15	3	3	9	-1
225(1, 5) =	1	1	2	0	-10	0	5	-5	5	5	-10	-5	5	10
225(1, 6) =	1	1	-1	3	-2	60	-8	0	0	20	8	-1	3	1
225(1, 7) =	1	1	-1	-3	3	-75	-3	5	-25	-15	-12	3	-6	1
225(1, 8) =	1	1	2	0	-10	0	0	10	0	-10	5	-5	10	-10
225(1, 9) =	1	1	-1	3	3	-15	12	-10	-10	0	3	-6	3	-3
225(1,10) =	1	1	-1	-3	-7	-15	2	-20	20	-10	-7	-17	-16	-1
225(1,11) =	1	1	2	0	10	0	-5	15	15	5	-10	5	0	-1
225(1,12) =	1	1	-1	3	3	-15	-3	5	5	15	3	-6	-12	-1
225(1,13) =	1	1	-1	-3	3	-30	-3	-5	-15	5	-7	-2	-11	-1
225(2, 4) =	1	1	2	0	-10	0	0	10	0	-10	5	-5	-5	-1
225(2, 5) =	1	1	-1	3	3	-45	2	-10	-10	10	3	9	-7	
225(2, 6) =	1	1	-1	-3	3	15	12	-10	-10	0	3	3	9	-1
225(2, 7) =	1	1	2	0	10	0	10	0	20	10	0	5	0	1
225(2, 8) =	1	1	-1	3	9	-60	-3	25	15	5	-7	4	13	
225(2, 9) =	1	1	-1	-3	8	60	-3	25	15	5	-7	-2	-11	
225(2,10) =	1	1	2	0	0	0	-10	-10	-10	10	0	0	-10	-1
225(2,11) =	1	1	-1	3	3	75	-3	5	-25	-15	-12	-6	3	
225(2,12) =	1	1	-1	-3	-2	30	7	15	5	-5	3	-7	-6	-1
225(3, 6) =	1	1	2	0	2	0	-9	-5	15	5	2	4	4	
225(3, 7) =	1	1	-1	3	8	30	-3	-5	-15	5	-7	4	-2	-1
225(3, 8) =	1	1	-1	-3	3	45	2	-10	-10	10	3	-12	14	
225(3, 9) =	1	1	2	0	-18	0	5	20	-10	0	12	9	-6	
225(3,10) =	1	1	-1	3	-2	-30	7	15	5	-5	3	-1	3	-1
225(3,11) =	1	1	-1	-3	-7	15	-3	-5	15	-25	8	-2	4	
225(4, 8) =	1	1	2	0	0	0	0	-10	-10	0	0	0	-15	
225(4, 9) =	1	1	-1	3	-7	15	2	-20	20	-10	-7	19	3	-1
225(4,10) =	1	1	-1	-3	-2	-60	-8	0	0	20	8	-7	9	
225(5,10) =	1	1	2	0	30	0	0	0	-30	-30	30	15	0	

TABLE 27 : IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 4 (MOD 5), IND 5 = 1 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	3	0	0	0	-9	45	15	15	18	27	15	-1
225(0, 1) =	1	-14	-1	3	-12	-60	2	10	-10	-10	13	-6	13	-
225(0, 2) =	1	-14	-1	-3	14	30	-13	-25	5	-5	3	8	14	1
225(0, 3) =	1	-14	2	0	10	-30	1	15	-25	-5	-12	7	15	1
225(0, 4) =	1	-14	-1	3	-2	30	7	15	15	5	-17	-26	-22	
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	2	0	-30	30	-4	-20	20	-40	-2	-3	-5	-
225(0, 7) =	1	-14	-1	3	8	0	-13	-25	5	-5	3	-16	-7	-1
225(0, 8) =	1	-14	-1	-3	4	0	7	-15	5	25	3	13	-6	
225(0, 9) =	1	-14	2	0	10	30	1	-15	-15	35	-2	7	-10	-1
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	-3	-6	30	2	10	-10	-10	13	3	4	-
225(0,12) =	1	-14	2	0	-10	-30	11	-25	5	-5	-12	2	5	-
225(0,13) =	1	-14	-1	3	-2	30	7	-15	5	25	3	-26	3	
225(0,14) =	1	-14	-1	-3	4	-60	7	15	15	5	13	13	-16	
225(1, 2) =	1	1	2	0	-3	15	0	-10	-10	0	-13	0	2	-
225(1, 3) =	1	1	-1	3	13	15	-3	-5	15	-25	3	4	0	1
225(1, 4) =	1	1	-1	-3	-6	-30	-3	5	5	15	8	3	-1	-1
225(1, 5) =	1	1	2	0	12	30	5	-5	5	5	-8	-9	7	
225(1, 6) =	1	1	-1	3	-2	-60	-8	0	0	20	13	4	8	
225(1, 7) =	1	1	-1	-3	-6	60	-3	5	-25	-15	-7	3	-1	
225(1, 8) =	1	1	2	0	7	-15	0	10	0	-10	-3	1	2	
225(1, 9) =	1	1	-1	3	3	15	12	-10	-10	0	8	-6	8	-1
225(1,10) =	1	1	-1	-3	9	-15	2	-20	20	-10	-2	-12	-11	
225(1,11) =	1	1	2	0	-8	30	-5	15	15	5	-8	1	2	
225(1,12) =	1	1	-1	3	3	15	-3	5	5	15	-7	-6	-7	
225(1,13) =	1	1	-1	-3	-11	45	-3	-5	-15	5	2	-2	-16	
225(2, 4) =	1	1	2	0	7	-15	0	10	0	-10	12	1	2	-2
225(2, 5) =	1	1	-1	3	-7	45	2	-10	-10	10	3	14	-7	
225(2, 6) =	1	1	-1	-3	-6	-30	12	-10	-10	0	-7	3	14	
225(2, 7) =	1	1	2	0	-8	-30	10	0	20	10	-3	1	-3	
225(2, 8) =	1	1	-1	3	-2	60	-3	25	15	5	3	4	8	
225(2, 9) =	1	1	-1	-3	-11	-45	-3	25	15	5	-12	-2	-1	
225(2,10) =	1	1	2	0	2	-30	-10	-10	-10	10	-3	-4	-13	
225(2,11) =	1	1	-1	3	3	-75	-3	5	-25	-15	-7	-6	-7	
225(2,12) =	1	1	-1	-3	4	0	7	15	5	-5	3	-3	-6	-1
225(3, 6) =	1	1	2	0	-5	-15	-9	-5	15	5	3	-8	5	
225(3, 7) =	1	1	-1	3	-2	-30	-3	-5	-15	5	-12	4	-7	
225(3, 8) =	1	1	-1	-3	-1	-15	2	-10	-10	10	3	-7	14	
225(3, 9) =	1	1	2	0	15	15	6	20	-10	0	8	-3	-10	
225(3,10) =	1	1	-1	3	-2	30	7	15	5	-5	3	4	3	-
225(3,11) =	1	1	-1	-3	4	0	-3	-5	15	-25	3	-2	-1	
225(4, 8) =	1	1	2	0	-3	15	0	-10	-10	0	17	6	2	
225(4, 9) =	1	1	-1	3	3	-15	2	-20	20	-10	-2	24	-2	
225(4,10) =	1	1	-1	-3	4	30	-8	0	0	20	-2	-2	14	
225(5,10) =	1	1	2	0	-10	0	0	0	-30	-30	27	-9	-3	

TABLE 28 : IND 2 = 0 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 4 (MOD 5), IND 5 = 1 (M

	P	Y	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	2	0	-24	0	-9	45	15	15	30	-21	-9	0
225(0, 1) =	1	-14	-1	3	8	0	2	10	-10	-10	-7	34	-7	-2
225(0, 2) =	1	-14	-1	-3	-6	-30	-13	-25	5	-5	3	-12	14	-7
225(0, 3) =	1	-14	2	0	-14	-30	1	15	-25	-5	0	-1	-9	10
225(0, 4) =	1	-14	-1	3	-2	-90	7	15	15	5	23	14	18	3
225(0, 5) =	1	-14	-1	-3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	2	0	26	30	-4	-20	20	-40	-10	-11	11	10
225(0, 7) =	1	-14	-1	3	-12	60	-13	-25	5	-5	3	24	-7	23
225(0, 8) =	1	-14	-1	-3	4	0	7	-15	5	25	0	-7	-6	-17
225(0, 9) =	1	-14	2	0	-14	30	1	-15	-15	35	-10	-1	6	0
225(0,10) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	-3	14	-30	2	10	-10	-10	-7	-17	-16	-2
225(0,12) =	1	-14	2	0	6	-30	11	-25	5	-5	0	-6	-19	-10
225(0,13) =	1	-14	-1	3	-2	30	7	-15	5	25	3	14	3	-17
225(0,14) =	1	-14	-1	-3	4	60	7	15	15	5	-7	-7	24	
225(1, 2) =	1	1	2	0	9	15	0	-10	-10	0	21	0	-6	11
225(1, 3) =	1	1	-1	3	-7	15	-3	-5	15	-25	-7	4	-2	-7
225(1, 4) =	1	1	-1	-3	-6	30	-3	5	5	15	-12	3	9	6
225(1, 5) =	1	1	2	0	-16	30	5	-5	5	5	-4	-5	-1	1
225(1, 6) =	1	1	-1	3	-2	0	-8	0	0	20	-7	-16	-12	
225(1, 7) =	1	1	-1	-3	-6	-60	-3	5	-25	-15	3	3	9	-3
225(1, 8) =	1	1	2	0	-1	-15	0	10	0	-10	11	-5	4	-15
225(1, 9) =	1	1	-1	3	3	-45	12	-10	-10	0	-12	-6	-12	6
225(1,10) =	1	1	-1	-3	-1	15	2	-20	20	-10	8	-2	-1	-3
225(1,11) =	1	1	2	0	4	30	-5	15	15	5	-4	5	-5	-6
225(1,12) =	1	1	-1	3	3	-45	-3	5	5	15	3	-6	3	-3
225(1,13) =	1	1	-1	-3	-1	-45	-3	-5	-15	5	-7	-2	4	6
225(2, 4) =	1	1	2	0	-1	-15	0	10	0	-10	-4	-5	4	1
225(2, 5) =	1	1	-1	3	3	15	2	-10	-10	10	3	-6	-7	-3
225(2, 6) =	1	1	-1	-3	-6	30	12	-10	-10	0	3	3	-6	-1
225(2, 7) =	1	1	2	0	4	-30	10	0	20	10	-9	5	9	1
225(2, 8) =	1	1	-1	3	8	-30	-3	25	15	5	-7	4	-2	
225(2, 9) =	1	1	-1	-3	-1	45	-3	25	15	5	8	-2	-11	-1
225(2,10) =	1	1	2	0	-6	-30	-10	-10	-10	10	-9	0	-1	-1
225(2,11) =	1	1	-1	3	3	45	-3	5	-25	-15	3	-6	3	-1
225(2,12) =	1	1	-1	-3	4	0	7	15	5	-5	3	8	-6	-1
225(3, 6) =	1	1	2	0	11	-15	-9	-5	15	5	5	4	1	-1
225(3, 7) =	1	1	-1	3	8	60	-3	-5	-15	5	8	4	13	
225(3, 8) =	1	1	-1	-3	9	15	2	-10	-10	10	3	3	14	
225(3, 9) =	1	1	2	0	-9	15	6	20	-10	0	0	9	6	
225(3,10) =	1	1	-1	3	-2	30	7	15	5	-5	3	-16	3	-1
225(3,11) =	1	1	-1	-3	-16	0	-3	-5	15	-25	-7	-2	-11	
225(4, 8) =	1	1	2	0	9	15	0	-10	-10	0	-9	0	-6	-1
225(4, 9) =	1	1	-1	3	-7	-45	2	-20	20	-10	8	4	8	
225(4,10) =	1	1	-1	-3	4	-30	-8	0	0	20	8	8	-6	
225(5,10) =	1	1	2	0	-6	0	0	0	-30	-30	21	15	9	-1

TABLE 29 : IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = C (MOD 5), IND 5 = 0 (

	P	I	A	B	C	[illegible]	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	-24	0	36	0	0	0	-24	-3	-3	
225(0, 1) =	1	-14	2	0	-3	-30	-3	5	35	25	13	-6	3	-
225(0, 2) =	1	-14	-1	3	-2	-30	-3	35	-5	-25	13	-3	-6	-1
225(0, 3) =	1	-14	-1	-3	16	0	-9	-5	35	5	-14	-3	7	
225(0, 4) =	1	-14	2	0	-2	-30	-3	-5	-35	25	13	4	-2	
225(0, 5) =	1	-14	-1	3	-12	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	16	0	-9	35	5	-5	-14	-3	-3	1
225(0, 7) =	1	-14	2	0	-2	30	-3	35	-5	-25	13	4	3	-1
225(0, 8) =	1	-14	-1	3	-2	-30	-3	-35	5	-25	13	3	4	
225(0, 9) =	1	-14	-1	-3	16	0	-9	-35	-5	-5	-14	7	-8	
225(0,10) =	1	-14	2	0	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	30	-3	5	35	25	13	3	-6	-
225(0,12) =	1	-14	-1	-3	16	0	-9	5	-35	5	-14	-8	-3	-1
225(0,13) =	1	-14	2	0	-2	30	-3	-35	5	-25	13	-6	13	
225(0,14) =	1	-14	-1	3	-2	30	-3	-5	-35	25	13	13	4	
225(1, 2) =	1	1	-1	-3	-2	0	0	0	0	-20	-2	16	6	
225(1, 3) =	1	1	2	0	-2	0	-3	15	-15	5	-2	-6	-2	1
225(1, 4) =	1	1	-1	3	13	-45	12	0	0	-20	-2	13	9	
225(1, 5) =	1	1	-1	-3	-2	0	0	-10	20	10	-2	-9	6	-
225(1, 6) =	1	1	2	0	-2	60	-3	-5	-5	-5	-2	-11	-2	
225(1, 7) =	1	1	-1	3	-2	0	-3	15	15	-5	-2	-2	9	
225(1, 8) =	1	1	-1	-3	-2	0	0	0	0	20	-2	6	-14	-
225(1, 9) =	1	1	2	0	-2	0	-3	-15	-15	-5	-2	-11	3	-1
225(1,10) =	1	1	-1	3	-2	-60	-3	5	5	-5	-2	-12	-6	-
225(1,11) =	1	1	-1	-3	-2	0	0	10	-20	10	-2	1	1	-1
225(1,12) =	1	1	2	0	13	45	12	0	0	-20	-2	-11	-12	
225(1,13) =	1	1	-1	3	-2	0	-3	-15	15	5	-2	3	-11	-
225(2, 4) =	1	1	-1	-3	-2	0	0	0	0	20	-2	-9	16	-
225(2, 5) =	1	1	2	0	-2	-60	-3	5	-5	5	-2	4	-12	1
225(2, 6) =	1	1	-1	3	-2	0	-3	-15	-15	-5	-2	-2	-6	-1
225(2, 7) =	1	1	-1	-3	-2	0	0	-20	-10	-10	-2	6	1	1
225(2, 8) =	1	1	2	0	13	-45	12	0	0	20	-2	9	13	-
225(2, 9) =	1	1	-1	3	13	45	12	0	0	20	-2	-12	-11	-
225(2,10) =	1	1	-1	-3	-2	0	0	20	10	-10	-2	1	-9	-
225(2,11) =	1	1	2	0	-2	0	-3	15	15	-5	-2	4	3	
225(2,12) =	1	1	-1	3	-2	60	-3	-5	5	5	-2	3	-11	-1
225(3, 6) =	1	1	-1	-3	-14	0	6	0	0	-10	16	-3	7	-1
225(3, 7) =	1	1	2	0	-2	0	-3	-15	15	5	-2	9	-2	-
225(3, 8) =	1	1	-1	3	-2	60	-3	5	-5	5	-2	-2	24	1
225(3, 9) =	1	1	-1	-3	-14	0	6	0	0	10	16	7	-3	
225(3,10) =	1	1	2	0	-2	-60	-3	-5	5	5	-2	-6	-2	-
225(3,11) =	1	1	-1	3	-2	0	-3	15	-15	5	-2	3	4	
225(4, 8) =	1	1	-1	-3	-2	0	0	0	0	-20	-2	-14	-9	
225(4, 9) =	1	1	2	0	-2	60	-3	5	5	-5	-2	24	3	
225(4,10) =	1	1	-1	3	-2	-60	-3	-5	-5	-5	-2	-2	4	
225(5,10) =	1	1	-1	-3	48	0	0	0	0	0	48	6	6	-

TABLE 30 : IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	72	0	36	0	0	0	72	9	9	-1
225(0, 1) =	1	-14	2	0	-2	90	-3	5	35	25	-7	34	3	-
225(0, 2) =	1	-14	-1	3	-2	90	-3	35	-5	-25	-7	-2	34	2
225(0, 3) =	1	-14	-1	-3	-8	0	-9	-5	35	5	2	9	-1	2
225(0, 4) =	1	-14	2	0	-2	90	-3	-5	-35	25	-7	-16	-2	
225(0, 5) =	1	-14	-1	3	-12	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-8	0	-9	35	5	-5	2	-11	9	-
225(0, 7) =	1	-14	2	0	-2	-90	-3	35	-5	-25	-7	4	-17	2
225(0, 8) =	1	-14	-1	3	-2	90	-3	-35	5	-25	-7	3	-16	-1
225(0, 9) =	1	-14	-1	-3	-8	0	-9	-35	-5	-5	2	-1	4	-1
225(0,10) =	1	-14	2	0	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	-90	-3	5	35	25	-7	-17	-6	-
225(0,12) =	1	-14	-1	-3	-8	0	-9	5	-35	5	2	4	-11	
225(0,13) =	1	-14	2	0	-2	-90	-3	-35	5	-25	-7	-6	-7	-1
225(0,14) =	1	-14	-1	3	-2	-90	-3	-5	-35	25	-7	-7	4	
225(1, 2) =	1	1	-1	-3	-10	0	0	0	0	-20	10	-10	-10	
225(1, 3) =	1	1	2	0	8	-30	-3	15	-15	5	-2	14	8	-
225(1, 4) =	1	1	-1	3	-7	15	12	0	0	-20	-2	-7	-1	-
225(1, 5) =	1	1	-1	-3	10	0	0	-10	20	10	-10	-5	0	1
225(1, 6) =	1	1	2	0	-2	0	-3	-5	-5	-5	0	-1	-2	
225(1, 7) =	1	1	-1	3	8	-30	-3	15	15	-5	-2	8	-1	-
225(1, 8) =	1	1	-1	-3	-10	0	0	0	0	20	10	-10	20	-1
225(1, 9) =	1	1	2	0	8	30	-3	-15	-15	-5	-2	-1	-7	
225(1,10) =	1	1	-1	3	-2	0	-3	5	5	-5	8	-2	-6	-
225(1,11) =	1	1	-1	-3	10	0	0	10	-30	10	-10	5	-5	
225(1,12) =	1	1	2	0	-7	-15	12	0	0	-20	-2	-1	8	-
225(1,13) =	1	1	-1	3	8	30	-3	-15	15	5	-2	-7	-1	
225(2, 4) =	1	1	-1	-3	-10	0	0	0	0	20	10	5	-10	-1
225(2, 5) =	1	1	2	0	-2	0	-3	5	-5	5	3	4	-2	-
225(2, 6) =	1	1	-1	3	9	-30	-3	-15	-15	-5	-2	8	14	
225(2, 7) =	1	1	-1	-3	10	0	0	-20	-10	-10	-10	0	5	1
225(2, 8) =	1	1	2	0	-7	15	12	0	0	20	-2	-1	-7	
225(2, 9) =	1	1	-1	3	-7	-15	12	0	0	20	-2	0	-1	
225(2,10) =	1	1	-1	-3	10	0	0	20	10	-10	-10	-5	-5	-1
225(2,11) =	1	1	2	0	8	30	-3	15	15	-5	-2	-16	-7	-
225(2,12) =	1	1	-1	3	-2	0	-3	-5	5	5	9	3	-1	-
225(3, 6) =	1	1	-1	-3	2	0	6	0	0	-10	-8	-1	-1	
225(3, 7) =	1	1	2	0	3	-30	-3	-15	15	5	-2	-1	8	
225(3, 8) =	1	1	-1	3	-2	0	-3	5	-5	5	8	-2	4	-
225(3, 9) =	1	1	-1	-3	2	0	6	0	0	10	-8	-1	-1	
225(3,10) =	1	1	2	0	-2	0	-3	-5	5	5	8	-6	8	-
225(3,11) =	1	1	-1	3	8	30	-3	15	-15	5	-2	-7	-16	-
225(4, 8) =	1	1	-1	-3	-10	0	0	0	0	-20	10	20	5	
225(4, 9) =	1	1	2	0	-2	0	-3	5	-5	-5	8	4	3	-
225(4,10) =	1	1	-1	3	-2	0	-3	-5	-5	-5	8	8	4	
225(5,10) =	1	1	-1	-3	0	0	0	0	0	0	0	0	0	

TABLE 31 : IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-60	0	36	0	0	0	48	-3	15	-12
225(0, 1) =	1	-14	2	0	-2	-90	-3	5	35	25	13	24	3	-2
225(0, 2) =	1	-14	-1	3	4	-60	-3	35	-5	-25	-17	-2	24	13
225(0, 3) =	1	-14	-1	-3	10	-30	-9	-5	35	5	-2	-3	-5	18
225(0, 4) =	1	-14	2	0	-2	-90	-3	-5	-35	25	13	4	-2	3
225(0, 5) =	1	-14	-1	3	24	0	12	0	0	0	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	10	30	-9	35	5	-5	-2	-3	15	-2
225(0, 7) =	1	-14	2	0	-2	90	-3	35	-5	-25	13	4	3	13
225(0, 8) =	1	-14	-1	3	4	-60	-3	-35	5	-25	-17	3	-26	3
225(0, 9) =	1	-14	-1	-3	10	30	-9	-35	-5	-5	-2	7	10	-12
225(0,10) =	1	-14	2	0	-12	0	12	0	0	0	-12	-6	3	3
225(0,11) =	1	-14	-1	3	4	60	-3	5	35	25	-17	-27	-6	-2
225(0,12) =	1	-14	-1	-3	10	-30	-9	5	-35	5	-2	-8	-15	-2
225(0,13) =	1	-14	2	0	-2	90	-3	-35	5	-25	13	-6	-17	-27
225(0,14) =	1	-14	-1	3	4	60	-3	-5	-35	25	-17	13	4	3
225(1, 2) =	1	1	-1	-3	7	15	0	0	0	-20	7	-14	-3	12
225(1, 3) =	1	1	2	0	-2	30	-3	15	-15	5	-2	9	-3	-2
225(1, 4) =	1	1	-1	3	4	-30	12	0	0	-20	-2	-2	9	-12
225(1, 5) =	1	1	-1	-3	-8	30	0	-10	20	10	-8	-9	-3	1
225(1, 6) =	1	1	2	0	-2	0	-3	-5	-5	-5	-2	-11	-2	3
225(1, 7) =	1	1	-1	3	-11	15	-3	15	15	-5	-2	13	-6	3
225(1, 8) =	1	1	-1	-3	7	-15	0	0	0	20	7	-9	7	-23
225(1, 9) =	1	1	2	0	-2	-30	-3	-15	-15	-5	-2	-11	3	3
225(1,10) =	1	1	-1	3	4	-30	-3	5	5	-5	13	3	-6	-2
225(1,11) =	1	1	-1	-3	-8	30	0	10	-20	10	-8	1	-8	-1
225(1,12) =	1	1	2	0	13	15	12	0	0	-20	-2	4	3	3
225(1,13) =	1	1	-1	3	-11	-15	-3	-15	15	5	-2	3	4	-2
225(2, 4) =	1	1	-1	-3	7	-15	0	0	0	20	7	6	7	1
225(2, 5) =	1	1	2	0	-2	0	-3	5	-5	5	-2	4	-12	-2
225(2, 6) =	1	1	-1	3	-11	15	-3	-15	-15	-5	-2	-2	9	1
225(2, 7) =	1	1	-1	-3	-8	-30	0	-20	-10	-10	-8	6	7	13
225(2, 8) =	1	1	2	0	13	-15	12	0	0	20	-2	-6	-2	-2
225(2, 9) =	1	1	-1	3	4	30	12	0	0	20	-2	3	-11	13
225(2,10) =	1	1	-1	-3	-8	-30	0	20	10	-10	-8	1	-3	-6
225(2,11) =	1	1	2	0	-2	-30	-3	15	15	-5	-2	-11	-12	-13
225(2,12) =	1	1	-1	3	4	30	-3	-5	5	5	13	3	4	-13
225(3, 6) =	1	1	-1	-3	-5	-15	6	0	0	-10	-2	-3	-5	-1
225(3, 7) =	1	1	2	0	-2	30	-3	-15	15	5	-2	9	13	13
225(3, 8) =	1	1	-1	3	4	30	-3	5	-5	5	13	-2	9	-1
225(3, 9) =	1	1	-1	-3	-5	15	6	0	0	10	-2	7	0	
225(3,10) =	1	1	2	0	-2	0	-3	-5	5	5	-2	-6	13	
225(3,11) =	1	1	-1	3	-11	-15	-3	15	-15	5	-2	-12	-11	-1
225(4, 8) =	1	1	-1	-3	7	15	0	0	0	-20	7	16	-3	-1
225(4, 9) =	1	1	2	0	-2	0	-3	5	5	-5	-2	9	3	-1
225(4,10) =	1	1	-1	3	4	-30	-3	-5	-5	-5	13	-2	4	
225(5,10) =	1	1	-1	-3	12	0	0	0	0	0	12	6	-3	-1

TABLE 32 : IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 1 (

	P	1	A	D	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	36	0	36	0	0	0	0	9	-9	
225(0, 1) =	1	-14	2	0	-2	30	-3	5	35	25	-7	4	3	-3
225(0, 2) =	1	-14	-1	3	4	60	-3	35	-5	-25	23	-2	4	-7
225(0, 3) =	1	-14	-1	-3	-14	-30	-9	-5	35	5	-10	9	11	16
225(0, 4) =	1	-14	2	0	-2	30	-3	-5	-35	25	-7	-16	-2	
225(0, 5) =	1	-14	-1	3	24	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-14	30	-9	35	5	-5	-10	-11	-9	16
225(0, 7) =	1	-14	2	0	-2	-30	-3	35	-5	-25	-7	4	-17	-3
225(0, 8) =	1	-14	-1	3	4	60	-3	-35	5	-25	23	3	14	-13
225(0, 9) =	1	-14	-1	-3	-14	30	-9	-35	-5	-5	-10	-1	-14	
225(0,10) =	1	-14	2	0	-12	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	3	4	-60	-3	5	35	25	23	13	-6	-3
225(0,12) =	1	-14	-1	-3	-14	-30	-9	5	-35	5	-10	4	1	-16
225(0,13) =	1	-14	2	0	-2	-30	-3	-35	5	-25	-7	-6	23	13
225(0,14) =	1	-14	-1	3	4	-60	-3	-5	-35	25	23	-7	4	
225(1, 2) =	1	1	-1	-3	-1	15	0	0	0	-20	1	20	-1	-4
225(1, 3) =	1	1	2	0	8	0	-3	15	-15	5	-2	-1	9	
225(1, 4) =	1	1	-1	3	-16	30	12	0	0	-20	-2	8	-1	
225(1, 5) =	1	1	-1	-3	4	30	0	-10	20	10	-4	-5	9	
225(1, 6) =	1	1	2	0	-2	-60	-3	-5	-5	-5	8	-1	-2	
225(1, 7) =	1	1	-1	3	-1	-15	-3	15	15	-5	-2	-7	14	-3
225(1, 8) =	1	1	-1	-3	-1	-15	0	0	0	20	1	5	-1	13
225(1, 9) =	1	1	2	0	8	0	-3	-15	-15	-5	-2	-1	-7	-3
225(1,10) =	1	1	-1	3	4	30	-3	5	5	-5	-7	-17	-6	-2
225(1,11) =	1	1	-1	-3	4	30	0	10	-20	10	-4	5	4	-9
225(1,12) =	1	1	2	0	-7	-45	12	0	0	-20	-2	-16	-7	-3
225(1,13) =	1	1	-1	3	-1	15	-3	-15	15	5	-2	-7	-16	
225(2, 4) =	1	1	-1	-3	-1	-15	0	0	0	20	1	-10	-1	-19
225(2, 5) =	1	1	2	0	-2	60	-3	5	-5	5	8	4	-2	
225(2, 6) =	1	1	-1	3	-1	-15	-3	-15	-15	-5	-2	8	-1	-3
225(2, 7) =	1	1	-1	-3	4	-30	0	-20	-10	-10	-4	0	-1	16
225(2, 8) =	1	1	2	0	-7	45	12	0	0	20	-2	14	8	
225(2, 9) =	1	1	-1	3	-16	-30	12	0	0	20	-2	-7	-1	-7
225(2,10) =	1	1	-1	-3	4	-30	0	20	10	-10	-4	-5	-11	-4
225(2,11) =	1	1	2	0	9	0	-3	15	15	-5	-2	-1	8	
225(2,12) =	1	1	-1	3	4	-30	-3	-5	5	5	-7	3	-16	-3
225(3, 6) =	1	1	-1	-3	11	-15	6	0	0	-10	10	-1	11	-16
225(3, 7) =	1	1	2	0	8	0	-3	-15	15	5	-2	-1	-7	-3
225(3, 8) =	1	1	-1	3	4	-30	-3	5	-5	5	-7	-2	19	
225(3, 9) =	1	1	-1	-3	11	15	6	0	0	10	10	-1	-4	5
225(3,10) =	1	1	2	0	-2	60	-3	-5	5	5	8	-6	-7	-19
225(3,11) =	1	1	-1	3	-1	15	-3	15	-15	5	-2	8	-1	
225(4, 8) =	1	1	-1	-3	-1	15	0	0	0	-20	1	-10	-1	1
225(4, 9) =	1	1	2	0	-2	-60	-3	5	5	-5	8	19	3	-3
225(4,10) =	1	1	-1	3	4	30	-3	-5	-5	-5	-7	8	4	
225(5,10) =	1	1	-1	-3	-36	0	0	0	0	0	36	0	9	-9

TABLE 33 : IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 2 ((

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-60	0	36	0	0	0	48	15	-3	-1
225(0, 1) =	1	-14	2	0	4	-60	-3	5	35	25	-17	24	3	-2
225(0, 2) =	1	-14	-1	3	-2	-90	-3	35	-5	-25	13	-2	24	1
225(0, 3) =	1	-14	-1	-3	10	30	-9	-5	35	5	-2	15	7	1
225(0, 4) =	1	-14	2	0	4	-60	-3	-5	-35	25	-17	-26	-2	
225(0, 5) =	1	-14	-1	3	-12	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	10	-30	-9	35	5	-5	-2	-15	-3	-2
225(0, 7) =	1	-14	2	0	4	60	-3	35	-5	-25	-17	4	-27	1
225(0, 8) =	1	-14	-1	3	-2	-90	-3	-35	5	-25	13	3	4	-2
225(0, 9) =	1	-14	-1	-3	10	-30	-9	-35	-5	-5	-2	-5	-8	-1
225(0,10) =	1	-14	2	0	24	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	90	-3	5	35	25	13	3	-6	-2
225(0,12) =	1	-14	-1	-3	10	30	-9	5	-35	5	-2	10	-3	-2
225(0,13) =	1	-14	2	0	4	60	-3	-35	5	-25	-17	-6	13	
225(0,14) =	1	-14	-1	3	-2	90	-3	-5	-35	25	13	-17	4	
225(1, 2) =	1	1	-1	-3	7	-15	0	0	0	-20	7	7	-9	-2
225(1, 3) =	1	1	2	0	-11	15	-3	15	-15	5	-2	9	13	-2
225(1, 4) =	1	1	-1	3	13	-15	12	0	0	-20	-2	-2	-6	
225(1, 5) =	1	1	-1	-3	-8	-30	0	-10	20	10	-8	-3	6	
225(1, 6) =	1	1	2	0	4	30	-3	-5	-5	-5	13	4	-2	
225(1, 7) =	1	1	-1	3	-2	30	-3	15	15	-5	-2	-2	9	-1
225(1, 8) =	1	1	-1	-3	7	15	0	0	0	20	7	-3	16	
225(1, 9) =	1	1	2	0	-11	-15	-3	-15	-15	-5	-2	4	-12	
225(1,10) =	1	1	-1	3	-2	0	-3	5	5	-5	-2	-12	-6	-2
225(1,11) =	1	1	-1	-3	-8	-30	0	10	-20	10	-8	7	1	-2
225(1,12) =	1	1	2	0	4	30	12	0	0	-20	-2	-11	3	-1
225(1,13) =	1	1	-1	3	-2	-30	-3	-15	15	5	-2	-12	-11	1
225(2, 4) =	1	1	-1	-3	7	15	0	0	0	20	7	-3	-14	-2
225(2, 5) =	1	1	2	0	4	-30	-3	5	-5	5	13	4	3	-2
225(2, 6) =	1	1	-1	3	-2	30	-3	-15	-15	-5	-2	13	9	
225(2, 7) =	1	1	-1	-3	-8	30	0	-20	-10	-10	-8	-3	1	1
225(2, 8) =	1	1	2	0	4	-30	12	0	0	20	-2	9	-2	1
225(2, 9) =	1	1	-1	3	13	15	12	0	0	20	-2	3	4	-2
225(2,10) =	1	1	-1	-3	-8	30	0	20	10	-10	-8	-8	-9	-6
225(2,11) =	1	1	2	0	-11	-15	-3	15	15	-5	-2	-11	3	
225(2,12) =	1	1	-1	3	-2	0	-3	-5	5	5	-2	3	-11	
225(3, 6) =	1	1	-1	-3	-5	15	6	0	0	-10	-2	0	7	-2
225(3, 7) =	1	1	2	0	-11	15	-3	-15	15	5	-2	-6	-2	-2
225(3, 8) =	1	1	-1	3	-2	0	-3	5	-5	5	-2	-2	9	-2
225(3, 9) =	1	1	-1	-3	-5	-15	6	0	0	10	-2	-5	-3	
225(3,10) =	1	1	2	0	4	-30	-3	-5	5	5	13	-6	-2	-1
225(3,11) =	1	1	-1	3	-2	-30	-3	15	-15	5	-2	3	-11	-2
225(4, 8) =	1	1	-1	-3	7	-15	0	0	0	-20	7	7	6	1
225(4, 9) =	1	1	2	0	4	30	-3	5	5	-5	13	9	3	-2
225(4,10) =	1	1	-1	3	-2	0	-3	-5	-5	-5	-2	13	4	
225(5,10) =	1	1	-1	-3	12	0	0	0	0	0	12	-3	6	-2

TABLE 34: IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 2 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	36	0	36	0	0	0	0	-9	9	
225(0, 1) =	1	-14	2	0	4	60	-3	5	35	25	23	4	3	-2
225(0, 2) =	1	-14	-1	3	-2	30	-3	35	-5	-25	-7	-2	4	-3
225(0, 3) =	1	-14	-1	-3	-14	30	-9	-5	35	5	-10	-9	-1	1
225(0, 4) =	1	-14	2	0	4	60	-3	-5	-35	25	23	14	-2	
225(0, 5) =	1	-14	-1	3	-12	0	12	0	0	0	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-14	-30	-9	35	5	-5	-10	1	9	1
225(0, 7) =	1	-14	2	0	4	-60	-3	35	-5	-25	23	4	13	-2
225(0, 8) =	1	-14	-1	3	-2	30	-3	-35	5	-25	-7	3	-16	1
225(0, 9) =	1	-14	-1	-3	-14	-30	-9	-35	-5	-5	-10	11	4	
225(0,10) =	1	-14	2	0	24	0	12	0	0	0	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	-30	-3	5	35	25	-7	-17	-6	-2
225(0,12) =	1	-14	-1	-3	-14	30	-9	5	-35	5	-10	-14	-11	-1
225(0,13) =	1	-14	2	0	4	-60	-3	-35	5	-25	23	-6	-7	-1
225(0,14) =	1	-14	-1	3	-2	-30	-3	-5	-35	25	-7	23	4	
225(1, 2) =	1	1	-1	-3	-1	-15	0	0	0	-20	1	-1	5	1
225(1, 3) =	1	1	2	0	-1	-15	-3	15	-15	5	-2	-1	-7	
225(1, 4) =	1	1	-1	3	-7	45	12	0	0	-20	-2	8	14	-1
225(1, 5) =	1	1	-1	-3	4	-30	0	-10	20	10	-4	-11	0	
225(1, 6) =	1	1	2	0	4	-30	-3	-5	-5	-5	-7	-16	-2	
225(1, 7) =	1	1	-1	3	8	0	-3	15	15	-5	-2	8	-1	
225(1, 8) =	1	1	-1	-3	-1	15	0	0	0	20	1	-1	-10	-1
225(1, 9) =	1	1	2	0	-1	15	-3	-15	-15	-5	-2	-16	8	-1
225(1,10) =	1	1	-1	3	-2	60	-3	5	5	-5	8	-2	-6	-2
225(1,11) =	1	1	-1	-3	4	-30	0	10	-20	10	-4	-1	-5	-1
225(1,12) =	1	1	2	0	-16	-30	12	0	0	-20	-2	-1	-7	
225(1,13) =	1	1	-1	3	8	0	-3	-15	15	5	-2	8	-1	-1
225(2, 4) =	1	1	-1	-3	-1	15	0	0	0	20	1	-1	20	1
225(2, 5) =	1	1	2	0	4	30	-3	5	-5	5	-7	4	-17	
225(2, 6) =	1	1	-1	3	8	0	-3	-15	-15	-5	-2	-7	-1	-1
225(2, 7) =	1	1	-1	-3	4	30	0	-20	-10	-10	-4	9	5	1
225(2, 8) =	1	1	2	0	-16	30	12	0	0	20	-2	-1	8	-1
225(2, 9) =	1	1	-1	3	-7	-45	12	0	0	20	-2	-7	-16	
225(2,10) =	1	1	-1	-3	4	30	0	20	10	-10	-4	4	-5	-4
225(2,11) =	1	1	2	0	-1	15	-3	15	15	-5	-2	-1	-7	-1
225(2,12) =	1	1	-1	3	-2	-60	-3	-5	5	5	8	3	-1	-1
225(3, 6) =	1	1	-1	-3	11	15	6	0	0	-10	10	-4	-1	-1
225(3, 7) =	1	1	2	0	-1	-15	-3	-15	15	5	-2	14	8	
225(3, 8) =	1	1	-1	3	-2	-60	-3	5	-5	5	8	-2	19	
225(3, 9) =	1	1	-1	-3	11	-15	6	0	0	10	10	11	-1	
225(3,10) =	1	1	2	0	4	30	-3	-5	5	5	-7	-6	8	-1
225(3,11) =	1	1	-1	3	8	0	-3	15	-15	5	-2	-7	-1	
225(4, 8) =	1	1	-1	-3	-1	-15	0	0	0	-20	1	-1	-10	-1
225(4, 9) =	1	1	2	0	4	-30	-3	5	5	-5	-7	19	3	-1
225(4,10) =	1	1	-1	3	-2	60	-3	-5	-5	-5	8	-7	4	
225(5,10) =	1	1	-1	-3	-36	0	0	0	0	0	36	9	0	-1

TABLE 35: IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 0 (M

	P	1	A	F	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	36	0	6	30	30	30	36	-3	-3	6
225(0, 1) =	1	-14	2	0	-2	90	-3	25	-5	5	13	14	3	-22
225(0, 2) =	1	-14	-1	3	-2	30	-13	5	5	-15	3	8	24	3
225(0, 3) =	1	-14	-1	-3	-4	0	-9	-5	-25	-15	6	7	7	26
225(0, 4) =	1	-14	2	0	-12	0	7	5	-5	-5	-17	-6	-2	13
225(0, 5) =	1	-14	-1	3	-12	0	12	0	0	0	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	16	0	-9	-5	25	-25	-14	-13	-3	-4
225(0, 7) =	1	-14	2	0	-2	-30	-13	5	5	-15	3	-16	3	3
225(0, 8) =	1	-14	-1	3	8	60	-3	-35	5	15	3	13	-26	-3
225(0, 9) =	1	-14	-1	-3	-24	0	1	-25	-35	25	-14	-3	-8	-14
225(0,10) =	1	-14	2	0	-12	0	12	0	0	0	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	-90	-3	25	-5	5	13	-7	-6	-22
225(0,12) =	1	-14	-1	-3	16	0	11	5	5	-15	6	2	-3	6
225(0,13) =	1	-14	2	0	8	-60	-3	-35	5	15	3	4	13	-3
225(0,14) =	1	-14	-1	3	-12	0	7	5	-5	-5	-17	3	4	13
225(1, 2) =	1	1	-1	-3	-12	0	0	-10	0	-10	8	-4	-9	1
225(1, 3) =	1	1	2	0	-2	-60	2	-10	10	-10	3	14	-2	-1
225(1, 4) =	1	1	-1	3	3	-45	-3	5	15	5	-7	-7	9	-1
225(1, 5) =	1	1	-1	-3	-2	0	0	10	10	20	-2	-4	6	1
225(1, 6) =	1	1	2	0	3	45	-8	-10	-20	10	13	-6	-2	-1
225(1, 7) =	1	1	-1	3	3	-45	-3	5	-15	-25	-7	8	-6	1
225(1, 8) =	1	1	-1	-3	-2	0	5	5	-5	5	3	11	16	-1
225(1, 9) =	1	1	2	0	3	-45	12	-10	0	-10	8	-16	3	-1
225(1,10) =	1	1	-1	3	-2	0	-3	-5	25	5	-2	-7	-6	
225(1,11) =	1	1	-1	-3	18	0	-5	5	-5	-5	-2	6	1	-1
225(1,12) =	1	1	2	0	3	45	-3	5	15	5	-7	-1	-12	-1
225(1,13) =	1	1	-1	3	13	15	2	-10	-20	20	-12	-7	4	
225(2, 4) =	1	1	-1	-3	-2	0	5	5	-5	5	3	-19	-14	-1
225(2, 5) =	1	1	2	0	-2	-30	2	20	-10	0	3	14	-12	
225(2, 6) =	1	1	-1	3	3	45	12	-10	0	-10	8	8	9	-1
225(2, 7) =	1	1	-1	-3	8	0	0	-20	20	0	-12	1	1	
225(2, 8) =	1	1	2	0	-3	30	2	20	10	20	3	-1	13	
225(2, 9) =	1	1	-1	3	-2	-30	2	20	10	20	3	8	-11	
225(2,10) =	1	1	-1	-3	-2	0	-10	20	-10	0	-12	-4	-9	-1
225(2,11) =	1	1	2	0	3	45	-3	5	-15	-25	-7	-1	3	
225(2,12) =	1	1	-1	3	-7	15	-3	-5	5	-15	3	-2	4	-1
225(3, 6) =	1	1	-1	-3	-14	0	-4	-10	10	20	6	2	7	-1
225(3, 7) =	1	1	2	0	13	-15	2	-10	-20	20	-12	-1	-2	
225(3, 8) =	1	1	-1	3	-2	30	2	20	-10	0	3	-7	9	
225(3, 9) =	1	1	-1	-3	6	0	6	20	0	-10	-4	2	-3	-1
225(3,10) =	1	1	2	0	-7	-15	-3	-5	5	-15	3	-11	-2	-1
225(3,11) =	1	1	-1	3	-2	60	2	-10	10	-10	3	-7	-11	-1
225(4, 8) =	1	1	-1	-3	-12	0	0	-10	0	-10	8	11	6	
225(4, 9) =	1	1	2	0	-2	0	-3	-5	25	5	-2	14	3	
225(4,10) =	1	1	-1	3	3	-45	-8	-10	-20	10	13	3	4	-1
225(5,10) =	1	1	-1	-3	18	0	15	-15	-15	-15	18	6	6	-1

TABLE 36: IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 0 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	12	0	6	30	30	30	12	9	9	-18
225(0, 1) =	1	-14	2	0	-2	-30	-3	25	-5	5	-7	14	3	18
225(0, 2) =	1	-14	-1	3	-2	30	-13	5	5	-15	3	-12	4	3
225(0, 3) =	1	-14	-1	-3	12	0	-9	-5	-25	-15	-18	-1	-1	2
225(0, 4) =	1	-14	2	0	8	60	7	5	-5	-5	23	-6	-2	-7
225(0, 5) =	1	-14	-1	3	-12	0	12	0	0	0	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-8	0	-9	-5	25	-25	2	-1	9	12
225(0, 7) =	1	-14	2	0	-2	-30	-13	5	5	-15	3	24	-17	3
225(0, 8) =	1	-14	-1	3	-12	0	-3	-35	5	15	3	-7	14	-7
225(0, 9) =	1	-14	-1	-3	32	0	1	-25	-35	25	2	9	4	2
225(0,10) =	1	-14	2	0	-12	0	12	0	0	0	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	30	-3	25	-5	5	-7	-7	-6	18
225(0,12) =	1	-14	-1	-3	-8	0	11	5	5	-15	-18	-6	-11	-18
225(0,13) =	1	-14	2	0	-12	0	-3	-35	5	15	3	-16	-7	-7
225(0,14) =	1	-14	-1	3	8	-60	7	5	-5	-5	23	3	4	-7
225(1, 2) =	1	1	-1	-3	0	0	0	-10	0	-10	0	10	5	0
225(1, 3) =	1	1	2	0	8	30	2	-10	10	-10	-7	-6	8	13
225(1, 4) =	1	1	-1	3	3	15	-3	5	15	5	3	13	-1	3
225(1, 5) =	1	1	-1	-3	10	0	0	10	10	20	-10	-10	0	0
225(1, 6) =	1	1	2	0	-7	15	-8	-10	-20	10	-7	-6	-2	8
225(1, 7) =	1	1	-1	3	3	15	-3	5	-15	-25	3	-2	14	-12
225(1, 8) =	1	1	-1	-3	-10	0	5	5	-5	5	5	-15	-10	-5
225(1, 9) =	1	1	2	0	3	75	12	-10	0	-10	-12	4	-7	3
225(1,10) =	1	1	-1	3	-2	-60	-3	-5	25	5	8	-7	-6	-12
225(1,11) =	1	1	-1	-3	-10	0	-5	5	-5	-5	-10	0	-5	-10
225(1,12) =	1	1	2	0	3	-15	-3	5	15	5	3	-11	8	3
225(1,13) =	1	1	-1	3	-7	15	2	-10	-20	20	8	3	-16	-2
225(2, 4) =	1	1	-1	-3	-10	0	5	5	-5	5	5	15	20	-5
225(2, 5) =	1	1	2	0	-2	-30	2	20	-10	0	3	-6	-2	3
225(2, 6) =	1	1	-1	3	3	-75	12	-10	0	-10	-12	-2	-1	3
225(2, 7) =	1	1	-1	-3	0	0	0	-20	20	0	0	5	5	20
225(2, 8) =	1	1	2	0	3	-60	2	20	10	20	-7	9	-7	-2
225(2, 9) =	1	1	-1	3	3	60	2	20	10	20	-7	-12	-1	-2
225(2,10) =	1	1	-1	-3	10	0	-10	20	-10	0	0	0	-5	0
225(2,11) =	1	1	2	0	3	-15	-3	5	-15	-25	3	-11	-7	-12
225(2,12) =	1	1	-1	3	3	45	-3	-5	5	-15	3	8	-16	-7
225(3, 6) =	1	1	-1	-3	2	0	-4	-10	10	20	2	-6	-1	-8
225(3, 7) =	1	1	2	0	-7	-15	2	-10	-20	20	8	9	8	-2
225(3, 8) =	1	1	-1	3	-2	30	2	20	-10	0	3	3	19	3
225(3, 9) =	1	1	-1	-3	-18	0	6	20	0	-10	12	4	-1	12
225(3,10) =	1	1	2	0	3	-45	-3	-5	5	-15	3	-1	8	-7
225(3,11) =	1	1	-1	3	8	-30	2	-10	10	-10	-7	3	-1	13
225(4, 8) =	1	1	-1	-3	0	0	0	-10	0	-10	0	-5	-10	0
225(4, 9) =	1	1	2	0	-2	60	-3	-5	25	5	8	14	3	-12
225(4,10) =	1	1	-1	3	-7	-15	-8	-10	-20	10	-7	3	4	8
225(5,10) =	1	1	-1	-3	30	0	15	-15	-15	-15	30	0	0	0

TABLE 37 : IND 2 = 1 (MOD 3), IND 3 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 1 (MO

	F	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	0	0	6	30	30	30	18	-3	15	-12
225(0, 1) =	1	-14	2	0	-2	30	-3	25	-5	5	-17	14	3	8
225(0, 2) =	1	-14	-1	3	4	0	-13	5	5	-15	3	-22	-6	3
225(0, 3) =	1	-14	-1	-3	-10	-30	-9	-5	-25	-15	-12	7	-5	8
225(0, 4) =	1	-14	2	0	-12	-60	7	5	-5	-5	13	-6	-2	-17
225(0, 5) =	1	-14	-1	3	24	0	12	0	0	0	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	10	30	-9	-5	25	-25	-2	-13	15	8
225(0, 7) =	1	-14	2	0	-2	30	-13	5	5	-15	3	14	-27	3
225(0, 8) =	1	-14	-1	3	14	30	-3	-35	5	15	3	13	4	-7
225(0, 9) =	1	-14	-1	-3	-30	30	1	-25	-35	25	-2	-3	10	-2
225(0,10) =	1	-14	2	0	-12	0	12	0	0	0	-12	-6	3	3
225(0,11) =	1	-14	-1	3	4	-60	-3	25	-5	5	13	-7	-6	8
225(0,12) =	1	-14	-1	-3	10	-30	11	5	5	-15	-12	2	-15	-12
225(0,13) =	1	-14	2	0	-	0	-3	-35	5	15	3	4	13	-7
225(0,14) =	1	-14	-1	3	-5	30	7	5	-5	-5	13	3	4	13
225(1, 2) =	1	1	-1	-3	-3	15	0	-10	0	-10	17	11	-3	-13
225(1, 3) =	1	1	2	0	-2	-30	2	-10	10	-10	-12	-1	13	8
225(1, 4) =	1	1	-1	3	-6	-30	-3	5	15	5	8	8	9	8
225(1, 5) =	1	1	1	-3	-8	30	0	10	10	20	-8	-4	-3	2
225(1, 6) =	1	1	2	0	3	-15	-8	-10	-20	10	-2	-6	-2	13
225(1, 7) =	1	1	-1	3	-6	-30	-3	5	-15	-25	-7	8	9	-7
225(1, 8) =	1	1	-1	-3	7	-15	5	5	-5	5	12	-19	7	-13
225(1, 9) =	1	1	2	0	3	-75	12	-10	0	-10	-7	-1	-12	8
225(1,10) =	1	1	-1	3	4	30	-3	-5	25	5	-2	-7	-6	-7
225(1,11) =	1	1	-1	-3	12	30	-5	5	-5	-5	-8	6	-8	-8
225(1,12) =	1	1	2	0	3	15	-3	5	15	5	-7	-16	3	-7
225(1,13) =	1	1	-1	3	4	0	2	-10	-20	20	3	-7	-11	8
225(2, 4) =	1	1	-1	-3	7	-15	5	5	-5	5	-3	11	7	2
225(2, 5) =	1	1	2	0	-2	30	2	20	-10	0	3	-1	3	3
225(2, 6) =	1	1	-1	3	-6	60	12	-10	0	-10	-7	-7	-6	-7
225(2, 7) =	1	1	-1	-3	2	-30	0	-20	20	0	-3	1	7	17
225(2, 8) =	1	1	2	0	-2	60	2	20	10	20	3	14	-2	8
225(2, 9) =	1	1	-1	3	-11	-45	2	20	10	20	-12	-7	-11	-2
225(2,10) =	1	1	-1	-3	-8	-30	-10	20	-10	0	-3	-4	-3	-3
225(2,11) =	1	1	2	0	3	15	-3	5	-15	-25	8	-1	3	-2
225(2,12) =	1	1	-1	3	-1	-15	-3	-5	5	-15	3	-2	-11	-2
225(3, 6) =	1	1	-1	-3	-5	-15	-4	-10	10	20	3	2	-5	-2
225(3, 7) =	1	1	2	0	13	15	2	-10	-20	20	3	-1	-2	-2
225(3, 8) =	1	1	-1	3	4	0	2	20	-10	0	3	8	24	3
225(3, 9) =	1	1	-1	-3	15	15	6	20	0	-10	8	2	0	8
225(3,10) =	1	1	2	0	-7	45	-3	-5	5	-15	3	-11	-2	-2
225(3,11) =	1	1	-1	3	-11	45	2	-10	10	-10	3	3	4	8
225(4, 8) =	1	1	-1	-3	-3	15	0	-10	0	-10	-13	-4	-3	13
225(4, 9) =	1	1	2	0	-2	-60	-3	-5	25	5	13	14	3	-2
225(4,10) =	1	1	-1	3	9	-15	-8	-10	-20	10	-2	3	4	-2
225(5,10) =	1	1	-1	-3	-18	0	15	-15	-15	-15	27	6	-3	-2

TABLE 38 : IND 2 = 1 (MOD 3), IND 3 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-24	0	6	30	30	30	30	9	-9	0
225(0, 1) =	1	-14	2	0	-2	-90	-3	25	-5	5	23	14	3	-12
225(0, 2) =	1	-14	-1	3	4	0	-13	5	5	-15	3	18	34	3
225(0, 3) =	1	-14	-1	-3	6	-30	-9	-5	-25	-15	0	-1	11	20
225(0, 4) =	1	-14	2	0	8	0	7	5	-5	-5	-7	-6	-2	23
225(0, 5) =	1	-14	-1	3	24	0	12	0	0	0	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-14	30	-9	-5	25	-25	-10	-1	-9	0
225(0, 7) =	1	-14	2	0	-2	30	-13	5	5	-15	3	-6	13	3
225(0, 8) =	1	-14	-1	3	-6	-30	-3	-35	5	15	3	-7	-16	-7
225(0, 9) =	1	-14	-1	-3	26	30	1	-25	-35	25	-10	9	-14	-10
225(0,10) =	1	-14	2	0	-12	0	12	0	0	0	-12	-6	3	3
225(0,11) =	1	-14	-1	3	4	60	-3	25	-5	5	-7	-7	-6	-12
225(0,12) =	1	-14	-1	-3	-14	-30	11	5	5	-15	0	-6	1	0
225(0,13) =	1	-14	2	0	-12	60	-3	-35	5	15	3	-16	-7	-7
225(0,14) =	1	-14	-1	3	14	-30	7	5	-5	-5	-7	3	4	-7
225(1, 2) =	1	1	-1	-3	9	15	0	-10	0	-10	-9	-5	-1	21
225(1, 3) =	1	1	2	0	8	60	2	-10	10	-10	8	9	-7	-2
225(1, 4) =	1	1	-1	3	-6	30	-3	5	15	5	-12	-2	-1	-12
225(1, 5) =	1	1	-1	-3	4	30	0	10	10	20	-4	-10	9	6
225(1, 6) =	1	1	2	0	-7	-45	-8	-10	-20	10	8	-6	-2	-7
225(1, 7) =	1	1	-1	3	-6	30	-3	5	-15	-25	3	-2	-1	3
225(1, 8) =	1	1	-1	-3	-1	-15	5	5	-5	5	-4	15	-1	1
225(1, 9) =	1	1	2	0	3	45	12	-10	0	-10	3	-11	3	-12
225(1,10) =	1	1	-1	3	4	-30	-3	-5	25	5	8	-7	-6	3
225(1,11) =	1	1	-1	-3	-16	30	-5	5	-5	-5	-4	0	4	-4
225(1,12) =	1	1	2	0	3	-45	-3	5	15	5	3	4	-7	3
225(1,13) =	1	1	-1	3	-16	0	2	-10	-20	20	-7	3	-1	-2
225(2, 4) =	1	1	-1	-3	-1	-15	5	5	-5	5	11	-15	-1	-14
225(2, 5) =	1	1	2	0	-2	30	2	20	-10	0	3	9	-17	3
225(2, 6) =	1	1	-1	3	-6	-60	12	-10	0	-10	3	13	14	3
225(2, 7) =	1	1	-1	-3	-6	-30	0	-20	20	0	-9	5	-1	11
225(2, 8) =	1	1	2	0	8	-30	2	20	10	20	-7	-6	8	-2
225(2, 9) =	1	1	-1	3	-1	45	2	20	10	20	8	3	-1	13
225(2,10) =	1	1	-1	-3	4	-30	-10	20	-10	0	-9	0	-11	-9
225(2,11) =	1	1	2	0	3	-45	-3	5	-15	-25	-12	-11	-7	3
225(2,12) =	1	1	-1	3	9	15	-3	-5	5	-15	3	8	-1	-7
225(3, 6) =	1	1	-1	-3	11	-15	-4	-10	10	20	5	-6	11	-9
225(3, 7) =	1	1	2	0	-7	15	2	-10	-20	20	-7	9	8	13
225(3, 8) =	1	1	-1	3	4	0	2	20	-10	0	3	-12	4	3
225(3, 9) =	1	1	-1	-3	-9	15	6	20	0	-10	0	4	-4	0
225(3,10) =	1	1	2	0	3	15	-3	-5	5	-15	3	-1	8	-7
225(3,11) =	1	1	-1	3	-1	-45	2	-10	10	-10	-7	-12	-16	-3
225(4, 8) =	1	1	-1	-3	9	15	0	-10	0	-10	21	10	-1	-9
225(4, 9) =	1	1	2	0	-2	0	-3	-5	25	5	-7	14	3	3
225(4,10) =	1	1	-1	3	-1	15	-8	-10	-20	10	8	3	4	8
225(5,10) =	1	1	-1	-3	-6	0	15	-15	-15	-15	21	0	9	-9

TABLE 39 : IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 2 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	0	0	6	30	30	30	18	15	-3	-12
225(0, 1) =	1	-14	2	0	4	60	-3	25	-5	5	13	14	3	8
225(0, 2) =	1	-14	-1	3	-2	-30	-13	5	5	-15	3	8	24	3
225(0, 3) =	1	-14	-1	-3	-10	30	-9	-5	-25	-15	-12	-5	7	8
225(0, 4) =	1	-14	2	0	-6	-30	7	5	-5	-5	13	-6	-2	13
225(0, 5) =	1	-14	-1	3	-12	0	12	0	0	0	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	10	-30	-9	-5	25	-25	-2	5	-3	8
225(0, 7) =	1	-14	2	0	4	0	-13	5	5	-15	3	14	3	3
225(0, 8) =	1	-14	-1	3	8	0	-3	-35	5	15	3	-17	4	-7
225(0, 9) =	1	-14	-1	-3	-30	-30	1	-25	-35	25	-2	15	-8	-2
225(0,10) =	1	-14	2	0	24	0	12	0	0	0	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	-30	-3	25	-5	5	-17	-7	-6	8
225(0,12) =	1	-14	-1	-3	10	30	11	5	5	-15	-12	-10	-3	-12
225(0,13) =	1	-14	2	0	14	-30	-3	-35	5	15	3	-26	-17	-7
225(0,14) =	1	-14	-1	3	-12	60	7	5	-5	-5	13	3	4	-17
225(1, 2) =	1	1	-1	-3	-3	-15	0	-10	0	-10	-13	2	6	17
225(1, 3) =	1	1	2	0	-11	-45	2	-10	10	-10	3	-1	-2	8
225(1, 4) =	1	1	-1	3	3	-15	-3	5	15	5	-7	8	-6	-7
225(1, 5) =	1	1	-1	-3	-8	-30	0	10	10	20	-8	-13	6	2
225(1, 6) =	1	1	2	0	9	15	-8	-10	-20	10	-2	-6	-2	-3
225(1, 7) =	1	1	-1	3	3	-15	-3	5	-15	-25	8	-7	9	-7
225(1, 8) =	1	1	-1	-3	7	15	5	5	-5	5	-3	2	-14	2
225(1, 9) =	1	1	2	0	-6	-60	12	-10	0	-10	-7	-1	3	-7
225(1,10) =	1	1	-1	3	-2	60	-3	-5	25	5	13	-7	-6	-7
225(1,11) =	1	1	-1	-3	12	-30	-5	5	-5	-5	-8	-3	1	-8
225(1,12) =	1	1	2	0	-6	30	-3	5	15	5	8	-1	3	8
225(1,13) =	1	1	-1	3	13	-15	2	-10	-20	20	3	8	-11	-7
225(2, 4) =	1	1	-1	-3	7	15	5	5	-5	5	12	2	16	-13
225(2, 5) =	1	1	2	0	4	0	2	20	-10	0	3	-1	-12	3
225(2, 6) =	1	1	-1	3	3	75	12	-10	0	-10	-7	8	9	8
225(2, 7) =	1	1	-1	-3	2	30	0	-20	20	0	-3	7	1	12
225(2, 8) =	1	1	2	0	-11	45	2	20	10	20	-12	-1	-2	-7
225(2, 9) =	1	1	-1	3	-2	-60	2	20	10	20	3	-7	4	8
225(2,10) =	1	1	-1	-3	-8	30	-10	20	-10	0	-3	2	-9	-3
225(2,11) =	1	1	2	0	-6	30	-3	5	-15	-25	-7	-16	-12	-7
225(2,12) =	1	1	-1	3	-7	-45	-3	-5	5	-15	3	13	-11	-7
225(3, 6) =	1	1	-1	-3	-5	15	-4	-10	10	20	3	-10	7	-2
225(3, 7) =	1	1	2	0	4	0	2	-10	-20	20	3	14	13	8
225(3, 8) =	1	1	-1	3	-2	-30	2	20	-10	0	3	-7	9	3
225(3, 9) =	1	1	-1	-3	15	-15	6	20	0	-10	8	5	-3	8
225(3,10) =	1	1	2	0	-1	15	-3	-5	5	-15	3	4	13	-7
225(3,11) =	1	1	-1	3	-2	30	2	-10	10	-10	-12	-7	-11	8
225(4, 8) =	1	1	-1	-3	-3	-15	0	-10	0	-10	17	2	-9	-13
225(4, 9) =	1	1	2	0	4	-30	-3	-5	25	5	-2	14	3	-3
225(4,10) =	1	1	-1	3	3	15	-8	-10	-20	10	-2	3	4	13
225(5,10) =	1	1	-1	-3	-18	0	15	-15	-15	-15	27	-3	6	-3

TABLE 40 : IND 2 = 1 (MOD 3), IND 2 = 0 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 2 (M

	P	1	A	B	C	D	X	L	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-24	0	6	30	30	30	30	-9	9	0
225(0, 1) =	1	-14	2	0	4	-60	-3	25	-5	5	-7	14	3	-12
225(0, 2) =	1	-14	-1	3	-2	-30	-13	5	5	-15	3	-12	4	3
225(0, 3) =	1	-14	-1	-3	6	30	-9	-5	-25	-15	0	11	-1	20
225(0, 4) =	1	-14	2	0	14	30	7	5	-5	-5	-7	-6	-2	-7
225(0, 5) =	1	-14	-1	3	-12	0	12	0	0	0	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-14	-30	-9	-5	25	-25	-10	-19	9	0
225(0, 7) =	1	-14	2	0	4	0	-13	5	5	-15	3	-6	-17	3
225(0, 8) =	1	-14	-1	3	-12	-60	-3	-35	5	15	3	23	-16	-7
225(0, 9) =	1	-14	-1	-3	26	-30	1	-25	-35	25	-10	-9	4	-10
225(0,10) =	1	-14	2	0	24	0	12	0	0	0	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	90	-3	25	-5	5	23	-7	-6	-12
225(0,12) =	1	-14	-1	-3	-14	30	11	5	5	-15	0	6	-11	0
225(0,13) =	1	-14	2	0	-6	30	-3	-35	5	15	3	14	23	-7
225(0,14) =	1	-14	-1	3	8	0	7	5	-5	-5	-7	3	4	23
225(1, 2) =	1	1	-1	-3	9	-15	0	-10	0	-10	21	4	-10	-9
225(1, 3) =	1	1	2	0	-1	45	2	-10	10	-10	-7	9	8	-2
225(1, 4) =	1	1	-1	3	3	45	-3	5	15	5	3	-2	14	3
225(1, 5) =	1	1	-1	-3	4	-30	0	10	10	20	-4	-1	0	6
225(1, 6) =	1	1	2	0	-1	-15	-8	-10	-20	10	8	-6	-2	8
225(1, 7) =	1	1	-1	3	3	45	-3	5	-15	-25	-12	13	-1	3
225(1, 8) =	1	1	-1	-3	-1	15	5	5	-5	5	11	-6	20	-14
225(1, 9) =	1	1	2	0	-6	60	12	-10	0	-10	3	-11	-7	3
225(1,10) =	1	1	-1	3	-2	0	-3	-5	25	5	-7	-7	-6	3
225(1,11) =	1	1	-1	-3	-16	-30	-5	5	-5	-5	-4	9	-5	-4
225(1,12) =	1	1	2	0	-6	-30	-3	5	15	5	-12	-11	-7	-12
225(1,13) =	1	1	-1	3	-7	-15	2	-10	-20	20	-7	-12	-1	13
225(2, 4) =	1	1	-1	-3	-1	15	5	5	-5	5	-4	-6	-10	1
225(2, 5) =	1	1	2	0	4	0	2	20	-10	0	3	9	-2	3
225(2, 6) =	1	1	-1	3	3	-45	12	-10	0	-10	3	-2	-1	-12
225(2, 7) =	1	1	-1	-3	-6	30	0	-20	20	0	-9	-1	5	11
225(2, 8) =	1	1	2	0	-1	-45	2	20	10	20	8	9	8	13
225(2, 9) =	1	1	-1	3	8	30	2	20	10	20	-7	3	-16	-3
225(2,10) =	1	1	-1	-3	4	30	-10	20	-10	0	-9	-6	-5	-9
225(2,11) =	1	1	2	0	-6	-30	-3	5	-15	-25	3	4	8	3
225(2,12) =	1	1	-1	3	3	-15	-3	-5	5	-15	3	-7	-1	-7
225(3, 6) =	1	1	-1	-3	11	15	-4	-10	10	20	5	6	-1	-5
225(3, 7) =	1	1	2	0	-16	0	2	-10	-20	20	-7	-6	-7	-2
225(3, 8) =	1	1	-1	3	-2	-30	2	20	-10	0	3	3	19	3
225(3, 9) =	1	1	-1	-3	-9	-15	6	20	0	-10	0	1	-1	6
225(3,10) =	1	1	2	0	9	-15	-3	-5	5	-15	3	-16	-7	-2
225(3,11) =	1	1	-1	3	8	-60	2	-10	10	-10	8	3	-1	-2
225(4, 8) =	1	1	-1	-3	9	-15	0	-10	0	-10	-9	4	5	21
225(4, 9) =	1	1	2	0	4	30	-3	-5	25	5	8	14	3	3
225(4,10) =	1	1	-1	3	-7	45	-8	-10	-20	10	8	3	4	-2
225(5,10) =	1	1	-1	-3	-6	0	15	-15	-15	-15	21	9	0	-9

TABLE 41: IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 0 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-24	0	-9	45	-45	-45	-24	-3	-3	6
225(0, 1) =	1	-14	2	0	-2	-30	2	-10	30	-30	13	-6	3	-2
225(0, 2) =	1	-14	-1	3	-2	-30	-3	-35	-25	5	13	-2	-6	-17
225(0, 3) =	1	-14	-1	-3	16	0	11	-15	25	-15	-14	-3	7	6
225(0, 4) =	1	-14	2	0	-2	-30	-13	15	15	25	13	4	-2	3
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	16	0	-4	-40	0	0	-14	-3	-3	16
225(0, 7) =	1	-14	2	0	-2	30	-3	-35	-25	5	13	4	3	-17
225(0, 8) =	1	-14	-1	3	-2	-30	17	15	-5	15	13	3	4	3
225(0, 9) =	1	-14	-1	-3	16	0	11	15	15	25	-14	7	-8	6
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	30	2	-10	30	-30	13	3	-6	-2
225(0,12) =	1	-14	-1	-3	16	0	-9	-5	5	35	-14	-8	-3	-14
225(0,13) =	1	-14	2	0	-2	30	17	15	-5	15	13	-6	13	3
225(0,14) =	1	-14	-1	3	-2	30	-13	15	15	25	13	13	4	3
225(1, 2) =	1	1	-1	-3	-2	0	5	-5	-15	5	-2	16	6	3
225(1, 3) =	1	1	2	0	-2	0	-8	-10	0	10	-2	-6	-2	13
225(1, 4) =	1	1	-1	3	13	-45	2	10	-30	-10	-2	13	9	3
225(1, 5) =	1	1	-1	-3	-2	0	8	5	15	-15	-2	-9	6	-2
225(1, 6) =	1	1	2	0	-2	60	2	0	0	10	-2	-11	-2	3
225(1, 7) =	1	1	-1	3	-2	0	2	-20	0	-10	-2	-2	9	3
225(1, 8) =	1	1	-1	-3	-2	0	-5	5	15	-5	-2	6	-14	-2
225(1, 9) =	1	1	2	0	-2	0	2	10	0	20	-2	-11	3	-12
225(1,10) =	1	1	-1	3	-2	-60	2	-10	0	0	-2	-12	-6	-2
225(1,11) =	1	1	-1	-3	-2	0	-10	0	0	10	-2	1	1	-12
225(1,12) =	1	1	2	0	13	45	2	10	-30	-10	-2	-11	-12	3
225(1,13) =	1	1	-1	3	-2	0	7	5	15	-5	-2	3	-11	-2
225(2, 4) =	1	1	-1	-3	-2	0	-5	5	15	-5	-2	-9	16	-2
225(2, 5) =	1	1	2	0	-2	-60	-3	-5	5	5	-2	4	-12	13
225(2, 6) =	1	1	-1	3	-2	0	2	10	0	20	-2	-2	-6	-12
225(2, 7) =	1	1	-1	-3	-2	0	5	15	-5	15	-2	6	1	16
225(2, 8) =	1	1	2	0	13	-45	-8	20	0	-20	-2	9	13	-2
225(2, 9) =	1	1	-1	3	13	45	-8	20	0	-20	-2	-12	-11	-2
225(2,10) =	1	1	-1	-3	-2	0	0	-20	-10	-10	-2	1	-9	-2
225(2,11) =	1	1	2	0	-2	0	2	-20	0	-10	-2	4	3	3
225(2,12) =	1	1	-1	3	-2	60	2	0	10	0	-2	3	-11	-12
225(3, 6) =	1	1	-1	-3	-14	0	1	5	-15	-5	16	-3	7	-14
225(3, 7) =	1	1	2	0	-2	0	7	5	15	-5	-2	9	-2	-2
225(3, 8) =	1	1	-1	3	-2	60	-3	-5	5	5	-2	-2	24	13
225(3, 9) =	1	1	-1	-3	-14	0	-4	10	0	-10	16	7	-3	6
225(3,10) =	1	1	2	0	-2	-60	2	0	10	0	-2	-6	-2	-13
225(3,11) =	1	1	-1	3	-2	0	-8	-10	0	10	-2	3	4	13
225(4, 8) =	1	1	-1	-3	-2	0	5	-5	-15	5	-2	-14	-9	3
225(4, 9) =	1	1	2	0	-2	60	2	-10	0	0	-2	24	3	-2
225(4,10) =	1	1	-1	3	-2	-60	2	0	0	10	-2	-2	4	3
225(5,10) =	1	1	-1	-3	48	0	0	0	0	0	48	6	6	-13

TABLE 42: IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 0 (M

	P	I	A	E	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	72	0	-9	45	-45	-45	72	9	9	-18
225(0, 1) =	1	-14	2	0	-3	90	2	-10	30	-30	-7	34	3	-2
225(0, 2) =	1	-14	-1	3	-2	90	-3	-35	-25	5	-7	-2	34	23
225(0, 3) =	1	-14	-1	-3	-8	0	11	-15	25	-15	2	9	-1	22
225(0, 4) =	1	-14	2	0	-2	90	-13	15	15	25	-7	-16	-2	3
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-8	0	-4	-40	0	0	2	-11	9	-8
225(0, 7) =	1	-14	2	0	-2	-90	-3	-35	-25	5	-7	4	-17	23
225(0, 8) =	1	-14	-1	3	-2	90	17	15	-5	15	-7	3	-16	-17
225(0, 9) =	1	-14	-1	-3	-8	0	11	15	15	25	2	-1	4	-16
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	-90	2	-10	30	-30	-7	-17	-6	-2
225(0,12) =	1	-14	-1	-3	-8	0	-9	-5	5	35	2	4	-11	3
225(0,13) =	1	-14	2	0	-2	-90	17	15	-5	15	-7	-6	-7	-17
225(0,14) =	1	-14	-1	3	-2	-90	-13	15	15	25	-7	-7	4	3
225(1, 2) =	1	1	-1	-3	-10	0	5	-5	-15	5	10	-10	-10	5
225(1, 3) =	1	1	2	0	8	-30	-8	-10	0	10	-2	14	8	-2
225(1, 4) =	1	1	-1	3	-7	15	2	10	-30	-10	-2	-7	-1	-2
225(1, 5) =	1	1	-1	-3	10	0	5	5	15	-15	-10	-5	0	10
225(1, 6) =	1	1	2	0	-2	0	2	0	0	10	8	-1	-2	3
225(1, 7) =	1	1	-1	3	8	-30	2	-20	0	-10	-2	8	-1	-2
225(1, 8) =	1	1	-1	-3	-10	0	-5	5	15	-5	10	-10	20	-10
225(1, 9) =	1	1	2	0	8	30	2	10	0	20	-2	-1	-7	8
225(1,10) =	1	1	-1	3	-2	0	2	-10	0	0	8	-2	-6	-2
225(1,11) =	1	1	-1	-3	10	0	-10	0	0	10	-10	5	-5	0
225(1,12) =	1	1	2	0	-7	-15	2	10	-30	-10	-2	-1	8	-2
225(1,13) =	1	1	-1	3	8	30	7	5	15	-5	-2	-7	-1	0
225(2, 4) =	1	1	-1	-3	-10	0	-5	5	15	-5	10	5	-10	-10
225(2, 5) =	1	1	2	0	-2	0	-3	-5	5	5	8	4	-2	-2
225(2, 6) =	1	1	-1	3	8	-30	2	10	0	20	-2	8	14	3
225(2, 7) =	1	1	-1	-3	10	0	5	15	-5	15	-10	0	5	10
225(2, 8) =	1	1	2	0	-7	15	-8	20	0	-20	-2	-1	-7	0
225(2, 9) =	1	1	-1	3	-7	-15	-8	20	0	-20	-2	8	-1	0
225(2,10) =	1	1	-1	-3	10	0	0	-20	-10	-10	-10	-5	-5	-10
225(2,11) =	1	1	2	0	8	30	2	-20	0	-10	-2	-16	-7	-2
225(2,12) =	1	1	-1	3	-2	0	2	0	10	0	8	3	-1	-2
225(3, 6) =	1	1	-1	-3	2	0	1	5	-15	-5	-8	-1	-1	1
225(3, 7) =	1	1	2	0	8	-30	7	5	15	-5	-2	-1	8	1
225(3, 8) =	1	1	-1	3	-2	0	-3	-5	5	5	8	-2	4	-1
225(3, 9) =	1	1	-1	-3	2	0	-4	10	0	-10	-8	-1	-1	1
225(3,10) =	1	1	2	0	-2	0	2	0	10	0	8	-6	8	-2
225(3,11) =	1	1	-1	3	8	30	-8	-10	0	10	-2	-7	-16	-2
225(4, 8) =	1	1	-1	-3	-10	0	5	-5	-15	5	10	20	5	0
225(4, 9) =	1	1	2	0	-2	0	2	-10	0	0	8	4	3	-2
225(4,10) =	1	1	-1	3	-2	0	2	0	0	10	8	8	4	0
225(5,10) =	1	1	-1	-3	0	0	0	0	0	0	0	0	0	0

TABLE 43 : IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 5), IND 5 = 0 (MOD 5), IND 5 = 1 (M

	P	L	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-60	0	-9	45	-45	-45	48	-3	15	-12
225(0, 1) =	1	-14	2	0	-2	-90	2	-10	30	-30	13	24	3	-2
225(0, 2) =	1	-14	-1	3	4	-60	-3	-35	-25	5	-17	-2	24	13
225(0, 3) =	1	-14	-1	-3	10	-30	11	-15	25	-15	-2	-3	-5	18
225(0, 4) =	1	-14	2	0	-2	-90	-13	15	15	25	13	4	-2	3
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	10	30	-4	-40	0	0	-2	-3	15	-2
225(0, 7) =	1	-14	2	0	-2	90	-3	-35	-25	5	13	4	3	13
225(0, 8) =	1	-14	-1	3	4	-60	17	15	-5	15	-17	3	-26	3
225(0, 9) =	1	-14	-1	-3	10	30	11	15	15	25	-2	7	10	-12
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	4	60	2	-10	30	-30	-17	-27	-6	-2
225(0,12) =	1	-14	-1	-3	10	-30	-9	-5	5	35	-2	-8	-15	-2
225(0,13) =	1	-14	2	0	-2	90	17	15	-5	15	13	-6	-17	-22
225(0,14) =	1	-14	-1	3	4	60	-13	15	15	25	-17	13	4	1
225(1, 2) =	1	1	-1	-3	7	15	5	-5	-15	5	7	-14	-3	12
225(1, 3) =	1	1	2	0	-2	30	-8	-10	0	10	-2	9	-2	-2
225(1, 4) =	1	1	-1	3	4	-30	2	10	-30	-10	-2	-2	9	-12
225(1, 5) =	1	1	-1	-3	-8	30	5	5	15	-15	-8	-9	-3	1
225(1, 6) =	1	1	2	0	-2	0	2	0	0	10	-2	-11	-2	1
225(1, 7) =	1	1	-1	3	-11	15	2	-20	0	-10	-2	13	-6	1
225(1, 8) =	1	1	-1	-3	7	-15	-5	5	15	-5	7	-9	7	-22
225(1, 9) =	1	1	2	0	-2	-30	2	10	0	20	-2	-11	3	1
225(1,10) =	1	1	-1	3	4	-30	2	-10	0	0	13	3	-6	-1
225(1,11) =	1	1	-1	-3	-8	30	-10	0	0	10	-8	1	-8	-1
225(1,12) =	1	1	2	0	13	15	2	10	-30	-10	-2	4	3	1
225(1,13) =	1	1	-1	3	-11	-15	7	5	15	-5	-2	3	4	-1
225(2, 4) =	1	1	-1	-3	7	-15	-5	5	15	-5	7	6	7	1
225(2, 5) =	1	1	2	0	-2	0	-3	-5	5	5	-2	4	-12	-1
225(2, 6) =	1	1	-1	3	-11	15	2	10	0	20	-2	-2	9	1
225(2, 7) =	1	1	-1	-3	-8	-30	5	15	-5	15	-8	6	7	1
225(2, 8) =	1	1	2	0	13	-15	-8	20	0	-20	-2	-6	-2	-1
225(2, 9) =	1	1	-1	3	4	30	-8	20	0	-20	-2	3	-11	1
225(2,10) =	1	1	-1	-3	-8	-30	0	-20	-10	-10	-8	1	-3	-1
225(2,11) =	1	1	2	0	-2	-30	2	-20	0	-10	-2	-11	-12	-1
225(2,12) =	1	1	-1	3	4	30	2	0	10	0	13	3	4	-1
225(3, 6) =	1	1	-1	-3	-5	-15	1	5	-15	-5	-2	-3	-5	-1
225(3, 7) =	1	1	2	0	-2	30	7	-5	15	-5	-2	9	13	1
225(3, 8) =	1	1	-1	3	4	30	-3	-5	5	5	13	-2	9	-1
225(3, 9) =	1	1	-1	-3	-5	15	-4	10	0	-10	-2	7	0	1
225(3,10) =	1	1	2	0	-2	0	2	0	10	0	-2	-6	13	1
225(3,11) =	1	1	-1	3	-11	-15	-8	-10	0	10	-2	-12	-11	-1
225(4, 8) =	1	1	-1	-3	7	15	5	-5	-15	5	7	16	-3	-1
225(4, 9) =	1	1	2	0	-2	0	2	-10	0	0	-2	9	3	-1
225(4,10) =	1	1	-1	3	4	-30	2	0	0	10	13	-2	4	1
225(5,10) =	1	1	-1	-3	12	0	0	0	0	0	12	6	-3	-1

TABLE 44 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	36	0	-9	45	-45	-45	0	9	-9	0
225(0, 1) =	1	-14	2	0	-2	30	2	-10	30	-30	-7	4	3	-2
225(0, 2) =	1	-14	-1	3	4	60	-3	-35	-25	5	23	-2	4	-2
225(0, 3) =	1	-14	-1	-3	-14	-30	11	-15	25	-15	-10	9	11	10
225(0, 4) =	1	-14	2	0	-2	30	-13	15	15	25	-7	-16	-2	3
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-14	30	-4	-40	0	0	-10	-11	-9	10
225(0, 7) =	1	-14	2	0	-2	-30	-3	-35	-25	5	-7	4	-17	-2
225(0, 8) =	1	-14	-1	3	4	60	17	15	-5	15	23	3	14	-17
225(0, 9) =	1	-14	-1	-3	-14	30	11	15	15	25	-10	-1	-14	0
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	4	-60	2	-10	30	-30	23	13	-6	-2
225(0,12) =	1	-14	-1	-3	-14	-30	-9	-5	5	35	-10	4	1	-10
225(0,13) =	1	-14	2	0	-2	-30	17	15	-5	15	-7	-6	23	13
225(0,14) =	1	-14	-1	3	4	-60	-13	15	15	25	23	-7	4	3
225(1, 2) =	1	1	-1	-3	-1	15	5	-5	-15	5	1	20	-1	-4
225(1, 3) =	1	1	2	0	8	0	-8	-10	0	10	-2	-1	8	1
225(1, 4) =	1	1	-1	3	-16	30	2	10	-30	-10	-2	8	-1	1
225(1, 5) =	1	1	-1	-3	4	30	5	5	15	-15	-4	-5	9	1
225(1, 6) =	1	1	2	0	-2	-60	2	0	0	10	8	-1	-2	1
225(1, 7) =	1	1	-1	3	-1	-15	2	-20	0	-10	-2	-7	14	-1
225(1, 8) =	1	1	-1	-3	-1	-15	-5	5	15	-5	1	5	-1	1
225(1, 9) =	1	1	2	0	8	0	2	10	0	20	-2	-1	-7	-1
225(1,10) =	1	1	-1	3	4	30	2	-10	0	0	-7	-17	-6	-1
225(1,11) =	1	1	-1	-3	4	30	-10	0	0	10	-4	5	4	-1
225(1,12) =	1	1	2	0	-7	-45	2	10	-30	-10	-2	-16	-7	-1
225(1,13) =	1	1	-1	3	-1	15	7	5	15	-5	-2	-7	-16	1
225(2, 4) =	1	1	-1	-3	-1	-15	-5	5	15	-5	1	-10	-1	-1
225(2, 5) =	1	1	2	0	-2	60	-3	-5	5	5	8	4	-2	1
225(2, 6) =	1	1	-1	3	-1	-15	2	10	0	20	-2	8	-1	-1
225(2, 7) =	1	1	-1	-3	4	-30	5	15	-5	15	-4	0	-1	1
225(2, 8) =	1	1	2	0	-7	45	-8	20	0	-20	-2	14	8	1
225(2, 9) =	1	1	-1	3	-16	-30	-8	20	0	-20	-2	-7	-1	-1
225(2,10) =	1	1	-1	-3	4	-30	0	-20	-10	-10	-4	-5	-11	-1
225(2,11) =	1	1	2	0	8	0	2	-20	0	-10	-2	-1	8	1
225(2,12) =	1	1	-1	3	4	-30	2	0	10	0	-7	3	-16	-1
225(3, 6) =	1	1	-1	-3	11	-15	1	5	-15	-5	10	-1	11	-1
225(3, 7) =	1	1	2	0	8	0	7	5	15	-5	-2	-1	-7	-1
225(3, 8) =	1	1	-1	3	4	-30	-3	-5	5	5	-7	-2	19	1
225(3, 9) =	1	1	-1	-3	11	15	-4	10	0	-10	10	-1	-4	1
225(3,10) =	1	1	2	0	-2	60	2	0	10	0	8	-6	-7	-1
225(3,11) =	1	1	-1	3	-1	15	-8	-10	0	10	-2	8	-1	1
225(4, 8) =	1	1	-1	-3	-1	15	5	-5	-15	5	1	-10	-1	1
225(4, 9) =	1	1	2	0	-2	-60	2	-10	0	0	8	19	3	-1
225(4,10) =	1	1	-1	3	4	30	2	0	0	10	-7	8	4	1
225(5,10) =	1	1	-1	-3	-36	0	0	0	0	0	36	0	9	-1

TABLE 45 : IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 5), IND 3 = 0 (MOD 5), IND 5 = 2 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-60	0	-9	45	-45	-45	48	15	-3	-12
225(0, 1) =	1	-14	2	0	4	-60	2	-10	30	-30	-17	24	3	-2
225(0, 2) =	1	-14	-1	3	-2	-90	-3	-35	-25	5	13	-2	24	13
225(0, 3) =	1	-14	-1	-3	10	30	11	-15	25	-15	-2	15	7	18
225(0, 4) =	1	-14	2	0	4	-60	-13	15	15	25	-17	-26	-2	3
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	10	-30	-4	-40	0	0	-2	-15	-3	-2
225(0, 7) =	1	-14	2	0	4	60	-3	-35	-25	5	-17	4	-27	13
225(0, 8) =	1	-14	-1	3	-2	-90	17	15	-5	15	13	3	4	-27
225(0, 9) =	1	-14	-1	-3	10	-30	11	15	15	25	-2	-5	-8	-12
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	90	2	-10	30	-30	13	3	-6	-2
225(0,12) =	1	-14	-1	-3	10	30	-9	-5	5	35	-2	10	-3	-2
225(0,13) =	1	-14	2	0	4	60	17	15	-5	15	-17	-6	13	3
225(0,14) =	1	-14	-1	3	-2	90	-13	15	15	25	13	-17	4	3
225(1, 2) =	1	1	-1	-3	7	-15	5	-5	-15	5	7	7	-9	-3
225(1, 3) =	1	1	2	0	-11	15	-8	-10	0	10	-2	9	13	-2
225(1, 4) =	1	1	-1	3	13	-15	2	10	-30	-10	-2	-2	-6	3
225(1, 5) =	1	1	-1	-3	-8	-30	5	5	15	-15	-8	-3	6	7
225(1, 6) =	1	1	2	0	4	30	2	0	0	10	13	4	-2	3
225(1, 7) =	1	1	-1	3	-2	30	2	-20	0	-10	-2	-2	9	-12
225(1, 8) =	1	1	-1	-3	7	15	-5	5	15	-5	7	-3	16	7
225(1, 9) =	1	1	2	0	-11	-15	2	10	0	20	-2	4	-12	3
225(1,10) =	1	1	-1	3	-2	0	2	-10	0	0	-2	-12	-6	-3
225(1,11) =	1	1	-1	-3	-8	-30	-10	0	0	10	-8	7	1	-3
225(1,12) =	1	1	2	0	4	30	2	10	-30	-10	-2	-11	3	-12
225(1,13) =	1	1	-1	3	-2	-30	7	5	15	-5	-2	-12	-11	13
225(2, 4) =	1	1	-1	-3	7	15	-5	5	15	-5	7	-3	-14	-22
225(2, 5) =	1	1	2	0	4	-30	-3	-5	5	5	13	4	3	-3
225(2, 6) =	1	1	-1	3	-2	30	2	10	0	20	-2	13	9	3
225(2, 7) =	1	1	-1	-3	-8	30	5	15	-5	15	-8	-3	1	13
225(2, 8) =	1	1	2	0	4	-30	-8	20	0	-20	-2	9	-2	13
225(2, 9) =	1	1	-1	3	13	15	-8	20	0	-20	-2	3	4	-3
225(2,10) =	1	1	-1	-3	-8	30	0	-20	-10	-10	-8	-8	-9	-0
225(2,11) =	1	1	2	0	-11	-15	2	-20	0	-10	-2	-11	3	3
225(2,12) =	1	1	-1	3	-2	0	2	0	10	0	-2	3	-11	3
225(3, 6) =	1	1	-1	-3	-5	15	1	5	-15	-5	-2	0	7	-3
225(3, 7) =	1	1	2	0	-11	15	7	5	15	-5	-2	-6	-2	-3
225(3, 8) =	1	1	-1	3	-2	0	-3	-5	5	5	-2	-2	9	-3
225(3, 9) =	1	1	-1	-3	-5	-15	-4	10	0	-10	-2	-5	-3	3
225(3,10) =	1	1	2	0	4	-30	2	0	10	0	13	-6	-2	-1
225(3,11) =	1	1	-1	3	-2	-30	-8	-10	0	10	-2	3	-11	-3
225(4, 8) =	1	1	-1	-3	7	-15	5	-5	-15	5	7	7	6	1
225(4, 9) =	1	1	2	0	4	30	2	-10	0	0	13	9	3	-3
225(4,10) =	1	1	-1	3	-2	0	2	0	0	10	-2	13	4	3
225(5,10) =	1	1	-1	-3	12	0	0	0	0	0	12	-3	6	-3

TABLE 46 : IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 5), IND 5 = 0 (MOD 5), IND 7 = 2 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	36	0	-9	45	-45	-45	0	-9	9	0
225(0, 1) =	1	-14	2	0	4	60	2	-10	30	-30	23	4	3	-2
225(0, 2) =	1	-14	-1	3	-2	30	-3	-35	-25	5	-7	-2	4	-7
225(0, 3) =	1	-14	-1	-3	-14	30	11	-15	25	-15	-10	-9	-1	10
225(0, 4) =	1	-14	2	0	4	60	-13	15	15	25	23	14	-2	3
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-14	-30	-4	-40	0	0	-10	1	9	10
225(0, 7) =	1	-14	2	0	4	-60	-3	-35	-25	5	23	4	13	-7
225(0, 8) =	1	-14	-1	3	-2	30	17	15	-5	15	-7	3	-16	13
225(0, 9) =	1	-14	-1	-3	-14	-30	11	15	15	25	-10	11	4	0
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	-30	2	-10	30	-30	-7	-17	-6	-2
225(0,12) =	1	-14	-1	-3	-14	30	-9	-5	5	35	-10	-14	-11	-10
225(0,13) =	1	-14	2	0	4	-60	17	15	-5	15	23	-6	-7	-17
225(0,14) =	1	-14	-1	3	-2	-30	-13	15	15	25	-7	23	4	3
225(1, 2) =	1	1	-1	-3	-1	-15	5	-5	-15	5	1	-1	5	11
225(1, 3) =	1	1	2	0	-1	-15	-8	-10	0	10	-2	-1	-7	8
225(1, 4) =	1	1	-1	3	-7	45	2	10	-30	-10	-2	8	14	-7
225(1, 5) =	1	1	-1	-3	4	-30	5	5	15	-15	-4	-11	0	1
225(1, 6) =	1	1	2	0	4	-30	2	0	0	10	-7	-16	-2	3
225(1, 7) =	1	1	-1	3	8	0	2	-20	0	-10	-2	8	-1	8
225(1, 8) =	1	1	-1	-3	-1	15	-5	5	15	-5	1	-1	-10	-19
225(1, 9) =	1	1	2	0	-1	15	2	10	0	20	-2	-16	8	-7
225(1,10) =	1	1	-1	3	-2	60	2	-10	0	0	8	-2	-6	-2
225(1,11) =	1	1	-1	-3	4	-30	-10	0	0	10	-4	-1	-5	-9
225(1,12) =	1	1	2	0	-16	-30	2	10	-30	-10	-2	-1	-7	8
225(1,13) =	1	1	-1	3	8	0	7	5	15	-5	-2	8	-1	-7
225(2, 4) =	1	1	-1	-3	-1	15	-5	5	15	-5	1	-1	20	11
225(2, 5) =	1	1	2	0	4	30	-3	-5	5	5	-7	4	-17	8
225(2, 6) =	1	1	-1	3	8	0	2	10	0	20	-2	-7	-1	-7
225(2, 7) =	1	1	-1	-3	4	30	5	15	-5	15	-4	9	5	16
225(2, 8) =	1	1	2	0	-16	30	-8	20	0	-20	-2	-1	8	-7
225(2, 9) =	1	1	-1	3	-7	-45	-8	20	0	-20	-2	-7	-16	8
225(2,10) =	1	1	-1	-3	4	30	0	-20	-10	-10	-4	4	-5	-4
225(2,11) =	1	1	2	0	-1	15	2	-20	0	-10	-2	-1	-7	-7
225(2,12) =	1	1	-1	3	-2	-60	2	0	10	0	8	3	-1	-17
225(3, 6) =	1	1	-1	-3	11	15	1	5	-15	-5	10	-4	-1	-10
225(3, 7) =	1	1	2	0	-1	-15	7	5	15	-5	-2	14	8	9
225(3, 8) =	1	1	-1	3	-2	-60	-3	-5	5	5	8	-2	19	8
225(3, 9) =	1	1	-1	-3	11	-15	-4	10	0	-10	10	11	-1	5
225(3,10) =	1	1	2	0	4	30	2	0	10	0	-7	-6	8	-2
225(3,11) =	1	1	-1	3	8	0	-8	-10	0	10	-2	-7	-1	9
225(4, 8) =	1	1	-1	-3	-1	-15	5	-5	-15	5	1	-1	-10	-4
225(4, 9) =	1	1	2	0	4	-30	2	-10	0	0	-7	19	3	-2
225(4,10) =	1	1	-1	3	-2	60	2	0	0	10	8	-7	4	3
225(5,10) =	1	1	-1	-3	-36	0	0	0	0	0	36	9	0	-9

TABLE 47 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 0 (M

	P	1	A	I	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	36	0	-9	-15	15	-45	36	-3	-3	6
225(0, 1) =	1	-14	2	0	-2	90	-8	-20	0	0	13	14	3	-22
225(0, 2) =	1	-14	-1	3	-2	30	7	-25	5	15	3	8	24	3
225(0, 3) =	1	-14	-1	-3	-4	0	1	-5	-5	35	6	7	7	26
225(0, 4) =	1	-14	2	0	-12	0	-3	5	-15	-5	-17	-6	-2	13
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	16	0	16	-20	0	0	-14	-13	-3	-4
225(0, 7) =	1	-14	2	0	-2	-30	7	-25	5	15	3	-16	3	3
225(0, 8) =	1	-14	-1	3	8	60	7	25	25	5	3	13	-26	-7
225(0, 9) =	1	-14	-1	-3	-24	0	-9	35	15	25	-14	-3	-8	-14
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	-90	-8	-20	0	0	13	-7	-6	-22
225(0,12) =	1	-14	-1	-3	16	0	1	5	-25	-15	6	2	-3	6
225(0,13) =	1	-14	2	0	8	-60	7	25	25	5	3	4	13	-7
225(0,14) =	1	-14	-1	3	-12	0	-3	5	-15	-5	-17	3	4	13
225(1, 2) =	1	1	-1	-3	-12	0	5	5	-5	5	8	-4	-9	6
225(1, 3) =	1	1	2	0	-2	-60	7	5	-5	-5	3	14	-2	-7
225(1, 4) =	1	1	-1	3	3	-45	2	-10	10	-10	-7	-7	9	-7
225(1, 5) =	1	1	-1	-3	-2	0	-5	-5	15	-15	-2	-4	6	1
225(1, 6) =	1	1	2	0	3	45	-3	5	15	25	13	-6	-2	-2
225(1, 7) =	1	1	-1	3	3	-45	2	-10	-20	20	-7	8	-6	8
225(1, 8) =	1	1	-1	-3	-2	0	-5	5	-5	-5	3	11	16	-7
225(1, 9) =	1	1	2	0	3	-45	2	20	-20	-10	8	-16	3	-7
225(1,10) =	1	1	-1	3	-2	0	7	-5	15	-15	-2	-7	-6	0
225(1,11) =	1	1	-1	-3	18	0	0	-10	0	10	-2	6	1	-7
225(1,12) =	1	1	2	0	3	45	2	-10	10	-10	-7	-1	-12	-7
225(1,13) =	1	1	-1	3	13	15	-8	20	10	10	-12	-7	4	0
225(2, 4) =	1	1	-1	-3	-2	0	-5	5	-5	-5	3	-19	-14	-7
225(2, 5) =	1	1	2	0	-2	-30	-8	-10	-10	0	3	14	-12	
225(2, 6) =	1	1	-1	3	3	45	2	20	-20	-10	8	9	9	-7
225(2, 7) =	1	1	-1	-3	8	0	10	10	10	-10	-12	1	1	0
225(2, 8) =	1	1	2	0	-2	30	-8	-10	10	-20	3	-1	13	
225(2, 9) =	1	1	-1	3	-2	-30	-8	-10	10	-20	3	8	-11	
225(2,10) =	1	1	-1	-3	-2	0	-5	-25	5	15	-12	-4	9	-1
225(2,11) =	1	1	2	0	3	45	2	-10	-20	20	-7	-1	3	
225(2,12) =	1	1	-1	3	-7	15	7	-5	-5	5	3	-2	4	-7
225(3, 6) =	1	1	-1	-3	-14	0	1	5	25	-5	6	2	7	-7
225(3, 7) =	1	1	2	0	13	-15	-8	20	10	10	-12	-1	-2	
225(3, 8) =	1	1	-1	3	-2	30	-8	-10	-10	0	3	-7	9	
225(3, 9) =	1	1	-1	-3	6	0	-4	-10	-20	-10	4	2	-3	-7
225(3,10) =	1	1	2	0	-7	-15	7	-5	-5	5	3	-11	-2	-7
225(3,11) =	1	1	-1	3	-2	60	7	5	-5	-5	3	-7	-11	-7
225(4, 8) =	1	1	-1	-3	-12	0	5	5	-5	5	8	11	6	
225(4, 9) =	1	1	2	0	-2	0	7	-5	15	-15	-2	14	3	
225(4,10) =	1	1	-1	3	3	-45	-3	5	15	25	13	3	4	-7
225(5,10) =	1	1	-1	-3	18	0	0	30	-30	0	18	6	6	-1

TABLE 48 : IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	12	0	-9	-15	15	-45	12	9	9	-1
225(0, 1) =	1	-14	2	0	-2	-30	-8	-20	0	0	-7	14	3	1
225(0, 2) =	1	-14	-1	3	-2	30	7	-25	5	15	3	-12	4	
225(0, 3) =	1	-14	-1	-3	12	0	1	-5	-5	35	-18	-1	-1	
225(0, 4) =	1	-14	2	0	8	60	-3	5	-15	-5	23	-6	-2	-
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-8	0	16	-20	0	0	2	-1	9	1
225(0, 7) =	1	-14	2	0	-2	-30	7	-25	5	15	3	24	-17	
225(0, 8) =	1	-14	-1	3	-12	0	7	25	25	5	3	-7	14	-
225(0, 9) =	1	-14	-1	-3	32	0	-9	35	15	25	2	9	4	
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	30	-8	-20	0	0	-7	-7	-6	1
225(0,12) =	1	-14	-1	-3	-8	0	1	5	-25	-15	-18	-6	-11	-1
225(0,13) =	1	-14	2	0	-12	0	7	25	25	5	3	-16	-7	-
225(0,14) =	1	-14	-1	3	8	-60	-3	5	-15	-5	23	3	4	-
225(1, 2) =	1	1	-1	-3	0	0	5	5	-5	5	0	10	5	
225(1, 3) =	1	1	2	0	8	30	7	5	-5	-5	-7	-6	8	1
225(1, 4) =	1	1	-1	3	3	15	2	-10	10	-10	3	13	-1	
225(1, 5) =	1	1	-1	-3	10	0	-5	-5	15	-15	-10	-10	0	
225(1, 6) =	1	1	2	0	-7	15	-3	5	15	25	-7	-6	-2	
225(1, 7) =	1	1	-1	3	3	15	2	-10	-20	20	3	-2	14	-1
225(1, 8) =	1	1	-1	-3	-10	0	-5	5	-5	-5	5	-15	-10	-1
225(1, 9) =	1	1	2	0	3	75	2	20	-20	-10	-12	4	-7	
225(1,10) =	1	1	-1	3	-2	-60	7	-5	15	-15	8	-7	-6	-1
225(1,11) =	1	1	-1	-3	-10	0	0	-10	0	10	-10	0	-5	-1
225(1,12) =	1	1	2	0	3	-15	2	-10	10	-10	3	-11	8	
225(1,13) =	1	1	-1	3	-7	15	-8	20	10	10	8	3	-16	-
225(2, 4) =	1	1	-1	-3	-10	0	-5	5	-5	-5	5	15	20	-5
225(2, 5) =	1	1	2	0	-2	-30	-8	-10	-10	0	3	-6	-2	
225(2, 6) =	1	1	-1	3	3	-75	2	20	-20	-10	-12	-2	-1	
225(2, 7) =	1	1	-1	-3	0	0	10	10	10	-10	0	5	5	2
225(2, 8) =	1	1	2	0	8	-60	-8	-10	10	-20	-7	9	-7	-
225(2, 9) =	1	1	-1	3	8	60	-8	-10	10	-20	-7	-12	-1	-
225(2,10) =	1	1	-1	-3	10	0	-5	-25	5	15	0	0	-5	
225(2,11) =	1	1	2	0	3	-15	2	-10	-20	20	3	-11	-7	-1
225(2,12) =	1	1	-1	3	3	45	7	-5	-5	5	3	8	-16	-
225(3, 6) =	1	1	-1	-3	3	0	1	5	25	-5	2	-6	-1	-
225(3, 7) =	1	1	2	0	-7	-15	-8	20	10	10	8	9	8	-
225(3, 8) =	1	1	-1	3	-2	30	-8	-10	-10	0	3	3	19	
225(3, 9) =	1	1	-1	-3	-18	0	-4	-10	-20	-10	12	4	-1	1
225(3,10) =	1	1	2	0	3	-45	7	-5	-5	5	3	-1	8	-
225(3,11) =	1	1	-1	3	8	-30	7	5	-5	-5	-7	3	-1	1
225(4, 8) =	1	1	-1	-3	0	0	5	5	-5	5	0	-5	-10	
225(4, 9) =	1	1	2	0	-2	60	7	-5	15	-15	8	14	3	-1
225(4,10) =	1	1	-1	3	-7	-15	-3	5	15	25	-7	3	4	
225(5,10) =	1	1	-1	-3	30	0	0	30	-30	0	30	0	0	

TABLE 49: IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 1 (

	P	L	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	0	0	-9	-15	15	-45	18	-3	15	-1
225(0, 1) =	1	-14	2	0	-2	30	-8	-20	0	0	-17	14	3	
225(0, 2) =	1	-14	-1	3	4	0	7	-25	5	15	3	-22	-6	
225(0, 3) =	1	-14	-1	-3	-10	-30	1	-5	-5	35	-12	7	-5	
225(0, 4) =	1	-14	2	0	-12	-60	-3	5	-15	-5	13	-6	-2	-1
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	10	30	16	-20	0	0	-2	-13	15	
225(0, 7) =	1	-14	2	0	-2	30	7	-25	5	15	3	14	-27	
225(0, 8) =	1	-14	-1	3	14	30	7	25	25	5	3	13	4	-
225(0, 9) =	1	-14	-1	-3	-30	30	-9	35	15	25	-2	-3	10	-
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	4	-60	-8	-20	0	0	13	-7	-6	
225(0,12) =	1	-14	-1	-3	10	-30	1	5	-25	-15	-12	2	-15	-1
225(0,13) =	1	-14	2	0	8	0	7	25	25	5	3	4	13	-
225(0,14) =	1	-14	-1	3	-6	30	-3	5	-15	-5	13	3	4	1
225(1, 2) =	1	1	-1	-3	-3	15	5	5	-5	5	17	11	-3	-1
225(1, 3) =	1	1	2	0	-2	-30	7	5	-5	-5	-12	-1	13	
225(1, 4) =	1	1	-1	3	-6	-30	2	-10	10	-10	8	8	9	
225(1, 5) =	1	1	-1	-3	-8	30	-5	-5	15	-15	-8	-4	-3	
225(1, 6) =	1	1	2	0	3	-15	-3	5	15	25	-2	-6	-2	1
225(1, 7) =	1	1	-1	3	-6	-30	2	-10	-20	20	-7	8	9	-
225(1, 8) =	1	1	-1	-3	7	-15	-5	5	-5	-5	12	-19	7	-1
225(1, 9) =	1	1	2	0	3	-75	2	20	-20	-10	-7	-1	-12	
225(1,10) =	1	1	-1	3	4	30	7	-5	15	-15	-2	-7	-6	-
225(1,11) =	1	1	-1	-3	12	30	0	-10	0	10	-8	6	-8	-
225(1,12) =	1	1	2	0	3	15	2	-10	10	-10	-7	-16	3	-
225(1,13) =	1	1	-1	3	4	0	-8	20	10	10	3	-7	-11	
225(2, 4) =	1	1	-1	-3	7	-15	-5	5	-5	-5	-3	11	7	
225(2, 5) =	1	1	2	0	-3	30	-8	-10	-10	0	3	-1	3	
225(2, 6) =	1	1	-1	3	-6	60	2	20	-20	-10	-7	-7	-6	-
225(2, 7) =	1	1	-1	-3	2	-30	10	10	10	-10	-3	1	7	1
225(2, 8) =	1	1	2	0	-2	60	-8	-10	10	-20	3	14	-2	
225(2, 9) =	1	1	-1	3	-11	-45	-8	-10	10	-20	-12	-7	-11	-
225(2,10) =	1	1	-1	-3	-8	-30	-5	-25	5	15	-3	-4	-3	-
225(2,11) =	1	1	2	0	3	15	2	-10	-20	20	8	-1	3	-
225(2,12) =	1	1	-1	3	-1	-15	7	-5	-5	5	3	-2	-11	-
225(3, 6) =	1	1	-1	-3	-5	-15	1	5	25	-5	3	3	-5	-
225(3, 7) =	1	1	2	0	13	15	-8	20	10	10	3	-1	-2	-
225(3, 8) =	1	1	-1	3	4	0	-8	-10	-10	0	3	8	24	
225(3, 9) =	1	1	-1	-3	15	15	-4	-10	-20	-10	8	2	0	
225(3,10) =	1	1	2	0	-7	45	7	-5	-5	5	3	-11	-2	
225(3,11) =	1	1	-1	3	-11	45	7	5	-5	-5	3	8	4	
225(4, 8) =	1	1	-1	-3	-3	15	5	5	-5	5	-13	-4	-3	
225(4, 9) =	1	1	2	0	-2	-60	7	-5	15	-15	13	14	3	
225(4,10) =	1	1	-1	3	9	-15	-3	5	15	25	-2	2	4	
225(5,10) =	1	1	-1	-3	-18	0	0	30	-30	0	27	6	-3	

TABLE 50: IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 1

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2
225(0, 0) =	1	-44	-1	-3	-24	0	-9	-15	15	-45	30	9	-9
225(0, 1) =	1	-14	2	0	-2	-90	-8	-20	0	0	23	14	3
225(0, 2) =	1	-14	-1	3	4	0	7	-25	5	15	3	18	34
225(0, 3) =	1	-14	-1	-3	6	-30	1	-5	-5	35	0	-1	11
225(0, 4) =	1	-14	2	0	8	0	-3	5	-15	-5	-7	-6	-2
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6
225(0, 6) =	1	-14	-1	-3	-14	30	16	-20	0	0	-10	-1	-9
225(0, 7) =	1	-14	2	0	-2	30	7	-25	5	15	3	-6	13
225(0, 8) =	1	-14	-1	3	-6	-30	7	25	25	5	3	-7	-16
225(0, 9) =	1	-14	-1	-3	26	30	-9	35	15	25	-10	9	-14
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3
225(0,11) =	1	-14	-1	3	4	60	-8	-20	0	0	-7	-7	-6
225(0,12) =	1	-14	-1	-3	-14	-30	1	5	-25	-15	0	-6	1
225(0,13) =	1	-14	2	0	-12	60	7	25	25	5	3	-16	-7
225(0,14) =	1	-14	-1	3	14	-30	-3	5	-15	-5	-7	3	4
225(1, 2) =	1	1	-1	-3	9	15	5	5	-5	5	-9	-5	-1
225(1, 3) =	1	1	2	0	8	60	7	5	-5	-5	8	9	-7
225(1, 4) =	1	1	-1	3	-6	30	2	-10	10	-10	-12	-2	-1
225(1, 5) =	1	1	-1	-3	4	30	-5	-5	15	-15	-4	-10	9
225(1, 6) =	1	1	2	0	-7	-45	-3	5	15	25	8	-6	-2
225(1, 7) =	1	1	-1	3	-6	30	2	-10	-20	20	3	-2	-1
225(1, 8) =	1	1	-1	-3	-1	-15	-5	5	-5	-5	-4	15	-1
225(1, 9) =	1	1	2	0	3	45	2	20	-20	-10	3	-11	8
225(1,10) =	1	1	-1	3	4	-30	7	-5	15	-15	8	-7	-6
225(1,11) =	1	1	-1	-3	-16	30	0	-10	0	10	-4	0	4
225(1,12) =	1	1	2	0	3	-45	2	-10	10	-10	3	4	-7
225(1,13) =	1	1	-1	3	-16	0	-8	20	10	10	-7	3	-1
225(2, 4) =	1	1	-1	-3	-1	-15	-5	5	-5	-5	11	-15	-1
225(2, 5) =	1	1	2	0	-2	30	-8	-10	-10	0	3	9	-17
225(2, 6) =	1	1	-1	3	-6	-60	2	20	-20	-10	3	13	14
225(2, 7) =	1	1	-1	-3	-6	-30	10	10	10	-10	-9	5	-1
225(2, 8) =	1	1	2	0	8	-30	-8	-10	10	-20	-7	-6	8
225(2, 9) =	1	1	-1	3	-1	45	-8	-10	10	-20	8	3	-1
225(2,10) =	1	1	-1	-3	4	-30	-5	-25	5	15	-9	0	-11
225(2,11) =	1	1	2	0	3	-45	2	-10	-20	20	-12	-11	-7
225(2,12) =	1	1	-1	3	9	15	7	-5	-5	5	3	8	-1
225(3, 6) =	1	1	-1	-3	11	-15	1	5	25	-5	5	-6	11
225(3, 7) =	1	1	2	0	-7	15	-8	20	10	10	-7	9	8
225(3, 8) =	1	1	-1	3	4	0	-8	-10	-10	0	3	-12	4
225(3, 9) =	1	1	-1	-3	-9	15	-4	-10	-20	-10	0	4	-4
225(3,10) =	1	1	2	0	3	15	7	-5	-5	5	3	-1	8
225(3,11) =	1	1	-1	3	-1	-45	7	5	-5	-5	-7	-12	-16
225(4, 8) =	1	1	-1	-3	9	15	5	5	-5	5	21	10	-1
225(4, 9) =	1	1	2	0	-2	0	7	-5	15	-15	-7	14	3
225(4,10) =	1	1	-1	3	-1	15	-3	5	15	25	8	3	4
225(5,10) =	1	1	-1	-3	-6	0	0	30	-30	0	21	0	9

TABLE 5[: IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 2 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	0	0	-9	-15	15	-45	18	15	-3	-1
225(0, 1) =	1	-14	2	0	4	60	-8	-20	0	0	13	14	3	
225(0, 2) =	1	-14	-1	3	-2	-30	7	-25	5	15	3	8	24	
225(0, 3) =	1	-14	-1	-3	-10	30	1	-5	-5	35	-12	-5	7	
225(0, 4) =	1	-14	2	0	-6	-30	-3	5	-15	-5	13	-6	-2	1
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	10	-30	16	-20	0	0	-2	5	-3	
225(0, 7) =	1	-14	2	0	4	0	7	-25	5	15	3	14	3	
225(0, 8) =	1	-14	-1	3	8	0	7	25	25	5	3	-17	4	-1
225(0, 9) =	1	-14	-1	-3	-30	-30	-9	35	15	25	-2	15	-8	-
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	-30	-8	-20	0	0	-17	-7	-6	
225(0,12) =	1	-14	-1	-3	10	30	1	5	-25	-15	-12	-10	-3	-1
225(0,13) =	1	-14	2	0	14	-30	7	25	25	5	3	-26	-17	-
225(0,14) =	1	-14	-1	3	-12	60	-3	5	-15	-5	13	3	4	-1
225(1, 2) =	1	1	-1	-3	-3	-15	5	5	-5	5	-13	2	6	1
225(1, 3) =	1	1	2	0	-11	-45	7	5	-5	-5	3	-1	-2	
225(1, 4) =	1	1	-1	3	3	-15	2	-10	10	-10	-7	0	-6	-
225(1, 5) =	1	1	-1	-3	-8	-30	-5	-5	15	-15	-8	-13	6	
225(1, 6) =	1	1	2	0	9	15	-3	5	15	25	-2	-6	-2	-
225(1, 7) =	1	1	-1	3	3	-15	2	-10	-20	20	8	-7	9	-
225(1, 8) =	1	1	-1	-3	7	15	-5	5	-5	-5	-3	2	-14	
225(1, 9) =	1	1	2	0	-6	-60	2	20	-20	-10	-7	-1	3	-
225(1,10) =	1	1	-1	3	-2	60	7	-5	15	-15	13	-7	-6	-
225(1,11) =	1	1	-1	-3	12	-30	0	-10	0	10	-8	-3	1	-
225(1,12) =	1	1	2	0	-6	30	2	-10	10	-10	8	-1	3	
225(1,13) =	1	1	-1	3	13	-15	-8	20	10	10	3	8	-11	-
225(2, 4) =	1	1	-1	-3	7	15	-5	5	-5	-5	12	2	16	-1
225(2, 5) =	1	1	2	0	4	0	-8	-10	-10	0	3	-1	-12	
225(2, 6) =	1	1	-1	3	3	75	2	20	-20	-10	-7	8	9	
225(2, 7) =	1	1	-1	-3	2	30	10	10	10	-10	-3	7	1	1
225(2, 8) =	1	1	2	0	-11	45	-8	-10	10	-20	-12	-1	-2	-
225(2, 9) =	1	1	-1	3	-2	-60	-8	-10	10	-20	3	-7	4	
225(2,10) =	1	1	-1	-3	-8	30	-5	-25	5	15	-3	2	-9	-
225(2,11) =	1	1	2	0	-6	30	2	-10	-20	20	-7	-16	-12	-
225(2,12) =	1	1	-1	3	-7	-45	7	-5	-5	5	3	13	-11	-
225(3, 6) =	1	1	-1	-3	-5	15	1	5	25	-5	3	-10	7	-
225(3, 7) =	1	1	2	0	4	0	-8	20	10	10	3	14	13	
225(3, 8) =	1	1	-1	3	-2	-30	-8	-10	-10	0	3	-7	9	
225(3, 9) =	1	1	-1	-3	15	-15	-4	-10	-20	-10	8	5	-3	
225(3,10) =	1	1	2	0	-1	15	7	-5	-5	5	3	4	13	-
225(3,11) =	1	1	-1	3	-2	30	7	5	-5	-5	-12	-7	-11	
225(4, 8) =	1	1	-1	-3	-3	-15	5	5	-5	5	17	2	-9	-1
225(4, 9) =	1	1	2	0	4	-30	7	-5	15	-15	-2	14	3	-
225(4,10) =	1	1	-1	3	3	15	-3	5	15	25	-2	3	4	1
225(5,10) =	1	1	-1	-3	-18	0	0	30	-30	0	27	-3	6	-

TABLE 52 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 1 (MOD 5), IND 5 = 2 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	-24	0	-9	-15	15	-45	30	-9	9	
225(0, 1) =	1	-14	2	0	4	-60	-8	-20	0	0	-7	14	3	-1
225(0, 2) =	1	-14	-1	3	-2	-30	7	-25	5	15	3	-1	4	
225(0, 3) =	1	-14	-1	-3	6	30	1	-5	-5	35	0	11	-1	2
225(0, 4) =	1	-14	2	0	14	30	-3	5	-15	-5	-7	-6	-2	
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-14	-30	16	-20	0	0	-10	-19	9	
225(0, 7) =	1	-14	2	0	4	0	7	-25	5	15	3	-6	-17	
225(0, 8) =	1	-14	-1	3	-12	-60	7	25	25	5	3	23	-16	
225(0, 9) =	1	-14	-1	-3	26	-30	-9	35	15	25	-10	-9	4	-1
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	90	-8	-20	0	0	23	-7	-6	-1
225(0,12) =	1	-14	-1	-3	-14	30	1	5	-25	-15	0	6	-11	
225(0,13) =	1	-14	2	0	-6	30	7	25	25	5	3	14	23	
225(0,14) =	1	-14	-1	3	8	0	-3	5	-15	-5	-7	3	4	
225(1, 2) =	1	1	-1	-3	9	-15	5	5	-5	5	21	4	-10	
225(1, 3) =	1	1	2	0	-1	45	7	5	-5	-5	-7	9	8	
225(1, 4) =	1	1	-1	3	3	45	2	-10	10	-10	3	-2	14	
225(1, 5) =	1	1	-1	-3	4	-30	-5	-5	15	-15	-4	-1	0	
225(1, 6) =	1	1	2	0	-1	-15	-3	5	15	25	8	-6	-2	
225(1, 7) =	1	1	-1	3	3	45	2	-10	-20	20	-12	13	-1	
225(1, 8) =	1	1	-1	-3	-1	15	-5	5	-5	-5	11	-6	20	-1
225(1, 9) =	1	1	2	0	-6	60	2	20	-20	-10	3	-11	-7	
225(1,10) =	1	1	-1	3	-2	0	7	-5	15	-15	-7	-7	-6	
225(1,11) =	1	1	-1	-3	-16	-30	0	-10	0	10	-4	9	-5	
225(1,12) =	1	1	2	0	-6	-30	2	-10	10	-10	-12	-11	-7	-1
225(1,13) =	1	1	-1	3	-7	-15	-8	20	10	10	-7	-12	-1	1
225(2, 4) =	1	1	-1	-3	-1	15	-5	5	-5	-5	-4	-6	-10	
225(2, 5) =	1	1	2	0	4	0	-8	-10	-10	0	3	9	-2	
225(2, 6) =	1	1	-1	3	3	-45	2	20	-20	-10	3	-2	-1	-1
225(2, 7) =	1	1	-1	-3	-6	30	10	10	10	-10	-9	-1	5	
225(2, 8) =	1	1	2	0	-1	-45	-8	-10	10	-20	8	9	8	
225(2, 9) =	1	1	-1	3	8	30	-8	-10	10	-20	-7	3	-16	
225(2,10) =	1	1	-1	-3	4	30	-5	-25	5	15	-9	-6	-5	
225(2,11) =	1	1	2	0	-6	-30	2	-10	-20	20	3	4	8	
225(2,12) =	1	1	-1	3	3	-15	7	-5	-5	5	3	-7	-1	
225(3, 6) =	1	1	-1	-3	11	15	1	5	25	-5	5	6	-1	
225(3, 7) =	1	1	2	0	-16	0	-8	20	10	10	-7	-6	-7	
225(3, 8) =	1	1	-1	3	-2	-30	-8	-10	-10	0	3	3	19	
225(3, 9) =	1	1	-1	-3	-9	-15	-4	-10	-20	-10	0	1	-1	
225(3,10) =	1	1	2	0	9	-15	7	-5	-5	5	3	-16	-7	
225(3,11) =	1	1	-1	3	8	-60	7	5	-5	-5	8	3	-1	
225(4, 8) =	1	1	-1	-3	9	-15	5	5	-5	5	-9	4	5	
225(4, 9) =	1	1	2	0	4	30	7	-5	15	-15	8	14	3	
225(4,10) =	1	1	-1	3	-7	45	-3	5	15	25	8	3	4	
225(5,10) =	1	1	-1	-3	-6	0	0	30	-30	0	21	9	0	

TABLE 53 : IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	36	0	-9	-15	-45	15	36	-3	-3	-5
225(0, 1) =	1	-14	2	0	8	60	12	-20	0	-20	3	14	13	
225(0, 2) =	1	-14	-1	3	-2	90	-3	5	-5	25	13	8	14	1
225(0, 3) =	1	-14	-1	-3	-24	0	21	15	-5	-5	-14	7	-3	
225(0, 4) =	1	-14	2	0	-2	30	-3	-15	25	15	3	-6	8	1
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-4	0	6	10	30	10	6	-13	7	-
225(0, 7) =	1	-14	2	0	-2	-90	-3	5	-5	25	13	14	-7	1
225(0, 8) =	1	-14	-1	3	-12	0	-3	15	-5	-5	-17	13	-5	
225(0, 9) =	1	-14	-1	-3	16	0	-9	15	-5	-15	6	-3	2	-1
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	8	-60	12	-20	0	-20	3	-7	4	
225(0,12) =	1	-14	-1	-3	16	0	-9	-25	25	-5	-14	2	-13	-1
225(0,13) =	1	-14	2	0	-12	0	-3	15	-5	-5	-17	-26	3	
225(0,14) =	1	-14	-1	3	-2	-30	-3	-15	25	15	3	3	-16	1
225(1, 2) =	1	1	-1	-3	-2	0	0	10	-10	0	3	11	11	-
225(1, 3) =	1	1	2	0	3	-45	-3	15	25	5	-7	-1	8	
225(1, 4) =	1	1	-1	3	-2	30	-3	-5	-25	15	3	-7	-1	-
225(1, 5) =	1	1	-1	-3	8	0	0	-20	0	-20	-12	-4	1	
225(1, 6) =	1	1	2	0	-2	30	-3	15	-5	15	3	-6	-7	-
225(1, 7) =	1	1	-1	3	13	-15	12	10	-10	0	-12	8	-1	-
225(1, 8) =	1	1	-1	-3	-12	0	0	0	10	-10	8	-19	11	-1
225(1, 9) =	1	1	2	0	-2	60	-3	-5	5	-15	3	-1	-7	
225(1,10) =	1	1	-1	3	-7	-15	-3	-5	15	-5	3	-7	-11	-
225(1,11) =	1	1	-1	-3	-2	0	0	0	10	30	-12	6	-4	-
225(1,12) =	1	1	2	0	-2	-30	-3	-5	-25	15	3	-1	8	
225(1,13) =	1	1	-1	3	3	-45	-3	15	-5	-25	8	-7	-16	
225(2, 4) =	1	1	-1	-3	-12	0	0	0	10	-10	8	11	-4	-1
225(2, 5) =	1	1	2	0	-2	0	-3	-25	-5	-5	-2	-1	-7	
225(2, 6) =	1	1	-1	3	-2	-60	-3	-5	5	-15	3	8	14	
225(2, 7) =	1	1	-1	-3	18	0	0	0	10	10	-2	1	6	
225(2, 8) =	1	1	2	0	3	-45	-3	-15	-5	5	-7	-1	-7	
225(2, 9) =	1	1	-1	3	3	45	-3	-15	-5	5	-7	8	-1	
225(2,10) =	1	1	-1	-3	-2	0	0	-10	-20	10	-2	-4	-4	
225(2,11) =	1	1	2	0	13	15	12	10	-10	0	-12	-16	-7	
225(2,12) =	1	1	-1	3	3	45	12	0	10	10	13	-2	-6	-
225(3, 6) =	1	1	-1	-3	6	0	-9	15	-5	5	-4	2	2	
225(3, 7) =	1	1	2	0	3	45	-3	15	-5	-25	8	14	8	
225(3, 8) =	1	1	-1	3	-2	0	-3	-25	-5	-5	-2	-7	14	
225(3, 9) =	1	1	-1	-3	-14	0	6	-20	-10	0	6	2	2	
225(3,10) =	1	1	2	0	3	-45	12	0	10	10	13	4	3	-
225(3,11) =	1	1	-1	3	3	45	-3	15	25	5	-7	-7	-1	
225(4, 8) =	1	1	-1	-3	-2	0	0	10	-10	0	3	-4	-19	
225(4, 9) =	1	1	2	0	-7	15	-3	-5	15	-5	3	14	-2	
225(4,10) =	1	1	-1	3	-2	-30	-3	15	-5	15	3	3	14	
225(5,10) =	1	1	-1	-3	18	0	0	30	0	-30	18	6	6	

TABLE 54 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 0 (

	P	I	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	12	0	-9	-15	-45	15	12	9	9	4
225(0, 1) =	1	-14	2	0	-12	0	12	-20	0	-20	3	14	-7	-1
225(0, 2) =	1	-14	-1	3	-2	-30	-3	5	-5	25	-7	-12	14	-
225(0, 3) =	1	-14	-1	-3	32	0	21	15	-5	-5	2	-1	9	2
225(0, 4) =	1	-14	2	0	-2	30	-3	-15	25	15	3	-6	-12	-
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	12	0	6	10	30	10	-18	-1	-1	1
225(0, 7) =	1	-14	2	0	-2	30	-3	5	-5	25	-7	-6	-7	-
225(0, 8) =	1	-14	-1	3	8	60	-3	15	-5	-5	23	-7	-6	-1
225(0, 9) =	1	-14	-1	-3	-8	0	-9	15	-5	-15	-18	9	-6	
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-12	0	12	-20	0	-20	3	-7	-16	-1
225(0,12) =	1	-14	-1	-3	-8	0	-9	-25	25	-5	2	-6	-1	
225(0,13) =	1	-14	2	0	8	-60	-3	15	-5	-5	23	14	3	-1
225(0,14) =	1	-14	-1	3	-2	-30	-3	-15	25	15	3	3	24	-
225(1, 2) =	1	1	-1	-3	-10	0	0	10	-10	0	5	-5	-15	1
225(1, 3) =	1	1	2	0	3	15	-3	15	25	5	3	9	-2	
225(1, 4) =	1	1	-1	3	8	-60	-3	-5	-25	15	-7	-18	9	-
225(1, 5) =	1	1	-1	-3	0	0	0	-20	0	-20	0	-10	5	
225(1, 6) =	1	1	2	0	-2	30	-3	15	-5	15	3	-6	3	
225(1, 7) =	1	1	-1	3	-7	-15	12	10	-10	0	8	-2	9	-
225(1, 8) =	1	1	-1	-3	0	0	0	0	10	-10	0	15	-5	
225(1, 9) =	1	1	2	0	8	-30	-3	-5	5	-15	-7	-11	3	-
225(1,10) =	1	1	-1	3	3	-45	-3	-5	15	-5	3	-7	-1	
225(1,11) =	1	1	-1	-3	10	0	0	0	10	30	0	0	0	-1
225(1,12) =	1	1	2	0	8	60	-3	-5	-25	15	-7	-11	-12	-
225(1,13) =	1	1	-1	3	3	75	-3	15	-5	-25	-12	3	4	
225(2, 4) =	1	1	-1	-3	0	0	0	0	10	-10	0	-15	10	
225(2, 5) =	1	1	2	0	-2	-60	-3	-25	-5	-5	8	9	-7	
225(2, 6) =	1	1	-1	3	8	30	-3	-5	5	-15	-7	-2	-6	-
225(2, 7) =	1	1	-1	-3	-10	0	0	0	10	10	-10	5	0	1
225(2, 8) =	1	1	2	0	3	15	-3	-15	-5	5	3	9	13	
225(2, 9) =	1	1	-1	3	3	-15	-3	-15	-5	5	3	-12	-11	
225(2,10) =	1	1	-1	-3	10	0	0	-10	-20	10	-10	0	-10	-1
225(2,11) =	1	1	2	0	-7	15	12	10	-10	0	8	4	3	-
225(2,12) =	1	1	-1	3	-7	15	12	0	10	10	-7	8	-6	-
225(3, 6) =	1	1	-1	-3	-18	0	-9	15	-5	5	12	-6	4	-1
225(3, 7) =	1	1	2	0	3	-75	-3	15	-5	-25	-12	-6	-2	
225(3, 8) =	1	1	-1	3	-2	60	-3	-25	-5	-5	8	3	14	
225(3, 9) =	1	1	-1	-3	2	0	6	-20	-10	0	2	4	-6	-
225(3,10) =	1	1	2	0	-7	-15	12	0	10	10	-7	-16	3	-
225(3,11) =	1	1	-1	3	3	-15	-3	15	25	5	3	3	-11	
225(4, 8) =	1	1	-1	-3	-10	0	0	10	-10	0	5	10	15	1
225(4, 9) =	1	1	2	0	3	45	-3	-5	15	-5	3	14	8	
225(4,10) =	1	1	-1	3	-2	-30	-3	15	-5	15	3	3	-6	
225(5,10) =	1	1	-1	-3	30	0	0	30	0	-30	30	0	0	-3

TABLE 55: IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 1 (M

	P	I	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	0	0	-9	-15	-45	15	18	-3	15	18
225(0, 1) =	1	-14	2	0	0	0	12	-20	0	-20	3	14	-17	8
225(0, 2) =	1	-14	-1	3	4	60	-3	5	-5	25	13	8	14	-17
225(0, 3) =	1	-14	-1	-3	-30	-30	21	15	-5	-5	-2	7	15	18
225(0, 4) =	1	-14	2	0	-2	-30	-3	-15	25	15	3	-6	8	13
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-10	30	6	10	30	10	-12	-13	-5	8
225(0, 7) =	1	-14	2	0	-2	-30	-3	5	-5	25	-17	14	-7	13
225(0, 8) =	1	-14	-1	3	-6	-30	-3	15	-5	-5	13	-17	-6	-27
225(0, 9) =	1	-14	-1	-3	10	30	-9	15	-5	-15	-12	-3	-10	-2
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	14	-30	12	-20	0	-20	3	-7	-26	-22
225(0,12) =	1	-14	-1	-3	10	-30	-9	-25	25	-5	-2	2	5	-2
225(0,13) =	1	-14	2	0	-12	60	-3	15	-5	-5	13	4	3	3
225(0,14) =	1	-14	-1	3	4	0	-3	-15	25	15	3	3	14	-17
225(1, 2) =	1	1	-1	-3	7	15	0	10	-10	0	-3	-4	2	7
225(1, 3) =	1	1	2	0	3	-15	-3	15	25	5	8	-1	-7	3
225(1, 4) =	1	1	-1	3	-11	45	-3	-5	-25	15	-12	8	-1	-2
225(1, 5) =	1	1	-1	-3	2	30	0	-20	0	-20	-3	-4	7	2
225(1, 6) =	1	1	2	0	-2	-30	-3	15	-5	15	3	-6	-7	-3
225(1, 7) =	1	1	-1	3	4	0	12	10	-10	0	3	-7	14	-1
225(1, 8) =	1	1	-1	-3	-3	-15	0	0	10	-10	17	11	2	-3
225(1, 9) =	1	1	2	0	-2	30	-3	-5	5	-15	-12	-1	-7	-1
225(1,10) =	1	1	-1	3	-1	15	-3	-5	15	-5	3	-7	4	8
225(1,11) =	1	1	-1	-3	-8	30	0	0	10	30	-3	6	2	-8
225(1,12) =	1	1	2	0	-2	-60	-3	-5	-25	15	3	-16	-7	-2
225(1,13) =	1	1	-1	3	-6	-60	-3	15	-5	-25	-7	8	-1	3
225(2, 4) =	1	1	-1	-3	-3	-15	0	0	10	-10	-13	-19	2	-1
225(2, 5) =	1	1	2	0	-2	60	-3	-25	-5	-5	13	-1	-7	-1
225(2, 6) =	1	1	-1	3	-11	-45	-3	-5	5	-15	3	8	-1	-1
225(2, 7) =	1	1	-1	-3	12	-30	0	0	10	10	-8	1	-3	13
225(2, 8) =	1	1	2	0	3	-15	-3	-15	-5	5	-7	14	8	3
225(2, 9) =	1	1	-1	3	-6	30	-3	-15	-5	5	8	-7	-1	3
225(2,10) =	1	1	-1	-3	-8	-30	0	-10	-20	10	-8	-4	-13	-4
225(2,11) =	1	1	2	0	13	-15	12	10	-10	0	3	-1	8	-3
225(2,12) =	1	1	-1	3	9	15	12	0	10	10	-2	13	-6	3
225(3, 6) =	1	1	-1	-3	15	-15	-9	15	-5	5	8	2	5	-1
225(3, 7) =	1	1	2	0	3	75	-3	15	-5	-25	-7	-1	8	3
225(3, 8) =	1	1	-1	3	4	-30	-3	-25	-5	-5	-2	-7	14	1
225(3, 9) =	1	1	-1	-3	-5	15	6	-20	-10	0	3	2	-10	-1
225(3,10) =	1	1	2	0	3	15	12	0	10	10	-2	-11	3	-1
225(3,11) =	1	1	-1	3	-6	30	-3	15	25	5	-7	-7	-16	3
225(4, 8) =	1	1	-1	-3	7	15	0	10	-10	0	12	11	2	-3
225(4, 9) =	1	1	2	0	-7	-45	-3	-5	15	-5	3	14	13	-3
225(4,10) =	1	1	-1	3	4	0	-3	15	-5	15	3	3	-1	1
225(5,10) =	1	1	-1	-3	-18	0	0	30	0	-30	27	6	-3	-1

TABLE 56: IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 1 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-24	0	-9	-15	-45	15	30	9	-9	-30
225(0, 1) =	1	-14	2	0	-12	-60	12	-20	0	-20	3	14	23	-12
225(0, 2) =	1	-14	-1	3	4	-60	-3	5	-5	25	-7	-12	14	23
225(0, 3) =	1	-14	-1	-3	26	-30	21	15	-5	-5	-10	-1	-9	10
225(0, 4) =	1	-14	2	0	-2	-30	-3	-15	25	15	3	-6	-12	-7
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	6	30	6	10	30	10	0	-1	11	0
225(0, 7) =	1	-14	2	0	-2	90	-3	5	-5	25	23	-6	-7	-7
225(0, 8) =	1	-14	-1	3	14	30	-3	15	-5	-5	-7	23	-6	13
225(0, 9) =	1	-14	-1	-3	-14	30	-9	15	-5	-15	0	9	6	-10
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-6	30	12	-20	0	-20	3	-7	14	18
225(0,12) =	1	-14	-1	-3	-14	-30	-9	-25	25	-5	-10	-6	-19	-10
225(0,13) =	1	-14	2	0	8	0	-3	15	-5	-5	-7	-16	3	-17
225(0,14) =	1	-14	-1	3	4	0	-3	-15	25	15	3	3	-6	23
225(1, 2) =	1	1	-1	-3	-1	15	0	10	-10	0	11	10	-6	1
225(1, 3) =	1	1	2	0	3	45	-3	15	25	5	-12	9	13	3
225(1, 4) =	1	1	-1	3	-1	-45	-3	-5	-25	15	8	-2	9	-2
225(1, 5) =	1	1	-1	-3	-6	30	0	-20	0	-20	-9	-10	-1	6
225(1, 6) =	1	1	2	0	-2	-30	-3	15	-5	15	3	-6	3	8
225(1, 7) =	1	1	-1	3	-16	0	12	10	-10	0	-7	13	-6	-2
225(1, 8) =	1	1	-1	-3	9	-15	0	0	10	-10	-9	-15	4	-9
225(1, 9) =	1	1	2	0	8	-60	-3	-5	5	-15	8	-11	3	-2
225(1,10) =	1	1	-1	3	9	-15	-3	-5	15	-5	3	-2	-16	-12
225(1,11) =	1	1	-1	-3	4	30	0	0	10	30	-9	0	-6	-4
225(1,12) =	1	1	2	0	8	30	-3	-5	-25	15	-7	4	3	-2
225(1,13) =	1	1	-1	3	-6	60	-3	15	-5	-25	3	-12	-11	3
225(2, 4) =	1	1	-1	-3	9	-15	0	0	10	-10	21	15	4	-9
225(2, 5) =	1	1	2	0	-2	0	-3	-25	-5	-5	-7	9	-7	8
225(2, 6) =	1	1	-1	3	-1	45	-3	-5	5	-15	-7	-2	9	-2
225(2, 7) =	1	1	-1	-3	-16	-30	0	0	10	10	-4	5	9	16
225(2, 8) =	1	1	2	0	3	45	-3	-15	-5	5	3	-6	-2	3
225(2, 9) =	1	1	-1	3	-6	-30	-3	-15	-5	5	-12	3	-11	3
225(2,10) =	1	1	-1	-3	4	-30	0	-10	-20	10	-4	0	-1	-4
225(2,11) =	1	1	2	0	-7	-15	12	10	-10	0	-7	-11	-12	-2
225(2,12) =	1	1	-1	3	-1	-15	12	0	10	10	3	-7	-6	-12
225(3, 6) =	1	1	-1	-3	-9	-15	-9	15	-5	5	0	-6	1	6
225(3, 7) =	1	1	2	0	3	-45	-3	15	-5	-25	3	9	-2	3
225(3, 8) =	1	1	-1	3	4	30	-3	-25	-5	-5	3	3	14	-2
225(3, 9) =	1	1	-1	-3	11	15	6	-20	-10	0	5	4	6	16
225(3,10) =	1	1	2	0	-7	45	12	0	10	10	3	-1	3	-2
225(3,11) =	1	1	-1	3	-6	-30	-3	15	25	5	3	3	4	3
225(4, 8) =	1	1	-1	-3	-1	15	0	10	-10	0	-4	-5	-6	1
225(4, 9) =	1	1	2	0	3	-15	-3	-5	15	-5	3	14	-7	3
225(4,10) =	1	1	-1	3	4	0	-3	15	-5	15	3	3	9	-2
225(5,10) =	1	1	-1	-3	-6	0	0	30	0	-30	21	0	9	6

TABLE 57 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 2 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	0	0	-9	-15	-45	15	18	15	-3	18
225(0, 1) =	1	-14	2	0	14	30	12	-20	0	-20	3	14	13	-22
225(0, 2) =	1	-14	-1	3	-2	30	-3	5	-5	25	-17	-22	14	13
225(0, 3) =	1	-14	-1	-3	-30	30	21	15	-5	-5	-2	-5	-3	18
225(0, 4) =	1	-14	2	0	4	0	-3	-15	25	15	3	-6	-22	-17
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-10	-30	6	10	30	10	-12	5	7	8
225(0, 7) =	1	-14	2	0	4	-60	-3	5	-5	25	13	-16	-7	-17
225(0, 8) =	1	-14	-1	3	-12	-60	-3	15	-5	-5	13	13	-6	3
225(0, 9) =	1	-14	-1	-3	10	-30	-9	15	-5	-15	-12	15	2	-2
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	8	0	12	-20	0	-20	3	-7	4	8
225(0,12) =	1	-14	-1	-3	10	30	-9	-25	25	-5	-2	-10	-13	-2
225(0,13) =	1	-14	2	0	-6	30	-3	15	-5	-5	13	4	3	-27
225(0,14) =	1	-14	-1	3	-2	30	-3	-15	25	15	3	3	14	13
225(1, 2) =	1	1	-1	-3	7	-15	0	10	-10	0	12	2	-19	7
225(1, 3) =	1	1	2	0	-6	-30	-3	15	25	5	-7	14	8	3
225(1, 4) =	1	1	-1	3	-2	60	-3	-5	-25	15	3	8	14	-2
225(1, 5) =	1	1	-1	-3	2	-30	0	-20	0	-20	-3	-13	1	2
225(1, 6) =	1	1	2	0	4	0	-3	15	-5	15	3	-6	8	13
225(1, 7) =	1	1	-1	3	13	15	12	10	-10	0	2	3	-1	-2
225(1, 8) =	1	1	-1	-3	-3	15	0	0	10	-10	-13	2	-4	-3
225(1, 9) =	1	1	2	0	-11	45	-3	-5	5	-15	3	-16	8	-2
225(1,10) =	1	1	-1	3	-7	45	-3	-5	15	-5	2	-7	-11	-7
225(1,11) =	1	1	-1	-3	-8	-30	0	0	10	30	-3	-3	-4	-8
225(1,12) =	1	1	2	0	-11	-45	-3	-5	-25	15	-12	-1	-7	-2
225(1,13) =	1	1	-1	0	2	-75	-3	15	-5	-25	-7	-7	-1	3
225(2, 4) =	1	1	-1	-3	-3	15	0	0	10	-10	17	2	11	-3
225(2, 5) =	1	1	2	0	4	30	-3	-25	-5	-5	-2	14	-7	13
225(2, 6) =	1	1	-1	3	-2	-30	-3	-5	5	-15	-12	-7	-1	-2
225(2, 7) =	1	1	-1	-3	12	30	0	0	10	10	-8	7	6	12
225(2, 8) =	1	1	2	0	-6	-30	-3	-15	-5	5	8	-1	8	-3
225(2, 9) =	1	1	-1	3	3	15	-3	-15	-5	5	-7	-7	-16	3
225(2,10) =	1	1	-1	-3	-8	30	0	-10	-20	10	-8	2	-4	-8
225(2,11) =	1	1	2	0	4	0	12	10	-10	0	3	-1	-7	-2
225(2,12) =	1	1	-1	3	3	-15	12	0	10	10	-2	-2	-6	-12
225(3, 6) =	1	1	-1	-3	15	15	-9	15	-5	5	8	-10	2	-12
225(3, 7) =	1	1	2	0	-6	60	-3	15	-5	-25	-7	-1	-7	3
225(3, 8) =	1	1	-1	3	-2	-60	-3	-25	-5	-5	13	8	14	-2
225(3, 9) =	1	1	-1	-3	-5	-15	6	-20	-10	0	3	5	2	-2
225(3,10) =	1	1	2	0	9	-15	12	0	10	10	-2	-11	3	1
225(3,11) =	1	1	-1	3	3	15	-3	15	25	5	8	8	-1	1
225(4, 8) =	1	1	-1	-3	7	-15	0	10	-10	0	-3	2	11	1
225(4, 9) =	1	1	2	0	-1	-15	-3	-5	15	-5	3	14	-2	1
225(4,10) =	1	1	-1	3	-2	30	-3	15	-5	15	3	3	-1	-2
225(5,10) =	1	1	-1	-3	-18	0	0	30	0	-30	27	-3	6	-12

TABLE 58 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 2 (MOD 5), IND 5 = 2 (

	P	L	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-24	0	-9	-15	-45	15	30	-9	9	-30
225(0, 1) =	1	-14	2	0	-6	-30	12	-20	0	-20	3	14	-7	10
225(0, 2) =	1	-14	-1	3	-2	-90	-3	5	-5	25	23	18	14	-3
225(0, 3) =	1	-14	-1	-3	26	30	21	15	-5	-5	-10	11	9	10
225(0, 4) =	1	-14	2	0	4	0	-3	-15	25	15	3	-6	18	23
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	6	-30	6	10	30	10	0	-19	-1	6
225(0, 7) =	1	-14	2	0	4	60	-3	5	-5	25	-7	24	-7	23
225(0, 8) =	1	-14	-1	3	8	0	-3	15	-5	-5	-7	-7	-6	-17
225(0, 9) =	1	-14	-1	-3	-14	-30	-9	15	-5	-15	0	-9	-6	-19
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-12	60	12	-20	0	-20	3	-7	-16	-13
225(0,12) =	1	-14	-1	-3	-14	30	-9	-25	25	-5	-10	6	-1	-19
225(0,13) =	1	-14	2	0	14	-30	-3	15	-5	-5	-7	-16	3	1
225(0,14) =	1	-14	-1	3	-2	30	-3	-15	25	15	3	3	-6	-
225(1, 2) =	1	1	-1	-3	-1	-15	0	10	-10	0	-4	4	15	
225(1, 3) =	1	1	2	0	-6	30	-3	15	25	5	3	-6	-2	
225(1, 4) =	1	1	-1	3	6	-30	-3	-5	-25	15	-7	-2	-6	-1
225(1, 5) =	1	1	-1	-3	-6	-30	0	-20	0	-20	-9	-1	5	
225(1, 6) =	1	1	2	0	4	0	-3	15	-5	15	3	-6	-12	-
225(1, 7) =	1	1	-1	3	-7	15	12	10	-10	0	-7	-2	9	-
225(1, 8) =	1	1	-1	-3	9	15	0	0	10	-10	21	-6	10	-
225(1, 9) =	1	1	2	0	-1	-45	-3	-5	5	-15	-7	4	-12	-
225(1,10) =	1	1	-1	3	3	15	-3	-5	15	-5	3	-7	-1	
225(1,11) =	1	1	-1	-3	4	-30	0	0	10	30	-9	9	0	-
225(1,12) =	1	1	2	0	-1	45	-3	-5	-25	15	8	-11	3	-
225(1,13) =	1	1	-1	3	3	45	-3	15	-5	-25	3	3	-11	
225(2, 4) =	1	1	-1	-3	9	15	0	0	10	-10	-9	-6	-5	-
225(2, 5) =	1	1	2	0	4	-30	-3	-25	-5	-5	8	-6	-7	-
225(2, 6) =	1	1	-1	3	8	60	-3	-5	5	-15	8	13	9	-
225(2, 7) =	1	1	-1	-3	-16	30	0	0	10	10	-4	-1	0	1
225(2, 8) =	1	1	2	0	-6	30	-3	-15	-5	5	-12	9	-2	
225(2, 9) =	1	1	-1	3	3	-45	-3	-15	-5	5	3	3	4	
225(2,10) =	1	1	-1	-3	4	30	0	-10	-20	10	-4	-6	-10	-
225(2,11) =	1	1	2	0	-16	0	12	10	-10	0	-7	-11	3	-
225(2,12) =	1	1	-1	3	-7	-45	12	0	10	10	8	8	-6	-
225(3, 6) =	1	1	-1	-3	-9	15	-9	15	-5	5	0	6	4	
225(3, 7) =	1	1	2	0	-6	-60	-3	15	-5	-25	3	9	13	
225(3, 8) =	1	1	-1	3	-2	0	-3	-25	-5	-5	-7	-12	14	
225(3, 9) =	1	1	-1	-3	11	-15	6	-20	-10	0	5	1	-6	1
225(3,10) =	1	1	2	0	-1	15	12	0	10	10	8	-1	3	-1
225(3,11) =	1	1	-1	3	3	-45	-3	15	25	5	-12	-12	-11	
225(4, 8) =	1	1	-1	-3	-1	-15	0	10	-10	0	11	4	-15	
225(4, 9) =	1	1	2	0	9	15	-3	-5	15	-5	3	14	8	-1
225(4,10) =	1	1	-1	3	-2	30	-3	15	-5	15	3	3	9	
225(5,10) =	1	1	-1	-3	-6	0	0	30	0	-30	21	9	0	

TABLE 59 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 0 (M

	F	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	36	0	21	15	-15	-15	36	-3	27	6
225(0, 1) =	1	-14	2	0	-2	30	2	-10	30	10	3	24	-17	8
225(0, 2) =	1	-14	-1	3	-12	0	-3	5	-5	-15	-17	-2	24	3
225(0, 3) =	1	-14	-1	-3	16	0	1	15	35	15	-14	-3	7	26
225(0, 4) =	1	-14	2	0	8	60	-3	5	-15	35	3	-26	-22	-17
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	16	0	-4	20	0	-20	6	-3	7	-4
225(0, 7) =	1	-14	2	0	-12	0	-2	5	-5	-15	-17	4	-27	3
225(0, 8) =	1	-14	-1	3	-2	90	7	-15	5	-15	13	3	4	-7
225(0, 9) =	1	-14	-1	-3	-4	0	-9	-25	15	5	6	7	2	-14
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	-30	2	-10	30	10	3	3	4	8
225(0,12) =	1	-14	-1	-3	-24	0	-9	-25	-35	15	-14	-8	-3	6
225(0,13) =	1	-14	2	0	-2	-90	7	-15	5	-15	13	-6	-17	-7
225(0,14) =	1	-14	-1	3	8	-60	-3	5	-15	35	3	13	14	-17
225(1, 2) =	1	1	-1	-3	-2	0	0	0	-10	-10	3	-14	1	6
225(1, 3) =	1	1	2	0	3	45	-8	20	-10	-10	8	9	3	1
225(1, 4) =	1	1	-1	3	-2	30	12	0	-10	-10	3	13	4	-7
225(1, 5) =	1	1	-1	-3	-3	0	5	-25	15	-5	-12	-9	1	6
225(1, 6) =	1	1	2	0	-7	15	-3	5	15	5	3	4	8	15
225(1, 7) =	1	1	-1	3	-2	-60	-3	15	5	5	3	-2	4	-1
225(1, 8) =	1	1	-1	-3	-12	0	-5	5	5	5	8	-9	6	-1
225(1, 9) =	1	1	2	0	13	15	-3	-15	-25	5	-12	4	-2	1
225(1,10) =	1	1	-1	3	-2	-30	2	-10	0	-20	3	-12	-11	-1
225(1,11) =	1	1	-1	-3	8	0	0	20	0	20	-12	1	-4	-1
225(1,12) =	1	1	2	0	-2	-30	12	0	-10	-10	3	-11	-2	-1
225(1,13) =	1	1	-1	3	3	45	-8	-10	20	-10	-7	3	-6	-1
225(2, 4) =	1	1	-1	-3	-12	0	-5	5	5	5	8	6	6	-1
225(2, 5) =	1	1	2	0	3	-45	-3	-25	-5	15	13	4	3	
225(2, 6) =	1	1	-1	3	13	-15	-3	-15	-25	5	-12	-2	4	
225(2, 7) =	1	1	-1	-3	-2	0	10	0	-10	0	-2	6	1	
225(2, 8) =	1	1	2	0	3	-45	7	5	5	5	-7	9	3	
225(2, 9) =	1	1	-1	3	3	45	7	5	5	5	-7	-12	-6	
225(2,10) =	1	1	-1	-3	18	0	0	-10	10	0	-2	1	-9	-1
225(2,11) =	1	1	2	0	-2	60	-3	15	5	5	3	-11	-2	-1
225(2,12) =	1	1	-1	3	-2	0	7	15	5	15	-2	3	-11	-1
225(3, 6) =	1	1	-1	-3	6	0	1	5	5	-25	-4	-3	-3	-1
225(3, 7) =	1	1	2	0	3	-45	-8	-10	20	-10	-7	-6	3	-1
225(3, 8) =	1	1	-1	3	3	45	-3	-25	-5	15	13	-2	9	
225(3, 9) =	1	1	-1	-3	-14	0	6	0	-10	20	6	7	-8	
225(3,10) =	1	1	2	0	-2	0	7	15	5	15	-2	-6	13	
225(3,11) =	1	1	-1	3	3	-45	-8	20	-10	-10	8	3	-6	
225(4, 8) =	1	1	-1	-3	-2	0	0	0	-10	-10	3	16	1	
225(4, 9) =	1	1	2	0	-2	30	2	-10	0	-20	3	9	13	
225(4,10) =	1	1	-1	3	-7	-15	-3	5	15	5	3	-2	-1	
225(5,10) =	1	1	-1	-3	18	0	-15	15	-15	-15	18	6	-9	

TABLE 60 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 0 (M

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	12	0	21	15	-15	-15	12	9	-21	-18
225(0, 1) =	1	-14	2	0	-2	30	2	-10	30	10	3	4	23	-12
225(0, 2) =	1	-14	-1	3	8	60	-3	5	-5	-15	23	-2	4	3
225(0, 3) =	1	-14	-1	-3	-8	0	1	15	35	15	2	9	-1	2
225(0, 4) =	1	-14	2	0	-12	0	-3	5	-15	35	3	14	18	23
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-8	0	-4	20	0	-20	-18	-11	-1	12
225(0, 7) =	1	-14	2	0	8	-60	-3	5	-5	-15	23	4	13	3
225(0, 8) =	1	-14	-1	3	-2	-30	7	-15	5	-15	-7	3	-16	-7
225(0, 9) =	1		-1	-3	12	0	-9	-25	15	5	-18	-1	-6	2
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-2	-30	2	-10	30	10	3	-17	-16	-12
225(0,12) =	1	-14	-1	-3	32	0	-9	-25	-35	15	2	4	-11	-18
225(0,13) =	1	-14	2	0	-2	30	7	-15	5	-15	-7	-6	23	-1
225(0,14) =	1	-14	-1	3	-12	0	-3	5	-15	35	3	-7	-6	23
225(1, 2) =	1	1	-1	-3	-10	0	0	0	-10	-10	5	20	-5	0
225(1, 3) =	1	1	2	0	3	-75	-8	20	-10	-10	-12	-1	3	-1
225(1, 4) =	1	1	-1	3	8	-60	12	0	-10	-10	-7	-7	4	3
225(1, 5) =	1	1	-1	-3	10	0	5	-25	15	-5	0	-5	5	0
225(1, 6) =	1	1	2	0	3	45	-3	5	15	5	3	-16	-12	-1
225(1, 7) =	1	1	-1	3	8	30	-3	15	5	5	-7	8	4	1
225(1, 8) =	1	1	-1	-3	0	0	-5	5	5	5	0	5	0	-5
225(1, 9) =	1	1	2	0	-7	15	-3	-15	-25	5	8	-16	-2	-12
225(1,10) =	1	1	-1	3	-2	-30	2	-10	0	-20	2	-2	-1	1
225(1,11) =	1	1	-1	-3	0	0	0	20	0	20	0	5	0	-10
225(1,12) =	1	1	2	0	8	60	12	0	-10	-10	-7	-1	-2	3
225(1,13) =	1	1	-1	3	3	-15	-8	-10	20	-10	3	-7	-6	13
225(2, 4) =	1	1	-1	-3	0	0	-5	5	5	5	0	-10	0	-3
225(2, 5) =	1	1	2	0	-7	-15	-3	-25	-5	15	-7	4	-17	4
225(2, 6) =	1	1	-1	3	-7	-15	-3	-15	-25	5	8	8	4	-12
225(2, 7) =	1	1	-1	-3	10	0	10	0	-10	0	-10	0	5	20
225(2, 8) =	1	1	2	0	3	15	7	5	5	5	3	-1	3	-1
225(2, 9) =	1	1	-1	3	3	-15	7	5	5	5	3	8	-6	-1
225(2,10) =	1	1	-1	-3	-10	0	0	-10	10	0	-10	-5	-5	0
225(2,11) =	1	1	2	0	8	-30	-3	15	5	5	-7	-1	-2	1
225(2,12) =	1	1	-1	3	-2	60	7	15	5	15	8	3	-1	-1
225(3, 6) =	1	1	-1	-3	-18	0	1	5	5	-25	12	-1	9	-5
225(3, 7) =	1	1	2	0	3	15	-8	-10	20	-10	3	14	3	13
225(3, 8) =	1	1	-1	3	-7	15	-3	-25	-5	15	-7	-2	19	0
225(3, 9) =	1	1	-1	-3	[illegible]	0	6	0	-10	20	2	-1	4	13
225(3,10) =	1	1	2	0	[illegible]	-60	7	15	5	15	8	-6	-7	-1
225(3,11) =	1	1	-1	3	3	75	-8	20	-10	-10	-12	-7	-6	-1
225(4, 8) =	1	1	-1	-3	-10	0	0	0	-10	-10	5	-10	-5	0
225(4, 9) =	1	1	2	0	-2	30	2	-10	0	-20	3	19	-7	1
225(4,10) =	1	1	-1	3	3	-45	-3	5	15	5	3	8	9	-1
225(5,10) =	1	1	-1	-3	30	0	-15	15	-15	-15	30	0	15	0

TABLE 61 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 1 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	0	0	21	15	-15	-15	18	-3	-45	-1
225(0, 1) =	1	-14	2	0	-2	-30	2	-10	30	10	3	24	13	-2
225(0, 2) =	1	-14	-1	3	-6	-30	-3	5	-5	-15	13	-2	24	
225(0, 3) =	1	-14	-1	-3	10	-30	1	15	35	15	-2	-3	-5	
225(0, 4) =	1	-14	2	0	8	0	-3	5	-15	35	3	4	8	1
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	10	30	-4	20	0	-20	-12	-3	-5	
225(0, 7) =	1	-14	2	0	-12	60	-3	5	-5	-15	13	4	3	
225(0, 8) =	1	-14	-1	3	4	60	7	-15	5	-15	13	3	4	-
225(0, 9) =	1	-14	-1	-3	-10	30	-9	-25	15	5	-12	7	-10	-
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	4	0	2	-10	30	10	3	3	4	
225(0,12) =	1	-14	-1	-3	-30	-30	-3	-25	-35	15	-2	-8	-15	-1
225(0,13) =	1	-14	2	0	-2	-30	7	-15	5	-15	-17	-6	13	-
225(0,14) =	1	-14	-1	3	14	-30	-3	5	-15	35	3	-17	14	1
225(1, 2) =	1	1	-1	-3	7	15	0	0	-10	-10	12	16	-8	1
225(1, 3) =	1	1	2	0	3	75	-8	20	-10	-10	-7	9	3	-
225(1, 4) =	1	1	-1	3	-11	45	12	0	-10	-10	-12	-2	4	
225(1, 5) =	1	1	-1	-3	-8	30	5	-25	15	-5	-3	-9	7	
225(1, 6) =	1	1	2	0	-7	-45	-3	5	15	5	3	-11	-7	-
225(1, 7) =	1	1	-1	3	-11	-45	-3	15	5	5	3	-2	4	-
225(1, 8) =	1	1	-1	-3	-3	-15	-5	5	5	5	-13	6	-3	-
225(1, 9) =	1	1	2	0	13	-15	-3	-15	-25	5	3	-11	-2	-
225(1,10) =	1	1	-1	3	4	0	2	-10	0	-20	3	-12	-11	-
225(1,11) =	1	1	-1	-3	2	30	0	20	0	20	-3	1	2	-
225(1,12) =	1	1	2	0	-2	-60	12	0	-10	-10	3	4	-2	-
225(1,13) =	1	1	-1	3	-6	30	-8	-10	20	-10	-7	-12	-6	-
225(2, 4) =	1	1	-1	-3	-3	-15	-5	5	5	5	17	-9	-3	-1
225(2, 5) =	1	1	2	0	3	15	-3	-25	-5	15	-2	4	-12	
225(2, 6) =	1	1	-1	3	4	0	-3	-15	-25	5	3	13	4	
225(2, 7) =	1	1	-1	-3	-8	-30	10	0	-10	0	-8	6	7	
225(2, 8) =	1	1	2	0	3	-15	7	5	5	5	-7	-6	3	
225(2, 9) =	1	1	-1	3	-6	30	7	5	5	5	3	3	-6	
225(2,10) =	1	1	-1	-3	12	-30	0	-10	10	0	-8	1	-3	
225(2,11) =	1	1	2	0	-2	30	-3	15	5	5	-12	-11	-2	
225(2,12) =	1	1	-1	3	4	-30	7	15	5	15	-2	3	-11	
225(3, 6) =	1	1	-1	-3	15	-15	1	5	5	-25	8	-3	15	
225(3, 7) =	1	1	2	0	3	-15	-8	-10	20	-10	8	9	3	
225(3, 8) =	1	1	-1	3	9	15	-3	-25	-5	15	-2	-2	9	
225(3, 9) =	1	1	-1	-3	-5	15	6	0	-10	20	3	7	10	
225(3,10) =	1	1	2	0	-2	60	7	15	5	15	13	-6	-2	
225(3,11) =	1	1	-1	3	-6	-60	-8	20	-10	-10	-7	3	-6	
225(4, 8) =	1	1	-1	-3	7	15	0	0	-10	-10	-3	-14	-8	-
225(4, 9) =	1	1	2	0	-2	-30	2	-10	0	-20	3	9	-2	
225(4,10) =	1	1	-1	3	-1	15	-3	5	15	5	3	13	-1	
225(5,10) =	1	1	-1	-3	-18	0	-15	15	-15	-15	27	6	27	

TABLE 62 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 1 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	-24	0	21	15	-15	-15	30	9	51	
225(0, 1) =	1	-14	2	0	-2	-30	3	-10	30	10	3	4	-7	1
225(0, 2) =	1	-14	-1	3	14	30	-3	5	-5	-15	-7	-2	4	
225(0, 3) =	1	-14	-1	-3	-14	-30	1	15	35	15	-10	9	11	2
225(0, 4) =	1	-14	2	0	-12	-60	-3	5	-15	35	3	-16	-12	-
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-14	30	-4	20	0	-20	0	-11	11	
225(0, 7) =	1	-14	2	0	8	0	-3	5	-5	-15	-7	4	-17	
225(0, 8) =	1	-14	-1	3	4	-60	7	-15	5	-15	-7	3	-16	-
225(0, 9) =	1	-14	-1	-3	6	30	-9	-25	15	5	0	-1	6	-1
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	4	0	2	-10	30	10	3	-17	-16	-1
225(0,12) =	1	-14	-1	-3	26	-30	-9	-25	-35	15	-10	4	1	
225(0,13) =	1	-14	2	0	-2	90	7	-15	5	-15	23	-6	-7	-
225(0,14) =	1	-14	-1	3	-6	30	-3	5	-15	35	3	23	-6	
225(1, 2) =	1	1	-1	-3	-1	15	0	0	-10	-10	-4	-10	4	
225(1, 3) =	1	1	2	0	3	-45	-8	20	-10	-10	3	-1	3	1
225(1, 4) =	1	1	-1	3	-1	-45	12	0	-10	-10	8	8	4	-1
225(1, 5) =	1	1	-1	-3	4	30	5	-25	15	-5	-9	-5	-1	
225(1, 6) =	1	1	2	0	3	-15	-3	5	15	5	3	-1	3	
225(1, 7) =	1	1	-1	3	-1	45	-3	15	5	5	-7	8	4	
225(1, 8) =	1	1	-1	-3	9	-15	-5	5	5	5	21	-10	9	-1
225(1, 9) =	1	1	2	0	-7	-15	-3	-15	-25	5	-7	-1	-2	
225(1,10) =	1	1	-1	3	4	0	2	-10	0	-20	3	-2	-1	
225(1,11) =	1	1	-1	-3	-6	30	0	20	0	20	-9	5	-6	-
225(1,12) =	1	1	2	0	8	30	12	0	-10	-10	-7	-16	-2	
225(1,13) =	1	1	-1	3	-6	-30	-8	-10	20	-10	3	8	-6	
225(2, 4) =	1	1	-1	-3	9	-15	-5	5	5	5	-9	5	9	
225(2, 5) =	1	1	2	0	-7	45	-3	-25	-5	15	8	4	-2	
225(2, 6) =	1	1	-1	3	-16	0	-3	-15	-25	5	-7	-7	4	
225(2, 7) =	1	1	-1	-3	4	-30	10	0	-10	0	-4	0	-1	
225(2, 8) =	1	1	2	0	3	45	7	5	5	5	3	14	3	
225(2, 9) =	1	1	-1	3	-6	-30	7	5	5	5	-12	-7	-6	
225(2,10) =	1	1	-1	-3	-16	-30	0	-10	10	0	-4	-5	-11	
225(2,11) =	1	1	2	0	8	-60	-3	15	5	5	8	-1	-2	-
225(2,12) =	1	1	-1	3	4	30	7	15	5	15	8	3	-1	
225(3, 6) =	1	1	-1	-3	-9	-15	1	5	5	-25	0	-1	-9	
225(3, 7) =	1	1	2	0	3	45	-8	-10	20	-10	-12	-1	3	
225(3, 8) =	1	1	-1	3	-1	-15	-3	-25	-5	15	8	-2	19	
225(3, 9) =	1	1	-1	-3	11	15	6	0	-10	20	3	-1	-14	
225(3,10) =	1	1	2	0	-2	0	7	15	5	15	-7	-6	8	
225(3,11) =	1	1	-1	3	-6	60	-8	20	-10	-10	3	-7	-6	
225(4, 8) =	1	1	-1	-3	-1	15	0	0	-10	-10	11	20	4	
225(4, 9) =	1	1	2	0	-2	-30	2	-10	0	-20	3	19	8	-
225(4,10) =	1	1	-1	3	9	-15	-3	5	15	5	3	-7	9	
225(5,10) =	1	1	-1	-3	-6	0	-15	15	-15	-15	21	0	-21	

TABLE 63 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 3 (MOD 5), IND 5 = 2 (

	P	I	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	0	0	21	15	-15	-15	18	15	27	-1
225(0, 1) =	1	-14	2	0	4	0	2	-10	30	10	3	-6	13	
225(0, 2) =	1	-14	-1	3	-12	-60	-3	5	-5	-15	13	-2	-6	
225(0, 3) =	1	-14	-1	-3	10	30	1	15	35	15	-2	15	7	
225(0, 4) =	1	-14	2	0	14	30	-3	5	-15	35	3	4	8	1
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	10	-30	-4	20	0	-20	-12	-15	7	
225(0, 7) =	1	-14	2	0	-6	30	-3	5	-5	-15	13	4	3	
225(0, 8) =	1	-14	-1	3	-2	30	7	-15	5	-15	-17	3	-26	-
225(0, 9) =	1	-14	-1	-3	-10	-30	-9	-25	15	5	-12	-5	2	-
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	30	2	-10	30	10	3	-27	-26	-2
225(0,12) =	1	-14	-1	-3	-30	30	-9	-25	-35	45	-2	10	-3	-1
225(0,13) =	1	-14	2	0	4	-60	7	-15	5	-15	13	-6	13	-
225(0,14) =	1	-14	-1	3	8	0	-3	5	-15	35	3	13	-16	1
225(1, 2) =	1	1	-1	-3	7	-15	0	0	-10	-10	-3	7	1	-1
225(1, 3) =	1	1	2	0	-6	60	-8	20	-10	-10	-7	-6	3	
225(1, 4) =	1	1	-1	3	-2	60	12	0	-10	-10	3	-2	4	-
225(1, 5) =	1	1	-1	-3	-8	-30	5	-25	15	-5	-3	-3	1	
225(1, 6) =	1	1	2	0	-1	-15	-3	5	15	5	3	-11	-7	-
225(1, 7) =	1	1	-1	3	-2	-30	-3	15	5	5	-12	13	4	
225(1, 8) =	1	1	-1	-3	-3	15	-5	5	5	5	17	-3	6	-1
225(1, 9) =	1	1	2	0	4	0	-3	-15	-25	5	3	-11	-2	-
225(1,10) =	1	1	-1	3	-2	30	2	-10	0	-20	3	3	4	
225(1,11) =	1	1	-1	-3	2	-30	0	20	0	20	-3	7	-4	-
225(1,12) =	1	1	2	0	-11	-45	12	0	-10	-10	-12	-11	-2	
225(1,13) =	1	1	-1	3	3	15	-8	-10	20	-10	8	3	-6	
225(2, 4) =	1	1	-1	-3	-3	15	-5	5	5	5	-13	-3	6	
225(2, 5) =	1	1	2	0	9	-15	-3	-25	-5	15	-2	4	-12	
225(2, 6) =	1	1	-1	3	13	15	-3	-15	-25	5	3	-2	4	-
225(2, 7) =	1	1	-1	-3	-8	30	10	0	-10	0	-8	-3	1	1
225(2, 8) =	1	1	2	0	-6	-30	7	5	5	5	8	9	3	-
225(2, 9) =	1	1	-1	3	3	15	7	5	5	5	-7	3	-6	
225(2,10) =	1	1	-1	-3	12	30	0	-10	10	0	-8	-8	-9	-
225(2,11) =	1	1	2	0	-11	45	-3	15	5	5	3	4	-2	-
225(2,12) =	1	1	-1	3	-2	-60	7	15	5	15	13	3	4	-
225(3, 6) =	1	1	-1	-3	15	15	1	5	5	-25	8	0	-3	-
225(3, 7) =	1	1	2	0	-6	-30	-8	-10	20	-10	-7	9	3	
225(3, 8) =	1	1	-1	3	3	-15	-3	-25	-5	15	-2	-2	24	
225(3, 9) =	1	1	-1	-3	-5	-15	6	0	-10	20	3	-5	-8	
225(3,10) =	1	1	2	0	4	30	7	15	5	15	-2	-6	-2	-
225(3,11) =	1	1	-1	3	3	-75	-8	20	-10	-10	-7	-12	-6	-
225(4, 8) =	1	1	-1	-3	7	-15	0	0	-10	-10	12	7	1	-
225(4, 9) =	1	1	2	0	4	0	2	-10	0	-20	3	24	-2	-
225(4,10) =	1	1	-1	3	-7	45	-3	5	15	5	3	-2	14	-
225(5,10) =	1	1	-1	-3	-18	0	-15	15	-15	-15	27	-3	-9	-

TABLE 64 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 2 = 2 (MOD 5), IND 5 = 2 (

	P	L	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-24	0	21	15	-15	-15	30	-9	-21	
225(0, 1) =	1	-14	2	0	4	0	2	-10	30	10	3	34	-7	-1
225(0, 2) =	1	-14	-1	3	8	0	-3	5	-5	-15	-7	-2	34	
225(0, 3) =	1	-14	-1	-3	-14	30	1	15	35	15	-10	-9	-1	2
225(0, 4) =	1	-14	2	0	-6	-30	-3	5	-15	35	3	-16	-12	-
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-14	-30	-4	20	0	-20	0	1	-1	
225(0, 7) =	1	-14	2	0	14	-30	-3	5	-5	-15	-7	4	-17	
225(0, 8) =	1	-14	-1	3	-2	-90	7	-15	5	-15	23	3	14	-
225(0, 9) =	1	-14	-1	-3	6	-30	-9	-25	15	5	0	11	-6	-1
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-2	30	2	-10	30	10	3	13	14	1
225(0,12) =	1	-14	-1	-3	26	30	-9	-25	-35	15	-10	-14	-11	
225(0,13) =	1	-14	2	0	4	60	7	-15	5	-15	-7	-6	-7	-
225(0,14) =	1	-14	-1	3	-12	60	-3	5	-15	35	3	-7	24	-
225(1, 2) =	1	1	-1	-3	-1	-15	0	0	-10	-10	11	-1	-5	2
225(1, 3) =	1	1	2	0	-6	-60	-8	20	-10	-10	3	14	3	-
225(1, 4) =	1	1	-1	3	8	-30	12	0	-10	-10	-7	8	4	
225(1, 5) =	1	1	-1	-3	4	-30	5	-25	15	-5	-9	-11	5	
225(1, 6) =	1	1	2	0	9	15	-3	5	15	5	3	-1	3	
225(1, 7) =	1	1	-1	3	8	60	-3	15	5	5	8	-7	4	-1
225(1, 8) =	1	1	-1	-3	9	15	-5	5	5	5	-9	-1	0	
225(1, 9) =	1	1	2	0	-16	0	-3	-15	-25	5	-7	-1	-2	
225(1,10) =	1	1	-1	3	-2	30	2	-10	0	-20	3	-17	-16	-1
225(1,11) =	1	1	-1	-3	-6	-30	0	20	0	20	-9	-1	0	-
225(1,12) =	1	1	2	0	-1	45	12	0	-10	-10	8	-1	-2	-1
225(1,13) =	1	1	-1	3	3	-45	-8	-10	20	-10	-12	-7	-6	-
225(2, 4) =	1	1	-1	-3	9	15	-5	5	5	5	21	-1	0	-1
225(2, 5) =	1	1	2	0	-1	15	-3	-25	-5	15	8	4	-2	
225(2, 6) =	1	1	-1	3	-7	15	-3	-15	-25	5	-7	8	4	
225(2, 7) =	1	1	-1	-3	4	30	10	0	-10	0	-4	9	5	1
225(2, 8) =	1	1	2	0	-6	30	7	5	5	5	-12	-1	3	1
225(2, 9) =	1	1	-1	3	3	-45	7	5	5	5	3	-7	-6	-
225(2,10) =	1	1	-1	-3	-16	30	0	-10	10	0	-4	4	-5	-
225(2,11) =	1	1	2	0	-1	-45	-3	15	5	5	-7	-16	-2	
225(2,12) =	1	1	-1	3	-2	0	7	15	5	15	-7	3	-16	-
225(3, 6) =	1	1	-1	-3	-9	15	1	5	5	-25	0	-4	9	-
225(3, 7) =	1	1	2	0	-6	30	-8	-10	20	-10	3	-1	3	-
225(3, 8) =	1	1	-1	3	-7	-45	-3	-25	-5	15	8	-2	4	
225(3, 9) =	1	1	-1	-3	11	-15	6	0	-10	20	5	11	4	
225(3,10) =	1	1	2	0	4	-30	7	15	5	15	8	-6	8	-
225(3,11) =	1	1	-1	3	3	45	-8	20	-10	-10	3	8	-6	1
225(4, 8) =	1	1	-1	-3	-1	-15	0	0	-10	-10	-4	-1	-5	-
225(4, 9) =	1	1	2	0	4	0	2	-10	0	-20	3	4	8	
225(4,10) =	1	1	-1	3	3	15	-3	5	15	5	3	0	-6	
225(5,10) =	1	1	-1	-3	-6	0	-15	15	-15	-15	21	9	15	-

TABLE 65 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 4 (MOD 5), IND 5 = 0 (

	P	I	A	B	C	D	X	U	V	W	B0	B1	B2	
225(0, 0) =	1	-44	-1	-3	36	0	-9	45	15	15	36	27	-3	
225(0, 1) =	1	-14	2	0	-12	0	2	10	-10	-10	-17	24	13	-
225(0, 2) =	1	-14	-1	3	8	60	-13	-25	5	-5	3	-22	14	1
225(0, 3) =	1	-14	-1	-3	16	0	1	15	-25	-5	6	7	-3	
225(0, 4) =	1	-14	2	0	-2	90	7	15	15	5	13	4	8	
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-24	0	-4	-20	20	-40	-14	-3	7	1
225(0, 7) =	1	-14	2	0	3	-60	-13	-25	5	-5	3	14	-7	1
225(0, 8) =	1	-14	-1	3	-2	30	7	-15	5	25	3	-17	-6	-2
225(0, 9) =	1	-14	-1	-3	16	0	1	-15	-15	35	-14	7	2	
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-12	0	2	10	-10	-10	-17	-27	-26	-
225(0,12) =	1	-14	-1	-3	-4	0	11	-25	5	-5	6	2	-13	-1
225(0,13) =	1	-14	2	0	-2	-30	7	-15	5	25	3	4	3	-2
225(0,14) =	1	-14	-1	3	-2	-90	7	15	15	5	13	-17	14	
225(1, 2) =	1	1	-1	-3	-12	0	0	-10	-10	0	8	6	-19	
225(1, 3) =	1	1	2	0	13	-15	-3	-5	15	-25	-12	4	8	-
225(1, 4) =	1	1	-1	3	3	-45	-3	5	5	15	-7	3	-1	
225(1, 5) =	1	1	-1	-3	18	0	5	-5	5	5	-2	-9	1	-
225(1, 6) =	1	1	2	0	-2	0	-8	0	0	20	-2	-11	-7	
225(1, 7) =	1	1	-1	3	3	45	-3	5	-25	-15	8	3	14	-1
225(1, 8) =	1	1	-1	-3	-2	0	0	10	0	-10	3	1	-4	-
225(1, 9) =	1	1	2	0	3	45	12	-10	-10	0	-7	-6	-7	
225(1,10) =	1	1	-1	3	3	-45	2	-20	20	-10	13	3	4	-
225(1,11) =	1	1	-1	-3	-2	0	-5	15	15	5	-2	1	-4	-1
225(1,12) =	1	1	2	0	3	45	-3	5	5	15	-7	-6	8	
225(1,13) =	1	1	-1	3	-2	60	-3	-5	-15	5	3	-2	-1	1
225(2, 4) =	1	1	-1	-3	-2	0	0	10	0	-10	3	1	11	-
225(2, 5) =	1	1	2	0	-7	-15	2	-10	-10	10	3	-1	-7	-
225(2, 6) =	1	1	-1	3	3	-45	12	-10	-10	0	-7	3	-1	
225(2, 7) =	1	1	-1	-3	-2	0	10	0	20	10	-12	1	6	1
225(2, 8) =	1	1	2	0	-2	30	-3	25	15	5	3	4	-7	-
225(2, 9) =	1	1	-1	3	-2	-30	-2	25	15	5	3	-2	-1	-
225(2,10) =	1	1	-1	-3	8	0	-10	-10	-10	10	-12	-4	-4	-
225(2,11) =	1	1	2	0	3	-45	-3	5	-25	-15	8	-6	-7	-1
225(2,12) =	1	1	-1	3	-2	30	7	15	5	-5	3	13	-6	
225(3, 6) =	1	1	-1	-3	-14	0	-9	-5	15	5	6	-8	2	-1
225(3, 7) =	1	1	2	0	-2	-60	-3	-5	-15	5	3	4	8	1
225(3, 8) =	1	1	-1	3	-7	15	2	-10	-10	10	3	8	14	-
225(3, 9) =	1	1	-1	-3	6	0	6	20	-10	0	-4	-3	2	
225(3,10) =	1	1	2	0	-2	-30	7	15	5	-5	3	-11	3	
225(3,11) =	1	1	-1	3	13	15	-3	-5	15	-25	-12	-2	-16	-
225(4, 8) =	1	1	-1	-3	-12	0	0	-10	-10	0	8	6	11	
225(4, 9) =	1	1	2	0	3	45	2	-20	20	-10	13	9	-2	-
225(4,10) =	1	1	-1	3	-2	0	-8	0	0	20	-2	13	-1	
225(5,10) =	1	1	-1	-3	18	0	0	0	-30	-30	18	-9	6	-1

TABLE 66: IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 5), IND 3 = 4 (MOD 5), IND 5 = 0 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	12	0	-9	45	15	15	12	-21	9	-1
225(0, 1) =	1	-14	2	0	8	60	2	10	-10	-10	23	4	-7	-
225(0, 2) =	1	-14	-1	3	-12	0	-13	-25	5	-5	3	18	14	-
225(0, 3) =	1	-14	-1	-3	-8	0	1	15	-25	-5	-18	-1	9	2
225(0, 4) =	1	-14	2	0	-2	-30	7	15	15	5	-7	-16	-12	
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	32	0	-4	-20	20	-40	2	-11	-1	-
225(0, 7) =	1	-14	2	0	-12	0	-13	-25	5	-5	3	-6	-7	-
225(0, 8) =	1	-14	-1	3	-2	30	7	-15	5	25	3	23	-6	1
225(0, 9) =	1	-14	-1	-3	-8	0	1	-15	-15	35	2	-1	-6	-1
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	6	-60	2	10	-10	-10	23	13	14	-
225(0,12) =	1	-14	-1	-3	12	0	11	-25	5	-5	-18	-6	-1	
225(0,13) =	1	-14	2	0	-3	-30	7	-15	5	25	3	-16	3	1
225(0,14) =	1	-14	-1	3	-2	30	7	15	15	5	-7	23	-6	
225(1, 2) =	1	1	-1	-3	0	0	0	-10	-10	0	0	0	15	
225(1, 3) =	1	1	2	0	-7	-15	-3	-5	15	-25	8	4	-2	
225(1, 4) =	1	1	-1	3	3	15	-3	5	5	15	3	3	9	-
225(1, 5) =	1	1	-1	-3	-10	0	5	-5	5	5	-10	-5	5	
225(1, 6) =	1	1	2	0	-2	60	-8	0	0	20	8	-1	3	
225(1, 7) =	1	1	-1	3	3	-75	-3	5	-25	-15	-12	3	-6	
225(1, 8) =	1	1	-1	-3	-10	0	0	10	0	-10	5	-5	10	-
225(1, 9) =	1	1	2	0	3	-15	12	-10	-10	0	3	-6	3	
225(1,10) =	1	1	-1	3	-7	-15	2	-20	20	-10	-7	-17	-16	
225(1,11) =	1	1	-1	-3	10	0	-5	15	15	5	-10	5	0	
225(1,12) =	1	1	2	0	3	-15	-3	5	5	15	3	-6	-12	
225(1,13) =	1	1	-1	3	8	-30	-3	-5	-15	5	-7	-2	-11	
225(2, 4) =	1	1	-1	-3	-10	0	0	10	0	-10	5	-5	-5	-
225(2, 5) =	1	1	2	0	3	-45	2	-10	-10	10	3	9	-7	
225(2, 6) =	1	1	-1	3	3	15	12	-10	-10	0	3	3	9	
225(2, 7) =	1	1	-1	-3	10	0	10	0	20	10	0	5	0	
225(2, 8) =	1	1	2	0	8	-60	-3	25	15	5	-7	4	13	
225(2, 9) =	1	1	-1	3	8	60	-3	25	15	5	-7	-2	-11	
225(2,10) =	1	1	-1	-3	0	0	-10	-10	-10	10	0	0	-10	-
225(2,11) =	1	1	2	0	3	75	-3	5	-25	-15	-12	-6	3	
225(2,12) =	1	1	-1	3	-2	30	7	15	5	-5	3	-7	-6	-
225(3, 6) =	1	1	-1	-3	2	0	-9	-5	15	5	2	4	4	
225(3, 7) =	1	1	2	0	8	30	-3	-5	-15	5	-7	4	-2	
225(3, 8) =	1	1	-1	3	3	45	2	-10	-10	10	3	-12	14	
225(3, 9) =	1	1	-1	-3	-18	0	6	20	-10	0	12	9	-6	
225(3,10) =	1	1	2	0	-2	-30	7	15	5	-5	3	-1	3	-
225(3,11) =	1	1	-1	3	-7	15	-3	-5	15	-25	8	-2	4	
225(4, 8) =	1	1	-1	-3	0	0	0	-10	-10	0	0	0	-15	
225(4, 9) =	1	1	2	0	-7	15	2	-20	20	-10	-7	19	8	
225(4,10) =	1	1	-1	3	-2	-60	-8	0	0	20	8	-7	9	
225(5,10) =	1	1	-1	-3	30	0	0	0	-30	-30	30	15	0	

TABLE 67 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 4 (MOD 5), IND 5 = 1 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	0	0	-9	45	15	15	18	27	15	-1
225(0, 1) =	1	-14	2	0	-12	-60	2	10	-10	-10	13	-6	13	-
225(0, 2) =	1	-14	-1	3	14	30	-13	-25	5	-5	3	8	14	1
225(0, 3) =	1	-14	-1	-3	10	-30	1	15	-25	-5	-13	7	15	1
225(0, 4) =	1	-14	2	0	-2	30	7	15	15	5	-17	-26	-22	
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	-30	30	-4	-20	20	-40	-2	-3	-5	-
225(0, 7) =	1	-14	2	0	8	0	-13	-25	5	-5	3	-16	-7	-1
225(0, 8) =	1	-14	-1	3	4	0	7	-15	5	25	3	13	-6	
225(0, 9) =	1	-14	-1	-3	10	30	1	-15	-15	35	-2	7	-10	-1
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	-6	30	2	10	-10	-10	13	3	4	-
225(0,12) =	1	-14	-1	-3	-10	-30	11	-25	5	-5	-12	2	5	-
225(0,13) =	1	-14	2	0	-2	30	7	-15	5	25	3	-26	3	
225(0,14) =	1	-14	-1	3	4	-60	7	15	15	5	13	13	-16	
225(1, 2) =	1	1	-1	-3	-3	15	0	-10	-10	0	-13	6	2	-
225(1, 3) =	1	1	2	0	13	15	-3	-5	15	-25	3	4	8	1
225(1, 4) =	1	1	-1	3	-6	-30	-3	5	5	15	8	3	-1	-1
225(1, 5) =	1	1	-1	-3	12	30	5	-5	5	5	-8	-9	7	
225(1, 6) =	1	1	2	0	-2	-60	-8	0	0	20	13	4	8	
225(1, 7) =	1	1	-1	3	-6	60	-3	3	-25	-15	-7	3	-1	
225(1, 8) =	1	1	-1	-3	7	-15	0	10	0	-10	-3	1	2	
225(1, 9) =	1	1	2	0	3	15	12	-10	-10	0	8	-6	8	-1
225(1,10) =	1	1	-1	3	9	-15	2	-20	20	-10	-2	-12	-11	-
225(1,11) =	1	1	-1	-3	-8	30	-5	15	15	5	-8	1	2	-
225(1,12) =	1	1	2	0	3	15	-3	5	5	15	-7	-6	-7	
225(1,13) =	1	1	-1	3	-11	45	-3	-5	-15	5	3	-2	-16	-
225(2, 4) =	1	1	-1	-3	7	-15	0	10	0	-10	12	1	2	-2
225(2, 5) =	1	1	2	0	-7	45	2	-10	-10	10	3	14	-7	1
225(2, 6) =	1	1	-1	3	-6	-30	12	-10	-10	0	-7	3	14	
225(2, 7) =	1	1	-1	-3	-8	-30	10	0	20	10	-3	1	-3	1
225(2, 8) =	1	1	2	0	-2	60	-3	25	15	5	3	4	8	-
225(2, 9) =	1	1	-1	3	-11	-45	-3	25	15	5	-12	-2	-1	1
225(2,10) =	1	1	-1	-3	2	-30	-10	-10	-10	10	-3	-4	-13	-
225(2,11) =	1	1	2	0	3	-75	-3	5	-25	-15	-7	-6	-7	
225(2,12) =	1	1	-1	3	4	0	7	15	5	-5	3	-2	-6	-1
225(3, 6) =	1	1	-1	-3	-5	-15	-9	-5	15	5	3	-8	5	-
225(3, 7) =	1	1	2	0	-2	-30	-3	-5	-15	5	-12	4	-7	-
225(3, 8) =	1	1	-1	3	-1	-15	2	-10	-10	10	3	-7	14	-
225(3, 9) =	1	1	-1	-3	15	15	6	20	-10	0	8	-3	-10	
225(3,10) =	1	1	2	0	-2	30	7	15	5	-5	3	4	3	-1
225(3,11) =	1	1	-1	3	4	0	-3	-5	15	-25	3	-2	-1	-
225(4, 8) =	1	1	-1	-3	-3	15	0	-10	-10	0	17	6	2	1
225(4, 9) =	1	1	2	0	3	-15	2	-20	20	-10	-2	24	-2	-
225(4,10) =	1	1	-1	3	4	30	-8	0	0	20	-2	-2	14	
225(5,10) =	1	1	-1	-3	-18	0	0	0	-30	-30	27	-9	-3	-

TABLE 68 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 4 (MOD 5), IND 5 = 1 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	-24	0	-9	45	15	15	30	-21	-9	
225(0, 1) =	1	-14	2	0	3	0	2	10	-10	-10	-7	34	-7	-3
225(0, 2) =	1	-14	-1	3	-6	-30	-13	-25	5	-5	3	-12	14	-1
225(0, 3) =	1	-14	-1	-3	-14	-30	1	15	-25	-5	0	-1	-9	1
225(0, 4) =	1	-14	2	0	-2	-90	7	15	15	5	23	14	18	
225(0, 5) =	1	-14	-1	3	24	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	26	30	-4	-20	20	-40	-10	-11	11	1
225(0, 7) =	1	-14	2	0	-12	60	-13	-25	5	-5	3	24	-7	2
225(0, 8) =	1	-14	-1	3	4	0	7	-15	5	25	3	-7	-6	-1
225(0, 9) =	1	-14	-1	-3	-14	30	1	-15	-15	35	-10	-1	6	
225(0,10) =	1	-14	2	0	-12	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	14	-30	2	10	-10	-10	-7	-17	-16	-
225(0,12) =	1	-14	-1	-3	6	-30	11	-25	5	-5	0	-6	-19	-1
225(0,13) =	1	-14	2	0	-2	30	7	-15	5	25	3	14	3	-1
225(0,14) =	1	-14	-1	3	4	60	7	15	15	5	-7	-7	24	
225(1, 2) =	1	1	-1	-3	9	15	0	-10	-10	0	21	0	-6	1
225(1, 3) =	1	1	2	0	-7	15	-3	-5	15	-25	-7	4	-2	-
225(1, 4) =	1	1	-1	3	-6	30	-3	5	5	15	-12	3	9	
225(1, 5) =	1	1	-1	-3	-16	30	5	-5	5	5	-4	-5	-1	
225(1, 6) =	1	1	2	0	-2	0	-8	0	0	20	-7	-16	-12	
225(1, 7) =	1	1	-1	3	-6	-60	-3	5	-25	-15	3	3	9	-
225(1, 8) =	1	1	-1	-3	-1	-15	0	10	0	-10	11	-5	4	-1
225(1, 9) =	1	1	2	0	3	-45	13	-10	-10	0	-12	-6	-12	
225(1,10) =	1	1	-1	3	-1	15	2	-20	20	-10	8	-2	-1	-
225(1,11) =	1	1	-1	-3	4	30	-5	15	15	5	-4	5	-6	-
225(1,12) =	1	1	2	0	3	-45	-3	5	5	15	3	-6	3	-
225(1,13) =	1	1	-1	3	-1	-45	-3	-5	-15	5	-7	-2	4	
225(2, 4) =	1	1	-1	-3	-1	-15	0	10	0	-10	-4	-5	4	1
225(2, 5) =	1	1	2	0	3	15	2	-10	-10	10	3	-6	-7	-
225(2, 6) =	1	1	-1	3	-6	30	12	-10	-10	0	3	3	-6	-
225(2, 7) =	1	1	-1	-3	4	-30	10	0	20	10	-9	5	9	1
225(2, 8) =	1	1	2	0	3	-30	-3	25	15	5	-7	4	-2	
225(2, 9) =	1	1	-1	3	-1	45	-3	25	15	5	9	-2	-11	-
225(2,10) =	1	1	-1	-3	-6	-30	-10	-10	-10	10	-9	0	-1	-
225(2,11) =	1	1	2	0	3	45	-3	5	-25	-15	3	-6	3	-
225(2,12) =	1	1	-1	3	4	0	7	15	5	-5	3	8	-6	-
225(3, 6) =	1	1	-1	-3	11	-15	-9	-5	15	5	5	4	1	-1
225(3, 7) =	1	1	2	0	3	60	-3	-5	-15	5	8	4	13	
225(3, 8) =	1	1	-1	3	9	15	2	-10	-10	10	3	3	14	
225(3, 9) =	1	1	-1	-3	-9	15	6	20	-10	0	0	9	6	
225(3,10) =	1	1	2	0	-2	30	7	15	5	-5	3	-16	3	-
225(3,11) =	1	1	-1	3	-16	0	-3	-5	15	-25	-7	-2	-11	
225(4, 8) =	1	1	-1	-3	9	15	0	-10	-10	0	-9	0	-6	-
225(4, 9) =	1	1	2	0	-7	-45	2	-20	20	-10	8	4	8	-
225(4,10) =	1	1	-1	3	4	-30	-8	0	0	20	0	0	-6	
225(5,10) =	1	1	-1	-3	-6	0	0	0	-30	-30	21	15	9	-

TABLE 69 : IND 2 = 1 (MOD 3), IND 2 = 1 (MOD 5), IND 3 = 4 (MOD 5), IND 5 = 2 (M

	P	I	A	R	C	D	X	U	V	W	B0	B1	B2	B3
225(0, 0) =	1	-44	-1	-3	0	0	-9	45	15	15	18	-45	-3	-12
225(0, 1) =	1	-14	2	0	-6	-30	2	10	-10	-10	13	24	-17	-2
225(0, 2) =	1	-14	-1	3	8	0	-13	-25	5	-5	3	8	14	-17
225(0, 3) =	1	-14	-1	-3	10	30	1	15	-25	-5	-13	-5	-3	18
225(0, 4) =	1	-14	2	0	4	60	7	15	15	5	13	4	8	3
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	3
225(0, 6) =	1	-14	-1	-3	-30	-30	-4	-20	20	-40	-2	-15	7	-2
225(0, 7) =	1	-14	2	0	14	-30	-13	-25	5	-5	3	14	-7	13
225(0, 8) =	1	-14	-1	3	-2	-30	7	-15	5	25	3	13	-6	3
225(0, 9) =	1	-14	-1	-3	10	-30	1	-15	-15	35	-2	-5	2	-12
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	3
225(0,11) =	1	-14	-1	3	-12	60	2	10	-10	-10	13	3	4	-2
225(0,12) =	1	-14	-1	-3	-10	30	11	-25	5	-5	-12	-10	-13	-1
225(0,13) =	1	-14	2	0	4	0	7	-15	5	25	3	4	3	3
225(0,14) =	1	-14	-1	3	-2	-30	7	15	15	5	-17	13	14	
225(1, 2) =	1	1	-1	-3	-8	-15	0	-10	-10	0	17	-3	11	12
225(1, 3) =	1	1	2	0	4	0	-3	-5	15	-25	3	4	-7	-1
225(1, 4) =	1	1	-1	3	3	-15	-3	5	5	15	-7	3	14	
225(1, 5) =	1	1	-1	-3	12	-30	5	-5	5	5	-8	-3	1	
225(1, 6) =	1	1	2	0	4	-30	-8	0	0	20	-2	-11	-7	
225(1, 7) =	1	1	-1	3	3	75	-3	5	-25	-15	-7	3	-1	
225(1, 8) =	1	1	-1	-3	7	15	0	10	0	-10	12	-8	11	-2
225(1, 9) =	1	1	2	0	-6	30	12	-10	-10	0	-7	-6	-7	
225(1,10) =	1	1	-1	3	3	15	2	-20	20	-10	-2	-12	-11	-1
225(1,11) =	1	1	-1	-3	-8	-30	-5	15	15	5	-8	7	-4	-1
225(1,12) =	1	1	2	0	-6	30	-3	5	5	15	8	-6	-7	-1
225(1,13) =	1	1	-1	3	-2	30	-3	-5	-15	5	-12	-2	-1	-1
225(2, 4) =	1	1	-1	-3	7	15	0	10	0	-10	-3	-8	-4	
225(2, 5) =	1	1	2	0	-1	15	2	-10	-10	10	3	-1	-7	-1
225(2, 6) =	1	1	-1	3	3	-15	12	-10	-10	0	8	3	-1	-1
225(2, 7) =	1	1	-1	-3	-8	30	10	0	20	10	-3	7	6	1
225(2, 8) =	1	1	2	0	-11	45	-3	25	15	5	-12	4	8	1
225(2, 9) =	1	1	-1	3	-2	-60	-3	25	15	5	3	-2	-16	-1
225(2,10) =	1	1	-1	-3	2	30	-10	-10	-10	10	-3	2	-4	-1
225(2,11) =	1	1	2	0	-6	-60	-3	5	-25	-15	-7	-6	8	
225(2,12) =	1	1	-1	3	-2	-30	7	15	5	-5	3	-2	-6	-1
225(3, 6) =	1	1	-1	-3	-5	15	-9	-5	15	5	3	10	2	-1
225(3, 7) =	1	1	2	0	-11	-45	-3	-5	-15	5	3	4	8	-1
225(3, 8) =	1	1	-1	3	-7	-45	2	-10	-10	10	3	-7	14	1
225(3, 9) =	1	1	-1	-3	15	-15	6	20	-10	0	8	15	2	
225(3,10) =	1	1	2	0	4	0	7	15	5	-5	3	-11	3	-1
225(3,11) =	1	1	-1	3	13	-15	-3	-5	15	-25	3	-2	-1	1
225(4, 8) =	1	1	-1	-3	-3	-15	0	-10	-10	0	-13	-3	-19	-1
225(4, 9) =	1	1	2	0	9	15	2	-20	20	-10	-2	5	13	-1
225(4,10) =	1	1	-1	3	-2	60	-8	0	0	20	13	-2	-1	
225(5,10) =	1	1	-1	-3	-18	0	0	0	-30	-30	27	27	6	-1

TABLE 70 : IND 2 = 1 (MOD 3), IND 3 = 1 (MOD 5), IND 4 = 4 (MOD 5), IND 5 = 2 (

	P	1	A	B	C	D	X	U	V	W	B0	B1	B2	B
225(0, 0) =	1	-44	-1	-3	-24	0	-9	45	15	15	30	51	9	
225(0, 1) =	1	-14	2	0	14	30	2	10	-10	-10	-7	4	23	-2
225(0, 2) =	1	-14	-1	3	-12	-60	-13	-25	5	-5	3	-12	14	2
225(0, 3) =	1	-14	-1	-3	-14	30	1	15	-25	-5	0	11	9	1
225(0, 4) =	1	-14	2	0	4	-60	7	15	15	5	-7	-16	-12	
225(0, 5) =	1	-14	-1	3	-12	0	-3	15	-15	-15	-12	3	-6	
225(0, 6) =	1	-14	-1	-3	26	-30	-4	-20	20	-40	-10	1	-1	1
225(0, 7) =	1	-14	2	0	-6	30	-13	-25	5	-5	3	-6	-7	-1
225(0, 8) =	1	-14	-1	3	-2	-30	7	-15	5	25	3	-7	-6	-1
225(0, 9) =	1	-14	-1	-3	-14	-30	1	-15	-15	35	-10	11	-6	
225(0,10) =	1	-14	2	0	24	0	-3	15	-15	-15	-12	-6	3	
225(0,11) =	1	-14	-1	3	8	0	2	10	-10	-10	-7	-17	-16	-1
225(0,12) =	1	-14	-1	-3	6	30	11	-25	5	-5	0	6	-1	-1
225(0,13) =	1	-14	2	0	4	0	7	-15	5	25	3	-16	3	-1
225(0,14) =	1	-14	-1	3	-2	90	7	15	15	5	23	-7	-6	
225(1, 2) =	1	1	-1	-3	9	-15	0	-10	-10	0	-9	9	-15	-
225(1, 3) =	1	1	2	0	-16	0	-3	-5	15	-25	-7	4	13	
225(1, 4) =	1	1	-1	3	3	45	-3	5	5	15	3	3	-6	-
225(1, 5) =	1	1	-1	-3	-16	-30	5	-5	5	5	-4	-11	5	
225(1, 6) =	1	1	2	0	4	30	-8	0	0	20	8	-1	3	
225(1, 7) =	1	1	-1	3	3	-45	-3	5	-25	-15	3	3	9	-
225(1, 8) =	1	1	-1	-3	-1	15	0	10	0	-10	-4	4	-5	1
225(1, 9) =	1	1	2	0	-6	-30	12	-10	-10	0	3	-6	3	-
225(1,10) =	1	1	-1	3	-7	45	2	-20	20	-10	8	-2	-1	-
225(1,11) =	1	1	-1	-3	4	-30	-5	15	15	5	-4	-1	0	-
225(1,12) =	1	1	2	0	-6	-30	-3	5	5	15	-12	-6	3	
225(1,13) =	1	1	-1	3	8	-60	-3	-5	-15	5	8	-2	-11	
225(2, 4) =	1	1	-1	-3	-1	15	0	10	0	-10	11	4	10	-1
225(2, 5) =	1	1	2	0	9	-15	2	-10	-10	10	3	9	-7	
225(2, 6) =	1	1	-1	3	3	45	12	-10	-10	0	-12	3	9	
225(2, 7) =	1	1	-1	-3	4	30	10	0	20	10	-9	-1	0	1
225(2, 8) =	1	1	2	0	-1	-45	-3	25	15	5	8	4	-2	-
225(2, 9) =	1	1	-1	3	3	30	-3	25	15	5	-7	-2	4	
225(2,10) =	1	1	-1	-3	-6	30	-10	-10	-10	10	-9	-6	-10	-
225(2,11) =	1	1	2	0	-6	60	-3	5	-25	-15	3	-6	-12	-
225(2,12) =	1	1	-1	3	-2	-30	7	15	5	-5	3	8	-6	-
225(3, 6) =	1	1	-1	-3	11	15	-9	-5	15	5	5	-14	4	-1
225(3, 7) =	1	1	2	0	-1	45	-3	-5	-15	5	-7	4	-2	
225(3, 8) =	1	1	-1	3	3	-15	2	-10	-10	10	3	3	14	-
225(3, 9) =	1	1	-1	-3	-9	-15	6	20	-10	0	0	-9	-6	
225(3,10) =	1	1	2	0	4	0	7	15	5	-5	3	-1	3	-
225(3,11) =	1	1	-1	3	-7	-15	-3	-5	15	-25	-7	-2	-11	-
225(4, 8) =	1	1	-1	-3	9	-15	0	-10	-10	0	21	9	15	1
225(4, 9) =	1	1	2	0	-1	-15	2	-20	20	-10	8	19	-7	-
225(4,10) =	1	1	-1	3	-2	0	-8	0	0	20	-7	8	9	
225(5,10) =	1	1	-1	-3	-6	0	0	0	-30	-30	21	-21	0	-