COVERING RADIUS COMPUTATIONS
FOR BINARY CYCLIC CODES

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ABSTRACT. We compute the covering radius of each binary cyclic code of length ≤ 64 (for both even and odd lengths) and redundancy ≤ 28. We also compute the covering radii of their punctured codes and shortened codes. Thus we give exact covering radii of over six thousand codes. For each of these codes (except for certain composite codes), we also determine the number of cosets of each weight less than or equal to the covering radius. These results are used to compute the minimum distances of the above cyclic codes. We use the covering radii of shortened codes and other criteria for normality to show that all but eight of the cyclic codes for which we determine the covering radius are normal. For all but seven of these normal codes, we determine the norm using some old results and some new results proved here. We observe that many cyclic codes are among the best covering codes discovered so far, and some of them lead to improvements on the previously published bounds on $t[n, k]$, the smallest covering radius of any binary linear $[n, k]$ code.

Among some other applications of our results, we use our table of covering radii and a code augmentation argument to give four improvements on the values of $d_{\max}(n, k)$, where $d_{\max}(n, k)$ is the largest minimum distance of any binary $[n, k]$ code. These results show that the covering radius is intimately connected with the other three parameters of a linear code, n, k, and d. We also give a complete classification (up to isomorphism) of cyclic self-dual codes of lengths 42, 56, and 60.

The computations were carried out mainly on concurrent machines (hypercubes and Connection Machines); we give a description of our algorithm.

1. INTRODUCTION

Coding theory consists of the study of transmission of information reliably over a noisy channel (deep space, telephone, telegraph, magnetic tape, disc drive, etc.). Algebra, combinatorics, graph theory, finite geometries, combinatorial geometries, number theory, representation theory, and algebraic geometry have contributed to this discipline and in turn have profited from it (see, for example, MacWilliams and Sloane [20], Berlekamp [1], Goppa [13], or Hirschfeld [15]).

Let F_2 denote the finite field of two elements. An $[n, k]$ binary linear block code C is a k-dimensional subspace of F_2^n. For $u, v \in F_2^n$, let $d(u, v)$ denote the number of coordinate places where u and v differ; $d(u, v)$ is called the Hamming distance between u and v. The minimum distance of C

is defined as $d = \min\{d(u, v) \mid u, v \in C \text{ and } u \neq v\}$. The *Hamming weight* $\text{wt}(u)$ of a vector u is defined to be $d(u, 0)$. Since C is a linear subspace of F_2^n, the minimum distance of C is the minimum of the set of weights of nonzero vectors in C. The *covering radius* of a block code C of length n is the smallest integer $R = R(C)$ such that all vectors in the containing space are within Hamming distance R of some codeword of C. Cohen et al. [8] gives a survey of present knowledge about R. For basic results from coding theory, see Berlekamp [1], van Lint [28], MacWilliams and Sloane [20], or Pless [25]. From now on, an $[n, k, d]R$ code is a linear code of length n, dimension k, minimum distance d, and a covering radius R.

For the last forty years, the main problems of coding theory have been optimization problems involving only the three parameters n, k, and d. Some particular problems have been to maximize k and d (for fixed n) and to find linear $[n, k, d]$ codes (i.e., $[n, k]$ codes with minimum distance d) with simple decoding algorithms. However, recently there has been an intense interest in codes with optimum covering radius [8]. It has been established that the covering radius is a basic geometric parameter of a code and has many important applications (see Cohen et al. [8] for further references). This paper concerns Open Problem 6 of [8], which asks for the determination of the covering radii of some classes of codes (e.g., Goppa codes, Justesen codes, cyclic codes, quadratic residue codes, or Reed-Muller codes). We note that quadratic residue codes are cyclic codes and Reed-Muller codes are extended cyclic codes. Also, some extended Goppa codes are cyclic.

We have computed the covering radius of binary cyclic codes of length ≤ 64 (for both even and odd lengths) and redundancy ≤ 28. Downey and Sloane [12] give the covering radii of some cyclic codes of odd length ≤ 31 (see also Mattson [21] and Cohen et al. [8]), and we verify these results. The covering radii of a few other codes, such as the [47, 24, 11] quadratic residue code and the 1-, 2-, and 3-error-correcting BCH (Bose-Chaudhuri-Hocquenghem) codes of lengths $2^m - 1$, $m \geq 2$, are also known [8]. The problem of computing covering radii is known to be both NP-hard and co-NP-hard (in fact, Π_2^p-complete [23]), and hence strictly harder than any NP-complete problem unless NP = co-NP.

We show that all but eight of the cyclic codes for which we compute the covering radius are normal, and we determine the norm for all but seven of the normal ones. Normal codes are important because they can be efficiently combined to give good codes by using the "amalgamated direct sum" construction given in Graham and Sloane [14]. We prove normality and determine the norms of most codes by determining the covering radii of shortened codes and punctured codes and then applying several results, some of which are new. Computing the norm seems to be at least as hard as computing the covering radius (see §3).

We also determine the number of cosets of each weight less than or equal to R; this is extremely difficult to calculate for a general code and is known only for very few codes [20, pp. 18–19]. The coset weights give the exact value for

the decoding error probability if C is used for error correction and maximum likelihood decoding is used [20, pp. 15–19]. As an application of these numbers, we determine the minimum distance for all cyclic codes for which we compute the covering radius.

One goal of this paper is to give tighter bounds on the values of the following two functions connected with the covering radius:

(1) The smallest covering radius of any $[n, k]$ binary linear code, denoted by $t[n, k]$. Graham and Sloane [14] give a table of bounds on $t[n, k]$ for $n \leq 64$. We give twelve improvements of upper bounds in this table. Some of our codes achieve the exact value of $t[n, k]$.

(2) The least length of a code of codimension m and covering radius R, denoted $l(m, R)$ [4] (the codimension of an $[n, k]$ code is $n - k$). Brualdi and Pless [3] include a table of bounds on $l(m, R)$ for $m \leq 24$; we give improvements of three upper bounds in this table.

For all of the cyclic codes in our table, we also determine the covering radius of the corresponding punctured and shortened codes. In all, we determine the covering radius for over six thousand codes.

As an application of all the parameters we compute, we give a complete classification (up to isomorphism) of cyclic self-dual codes of lengths 42, 56, and 60.

Among other applications of our results, we use our table of covering radii and a code augmentation argument to give four improvements on the known bounds of $d_{\max}(n, k)$, where $d_{\max}(n, k)$ is the largest minimum distance of any binary $[n, k]$ code. These results show that the covering radius is closely connected with the other three parameters of a linear code, n, k, and d.

The organization of the paper is as follows. In §2 we collect the necessary background from coding theory. Section 3 lists the required results to determine the normality and the norm for the cyclic codes mentioned above. Section 4 contains the details of the algorithm used. Section 5 consists of a description of how we generate our list of cyclic codes, including a discussion of trivial and composite codes. In §6, we discuss the results we obtain and their applications. The Appendix, on microfiche, contains two long tables containing the following data: Table 1 lists the cyclic codes of length at most 64 and codimension at most 28 (omitting some trivial and composite codes), with the roots and computed parameters for each code; Table 2 gives the coset weight distribution of each listed cyclic, punctured cyclic, or shortened cyclic code.

2. BACKGROUND

We use the notation of Cohen et al. [8].

Let G be a $k \times n$ binary matrix whose rows form a basis for an $[n, k]$ binary linear code C. Then G is called a *generator matrix* for C. If we define the inner product of two vectors in F_2^n in the usual way, then the orthogonal complement of C is called its *dual code* and denoted $C^\perp$. The dimension

of $C^\perp$ equals $n - k$, and a generator matrix for $C^\perp$ is called a *check matrix* for C.

We will need the following well-known facts about R, for which references are given in Cohen et al. [8, pp. 328–331].

Fact 1. *If H is any check matrix of C, then $R(C)$ is the least integer such that every syndrome is a sum of $R(C)$ or fewer columns of H, where a syndrome is any column of length $n - k$ over $GF(2)$.*

Fact 2 (Redundancy bound). $R(C) \le n - k$.

Fact 3 (Sphere-covering-bound). $2^{n-k} \le \sum_{i=0}^{R(C)} \binom{n}{i}$.

A code C is called *even* if all vectors in C have even weight.

Fact 4. *If C is even, then*

$$\sum_{2i \le R(C)} \binom{n}{2i} \ge 2^{n-k-1} \quad \text{and} \quad \sum_{2i+1 \le R(C)} \binom{n}{2i+1} \ge 2^{n-k-1}.$$

Fact 5 (Delsarte bound). *If s' is the total number of nonzero weights in $C^\perp$, then $R(C) \le s'$.*

Fact 6 (Supercode lemma). *If C_1 is a proper subcode of C_2, then*

$$R(C_1) \ge \max\{\min\{\mathrm{wt}(x) \mid x \in C_2 \setminus C_1\}, R(C_2)\}.$$

Fact 7. *Appending an overall parity check or an extra zero bit increases the covering radius by one. Puncturing a code on p coordinates (i.e., removing these coordinates) reduces the covering radius by at most p.*

Fact 8. *The $[n, 1, n]$ code has covering radius $\lfloor n/2 \rfloor$.*

Let $d(C)$ denote the minimum distance of C.

Fact 9 (Sphere-packing bound). *If $e(C) = \lfloor (d(C) - 1)/2 \rfloor$, then*

$$\sum_{i=0}^{e(C)} \binom{n}{i} \le 2^{n-k}.$$

If we take all code vectors in C which have a zero in the first coordinate (assuming that this does not include all of C) and drop this coordinate from these codewords, then we get the $[n - 1, k - 1, d_s]$ *shortened code* C_s (where $d_s \ge d$). A check matrix for C_s can be obtained by dropping the first column from a check matrix for C. In Table 1, $R_s = R(C_s)$. From Fact 1, it is clear that $R \le R_s$. For an important application of R_s, see Proposition 1 in §3.

Let C_p denote the code obtained from C by dropping the first coordinate. (C_p is called a *punctured code*.) Then Fact 7 implies that $R_p := R(C_p) \le R(C)$. For some applications of R_p, see §6.1 below.

The weight $\mathrm{wt}(D)$ of a coset D of C is defined to be the least weight of a vector in D. A vector of weight $\mathrm{wt}(D)$ in D is called a *coset leader*. Let α_i denote the number of cosets of C of weight i.

Let $C_\#^n$, $C_{\#p}^n$, and $C_{\#s}^n$ denote, respectively, cyclic code number # of length n in Table 1, its punctured code, and its shortened code.

An $[n, k, d]R$ code is a linear code of length n, dimension k, minimum distance d, and covering radius R.

3. Norms and normal codes

Fix $i \in \{0, 1\}$, and let $C_0^{(i)}$ (respectively $C_1^{(i)}$) denote the subcode of C consisting of codewords with ith coordinate equal to 0 (respectively 1). We assume that C is not identically zero at i. Let

$$(1) \qquad N^{(i)} := \max\{d(x, C_0^{(i)}) + d(x, C_1^{(i)}) \mid x \in F_2^n\}.$$

Then $N^{(i)}$ is called the *norm of C with respect to the coordinate position i*, and $N(C) := N := \min_{1 \le i \le n} N^{(i)}$ is called the *norm* of C; coordinate positions i for which $N = N^{(i)}$ are called *acceptable*. (Note that all coordinate positions of a cyclic code are acceptable.) The code is called *normal* if $N \le 2R + 1$.

Cohen, Lobstein, and Sloane [9] give the following sufficient condition for normality.

Proposition 1. *Let R_s denote the covering radius of a shortened subcode of a binary linear code C. If $R_s \le R + 1$, then C is normal.*

Other conditions ensuring normality have been established in a series of papers, starting with Graham and Sloane [14], where all $[n, k]$ codes with $n \le 8$ or $k \le 2$ were proved normal. After extensions in Cohen, Lobstein, and Sloane [9] and Sloane [26], the latest improvements appeared in Kilby and Sloane [19] and Janwa and Mattson [18].

Proposition 2. *An $[n, k, d]$ binary linear code C is normal provided that $n \le 14$, or $k \le 5$, or $d \le 5$, or $R \le 2$* [19], *or $n = 15$, or $n - k \le 8$* [18].

We use Propositions 1 and 2 to prove normality for all but the following codes in Table 1: C_{21}^{21}, C_{86}^{30}, C_{17}^{31}, C_{18}^{31}, C_{23}^{31}, C_1^{41}, C_2^{46}, C_1^{47}, and C_{554}^{63}.

The code C_{21}^{21} has been shown to be normal [12]. We thus have eight cyclic codes of lengths ≤ 64 and redundancy ≤ 28 for which we have not shown normality. Downey and Sloane [12] show that all cyclic codes of odd lengths ≤ 25 and some codes of lengths 27 and 31 are normal; we verify their results for these codes.

3.1. Determination of norms.

In this section we prove that the parameters R, R_p, and R_s and the evenness of cyclic codes are enough to determine the norm for all of the cyclic codes of length ≤ 64 and redundancy ≤ 28 except for the eight codes listed in the preceding section and seven additional codes. The norm for cyclic codes of odd lengths ≤ 25 and some codes of lengths 27 and 31 has already been computed by Downey and Sloane [12], and we verify their results for these codes.

Determining the norm of a binary linear code (theoretically or computation-ally) seems to be at least as difficult as determining the covering radius. This is clearly true for normal codes, for which we have $R(C) = \lfloor N(C)/2 \rfloor$. One can in fact show that the problem of computing covering radii is polynomial-time reducible to the problem of computing norms: if C is a code with check matrix H, and C' is the code whose check matrix consists of two copies of H side by side, then Theorem 2(a) in §5 implies that $R(C) = \lfloor N(C')/2 \rfloor$.

Proposition 3 (Graham and Sloane [14]). *If C is an even code, then the norm of C is even. Furthermore, if C is normal, then $N = 2R(C)$.*

To apply this result to cyclic codes, we note that any cyclic code with root 0 among its roots is an even code.

Theorem 2.3 from Janwa and Mattson [18] immediately yields the following tool for the determination of norms.

Proposition 4. *Let C be a normal cyclic code, and let C^* denote its punctured code at the coordinate $*$. If $R(C^*) = R(C)$, then $N(C) = 2R(C) + 1$.*

We now prove a partial converse to Proposition 4.

Theorem 1. *If $R(C^*) + 1 = R(C) = R(C_s)$, then $N(C) = 2R(C)$ (where C_s is the shortened subcode of C at $*$).*

Proof. First note that since $R(C) = R(C_s)$, C is normal at $*$. We may assume that $*$ is the first coordinate. Clearly, $C^* = (C_0)^* \cup (C_1)^*$. Let $x = (\varepsilon, x^*)$ be any vector. Then

$$d(x^*, C^*) = \min\{d(x^*, (C_0)^*), d(x^*, (C_1)^*)\} \le R(C^*) = R(C) - 1.$$

On the other hand,

$$\max\{d(x^*, (C_0)^*), d(x^*, (C_1)^*)\} \le R(C_s) = R(C).$$

Now,

$$\begin{aligned}
d(x, C_0) + d(x, C_1) &= 1 + d(x^*, (C_0)^*) + d(x^*, (C_1)^*) \\
&= 1 + \min\{d(x^*, (C_0)^*), d(x^*, (C_1)^*)\} \\
&\quad + \max\{d(x^*, (C_0)^*), d(x^*, (C_1)^*)\} \\
&\le 1 + (R(C) - 1) + R(C).
\end{aligned}$$

Therefore, $N(C) \le 2R(C)$. On the other hand, by (1), $N(C) \ge 2R(C)$. $\square$

Theorem 1 implies that the norm of C_3^{15} (which is not an even code) is 6, as is known from Downey and Sloane [12].

Propositions 3 and 4, Theorem 1, and the results in §5 suffice to determine the norm for all codes of lengths ≤ 64 and redundancy ≤ 28 except for the eight listed in the preceding section and the following seven: C_{66}^{30}, C_7^{33}, C_{79}^{45}, C_{82}^{45}, C_{81}^{63}, C_{477}^{63}, and C_{480}^{63}.

4. DETAILS OF THE ALGORITHM

The covering radius computations are done using a very efficient algorithm which is, so far as we can determine, different from previously used algorithms.

The starting point is Fact 1, which tells us that, in order to determine whether a code has covering radius at most j, we must find out whether every syndrome is a sum of j or fewer columns of the check matrix H. Therefore, we compute checklists L_0, L_1, etc., where L_j is an array of length 2^m $(m = n - k)$ in which entry number i is 1 if syndrome number i is a sum of j or fewer columns of H, and 0 otherwise; when we reach a j for which L_j is all 1's, we are done. At each step j we compute the number N_j of 1's in L_j; then the numbers $N_j - N_{j-1}$ give the coset weight distribution of the code.

Computing L_j directly would involve looking at all $\sum_{l=0}^{j} \binom{n}{l}$ sets of j or fewer columns of H and checking off their sums on the checklist; of course, if we already have L_{j-1}, we can just look at the $\binom{n}{j}$ new subsets. This becomes infeasible quite rapidly as j grows. However, there is a much better way to get L_j from L_{j-1}. This is to note that a sum of j or fewer columns of H is either a sum of $j - 1$ or fewer columns of H or the sum of one column of H and a syndrome which is a sum of $j - 1$ or fewer columns of H. Therefore, if we assume that the lth column of H is syndrome number h_l, we can write the algorithm for computing L_j from L_{j-1} as follows:

$$L_j \leftarrow L_{j-1}$$
$$\text{for } l \text{ from 1 to } n \text{ do}$$
$$\quad \text{for } i \text{ from 0 to } 2^m - 1 \text{ do}$$
$$\quad\quad L_j(i \oplus h_l) \leftarrow L_j(i \oplus h_l) \vee L_{j-1}(i)$$

Here $\vee$ is just the "or" operation, and $\oplus$ is the operation on syndrome numbers corresponding to addition of syndromes. If we use the obvious representation in which syndrome number i is the m-bit binary expansion of i, then $\oplus$ is just an exclusive-or operation on binary representations, which is a built-in operation on most computers.

Note that, as i runs through all numbers from 0 to $2^m - 1$, so does $i \oplus h_l$; hence, we can interchange i and $i \oplus h_l$ in the last line above. Also, instead of getting $L_{j-1}(i \oplus h_l)$ directly from L_{j-1}, we can get it from $L_{j-1}(i \oplus h_{l-1})$: if $d_l = h_l \oplus h_{l-1}$, then $L_{j-1}(i \oplus h_l) = L_{j-1}((i \oplus h_{l-1}) \oplus d_l)$. (The reason for doing this will be explained later.) Therefore, we can write the algorithm as

$$L_j \leftarrow L_{j-1}$$
$$L \leftarrow L_{j-1}$$
$$\text{for } l \text{ from 1 to } n \text{ do begin}$$
$$\quad L' \leftarrow L \text{ translated by } d_l$$
$$\quad L \leftarrow L'$$
$$\quad L_j \leftarrow L_j \vee L$$
$$\text{end}$$

where $d_1 = h_1$ and "$L' \leftarrow L$ translated by d_l" is:

$$\text{for } i \text{ from } 0 \text{ to } 2^m - 1 \text{ do}$$
$$L'(i) \leftarrow L(i \oplus d_l)$$

Since each entry of the checklist is a single bit, we can store a number of such entries in a single computer word; it will be convenient to restrict this number to be a power of 2, say 2^b. Then we can consider an m-bit syndrome number i to consist of two parts; the first $m - b$ bits of i identify a word within the checklist, and the remaining b bits choose a particular bit within this word. Then operations such as "$L_j \leftarrow L_j \vee L$" can easily be done a word at a time. Somewhat surprisingly, so can the operation "$L' \leftarrow L$ translated by d_l," because the operation $\oplus$ acts on the bits of a syndrome number separately. If we now index checklists by the top $m - b$ bits of a syndrome number, and if we write d_l as $2^b d_l' + d_l^{(b)}$, then "$L' \leftarrow L$ translated by d_l" becomes

$$\text{for } i \text{ from } 0 \text{ to } 2^{m-b} - 1 \text{ do}$$
$$L'(i) \leftarrow S(L(i \oplus d_l'), d_l^{(b)})$$

and the rest of the algorithm in the preceding paragraph is unchanged. (Here, $S(K, x)$ does bit-swapping in K as specified by x; bit number i of $S(K, x)$ is equal to bit number $i \oplus x$ of K.)

This completes the outline of the sequential algorithm. (Of course, there are a number of tricks one can use to speed up the bit-swapping, the counting of 1's in L_j, and so on.) It is not difficult to convert this to a concurrent algorithm; simply split the checklists up among the processors. Again, it will be convenient to assume that the number of processors is a power of 2, say 2^t. We now split each m-bit syndrome number into three parts: the top t bits give a processor number, the next $m - t - b$ bits give a word number for the part of the checklist within this processor, and the bottom b bits give a bit number within the word. The algorithm can be written out exactly as above; the only communications needed to get L_j from L_{j-1} are in the translation step when the top bits of d_l are not all 0. The fact that $\oplus$ acts on top bits, middle bits, and bottom bits separately means that each processor needs to communicate with only one other processor during this translation. On a hypercube architecture, each of the t top bits refers to communication along one of the t dimensions of the cube; if t' of the top t bits of d_l are 1, then the translation by d_l requires swaps along t' dimensions.

Certain manipulations of the matrix H do not change the covering radius of a code; these include row interchanges, column interchanges, and elementary row operations (but not elementary column operations). Therefore, one can preprocess H in order to reduce the number of nonzero top bits or bottom bits in the syndromes d_l. For example, one can arrange that the first m columns of H form an upper triangular matrix with all 1's above the diagonal (so d_l

only has one nonzero bit for $l \leq m$) and then sort the remaining columns by their top and/or bottom bits; the best thing to do depends on the machine one is using. Note that column interchanges would not be helpful if we were using the numbers h_l directly; this is why we use the differences d_l instead.

We have implemented this algorithm on several machines; in each case it was efficient enough that the main constraint on our computations was not the available CPU time but the size of main memory. The algorithm requires enough space for three checklists of 2^m bits apiece, plus a small amount of additional memory. For each machine, there were maximum numbers T, M, and B of top bits, middle bits, and bottom bits, respectively; this allowed covering radius computations for codes of codimension up to $T + M + B$. We have the program running on an IBM PC-compatible computer ($T = 2$, $M = 14$, $B = 4$; T is nonzero because the segmented memory prevents us from using $M = 16$), various Caltech hypercubes (a 32-node Mark III has $T = 5$, $M = 18$, and $B = 5$), and a 16K-node Connection Machine 2 ($T = M = 14$, $B = 0$). The PC-compatible took about 12 minutes to handle a [41, 21]6 code; an average [63, 35]9 code took about 80 minutes on the Mark III and 7 minutes on the CM-2. Note that the overall running time for the algorithm on a particular machine is basically $O(Rn2^m)$ (so the [63, 35]9 code requires about 600 times as much work as the [41, 21]6 code); differences based on the particular bits in the check matrix, rather than on its size, were a relatively minor factor in the computation times.

We performed a number of consistency checks to make sure that the programs were giving correct results. Of course, we ran some smaller codes for which we already knew the coset weight distributions, and we compared our results with those in previously published tables (Peterson and Weldon [24], Downey and Sloane [12]). We computed the parameters $R(C)$ and $e(C)$ (see Fact 9) and verified the following: $e(C_p) \leq e(C) \leq e(C_p) + 1$, $e(C) = e(C_s)$, $R(C_p) \leq R(C) \leq R(C_p) + 1$, $R(C) \leq R(C_s) < n$, and $R(C) \leq n/2$. Finally, we verified the properties listed in the next section for the relevant codes in the list.

We also implemented a backtrack search algorithm using the original definition of covering radius, in the hope that it would give useful results for codes of small dimension; it has given improved lower bounds for the covering radius of some codes, but it takes too long to run to completion (giving an exact value for R) in almost all cases.

5. Code list and composite codes

Because of the difficulties we have had in comparing our data to that in previously published tables (e.g., the table in Peterson and Weldon [24]), we have concluded that it will be useful to other researchers for us to include an explicit description of how we generated our list of cyclic codes.

A binary cyclic code of length n and dimension k is determined by a generating polynomial g, a polynomial over $GF(2)$ of degree $n - k$ which divides

$x^n - 1$. (If s is the sequence of $n - k + 1$ 0's and 1's giving the coefficients of g, then the code is generated by the vectors $0^i s 0^{k-1-i}$ for $0 \le i < k$.) If we write $n = n_o n_e$, where n_o is odd and n_e is a power of 2, then $x^n - 1 = (x^{n_o} - 1)^{n_e}$, where $x^{n_o} - 1$ has no repeated roots; in fact, if ζ is a primitive n_oth root of unity over $GF(2)$, then the roots of $x^{n_o} - 1$ are ζ^i for $0 \le i < n_o$. Two roots ζ^i and ζ^j are roots of the same irreducible factor of $x^{n_o} - 1$ if and only if $j \equiv 2^m i \pmod{n_o}$ for some m (and vice versa). This defines an equivalence relation on the set $\{0, 1, \dots, n_o - 1\}$; the equivalence classes for this relation are known as *cyclotomic cosets*. In order to specify the polynomial g, we must give a multiplicity (from 0 to n_e) for the roots corresponding to each cyclotomic coset. We can refer to a cyclotomic coset by giving its least member; hence, g can be represented by a list (with multiplicities and, for convenience, sorted in increasing order) of cyclotomic coset numbers.

The generating polynomial h for the dual code (also known as the *check polynomial* of the original code) has degree k and is related to g by the formula $x^k h(x^{-1}) g(x) = x^n - 1$.

Suppose g is given by a list l of cyclotomic coset numbers, and we obtain a new list l' as follows: fix some odd number m relatively prime to n_o, and get l' from l by replacing each number i with the least number equivalent to mi (and then sorting). If g' is the corresponding polynomial, then $g'(x) \equiv g(x^m)$ $\pmod{x^n - 1}$, so the code for g' can be obtained from the code for g by just permuting the coordinates (moving coordinate number i to the position of coordinate number $mi \bmod n$). Such codes are called *equivalent*; equivalent codes will have the same parameters, so we only need to work with one of them (say, the one whose root list comes first in lexicographic order). This also means that it did not matter which primitive n_oth root of unity we chose above.

To generate our list of codes, we started by generating all possible root lists, keeping only the first one in lexicographic order from each class of equivalent codes. For a given n, these were sorted primarily in decreasing order of k and secondarily in lexicographic order. (We did not sort on d because d could not be computed in advance.) We then eliminated certain trivial and composite codes. Consider the following list of possible properties of a code C given as above:

   (1) $k \le 1$.
   (2o) n and the listed root numbers have a common odd divisor $m > 1$.
   (2e) No root has multiplicity greater than $n_e/2$.
   (3o) n and the cyclotomic coset numbers which do not occur in the list with multiplicity n_e have a common odd divisor $m > 1$.
   (3e) All cyclotomic coset numbers occur in the list with multiplicity at least $n_e/2$.
   (4o) There is an odd number $m > 1$ dividing n_o such that $g(x)$ is of the form $g'(x^m)$ for some polynomial g'.
   (4e) All roots have even multiplicity.

In case (1), the code is trivial (either the all-0 vector and the all-1 vector, or just the all-0 vector). In each of the other six cases, the code is composite, obtained from a code of length $n' = n/m$, where we define m to be 2 in the "e" cases.

In cases (2o) and (2e), $g(x)$ divides $x^{n'} - 1$, so we can consider the cyclic code C' of length n' with generator polynomial g. Then a member of $GF(2)^n$ is in C if and only if, when it is broken up into m blocks of length n', the sum of these blocks is in C'. In other words, C is the inverse image of C' under the linear map from $GF(2)^n$ to $GF(2)^{n'}$ which divides a vector into m parts and adds them.

In cases (3o) and (3e), the check polynomial $h(x)$ divides $x^{n'} - 1$, so we can define C' to be the cyclic code of length n' with check polynomial $h(x)$. Then C is a repetition code based on C'; a member of $GF(2)^n$ is in C if and only if its m blocks of length n' are identical and in C'. Theorem 2 shows that the covering radius of a repetition code is close to half its length, so such codes are not of interest for covering radius studies. (Codes of type (3o) were left in our code list anyway, for reasons explained below.)

In cases (4o) and (4e), we have $g(x) = g'(x^m)$, and we can define C' to be the cyclic code of length n' with generating polynomial g'. Here we break a vector of length n into m pieces each of length n' by putting coordinates $0, m, 2m, \ldots$ in one piece, coordinates $1, m+1, 2m+1, \ldots$ in another piece, and so on; the vector is in C if and only if all these pieces are in C'. Hence, except for a rearrangement of coordinates, C is just the direct sum of m copies of C'.

Most of the parameters of composite codes can be obtained from those of the corresponding smaller codes as follows:

Theorem 2. *Suppose C is a binary linear code of length n, C' is a binary linear code of length n', and $n = mn'$, where $m > 1$.*

(a) If C is an m-ary inverse image of C' (i.e., a vector is in C if and only if, when it is broken into m parts of length n', the sum of those parts is in C'), then the covering radius and coset weight distribution of C are the same as those of C'; furthermore, $d(C) = \min(d(C'), 2)$, $R(C_p) = R(C'_p)$, $R(C_s) = R(C')$, and $N(C)$ is $2R(C) + 1$ if $R(C') = R(C'_p)$, $2R(C)$ otherwise (so C is always normal).

(b) If C is an m-fold repetition code based on C', then $d(C) = md(C')$. If C' has no identically-0 coordinates, then $\lfloor m/2 \rfloor n' + R(C') \le R(C) \le \lfloor n/2 \rfloor$ if m is odd and $R(C) = n/2$ if m is even; furthermore, when m is even, we have $N(C) = 2R(C) = n$ (so C is normal), $R(C_p) = n/2 - 1$, and $R(C_s) = (n' + z + 1)m/2 - 1$, where z is the number of coordinates at which C'_s is identically 0. (If C' is cyclic, then $z = 0$ unless C' is itself a repetition code, in which case $z = m' - 1$, where m' is the maximal repetition multiplicity of C'.)

(c) *If C is the direct sum of m copies of C', then $d(C) = d(C')$, $R(C) = mR(C')$, and if w and w' are the polynomials with coefficients given by the coset weight distributions of C and C', then $w = w'^m$. Also, $R(C_p) = R(C'_p) + (m-1)R(C')$, $R(C_s) = R(C'_s) + (m-1)R(C')$, and $N(C) = N(C') + 2(m-1)R(C')$ (so C is normal if and only if C' is normal).*

Note. In each case above, any coordinate of C corresponds to a particular coordinate of C'; when we make a statement such as $R(C_p) = R(C'_p)$, we mean that C' is to be punctured in the coordinate corresponding to the coordinate in which C is punctured. Shortened codes and norms are treated similarly.

Proof of Theorem 2. (a) Let $\psi : GF(2)^n \to GF(2)^{n'}$ be the linear map defined by $\psi(u)_j = \sum_{i \equiv j \pmod{n'}} u_i$. Then C is the inverse image of C' under ψ, and the cosets of C are just the inverse images of the cosets of C'. Clearly, $\mathrm{wt}(\psi(u)) \le \mathrm{wt}(u)$ (every nonzero $\psi(u)_j$ requires at least one corresponding nonzero u_i), while, for v of length n', $\mathrm{wt}(v) = \mathrm{wt}(v')$, where v' is v followed by $n - n'$ 0's (so $\psi(v') = v$). This shows that each coset of C has the same weight as the corresponding coset of C', so C and C' have the same coset weight distribution and hence the same covering radius. It is easy to verify that $d(C) = 1$ if and only if $d(C') = 1$, and that $d(C) \le 2$ in any case (the vector with 1's at coordinates 1 and $n'+1$ and 0's elsewhere is in C), so $d(C) = \min(d(C'), 2)$.

If we puncture C and C' at corresponding coordinates i and j, then we can define a linear map $\psi' : GF(2)^n \to GF(2)^{n'-1}$ by letting $\psi'(u)$ be $\psi(u)$ without coordinate j. Then $\psi'(u)$ will not depend on u_i, so we get an induced map $\psi'' : GF(2)^{n-1} \to GF(2)^{n'-1}$. It is easy to verify that C_p is the inverse image of C'_p under ψ'', so $R(C_p) = R(C'_p)$ as before.

If u has length n and $u_i = 0$, then we can convert $\psi(u)$ into a member of C' by modifying at most $R(C')$ coordinates. By doing corresponding modifications at coordinates of u other than u_i (which is possible because each coordinate of C' corresponds to more than one coordinate of C), we can convert u into a member of C which also is 0 at coordinate i. This shows that $R(C_s) \le R(C')$; since $R(C_s) \ge R(C)$, we have $R(C_s) = R(C')$. A similar argument shows that any u with $u_i = 1$ is within distance $R(C')$ of a member of C which is also 1 at coordinate i. It follows that $N(C) \le 2R(C) + 1$, so C is normal. If $R(C') = R(C'_p)$, we can choose u such that $d(\psi'(u), C'_p) = R(C)$; this implies $d(u, C_\varepsilon^{(i)}) \ge R(C)$ and $d(u, C_{1-\varepsilon}^{(i)}) \ge R(C) + 1$, where $\varepsilon = u_i$, so $N^{(i)}(C) = 2R(C) + 1$. On the other hand, if $R(C') > R(C'_p)$, then for any u we have $d(u, C_\varepsilon^{(i)}) \le R(C)$ and $d(u, C_{1-\varepsilon}^{(i)}) \le R(C) + 1$, and equality can never hold in both places because $d(\psi'(u), C'_p) < R(C)$, so $N^{(i)}(C) = 2R(C)$.

(b) If a word in C' has weight w, then the corresponding repeated word of C has weight mw, so $d(C) = md(C')$. If m is even and u consists of $n/2$ 1's followed by $n/2$ 0's, then u is at distance $n/2$ from any repeated word

at all, so $R(C) \geq n/2$. If m is odd and u' is at distance $R(C')$ from C', then the vector u consisting of u' followed by $n'(m-1)/2$ 1's followed by $n'(m-1)/2$ 0's must be at distance at least $R(C') + n'(m-1)/2$ from any repeated member of C' (one must change $R(C)$ of the first n' coordinates and $n'(m-1)/2$ of the rest), so $R(C) \geq R(C') + n'(m-1)/2$. For $N(C) \leq n$ and hence $R(C) \leq n/2$ when C has no identically-0 coordinates, see Graham and Sloane [14].

(Similar arguments appear in Graham and Sloane [14], Mattson [22], and Kilby and Sloane [19].)

Now assume m is even; then $N(C) \geq 2R(C) = n$, so $N(C) = n$. If C has no identically-0 coordinates, then neither does C_p, so $R(C) - 1 \leq R(C_p) \leq \lfloor (n-1)/2 \rfloor$, which gives $R(C_p) = n/2 - 1$. But C_s has exactly $(z+1)m - 1$ identically-0 coordinates, and what remains when these are deleted is another repetition code of multiplicity m, so $R(C_s) = (z+1)m - 1 + m(n'-z-1)/2 = m(n'+z+1)/2 - 1$.

(c) For $d(C) = d(C')$, note that any nonzero word in C must be nonzero in at least one of the m blocks of length n' and hence must have weight at least $d(C')$ in that block; on the other hand, one nonzero block will suffice. Each coset of C is a product of a sequence of m cosets of C', and the weight of the C-coset is clearly the sum of the weights of the C'-cosets; it is now easy to derive the relation between the coset weight polynomials of C and C', and the equation $R(C) = mR(C')$ follows immediately. The last three equations are easy to prove, using the fact that, when working with a particular coordinate of C, the block containing that coordinate can be manipulated independently of the remaining blocks. □

In our list of cyclic codes, we omitted those codes of types (1), (2o), (2e), (3e), and (4e); these can all easily be identified just by looking at n and the list of roots (but we did not do it manually, of course). Codes of types (3o) and (4o) are not so easily identified by inspection; one needs a list of cyclotomic coset numbers as well for (3o), and (4o) requires knowing which cyclotomic coset numbers have to have the same multiplicity in order for $g(x)$ to be of the form $g'(x^m)$. Furthermore, such codes were included in the published code lists we looked at. (We found no published lists of cyclic codes of even length, so we had no examples to go by there.) Therefore, we included these codes in our code list, and then verified the properties listed above to check the correctness of our computations; the property $w = w'^m$ for codes of type (4o) was an especially convincing test. (Table 1 indicates which codes are of types (3o) and (4o).)

6. RESULTS AND APPLICATIONS

The Appendix on microfiche consists of two long tables containing the results of our covering radius computations. Table 1 lists the cyclic codes of length at most 64 and codimension at most 28 (omitting the trivial or composite codes of

types (1), (2e), (2o), (3e), or (4e)), with the roots and the following parameters for each code: the minimum distance, the sphere-covering lower bound, the covering radii of the code and its punctured and shortened codes, and the norm (if known).

From the data, we conclude that all but eight of the cyclic codes for which we compute the covering radius are normal, and we determine the norm for all but seven of the normal ones (see §3 for details).

To compute the sphere-covering lower bound on the covering radius, we have applied Fact 4 to cyclic codes having 0 among their roots because such codes are even-weight codes. Note that Fact 4 gives a better lower bound (on the R of an even code) than Fact 3 for some codes, such as C_2^{12} and C_2^{15}.

Table 2 gives the coset weight distributions of the codes in the list and the corresponding punctured and shortened codes. As an application of these numbers, we determine the minimum distance d of a cyclic code C as follows: Let the distribution of coset weights of C be $\{\alpha_0, \alpha_1, \ldots, \alpha_n\}$. Let e be the largest integer such that $\alpha_i = \binom{n}{i}$ for $0 \leq i \leq e$. Then it is not difficult to see that d is either $2e+1$ or $2e+2$. Therefore, since e can be determined from Table 2, d can be determined to within 1. Since C is a cyclic code, C_p has minimum distance $d-1$. Therefore, if $e_p = e$ from Table 2, then $d = 2e+2$, and if $e_p = e-1$, then $d = 2e+1$. Once we determine d, we know that, since C is cyclic, the minimum distance of its shortened code C_s is also d.

We give the following applications of our results.

6.1. The amalgamated direct sum construction.
Suppose A is an $[n_1, k_1]R_1$ code and B is an $[n_2, k_2]R_2$ code. The *amalgamated direct sum* (ADS) of A and B, denoted $A \oplus B$ [14], is an $[n_1 + n_2 - 1, k_1 + k_2 - 1]$ code. As an application of normality, if A and B are normal, then $R(A \oplus B) \leq R(A) + R(B)$ [14]. As an application of norms, if we know that the normal codes A and B have even norms, then the upper bound on $R(A \oplus B)$ can be improved to $R(A \oplus B) = R(A) + R(B) - 1$, and the resulting code is normal [18].

Janwa and Mattson [18] give several applications of the covering radii of punctured and shortened codes in the ADS construction.

6.2. Improvements to the table of $t[n, k]$.
We show for twelve new values of n and k that the function $t[n, k]$ attains the sphere-covering lower bound. Thus, we give a dozen improvements in Table I of $t[n, k]$ in Graham and Sloane [14]. We also show that each of these covering radii is attained by a normal code; this lets us use the ADS construction to get good covering codes of larger lengths.

1. $t[49, 33] = t[50, 34] = t[51, 35] = 4$: Graham and Sloane [14] have $4 \leq t[n, k] \leq 5$ for each of these values of n and k. The [51, 35] cyclic code $C = C_8^{51}$ with roots 1, 9 has $R = 4$. By computation, $R(C_s) = R(C_{ss}) = 4$. Therefore, $t[49, 33] = t[50, 34] = t[51, 35] = 4$. Since $R(C_{sss}) = 5$, again by computation, the normality of the three codes follows from Proposition 1.

Note that the code C_{12p}^{51} also attains the bound $t[50, 34] = 4$. It is normal, since another computation shows that the covering radius of its shortened code is 4.

2. $t[52, 36] = 4$: If we add any column to a check matrix for C_8^{51}, then we get a $[52, 36]$ code C^+ whose covering radius is at most 4. Since $4 \leq t[52, 36] \leq 5$ [14], we conclude that $t[52, 36] = 4$. For the normality of C^+, observe that C_8^{51} is a shortened code of C^+.

3. $t[59 + i, 39 + i] = 5$ for $0 \leq i \leq 5$: Graham and Sloane [14] have $5 \leq t[n, k] \leq 6$ for each of these values of n and k. The $[59, 39]$ code C_{206p}^{60} has $R = 5$. Therefore, $t[59, 39] = 5$. If we take any check matrix for $D = C_{206p}^{60}$ and augment it by adjoining any i columns $(i \geq 0)$, we get a $[59 + i, 39 + i]$ code D_i with covering radius at most 5. Therefore, $t[59 + i, 39 + i] = 5$ for $1 \leq i \leq 5$. For normality of D_i $(1 \leq i \leq 5)$, note that D_{i-1} is its shortened code and apply Proposition 1.

The $[63, 43]$ cyclic code C_{162}^{63} with roots $1, 5, 21, 31$ also has $R = 5$. It is normal, because the covering radius of its shortened code is 6.

4. $t[63, 49] = t[64, 50] = 3$: Graham and Sloane [14] have $3 \leq t[n, k] \leq 4$ for each of these values of n and k. The $[63, 49]$ cyclic code C_{36}^{63} with roots $1, 5, 21$ has $R = 3$. Therefore, $t[63, 49] = 3$. It is normal, because its shortened code has $R = 4$. By adding a column to a check matrix for C_{36}^{63}, we get a $[64, 50]$ code with R at most 3. Thus, $t[64, 50] = 3$. It is normal because C_{36}^{63} is its shortened code.

We also have:

$$[15, 11]1 \oplus [49, 33]4 = [63, 43]5,$$
$$[16, 12]1 \oplus [49, 33]4 = [64, 44]5,$$
$$[15, 11]1 \oplus [50, 34]4 = [64, 44]5.$$

Theorem 19 from Graham and Sloane [14] implies that the resulting codes are normal.

Calderbank and Sloane [7] have also shown that $t[64, 44] = 5$, since $[42, 33]2 \oplus [23, 12]3 = [64, 44]5$. (For $t[42, 33] = 2$, see Brualdi, Pless, and Wilson [4].)

(*Note.* The $[42, 33]2$ code constructed by Brualdi, Pless, and Wilson [4] is normal by Proposition 2 (see also Calderbank and Sloane [7, p. 1280]). Therefore, by Theorem 20 of Graham and Sloane [14], there exists a $[43, 34]2$ normal code; since Graham and Sloane [14] give $2 \leq t[43, 34] \leq 3$, we must have $t[43, 34] = 2$.)

Our computations also show that many of the bounds given in [14], which were achieved by codes coming from an amalgamated direct sum construction, are in fact attained by cyclic codes, whose symmetry makes them easier to work with.

6.3. **Improved bounds on** $l(m, R)$. The results of §6.2 yield improvements in the known values of $l(m, R)$ [3] for the following three values of (m, R):

   1. $47 \leq l(14, 3) \leq 63$ (from $47 \leq l(14, 3) \leq 71$);
   2. $36 \leq l(16, 4) \leq 49$ (from $36 \leq l(16, 4) \leq 51$); and
   3. $43 \leq l(20, 5) \leq 59$ (from $43 \leq l(20, 5) \leq 63$).

6.4. **Improved bounds on** $d_{\max}(n, k)$.

Definition 1. For given n and k, let

$$d_{\max}(n, k) = \max\{d \mid \text{there exists an } [n, k, d] \text{ code}\}.$$

The latest table of upper and lower bounds on $d_{\max}(n, k)$ appears in Verhoeff [29].

Theorem 3. *We have the following four improvements of the lower bounds on* $d_{\max}(n, k)$:

   (i) $d_{\max}(45, 16) \geq 13$ *(from* 12*)*;
   (ii) $d_{\max}(46, 16) \geq 14$ *(from* 13*)*;
   (iii) $d_{\max}(51, 25) \geq 11$ *(from* 10*)*; *and*
   (iv) $d_{\max}(52, 25) \geq 12$ *(from* 11*)*.

For the proof we need the following lemma.

Lemma 1. *Let* C *be an* $[n, k, d]$ *code with* $R(C) \leq d$. *Then there exists an* $[n + d - R, k + 1, d]$ *code.*

Proof. Let x be a coset leader of C of weight R. We adjoin $d - R$ 1's to x to get the vector $x' = (x, 1, \ldots, 1)$. Let C' denote the code C extended by adjoining $d - R$ columns of zeros to C. Then $D = \langle C', x' \rangle$ is an $[n + d - R, k + 1, d]$ code. □

Proof of Theorem 3. (1) The code C_3^{43} is a $[43, 15, 13]11$ code. Therefore, by Lemma 1, there exists a $[45, 16, 13]$ code.

   (2) If we append an overall parity check to the $[45, 16, 13]$ code in (1), we get a $[46, 16, 14]$ code.

   (3) The quadratic residue code C_1^{47} is a $[47, 24, 11]7$ code ($R = 7$ was first proved by Delsarte [10]). Therefore, by Lemma 1, there exists a $[51, 25, 11]$ code.

   (4) Append an overall parity check to the $[52, 25, 11]$ code in (3). □

Codes which improve known bounds for $d_{\max}(n, k)$ often also improve known bounds for $r(n, d)$, which is defined to be the minimal redundancy of a binary code (linear or nonlinear) of length n and minimum distance d; the redundancy of a code of length n containing M code words is defined to be $n - \log_2 M$. The best known redundancies are tabulated in Zinov'ev and Litsyn [30], which gives the bounds $r(45, 13) \leq 29$, $r(46, 14) \leq 30$, $r(51, 11) \leq 27$, and $r(52, 12) \leq 28$. Theorem 3 improves the latter two of these to $r(51, 11) \leq 26$ and $r(52, 12) \leq 27$. It also gives linear codes meeting

the best known bounds for $r(45, 13)$ and $r(46, 14)$, whereas the only previously known codes meeting these bounds were nonlinear [30].

Remark 1. The vector $1^5 0^2 1^3 0^6 10^3 10^3 10^{18}$ is a coset leader of C_3^{43} of weight 11. A check matrix for this code was generated by cyclic shifts of the vector $10^{27} 101^3 0^2 1^2 0^2 1^3 0$.

From C_3^{43} we generated a [45, 16, 13] code using the method outlined in the proof of Lemma 1. The weight distribution of the resulting [45, 16, 13] code is: $A_0 = 1$, $A_{13} = 318$, $A_{14} = 415$, $A_{15} = 453$, $A_{16} = 1515$, $A_{17} = 2105$, $A_{18} = 3067$, $A_{19} = 4800$, $A_{20} = 5554$, $A_{21} = 6938$, $A_{22} = 7540$, $A_{23} = 7372$, $A_{24} = 7372$, $A_{25} = 5648$, $A_{26} = 4444$, $A_{27} = 3447$, $A_{28} = 1790$, $A_{29} = 1304$, $A_{30} = 901$, $A_{31} = 311$, $A_{32} = 152$, $A_{33} = 71$, $A_{34} = 17$, $A_{43} = 1$. Here, A_i denotes the number of codewords of weight i; only nonzero A_i are listed.

The vector $1^6 0^3 10^{37}$ is a coset leader of C_1^{47} of weight 7. A check matrix for C_1^{47} was generated by cyclic shifts of the vector $10^{22} 10^3 1^2 0^2 1^2 01^2 0^2 10^2 1010^2 1$.

The weight distribution of the resulting [51, 25, 11] code is: $A_0 = 1$, $A_{11} = 4333$, $A_{12} = 13017$, $A_{13} = 160$, $A_{14} = 608$, $A_{15} = 180433$, $A_{16} = 362934$, $A_{17} = 16800$, $A_{18} = 40800$, $A_{19} = 1754332$, $A_{20} = 2509820$, $A_{21} = 326688$, $A_{22} = 544480$, $A_{23} = 4672220$, $A_{24} = 5004772$, $A_{25} = 1496352$, $A_{26} = 1768416$, $A_{27} = 4252526$, $A_{28} = 3586630$, $A_{29} = 1768416$, $A_{30} = 1496352$, $A_{31} = 1520662$, $A_{32} = 1009745$, $A_{33} = 544480$, $A_{34} = 326688$, $A_{35} = 192156$, $A_{36} = 93916$, $A_{37} = 40800$, $A_{38} = 16800$, $A_{39} = 6204$, $A_{40} = 2068$, $A_{41} = 608$, $A_{42} = 160$, $A_{43} = 45$, $A_{44} = 9$, $A_{47} = 1$.

6.5. New quasi-perfect codes.

The following codes are quasi-perfect (i.e., $R = e + 1$) and could be added to the list of quasi-perfect codes in Peterson and Weldon [24, p. 122]: C_{1p}^7, C_{2p}^7, C_{2p}^9, C_{1p}^{12}, C_{1p}^{14}, C_{2p}^{14}, C_{1p}^{15}, C_{2p}^{15}, C_{4p}^{15}, C_{10p}^{15}, C_1^{21}, C_{1s}^{21}, C_{2p}^{21}, C_3^{21}, C_{3s}^{21}, C_{4p}^{21}, C_9^{21}, C_{1p}^{28}, C_{1p}^{30}, C_{5p}^{30}, C_{6p}^{30}, C_{2p}^{31}, C_{2p}^{31}, C_{1p}^{33}, C_{1p}^{35}, C_{1p}^{42}, C_2^{42}, C_{2s}^{42}, C_{3p}^{42}, C_{4p}^{42}, C_5^{42}, C_{5s}^{42}, C_{7p}^{42}, C_{1s}^{51}, C_{2p}^{51}, C_{1p}^{60}, C_{1p}^{62}, C_{2p}^{62}, C_{1p}^{63}, C_{2p}^{63}, C_{6p}^{63}, C_{32p}^{63}, and C_{36}^{63}.

The following codes are known to be quasi-perfect, and we verify this: C_4^{31} and C_5^{31} [11]; C_1^{51} [16]; C_7^{15}, C_1^{17}, and C_1^{23} [24, pp. 122–123]; C_1^7, C_1^{15}, C_1^{31}, C_3^{31}, C_1^{63}, and C_{17}^{63} [8]; C_1^{23} [5]; and C_{1p}^7, C_{1s}^{15}, C_{1s}^{31}, and C_{1s}^{63} [17].

Of these quasi-perfect codes, the following are uniformly packed (i.e., for these codes equality holds in Fact 5) and could be added to the lists of uniformly packed codes in Calderbank and Kantor [6, pp. 117–118] and Brouwer, Cohen, and Neumaier [2, pp. 355–357]; C_{2p}^7, C_{1p}^{12}, C_{1p}^{15}, C_{2p}^{15}, C_3^{21}, C_9^{21}, C_{1p}^{23}, C_{1p}^{31}, C_{2p}^{31}, C_4^{31}, C_{1s}^{51}, C_{1p}^{60}, C_{1p}^{63}, and C_{2p}^{63}.

The cyclic code C_1^{17} [24, p. 122], the punctured Golay code C_{1p}^{23} [5], the code C_1^{51} [16], 2-error-correcting BCH codes of lengths $2^{2m+1} - 1$ (including C_3^{31}) [20], and the shortened subcodes of the Hamming perfect codes (including C_{1s}^7, C_{1s}^{15}, C_{1s}^{31}, and C_{1s}^{63}) [18] are known to be uniformly packed.

Calderbank and Goethals [5] prove that any uniformly packed code of length 21 has the same parameters as the code obtained by puncturing the Golay code C_1^{23} twice. One such code is C_9^{21} in our list. It is natural to conjecture that there is only one uniformly packed code of length 21; J. I. Hall informs us that this is indeed the case.

For connection between uniformly packed codes, strongly regular graphs, and other combinatorial structures, see Chapter 11 of Brouwer, Cohen, and Neumaier [2].

6.6. Equivalence of codes.

Since equivalent linear codes have the same parameters given in Tables 1 and 2, our computations can be used to show nonequivalence of cyclic codes or their punctured or shortened codes. We illustrate this by completing the classification of all *cyclic self-dual* codes of length n up to 60 begun in Sloane and Thompson [27]. In that paper, an upper bound on the number $c(n)$ of nontrivial, nonequivalent cyclic self-dual codes of length n is given. It is shown there that for $n \leq 54$, only $c(42)$ is not precisely known and that $1 \leq c(42) \leq 4$. The upper bound is given by the four codes C_{133}^{42}, C_{134}^{42}, C_{136}^{42}, and C_{137}^{42}. Since their respective parameters (d, R) are different, we conclude that $c(42) = 4$.

From the upper bound on $c(n)$ mentioned above, we also conclude that $1 \leq c(56) \leq 4$ and $1 \leq c(60) \leq 2$. For $n = 56$ the upper bound is given by the four cyclic codes C_{106}^{56}, C_{107}^{56}, A, and B, where A is a direct sum code with roots $0^4 1^8$ and B is a direct sum code with roots $0^4 1^6 3^2$. From Table 1, we have $d(C_{106}^{56}) = 6$ and $d(C_{107}^{56}) = 4$, and from §5 we have $d(A) = d(C_2^{14}) = 4$ and $d(B) = d(C_{16}^{28}) = 4$. Also, $R(A) = 4R(C_2^{14}) = 12$, $R(B) = 2R(C_{16}^{28}) = 14$, and $R(C_{107}^{56}) = 14$. To distinguish B from C_{107}^{56}, note that the number of cosets of weight 2 is 1498 for B and 1435 for C_{107}^{56} (see Table 2 and §5). Therefore, the four codes are nonequivalent, so $c(56) = 4$. For $n = 60$ the two distinct nontrivial cyclic self-dual codes are a code C with roots $0^2 1^3 3^2 5^2 7$ and a direct sum code D with roots $0^2 1^4 3^2 5^2$. By computation, $R(C) = 15$, while from §5, $R(D) = 2R(C_{42}^{30}) = 14$. Therefore, $c(60) = 2$.

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Appendix -- Results of covering radius computations

This appendix consists of two long tables containing the results of our covering radius computations. Table 1 lists the nontrivial codes of length at most 64 and codimension at most 28, with the roots and computed parameters for each code; Table 2 gives the coset weight distributions of each cyclic, punctured cyclic, or shortened cyclic code.

The columns of these tables are as follows:

        n - the length of the cyclic code
        # - a code number for each cyclic code of length n, from 1 to
           whatever
        k - the dimension of the cyclic code
        d - the minimum distance of the cyclic code
       Sp - the sphere-covering lower bound for R (followed by an
          equals sign if the bound is attained for this code)
        R - the covering radius of the cyclic code
       Rp - the covering radius of the punctured cyclic code
       Rs - the covering radius of the shortened cyclic code
       N - the norm of the code (if known; an entry 'N' means that the
          code is normal but the norm is not known)
     Comp - if the code is composite of type (3o) or (4o), then the entry
          here has the form <multiple><R or S><codenum>, meaning that
          the code is a Repetition or direct Sum of <multiple> copies of
          code number <codenum> of length n/<multiple> (<codenum> is
          given as - if the code of length n/<multiple> is not on the
          list because it is trivial or composite)
    Roots - the list of root numbers (exponents of the primitive root of
          unity over GF(2)) for the generator polynomial of the cyclic
          code
        T - the letter C, P, or S, for a Cyclic, Punctured cyclic, or
          Shortened cyclic code
Coset weights - the coset weight distribution of the code

Each covering radius which matches the best known upper bound for
t[n,k] (from the table in Graham and Sloane (1985), the new values in
Calderbank and Sloane (1988), and our own improvements in Section 6.2)
is marked with an asterisk.

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
7	1	4	3	1=	1*	1*	2*	3		1
7	2	3	4	3=	3	2*	3	6		0 1
9	1	3	3	3=	3*	3*	4	7	3R-	1
9	2	2	6	4=	4*	3*	5	8	3R-	0 1
12	1	7	4	3=	3	2*	3	6		0 0 0 1
12	2	6	4	3	4	3	4	8		0 0 0 0 1
12	3	6	3	2	3*	2*	3*	6		1 1 1
12	4	5	4	3	4	3*	4	8		0 1 1 1
12	5	3	6	5=	5*	4*	6	10	3R-	0 1 1 1 1
14	1	9	4	3=	3	2*	4	6		0 0 1
14	2	7	4	3=	3*	2*	4	6		0 1 1
14	3	5	6	4=	4*	4*	5	9		1 1 3
15	1	11	3	1=	1*	1*	2*	3		1
15	2	10	4	3=	3	2*	3	6		0 1
15	3	9	3	2	3	2*	3	6		1 5
15	4	9	4	2	3	2*	3	6		3 5
15	5	8	4	3	4	3	4	8		0 1 5
15	6	8	4	3	5	4	5	10		0 3 5
15	7	7	5	3=	3*	3*	4	7		1 3
15	8	7	3	3=	3*	3*	4	7		1 7
15	9	6	6	4	5	4	5	10		0 1 3
15	10	6	6	4=	4*	3*	5	8		0 1 7
15	11	5	7	4	5*	4*	6	10		1 3 5
15	12	5	3	4	5*	5	6	11	3R-	1 5 7
15	13	4	8	5	7	6	7	14		0 1 3 5
15	14	4	6	5	6	5*	7	12	3R-	0 1 5 7
15	15	3	5	5	6*	6*	8	13	5R-	1 3 7
15	16	2	10	7=	7*	6*	9	14	5R-	0 1 3 7
17	1	9	5	3=	3*	3*	4	7		1
17	2	8	6	4	5	4	5	10		0 1
18	1	10	4	3	4	3*	4	8		0 0 1
18	2	8	4	4	5	4*	5	10		1 3 3
18	3	5	6	6	7	6*	8	14	3R-	0 1 1
18	4	4	6	6	7*	7	8	15	3R-	1 1 3
20	1	13	4	3	5	4	5	10		0 0 0 1
20	2	12	4	3	5	4	5	10		0 0 0 0 1
20	3	8	4	4	5*	5*	6	11		1 1 1
20	4	7	4	5	7	6	7	14		0 1 1 1
20	5	3	10	8	9*	8*	11	18	5R-	0 1 1 1 1
21	1	16	3	2=	2*	2	2*	5		3 7
21	2	15	4	3=	3	2*	3	6		0 3 7
21	3	15	3	2=	2*	2*	2*	5		1
21	4	14	4	3=	3	2*	3	6		0 1
21	5	13	3	3=	3*	3	4	7		1 7
21	6	13	4	3=	3*	3	3*	7		3 7 9
21	7	12	4	4=	4	3*	5	8		0 1 7
21	8	12	4	4	7	6	7	14		0 3 7 9
21	9	12	5	3=	3*	3*	4	7		1 3
21	10	12	3	3=	3*	3*	4	7	3S1	1 9
21	11	11	6	4	5	4	5	10		0 1 3
21	12	11	4	4=	4*	3*	5	8		0 1 9
21	13	10	5	4	6	5	6	12		1 3 7
21	14	10	4	4=	4*	4*	5	9		1 7 9
21	15	9	5	5	7	6	7	14		0 1 3 7
21	16	9	4	5	9	8	9	18	3S2	0 1 7 9
21	17	9	6	4	5*	5	5*	11		1 3 9
21	18	9	3	4	5*	5	5*	11		1 5
21	19	8	6	5	7	6	7	14		0 1 3 9
21	20	8	6	5	6	5*	6	12		0 1 5
21	21	7	8	5	6*	6	8	13		1 3 7 9

Table 1

n	ө	k	d	Sp	R	Rp	Rs	N	Comp	Roots
21	22	7	3	5	7	7	8	15	3R-	1 5 7
21	23	6	8	6	9	8	9	18		0 1 3 7 9
21	24	6	6	6	8	7	9	16	3R-	0 1 5 7
21	25	6	7	6-	6*	6*	7*	13		1 3 5
21	26	5	10	7	8*	7*	9	16		0 1 3 5
21	27	4	9	7	8*	8*	10	17	3R1	1 3 5 7
21	28	3	12	8	10	9*	11	20	3R2	0 1 3 5 7
21	29	3	7	8	9*	9*	12	19	7R-	1 3 5 9
21	30	2	14	9	10*	9*	13	20	7R-	0 1 3 5 9
23	1	12	7	3-	3*	3*	6	7		1
23	2	11	8	5	7	6	7	14		0 1
24	1	17	4	3	4	3	4	8		0 0 0 0 0 1
24	2	16	4	3	4	3.	4	8		0 0 0 0 0 0 1
24	3	15	4	3	4	3*	4	8		0 0 0 0 0 0 0 1
24	4	15	4	3	6	5	6	12		0 0 0 0 0 1 1
24	5	14	4	4	8	7	8	16		0 0 0 0 0 0 0 1
24	6	14	3	3	5	4	5	10		1 1 1 1 1
24	7	13	4	4	6	5	6	12		0 0 0 0 0 0 1 2
24	8	13	4	4	6	5	6	12		0 0 0 0 0 1 1 1
24	9	13	4	4	6	5	6	12		0 1 1 1 1 1
24	10	12	4	4	6	5	7	12		0 0 0 0 0 0 1 1 1
24	11	12	4	4	6	5.	6	12		0 0 1 1 1 1 1
24	12	11	4	4	5	5*	7	12		0 0 0 0 0 0 1 1 1
24	13	11	4	5	6	5*	7	12		0 0 0 1 1 1 1 1
24	14	11	4	5	7	6	7	14		0 1 1 1 1 1 1
24	15	10	4	5	8	7	8	16		0 0 0 0 0 0 0 1 1 1
24	16	10	3	5	6*	5*	6*	12		1 1 1 1 1 1 1
24	17	9	4	6	8	7	8	16		0 0 0 1 1 1 1 1 1
24	18	9	6	6	7	6*	7	14		0 1 1 1 1 1 1 1
24	19	8	6	6	8	7	9	16		0 1 1 1 1 1 1 1
24	20	7	6	7	8	7*	9	16		0 0 0 1 1 1 1 1 1
24	21	7	6	7	9	8	10	18	3R-	0 1 1 1 1 1 1 1 1
24	22	5	6	8	10	9*	11	20	3R-	0 0 0 1 1 1 1 1 1 1 1
25	1	5	5	8	10*	10	12	21	5R-	1
25	2	4	10	9	11	10*	13	22	5R-	0 1
27	1	9	3	6	9	9	10	19	3R-	1
27	2	8	6	7	10	9	11	20	3R-	0 1
27	3	7	6	7	10	10	11	21	3R-	1 9
27	4	6	6	9	12	11	13	24	3R-	0 1 9
27	5	3	9	11	12*	12*	16	25	9R-	1 3
27	6	2	18	12	13*	12*	17	26	9R-	0 1 3
28	1	22	4	3-	3	2*	3	6		0 0 0 1
28	2	21	4	3	4	3	4	8		0 0 0 0 1
28	3	19	4	3	6	5	6	12		0 0 0 1 1
28	4	19	4	3	7	6	7	14		0 0 0 1 3
28	5	19	3	3-	3*	3	3*	7		1 1 1
28	6	18	4	4	7	6	7	14		0 0 0 0 1 3
28	7	18	4	4-	4	3*	4	8		0 1 1 1
28	8	17	4	4	6	5	6	12		0 0 1 1 1
28	9	16	4	4	6	5	6	12		0 0 0 1 1 1
28	10	16	4	4	7	6	7	14		0 0 0 1 3
28	11	16	4	4	5	4	5	10		1 1 1 3
28	12	15	4	5	6	5	6	12		0 0 0 0 1 1 1
28	13	15	4	5	7	6	7	14		0 0 0 0 1 1 3
28	14	15	4	5-	5	4*	6	10		0 1 1 1 1
28	15	15	4	5	7	6	7	14		0 1 1 1 3
28	16	14	4	5	7	6	7	14		0 0 1 1 1 3
28	17	13	4	5	6	5*	7	12		0 0 0 1 1 1 1
28	18	13	4	5	7	6	7	14		0 0 0 1 1 1 3
28	19	13	6	5	6	6	6	13		1 1 1 1 3

Table 1 (continued)

n	e	k	d	Sp	R	Rp	Rs	N	Comp	Roots
21	22	7	3	5	7	7	8	15	3R-	1 5 7
21	23	6	8	6	9	8	9	18		0 1 3 7 9
21	24	6	6	6	8	7	9	16	3R-	0 1 5 7
21	25	6	7	6-	6•	6•	7•	13		1 3 5
21	26	5	10	7	8•	7•	9	16		0 1 3 5
21	27	4	9	7	8•	8•	10	17	3R1	1 3 5 7
21	28	3	12	8	10	9•	11	20	3R2	0 1 3 5 7
21	29	3	7	8	9•	9•	12	19	7R-	1 3 5 9
21	30	2	14	9	10•	9•	13	20	7R-	0 1 3 5 9
23	1	12	7	3-	3•	3•	6	7		1
23	2	11	8	5	7	6	7	14		0 1
24	1	17	4	3	4	3	4	8		0 0 0 0 0 1
24	2	16	4	3	4	3	4	8		0 0 0 0 0 0 1
24	3	15	4	3	4	3•	4	8		0 0 0 0 0 0 0 1
24	4	15	4	3	6	5	6	12		0 0 0 0 0 1 1
24	5	14	4	4	8	7	8	16		0 0 0 0 0 0 0 0 1
24	6	14	3	3	5	4	5	10		1 1 1 1 1
24	7	13	4	4	6	5	6	12		0 0 0 0 0 0 0 1 2
24	8	13	4	4	6	5	6	12		0 0 0 0 0 1 1 1
24	9	13	4	4	6	5	6	12		0 1 1 1 1 1
24	10	12	4	4	6	5	7	12		0 0 0 0 0 1 1 1
24	11	12	4	4	6	5	6	12		0 0 1 1 1 1 1
24	12	11	4	5	6	5•	7	12		0 0 0 0 0 0 0 1 1 1
24	13	11	4	5	6	5•	7	12		0 0 0 1 1 1 1 1
24	14	11	4	5	7	6	7	14		0 1 1 1 1 1 1
24	15	10	4	5	8	7	8	16		0 0 0 0 0 0 0 0 1 1 1
24	16	10	3	5	6•	5•	6•	12		1 1 1 1 1 1 1
24	17	9	4	6	8	7•	8	16		0 0 0 1 1 1 1 1 1
24	18	9	6	6	7	6•	7	14		0 1 1 1 1 1 1 1
24	19	8	6	6	8	7	9	16		0 0 1 1 1 1 1 1 1
24	20	7	6	7	8	7•	9	16		0 0 0 1 1 1 1 1 1 1
24	21	7	6	7	9	8	10	18	3R-	0 1 1 1 1 1 1 1 1
24	22	5	6	8	10	9•	11	20	3R-	0 0 0 1 1 1 1 1 1 1 1
25	1	5	5	8	10•	10	12	21	5R-	1
25	2	4	10	9	11	10•	13	22	5R-	0 1
27	1	9	3	6	9	9	10	19	3R-	1
27	2	8	6	7	10	9	11	20	3R-	0 1
27	3	7	6	7	10	10	11	21	3R-	1 9
27	4	6	6	9	12	11	13	24	3R-	0 1 9
27	5	3	9	11	12•	12•	16	25	9R-	1 3
27	6	2	10	12	13•	12•	17	26	9R-	0 1 3
28	1	22	4	3-	3	2•	3	6		0 0 0 1
28	2	21	4	3	4	3	4	8		0 0 0 0 1
28	3	19	4	3	6	5	6	12		0 0 0 1 1
28	4	19	4	3	7	6	7	14		0 0 0 1 3
28	5	19	3	3-	3•	3	3•	7		1 1 1
28	6	18	4	4	7	6	7	14		0 0 0 0 1 3
28	7	18	4	4-	4	3•	4	8		0 1 1 1
28	8	17	4	4	6	5	6	12		0 0 1 1 1
28	9	16	4	4	6	5	6	12		0 0 0 1 1 1
28	10	16	4	4	7	6	7	14		0 0 0 1 1 3
28	11	16	4	4	5	4	5	10		1 1 1 3
28	12	15	4	5	6	5	6	12		0 0 0 0 1 1 1
28	13	15	4	5	7	6	7	14		0 0 0 0 1 1 3
28	14	15	4	5-	5	4•	6	10		0 1 1 1 1
28	15	15	4	5	7	6	7	14		0 1 1 1 : 3
28	16	14	4	5	7	6	7	14		0 0 1 1 1 3
28	17	13	4	5	6	5•	7	12		0 0 0 1 1 1 1
28	18	13	4	5	7	6	7	14		0 0 0 1 1 1 3
28	19	13	6	5	6	6	6	13		1 1 1 1 3

Table 1 (continued)

n	θ	k	d	Sp	R	Rp	Rs	N	Comp	Roots
30	48	14	6	5	6*	6	7	13		1 1 3 5 5
30	49	14	5	5	6*	6	7	13		1 1 3 7
30	50	14	3	5	6*	6	7	13		1 1 5 5 7
30	51	14	7	5	6*	6	6*	13		1 3 3 5 5
30	52	14	4	5	7	7	7	15		1 3 3 7
30	53	14	4	5	7	7	8	15		1 3 5 5 7
30	54	13	6	6	7	6*	8	14		0 1 1 3 3
30	55	13	6	6	7	6*	8	14		0 1 1 3 5 5
30	56	13	6	6	7	6*	8	14		0 1 1 3 7
30	57	13	6	6	7	6*	8	14		0 1 1 5 5 7
30	58	13	6	6	7	6*	8	14		0 1 1 7 7
30	59	13	8	6	7	6*	7	14		0 1 3 3 5 5
30	60	13	4	6	8	7	8	16		0 1 3 3 7
30	61	12	8	6	9	8	9	18		0 0 1 1 3 5 5
30	62	12	8	6	8	7	8	16		0 0 1 1 3 7
30	63	12	6	6	9	8	9	18		0 0 1 1 5 5 7
30	64	12	8	6	10	9	10	20		0 0 1 3 3 5 5
30	65	12	4	6	10	9	10	20		0 0 1 3 3 7
30	66	12	7	6	8	7	9	N		1 1 3 3 5
30	67	12	6	6	8	8	8	17		1 1 3 5 7
30	68	12	3	6	7*	7	7*	15		1 1 5 7 7
30	69	12	4	6	9	9	9	19		1 3 3 5 7
30	70	11	8	7	9	8	10	18		0 1 1 3 3 5
30	71	11	6	7	8	7*	8*	16		0 1 1 5 7 7
30	72	10	8	7	11	10	11	22		0 0 1 1 3 3 5
30	73	10	6	7	9	8*	9	18		0 0 1 1 5 7 7
30	74	10	5	7	8*	8*	9	17		1 1 3 3 7
30	75	10	6	7	8*	8*	9	17		1 1 3 5 5 7
30	76	10	5	7	9	8*	9	18		1 1 3 7 7
30	77	10	8	7	9	9	9	19		1 3 3 5 5 7
30	78	9	8	8	11	10	12	22		0 1 1 3 3 5 5
30	79	9	10	8	9*	8*	10	18		0 1 1 3 3 7
30	80	9	6	8	10	9	10	20		0 1 1 3 7 7
30	81	9	6	8	11	10	12	22	3R-	0 1 1 5 5 7 7
30	82	8	10	8	10*	9*	11	20		0 0 1 1 3 3 7
30	83	8	10	8	10*	9*	11	20		0 0 1 1 3 7 7
30	84	8	10	8	10*	10	11	21		1 1 3 3 5 7
30	85	8	6	8	10*	10	11	21		1 1 3 5 7 7
30	86	6	14	9	11*	10*	13			1 1 3 3 5 5 7
30	87	6	6	9	12	12	13	25	3R-	1 1 3 5 5 7 7
30	88	5	10	11	13	12*	15	26	5R-	0 1 1 3 3 7 7
30	89	4	10	11	13*	13	15	27	5R-	1 1 3 3 5 7 7
31	1	26	3	1-	1*	1*	2*	3		1
31	2	25	4	3-	3	2*	3	6		0 1
31	3	21	5	3-	3*	3*	4	7		1 3
31	4	21	5	3-	3*	3*	4	7		1 5
31	5	21	5	3-	3*	3*	4	7		1 15
31	6	20	6	4	5	4	5	10		0 1 3
31	7	20	6	4	5	4	5	10		0 1 5
31	8	20	6	4	5	4	5	10		0 1 15
31	9	16	7	4	5*	5	6	11		1 3 5
31	10	16	6	4	5*	5	6	11		1 3 7
31	11	16	5	4	5*	5	6	11		1 3 15
31	12	16	7	4	5*	5	6	11		1 5 7
31	13	15	8	6	7	6	7	14		0 1 3 5
31	14	15	6	6	9	8	9	18		0 1 3 7
31	15	15	8	6-	6	5*	7	12		0 1 3 15
31	16	15	8	6	7	6	7	14		0 1 5 7
31	17	11	11	7-	7*	7*	10			1 3 5 7
31	18	11	11	7-	7*	7*	10			1 3 5 11

Table 1 (continued)

n	e	k	d	Sp	R	Rp	Rs	N	Comp	Roots
31	19	11	10	7	8	8	9	17		1 3 7 15
31	20	10	12	8	11	10	11	22		0 1 3 5 7
31	21	10	12	8	11	10	11	22		0 1 3 5 11
31	22	10	10	8	11	10	11	22		0 1 3 7 15
31	23	6	15	10	11*	11*	14			1 3 5 7 11
31	24	5	16	11	15	14	15	30		0 1 3 5 7 11
33	1	23	3	3-	3*	3*	3*	7		1
33	2	22	6	4-	4	3*	5	8		0 1
33	3	21	3	3	5	4	5	10		1 11
33	4	21	4	3	5	5	5	11		3 11
33	5	20	6	4	6	5	6	12		0 1 11
33	6	20	4	4	11	10	11	22		0 3 11
33	7	13	10	6	8	7*	9	N		1 3
33	8	13	3	6	8	8*	8	17		1 5
33	9	12	10	7	11	10	11	22		0 1 3
33	10	12	6	7	9	8	9	18		0 1 5
33	11	11	11	7	10	9	10	20		1 3 11
33	12	11	3	7	11	11	12	23	3R-	1 5 11
33	13	10	12	8	11	10	11	22		0 1 3 11
33	14	10	6	8	12	11	13	24	3R-	0 1 5 11
34	1	24	4	3	5	4	5	10		0 0 1
34	2	17	6	6	7	6	8	14		0 1 1
34	3	10	10	8	10*	10*	10*	21		1 1 3
35	1	28	4	2	3	2*	3	6		5 7
35	2	27	4	3	5	4	5	10		0 5 7
35	3	25	4	3	5	4	5	10		5 7 15
35	4	24	4	4	7	6	7	14		0 5 7 15
35	5	23	3	3	4*	4	4*	9		1
35	6	22	4	4	5	4*	5	10		0 1
35	7	20	6	4	5*	5	5*	11		1 15
35	8	20	3	4	5*	5	6	11	5S1	1 15
35	9	19	6	5	7	6	7	14		0 1 5
35	10	19	4	5	6	5*	7	12		0 1 15
35	11	19	4	5	6	6	7	13		1 7
35	12	18	4	6	8	7	8	16		0 1 7
35	13	17	6	5	7	7	7	15		1 5 15
35	14	16	6	6	8	7	9	16		0 1 5 15
35	15	16	7	6	7*	7	8	15		1 5 7
35	16	16	4	6	7*	7	8	15		1 7 15
35	17	15	8	7	9	8	9	18		0 1 5 7
35	18	15	4	7	15	14	15	30	5S2	0 1 7 15
35	19	13	8	7	9	9	10	19		1 5 7 15
35	20	12	9	8	15	14	15	30		0 1 5 7 15
35	21	11	5	8	10	10	10*	21		1 3
35	22	10	10	9	11*	10*	11*	22		0 1 3
35	23	8	7	10	12*	12*	13	25		1 3 5
35	24	7	14	11	13*	12*	14	26		0 1 3 5
35	25	7	5	10	14	14	16	29	5R-	1 3 7
36	1	27	4	3	4	3	4	8		0 0 0 1
36	2	26	4	3	4	3*	4	8		0 0 0 0 1
36	3	25	4	4	9	8	9	18		0 0 0 1 3
36	4	24	4	4	9	8	9	18		0 0 0 0 1 3
36	5	24	4	3	5	4	5	10		1 3 3 3
36	6	23	4	4	9	8	9	18		0 0 0 1 3 3
36	7	23	4	4	9	8	9	18		0 1 3 3 3
36	8	22	4	5	9	8	9	18		0 0 0 0 1 3 3
36	9	22	4	5	9	8	9	18		0 0 1 3 3 3
36	10	22	4	4	6	6	6	13		1 3 3 3 3
36	11	21	4	5	8	7	8	16		0 0 0 1 1
36	12	21	4	5	9	8	9	18	3S1	0 0 0 1 3 3 3

Table 1 (continued)

n	*	k	d	Sp	R	Rp	Rs	W	Comp	Roots
36	13	21	4	5	9	8	9	18		0 1 3 3 3 3
36	14	20	4	5	9	8	9	18		0 0 0 1 3 3 3
36	15	20	4	5	9	8	9	18		0 0 1 3 3 3 3
36	16	19	4	6	9	8	9	18		0 0 0 1 1 3
36	17	19	4	6	9	8	9	18		0 0 0 1 3 3 3 3
36	18	18	4	6	9	8	9	18		0 0 0 0 1 1 3
36	19	18	4	6	12	11	12	24	3S2	0 0 0 0 1 3 3 3 3
36	20	18	3	5	9	8	9	18	3S3	1 1 1
36	21	18	4	5	8	8	8	17		1 1 3 3 3
36	22	17	4	6	10	9	10	20		0 1 1 1
36	23	17	4	6	9	8	9	18		0 1 1 3 3 3
36	24	16	4	7	10	9	10	20		0 0 1 1 1
36	25	16	4	6	10	9	10	20		1 1 1 3
36	26	15	4	7	10	9	10	20		0 0 0 1 1 1
36	27	15	4	7	12	11	12	24	3S4	0 1 1 1 3
36	28	15	4	7	11	10	11	22		0 1 1 3 3 3 3
36	29	14	6	8	10	9	10	20		0 0 0 0 1 1 1
36	30	14	4	8	12	11	12	24		0 0 1 1 1 3
36	31	14	4	7	10	10	10	21		1 1 1 3 3
36	32	13	4	8	12	11	12	24		0 0 0 1 1 1 3
36	33	13	4	8	12	11	12	24		0 1 1 1 3 3
36	34	12	8	8	12	11	12	24		0 0 0 0 1 1 1 3
36	35	12	4	8	10	10	11	21		1 1 1 3 3 3
36	36	11	6	9	13	12	14	26	3R-	0 1 1 1 1
36	37	11	4	9	13	12	13	26		0 1 1 1 3 3 3
36	38	10	6	9	13	13	14	27	3R-	1 1 1 1 3
36	39	10	8	9	11*	11*	12	23		1 1 1 3 3 3 3
36	40	9	6	10	14	13	15	28	3R-	0 0 0 1 1 1 1
36	41	9	6	10	15	14	16	30	3R-	0 1 1 1 1 3
36	42	9	8	10	13	12	13	26		0 1 1 1 3 3 3 3
36	43	8	6	11	15	14	16	30	3R-	0 0 1 1 1 1 3
39	1	27	3	3	4*	4	4*	9		1
39	2	26	6	4	5	4	5	10		0 1
39	3	25	3	4	5	4*	5	10		1 13
39	4	25	4	4	6	6	6	13		3 13
39	5	24	6	5	6	5	6	12		0 1 13
39	6	24	4	5	13	12	13	26		0 3 13
39	7	15	10	7	10	9	10	20		1 3
39	8	15	3	7	9*	9	10	19		1 7
39	9	14	10	9	13	12	13	26		0 1 3
39	10	14	6	9	10	9*	11	20		0 1 7
39	11	13	12	8	11	11	12	23		1 3 13
39	12	13	3	8	13	13	14	27	3R-	1 7 13
39	13	12	12	10	15	14	15	30		0 1 3 13
39	14	12	6	10	14	13	15	28	3R-	0 1 7 13
40	1	31	4	3	5	4	5	10		0 0 0 0 0 1
40	2	30	4	3	5	4	5	10		0 0 0 0 0 1
40	3	29	4	4	5	4	5	10		0 0 0 0 0 0 1
40	4	28	4	4	8	7	8	16		0 0 0 0 0 0 0 1
40	5	27	4	4	10	9	10	20		0 0 0 0 0 1 1
40	6	25	4	5	10	9	10	20		0 0 0 0 0 0 1 1
40	7	23	4	5	10	9	10	20		0 0 0 0 0 1 1 1
40	8	22	4	6	10	9	10	20		0 0 0 0 0 0 1 1 1
40	9	21	4	6	10	9	10	20		0 0 0 0 0 0 0 1 1 1
40	10	20	4	6	10	9	10	20		0 0 0 0 0 0 0 0 1 1 1
40	11	20	4	6	9	9	9	19		1 1 1 1 1
40	12	19	4	7	10	9	10	20		0 1 1 1 1 1
40	13	18	4	7	10	9	10	20		0 0 1 1 1 1 1
40	14	17	4	8	12	11	12	24		0 0 0 1 1 1 1 1
40	15	15	4	9	11	10	12	22		0 1 1 1 1 1 1

Table 1 (continued)

n	e	k	d	Sp	R	Rp	Rs	N	Comp	Roots
40	16	13	4	9	14	13	14	28		0 0 0 1 1 1 1 1 1
40	17	12	5	9	12	11*	12	24		1 1 1 1 1 1 1
41	1	21	9	6←	6*	6*	8			0 1
41	2	20	10	7	9	8	9	18		0 1
42	1	35	4	3←	3	2*	3	6		0 0 3 7
42	2	35	3	2←	2*	2*	2*	5		3 7 7
42	3	34	4	3←	3	2*	3	6		0 0 1
42	4	34	4	3←	3	2*	3	6		0 3 7 7
42	5	34	3	2←	2*	2*	2*	5		3 3 7
42	6	33	4	3	6	5	6	12		0 0 3 7 7
42	7	33	4	3←	3	2*	3*	6		0 3 3 7
42	8	32	4	3	4	3*	4	8		0 0 1 7
42	9	32	4	3	6	5	6	12		0 0 3 3 7
42	10	32	4	3	7	6	7	14		0 0 3 7 9
42	11	32	3	3	4	3*	4	8		1 7 7
42	12	32	4	3←	3*	3*	3*	7		3 7 7 9
42	13	31	4	4	5	4	5	10		0 0 1 3
42	14	31	4	4←	4	3*	4	8		0 0 1 9
42	15	31	4	4	5	4	5	10		0 1 7 7
42	16	31	4	4	5	4	5	10		0 3 3 7 7
42	17	31	4	4	7	6	7	14		0 3 7 7 9
42	18	31	4	3	4	4	4	9		3 3 7 9
42	19	30	4	4	6	5	6	12		0 0 1 7 7
42	20	30	4	4	7	6	7	14		0 0 3 7 7 9
42	21	30	4	4	7	6	7	14		0 3 3 7 9
42	22	30	4	3	4	4	4	9		1 3 3
42	23	30	3	3	4	4	4	9		1 9 9
42	24	29	4	4	7	6	7	14		0 0 1 3 7
42	25	29	4	4	9	8	9	18		0 0 1 7 9
42	26	29	4	4	7	6	7	14		0 0 3 3 7 9
42	27	29	4	4	5	4	5	10		0 1 1
42	28	29	4	4	5	4	5	10		0 1 3 3
42	29	29	4	4	5	4	5	10		0 1 9 9
42	30	29	4	3	6	5	6	12		1 3 7 7
42	31	29	4	3	5	4	5	10		1 7 7 9
42	32	29	4	3	5	5	5	11		3 3 7 7 9
42	33	28	4	4	6	5	6	12		0 0 1 3 3
42	34	28	4	4	7	6	7	14		0 0 1 3 9
42	35	28	4	4	6	5	6	12		0 0 1 5
42	36	28	4	4	6	5	6	12		0 0 1 9 9
42	37	28	4	4	7	6	7	14		0 1 3 7 7
42	38	28	4	4	9	8	9	18		0 1 7 7 9
42	39	28	4	4	7	6	7	14		0 3 3 7 7 9
42	40	28	3	4←	4*	4*	4*	9		1 1 7
42	41	28	4	4	6	5.	6	12		1 3 3 7
42	42	28	4	4	5	4*	5	10		1 7 9 9
42	43	28	4	4	6	6	6	13		3 3 7 9 9
42	44	27	4	5	7	6	7	14		0 0 1 3 7 7
42	45	27	4	5	9	8	9	18	3S1	0 0 1 7 7 9
42	46	27	4	5	7	6	7	14		0 0 3 3 7 7 9
42	47	27	4	5←	5	4*	5	10		0 1 1 7
42	48	27	4	5	7	6	7	14		0 1 3 3 7
42	49	27	4	5	9	8	9	18		0 1 7 9 9
42	50	27	4	5	7	6	7	14		0 3 3 7 9 9
42	51	27	5	4	5	5	5	11		1 1 5
42	52	27	3	4	5	5	5	11		1 1 9
42	53	27	4	4	6	5	6	12		1 3 3 9
42	54	27	4	4	6	5	6	12		1 3 9 9
42	55	26	4	5	6	5	6	12		0 0 1 1 7
42	56	26	4	5	7	6	7	14		0 0 1 3 3 7

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
42	57	26	4	5	9	8	9	18		0 0 1 3 7 9
42	58	26	4	5	8	7	8	16		0 0 1 5 7
42	59	26	4	5	9	8	9	18		0 0 1 7 9 9
42	60	26	4	5	14	13	14	28		0 0 3 3 7 9 9
42	61	26	6	5	6	5	6	12		0 1 1 3
42	62	26	4	5	6	5	6	12		0 1 1 9
42	63	26	4	5	7	6	7	14		0 1 3 3 9
42	64	26	4	5	7	6	7	14		0 1 3 9 9
42	65	26	5	4	6	5	6	12		1 3 3 7 7
42	66	26	4	4	6	6	6	13		1 3 7 7 9
42	67	26	3	4	8	7	8	16		1 5 7 7
42	68	26	4	4	5*	5	6	11		1 7 7 9 9
42	69	25	6	5	6	5*	6	12		0 0 1 1 3
42	70	25	4	5	6	5*	6	12		0 0 1 1 9
42	71	25	4	5	7	6	7	14		0 0 1 3 3 9
42	72	25	4	5	8	7	8	16		0 0 1 3 5
42	73	25	4	5	7	6	7	14		0 0 1 3 9 9
42	74	25	4	5	7	6	8	14		0 1 1 7 7
42	75	25	6	5	7	6	7	14		0 1 3 3 7 7
42	76	25	4	5	9	8	9	18		0 1 3 7 7 9
42	77	25	4	5	9	8	9	18		0 1 5 7 7
42	78	25	4	5	9	8	9	18		0 1 7 7 9 9
42	79	25	4	5	9	8	9	18		0 3 3 7 7 9 9
42	80	25	5	5	6	5*	6	12		1 1 3 7
42	81	25	4	5	6	6	6	13		1 1 7 9
42	82	25	4	5	6	6	7	13		1 3 3 7 9
42	83	25	4	5	6	6	6	13		1 3 7 9 9
42	84	24	8	6	7	6	7	14		0 0 1 3 3 7 7
42	85	24	4	6	9	8	9	18		0 0 1 3 7 7 9
42	86	24	4	6	9	8	9	18		0 0 1 5 7 7
42	87	24	4	6	9	8	9	18		0 0 1 7 7 9 9
42	88	24	6	6	7	6	7	14		0 1 1 3 7
42	89	24	4	6	9	8	9	18		0 1 1 7 9
42	90	24	4	6	9	8	9	18		0 1 3 3 7 9
42	91	24	4	6	9	8	9	18		0 1 3 7 9 9
42	92	24	6	5	6	6	6	13		1 1 3 9
42	93	24	3	5	7	6	7	14		1 1 5
42	94	24	4	5	6	6	7	13		1 3 3 5
42	95	24	4	5	7	6	7	14		1 3 3 9 9
42	96	23	8	6	7	6	7	14		0 0 1 1 3 7
42	97	23	4	6	9	8	9	18		0 0 1 1 7 9
42	98	23	4	6	9	8	9	18		0 0 1 3 3 7 9
42	99	23	4	6	10	9	10	20		0 0 1 3 5 7
42	100	23	4	6	9	8	9	18		0 0 1 3 7 9 9
42	101	23	6	6	7	6	8	14		0 1 1 3 3
42	102	23	6	6	7	6	7	14		0 1 1 3 9
42	103	23	6	6	8	7	8	16		0 1 1 5
42	104	23	4	6	7	6	8	14		0 1 1 9 9
42	105	23	4	6	6	7	8	16		0 1 3 3 5
42	106	23	4	6	8	7	8	16		0 1 3 3 9 9
42	107	23	5	5	7	7	7	15		1 1 3 7 7
42	108	23	4	5	7	7	8	15		1 1 7 7 9
42	109	23	6	5	7	6	7	14		1 3 3 7 7 9
42	110	23	4	5	9	8	9	18		1 3 5 7 7
42	111	23	6	5	7	7	7	15		1 3 7 7 9 9
42	112	22	6	6	8	7	8	16		0 0 1 1 3 9
42	113	22	6	6	8	7	8	16		0 0 1 1 5
42	114	22	4	6	8	7	9	16		0 0 1 3 3 5
42	115	22	4	6	14	13	14	28		0 0 1 3 3 9 9
42	116	22	4	6	10	9	10	20		0 0 1 3 5 9

Table 1 (continued)

n	θ	k	d	Rp	R	Rp	Rs	N	Comp	Roots
42	117	22	6	6	8	7	8	16		0 1 1 3 7 7
42	118	22	4	6	9	8	9	18		0 1 1 7 7 9
42	119	22	6	6	9	8	9	18		0 1 3 3 7 7 9
42	120	22	4	6	10	9	10	20		0 1 3 5 7 7
42	121	22	6	6	9	8	9	18		0 1 3 7 7 9 9
42	122	22	5	6*	6*	6*	7	13		1 1 3 3 7
42	123	22	6	6	7	7	7	15		1 1 3 7 9
42	124	22	3	6	8	8	8	17		1 1 5 7
42	125	22	4	6	7	7	8	15		1 1 7 9 9
42	126	22	4	6	8	8	8	17		1 3 3 5 7
42	127	22	4	6	8	7	8	16		1 3 3 7 9 9
42	128	21	8	7	8	7	9	16		0 0 1 1 3 3 7 7
42	129	21	4	7	10	9	10	20		0 0 1 1 7 7 9
42	130	21	8	7	9	8	9	18		0 0 1 3 3 7 7 9
42	131	21	4	7	11	10	11	22		0 0 1 3 5 7 7
42	132	21	8	7	9	8	9	18		0 0 1 3 7 7 9 9
42	133	21	8	7=	7*	6*	8	14		0 1 1 3 3 7
42	134	21	6	7	9	8	9	18		0 1 1 3 7 9
42	135	21	6	7	9	8	9	18		0 1 1 5 7
42	136	21	4	7	9	8	10	18	3S2	0 1 1 7 9 9
42	137	21	4	7	10	9	10	20		0 1 3 3 5 7
42	138	21	4	7	9	8	9	18		0 1 3 3 7 9 9
42	139	21	6	6	7*	7	8	15		1 1 3 3 9
42	140	21	6	6	8	7	8	16		1 1 3 5
42	141	21	6	6	8	8	8	17		1 1 3 9 9
42	142	21	6	6	8	7	8	16		1 1 5 9
42	143	21	4	6	10	9	10	20		1 3 3 5 9
42	144	20	8	7	12	11	12	24		0 0 1 1 3 3 7
42	145	20	8	7	9	8	9	18		0 0 1 1 3 7 9
42	146	20	6	7	9	8	9	18		0 0 1 1 5 7
42	147	20	4	7	9	8	10	18		0 0 1 1 7 9 9
42	148	20	4	7	10	9	10	20		0 0 1 3 3 5 7
42	149	20	4	7	14	13	14	28		0 0 1 3 3 7 9 9
42	150	20	6	7	8	7*	9	16		0 1 1 3 3 9
42	151	20	6	7	9	8	9	18		0 1 1 3 5
42	152	20	6	7	9	8	10	18		0 1 1 3 9 9
42	153	20	6	7	9	8	9	18		0 1 1 5 9
42	154	20	4	7	11	10	11	22		0 1 3 3 5 9
42	155	20	6	6	8	8	8*	17		1 1 3 7 7 9
42	156	20	3	6	10	9	10	20		1 1 5 7 7
42	157	20	6	6	9	9	9	19		1 3 3 5 7 7
42	158	20	8	6	8	8	8*	17		1 3 3 7 7 9 9
42	159	20	4	6	10	10	10	21		1 3 5 7 7 9
42	160	19	6	7	10	9	10	20		0 0 1 1 3 3 9
42	161	19	8	7	9	8*	9	18		0 0 1 1 3 5
42	162	19	6	7	10	9	10	20		0 0 1 1 3 9 9
42	163	19	8	7	9	8*	9	18		0 0 1 1 5 9
42	164	19	4	7	11	10	11	22		0 0 1 3 3 5 9
42	165	19	8	7	13	12	13	26		0 1 1 3 3 7 7
42	166	19	6	7	9	8*	10	18		0 1 1 3 7 7 9
42	167	19	6	7	11	10	11	22		0 1 1 5 7 7
42	168	19	4	7	9	8*	10	18		0 1 1 7 7 9 9
42	169	19	6	7	10	9	10	20		0 1 3 3 5 7 7
42	170	19	8	7	9	8*	9	18		0 1 3 3 7 7 9 9
42	171	19	8	7	8*	8*	9	17		1 1 3 3 7 9
42	172	19	6	7	9	9	9	19		1 1 3 5 7
42	173	19	6	7	9	8*	9	18		1 1 3 7 9 9
42	174	19	6	7	9	9	9	19		1 1 5 7 9
42	175	19	4	7	11	10	11	22		1 3 3 5 7 9
42	176	18	8	8	11	10	11	22		0 0 1 1 3 7 7 9

Table 1 (continued)

n	ø	k	d	Sp	R	Rp	Rs	N	Comp	Roots
42	177	18	6	8	12	11	12	24		0 0 1 1 5 7 7
42	178	18	8	8	12	11	12	24		0 0 1 3 3 5 7 7
42	179	18	8	8	14	13	14	28		0 0 1 3 3 7 7 9 9
42	180	18	8	8	9	8*	10	18		0 1 1 3 3 7 9
42	181	18	6	8	11	10	11	22		0 1 1 3 5 7
42	182	18	6	8	11	10	11	22		0 1 1 3 7 9 9
42	183	18	6	8	11	10	11	22		0 1 1 5 7 9
42	184	18	7	7	8*	8*	9	17		1 1 3 3 5
42	185	18	6	7	10	10	10	21		1 1 3 5 9
42	186	18	6	7	9	9	10	19		1 1 5 9 9
42	187	18	4	7	10	10	10	21		1 3 3 5 9 9
42	188	17	8	8	12	11	12	24		0 0 1 1 3 3 7 9
42	189	17	8	8	11	10	11	22		0 0 1 1 3 5 7
42	190	17	8	8	11	10	11	22		0 0 1 1 3 7 9 9
42	191	17	8	8	11	10	11	22		0 0 1 1 5 7 9
42	192	17	10	8	10	9	10	20		0 1 1 3 3 5
42	193	17	8	8	11	10	11	22		0 1 1 3 3 9 9
42	194	17	6	8	11	10	11	22		0 1 1 3 5 9
42	195	17	6	8	11	10	11	22		0 1 1 5 5
42	196	17	6	8	11	10	11	22		0 1 1 5 9 9
42	197	17	4	8	12	11	12	24		0 1 3 3 5 9 9
42	198	17	8	8	12	11	12	24		1 1 3 3 7 7 9
42	199	17	6	8	11	10	11	22		1 1 3 5 7 7
42	200	17	8	8	10	9	10	20		1 1 3 7 7 9 9
42	201	17	6	8	11	10	11	22		1 1 5 7 7 9
42	202	17	6	8	11	11	11	23		1 3 3 5 7 7 9
42	203	16	10	9	11	10	11	22		0 0 1 1 3 3 5
42	204	16	8	9	11	10	11	22		0 0 1 1 3 5 9
42	205	16	8	9	11	10	11	22		0 0 1 1 5 9 9
42	206	16	4	9	14	13	14	28		0 0 1 3 3 5 9 9
42	207	16	8	9	13	12	13	26		0 1 1 3 3 7 7 9
42	208	16	6	9	12	11	12	24		0 1 1 3 5 7 7
42	209	16	8	9	11	10	11	22		0 1 1 3 7 7 9 9
42	210	16	6	9	13	12	13	26		0 1 1 5 7 7 9
42	211	16	9	8	10*	10	10*	21		1 1 3 3 5 7
42	212	16	8	8	11	11	11	23		1 1 3 3 7 9
42	213	16	6	8	11	11	11	23		1 1 3 5 7 9
42	214	16	3	8	10*	10	10*	21		1 1 5 5 7
42	215	16	6	8	11	10	11	22		1 1 5 7 9 9
42	216	16	4	8	13	12	13	26		1 3 3 5 7 9 9
42	217	15	8	9	14	13	14	28		0 0 1 1 3 3 7 7 9
42	218	15	8	9	12	11	12	24		0 0 1 1 3 5 7 7
42	219	15	8	9	18	17	18	36		0 0 1 1 3 7 7 9 9
42	220	15	8	9	13	12	13	26		0 0 1 1 5 7 7 9
42	221	15	10	9	11	10*	11	22		0 1 1 3 3 5 7
42	222	15	8	9	13	12	13	26		0 1 1 3 3 7 9 9
42	223	15	6	9	11	10*	11	22		0 1 1 5 5 7
42	224	15	6	9	13	12	13	26		0 1 1 5 7 9 9
42	225	15	7	8	11	10*	11	22		1 1 3 3 5 9
42	226	15	6	8	11	11	11	23		1 1 3 5 5
42	227	15	6	8	12	12	13	25	3S3	1 1 3 5 9 9
42	228	14	12	10	12	11	13	24		0 0 1 1 3 3 5 7
42	229	14	8	10	15	14	15	30		0 0 1 1 3 3 7 9 9
42	230	14	6	10	12	11	12	24		0 0 1 1 5 5 7
42	231	14	8	10	13	12	13	26		0 0 1 1 5 7 9 9
42	232	14	10	10	12	11	12	24		0 1 1 3 3 5 9
42	233	14	6	10	12	11	13	24		0 1 1 3 5 5
42	234	14	6	10	13	12	14	26		0 1 1 3 5 9 9
42	235	14	9	9	12	11	12	24		1 1 3 3 5 7 7
42	236	14	6	9	13	12	13	26		1 1 3 5 7 7 9

Table 1 (continued)

n	ø	k	d	Sp	R	Rp	Rs	N	Comp	Roots
42	237	14	8	9	12	12	12	25		1 1 5 7 7 9 9
42	238	14	8	9	13	12	13	26		1 3 3 5 7 7 9 9
43	1	29	6	4=	4*	4*	5	9		1
43	2	28	6	5	7	6	7	14		0 1
43	3	15	13	9	11*	11	12	23		1 3
44	1	31	4	4	11	10	11	22		0 0 0 1
44	2	30	4	4	11	10	11	22		0 0 0 0 1
45	1	35	4	2	3*	3	3*	7		3 5
45	2	35	4	2	4	3	4	8		5 9
45	3	34	4	4	5	4	5	10		0 3 5
45	4	34	4	4	5	4	5	10		0 5 9
45	5	33	3	3=	3*	3*	4	7	3S1	1
45	6	33	4	3	5	4	5	10		3 5 15
45	7	33	4	3	5.	4	5	10		5 9 15
45	8	32	4	4=	4*	3*	5	8		0 1
45	9	32	4	4	9	8	9	18		0 3 5 15
45	10	32	4	4	9	8	9	18		0 5 9 15
45	11	31	4	4=	4*	4*	5	9		1 15
45	12	31	4	4	5	4*	5	10		3 5 9
45	13	31	4	4	5	5	5	11		3 5 21
45	14	30	4	5	9	8	9	18	3S2	0 1 15
45	15	30	4	5	6	5	6	12		0 3 5 9
45	16	30	4	5	6	5	6	12		0 3 5 21
45	17	29	5	4	5*	5	5*	11		1 3
45	18	29	5	4	5*	5	5*	11		1 9
45	19	29	5	4	5*	5	5*	11		1 21
45	20	29	4	4	7	6	7	14		3 5 9 15
45	21	29	4	4	7	7	7	15		3 5 15 21
45	22	28	6	5	6	5*	6	12		0 1 3
45	23	28	6	5	6	5*	6	12		0 1 9
45	24	28	6	5	6	5*	6	12		0 1 21
45	25	28	4	5	9	8	9	18		0 3 5 9 15
45	26	28	4	5	9	8	9	18		0 3 5 15 21
45	27	27	6	5=	5*	5*	6	11		1 3 15
45	28	27	3	5	9	8	9	18	3S3	1 5
45	29	27	6	5	6	6	6	13		1 9 15
45	30	27	6	5=	5*	5*	6	11		1 15 21
45	31	27	4	5	9	8	9	18	3S4	3 5 9 21
45	32	26	6	6	9	8	9	18		0 1 3 15
45	33	26	4	6	10	9	10	20		0 1 5
45	34	26	6	6	9	8	9	18		0 1 9 15
45	35	26	6	6	9	8	9	18		0 1 15 21
45	36	26	4	6	10	9	10	20		0 3 5 9 21
45	37	25	5	5	6*	6*	7	13		1 3 9
45	38	25	5	5	6*	6*	7	13		1 3 21
45	39	25	4	5	10	9	10	20		1 5 15
45	40	25	5	5	6*	6*	7	13		1 9 21
45	41	25	4	5	10	10	10	21		3 5 9 15 21
45	42	24	6	6	7	6*	8	14		0 1 3 9
45	43	24	6	6	7	6*	8	14		0 1 3 21
45	44	24	4	6	12	11	12	24	3S5	0 1 5 15
45	45	24	6	6	7	6*	8	14		0 1 9 21
45	46	24	4	6	15	14	15	30	3S6	0 3 5 9 15 21
45	47	23	7	6	9	8	9	18		1 3 5
45	48	23	6	6	8	8	9	17		1 3 9 15
45	49	23	6	6	8	8	9	17		1 3 15 21
45	50	23	6	6	9	8	9	18		1 5 9
45	51	23	7	6	9	8	9	18		1 5 21
45	52	23	6	6	8	8	9	17		1 9 15 21
45	53	22	8	7	10	9	10	20		0 1 3 5

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
45	54	22	6	7	10	9	10	20		0 1 3 9 15
45	55	22	6	7	10	9	10	20		0 1 3 15 21
45	56	22	6	7	10	9	10	20		0 1 5 9
45	57	22	8	7	10	9	10	20		0 1 5 21
45	58	22	6	7	10	9	10	20		0 1 9 15 21
45	59	21	8	7	10	9	10	20		1 3 5 15
45	60	21	5	7	9	9	10	19	3S7	1 3 9 21
45	61	21	8	7	10	9	10	20		1 5 9 15
45	62	21	8	7	10	9	10	20		1 5 15 21
45	63	21	3	7	9	9	10	19	3S8	1 7
45	64	20	8	8	12	11	12	24		0 1 3 5 15
45	65	20	6	8	10	9	11	20		0 1 3 9 21
45	66	20	8	8	12	11	12	24		0 1 5 9 15
45	67	20	8	8	12	11	12	24		0 1 5 15 21
45	68	20	6	8	10	9	11	20		0 1 7
45	69	19	7	8	11	10	11	22		1 3 5 9
45	70	19	7	8	10	10	10	21		1 3 5 21
45	71	19	6	8	10	10	11	21		1 3 9 15 21
45	72	19	7	8	11	10	11	22		1 5 9 21
45	73	19	6	8	10	10	11	21		1 7 15
45	74	18	8	9	12	11	12	24		0 1 3 5 9
45	75	18	8	9	11	10	11	22		0 1 3 5 21
45	76	18	6	9	15	14	15	30	3S9	0 1 3 9 15 21
45	77	18	8	9	12	11	12	24		0 1 5 9 21
45	78	18	6	9	12	11	13	24	3S10	0 1 7 15
45	79	17	8	8	12	11	13	17		1 3 5 9 15
45	80	17	8	8	12	11	12	24		1 3 5 15 21
45	81	17	5	8	11	11	11	23		3 7
45	82	17	8	8	12	11	13	24		1 5 9 15 21
45	83	17	5	8	12	11	12	24		1 7 9
46	1	33	4	4	7	6	7	14		0 1
46	2	23	8	7=	7*	6*	10			0 1 1
47	1	24	11	6	7*	7	10			1
47	2	23	12	7	11	10	11	22		0 1
48	1	37	4	3	8	7	8	16		0 0 0 0 0 0 0 0 0 1
48	2	36	4	4	8	7	8	16		0 0 0 0 0 0 0 0 0 1
48	3	35	4	4	8	7	8	16		0 0 0 0 0 0 0 0 0 0 1
48	4	35	4	4	8	7	8	16		0 0 0 0 0 0 0 0 0 1 1
48	5	34	4	4	8	7	8	16		0 0 0 0 0 0 0 0 0 0 0 1
48	6	33	4	4	8	7	8	16		0 0 0 0 0 0 0 0 0 0 0 0 1
48	7	33	4	4	8	7	8	16		0 0 0 0 0 0 0 0 0 0 1 1
48	8	33	4	4	8	7	8	16		0 0 0 0 0 0 0 0 1 1 1
48	9	32	4	5	8	7	8	16		0 0 0 0 0 0 0 0 0 0 0 0 1
48	10	32	4	5	8	7	8	16		0 0 0 0 0 0 0 0 0 1 1 1
48	11	31	4	5	8	7	8	16		0 0 0 0 0 0 0 0 0 0 0 0 0 1
48	12	31	4	5	8	7	8	16		0 0 0 0 0 0 0 0 0 0 0 1 1
48	13	31	4	5	8	7	8	16		0 0 0 0 0 0 0 0 0 0 1 1 1
48	14	31	4	5	12	11	12	24		0 0 0 0 0 0 0 0 1 1 1 1
48	15	30	4	5	16	15	16	32		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
48	16	30	4	5	8	7	8	16		0 0 0 0 0 0 0 0 0 0 0 1 1 1
48	17	30	3	5	9	8	9	18		1 1 1 1 1 1 1 1
48	18	29	4	6	10	9	10	20		0 0 0 0 0 0 0 0 0 0 0 0 1 1
48	19	29	4	6	8	7	8	16		0 0 0 0 0 0 0 0 0 0 1 1 1
48	20	29	4	6	12	11	12	24		0 0 0 0 0 0 0 0 1 1 1 1
48	21	29	4	6	12	11	12	24		0 0 0 0 0 0 0 0 1 1 1 1
48	22	29	4	6	10	9	10	20		0 1 1 1 1 1 1 1 1 1
48	23	28	4	6	10	9	10	20		0 0 0 0 0 0 0 0 0 0 0 1 1 1
48	24	28	4	6	12	11	12	24		0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	25	28	4	6	10	9	10	20		0 0 1 1 1 1 1 1 1 1 1 1
48	26	27	4	6	10	9	10	20		0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
48	27	27	4	6	12	11	12	24		0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
48	28	27	4	6	12	11	12	24		0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	29	27	4	6	12	11	12	24		0 0 0 0 0 0 0 1 1 1 1 1 1
48	30	27	4	6	10	9	10	20		0 0 0 1 1 1 1 1 1 1 1 1
48	31	27	4	6	11	10	11	22		0 1 1 1 1 1 1 1 1 1
48	32	26	4	7	16	15	16	32		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
48	33	26	4	7	12	11	12	24		0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	34	26	4	7	12	11	12	24		0 0 0 1 1 1 1 1 1 1 1 1
48	35	26	3	6	10	9	10	20		1 1 1 1 1 1 1 1 1 1
48	36	25	4	7	12	11	12	24		0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
48	37	25	4	7	12	11	12	24		0 0 0 0 0 0 0 0 0 1 1 1 1
48	38	25	4	7	12	11	12	24		0 0 0 0 0 0 0 0 1 1 1 1 1
48	39	25	4	7	12	11	12	24		0 0 0 0 0 0 0 1 1 1 1 1 1
48	40	25	4	7	12	11	12	24		0 0 0 0 1 1 1 1 1 1 1 1 1
48	41	25	4	7	12	11	12	24		0 0 1 1 1 1 1 1 1 1 1 1
48	42	25	4	7	11	10	11	22		0 1 1 1 1 1 1 1 1 1 1
48	43	24	4	7	12	11	12	24		0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	44	24	4	7	12	11	12	24		0 0 0 0 0 0 0 0 1 1 1 1 1
48	45	24	4	7	12	11	12	24		0 0 0 0 0 0 1 1 1 1 1 1 1
48	46	24	4	7	12	11	12	24		0 0 1 1 1 1 1 1 1 1 1 1
48	47	23	4	8	12	11	12	24		0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	48	23	4	8	12	11	13	24		0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	49	23	4	8	12	11	12	24		0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
48	50	23	4	8	12	11	12	24		0 0 0 0 0 1 1 1 1 1 1 1 1
48	51	23	4	8	12	11	12	24		0 0 0 0 0 1 1 1 1 1 1 1 1
48	52	23	4	8	12	11	12	24		0 0 0 1 1 1 1 1 1 1 1 1
48	53	23	4	8	13	12	13	26		0 1 1 1 1 1 1 1 1 1 1 1
48	54	22	4	8	16	15	16	32		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	55	22	4	8	14	13	14	28		0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	56	22	4	8	12	11	12	24		0 0 0 1 1 1 1 1 1 1 1 1
48	57	22	3	7	12	11	12	24		1 1 1 1 1 1 1 1 1 1 1 1
48	58	21	4	8	14	13	14	28		0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
48	59	21	4	8	14	13	14	28		0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
48	60	21	4	8	14	13	14	28		0 0 0 0 0 0 1 1 1 1 1 1 1
48	61	21	4	8	12	11	12	24		0 0 0 0 0 1 1 1 1 1 1 1 1
48	62	21	4	8	14	13	14	28		0 0 0 1 1 1 1 1 1 1 1 1
48	63	21	6	8	13	12	13	26		0 1 1 1 1 1 1 1 1 1 1 1
48	64	20	4	9	14	13	14	28		0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
48	65	20	4	9	14	13	14	28		0 0 0 0 0 0 0 1 1 1 1 1 1 1
48	66	20	6	9	14	13	14	28		0 0 1 1 1 1 1 1 1 1 1 1
49	1	28	3	5	7	7	8	15	7S1	1
49	2	27	4	7	8	7	9	16		0 1
49	3	25	4	7	8	8	9	17		1 7
49	4	25	4	7	8	8	9	17		1 21
49	5	24	4	8	10	9	11	20		0 1 7
49	6	24	4	8	10	9	11	20		0 1 21
49	7	22	4	8	10	10	11	21		1 7 21
49	8	21	4	9	21	20	21	42	7S2	0 1 7 21
50	1	28	4	6	11	10	11	22		0 0 1
50	2	22	4	8	14	14	14	29		1 5 5
51	1	43	3	2-	2*	2*	2*	5		1
51	2	42	4	3-	3	3*	4	6		0 1
51	3	41	3	2	4	3	4	8		1 17
51	4	41	4	2	3*	3	3*	7		3 17
51	5	40	4	3	5	4	5	10		0 1 17
51	6	40	4	3	5	4	5	10		0 3 17
51	7	35	5	4	5	4*	5	10		1 3
51	8	35	3	4-	4*	4*	4*	9		1 5
51	9	35	5	4	5	4*	5	10		1 9
51	10	35	3	4	5	5	5	11		1 19

Table 1 (continued)

n	θ	k	d	Bp	B	Sp	Se	W	Comp	Roots
S1	11	34	6	5	6.	5	6	12		0 1 3
S1	12	34	6	5-	5*	4*	5*	10		0 1 5
S1	13	34	6	5	6	5	6	12		0 1 9
S1	14	34	6	5	6	5	6	12		0 1 19
S1	15	33	6	4	6	6	6	13		1 3 17
S1	16	33	3	4	7	6	7	14		1 5 17
S1	17	33	6	4	6	6	6	13		1 9 17
S1	18	33	3	4	6	6	6	13		1 17 19
S1	19	33	4	4	8	8	8	17		3 9 17
S1	20	32	6	6	9	8	9	18		0 1 3 17
S1	21	32	6	6	8	7	8	16		0 1 5 17
S1	22	32	6	6	8	7	8	16		0 1 9 17
S1	23	32	6	6	7	6	7	14		0 1 17 19
S1	24	32	6	6	17	16.	17	34		0 3 9 17
S1	25	27	9	6	8	7*	8	16		1 3 5
S1	26	27	9	6	8	8	9	17		1 3 9
S1	27	27	9	6	8	8	8	17		1 3 11
S1	28	27	9	6	8	8	8	17		1 3 19
S1	29	27	3	6	8	8	8	17		1 5 11
S1	30	27	3	6	9	9	10	19	3S1	1 9 19
S1	31	26	10	7	9	8	9	18		0 1 3 5
S1	32	26	8	7	17	16	17	34		0 1 3 9
S1	33	26	10	7	9	8	9	18		0 1 3 11
S1	34	26	10	7	9	8	9	18		0 1 3 19
S1	35	26	6	7	9	8	9	18		0 1 5 11
S1	36	26	6	7	10	9.	11	20		0 1 9 19
S1	37	25	10	7	9	8*	9	18		1 3 5 17
S1	38	25	8	7	9	9.	10	19		1 3 9 17
S1	39	25	10	7	9	8*	9	18		1 3 11 17
S1	40	25	10	7	9	8*	9	18		1 3 17 19
S1	41	25	3	7	9	9	10	19		1 5 11 17
S1	42	25	6	7	10	10	11	21		1 9 17 19
S1	43	24	10	8	11	10	11	22		0 1 3 5 17
S1	44	24	8	8	17	16	17	34		0 1 3 9 17
S1	45	24	10	8	11	10	11	22		0 1 3 11 17
S1	46	24	10	8	11	10	11	22		0 1 3 17 19
S1	47	24	6	8	10	9	11	20		0 1 5 11 17
S1	48	24	6	8	15	14	15	30	3S2	0 1 9 17 19
S2	1	37	4	4	13	12	13	26		0 0 0 1
S2	2	36	4	5	13	12	13	26		0 0 0 0 1
S4	1	34	4	6	10	9	10	20		0 0 1
S4	2	32	4	6	12	11	12	24		0 0 1 9
S4	3	32	4	6	10	10	10	21		1 9 9
S4	4	31	4	7	12	11	12	24		0 1 9 9
S4	5	30	4	7	12	11	12	24	3S1	0 0 1 9 9
S4	6	28	4	8	13	12	13	26		0 0 1 3
S4	7	26	4	8	13	13	13	27		1 3 9 9
S5	1	41	4	3	5	5	5	11		5 11
S5	2	40	4	4	11	10	11	22		0 5 11
S5	3	35	5	5	6*	6	6*	13		1
S5	4	34	8	6	7	6*	7	14		0 1
S5	5	31	5	6	8	8	8	17		1 11
S5	6	30	10	7	9	8	9	18		0 1 11
S6	1	48	4	3	4	3	4	8		0 0 0 0 0 1
S6	2	47	4	3	4	3	4	8		0 0 0 0 0 1
S6	3	46	4	3	4	3	4	8		0 0 0 0 0 0 1
S6	4	45	4	3	8	7	8	16		0 0 0 0 0 0 0 1
S6	5	45	4	3	6	5	6	12		0 0 0 0 1 1
S6	6	45	4	3	7	6	7	14		0 0 0 0 1 3
S6	7	44	4	4	7	6	7	14		0 0 0 0 0 1 3

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
56	8	43	4	4	6	5	6	12		0 0 0 0 0 0 0 1 1
56	9	43	4	4	7	6	7	14		0 0 0 0 0 0 0 1 3
56	10	42	4	4	8	7	8	16		0 0 0 0 0 0 0 1 3
56	11	42	4	4	6	5	6	12		0 0 0 0 0 1 1 1
56	12	42	4	4	7	6	7	14		0 0 0 0 0 1 1 3
56	13	41	4	4	6	5	7	12		0 0 0 0 0 1 1 1
56	14	41	4	4	7	6	7	14		0 0 0 0 0 1 1 3
56	15	41	3	4	5	5	5	11		1 1 1 1 1
56	16	40	4	5	6	5	7	12		0 0 0 0 0 0 1 1 1
56	17	40	4	5	7	6	7	14		0 0 0 0 0 0 1 1 3
56	18	40	4	5	6	5	6	12		0 1 1 1 1 1
56	19	39	4	5	8	7	8	16		0 0 0 0 0 0 0 1 1 1
56	20	39	4	5	8	7	8	16		0 0 0 0 0 0 0 1 1 3
56	21	39	4	5	12	11	12	24		0 0 0 0 1 1 1 1
56	22	39	4	5	9	8	9	18		0 0 0 0 1 1 1 3
56	23	39	4	5	14	13	14	28		0 0 0 0 1 1 3 3
56	24	39	4	5	6	5	6	12		0 0 1 1 1 1 1
56	25	38	4	5	9	8	9	18		0 0 0 0 0 1 1 1 3
56	26	38	4	5	6	5•	6	12		0 0 0 1 1 1 1 1
56	27	38	4	4	6	6	6	13		1 1 1 1 1 3
56	28	37	4	5	12	11	12	24		0 0 0 0 0 0 1 1 1 1
56	29	37	4	5	9	8	9	18		0 0 0 0 0 0 1 1 1 3
56	30	37	4	5	14	13	14	28		0 0 0 0 0 0 1 1 3 3
56	31	37	4	5	12	11	12	24		0 0 0 0 1 1 1 1 1
56	32	37	4	5	7	6	7	14		0 1 1 1 1 1 1
56	33	37	4	5	7	6	7	14		0 1 1 1 1 1 3
56	34	36	4	6	9	8	9	18		0 0 0 0 0 0 0 1 1 3
56	35	36	4	6	12	11	12	24		0 0 0 0 1 1 1 1 1
56	36	36	4	6	12	11	12	24		0 0 0 0 1 1 1 1 3
56	37	36	4	6	14	13	14	28		0 0 0 0 1 1 1 3 3
56	38	36	4	6	8	7	8	16		0 0 1 1 1 1 1 3
56	39	35	4	6	12	11	12	24		0 0 0 0 0 1 1 1 1 1
56	40	35	4	6	12	11	12	24		0 0 0 0 0 1 1 1 1 3
56	41	35	4	6	14	13	14	28		0 0 0 0 0 1 1 1 3 3
56	42	35	4	6	8	7	8	16		0 0 0 1 1 1 1 1 1
56	43	35	4	6	8	7	8	16		0 0 0 1 1 1 1 1 3
56	44	35	3	5	7	6•	7	14		1 1 1 1 1 1 1
56	45	35	4	5	7	7	7	15		1 1 1 1 1 1 3
56	46	35	4	5	8	8	8	17		1 1 1 1 1 3 3
56	47	34	4	6	12	11	12	24		0 0 0 0 0 0 1 1 1 1
56	48	34	3	6	12	11	12	24		0 0 0 0 0 0 1 1 1 3
56	49	34	4	6	14	13	14	28		0 0 0 0 0 0 1 1 3 3
56	50	34	4	6	12	11	12	24		0 0 0 0 1 1 1 1 3
56	51	34	4	6	8	7	8	16		0 1 1 1 1 1 1
56	52	34	4	6	9	7	8	16		0 1 1 1 1 1 3
56	53	34	?	6		8	9	18		0 1 1 1 1 1 3 3
56	54	33	4	7	12	11	12	24		0 0 0 0 0 0 0 1 1 1 1 1
56	55	33	3	7	12	11	12	24		0 0 0 0 0 0 0 1 1 1 1 3
56	56	33	4	7	14	13	14	28		0 0 0 0 0 0 0 1 1 1 3 3
56	57	33	4	7	12	11	12	24		0 0 0 0 0 1 1 1 1 1 1
56	58	33	4	7	12	11	12	24		0 0 0 0 0 1 1 1 1 1 3
56	59	33	4	7	14	13	14	28		0 0 0 0 0 1 1 1 1 3 3
56	60	33	3	7	14	13	14	28		0 0 0 0 0 0 1 1 1 3 3 3
56	61	33	4	7	8	7	9	16		0 0 1 1 1 1 1 1
56	62	33	4	7	10	9	10	20		0 0 1 1 1 1 1 3
56	63	33	4	7	14	13	14	28		0 0 1 1 1 1 1 3 3
56	64	32	4	7	12	11	12	24		0 0 0 0 0 0 1 1 1 1 1 3
56	65	32	4	7	14	13	14	28		0 0 0 0 0 0 1 1 1 1 3 3 3
56	66	32	4	7	9	8	9	18		0 0 0 1 1 1 1 1 1 1
56	67	32	4	7	10	9	10	20		0 0 0 1 1 1 1 1 1 3

Table 1 (continued)

n	θ	h	d	Bp	R	Dp	Bo	U	Comp	Roots
56	68	32	4	7	14	13	14	28		0 0 0 1 1 1 1 1 3 3
56	69	32	4	6	8	7*	8	16		1 1 1 1 1 1 1 3
56	70	32	4	6	9	9	9	19		1 1 1 1 1 3 3 3
56	71	31	4	7	12	11	12	24		0 0 0 0 0 0 1 1 1 1 1
56	72	31	8	7	12	11	12	24		0 0 0 0 0 0 0 1 1 1 1 3
56	73	31	4	7	14	13	14	28		0 0 0 0 0 0 0 1 1 1 3 3
56	74	31	4	7	14	13	14	28		0 0 0 0 0 0 0 1 1 1 3 3 3
56	75	31	4	7	12	11	12	24		0 0 0 1 1 1 1 1 1 1
56	76	31	4	7	12	11	12	24		0 0 0 1 1 1 1 1 1 3
56	77	31	4	7	14	13	14	28		0 0 0 1 1 1 1 1 3 3
56	78	31	4	7	9	8	10	18		0 1 1 1 1 1 1 1 1
56	79	31	6	7	10	9	10	20		0 1 1 1 1 1 1 1 3
56	80	31	4	7	11	10	11	22		0 1 1 1 1 1 1 3 3
56	81	31	4	7	10	9	10	20		0 1 1 1 1 1 3 3 3
56	82	30	4	8	12	11	12	24		0 0 0 0 0 0 0 1 1 1 1 3
56	83	30	4	8	14	13	14	28		0 0 0 0 0 0 0 1 1 1 3 3
56	84	30	4	8	12	11	12	24		0 0 0 0 1 1 1 1 1 1 1
56	85	30	4	8	12	11	12	24		0 0 0 0 1 1 1 1 1 1 3
56	86	30	4	8	14	13	14	28		0 0 0 0 1 1 1 1 1 3 3
56	87	30	4	8	14	13	14	28		0 0 0 0 1 1 1 1 1 3 3 3
56	88	30	6	8	10	9	10	20		0 0 1 1 1 1 1 1 3
56	89	30	4	8	14	13	14	28		0 0 1 1 1 1 1 1 3 3
56	90	29	4	8	12	11	12	24		0 0 0 0 0 1 1 1 1 1 1
56	91	29	4	8	12	11	12	24		0 0 0 0 0 1 1 1 1 1 3
56	92	29	4	8	14	13	14	28		0 0 0 0 0 1 1 1 1 3 3
56	93	29	4	8	14	13	14	28		0 0 0 0 0 1 1 1 1 3 3 3
56	94	29	4	8	10	9	11	20		0 0 0 1 1 1 1 1 1 1
56	95	29	6	8	10	9	10	20		0 0 0 1 1 1 1 1 1 3
56	96	29	4	8	14	13	14	28		0 0 0 1 1 1 1 1 3 3
56	97	29	4	8	14	13	14	28		0 0 0 1 1 1 1 1 3 3 3
56	98	29	6	7	10	10	10	21		1 1 1 1 1 1 1 1 3
56	99	29	6	7	10	9	10	20		1 1 1 1 1 1 1 3 3
56	100	29	4	7	10	10	10	21		1 1 1 1 1 3 3 3
56	101	29	4	7	13	12	13	26		1 1 1 1 1 1 3 3
56	102	28	4	8	12	11	12	24		0 0 0 0 0 0 1 1 1 1 1 1
56	103	28	8	8	12	11	12	24		0 0 0 0 0 0 1 1 1 1 1 3
56	104	28	8	8	14	13	14	28		0 0 0 0 0 0 1 1 1 1 3 3
56	105	28	4	8	14	13	14	28		0 0 0 0 0 0 1 1 1 1 3 3 3
56	106	28	6	8	12	11	12	24		0 0 0 1 1 1 1 1 1 1 3
56	107	28	4	8	14	13	14	28		0 0 0 1 1 1 1 1 3 3 3
56	108	28	6	8	11	10	12	22		0 1 1 1 1 1 1 1 1 3
56	109	28	6	8	11	10	11	22		0 1 1 1 1 1 1 1 3 3
56	110	28	4	8	11	10	11	22		0 1 1 1 1 1 1 3 3 3
56	111	28	4	8	14	13	14	28		0 1 1 1 1 1 3 3 3 3
57	1	39	3	4	5*	5*	5*	11		1
57	2	38	6	5	6	5*	6	12		0 1
57	3	37	3	5	7	6	7	14		1 19
57	4	37	4	5	9	9	9	19		3 19
57	5	36	6	6	8	7	8	16		0 1 19
57	6	36	4	6	19	18	19	38		0 3 19
60	1	53	4	3-	3	2*	3	6		0 0 0 1
60	2	52	4	3	4	3	4	8		0 0 0 0 1
60	3	51	4	3	4	3	4	8		0 0 0 1 5
60	4	51	4	3	5	4	5	10		0 0 0 3 5
60	5	50	4	3	4	3	4	9		0 0 0 0 1 5
60	6	50	4	3	5	4	5	10		0 0 0 0 3 5
60	7	50	3	2	3	3	3	7		1 5 5 5
60	8	50	4	2	4	3	4	8		3 5 5 5
60	9	49	4	3	6	5	6	12		0 0 0 1 1
60	10	49	4	3	5	4	5	10		0 0 0 1 3

Table 1 (continued)

n	θ	k	d	Bp	R	Bp	Rs	N	Comp	Roots
60	11	49	4	3	6	5	6	12		0 0 0 1 5 5
60	12	49	4	3	4	3	4	8		0 0 0 1 7
60	13	49	4	3	6	5	6	12		0 0 0 3 5 5
60	14	49	4	3	4	3	4	8		0 1 5 5 5
60	15	49	4	3	5	4	5	10		0 3 5 5 5
60	16	48	4	4	5	4	5	10		0 0 0 0 1 3
60	17	48	4	4	6	5	6	12		0 0 0 0 1 5 5
60	18	48	4	4-	4	3*	4	8		0 0 0 0 1 7
60	19	48	4	4	6	5	6	12		0 0 0 0 3 5 5
60	20	48	4	4	6	5	6	12		0 0 1 5 5 5
60	21	48	4	4	6	5	6	12		0 0 3 5 5 5
60	22	48	3	3=	3*	3*	3*	7		1 1 1
60	23	48	3	3	4	4	4	9		1 5 5 5 5
60	24	48	4	3	4	4	4	9		3 5 5 5 5
60	25	47	4	4	6	5	6	12		0 0 0 1 1 5
60	26	47	4	4	6	5	6	12		0 0 0 1 3 5
60	27	47	4	4	6	5	6	12		0 0 0 1 5 5 5
60	28	47	4	4	6	5	6	12		0 0 0 1 5 7
60	29	47	4	4	10	9	10	20		0 0 0 3 3 5
60	30	47	4	4	6	5	6	12		0 0 0 3 5 5 5
60	31	47	4	4-	4	3*	4	8		0 1 1 1
60	32	47	4	4	5	4	5	10		0 1 5 5 5 5
60	33	47	4	4	5	4	5	10		0 3 5 5 5 5
60	34	46	4	4	6	5	6	12		0 0 0 1 1 5
60	35	46	4	4	7	6	7	14		0 0 0 1 3 5
60	36	46	4	4	6	5	6	12		0 0 0 1 5 5 5
60	37	46	4	4	6	5	6	12		0 0 0 1 5 7
60	38	46	4	4	10	9	10	20		0 0 0 3 3 5
60	39	46	4	4	6	5	6	12		0 0 0 3 5 5 5
60	40	46	4	4	6	5	6	12		0 0 1 1 1
60	41	46	4	4	6	5	6	12		0 0 1 5 5 5 5
60	42	46	4	4	6	5	6	12		0 0 3 5 5 5 5
60	43	46	3	3	4*	4	4*	9		1 1 1 5
60	44	46	3	3	6	5	6	12		1 1 5 5 5
60	45	46	4	3	5	4	5	10		1 3 5 5 5
60	46	46	3	3	6	5	6	12		1 5 5 5 7
60	47	46	4	3	5	5	5	11		3 3 3 5
60	48	46	4	3	6	5	6	12		3 3 5 5 5
60	49	45	4	4	6	5	6	12		0 0 0 1 1 1
60	50	45	4	4	6	5	6	12		0 0 0 1 1 3
60	51	45	4	4	8	7	8	16		0 0 0 1 1 5 5
60	52	45	4	4	6	5	6	12		0 0 0 1 1 7
60	53	45	4	4	10	9	10	20		0 0 0 1 3 3
60	54	45	4	4	7	6	7	14		0 0 0 1 3 5 5
60	55	45	4	4	7	6	7	14		0 0 0 1 3 7
60	56	45	4	4	6	5	6	12		0 0 0 1 5 5 5 5
60	57	45	4	4	7	6	7	14		0 0 0 1 5 5 7
60	58	45	4	4	10	9	10	20		0 0 0 3 3 5
60	59	45	4	4	6	5	6	12		0 0 0 3 5 5 5 5
60	60	45	4	4	5	4*	5	10		0 1 1 1 5
60	61	45	4	4	7	6	7	14		0 1 1 5 5 5
60	62	45	4	4	7	6	7	14		0 1 3 5 5 5
60	63	45	4	4	7	6	7	14		0 1 5 5 5 7
60	64	45	4	4	7	6	7	14		0 3 3 3 5
60	65	45	4	4	7	6	7	14		0 3 3 5 5 5
60	66	44	4	4	6	5	6	12		0 0 0 0 1 1 1
60	67	44	4	4	7	6	7	14		0 0 0 0 1 1 3
60	68	44	4	4	6	5	6	12		0 0 0 0 1 1 7
60	69	44	4	4	10	9	10	20		0 0 0 0 1 3 3
60	70	44	4	4	7	6	7	14		0 0 0 0 1 3 5 5

Table 1 (continued)

n	#	k	d	Rp	R	Rp	Rs	N	Comp	Roots
60	71	44	4	4	7	6	7	14		0 0 0 0 1 3 7
60	72	44	4	4	12	11	12	24		0 0 0 0 1 5 5 5 5
60	73	44	4	4	7	6	7	14		0 0 0 0 1 5 5 7
60	74	44	4	4	12	11	12	24		0 0 0 0 3 5 5 5 5
60	75	44	4	4	6	5	6	12		0 0 1 1 1 5
60	76	44	4	4	8	7	8	16		0 0 1 1 5 5 5
60	77	44	4	4	7	6	7	14		0 0 1 3 5 5 5
60	78	44	4	4	7	6	7	14		0 0 1 5 5 5 7
60	79	44	4	4	10	9	10	20		0 0 3 3 3 5
60	80	44	4	4	10	9	10	20		0 0 3 3 5 5 5
60	81	44	4	4	5	4*	5	10		1 1 1 3
60	82	44	3	4	6	5	6	12		1 1 1 5 5
60	83	44	3	4	5	4*	5	10		1 1 1 7
60	84	44	4	4	5	5	5	11		1 3 3 3
60	85	44	4	4	6	5	6	12		1 3 5 5 5 5
60	86	44	3	4	7	6	7	14		1 5 5 5 5 7
60	87	44	4	4	6	5	6	12		3 3 3 5 5
60	88	43	4	5	6	5	6	12		0 0 0 1 1 1 5
60	89	43	4	5	7	6	7	14		0 0 0 1 1 3 5
60	90	43	4	5	8	7	8	16		0 0 0 1 1 5 5 5
60	91	43	4	5	7	6	7	14		0 0 0 1 1 5 7
60	92	43	4	5	10	9	10	20		0 0 0 1 3 3 5
60	93	43	4	5	7	6	7	14		0 0 0 1 3 5 5 5
60	94	43	4	5	15	14	15	30		0 0 0 1 3 5 7
60	95	43	4	5	7	6	7	14		0 0 0 1 5 5 5 7
60	96	43	4	5	10	9	10	20		0 0 0 3 3 3 5
60	97	43	4	5	10	9	10	20		0 0 0 3 3 5 5 5
60	98	43	4	5—	5*	4*	6	10		0 1 1 1 1
60	99	43	4	5	6	5	6	12		0 1 1 1 3
60	100	43	4	5	7	6	7	14		0 1 1 1 5 5
60	101	43	4	5	6	5	6	12		0 1 1 1 7
60	102	43	4	5	7	6	7	14		0 1 1 5 5 5 5
60	103	43	4	5	7	6	7	14		0 1 3 3 3
60	104	43	4	5	7	6	7	14		0 1 3 5 5 5 5
60	105	43	4	5	8	7	8	16		0 1 5 5 5 5 7
60	106	43	4	5	7	6	7	14		0 3 3 3 5 5
60	107	43	4	5	7	6	7	14		0 3 3 5 5 5 5
60	108	42	4	5	6	5*	6	12		0 0 0 0 1 1 1 5
60	109	42	4	5	8	7	8	16		0 0 0 0 1 1 3 5
60	110	42	4	5	8	7	8	16		0 0 0 0 1 1 5 5 5
60	111	42	4	5	8	7	8	16		0 0 0 0 1 1 5 7
60	112	42	4	5	10	9	10	20		0 0 0 0 1 3 3 5
60	113	42	4	5	7	6	7	14		0 0 0 0 1 3 5 5 5
60	114	42	4	5	15	14	15	30		0 0 0 0 1 3 5 7
60	115	42	4	5	7	6	7	14		0 0 0 0 1 5 5 5 7
60	116	42	4	5	10	9	10	20		0 0 0 0 3 3 3 5
60	117	42	4	5	10	9	10	20		0 0 0 0 3 3 5 5 5
60	118	42	4	5	6	5*	6	12		0 0 1 1 1 3
60	119	42	4	5	8	7	8	16		0 0 1 1 1 5 5
60	120	42	4	5	6	5*	6	12		0 0 1 1 1 7
60	121	42	4	5	10	9	10	20		0 0 1 3 3 3
60	122	42	4	5	7	6	7	14		0 0 1 3 5 5 5 5
60	123	42	1	5	8	7	8	16		0 0 1 5 5 5 5 7
60	124	42	4	5	10	9	10	20		0 0 3 3 3 5 5
60	125	42	3	4	5*	5*	5*	11		1 1 1 1 5
60	126	42	4	4	6	6	6	12		1 1 1 3 5
60	127	42	3	4	7	6	7	14		1 1 1 5 5 5
60	128	42	3	4	6	6	6	13		1 1 1 5 7
60	129	42	4	4	6	6	6	13		1 1 3 5 5 5
60	130	42	3	4	6	6	6	13		1 1 1 5 5 7

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
60	131	42	4	4	6	6	6	13		1 3 3 3 5
60	132	42	4	4	6	6	6	13		1 3 3 5 5
60	133	42	4	4	7	7	8	15		1 3 5 5 5 7
60	134	42	4	4	8	8	8	17		3 3 3 3 5
60	135	42	4	4	6	5*	6	12		3 3 3 5 5
60	136	41	4	5	6	5*	7	12		0 0 0 1 1 1 1
60	137	41	4	5	6	5*	6	12		0 0 0 1 1 1 3
60	138	41	4	5	8	7	8	16		0 0 0 1 1 1 5 5
60	139	41	4	5	6	5*	6	12		0 0 0 1 1 1 7
60	140	41	4	5	10	9	10	20		0 0 0 1 1 3 3
60	141	41	4	5	9	8	9	18		0 0 0 1 1 3 5 5
60	142	41	4	5	8	7	8	16		0 0 0 1 1 3 7
60	143	41	4	5	8	7	8	16		0 0 0 1 1 5 5 5 5 5
60	144	41	4	5	9	8	9	18		0 0 0 1 1 5 5 5 7
60	145	41	4	5	8	7	8	16		0 0 0 1 1 7 7
60	146	41	4	5	10	9	10	20		0 0 0 1 3 3 3
60	147	41	4	5	10	9	10	20		0 0 0 1 3 3 5 5
60	148	41	4	5	10	9	10	20		0 0 0 1 3 3 7
60	149	41	4	5	8	7	8	16		0 0 0 1 3 5 5 5 5 5
60	150	41	4	5	15	14	15	30		0 0 0 1 3 5 5 7
60	151	41	4	5	9	8	9	18		0 0 0 1 5 5 5 5 5 7
60	152	41	4	5	10	9	10	20		0 0 0 3 3 3 5 5
60	153	41	4	5	10	9	10	20		0 0 0 3 3 5 5 5 5 5
60	154	41	4	5	6	5*	6	12		0 1 1 1 1 5
60	155	41	4	5	7	6	7	14		0 1 1 1 3 5
60	156	41	4	5	8	7	8	16		0 1 1 1 5 5 5
60	157	41	4	5	7	6	7	14		0 1 1 1 5 7
60	158	41	4	5	7	6	7	14		0 1 1 3 5 5 5
60	159	41	4	5	7	6	7	14		0 1 1 5 5 5 5 7
60	160	41	4	5	7	6	7	14		0 1 3 3 3 5
60	161	41	4	5	7	6	7	14		0 1 3 3 5 5 5
60	162	41	4	5	15	14	15	30		0 1 3 5 5 5 7
60	163	41	4	5	9	8	9	18		0 3 3 3 3 5
60	164	41	4	5	7	6	7	14		0 3 3 3 5 5 5
60	165	40	6	6	8	7	8	16		0 0 0 0 1 1 1 3
60	166	40	4	6	8	7	8	16		0 0 0 0 1 1 1 5 5
60	167	40	6	6—	6	5*	7	12		0 0 0 0 1 1 1 7
60	168	40	4	6	9	8	9	18		0 0 0 0 1 1 3 5 5
60	169	40	4	6	8	7	8	16		0 0 0 0 1 1 3 7
60	170	40	4	6	9	8	9	18		0 0 0 0 1 1 5 5 7
60	171	40	4	6	10	9	10	20		0 0 0 0 1 3 3 3
60	172	40	4	6	10	9	10	20		0 0 0 0 1 3 3 5 5
60	173	40	4	6	10	9	10	20		0 0 0 0 1 3 3 7
60	174	40	4	6	12	11	12	24		0 0 0 0 1 3 5 5 5 5 5 5
60	175	40	4	6	15	14	15	30		0 0 0 0 1 3 5 5 7
60	176	40	4	6	12	11	12	24		0 0 0 0 1 5 5 5 5 5 7
60	177	40	4	6	10	9	10	20		0 0 0 0 3 3 3 5 5
60	178	40	4	6—	6	5*	7	12		0 0 1 1 1 1 5
60	179	40	4	6	7	6	7	14		0 0 1 1 1 3 5
60	180	40	4	6	8	7	8	16		0 0 1 1 1 5 5 5
60	181	40	4	6	7	6	7	14		0 0 1 1 1 5 7
60	182	40	4	6	9	8	9	18		0 0 1 1 3 5 5 5
60	183	40	4	6	9	8	9	18		0 0 1 1 5 5 5 5 7
60	184	40	4	6	10	9	10	20		0 0 1 3 3 3 5
60	185	40	4	6	10	9	10	20		0 0 1 3 3 5 5 5
60	186	40	4	6	15	14	15	30		0 0 1 3 5 5 5 7
60	187	40	4	6	10	9	10	20		0 0 3 3 3 3 5
60	188	40	4	6	10	9	10	20		0 0 3 3 3 5 5 5
60	189	40	5	5	6	6	6	13		1 1 1 1 3
60	190	40	3	5	6	6	6	13		1 1 1 1 7

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
60	191	40	4	5	7	7	7	15		1 1 1 3 3
60	192	40	4	5	6	6	6	13		1 1 1 3 5 5
60	193	40	4	5	6	6	7	13		1 1 1 3 7
60	194	40	3	5	7	6	7	14		1 1 1 5 5 5 5
60	195	40	3	5	7	7	7	15		1 1 1 5 5 7
60	196	40	3	5	7	6	7	14		1 1 1 7 7
60	197	40	4	5	7	7	7	15		1 1 3 3 3
60	198	40	4	5	7	7	7	15		1 1 3 5 5 5 5
60	199	40	3	5	7	7	7	15		1 1 5 5 5 7
60	200	40	4	5	8	8	8	17		1 3 3 3 3
60	201	40	4	5	7	6	7	14		1 3 3 3 5 5
60	202	40	4	5	7	7	7	15		1 3 3 3 7
60	203	40	4	5	7	6	7	14		1 3 3 5 5 5 5
60	204	40	4	5	9	8	9	18		1 3 5 5 5 7
60	205	40	4	5	8	7	8	16		3 3 3 5 5 5 5
60	206	39	4	6←	6*	5*	7	12		0 0 0 1 1 1 1 5
60	207	39	4	6	8	7	8	16		0 0 0 1 1 1 3 5
60	208	39	4	6	8	7	8	16		0 0 0 1 1 1 5 5 5
60	209	39	4	6	7	6	7	14		0 0 0 1 1 1 5 7
60	210	39	4	6	11	10	11	22		0 0 0 1 1 3 3 5
60	211	39	4	6	9	8	9	18		0 0 0 1 1 3 5 5 5
60	212	39	4	6	15	14	15	30		0 0 0 1 1 3 5 7
60	213	39	4	6	9	8	9	18		0 0 0 1 1 5 5 5 7
60	214	39	4	6	9	8	9	18		0 0 0 1 1 5 7 7
60	215	39	4	6	10	9	10	20		0 0 0 1 3 3 3 5
60	216	39	4	6	10	9	10	20		0 0 0 1 3 3 5 5 5
60	217	39	4	6	15	14	15	30		0 0 0 1 3 3 5 7
60	218	39	4	6	15	14	15	30	3S1	0 0 0 1 3 5 5 5 7
60	219	39	4	6	10	9	10	20		0 0 0 3 3 3 3 5
60	220	39	4	6	10	9	10	20		0 0 0 3 3 3 5 5 5
60	221	39	6	6	7	6	7	14		0 1 1 1 1 3
60	222	39	4	6	7	6	7	14		0 1 1 1 1 5 5
60	223	39	6	6	7	6	7	14		0 1 1 1 1 7
60	224	39	4	6	8	7	8	16		0 1 1 1 3 3
60	225	39	4	6	7	6	7	14		0 1 1 1 3 5 5
60	226	39	4	6	7	6	8	14		0 1 1 1 3 7
60	227	39	4	6	8	7	8	16		0 1 1 1 5 5 5 5
60	228	39	4	6	8	7	8	16		0 1 1 1 5 5 7
60	229	39	4	6	8	7	8	16		0 1 1 1 7 7
60	230	39	4	6	8	7	8	16		0 1 1 3 3 3
60	231	39	4	6	8	7	8	16		0 1 1 3 5 5 5 5
60	232	39	4	6	8	7	8	16		0 1 1 5 5 5 5 7
60	233	39	4	6	9	8	9	18		0 1 3 3 3 3
60	234	39	4	6	8	7	8	16		0 1 3 3 3 5 5
60	235	39	4	6	9	8	9	18		0 1 3 3 3 7
60	236	39	4	6	9	8	9	18		0 1 3 3 5 5 5 5
60	237	39	4	6	15	14	15	30		0 1 3 5 5 5 5 7
60	238	39	4	6	9	8	9	18		0 3 3 3 3 5 5
60	239	39	4	6	9	8	9	18		0 3 3 3 5 5 5 5
60	240	38	4	6	12	11	12	24		0 0 0 0 1 1 1 5
60	241	38	8	6	9	8	9	18		0 0 0 0 1 1 1 3 5
60	242	38	4	6	10	9	10	20		0 0 0 0 1 1 1 5 5 5
60	243	38	6	6	8	7	8	16		0 0 0 0 1 1 1 5 7
60	244	38	4	6	11	10	11	22		0 0 0 0 1 1 3 3 5
60	245	38	4	6	9	8	9	18		0 0 0 0 1 1 3 5 5 5
60	246	38	4	6	15	14	15	30		0 0 0 0 1 1 3 5 7
60	247	38	4	6	9	8	9	18		0 0 0 0 1 1 5 5 5 7
60	248	38	4	6	9	8	9	18		0 0 0 0 1 1 5 7 7
60	249	38	4	6	10	9	10	20		0 0 0 0 1 3 3 3 5
60	250	38	4	6	10	9	10	20		0 0 0 0 1 3 3 5 5 5

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
60	251	38	4	6	15	14	15	30		0 0 0 1 3 3 5 7
60	252	38	4	6	15	14	15	30		0 0 0 1 3 5 5 5 7
60	253	38	4	6	20	19	20	40		0 0 0 3 3 3 3 5
60	254	38	4	6	10	9	10	20		0 0 0 3 3 3 5 5 5
60	255	38	6	6	8	7	8	16		0 0 1 1 1 1 3
60	256	38	6	6	7	6*	7	14		0 0 1 1 1 1 7
60	257	38	4	6	10	9	10	20		0 0 1 1 1 3 3
60	258	38	4	6	9	8	9	18		0 0 1 1 1 3 5 5
60	259	38	4	6	8	7	8	16		0 0 1 1 1 3 7
60	260	38	4	6	9	8	9	18		0 0 1 1 1 5 5 5 5
60	261	38	4	6	9	8	9	18		0 0 1 1 1 5 5 7
60	262	38	4	6	8	7	8	16		0 0 1 1 1 7 7
60	263	38	4	6	10	9	10	20		0 0 1 1 3 3 3
60	264	38	4	6	9	8	9	18		0 0 1 1 3 5 5 5 5
60	265	38	4	6	9	8	9	18		0 0 1 1 5 5 5 5 7
60	266	38	4	6	10	9	10	20		0 0 1 3 3 3 3
60	267	38	4	6	10	9	10	20		0 0 1 3 3 3 5 5
60	268	38	4	6	10	9	10	20		0 0 1 3 3 3 7
60	269	38	4	6	10	9	10	20		0 0 1 3 3 5 5 5 5
60	270	38	4	6	15	14	15	30		0 0 1 3 5 5 5 5 7
60	271	38	4	6	10	9	10	20		0 0 3 3 3 5 5 5 5
60	272	38	6	5	7	7	7	15		1 1 1 1 3 5
60	273	38	3	5	9	8	9	18		1 1 1 1 5 5 5
60	274	38	3	5	7	7	7	15		1 1 1 1 5 7
60	275	38	4	5	8	7	8	16		1 1 1 3 3 5
60	276	38	4	5	8	7	8	16		1 1 1 3 5 5 5
60	277	38	4	5	8	8	8	17		1 1 1 3 5 7
60	278	38	3	5	9	8	9	18		1 1 1 5 5 5 7
60	279	38	3	5	8	7	8	16		1 1 1 5 7 7
60	280	38	4	5	8	8	8	17		1 1 3 3 3 5
60	281	38	4	5	10	9	10	20		1 1 3 3 5 5 5
60	282	38	4	5	8	8	8	17		1 1 3 5 5 5 7
60	283	38	3	5	11	10	11	22		1 1 5 5 5 7 7
60	284	38	4	5	9	8	9	18		1 3 3 3 3 5
60	285	38	4	5	7	7	7	15		1 3 3 3 5 5 5
60	286	38	4	5	10	9	10	20		1 3 3 3 5 7
60	287	38	4	5	9	9	9	19		1 3 3 5 5 5 5 7
60	288	38	4	5	8	8	8	17		3 3 3 3 5 5 5
60	289	37	6	6	8	7	8	16		0 0 0 1 1 1 1 3
60	290	37	4	6	10	9	10	20		0 0 0 1 1 1 1 5 5
60	291	37	6	6	7*	6*	8	14		0 0 0 1 1 1 1 7
60	292	37	4	6	10	9	10	20		0 0 0 1 1 1 3 3
60	293	37	4	6	10	9	10	20		0 0 0 1 1 1 3 5 5
60	294	37	4	6	8	7	8	16		0 0 0 1 1 1 3 7
60	295	37	4	6	9	8	9	18		0 0 0 1 1 1 5 5 5 5 5
60	296	37	4	6	9	8	9	18		0 0 0 1 1 1 5 5 7
60	297	37	4	6	8	7	8	16		0 0 0 1 1 1 7 7
60	298	37	4	6	10	9	10	20		0 0 0 1 1 3 3 3
60	299	37	4	6	14	13	14	28		0 0 0 1 1 3 3 5 5
60	300	37	4	6	10	9	10	20		0 0 0 1 1 3 3 7
60	301	37	4	6	9	8	9	18		0 0 0 1 1 3 5 5 5 5 5
60	302	37	4	6	15	14	15	30		0 0 0 1 1 3 5 5 7
60	303	37	4	6	10	9	10	20		0 0 0 1 1 3 7 7
60	304	37	4	6	9	8	9	18		0 0 0 1 1 5 5 5 5 7
60	305	37	4	6	12	11	12	24		0 0 0 1 1 5 5 7 7
60	306	37	4	6	10	9	10	20		0 0 0 1 3 3 3 3
60	307	37	4	6	10	9	10	20		0 0 0 1 3 3 3 5 5
60	308	37	4	6	10	9	10	20		0 0 0 1 3 3 3 7
60	309	37	4	6	10	9	10	20		0 0 0 1 3 3 5 5 5 5 5
60	310	37	4	6	15	14	15	30		0 0 0 1 3 3 5 5 7

Table 1 (continued)

n	ϕ	k	d	Dp	R	Rp	Rs	N	Comp	Roots
60	311	37	4	6	15	14	15	30		0 0 0 1 3 5 5 5 5 7
60	312	37	4	6	12	11	12	24		0 0 3 3 3 3 5 5
60	313	37	4	6	10	9	10	20		0 0 3 3 3 5 5 5 5
60	314	37	6	6	8	7	8	16		0 1 1 1 1 3 5
60	315	37	6	6	10	9	10	20		0 1 1 1 1 5 5 5
60	316	37	6	6	8	7	8	16		0 1 1 1 1 5 7
60	317	37	4	6	9	8	9	18		0 1 1 1 3 3 5
60	318	37	4	6	9	8	9	18		0 1 1 1 3 5 5 5
60	319	37	4	6	15	14	15	30		0 1 1 1 3 5 7
60	320	37	4	6	10	9	10	20		0 1 1 1 5 5 5 7
60	321	37	4	6	9	8	9	18		0 1 1 1 5 7 7
60	322	37	4	6	9	8	9	18		0 1 1 3 3 3 5
60	323	37	4	6	11	10	11	22		0 1 1 3 3 5 5 5
60	324	37	4	6	15	14	15	30		0 1 1 3 5 5 5 7
60	325	37	4	6	12	11	12	24		0 1 1 5 5 5 7 7
60	326	37	4	6	10	9	10	20		0 1 3 3 3 3 5
60	327	37	4	6	8	7	8	16		0 1 3 3 3 5 5 5
60	328	37	4	6	15	14	15	30		0 1 3 3 3 5 7
60	329	37	4	6	15	14	15	30		0 1 3 3 5 5 5 7
60	330	37	4	6	9	8	9	18		0 3 3 3 3 5 5 5
60	331	36	6	7	12	11	12	24		0 0 0 0 1 1 1 1 3
60	332	36	6	7	12	11	12	24		0 0 0 0 1 1 1 1 7
60	333	36	6	7	10	9	10	20		0 0 0 0 1 1 1 3 3
60	334	36	8	7	10	9	10	20		0 0 0 0 1 1 3 5 5
60	335	36	8	7	9	8	9	18		0 0 0 0 1 1 1 3 7
60	336	36	4	7	12	11	12	24		0 0 0 0 1 1 1 5 5 5 5
60	337	36	6	7	9	8	9	18		0 0 0 0 1 1 1 5 5 7
60	338	36	6	7	8	7*	8	16		0 0 0 0 1 1 1 7 7
60	339	36	4	7	11	10	11	22		0 0 0 0 1 1 3 3 3
60	340	36	4	7	10	9	10	20		0 0 0 0 1 1 3 3 7
60	341	36	4	7	12	11	12	24		0 0 0 0 1 1 3 5 5 5 5
60	342	36	4	7	15	14	15	30		0 0 0 0 1 1 3 5 5 7
60	343	36	4	7	10	9	10	20		0 0 0 0 1 1 3 7 7
60	344	36	4	7	12	11	12	24		0 0 0 0 1 1 5 5 5 5 7
60	345	36	4	7	20	19	20	40		0 0 0 0 1 3 3 3 3
60	346	36	4	7	10	9	10	20		0 0 0 0 1 3 3 5 5
60	347	36	4	7	10	9	10	20		0 0 0 0 1 3 3 3 7
60	348	36	4	7	12	11	12	24		0 0 0 0 1 3 3 5 5 5 5
60	349	36	4	7	15	14	15	30		0 0 0 0 1 3 3 5 5 7
60	350	36	4	7	15	14	15	30	3S2	0 0 0 0 1 3 5 5 5 5 7
60	351	36	4	7	12	11	12	24		0 0 0 0 3 3 3 5 5 5 5
60	352	36	6	7	8	7*	9	16		0 0 1 1 1 1 3 5
60	353	36	4	7	10	9	10	20		0 0 1 1 1 1 5 5 5
60	354	36	6	7	8	7*	9	16		0 0 1 1 1 1 5 7
60	355	36	4	7	11	10	11	22		0 0 1 1 1 3 3 5
60	356	36	4	7	10	9	10	20		0 0 1 1 1 3 5 5 5
60	357	36	4	7	15	14	15	30		0 0 1 1 1 3 5 7
60	358	36	4	7	10	9	10	20		0 0 1 1 1 5 5 5 7
60	359	36	4	7	9	8	9	18		0 0 1 1 1 5 7 7
60	360	36	4	7	11	10	11	22		0 0 1 1 3 3 3 5
60	361	36	4	7	14	13	14	28		0 0 1 1 3 3 5 5 5
60	362	36	4	7	15	14	15	30		0 0 1 1 3 5 5 5 7
60	363	36	4	7	12	11	12	24		0 0 1 1 5 5 5 7 7
60	364	36	4	7	10	9	10	20		0 0 1 3 3 3 3 5
60	365	36	4	7	10	9	10	20		0 0 1 3 3 3 5 5 5
60	366	36	4	7	15	14	15	30		0 0 1 3 3 3 5 7
60	367	36	4	7	15	14	15	30		0 0 1 3 3 5 5 5 7
60	368	36	4	7	12	11	12	24		0 0 3 3 3 3 5 5 5
60	369	36	6	6	8	7*	8	16		1 1 1 1 3 5 5
60	370	36	5	6	8	8	8	17		1 1 1 1 3 7

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
60	371	36	3	6	8	8	8	17		1 1 1 1 5 5 7
60	372	36	4	6	9	8	9	18		1 1 1 3 3 3
60	373	36	4	6	10	9	10	20		1 1 1 3 3 5 5
60	374	36	4	6	8	8	8	17		1 1 1 3 3 7
60	375	36	6	6	8	7*	8	16		1 1 1 3 5 5 5 5
60	376	36	4	6	9	8	9	18		1 1 1 3 5 5 7
60	377	36	4	6	9	8	9	18		1 1 1 3 7 7
60	378	36	3	6	9	8	9	18		1 1 1 5 5 5 5 7
60	379	36	3	6	11	11	11	23		1 1 1 5 5 7 7
60	380	36	3	6	8	8	8	17		1 1 1 7 7 7
60	381	36	4	6	10	9	10	20		1 1 3 3 3 5 5
60	382	36	4	6	9	8	9	18		1 1 3 3 3 7
60	383	36	4	6	9	8	9	18		1 1 3 5 5 5 7
60	384	36	4	6	9	9	9	19		1 3 3 3 3 5 5
60	385	36	4	6	9	9	9	19		1 3 3 3 3 7
60	386	36	7	6	8	7*	8	16		1 3 3 3 5 5 5 5
60	387	36	4	6	10	9	10	20		1 3 3 3 5 5 7
60	388	36	4	6	9	9	9	19		1 3 3 5 5 5 5 7
60	389	35	8	7	8	7*	9	16		0 0 0 1 1 1 1 3 5
60	390	35	4	7	12	11	12	24		0 0 0 1 1 1 1 5 5 5
60	391	35	6	7	9	8	9	18		0 0 0 1 1 1 1 5 7
60	392	35	4	7	11	10	11	22		0 0 0 1 1 1 3 3 5
60	393	35	4	7	10	9	10	20		0 0 0 1 1 1 3 5 5 5
60	394	35	4	7	15	14	15	30		0 0 0 1 1 1 3 5 7
60	395	35	4	7	10	9	10	20		0 0 0 1 1 1 5 5 5 7
60	396	35	4	7	9	8	9	18		0 0 0 1 1 1 5 7 7
60	397	35	4	7	11	10	11	22		0 0 0 1 1 3 3 3 5
60	398	35	4	7	14	13	14	28		0 0 0 1 1 3 3 5 5 5
60	399	35	4	7	15	14	15	30		0 0 0 1 1 3 3 5 7
60	400	35	4	7	15	14	15	30		0 0 0 1 1 3 5 5 5 7
60	401	35	4	7	15	14	15	30		0 0 0 1 1 3 5 7 7
60	402	35	4	7	12	11	12	24		0 0 0 1 1 5 5 5 7 7
60	403	35	4	7	11	10	11	22		0 0 0 1 3 3 3 3 5
60	404	35	4	7	10	9	10	20		0 0 0 1 3 3 3 5 5 5
60	405	35	4	7	15	14	15	30	5S1	0 0 0 1 3 3 3 5 7
60	406	35	4	7	15	14	15	30		0 0 0 1 3 3 5 5 5 7
60	407	35	4	7	12	11	12	24		0 0 0 3 3 3 3 5 5 5
60	408	35	6	7	9	8	9	18		0 1 1 1 1 3 3
60	409	35	6	7	9	8	9	18		0 1 1 1 1 3 5 5
60	410	35	6	7	9	8	9	18		0 1 1 1 1 3 7
60	411	35	4	7	13	12	13	26		0 1 1 1 1 5 5 5 5
60	412	35	6	7	9	8	9	18		0 1 1 1 1 5 5 7
60	413	35	6	7	9	8	9	18		0 1 1 1 1 7 7
60	414	35	4	7	10	9	10	20		0 1 1 1 3 3 3
60	415	35	4	7	11	10	11	22		0 1 1 1 3 3 5 5
60	416	35	4	7	9	8	9	18		0 1 1 1 3 3 7
60	417	35	6	7	9	8	9	18		0 1 1 1 3 5 5 5 5
60	418	35	4	7	15	14	15	30		0 1 1 1 3 5 5 7
60	419	35	4	7	10	9	10	20		0 1 1 1 3 7 7
60	420	35	6	7	10	9	10	20		0 1 1 1 5 5 5 5 7
60	421	35	4	7	12	11	12	24		0 1 1 1 5 5 7 7
60	422	35	4	7	9	8	9	18		0 1 1 1 7 7 7
60	423	35	4	7	9	8	9	18		0 1 1 3 3 3 3
60	424	35	4	7	11	10	11	22		0 1 1 3 3 3 5 5
60	425	35	4	7	10	9	10	20		0 1 1 3 3 3 7
60	426	35	4	7	11	10	11	22		0 1 1 3 3 5 5 5 5
60	427	35	4	7	15	14	15	30		0 1 1 3 5 5 5 5 7
60	428	35	4	7	13	12	13	26		0 1 1 5 5 5 5 7 7
60	429	35	4	7	10	9	10	20		0 1 3 3 3 3 5 5
60	430	35	4	7	10	9	10	20		0 1 3 3 3 3 7

Table 1 (continued)

n	#	k	d	Rp	R	Rp	Rs	N	Comp	Roots
60	431	35	8	7	9	8	9	18		0 1 3 3 3 5 5 5 5
60	432	35	4	7	15	14	15	30		0 1 3 3 3 5 5 7
60	433	35	4	7	15	14	15	30		0 1 3 3 5 5 5 5 7
60	434	35	4	7	13	12	13	26		0 3 3 3 3 5 5 5 5
60	435	34	8	7	12	11	12	24		0 0 0 0 1 1 1 1 3 5
60	436	34	4	7	12	11	12	24		0 0 0 0 1 1 1 1 5 5 5
60	437	34	6	7	12	11	12	24		0 0 0 0 1 1 1 1 5 7
60	438	34	8	7	11	10	11	22		0 0 0 0 1 1 1 3 3 5
60	439	34	8	7	10	9	10	20		0 0 0 0 1 1 1 3 5 5 5
60	440	34	8	7	15	14	15	30		0 0 0 0 1 1 1 3 5 7
60	441	34	6	7	10	9	10	20		0 0 0 0 1 1 1 5 5 5 7
60	442	34	6	7	10	9	10	20		0 0 0 0 1 1 1 5 7 7
60	443	34	4	7	11	10	11	22		0 0 0 0 1 1 3 3 3 5
60	444	34	4	7	14	13	14	28		0 0 0 0 1 1 3 3 5 5 5
60	445	36	4	7	15	14	15	30		0 0 0 0 1 1 3 3 5 7
60	446	34	4	7	15	14	15	30		0 0 0 0 1 1 3 5 5 5 7
60	447	34	4	7	15	14	15	30		0 0 0 0 1 1 3 5 7 7
60	448	34	4	7	12	11	12	24		0 0 0 0 1 1 5 5 5 7 7
60	449	34	4	7	20	19	20	40		0 0 0 0 1 3 3 3 3 5
60	450	36	8	7	10	9	10	20		0 0 0 0 1 3 3 3 5 5 5
60	451	34	4	7	15	14	15	30		0 0 0 0 1 3 3 3 5 7
60	452	34	4	7	15	14	15	30		0 0 0 0 1 3 3 5 5 5 7
60	453	34	4	7	20	19	20	40		0 0 0 0 3 3 3 3 5 5 5
60	454	34	6	7	10	9	10	20		0 0 1 1 1 1 3 5 5
60	455	34	6	7	9	8	9	18		0 0 1 1 1 1 3 7
60	456	34	6	7	9	8	9	18		0 0 1 1 1 1 5 5 7
60	457	34	4	7	11	10	11	22		0 0 1 1 1 3 3 3
60	458	34	4	7	14	13	14	28		0 0 1 1 1 3 3 5 5
60	459	34	4	7	10	9	10	20		0 0 1 1 1 3 3 7
60	460	34	6	7	10	9	10	20		0 0 1 1 1 3 5 5 5 5
60	461	34	4	7	15	14	15	30		0 0 1 1 1 3 5 5 7
60	462	34	4	7	10	9	10	20		0 0 1 1 1 3 7 7
60	463	34	6	7	10	9	10	20		0 0 1 1 1 5 5 5 5 7
60	464	34	4	7	12	11	12	24		0 0 1 1 1 5 5 7 7
60	465	34	4	7	10	9	10	20		0 0 1 1 1 7 7 7
60	466	34	4	7	14	13	14	28		0 0 1 1 3 3 3 5 5
60	467	34	4	7	10	9	10	20		0 0 1 1 3 3 3 7
60	468	34	4	7	15	14	15	30		0 0 1 1 3 3 5 5 5 7
60	469	34	4	7	11	10	11	22		0 0 1 3 3 3 3 5 5
60	470	36	4	7	11	10	11	22		0 0 1 3 3 3 3 7
60	471	34	8	7	10	9	10	20		0 0 1 3 3 3 5 5 5 5
60	472	34	4	7	15	14	15	30		0 0 1 3 3 3 5 7
60	473	34	4	7	15	14	15	30		0 0 1 3 3 5 5 5 5 7
60	474	34	6	7	9	9	9	19		1 1 1 1 3 3 5
60	475	34	6	7	9	8	9	18		1 1 1 1 3 5 5 5
60	476	34	6	7	10	9	10	20		1 1 1 1 3 5 7
60	477	34	3	7	9	8	9	18		1 1 1 1 5 5 5 7
60	478	34	3	7	9	9	9	19		1 1 1 1 5 7 7
60	479	34	4	7	10	9	10	20		1 1 1 3 3 3 5
60	480	34	4	7	10	9	10	20		1 1 1 3 3 5 5 5
60	481	34	4	7	10	10	10	21		1 1 1 3 3 5 7
60	482	34	4	7	10	9	10	20		1 1 1 3 5 5 5 7
60	483	34	4	7	10	10	10	21		1 1 1 3 5 7 7
60	484	34	3	7	11	11	11	23		1 1 1 5 5 5 7 7
60	485	34	3	7	10	10	10	21		1 1 1 5 7 7 7
60	486	34	4	7	9	9	9	19		1 1 3 3 3 3 5
60	487	34	4	7	10	9	10	20		1 1 3 3 3 5 5 5
60	488	34	4	7	10	10	10	21		1 1 3 3 3 5 7
60	489	34	4	7	11	10	11	22		1 1 3 3 5 5 5 7
60	490	34	4	7	12	12	12	25		1 1 3 5 5 5 7 7

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	M	Comp	Roots
60	491	34	7	7	9	9	9	19		1 3 3 3 3 5 5 5
60	492	34	4	7	11	11	11	23		1 3 3 3 5 7
60	493	34	4	7	10	9	10	20		1 3 3 5 5 5 7
60	494	33	6	8	10	9	10	20		0 0 0 1 1 1 1 3 3
60	495	33	6	8	10	9	10	20		0 0 0 1 1 1 1 3 5 5
60	496	33	0	8	9	8	10	18		0 0 0 1 1 1 1 3 7
60	497	33	4	8	14	13	14	28		0 0 0 1 1 1 1 5 5 5 5
60	498	33	6	8	10	9	10	20		0 0 0 1 1 1 1 5 5 7
60	499	33	6	8	10	9	10	20		0 0 0 1 1 1 1 7 7
60	500	33	8	8	11	10	11	22		0 0 0 1 1 3 3 3
60	501	33	4	8	14	13	14	28		0 0 0 1 1 3 3 5 5
60	502	33	4	8	10	9	11	20		0 0 0 1 1 3 3 7
60	503	33	8	8	10	9	10	20		0 0 0 1 1 3 5 5 5 5
60	504	33	4	8	15	14	15	30		0 0 0 1 1 3 5 5 7
60	505	33	4	8	10	9	10	20		0 0 0 1 1 3 7 7
60	506	33	6	8	10	9	10	20		0 0 0 1 1 5 5 5 5 7
60	507	33	4	8	12	11	12	24		0 0 0 1 1 5 5 7 7
60	508	33	4	8	10	9	10	20		0 0 0 1 1 7 7 7
60	509	33	4	8	12	11	12	24		0 0 0 1 3 3 3 3
60	510	33	4	8	14	13	14	28		0 0 0 1 3 3 3 5 5
60	511	33	4	8	11	10	11	22		0 0 0 1 3 3 3 7
60	512	33	4	8	14	13	14	28		0 0 0 1 3 3 5 5 5 5
60	513	33	4	8	15	14	15	30		0 0 0 1 3 3 5 5 7
60	514	33	4	8	14	13	14	28		0 0 0 1 3 3 7 7
60	515	33	4	8	15	14	15	30		0 0 0 1 3 5 5 5 5 7
60	516	33	4	8	15	14	15	30		0 0 0 1 3 5 5 7 7
60	517	33	4	8	14	13	14	28		0 0 0 1 5 5 5 5 7 7
60	518	33	4	8	12	11	12	24		0 0 0 3 3 3 3 5 5
60	519	33	4	8	12	11	13	24		0 0 0 3 3 3 3 7
60	520	33	8	8	10	9	10	20		0 0 0 3 3 3 5 5 5 5
60	521	33	4	8	15	14	15	30		0 0 0 3 3 3 5 5 7
60	522	33	4	8	15	14	15	30		0 0 0 3 3 5 5 5 7
60	523	33	4	8	14	13	14	28		0 0 0 3 3 3 3 5 5 5
60	524	33	6	8	10	9	10	20		0 1 1 1 1 3 3 5
60	525	33	6	8	10	9	10	20		0 1 1 1 1 3 5 5 5
60	526	33	6	8	15	14	15	30		0 1 1 1 1 3 5 7
60	527	33	6	8	10	9	10	20		0 1 1 1 1 5 5 5 7
60	528	33	6	8	10	9	10	20		0 1 1 1 1 5 7 7
60	529	33	4	8	11	10	11	22		0 1 1 1 3 3 3 5
60	530	33	4	8	11	10	11	22		0 1 1 1 3 3 5 5 5
60	531	33	4	8	15	14	15	30		0 1 1 1 3 3 5 7
60	532	33	4	8	15	14	15	30		0 1 1 1 3 5 5 5 7
60	533	33	4	8	15	14	15	30		0 1 1 1 3 5 7 7
60	534	33	4	8	12	11	12	24		0 1 1 1 5 5 5 5 7 7
60	535	33	4	8	11	10	11	22		0 1 1 1 5 7 7 7
60	536	33	4	8	11	10	11	22		0 1 1 3 3 3 3 5
60	537	33	4	8	11	10	11	22		0 1 1 3 3 3 5 5 5
60	538	33	4	8	15	14	15	30		0 1 1 3 3 3 5 7
60	539	33	4	8	15	14	15	30		0 1 1 3 3 5 5 5 7
60	540	33	4	8	15	14	15	30		0 1 1 3 5 5 5 7 7
60	541	33	8	8	11	10	11	22		0 1 3 3 3 3 5 5 5
60	542	33	4	8	15	14	15	30		0 1 3 3 3 3 5 7
60	543	33	4	8	15	14	15	30		0 1 3 3 3 5 5 5 7
60	544	32	8	8	12	11	12	24		0 0 0 0 1 1 1 1 3 5 5
60	545	32	8	8	12	11	12	24		0 0 0 0 1 1 1 1 3 7
60	546	32	6	8	12	11	12	24		0 0 0 0 1 1 1 1 5 5 7
60	547	32	6	8	12	11	12	24		0 0 0 0 1 1 1 3 3 3
60	548	32	8	8	14	13	14	28		0 0 0 0 1 1 1 3 3 5 5
60	549	32	8	8	10	9	11	20		0 0 0 0 1 1 1 3 3 7
60	550	32	8	8	12	11	12	24		0 0 0 0 1 1 1 3 5 5 5 5

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
60	551	32	8	8	15	14	15	30		0 0 0 0 1 1 1 3 5 5 7
60	552	32	8	8	10	9	10	20		0 0 0 0 1 1 1 3 7 7
60	553	32	6	8	12	11	12	24		0 0 0 0 1 1 1 5 5 5 5 7
60	554	32	6	8	12	11	12	24		0 0 0 0 1 1 1 5 5 7 7
60	555	32	6	8	10	9	10	20		0 0 0 0 1 1 1 7 7 7
60	556	32	4	8	14	13	14	28		0 0 0 0 1 1 3 3 3 5 5
60	557	32	4	8	12	11	12	24		0 0 0 0 1 1 3 3 3 7
60	558	32	4	8	15	14	15	30		0 0 0 0 1 1 3 3 5 5 7
60	559	32	4	8	15	14	15	30		0 0 0 0 1 1 3 5 5 5 7
60	560	32	4	8	15	14	15	30		0 0 0 0 1 1 3 5 5 7 7
60	561	32	4	8	20	19	20	40		0 0 0 0 1 3 3 3 3 5 5
60	562	32	4	8	20	19	20	40		0 0 0 0 1 3 3 3 3 7
60	563	32	8	8	12	11	12	24		0 0 0 0 1 3 3 3 5 5 5 5
60	564	32	4	8	15	14	15	30		0 0 0 0 1 3 3 3 5 5 7
60	565	32	4	8	15	14	15	30		0 0 0 0 1 3 3 5 5 5 5 7
60	566	32	6	8	11	10	11	22		0 0 1 1 1 1 3 3 5
60	567	32	6	8	10	9	10	20		0 0 1 1 1 1 3 5 5 5
60	568	32	6	8	15	14	15	30		0 0 1 1 1 1 3 5 7
60	569	32	6	8	10	9	11	20		0 0 1 1 1 1 5 5 5 7
60	570	32	6	8	10	9	11	20		0 0 1 1 1 1 5 7 7
60	571	32	4	8	11	10	11	22		0 0 1 1 1 3 3 3 5
60	572	32	4	8	14	13	14	28		0 0 1 1 1 3 3 5 5 5
60	573	32	4	8	15	14	15	30		0 0 1 1 1 3 3 5 7
60	574	32	4	8	15	14	15	30		0 0 1 1 1 3 5 5 5 7
60	575	32	4	8	15	14	15	30		0 0 1 1 1 3 5 7 7
60	576	32	4	8	12	11	12	24		0 0 1 1 1 5 5 7 7 7
60	577	32	4	8	11	10	11	22		0 0 1 1 1 5 7 7 7
60	578	32	4	8	11	10	11	22		0 0 1 1 3 3 3 3 5
60	579	32	4	8	14	13	14	28		0 0 1 1 3 3 3 5 5 5
60	580	32	4	8	15	14	15	30		0 0 1 1 3 3 3 5 7
60	581	32	4	8	15	14	15	30		0 0 1 1 3 3 5 5 5 7
60	582	32	4	8	15	14	15	30		0 0 1 1 3 5 5 7 7
60	583	32	8	8	12	11	12	24		0 0 1 3 3 3 3 5 5 5
60	584	32	4	8	15	14	15	30		0 0 1 3 3 3 3 5 7
60	585	32	4	8	15	14	15	30		0 0 1 3 3 3 5 5 5 7
60	586	32	5	7	9	9	9	19		1 1 1 1 3 3 3
60	587	32	5	7	10	9	10	20		1 1 1 1 3 3 7
60	588	32	6	7	12	11	12	24		1 1 1 1 3 5 5 5 5
60	589	32	6	7	10	9	10	20		1 1 1 1 3 5 5 7
60	590	32	5	7	10	9	10	20		1 1 1 1 3 7 7
60	591	32	3	7	12	11	12	24		1 1 1 1 5 5 5 5 7
60	592	32	3	7	10	9	10	20		1 1 1 1 7 7 7
60	593	32	5	7	10	9	10	20		1 1 1 3 3 3 3
60	594	32	4	7	10	10	10	21		1 1 1 3 3 3 5 5
60	595	32	4	7	10	10	10	21		1 1 1 3 3 3 7
60	596	32	6	7	10	9	10	20		1 1 1 3 3 5 5 5 5
60	597	32	4	7	11	10	11	22		1 1 1 3 3 5 5 7
60	598	32	4	7	12	12	12	25		1 1 1 3 3 7 7
60	599	32	6	7	10	9	10	20		1 1 1 3 5 5 5 5 7
60	600	32	4	7	13	12	13	26		1 1 1 3 5 5 7 7
60	601	32	4	7	10	10	11	21		1 1 1 3 7 7 7
60	602	32	3	7	12	11	12	24		1 1 1 5 5 5 5 7 7
60	603	32	3	7	12	12	12	25		1 1 1 5 5 7 7 7
60	604	32	4	7	10	10	10	21		1 1 3 3 3 3 7
60	605	32	7	7	10	9	10	20		1 1 3 3 3 5 5 5 5
60	606	32	4	7	11	11	11	23		1 1 3 3 3 5 5 7
60	607	32	4	7	13	13	13	27		1 1 3 3 3 7 7
60	608	32	4	7	11	11	11	23		1 1 3 3 5 5 5 5 7
60	609	32	4	7	13	12	13	26		1 1 3 5 5 5 5 7 7
60	610	32	7	7	12	11	12	24		1 3 3 3 3 5 5 5 5

Table 1 (continued)

a	θ	h	d	Δp	R	Δp	Δe	N Comp	Roots
60	611	32	4	7	11	11	11	23	1 3 3 3 3 5 5 7
60	612	32	0	7	10	9	10	20	1 3 3 3 5 5 5 5
62	1	56	4	3-	3	2°	3	6	0 0 1
62	2	51	4	3-	3°	2°	4	6	0 1 1
62	3	50	4	4	5	4	5	10	0 0 1 3
62	4	50	4	4	5	4	5	10	0 0 1 5
62	5	50	4	4	5	4	5	10	0 0 1 15
62	6	47	5	3	4°	4°	4°	9	1 1 3
62	7	47	5	3	4°	4°	4°	9	1 1 5
62	8	47	5	3	4°	4°	4°	9	1 1 7
62	9	47	5	3	4°	4°	4°	9	1 1 11
62	10	47	5	3	4°	4°	4°	9	1 1 15
62	11	46	6	4	5	4°	5	10	0 1 1 3
62	12	46	6	4	5	4°	5	10	0 1 1 5
62	13	46	6	4	5	4°	5	10	0 1 1 7
62	14	46	6	4	5	4°	5	10	0 1 1 11
62	15	46	6	4	5	4°	5	10	0 1 1 15
62	16	45	6	5	6	5	6	12	0 0 1 1 3
62	17	45	6	5	6	5	6	12	0 0 1 1 5
62	18	45	6	5	6	5	6	12	0 0 1 1 7
62	19	45	6	5	6	5	6	12	0 0 1 1 11
62	20	45	6	5	6	5	6	12	0 0 1 1 15
62	21	45	4	5	7	6	7	14	0 0 1 3 5
62	22	45	4	5	9	8	9	18	0 0 1 3 7
62	23	45	4	5	6	5	6	12	0 0 1 3 15
62	24	45	4	5	7	6	7	14	0 0 1 5 7
62	25	42	6	5	6	6	6	13	1 1 3 5
62	26	42	6	5	6	5°	6	12	1 1 3 7
62	27	42	6	5	6	5°	6	12	1 1 3 11
62	28	42	5	5	6	6	6	13	1 1 3 15
62	29	42	6	5	6	5°	6	12	1 1 5 7
62	30	42	5	5	6	5°	6	12	1 1 5 11
62	31	42	6	5	6	6	6	13	1 1 5 15
62	32	42	6	5	6	5°	6	12	1 1 7 11
62	33	42	5	5	6	6	6	13	1 1 7 15
62	34	42	6	5	6	6	6	13	1 1 11 15
62	35	41	6	6	7	6	8	14	0 1 1 3 3
62	36	41	6	6	7	6	7	14	0 1 1 3 5
62	37	41	6	6	9	8	9	18	0 1 1 3 7
62	38	41	6	6	7	6	7	14	0 1 1 3 11
62	39	41	6	6	7	6	7	14	0 1 1 3 15
62	40	41	6	6	7	6	8	14	0 1 1 5 5
62	41	41	6	6	7	6	7	14	0 1 1 5 7
62	42	41	6	6	7	6	7	14	0 1 1 5 11
62	43	41	6	6	9	8	9	18	0 1 1 5 15
62	44	41	6	6	7	6	7	14	0 1 1 7 11
62	45	41	6	6	7	6	7	14	0 1 1 7 15
62	46	41	6	6	9	8	9	18	0 1 1 11 15
62	47	41	6	6	7	6	8	14	0 1 1 15 15
62	48	40	8	6	8	7	8	16	0 0 1 1 3 5
62	49	40	6	6	9	8	9	18	0 0 1 1 3 7
62	50	40	8	6	7	6°	7	14	0 0 1 1 3 11
62	51	40	8	6	7	6°	7	14	0 0 1 1 3 15
62	52	40	8	6	7	6°	7	14	0 0 1 1 5 7
62	53	40	8	6	7	6°	7	14	0 0 1 1 5 11
62	54	40	8	6	9	8	9	18	0 0 1 1 5 15
62	55	40	8	6	7	6°	7	14	0 0 1 1 7 11
62	56	40	8	6	7	6°	7	14	0 0 1 1 7 15
62	57	40	6	6	9	8	9	18	0 0 1 1 11 15
62	58	40	4	6	11	10	11	22	0 0 1 3 5 7

Table 1 (continued)

n	e	h	d	Sp	R	Sp	Rs	N	Comp	Roots
62	59	40	4	6	11	10	11	22		0 0 1 3 5 11
62	60	40	4	6	11	10	11	22		0 0 1 3 7 15
62	61	37	7	6	8	7*	8	16		1 1 3 3 5
62	62	37	6	6	8	7*	8	16		1 1 3 3 7
62	63	37	7	6	8	8	8	17		1 1 3 3 11
62	64	37	5	6	8	7*	8	16		1 1 3 3 15
62	65	37	7	6	8	7*	8	16		1 1 3 5 5
62	66	37	6	6	8	8	8	17		1 1 3 5 7
62	67	37	6	6	8	8	8	17		1 1 3 5 11
62	68	37	6	6	8	8	8	17		1 1 3 5 15
62	69	37	6	6	7*	7*	8	15		1 1 3 7 7
62	70	37	6	6	8	8	8	17		1 1 3 7 11
62	71	37	6	6	8	8	8	17		1 1 3 7 15
62	72	37	6	6	8	8	8	17		1 1 3 11 15
62	73	37	5	6	8	7*	8	16		1 1 3 15 15
62	74	37	7	6	7*	7*	8	15		1 1 5 5 7
62	75	37	5	6	7*	7*	8	15		1 1 5 5 11
62	76	37	6	6	8	8	8	17		1 1 5 7 11
62	77	37	6	6	8	8	8	17		1 1 5 7 15
62	78	37	6	6	8	8	8	17		1 1 5 11 15
62	79	37	6	6	8	7*	8	16		1 1 5 15 15
62	80	37	6	6	8	8	8	17		1 1 7 11 15
62	81	36	8	7	9	8	9	18		0 1 1 3 3 5
62	82	36	6	7	9	8	9	18		0 1 1 3 3 7
62	83	36	8	7	9	8	9	18		0 1 1 3 3 11
62	84	36	8	7	9	8	9	18		0 1 1 3 3 15
62	85	36	8	7	9	8	9	18		0 1 1 3 5 5
62	86	36	6	7	11	10	11	22		0 1 1 3 5 7
62	87	36	6	7	11	10	11	22		0 1 1 3 5 11
62	88	36	6	7	11	10	11	22		0 1 1 3 5 15
62	89	36	6	7	9	8	9	18		0 1 1 3 7 7
62	90	36	6	7	11	10	11	22		0 1 1 3 7 11
62	91	36	6	7	11	10	11	22		0 1 1 3 7 15
62	92	36	6	7	11	10	11	22		0 1 1 3 11 15
62	93	36	8	7	9	8	9	18		0 1 1 3 15 15
62	94	36	8	7	8	7*	9	16		0 1 1 5 5 7
62	95	36	8	7	8	7*	9	16		0 1 1 5 5 11
62	96	36	6	7	11	10	11	22		0 1 1 5 7 11
62	97	36	6	7	11	10	11	22		0 1 1 5 7 15
62	98	36	6	7	11	10	11	22		0 1 1 5 11 15
62	99	36	6	7	9	8	9	18		0 1 1 5 15 15
62	100	36	6	7	11	10	11	22		0 1 1 7 11 15
62	101	35	8	8	10	9	10	20		0 0 1 1 3 3 5
62	102	35	6	8	10	9	10	20		0 0 1 1 3 3 7
62	103	35	8	8	10	9	10	20		0 0 1 1 3 3 11
62	104	35	8	8	10	9	10	20		0 0 1 1 3 3 15
62	105	35	8	8	10	9	10	20		0 0 1 1 3 5 5
62	106	35	8	8	11	10	11	22		0 0 1 1 3 5 7
62	107	35	8	8	11	10	11	22		0 0 1 1 3 5 11
62	108	35	8	8	11	10	11	22		0 0 1 1 3 5 15
62	109	35	6	8	10	9	10	20		0 0 1 1 3 7 7
62	110	35	8	8	11	10	11	22		0 0 1 1 3 7 11
62	111	35	8	8	11	10	11	22		0 0 1 1 3 7 15
62	112	35	8	8	11	10	11	22		0 0 1 1 3 11 15
62	113	35	8	8	10	9	10	20		0 0 1 1 3 15 15
62	114	35	6	8	10	9	10	20		0 0 1 1 5 5 7
62	115	35	8	8	10	9	10	20		0 0 1 1 5 5 11
62	116	35	8	8	11	10	11	22		0 0 1 1 5 7 11
62	117	35	8	9	11	10	11	22		0 0 1 1 5 7 15
62	118	35	8	9	11	10	11	22		0 0 1 1 5 11 15

Table 1 (continued)

n	°	k	d	Bp	R	Bp	Bo	N	Comp	Roots
62	119	38	6	8	10	9	10	20		0 0 1 1 5 15 15
62	120	36	0	8	11	10	11	22		0 0 1 1 7 11 15
62	121	36	4	8	15	14	15	30		0 0 1 3 5 7 11
63	1	57	3	1·	1·	1·	2·	3		1
63	2	56	4	>-	3	2·	3	6		0 1
63	3	55	3	2	3	2·	3	6		1 21
63	4	54	4	3	4	3	4	8		0 1 21
63	5	54	3	2	3	2·	3	6		1 9
63	6	54	4	2	3	2·	3	6		1 27
63	7	54	3	2	3	3	3	7		7 9
63	8	53	4	3	4	3	4	8		0 1 9
63	9	53	4	3	5	4	5	10		0 1 27
63	10	53	4	3	4	3	4	8		0 7 9
63	11	52	4	>-	3·	3	3·	7		1 9 21
63	12	52	4	3	4	3	4	8		1 21 27
63	13	52	4	3	4	4	4	9		7 9 21
63	14	51	4	4	5	4	5	10		0 1 9 21
63	15	51	4	4	5	4	5	10		0 1 21 27
63	16	51	4	4	9	8	9	18		0 7 9 21
63	17	51	5	>-	3·	3·	4	7		1 3
63	18	51	3	>-	3·	3·	3·	7		1 5
63	19	51	3	>-	3·	3·	3·	7		1 7
63	20	51	4	3	4	4	4	9		1 9 27
63	21	51	3	>-	3·	3·	3·	7		1 11
63	22	51	3	>-	3·	3·	3·	7		1 15
63	23	51	3	>-	3·	3·	3·	7		1 31
63	24	51	3	3	4	3·	4	8		3 7
63	25	51	4	3	4	3·	4	8		7 9 27
63	26	50	6	4	5	4	5	10		0 1 3
63	27	50	4	4	5	4	5	10		0 1 5
63	28	50	4	<-	4	3·	4	8		0 1 7
63	29	50	4	4	7	6	7	14		0 1 9 27
63	30	50	4	<-	4	3·	4	8		0 1 11
63	31	50	4	<-	4	3·	4	8		0 1 15
63	32	50	6	<-	4	3·	5	8		0 1 31
63	33	50	4	4	5	4	5	10		0 3 7
63	34	50	4	4	7	6	7	14		0 7 9 27
63	35	49	5	3	5	4	5	10		1 3 21
63	36	49	5	>-	3·	3·	4·	7		1 5 21
63	37	49	4	3	4	4	4·	9		1 7 21
63	38	49	4	3	5	4	5	10		1 9 21 27
63	39	49	4	3	4	4	4·	9		1 11 21
63	40	49	4	3	4	4	4·	9		1 15 21
63	41	49	5	3	4	4	4·	9		1 21 31
63	42	49	4	3	5	5	5	11		3 7 21
63	43	49	4	3	7	6	7	14		7 9 21 27
63	44	48	6	4	6	5	6	12		0 1 3 21
63	45	48	6	4	5	4·	5	10		0 1 5 21
63	46	48	4	4	9	8	9	18		0 1 7 21
63	47	48	4	4	7	6	7	14		0 1 9 21 27
63	48	48	4	4	7	6	7	14		0 1 11 21
63	49	48	4	4	6	5	6	12		0 1 15 21
63	50	48	6	4	6	5	6	12		0 1 21 31
63	51	48	4	4	9	8	9	18		0 3 7 21
63	52	48	4	4	9	8	9	18		0 7 9 21 27
63	53	48	5	3	5	4·	5	10		1 3 9
63	54	48	5	3	5	4·	5	10		1 3 27
63	55	48	5	3	5	4·	5	10		1 5 9
63	56	48	4	3	4·	4·	4·	9		1 5 27
63	57	48	4	3	4·	4·	4·	9		1 7 9

Table 1 (continued)

a	θ	h	d	Sp	R	Sp	Ro	N	Comp	Roots
63	58	68	5	3	4*	4*	4*	9		1 7 27
63	59	68	3	3	4*	4*	4*	9		1 9 11
63	60	68	3	3	4*	4*	5	10		1 9 15
63	61	68	3	3	4*	4*	5	9		1 9 31
63	62	68	5	3	4*	4*	4*	9		1 11 27
63	63	68	6	3	4*	4*	5	9		1 15 27
63	64	68	4	3	5	4*	5	10		3 7 9
63	65	68	3	3	6	6	6	13	3S1	3 7 27
63	66	67	6	4	6	5	6	12		0 1 3 9
63	67	67	6	4	6	5	6	12		0 1 3 27
63	68	67	6	4	6	5	6	12		0 1 5 9
63	69	67	4	4	7	6	7	14		0 1 5 27
63	70	67	4	4	6	5	6	12		0 1 7 9
63	71	67	6	4	5	4*	5	10		0 1 7 27
63	72	67	4	4	5	4*	5	10		0 1 9 11
63	73	67	4	4	6	5	6	12		0 1 9 15
63	74	67	6	4	7	6	7	14		0 1 9 31
63	75	67	6	4	5	4*	5	10		0 1 11 27
63	76	67	6	4	7	6	7	14		0 1 15 27
63	77	67	4	4	7	6	7	14		0 3 7 9
63	78	67	4	4	7	6	7	14		0 3 7 27
63	79	66	5	4	6	6	6	13		1 3 9 21
63	80	66	6	4	5*	5	5*	11		1 3 21 27
63	81	66	7	4	5*	4*	6	N		1 5 9 21
63	82	66	6	4	5*	4*	5*	10		1 5 21 27
63	83	66	4	4	6	5	6	12		1 7 9 21
63	84	66	6	4	6	5	6	12		1 7 21 27
63	85	66	4	4	5*	4*	5*	10		1 9 11 21
63	86	66	4	4	5*	5	5*	11		1 9 15 21
63	87	66	6	4	6	5	6	12		1 9 21 31
63	88	66	6	4	5*	5	5*	11		1 11 21 27
63	89	66	6	4	6	5	6	12		1 15 21 27
63	90	66	4	4	7	6	7	14		3 7 9 21
63	91	66	4	4	7	7	7	15		3 7 21 27
63	92	65	6	5	7	6	7	14		0 1 3 9 21
63	93	65	6	5	9	8	9	18		0 1 3 21 27
63	94	65	8	5	7	6	7	14		0 1 5 9 21
63	95	65	6	5	7	6	7	14		0 1 5 21 27
63	96	65	4	5	9	8	9	18		0 1 7 9 21
63	97	65	6	5	9	8	9	18		0 1 7 21 27
63	98	65	4	5	7	6	7	14		0 1 9 11 21
63	99	65	6	5	9	8	9	18		0 1 9 15 21
63	100	65	6	5	7	6	7	14		0 1 9 21 31
63	101	65	6	5	7	6	7	14		0 1 11 21 27
63	102	65	6	5	7	6	7	14		0 1 15 21 27
63	103	65	4	5	9	8	9	18		0 3 7 9 21
63	104	65	4	5	9	8	9	18	3S2	0 3 7 21 27
63	105	45	7	4	5*	5*	6	11		1 3 5
63	106	45	5	4	5*	5*	5*	11		1 3 7
63	107	45	6	4	6	6	6	13		1 3 9 27
63	108	45	5	4	5*	5*	5*	11		1 3 11
63	109	45	5	4	5*	5*	5*	11		1 3 13
63	110	45	5	4	5*	5*	5*	11		1 3 15
63	111	45	7	4	5*	5*	6	11		1 3 31
63	112	45	3	4	6	5*	6	12		1 5 7
63	113	45	6	4	5*	5*	6	11		1 5 9 27
63	114	45	3	4	5*	5*	5*	11		1 5 11
63	115	45	3	4	5*	5*	5*	11		1 5 23
63	116	45	3	4	5*	5*	5*	11		1 5 31
63	117	45	6	4	6	5*	6	12		1 7 9 27

Table 1 (continued)

n	θ	h	d	Sp	R	Rp	Ro	N	Comp	Roots
63	118	45	3	4	6	6	6	13		1 7 11
63	119	45	4	4	5*	5*	5*	11		1 7 15
63	120	45	3	4	6	5*	6	12		1 7 31
63	121	45	6	4	5*	5*	5*	11		1 9 11 27
63	122	45	6	4	6	5*	6	12		1 9 15 27
63	123	45	6	4	6	5*	6	12		1 9 27 31
63	124	45	3	4	5*	5*	5*	11		1 11 15
63	125	45	3	4	6	6	6	13	383	1 11 23
63	126	45	4	4	7	7	7	15		3 7 9 27
63	127	45	4	4	6	6	6	13		3 7 15
63	128	44	8	5	7	6	7	14		0 1 3 5
63	129	44	6	5	6	5*	6	12		0 1 3 7
63	130	44	6	5	7	6	7	14		0 1 3 9 27
63	131	44	6	5	6	5*	6	12		0 1 3 11
63	132	44	6	5	6	5*	6	12		0 1 3 13
63	133	44	6	5	6	5*	6	12		0 1 3 15
63	134	44	8	5	7	6	7	14		0 1 3 31
63	135	44	6	5	7	6	7	14		0 1 5 7
63	136	44	6	5	7	6	7	14		0 1 5 9 27
63	137	44	6	5	6	5*	6	12		0 1 5 11
63	138	44	6	5	6	5*	6	12		0 1 5 23
63	139	44	6	5	6	5*	6	12		0 1 5 31
63	140	44	6	5	7	6	7	14		0 1 7 9 27
63	141	44	4	5	7	6	7	14		0 1 7 11
63	142	44	4	5	7	6	7	14		0 1 7 15
63	143	44	6	5	7	6	7	14		0 1 7 31
63	144	44	6	5	7	6	7	14		0 1 9 11 27
63	145	44	6	5	7	6	7	14		0 1 9 15 27
63	146	44	6	5	7	6	7	14		0 1 9 27 31
63	147	44	4	5	6	5*	6	12		0 1 11 15
63	148	44	4	5	7	6	7	14		0 1 11 23
63	149	44	4	5	9	8	9	18		0 3 7 9 27
63	150	44	4	5	7	6	7	14		0 3 7 15
63	151	43	7	5	7	6	7	14		1 3 5 21
63	152	43	6	5	6	6	6	13		1 3 7 21
63	153	43	6	5	7	7	7	15		1 3 9 21 27
63	154	43	6	5	6	6	6	13		1 3 11 21
63	155	43	7	5	6	6	6	13		1 3 13 21
63	156	43	5	5	7	7	7	15		1 3 15 21
63	157	43	7	5	7	6	7	14		1 3 21 31
63	158	43	6	5	7	6	7	14		1 5 7 21
63	159	43	7	5	7	6	7	14		1 5 9 21 27
63	160	43	6	5	6	6	6	13		1 5 11 21
63	161	43	6	5	6	6	6	13		1 5 21 23
63	162	43	6	5-	5*	5*	6	11		1 5 21 31
63	163	43	8	5	7	6	7	14		1 7 9 21 27
63	164	43	4	5	7	6	7	14		1 7 11 21
63	165	43	4	5	7	6	7	14		1 7 15 21
63	166	43	6	5	6	6	6	13		1 7 21 31
63	167	43	6	5	6	6	6	13		1 9 11 21 27
63	168	43	6	5	7	6	7	14		1 9 15 21 27
63	169	43	6	5	6	6	6	13		1 9 21 27 31
63	170	43	4	5	6	6	6	13		1 11 15 21
63	171	43	4	5	7	7	7	15		1 11 21 23
63	172	43	4	5	8	8	8	17		3 7 9 21 27
63	173	43	4	5	9	9	9	19		3 7 15 21
63	174	42	8	6	8	7	8	16		0 1 3 5 21
63	175	42	6	6	9	8	9	18		0 1 3 7 21
63	176	42	6	6	9	8	9	18		0 1 3 9 21 27
63	177	42	6	6	8	7	8	16		0 1 3 11 21

Table 1 (continued)

a	q	k	d	Bp	B	Bp	Ba	N	Comp	Roots
63	178	42	8	6	7	6	7	14		0 1 3 13 21
63	179	42	6	6	8	7	8	16		0 1 3 15 21
63	180	42	8	6	8	7	8	16		0 1 3 21 31
63	181	42	6	6	9	8	9	18		0 1 5 7 21
63	182	42	8	6	8	7	8	16		0 1 5 9 21 27
63	183	42	6	6	7	6	7	14		0 1 5 11 21
63	184	42	6	6	7	6	7	14		0 1 5 21 23
63	185	42	6	6	7	6	7	14		0 1 5 21 31
63	186	42	9	6	9	8	9	18		0 1 7 9 21 27
63	187	42	4	6	9	8	9	18		0 1 7 11 21
63	188	42	4	6	9	8	9	18		0 1 7 15 21
63	189	42	6	6	9	8	9	18		0 1 7 21 31
63	190	42	6	6	7	6	7	14		0 1 9 11 21 27
63	191	42	6	6	9	8	9	18		0 1 9 15 21 27
63	192	42	6	6	7	6	7	14		0 1 9 21 27 31
63	193	42	4	6	7	6	7	14		0 1 11 15 21
63	194	42	4	6	9	8	9	18	354	0 1 11 21 23
63	195	42	4	6	9	8	9	18		0 3 7 9 21 27
63	196	42	4	6	10	9	10	20		0 3 7 15 21
63	197	42	7	5	7	6	7	14		1 3 5 9
63	198	42	7	5	7	6	7	14		1 3 5 27
63	199	42	6	5	6*	6	6*	13		1 3 7 9
63	200	42	5	5	6*	6	7	13		1 3 7 27
63	201	42	6	5	6*	6	6*	13		1 3 9 11
63	202	42	6	5	6*	6	6*	13		1 3 9 13
63	203	42	6	5	7	6	7	14		1 3 9 15
63	204	42	7	5	7	6	7	14		1 3 9 31
63	205	42	5	5	7	6	7	14		1 3 11 27
63	206	42	5	5	6*	6	6*	13		1 3 13 27
63	207	42	6	5	6*	6	7	13		1 3 15 27
63	208	42	7	5	7	6	7	14		1 3 27 31
63	209	42	6	5	7	6	7	14		1 5 7 9
63	210	42	6	5	6*	6	6*	13		1 5 7 27
63	211	42	6	5	6*	6	6*	13		1 5 9 11
63	212	42	6	5	6*	6	6*	13		1 5 9 13
63	213	42	6	5	6*	6	6*	13		1 5 9 23
63	214	42	6	5	6*	6	6*	13		1 5 9 31
63	215	42	6	5	6*	6	6*	13		1 5 23 27
63	216	42	6	5	6*	6	6*	13		1 5 27 31
63	217	42	4	5	6*	6	6*	13		1 7 9 11
63	218	42	4	5	7	7	7	15		1 7 9 15
63	219	42	6	5	6*	6	6*	13		1 7 9 31
63	220	42	5	5	6*	6	6*	13		1 7 11 27
63	221	42	6	5	6*	6	6*	13		1 7 15 27
63	222	42	3	5	7	6	7	14		1 9 11 15
63	223	42	3	5	7	7	7	15		1 9 11 23
63	224	42	6	5	6*	6	6*	13		1 11 15 27
63	225	42	5	5	7	6	7	14		1 11 23 27
63	226	42	4	5	8	8	8	17		3 7 9 15
63	227	41	8	6	8	7	8	16		0 1 3 5 9
63	228	41	8	6	8	7	8	16		0 1 3 5 27
63	229	41	6	6	7	6*	7	14		0 1 3 7 9
63	230	41	6	6	7	6*	8	14		0 1 3 7 27
63	231	41	6	6	7	6*	7	14		0 1 3 9 11
63	232	41	6	6	7	6*	7	14		0 1 3 9 13
63	233	41	6	6	8	7	8	16		0 1 3 9 15
63	234	41	8	6	8	7	8	16		0 1 3 9 31
63	235	41	6	6	8	7	8	16		0 1 3 11 27
63	236	41	6	6	7	6*	7	14		0 1 3 13 27
63	237	41	6	6	8	7	8	16		0 1 3 15 27

Table 1 (continued)

n	θ	k	d	Sp	R	Rp	Rs	N Comp	Roots
63	238	41	8	6	8	7	8	16	0 1 3 27 31
63	239	41	6	6	8	7	8	16	0 1 5 7 9
63	240	41	6	6	9	8	9	18	0 1 5 7 27
63	241	41	6	6	7	6*	8	14	0 1 5 9 11
63	242	41	6	6	7	6*	7	14	0 1 5 9 13
63	243	41	6	6	8	7	8	16	0 1 5 9 23
63	244	41	6	6	7	6*	7	14	0 1 5 9 31
63	245	41	6	6	7	6*	7	14	0 1 5 23 27
63	246	41	6	6	7	6*	8	14	0 1 5 27 31
63	247	41	4	6	9	8	9	18	0 1 7 9 11
63	248	41	4	6	8	7	8	16	0 1 7 9 15
63	249	41	6	6	7	6*	7	14	0 1 7 9 31
63	250	41	6	6	7	6*	7	14	0 1 7 11 27
63	251	41	6	6	9	8	9	18	0 1 7 15 27
63	252	41	4	6	8	7	8	16	0 1 9 11 15
63	253	41	4	6	8	7	8	16	0 1 9 11 23
63	254	41	6	6	7	6*	7	14	0 1 11 15 27
63	255	41	6	6	8	7	8	16	0 1 11 23 27
63	256	41	4	6	9	8	9	18	0 3 7 9 15
63	257	40	7	6	7	6*	7*	14	1 3 5 9 21
63	258	40	8	6	7	7	8	15	1 3 5 21 27
63	259	40	8	6	8	7	8	16	1 3 7 9 21
63	260	40	8	6	7	7	8	15	1 3 7 21 27
63	261	40	6	6	7	7	7*	15	1 3 9 11 21
63	262	40	8	6	7	6*	7*	14	1 3 9 13 21
63	263	40	6	6	8	8	8	17	1 3 9 15 21
63	264	40	8	6	7	6*	7*	14	1 3 9 21 31
63	265	40	6	6	7	7	7*	15	1 3 11 21 27
63	266	40	8	6	7	6*	7*	14	1 3 13 21 27
63	267	40	6	6	8	8	8	17	1 3 15 21 27
63	268	40	8	6	7	6*	7*	14	1 3 21 27 31
63	269	40	8	6	7	7	8	15	1 5 7 9 21
63	270	40	8	6	7	7	8	15	1 5 7 21 27
63	271	40	8	6	7	6*	7*	14	1 5 9 11 21
63	272	40	8	6	7	6*	7*	14	1 5 9 13 21
63	273	40	8	6	7	6*	7*	14	1 5 9 21 23
63	274	40	7	6	7	7	7*	15	1 5 9 21 31
63	275	40	8	6	7	6*	7*	14	1 5 21 23 27
63	276	40	8	6	7	6*	7*	14	1 5 21 27 31
63	277	40	4	6	8	8	8	17	1 7 9 11 21
63	278	40	4	6	9	8	9	18	1 7 9 15 21
63	279	40	8	6	7	7	8	15	1 7 9 21 31
63	280	40	8	6	7	6*	7*	14	1 7 11 21 27
63	281	40	8	6	7	7	7*	15	1 7 15 21 27
63	282	40	4	6	7	7	7*	15	1 9 11 15 21
63	283	40	4	6	8	7	8	16	1 9 11 21 23
63	284	40	6	6	7	7	7*	15	1 11 15 21 27
63	285	40	6	6	8	7	8	16	1 11 21 23 27
63	286	40	4	6	10	9	10	20	3 7 9 15 21
63	287	39	8	7	8	7*	8	16	0 1 3 5 9 21
63	288	39	8	7	9	8	9	18	0 1 3 5 21 27
63	289	39	8	7	9	8	9	18	0 1 3 7 9 21
63	290	39	8	7	9	8	9	18	0 1 3 7 21 27
63	291	39	8	7	9	8	9	18	0 1 3 9 11 21
63	292	39	8	7	9	8	9	18	0 1 3 9 13 21
63	293	39	6	7	10	9	10	20	0 1 3 9 15 21
63	294	39	8	,	9	8	9	18	0 1 3 9 21 31
63	295	39	6	7	9	8	9	18	0 1 3 11 21 27
63	296	39	8	7	9	8	9	18	0 1 3 13 21 27
63	297	39	6	7	10	9	10	20	0 1 3 15 21 27

Table 1 (continued)

n	°	k	d	Sp	R	Rp	Rs	N	Comp	Roots
63	298	39	8	7	9	8	9	18		0 1 3 21 27 31
63	299	39	8	7	9	8	9	18		0 1 5 7 9 21
63	300	39	8	7	9	8	9	18		0 1 5 7 21 27
63	301	39	8	7	9	8	9	18		0 1 5 9 11 21
63	302	39	8	7	9	8	9	18		0 1 5 9 13 21
63	303	39	8	7	9	8	9	18		0 1 5 9 21 23
63	304	39	8	7	8	7*	8	16		0 1 5 9 21 31
63	305	39	8	7	9	8	9	18		0 1 5 21 23 27
63	306	39	8	7	9	8	9	18		0 1 5 21 27 31
63	307	39	4	7	9	8	9	18		0 1 7 9 11 21
63	308	39	4	7	10	9	10	20		0 1 7 9 15 21
63	309	39	8	7	9	8	9	18		0 1 7 9 21 31
63	310	39	8	7	9	8	9	18		0 1 7 11 21 27
63	311	39	8	7	9	8	9	18		0 1 7 15 21 27
63	312	39	4	7	9	8	9	18		0 1 9 11 15 21
63	313	39	4	7	9	8	9	18		0 1 9 11 21 23
63	314	39	6	7	9	8	9	18		0 1 11 15 21 27
63	315	39	6	7	9	8	9	18		0 1 11 21 23 27
63	316	39	4	7	11	10	11	22		0 3 7 9 15 21
63	317	39	9	6	7*	7*	8	15		1 3 5 7
63	318	39	7	6	8	7*	8	16		1 3 5 9 27
63	319	39	7	6	7*	7*	7*	15		1 3 5 11
63	320	39	7	6	7*	7*	7*	15		1 3 5 13
63	321	39	7	6	7*	7*	7*	15		1 3 5 15
63	322	39	7	6	7*	7*	7*	15		1 3 5 23
63	323	39	7	6	7*	7*	7*	15		1 3 5 31
63	324	39	6	6	8	7*	8	16		1 3 7 9 27
63	325	39	5	6	7*	7*	7*	15		1 3 7 11
63	326	39	6	6	7*	7*	7*	15		1 3 7 13
63	327	39	8	6	7*	7*	7*	15		1 3 7 15
63	328	39	8	6	7*	7*	7*	15		1 3 7 31
63	329	39	6	6	7*	7*	7*	15		1 3 9 11 27
63	330	39	6	6	7*	7*	7*	15		1 3 9 13 27
63	331	39	6	6	9	9	9	19		1 3 9 15 27
63	332	39	7	6	8	7*	8	16		1 3 9 27 31
63	333	39	7	6	7*	7*	7*	15		1 3 11 13
63	334	39	6	6	7*	7*	7*	15		1 3 11 15
63	335	39	5	6	7*	7*	8	15		1 3 11 23
63	336	39	7	6	7*	7*	7*	15		1 3 13 31
63	337	39	7	6	7*	7*	7*	15		1 3 15 31
63	338	39	6	6	8	7*	8	16		1 5 7 9 27
63	339	39	3	6	7*	7*	8	15		1 5 7 11
63	340	39	3	6	7*	7*	7*	15		1 5 7 23
63	341	39	3	6	7*	7*	7*	15		1 5 7 31
63	342	39	6	6	8	7*	8	16		1 5 9 11 27
63	343	39	6	6	8	7*	8	16		1 5 9 23 27
63	344	39	6	6	8	7*	8	16		1 5 9 27 31
63	345	39	3	6	7*	7*	7*	15		1 5 11 13
63	346	39	3	6	8	7*	8	16		1 5 11 23
63	347	39	3	6	7*	7*	8	15		1 5 23 31
63	348	39	16	6	7*	7*	7*	15		1 7 9 11 27
63	349	39	6	6	8	7*	8	16		1 7 9 15 27
63	350	39	6	6	8	7*	8	16		1 7 9 27 31
63	351	39	4	6	8	7*	8	16		1 7 11 15
63	352	39	3	6	9	9	10	19	3S5	1 7 11 23
63	353	39	6	6	8	7*	8	16		1 9 11 15 27
63	354	39	6	6	8	7*	8	16		1 9 11 23 27
63	355	39	3	6	7*	7*	8	15		1 11 15 23
63	356	39	4	6	9	9	9	19	3S6	3 7 9 15 27
63	357	38	10	7	9	8	9	18		0 1 3 5 7

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
63	359	38	8	7	9	8	9	18		0 1 3 5 9 27
63	359	38	8	7	8	7*	8	16		0 1 3 5 11
63	360	38	8	7	8	7*	8	16		0 1 3 5 13
63	361	38	8	7	8	7*	8	16		0 1 3 5 15
63	362	38	8	7	8	7*	8	16		0 1 3 5 23
63	363	38	10	7	8	7*	9	16		0 1 3 5 31
63	364	38	6	7	9	8	9	18		0 1 3 7 9 27
63	365	38	8	7	8	7*	8	16		0 1 3 7 11
63	366	38	6	7	8	7*	8	16		0 1 3 7 13
63	367	38	8	7	9	8	9	18		0 1 3 7 15
63	368	38	8	7	9	8	9	18		0 1 3 7 31
63	369	38	6	7	8	7*	8	16		0 1 3 9 11 27
63	370	38	6	7	9	8	9	18		0 1 3 9 13 27
63	371	38	6	7	10	9	10	20		0 1 3 9 15 27
63	372	38	8	7	9	8	9	18		0 1 3 9 27 31
63	373	38	8	7	8	7*	8	16		0 1 3 11 13
63	374	38	6	7	8	7*	8	16		0 1 3 11 15
63	375	38	6	7	8	7*	9	16		0 1 3 11 23
63	376	38	8	7	8	7*	8	16		0 1 3 13 31
63	377	38	10	7	8	7*	9	16		0 1 3 15 31
63	378	38	6	7	9	8	9	18		0 1 5 7 9 27
63	379	38	6	7	8	7*	9	16		0 1 5 7 11
63	380	38	6	7	8	7*	8	16		0 1 5 7 23
63	381	38	6	7	8	7*	8	16		0 1 5 7 31
63	382	38	6	7	9	8	9	18		0 1 5 9 11 27
63	383	38	6	7	9	8	9	18		0 1 5 9 23 27
63	384	38	6	7	9	8	9	18		0 1 5 9 27 31
63	385	38	6	7	8	7*	8	16		0 1 5 11 13
63	386	38	6	7	9	8	9	18		0 1 5 11 23
63	387	38	6	7	8	7*	9	16		0 1 5 23 31
63	388	38	6	7	9	8	9	18		0 1 7 9 11 27
63	389	38	6	7	9	8	9	18		0 1 7 9 15 27
63	390	38	6	7	9	8	9	18		0 1 7 9 27 31
63	391	38	4	7	9	8	9	18		0 1 7 11 15
63	392	38	4	7	10	9	11	20		0 1 7 11 23
63	393	38	6	7	10	9	10	20		0 1 9 11 15 27
63	394	38	6	7	9	8	9	18		0 1 9 11 23 27
63	395	38	4	7	8	7*	9	16		0 1 11 15 23
63	396	38	4	7	12	11	12	24		0 3 7 9 15 27
63	397	37	9	6	9	8	9	18		1 3 5 7 21
63	398	37	9	6	9	8	8	17		1 3 5 9 21 27
63	399	37	7	6	8	7*	8	16		1 3 5 11 21
63	400	37	7	6	8	8	8	17		1 3 5 13 21
63	401	37	9	6	9	8	9	18		1 3 5 15 21
63	402	37	7	6	8	7*	8	16		1 3 5 21 23
63	403	37	7	6	8	8	8	17		1 3 5 21 31
63	404	37	8	6	8	8	8	17		1 3 7 9 21 27
63	405	37	8	6	8	8	8	17		1 3 7 11 21
63	406	37	9	6	8	8	8	17		1 3 7 13 21
63	407	37	8	6	9	9	9	19		1 3 7 15 21
63	408	37	9	6	8	8	8	17		1 3 7 21 31
63	409	37	6	6	8	8	8	17		1 3 9 11 21 27
63	410	37	9	6	9	8	9	18		1 3 9 13 21 27
63	411	37	6	6	10	10	10	21		1 3 9 15 21 27
63	412	37	10	6	8	8	9	17		1 3 9 21 27 31
63	413	37	8	6	8	8	8	17		1 3 11 13 21
63	414	37	6	6	9	9	9	19		1 3 11 15 21
63	415	37	6	6	8	9	9	17		1 3 11 21 23
63	416	37	9	6	8	7*	8	16		1 3 13 21 31
63	417	37	7	6	9	9	9	18		1 3 15 21 31

Table 1 (continued)

n	e	k	d	Bp	R	Bp	Rs	N	Comp	Roots
63	418	37	8	6	8	8	8	17		1 5 7 9 21 27
63	419	37	6	6	8	8	8	17		1 5 7 11 21
63	420	37	6	6	8	8	8	17		1 5 7 21 23
63	421	37	6	6	8	8	8	17		1 5 7 21 31
63	422	37	8	6	8	8	8	17		1 5 9 11 21 27
63	423	37	8	6	9	8	9	18		1 5 9 21 23 27
63	424	37	9	6	9	8	9	18		1 5 9 21 27 31
63	425	37	6	6	8	8	8	17		1 5 11 13 21
63	426	37	6	6	8	8	9	17		1 5 11 21 23
63	427	37	6	6	8	8	8	17		1 5 21 23 31
63	428	37	8	6	8	8	9	17		1 7 9 11 21 27
63	429	37	8	6	9	8	9	18		1 7 9 15 21 27
63	430	37	8	6	8	8	9	17		1 7 9 21 27 31
63	431	37	4	6	9	8	9	18		1 7 11 15 21
63	432	37	4	6	10	10	11	21		1 7 11 21 23
63	433	37	6	6	8	8	8	17		1 9 11 15 21 27
63	434	37	6	6	9	8	9	18		1 9 11 21 23 27
63	435	37	4	6	8	8	9	17		1 11 15 21 23
63	436	37	4	6	13	12	13	26		3 7 9 15 21 27
63	437	36	10	7	10	9	11	20		0 1 3 5 7 21
63	438	36	8	7	11	10	11	22		0 1 3 5 9 21 27
63	439	36	10	7	9	8	9	18		0 1 3 5 11 21
63	440	36	10	7	9	8	9	18		0 1 3 5 13 21
63	441	36	8	7	10	9	10	20		0 1 3 5 15 21
63	442	36	10	7	9	8	9	18		0 1 3 5 21 23
63	443	36	10	7	10	9	10	20		0 1 3 5 21 31
63	444	36	8	7	11	10	11	22		0 1 3 7 9 21 27
63	445	36	8	7	9	8	10	18		0 1 3 7 11 21
63	446	36	10	7	9	8	9	18		0 1 3 7 13 21
63	447	36	8	7	10	9	10	20		0 1 3 7 15 21
63	448	36	10	7	9	8	9	18		0 1 3 7 21 31
63	449	36	6	7	11	10	11	22		0 1 3 9 11 21 27
63	450	36	8	7	10	9	10	20		0 1 3 9 13 21 27
63	451	36	6	7	21	20	21	42		0 1 3 9 15 21 27
63	452	36	10	7	11	10	11	22		0 1 3 9 21 27 31
63	453	36	8	7	9	8	9	18		0 1 3 11 13 21
63	454	36	6	7	10	9	10	20		0 1 3 11 15 21
63	455	36	6	7	10	9	10	20		0 1 3 11 21 23
63	456	36	10	7	9	8	9	18		0 1 3 13 21 31
63	457	36	10	7	10	9	10	20		0 1 3 15 21 31
63	458	36	8	7	10	9	10	20		0 1 5 7 9 21 27
63	459	36	6	7	9	8	10	18		0 1 5 7 11 21
63	460	36	6	7	9	8	10	18		0 1 5 7 21 23
63	461	36	6	7	9	8	9	18		0 1 5 7 21 31
63	462	36	8	7	9	8	9	18		0 1 5 9 11 21 27
63	463	36	8	7	11	10	11	22		0 1 5 9 21 23 27
63	464	36	10	7	10	9	10	20		0 1 5 9 21 27 31
63	465	36	6	7	9	8	9	18		0 1 5 11 13 21
63	466	36	6	7	9	8	10	18		0 1 5 11 21 23
63	467	36	6	7	9	8	9	18		0 1 5 21 23 31
63	468	36	8	7	9	8	10	18		0 1 7 9 11 21 27
63	469	36	8	7	11	10	11	22		0 1 7 9 15 21 27
63	470	36	8	7	10	9	10	20		0 1 7 9 21 27 31
63	471	36	4	7	11	10	11	22		0 1 7 11 15 21
63	472	36	4	7	12	11	13	24	357	0 1 7 11 21 23
63	473	36	6	7	10	9	10	20		0 1 9 11 15 21 27
63	474	36	6	7	10	9	10	20		0 1 9 11 21 23 27
63	475	36	4	7	10	9	10	20		0 1 11 15 21 23
63	476	36	4	7	21	20	21	42	358	0 3 7 9 15 21 27
63	477	36	11	7	9	8	10	18		1 3 5 7 9

Table 1 (continued)

n	#	h	d	Sp	R	Rp	Rs	N	Comp	Roots
63	478	36	9	7	9	8	9	18		1 3 5 7 27
63	479	36	7	7	8*	7*	8*	16		1 3 5 9 11
63	480	36	7	7	8*	7*	9	18		1 3 5 9 13
63	481	36	7	7	8*	8	9	17		1 3 5 9 15
63	482	36	7	7	8*	8	8*	17		1 3 5 9 23
63	483	36	7	7	8*	8	8*	17		1 3 5 9 31
63	484	36	7	7	8*	8	8*	17		1 3 5 11 27
63	485	36	7	7	8*	8	8*	17		1 3 5 13 27
63	486	36	7	7	9	8	9	18		1 3 5 15 27
63	487	36	7	7	8*	8	8*	17		1 3 5 23 27
63	488	36	7	7	8*	8	8*	17		1 3 5 27 31
63	489	36	8	7	8*	8	8*	17		1 3 7 9 11
63	490	36	6	7	8*	8	8*	17		1 3 7 9 13
63	491	36	8	7	9	8	9	18		1 3 7 9 15
63	492	36	9	7	8*	8	8*	17		1 3 7 9 31
63	493	36	5	7	9	8	9	18		1 3 7 11 27
63	494	36	6	7	9	8	9	18		1 3 7 13 27
63	495	36	8	7	9	8	9	18		1 3 7 15 27
63	496	36	9	7	8*	8	8*	17		1 3 7 27 31
63	497	36	7	7	8*	8	8*	17		1 3 9 11 13
63	498	36	6	7	9	8	9	18		1 3 9 11 15
63	499	36	6	7	8*	8	9	17		1 3 9 11 23
63	500	36	7	7	9	8	9	18		1 3 9 13 31
63	501	36	7	7	8*	8	8*	17		1 3 9 15 31
63	502	36	7	7	8*	8	8*	17		1 3 11 13 27
63	503	36	6	7	9	8	9	18		1 3 11 15 27
63	504	36	5	7	9	9	10	19	3S9	1 3 11 23 27
63	505	36	7	7	9	8	9	18		1 3 13 27 31
63	506	36	6	7	8*	8	8*	17		1 5 7 9 11
63	507	36	6	7	8*	8	8*	17		1 5 7 9 13
63	508	36	6	7	8*	8	8*	17		1 5 7 9 23
63	509	36	6	7	8*	8	8*	17		1 5 7 9 31
63	510	36	6	7	8*	8	8*	17		1 5 7 23 27
63	511	36	6	7	8*	8	8*	17		1 5 7 27 31
63	512	36	6	7	8*	8	8*	17		1 5 9 11 13
63	513	36	6	7	8*	8	9	17		1 5 9 11 23
63	514	36	6	7	8*	8	8*	17		1 5 9 11 31
63	515	36	6	7	8*	8	9	17		1 5 9 13 31
63	516	36	6	7	8*	8	8*	17		1 5 9 23 31
63	517	36	4	7	9	9	9	19		1 7 9 11 15
63	518	36	4	7	10	10	11	21		1 7 9 11 23
63	519	36	8	7	8*	8	8*	17		1 7 11 15 27
63	520	36	5	7	10	9	10	20		1 7 11 23 27
63	521	36	3	7	9	9	10	19	9S1	1 9 11 15 23
63	522	36	6	7	8*	8	9	17		1 11 15 23 27
63	523	35	12	8	11	10	11	22		0 1 3 5 7 9
63	524	35	10	8	10	9	10	20		0 1 3 5 7 27
63	525	35	8	8	9	8*	10	18		0 1 3 5 9 11
63	526	35	8	8	10	9	10	20		0 1 3 5 9 13
63	527	35	8	8	9	8*	10	18		0 1 3 5 9 15
63	528	35	8	8	9	8*	10	18		0 1 3 5 9 23
63	529	35	12	8	10	9	11	20		0 1 3 5 9 31
63	530	35	8	8	9	8*	9	18		0 1 3 5 11 27
63	531	35	8	8	10	9	10	20		0 1 3 5 13 27
63	532	35	8	8	10	9	10	20		0 1 3 5 15 27
63	533	35	8	8	9	8*	9	18		0 1 3 5 23 27
63	534	35	10	8	10	9	10	20		0 1 3 5 27 31
63	535	35	8	8	9	8*	9	18		0 1 3 7 9 11
63	536	35	6	8	11	10	11	22		0 1 3 7 9 13
63	537	35	8	8	10	9	10	20		0 1 3 7 9 15

Table 1 (continued)

n	#	k	d	Sp	R	Rp	Rs	N	Comp	Roots
63	530	35	10	8	9	8*	9	18		0 1 3 7 9 31
63	539	35	8	8	10	9	10	20		0 1 3 7 11 27
63	540	35	6	8	10	9	10	20		0 1 3 7 13 27
63	541	35	8	8	10	9	10	20		0 1 3 7 15 27
63	542	35	10	8	9	8*	9	18		0 1 3 7 27 31
63	543	35	8	8	9	8*	10	18		0 1 3 9 11 13
63	544	35	6	8	10	9	10	20		0 1 3 9 11 15
63	545	35	6	8	9	8*	10	18		0 1 3 9 11 23
63	546	35	8	8	10	9	10	20		0 1 3 9 13 31
63	547	35	10	8	10	9	10	20		0 1 3 9 15 31
63	548	35	8	8	9	8*	9	18		0 1 3 11 13 27
63	549	35	6	8	10	9	10	20		0 1 3 11 15 27
63	550	35	6	8	10	9	11	20		0 1 3 11 23 27
63	551	35	8	8	10	9	10	20		0 1 3 13 27 31
63	552	35	6	8	9	8*	9	18		0 1 5 7 9 11
63	553	35	6	8	9	8*	10	18		0 1 5 7 9 13
63	554	35	6	8	9	8*	11			0 1 5 7 9 23
63	555	35	6	8	10	9	10	20		0 1 5 7 9 31
63	556	35	6	8	9	8*	10	18		0 1 5 7 23 27
63	557	35	6	8	9	8*	9	18		0 1 5 7 27 31
63	558	35	6	8	9	8*	9	18		0 1 5 9 11 13
63	559	35	6	8	10	9	10	20		0 1 5 9 11 23
63	560	35	6	8	9	8*	9	18		0 1 5 9 11 31
63	561	35	6	8	9	8*	10	18		0 1 5 9 13 31
63	562	35	6	8	9	8*	9	18		0 1 5 9 23 31
63	563	35	4	8	10	9	10	20		0 1 7 9 11 15
63	564	35	4	8	12	11	12	24		0 1 7 9 11 23
63	565	35	8	8	9	8*	9	18		0 1 7 11 15 27
63	566	35	6	8	11	10	11	22		0 1 7 11 23 27
63	567	35	4	8	10	9	11	20		0 1 9 11 15 23
63	568	35	6	8	10	9	10	20		0 1 11 15 23 27

Table 1 (continued)

n	#	T	Coset weights
7	1	C	1 7
7	1	P	1 3
7	1	S	1 6 1
7	2	C	1 7 7 1
7	2	P	1 6 1
7	2	S	1 6 7 2
9	1	C	1 9 27 27
9	1	P	1 7 15 9
9	1	S	1 8 22 24 9
9	2	C	1 9 36 55 27
9	2	P	1 8 28 27
9	2	S	1 8 28 46 35 10
12	1	C	1 12 15 4
12	1	P	1 11 4
12	1	S	1 11 15 5
12	2	C	1 12 27 20 4
12	2	P	1 11 16 4
12	2	S	1 11 27 21 4
12	3	C	1 12 45 6
12	3	P	1 10 21
12	3	S	1 11 40 12
12	4	C	1 12 57 52 6
12	4	P	1 11 46 6
12	4	S	1 11 49 53 14
12	5	C	1 12 66 163 189 81
12	5	P	1 11 55 108 81
12	5	S	1 11 55 136 173 109 27
14	1	C	1 14 15 2
14	1	P	1 13 2
14	1	S	1 13 15 3
14	2	C	1 14 63 50
14	2	P	1 13 50
14	2	S	1 13 56 51 7
14	3	C	1 14 91 294 112
14	3	P	1 13 78 152 12
14	3	S	1 13 78 246 173 1
15	1	C	1 15
15	1	P	1 7
15	1	S	1 14 1
15	2	C	1 15 15 1
15	2	P	1 14 1
15	2	S	1 14 15 2
15	3	C	1 15 45 3
15	3	P	1 13 18
15	3	S	1 14 46 3
15	4	C	1 15 43 5
15	4	P	1 14 17
15	4	S	1 14 43 6
15	5	C	1 15 60 49 3
15	5	P	1 14 46 3
15	5	S	1 14 58 50 5
15	6	C	1 15 43 45 20 4
15	6	P	1 14 29 16 4
15	6	S	1 14 43 46 20 4
15	7	C	1 15 105 135
15	7	P	1 14 73 40
15	7	S	1 14 91 134 16
15	8	C	1 15 90 150

Table 2

n	#	T	Coset weights
15	8	P	1 13 63 51
15	8	S	1 14 79 150 12
15	9	C	1 15 105 225 150 16
15	9	P	1 14 91 134 16
15	9	S	1 14 91 212 164 30
15	10	C	1 15 105 241 150
15	10	P	1 14 91 150
15	10	S	1 14 91 229 164 13
15	11	C	1 15 105 455 420 28
15	11	P	1 14 91 294 112
15	11	S	1 14 91 364 511 42 1
15	12	C	1 15 90 270 405 243
15	12	P	1 13 66 162 189 81
15	12	S	1 14 79 228 351 270 81
15	13	C	1 15 105 455 875 553 43 1
15	13	P	1 14 91 364 511 42 1
15	13	S	1 14 91 364 763 630 169 16
15	14	C	1 15 105 361 675 648 243
15	14	P	1 14 91 270 405 243
15	14	S	1 14 91 307 581 622 351 81
15	15	C	1 15 105 425 1050 1500 1000
15	15	P	1 14 88 310 635 700 300
15	15	S	1 14 91 344 811 1190 1045 500 100
15	16	C	1 15 105 455 1365 2626 2625 1000
15	16	P	1 14 91 364 1001 1625 1000
15	16	S	1 14 91 364 1001 1876 2289 1716 714 126
17	1	C	1 17 136 102
17	1	P	1 16 90 21
17	1	S	1 16 120 118 1
17	2	C	1 17 136 238 119 1
17	2	P	1 16 120 118 1
17	2	S	1 16 120 238 135 2
18	1	C	1 18 73 110 54
18	1	P	1 17 56 54
18	1	S	1 17 73 111 54
18	2	C	1 18 129 348 522 6
18	2	P	1 17 112 236 146
18	2	S	1 17 117 337 530 22
18	3	C	1 18 153 676 1755 2673 2187 729
18	3	P	1 17 136 540 1215 1458 729
18	3	S	1 17 136 586 1502 2359 2214 1134 243
18	4	C	1 18 153 786 2655 5238 5346 2187
18	4	P	1 17 136 650 1883 2913 2106 486
18	4	S	1 17 136 660 2130 4320 5115 3195 810
20	1	C	1 20 43 40 20 4
20	1	P	1 19 24 16 4
20	1	S	1 19 43 41 20 4
20	2	C	1 20 76 100 51 8
20	2	P	1 19 57 43 8
20	2	S	1 19 76 101 51 8
20	3	C	1 20 175 840 2190 870
20	3	P	1 19 153 627 1140 108
20	3	S	1 19 159 743 1956 1194 24
20	4	C	1 20 175 880 2810 3076 1110 120
20	4	P	1 19 156 724 2086 990 120
20	4	S	1 19 159 773 2426 3148 1510 156
20	5	C	1 20 190 1140 4845 14751 30500 39625 30000 10000
20	5	P	1 19 171 969 3876 10875 19625 20000 10000

Table 2 (continued)

```
n   #  T  Coset weights
--  --- -  ------------------------------
20   5 S  1 19 171 969 3876 11251 23244 33171 31619 19126 6625 1000
21   1 C  1 21 10
21   1 P  1 14 1
21   1 S  1 20 11
21   2 C  1 21 31 11
21   2 P  1 20 11
21   2 S  1 20 31 12
21   3 C  1 21 42
21   3 P  1 16 15
21   3 S  1 20 43
21   4 C  1 21 63 43
21   4 P  1 20 43
21   4 S  1 20 63 44
21   5 C  1 21 147 87
21   5 P  1 19 87 21
21   5 S  1 20 136 97 2
21   6 C  1 21 87 147
21   6 P  1 20 67 40
21   6 S  1 20 87 148
21   7 C  1 21 168 235 87
21   7 P  1 20 148 87
21   7 S  1 20 154 234 101 2
21   8 C  1 21 87 147 140 84 28 4
21   8 P  1 20 67 80 60 24 4
21   8 S  1 20 87 148 140 84 28 4
21   9 C  1 21 210 280
21   9 P  1 20 175 60
21   9 S  1 20 190 300 1
21  10 C  1 21 147 343
21  10 P  1 17 91 147
21  10 S  1 20 134 308 49
21  11 C  1 21 210 490 301 1
21  11 P  1 20 190 300 1
21  11 S  1 20 190 460 321 32
21  12 C  1 21 168 491 343
21  12 P  1 20 148 343
21  12 S  1 20 154 443 357 49
21  13 C  1 21 210 1120 630 63 3
21  13 P  1 20 175 720 105 3
21  13 S  1 20 190 980 791 63 3
21  14 C  1 21 168 640 1218
21  14 P  1 20 148 492 363
21  14 S  1 20 154 578 1132 163
21  15 C  1 21 210 1330 1771 694 66 3
21  15 P  1 20 190 1140 631 63 3
21  15 S  1 20 190 1140 1771 884 86 4
21  16 C  1 21 168 640 1218 1218 640 168 21 1
21  16 P  1 20 148 492 726 492 148 20 1
21  16 S  1 20 154 578 1132 1218 726 230 35 2
21  17 C  1 21 210 1127 2289 448
21  17 P  1 20 190 819 994 24
21  17 S  1 20 190 994 2165 726
21  18 C  1 21 189 945 2310 630
21  18 P  1 19 153 665 1120 90
21  18 S  1 20 172 828 2085 990
21  19 C  1 21 210 1127 2947 2884 938 64
21  19 P  1 20 190 937 2010 874 64
21  19 S  1 20 190 994 2711 3012 1194 70
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Table 2 (continued)

n	#	T	Coset weights
21	20	C	1 21 210 1135 3255 2940 630
21	20	P	1 20 190 945 2310 630
21	20	S	1 20 190 1000 2915 3076 990
21	21	C	1 21 210 1330 5278 8260 1284
21	21	P	1 20 190 1140 3583 3132 126
21	21	S	1 20 190 1140 4402 7924 2630 68 1
21	22	C	1 21 189 945 2835 5103 5103 2187
21	22	P	1 19 153 675 1755 2673 2187 729
21	22	S	1 20 172 828 2430 4428 4860 2916 729
21	23	C	1 21 210 1330 5278 11830 10678 3195 217 8
21	23	P	1 20 190 1140 4138 7692 2986 209 8
21	23	S	1 20 190 1140 4402 10268 11274 4932 517 24
21	24	C	1 21 210 1135 3780 7938 10206 7290 2187
21	24	P	1 20 190 945 2835 5103 5103 2187
21	24	S	1 20 190 1000 3260 6859 9280 7776 3645 729
21	25	C	1 21 210 1330 5880 15456 9870
21	25	P	1 20 190 1130 4515 8446 2082
21	25	S	1 20 190 1140 4775 12722 12618 1302
21	26	C	1 21 210 1330 5985 17745 25396 13672 1176
21	26	P	1 20 190 1140 4845 12900 12496 1176
21	26	S	1 20 190 1140 4845 14130 23428 17414 4304 64
21	27	C	1 21 210 1330 5985 19467 40635 43011 20412
21	27	P	1 20 190 1140 4740 13572 22788 17982 5103
21	27	S	1 20 190 1140 4845 15000 31717 40520 28054 8856 729
21	28	C	1 21 210 1330 5985 20349 51037 83289 71652 26083 2187
21	28	P	1 20 190 1140 4845 15504 35533 47756 23096 2187
21	28	S	1 20 190 1140 4845 15504 37375 64292 72286 48116 16375 2000
21	29	C	1 21 210 1330 5880 18816 43806 72030 77175 42875
21	29	P	1 20 190 1130 4620 13426 27650 38710 33075 12250
21	29	S	1 20 190 1140 4775 14552 32740 54040 64015 52500 28126 8820 1225
21	30	C	1 21 210 1330 5985 20349 54264 111133 158809 129311 42875
21	30	P	1 20 190 1140 4845 15504 38760 72373 86436 42875
21	30	S	1 20 190 1140 4845 15504 38760 75804 112671 122200 92378 45760 13299 1716
23	1	C	1 23 253 1771
23	1	P	1 22 231 770
23	1	S	1 22 231 1540 231 22 1
23	2	C	1 23 253 1771 1771 253 23 1
23	2	P	1 22 231 1540 231 22 1
23	2	S	1 22 231 1540 1771 484 45 2
24	1	C	1 24 55 40 8
24	1	P	1 23 32 8
24	1	S	1 23 55 41 8
24	2	C	1 24 91 104 36
24	2	P	1 23 68 36
24	2	S	1 23 91 105 36
24	3	C	1 24 115 232 140
24	3	P	1 23 92 140
24	3	S	1 23 115 233 140
24	4	C	1 24 101 176 146 56 8
24	4	P	1 23 78 98 48 8
24	4	S	1 23 101 177 146 56 8
24	5	C	1 24 115 232 280 224 112 32 4
24	5	P	1 23 92 140 140 84 28 4
24	5	S	1 23 115 233 280 224 112 32 4
24	6	C	1 24 207 444 342 6
24	6	P	1 22 147 228 114
24	6	S	1 23 194 446 350 10

Table 2 (continued)

n	θ	T	Coset weights

24	7	C	1 24 190 688 784 312 41
24	7	P	1 23 175 513 271 41
24	7	S	1 23 186 662 788 339 49
24	8	C	1 24 133 440 782 560 108
24	8	P	1 23 110 330 452 108
24	8	S	1 23 133 441 782 560 108
24	9	C	1 24 231 652 786 348 6
24	9	P	1 23 208 444 342 6
24	9	S	1 23 215 641 790 360 10
24	10	C	1 24 206 824 1574 1200 267
24	10	P	1 23 183 641 933 267
24	10	S	1 23 194 794 1562 1230 291 1
24	11	C	1 24 231 800 1410 1224 406
24	11	P	1 23 208 592 810 406
24	11	S	1 23 215 781 1418 1244 414
24	12	C	1 24 244 1376 3113 2696 738
24	12	P	1 23 221 1155 1958 738
24	12	S	1 23 226 1248 3005 2819 864 6
24	13	C	1 24 231 880 2010 3192 1854
24	13	P	1 23 208 672 1338 1854
24	13	S	1 23 215 857 2010 3212 1870 4
24	14	C	1 24 258 1327 3261 2709 576 36
24	14	P	1 23 235 1092 2169 540 36
24	14	S	1 23 238 1211 3005 2790 852 72
24	15	C	1 24 244 1376 4093 5896 3790 896 64
24	15	P	1 23 221 1155 2938 2958 832 64
24	15	S	1 23 226 1248 3805 5857 4096 1064 64
24	16	C	1 24 252 1512 5565 8400 630
24	16	P	1 22 210 1134 3535 3290
24	16	S	1 23 232 1344 4844 8260 1680
24	17	C	1 24 258 1552 5589 12120 10311 2688 225
24	17	P	1 23 235 1317 4272 7848 2463 225
24	17	S	1 23 238 1396 5013 11247 10751 3718 381
24	18	C	1 24 276 1765 7077 13965 9030 630
24	18	P	1 23 253 1512 5565 8400 630
24	18	S	1 23 253 1576 6190 13105 9940 1680
24	19	C	1 24 276 1910 8541 22722 23641 8112 309
24	19	P	1 23 253 1657 6884 15839 7803 309
24	19	S	1 23 253 1685 7347 19955 24381 11103 786 2
24	20	C	1 24 276 1984 9741 32712 52602 30816 2916
24	20	P	1 23 253 1731 8010 24702 27900 2916
24	20	S	1 23 253 1741 8230 27138 49294 36610 7758 24
24	21	C	1 24 276 1765 7182 19279 34020 37908 24057 6561
24	21	P	1 23 253 1512 5670 13608 20412 17496 6561
24	21	S	1 23 253 1576 6260 16633 29862 35640 26973 11664 2187
24	22	C	1 24 276 1984 9846 35280 87753 143208 144585 81648 19683
24	22	P	1 23 253 1731 8115 27165 60588 82620 61965 19683
24	22	S	1 23 253 1741 8300 28786 71607 123135 140673 101169 41310 7290
25	1	C	1 25 300 2250 11625 43125 116250 225000 300000 250000 100000
25	1	P	1 24 273 1920 9195 31200 75675 129000 147000 100000 30000
25	1	S	1 24 276 1984 9846 35280 92940 180000 252225 247000 159000 60000 10000
25	2	C	1 25 300 2300 12650 51876 157500 344375 528125 550000 350000 100000
25	2	P	1 24 276 2024 10626 41250 116250 228125 300000 250000 100000
25	2	S	1 24 276 2024 10626 41751 123324 270651 435349 504501 409000 219625 70000 10000
27	1	C	1 27 324 2268 10206 30618 61236 78732 59049 19683
27	1	P	1 25 276 1764 7182 19279 34020 37908 24057 6561

Table 2 (continued)

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 n   #  T  Coset weights
--  ---- - ------------------------------
27   1 S  1 26  301 2040 8946 26460 53290 71920 61965 30618 6561
27   2 C  1 27  351 2593 12474 40824 91854 139968 137781 78732 19683
27   2 P  1 26  325 2260 10206 30618 61236 78732 59049 19683
27   2 S  1 26  325 2341 10908 35407 79758 125226 133893 92583 37179 6561
27   3 C  1 27  351 2838 15687 59211 152523 264627 297432 196830 59049
27   3 P  1 26  325 2513 12911 44067 99945 147907 135594 67797 13122
27   3 S  1 26  325 2532 13551 50373 130170 232488 281097 219186 99144 19683
27   4 C  1 27  351 2838 15687 61695 175044 356913 514053 506818 323757 120285
                19683
27   4 P  1 26  325 2513 13174 48521 126523 230390 283663 223155 100602 19683
27   4 S  1 26  325 2532 13551 52068 146460 302910 457617 496576 375407 187174
                55215 7290
27   5 C  1 27  351 2925 17550 80352 288954 825552 1871100 3307500 4381776
                4000752 2000376
27   5 P  1 26  325 2600 14915 64842 219387 582960 1209600 1913940 2194416
                1629936 555660
27   5 S  1 26  325 2600 14950 65528 225778 620600 1366825 2400450 3316953
                3532128 2817900 1619100 630000 148176 15876
27   6 C  1 27  351 2925 17550 80730 296010 888030 2220075 4613896 7649397
                9191232 6593832 2000376
27   6 P  1 26  325 2600 14950 65780 230230 657800 1562275 3051621 4597776
                4593456 2000376
27   6 S  1 26  325 2600 14950 65780 230230 657800 1562275 3100240 5073497
                6663592 6797960 5200300 2859740 1062568 238238 24310
28   1 C  1 28  31 4
28   1 P  1 27  4
28   1 S  1 27  31 5
28   2 C  1 28  55 36 8
28   2 P  1 27  28 8
28   2 S  1 27  55 37 8
28   3 C  1 28  127 200 126 28 2
28   3 P  1 27  100 100 26 2
28   3 S  1 27  127 201 126 28 2
28   4 C  1 28  87 140 140 84 28 4
28   4 P  1 27  60 80 60 24 4
28   4 S  1 27  87 141 140 84 28 4
28   5 C  1 28  273 210
28   5 P  1 24  171 60
28   5 S  1 27  256 228
28   6 C  1 28  153 308 302 168 56 9
28   6 P  1 27  126 182 120 48 8
28   6 S  1 27  153 309 302 168 56 8
28   7 C  1 28  301 484 210
28   7 P  1 27  274 210
28   7 S  1 27  283 485 228
28   8 C  1 28  301 884 714 112 8
28   8 P  1 27  274 610 104 8
28   8 S  1 27  283 885 732 112 8
28   9 C  1 28  301 1432 1701 588 45
28   9 P  1 27  274 1158 543 45
28   9 S  1 27  283 1340 1719 681 45
28  10 C  1 28  183 728 1526 1260 338 32
28  10 P  1 27  156 572 954 306 32
28  10 S  1 27  183 729 1526 1260 339 32
28  11 C  1 28  357 2156 1386 168
28  11 P  1 27  330 1378 312
28  11 S  1 27  333 1965 1602 168
28  12 C  1 28  322 1964 3473 2104 300
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Table 2 (continued)

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 n    #  T  Coset weights
 --  ---- -  ---------------------------------------
 28   12  P  1 27 295 1669 1804 300
 28   12  S  1 27 301 1797 3413 2272 301
 28   13  C  1 28 282 1344 3018 2660 795 64
 28   13  P  1 27 255 1089 1929 731 64
 28   13  S  1 27 268 1302 2994 2700 833 67
 28   14  C  1 28 322 1667 3773 2401
 28   14  P  1 27 295 1372 2401
 28   14  S  1 27 301 1521 3451 2540 343
 28   15  C  1 28 357 2156 3290 1840 448 64
 28   15  P  1 27 330 1826 1464 384 64
 28   15  S  1 27 333 1965 3250 2040 512 64
 28   16  C  1 28 357 2436 6146 5600 1608 128
 28   16  P  1 27 330 2106 4040 1560 128
 28   16  S  1 27 333 2233 6042 5804 1816 128
 28   17  C  1 28 322 1964 6895 14392 9166
 28   17  P  1 27 295 1669 5226 9166
 28   17  S  1 27 301 1797 6276 13342 9806 1218
 28   18  C  1 28 357 2744 10787 13356 5239 256
 28   18  P  1 27 330 2414 8373 4983 256
 28   18  S  1 27 333 2487 9715 13401 6335 469
 28   19  C  1 28 378 2877 10885 16807 1792
 28   19  P  1 27 351 2354 6957 6646 48
 28   19  S  1 27 351 2610 10005 16139 3635
 28   20  C  1 28 357 2436 7462 12264 10192 28
 28   20  P  1 27 330 2042 4944 6144 2896
 28   20  S  1 27 333 2233 7230 12388 10480 76
 28   21  C  1 28 378 3276 14631 27608 17646 1852 112 4
 28   21  P  1 27 351 2925 11706 15902 1744 108 4
 28   21  S  1 27 351 2925 13319 27533 18985 2279 112 4
 28   22  C  1 28 378 2877 12138 25459 20251 4404
 28   22  P  1 27 351 2526 9612 15847 4404
 28   22  S  1 27 351 2610 11098 24209 21294 5922 24
 28   23  C  1 28 357 2436 7966 16408 24416 13896 28
 28   23  P  1 27 330 2106 5860 10548 13868 28
 28   23  S  1 27 333 2233 7670 16372 24640 14136 124
 28   24  C  1 28 378 3136 16310 45472 48413 16900 434
 28   24  P  1 27 351 2785 13525 31947 16466 434
 28   24  S  1 27 351 2815 14418 41484 49819 21204 947 6
 28   25  C  1 28 378 3276 19068 72436 108874 55332 2751
 28   25  P  1 27 351 2925 16143 56293 52581 2751
 28   25  S  1 27 351 2925 16537 62491 106895 65598 7288 31
 28   26  C  1 28 357 2744 14049 49140 112245 78540 5040
 28   26  P  1 27 330 2404 11385 35055 62610 18900 360
 28   26  S  1 27 333 2487 12468 43278 100620 91410 11520
 28   27  C  1 28 378 3276 19068 72436 162238 169656 77847 16524 2604 224 8
 28   27  P  1 27 351 2925 16143 56293 105945 63711 14136 2388 216 8
 28   27  S  1 27 351 2925 16537 62491 144641 172620 96442 23681 4156 400 16
 28   28  C  1 28 378 3136 17241 64092 158284 180531 86240 14357
 28   28  P  1 27 351 2785 14456 49636 109648 71883 14357
 28   28  S  1 27 351 2815 15089 55545 139673 181406 106876 22351 154
 28   29  C  1 28 357 2744 14189 52164 140497 183688 106470 23520 630
 28   29  P  1 27 330 2414 11775 40389 100108 83580 22890 630
 28   29  S  1 27 333 2487 12573 45567 122313 181423 124854 32640 2070
 28   30  C  1 28 378 3276 20335 95256 342314 825594 751212 58758
 28   30  P  1 27 351 2915 17220 76146 249550 472392 226638 3336
 28   30  S  1 27 351 2925 17445 78567 272931 672867 830368 219558 2112
 28   31  C  1 28 378 3276 20475 98280 373506 1045920 1596280 949648 106512
 28   31  P  1 27 351 2925 17550 80730 292776 753144 843136 106512
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Table 2 (continued)

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 n    #   T   Coset weights
--   ---  -   ------------------------------
28   31  S   1  27  351  2925  17550  80730  294162  816406  1436981  1187295  340107  9769
28   32  C   1  28  378  3276  20475  98280  376740  1173747  2947399  5763429  8330090
                 8237031  5102125  1500625
28   32  P   1  27  351  2925  17550  30730  296010  877737  2069662  3693767  4636331
                 3601500  1500625
28   32  S   1  27  351  2925  17550  8C730  296010  882803  2144512  4176915  6365575
                 7386023  6332542  3861152  1577800  386561  42875
30    1  C   1  30  31  2
30    1  P   1  29  2
30    1  S   1  29  31  3
30    2  C   1  30  121  98  6
30    2  P   1  29  92  6
30    2  S   1  29  121  99  6
30    3  C   1  30  87  90  40  8
30    3  P   1  29  58  32  8
30    3  S   1  29  87  91  40  8
30    4  C   1  30  198  27
30    4  P   1  28  98  1
30    4  S   1  29  197  29
30    5  C   1  30  175  50
30    5  P   1  29  98
30    5  S   1  29  175  51
30    6  C   1  30  255  226
30    6  P   1  29  226
30    6  S   1  29  240  227  15
30    7  C   1  30  228  226  27
30    7  P   1  29  199  27
30    7  S   1  29  224  227  31
30    8  C   1  30  175  210  80  16
30    8  P   1  29  146  64  16
30    8  S   1  29  175  211  80  16
30    9  C   1  30  211  450  300  32
30    9  P   1  29  182  268  32
30    9  S   1  29  211  451  300  32
30   10  C   1  30  228  386  267  96  16
30   10  P   1  29  199  187  80  16
30   10  S   1  29  224  387  271  96  16
30   11  C   1  30  211  482  300
30   11  P   1  29  182  300
30   11  S   1  29  211  483  300
30   12  C   1  30  175  360  320  122  16
30   12  P   1  29  146  214  106  16
30   12  S   1  29  175  361  320  122  16
30   13  C   1  30  315  678
30   13  P   1  28  250  225
30   13  S   1  29  301  693
30   14  C   1  30  183  410  400
30   14  P   1  29  142  220  120
30   14  S   1  29  183  411  400
30   15  C   1  30  345  994  678
30   15  P   1  29  316  678
30   15  S   1  29  328  995  695
30   16  C   1  30  183  490  840  504
30   16  P   1  29  154  336  504
30   16  S   1  29  183  491  840  504
30   17  C   1  30  345  1898  1698  120  4
30   17  P   1  29  316  1582  116  4
30   17  S   1  29  328  1809  1711  210  8
```

Table 2 (continued)

n	#	?	Coset weights
30	18	C	1 30 211 910 1750 1106 86 2
30	18	P	1 29 182 728 1022 84 2
30	18	S	1 29 211 911 1750 1106 86 2
30	19	C	1 30 211 722 1350 1296 486
30	19	P	1 29 182 540 810 486
30	19	S	1 29 211 723 1350 1296 486
30	20	C	1 30 183 490 840 1008 840 480 180 40 4
30	20	P	1 29 154 336 504 504 336 144 36 4
30	20	S	1 29 183 491 840 1008 840 480 180 40 4
30	21	C	1 30 435 2550 1080
30	21	P	1 29 388 1426 204
30	21	S	1 29 406 2406 1254
30	22	C	1 30 405 2445 1215
30	22	P	1 28 348 1439 232
30	22	S	1 29 379 2298 1389
30	23	C	1 30 395 1710 1960
30	23	P	1 29 348 1094 576
30	23	S	1 29 371 1659 2036
30	24	C	1 30 363 1790 1800 112
30	24	P	1 29 334 1191 493
30	24	S	1 29 343 1751 1858 114
30	25	C	1 30 333 1080 1650 996 6
30	25	P	1 28 255 660 774 330
30	25	S	1 29 316 1074 1658 1008 10
30	26	C	1 30 435 2730 3660 1336
30	26	P	1 29 406 2324 1336
30	26	S	1 29 406 2574 3689 1493
30	27	C	1 30 345 1672 3471 2385 279 9
30	27	P	1 29 316 1356 2115 270 9
30	27	S	1 29 328 1628 3485 2430 282 9
30	28	C	1 30 435 2851 3660 1215
30	28	P	1 29 406 2445 1215
30	28	S	1 29 406 2677 3689 1390
30	29	C	1 30 395 1890 3700 2176
30	29	P	1 29 366 1524 2176
30	29	S	1 29 371 1827 3724 2240
30	30	C	1 30 363 1790 3560 2272 172 4
30	30	P	1 29 334 1456 2104 168 4
30	30	S	1 29 343 1751 3568 2312 184 4
30	31	C	1 30 363 1414 2730 2646 1002 6
30	31	P	1 29 334 1080 1650 996 6
30	31	S	1 29 343 1391 2734 2666 1018 10
30	32	C	1 30 311 1380 3239 2652 545 34
30	32	P	1 29 282 1098 2141 511 34
30	32	S	1 29 296 1338 3209 2690 590 39
30	33	C	1 30 435 3600 7305 4562 451
30	33	P	1 29 406 3194 4111 451
30	33	S	1 29 406 3272 7241 4891 544
30	34	C	1 30 435 3632 7740 4530 16
30	34	P	1 29 406 3226 4514 16
30	34	S	1 29 406 3305 7706 4858 79
30	35	C	1 30 395 1890 3700 4192 3360 1920 720 160 16
30	35	P	1 29 366 1524 2176 2016 1344 576 144 16
30	35	S	1 29 371 1827 3724 4256 3360 1920 720 160 16
30	36	C	1 30 363 2320 6383 5834 1445 8
30	36	P	1 29 334 1986 4397 1437 8
30	36	S	1 29 343 2179 6211 5970 1637 14
30	37	C	1 30 211 910 2730 5252 5250 2000

Table 2 (continued)

n	#	T	Coset weights
30	37	P	1 29 182 728 2002 3250 2000
30	37	S	1 29 211 911 2730 5252 5250 2000
30	38	C	1 30 363 1928 4863 5856 2965 378
30	38	P	1 29 334 1594 3269 2587 378
30	38	S	1 29 343 1847 4771 5878 3077 438
30	39	C	1 30 435 3710 8400 3808
30	39	P	1 29 406 2856 4564 336
30	39	S	1 29 406 3374 8765 3809
30	40	C	1 30 405 2940 7560 5088 360
30	40	P	1 28 351 2148 3912 1728 24
30	40	S	1 29 379 2703 7328 5392 552
30	41	C	1 30 395 3010 9755 3193
30	41	P	1 29 366 2472 4979 345
30	41	S	1 29 371 2767 9343 3073
30	42	C	1 30 435 3710 11900 12628 4048 16
30	42	P	1 29 406 3304 8596 4032 16
30	42	S	1 29 406 3374 11817 12965 4160 16
30	43	C	1 30 435 3346 10500 12648 5448 360
30	43	P	1 29 406 2940 7560 5088 360
30	43	S	1 29 406 3082 10033 12721 5944 552
30	44	C	1 30 395 3010 11565 13208 4423 136
30	44	P	1 29 366 2644 8921 4287 136
30	44	S	1 29 371 2767 10861 13428 5151 160
30	45	C	1 30 435 4060 16955 28646 15377 32
30	45	P	1 29 406 3654 13301 15345 32
30	45	S	1 29 406 3654 16003 28911 16358 174
30	46	C	1 30 435 3872 16605 28146 15727 720
30	46	P	1 29 406 3466 13139 15007 720
30	46	S	1 29 406 3503 15338 27300 17023 1936
30	47	C	1 30 395 3010 11565 20416 17863 8672 2880 640 64
30	47	P	1 29 366 2644 8921 11495 6368 2304 576 64
30	47	S	1 29 371 2767 10861 20164 18591 9168 2880 640 64
30	48	C	1 30 435 4010 21810 37576 1674
30	48	P	1 29 406 3468 16258 12492 114
30	48	S	1 29 406 3614 19511 38573 3399 3
30	49	C	1 30 435 3650 16620 27600 17200
30	49	P	1 29 403 3079 11228 12920 5108
30	49	S	1 29 406 3324 15152 28044 18292 288
30	50	C	1 30 405 3240 16485 34836 10539
30	50	P	1 28 351 2592 11389 16223 2184
30	50	S	1 29 379 2943 14681 33673 13782 48
30	51	C	1 30 435 4060 23498 36046 1466
30	51	P	1 29 406 3584 16887 11836 25
30	51	S	1 29 406 3654 20829 37599 3018
30	52	C	1 30 395 2950 13240 26770 20110 2040
30	52	P	1 29 363 2479 9366 13894 6588 48
30	52	S	1 29 371 2717 12138 26090 21430 2760
30	53	C	1 30 363 1790 5490 12066 20050 25746
30	53	P	1 29 334 1456 4034 8032 12018 6864
30	53	S	1 29 343 1751 5470 12086 20086 25766 4
30	54	C	1 30 435 3600 18075 43456 47025 18450
30	54	P	1 29 406 3194 14881 28575 18450
30	54	S	1 29 406 3272 16199 40110 46770 22125 2160
30	55	C	1 30 435 4010 23615 57346 41485 4150
30	55	P	1 29 406 3604 20011 37335 4150
30	55	S	1 29 406 3614 20916 55030 44207 6863 6
30	56	C	1 30 435 3710 18900 43996 46200 17800
30	56	P	1 29 406 3304 15596 28400 17800

Table 2 (continued)

n	#	T	Coset weights											
30	56	S	1	29	406	3374	17025	42621	47816	19512	288			
30	57	C	1	30	435	3646	19725	51321	45375	10539				
30	57	P	1	29	406	3240	16485	34836	10539					
30	57	S	1	29	406	3322	17626	48355	47455	13830	48			
30	58	C	1	30	435	3406	15600	39600	49500	22500				
30	58	P	1	29	406	3000	12600	27000	22500					
30	58	S	1	29	406	3124	14219	37003	49110	25380	1800			
30	59	C	1	30	435	4060	24408	57991	40692	3455				
30	59	P	1	29	406	3654	20754	37237	3455					
30	59	S	1	29	406	3654	21536	55825	43593	6028				
30	60	C	1	30	395	3010	14770	38186	47970	24310	2400			
30	60	P	1	29	366	2644	12126	26060	21910	2400				
30	60	S	1	29	371	2767	13418	36198	48410	26542	3336			
30	61	C	1	30	435	4060	24890	92696	104376	34280	1370	6		
30	61	P	1	29	406	3654	21236	71460	32916	1364	6			
30	61	S	1	29	406	3654	21896	82668	106896	44712	1873	9		
30	62	C	1	30	435	4060	23955	80822	105241	46160	1440			
30	62	P	1	29	406	3654	20301	60521	44720	1440				
30	62	S	1	29	406	3654	21211	72727	105070	54662	3584			
30	63	C	1	30	435	3872	22680	77466	104476	49668	3480	36		
30	63	P	1	29	406	3466	19214	58252	46224	3444	36			
30	63	S	1	29	406	3503	20085	69920	104607	57564	5973	56		
30	64	C	1	30	435	4060	24408	74256	93392	50166	12580	2560	256	
30	64	P	1	29	406	3654	20754	53502	39890	10276	2304	256		
30	64	S	1	29	406	3654	21536	68256	94873	56565	14000	2568	256	
30	65	C	1	30	395	3010	14770	45672	82410	77240	33240	5120	256	
30	65	P	1	29	366	2644	12126	33546	48864	28376	4864	256		
30	65	S	1	29	371	2767	13418	42050	79322	79890	37704	6336	256	
30	66	C	1	30	435	4060	25515	96728	111950	23250	175			
30	66	P	1	29	406	3584	20867	60285	42035	3865				
30	66	S	1	29	406	3654	22316	85407	116661	32985	680	5		
30	67	C	1	30	435	3710	18900	49308	83440	105360	960			
30	67	P	1	29	406	3304	15596	33712	49728	28240	56			
30	67	S	1	29	406	3374	17025	47405	84000	107152	2752			
30	68	C	1	30	405	3240	17010	60858	126000	54600				
30	68	P	1	28	351	2592	12474	39816	63210	12600				
30	68	S	1	29	379	2943	15066	53046	114660	76020				
30	69	C	1	30	395	3010	14770	43138	81850	109470	9120	360		
30	69	P	1	29	366	2644	12126	31012	50838	32544	1488	24		
30	69	S	1	29	371	2767	13418	40358	79602	109878	15204	516		
30	70	C	1	30	435	4060	26425	111428	211858	146451	23425	175		
30	70	P	1	29	406	3654	22771	88657	123201	23250	175			
30	70	S	1	29	406	3654	23023	96670	201714	161001	36995	790	5	
30	71	C	1	30	435	3646	20250	77868	186858	180600	54600			
30	71	P	1	29	406	3240	17010	60858	126000	54600				
30	71	S	1	29	406	3322	18011	68113	167706	190680	76020			
30	72	C	1	30	435	4060	26425	122906	318598	370182	177350	27100	1479	10
30	72	P	1	29	406	3654	22771	100135	218463	151719	25631	1469	10	
30	72	S	1	29	406	3654	23023	104503	284466	372555	213309	43518	3083	29
30	73	C	1	30	435	3872	23205	97356	272644	401250	228003	21780		
30	73	P	1	29	406	3466	19739	77617	195027	206223	21780			
30	73	S	1	29	406	3503	20470	84521	239645	388623	263766	47612		
30	74	C	1	30	435	4000	25875	121860	369635	450560	76180			
30	74	P	1	29	403	3525	21525	92397	227766	169142	9500			
30	74	S	1	29	406	3604	22526	103090	316590	460792	140430	1108		
30	75	C	1	30	435	4010	25605	111516	307783	483516	115680			
30	75	P	1	29	406	3604	22001	89515	218268	173536	16928			
30	75	S	1	29	406	3614	22386	96238	271103	466943	185720	2136		

Table 2 (continued)

n	#	T	Coset weights
30	76	C	1 30 435 3950 24600 108120 321400 473400 114840 1800
30	76	P	1 29 403 3475 20210 80500 205530 199740 14400
30	76	S	1 29 406 3564 21546 92700 275850 456480 193080 4920
30	77	C	1 30 435 4060 26383 115006 315645 485256 100320 1440
30	77	P	1 29 406 3654 22729 92277 223368 167104 14624 96
30	77	S	1 29 406 3654 22999 99235 278290 472050 169200 2704
30	78	C	1 30 435 4060 26425 122906 407451 695396 589960 225400 24304 784
30	78	P	1 29 406 3654 22771 100135 307316 388080 201880 23520 784
30	78	S	1 29 406 3654 23023 104503 342764 661601 648355 277165 33999 1624 28
30	79	C	1 30 435 4060 27405 138736 480705 826845 540030 78905
30	79	P	1 29 406 3654 23751 114985 365720 461125 78905
30	79	S	1 29 406 3654 23751 116241 402924 776743 620070 151909 1424
30	80	C	1 30 435 4010 26130 124996 418650 794800 601560 124740 1800
30	80	P	1 29 406 3604 22526 102470 316180 478620 122940 1800
30	80	S	1 29 406 3614 22771 105977 353978 725056 665660 213900 5760
30	81	C	1 30 435 3646 20250 78246 214326 415530 557685 492075 255879 59049
30	81	P	1 29 406 3240 17010 61236 153090 262440 295245 196830 59049
30	81	S	1 29 406 3322 18011 68365 185976 364500 509571 494262 314928 118098 19683
30	82	C	1 30 435 4060 27405 141752 550515 1343380 1482640 607930 36156
30	82	P	1 29 406 3654 23751 118001 432514 910866 571774 36156
30	82	S	1 29 406 3654 23751 118252 448356 1144668 1510276 830065 114362 484
30	83	C	1 30 435 4060 27405 141752 552926 1379690 1499465 571620 16920
30	83	P	1 29 406 3654 23751 118001 434925 944765 554700 16920
30	83	S	1 29 406 3654 23751 118252 449795 1167914 1545358 807183 77841 120
30	84	C	1 30 435 4060 27405 140238 533995 1390120 1756980 331120 1920
30	84	P	1 29 406 3654 23751 116487 417508 888900 614576 31744 96
30	84	S	1 29 406 3654 23751 117243 436978 1163594 1741920 680008 26160 560
30	85	C	1 30 435 4010 26130 126498 460810 1222830 1721280 620760 11520
30	85	P	1 29 406 3604 22526 103972 356838 796016 706960 106056 744
30	85	S	1 29 406 3614 22771 106979 381694 1015478 1635984 955444 71856 48
30	86	C	1 30 435 4060 27405 142506 593775 2010060 5102700 6907600 1981924 6720
30	86	P	1 29 406 3654 23751 118755 475020 1507648 3244332 2760660 254352
30	86	S	1 29 406 3654 23751 118755 475020 1547052 3916655 6336211 3989930 365722 29 1
30	87	C	1 30 435 4010 26130 126876 472150 1365300 2954745 4463910 4345569 2427570 590490
30	87	P	1 29 406 3604 22526 104350 367800 978846 1862235 2355885 1822500 752328 118098
30	87	S	1 29 406 3614 22771 107231 389044 1106156 2417221 3869937 4288518 3072006 1270647 229635
30	88	C	1 30 435 4060 27405 140626 555625 1679375 3843750 6603125 8350000 7350000 4000000 1000000
30	88	P	1 29 406 3654 23751 116875 438750 1240625 2603125 4000000 4350000 3000000 1000000
30	88	S	1 29 406 3654 23751 117501 450404 1338531 3070779 5410626 7253750 7256875 5228125 2550000 750000 100000
30	89	C	1 30 435 4060 27405 142128 585585 1951020 5245350 11007850 16920000 17475000 10750000 3000000
30	89	P	1 29 406 3654 23751 118377 467208 1477086 3685160 6927510 9123750 7627500 3500000 600000
30	89	S	1 29 406 3654 23751 118503 469812 1509468 3946387 8253303 13328950 15912950 13370125 7406525 2415000 350000
31	1	C	1 31
31	1	P	1 15
31	1	S	1 30 1
31	2	C	1 31 31 1

Table 2 (continued)

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31    2 P  1 30 1
31    2 S  1 30 31 2
31    3 C  1 31 465 527
31    3 P  1 30 345 136
31    3 S  1 30 435 557 1
31    4 C  1 31 465 527
31    4 P  1 30 345 136
31    4 S  1 30 435 557 1
31    5 C  1 31 465 527
31    5 P  1 30 330 151
31    5 S  1 30 435 557 1
31    6 C  1 31 465 992 558 1
31    6 P  1 30 435 557 1
31    6 S  1 30 435 992 508 2
31    7 C  1 31 465 992 558 1
31    7 P  1 30 435 557 1
31    7 S  1 30 435 992 508 2
31    8 C  1 31 465 992 558 1
31    8 P  1 30 435 557 1
31    8 S  1 30 435 992 508 2
31    9 C  1 31 465 4495 13020 14756
31    9 P  1 30 435 3710 8400 3808
31    9 S  1 30 435 4060 13455 14786 1
31   10 C  1 31 465 4185 18321 9765
31   10 P  1 30 435 3750 10601 1567
31   10 S  1 30 435 3810 16981 11501 10
31   11 C  1 31 465 4185 18135 9951
31   11 P  1 30 420 3390 10315 2228
31   11 S  1 30 435 3800 16756 11701 45
31   12 C  1 31 465 4495 16523 11253
31   12 P  1 30 435 3710 10028 2180
31   12 S  1 30 435 4060 15563 12678 1
31   13 C  1 31 465 4495 17515 28241 14787 1
31   13 P  1 30 435 4060 13455 14786 1
31   13 S  1 30 435 4060 16955 28646 15377 32
31   14 C  1 31 465 4185 18321 27621 13950 930 31 1
31   14 P  1 30 435 3750 14571 13050 900 30 1
31   14 S  1 30 435 3810 16981 27542 15320 1385 31 1
31   15 C  1 31 465 4495 22196 28242 10106
31   15 P  1 30 435 4060 18136 10106
31   15 S  1 30 435 4060 20336 28627 11996 51
31   16 C  1 31 465 4495 19623 28241 12679 1
31   16 P  1 30 435 4060 15563 12678 1
31   16 S  1 30 435 4060 18163 28616 14169 62
31   17 C  1 31 465 4495 31465 169911 522009 320199
31   17 P  1 30 435 4060 27405 134190 290575 67592
31   17 S  1 30 435 4060 27405 142506 457065 406161 10882 30 1
31   18 C  1 31 465 4495 31465 169911 522009 320199
31   18 P  1 30 435 4060 27405 134190 290575 67592
31   18 S  1 30 435 4060 27405 142506 457065 406409 10634 30 1
31   19 C  1 31 465 4495 31465 166005 522195 322679 1240
31   19 P  1 30 435 4060 27405 131820 291515 69017 5
31   19 S  1 30 435 4060 27405 139860 454715 407769 14300 1
31   20 C  1 31 465 4495 31465 169911 599571 863226 417043 10912 31 1
31   20 P  1 30 435 4060 27405 142506 457065 406161 10882 30 1
31   20 S  1 30 435 4060 27405 142506 508725 855156 511821 46822 189 2
31   21 C  1 31 465 4495 31465 169911 599571 863474 417043 10664 31 1
31   21 P  1 30 435 4060 27405 142506 457065 406409 10634 30 1
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Table 2 (continued)

n	#	?	Coset weights
31	21	S	1 30 435 4060 27405 142506 500725 855204 511021 46774 189 2
31	22	C	1 31 465 4495 31465 166005 585745 860684 430869 17360 31 1
31	22	P	1 30 435 4060 27405 138600 447145 413539 17330 30 1
31	22	S	1 30 435 4060 27405 139860 497080 848784 523574 55041 81 1
31	23	C	1 31 465 4495 31465 169911 736281 2629575 7490220 13798100 8265964 627924
31	23	P	1 30 435 4060 27405 142506 593775 2010060 5102700 6907600 1981924 6720
31	23	S	1 30 435 4060 27405 142506 593775 2035800 5653595 11243730 11228077 2557716 67271 30 1
31	24	C	1 31 465 4495 31465 169911 736281 2629575 7689395 16897325 22471807 13785793 2624987 67301 31 1
31	24	P	1 30 435 4060 27405 142506 593775 2035800 5653595 11243730 11228077 2557716 67271 30 1
31	24	S	1 30 435 4060 27405 142506 593775 2035800 5756435 12803170 19795405 17569412 7312495 997406 68481 2048
33	1	C	1 33 495 495
33	1	P	1 31 360 120
33	1	S	1 32 466 525
33	2	C	1 33 528 991 495
33	2	P	1 32 496 495
33	2	S	1 32 496 991 527 1
33	3	C	1 33 495 2970 594 3
33	3	P	1 31 435 1545 36
33	3	S	1 32 466 2850 744 3
33	4	C	1 33 223 671 1320 1848
33	4	P	1 32 191 480 840 504
33	4	S	1 32 223 672 1320 1848
33	5	C	1 33 528 3466 3564 597 3
33	5	P	1 32 496 2970 594 3
33	5	S	1 32 496 3316 3596 748 3
33	6	C	1 33 223 671 1320 1848 1848 1320 660 220 44 4
33	6	P	1 32 191 480 840 1008 840 480 180 40 4
33	6	S	1 32 223 672 1320 1848 1848 1320 660 220 44 4
33	7	C	1 33 528 5456 40920 217096 545897 236995 1650
33	7	P	1 32 496 4960 35960 173144 276015 33680
33	7	S	1 32 496 4960 35960 187186 509362 305460 5117 2
33	8	C	1 33 495 4455 26730 112266 327096 485100 92400
33	8	P	1 31 435 3645 20250 78120 199206 210000 12600
33	8	S	1 32 466 40. 23895 98496 286146 469560 165900
33	9	C	1 33 528 5456 40920 217096 618453 754622 377410 70345 11264 1024
33	9	P	1 32 496 4960 35960 181136 437317 317305 60105 10240 1024
33	9	S	1 32 496 4960 35960 187186 560623 763122 440092 92252 11404 1024
33	10	C	1 33 528 4951 31185 138996 439362 577500 92400
33	10	P	1 32 496 4455 26730 112266 327096 485100 92400
33	10	S	1 32 496 4546 27977 122392 384642 755706 635460 165900
33	11	C	1 33 528 5456 40920 237336 1017467 2179111 711964 1485 3
33	11	P	1 32 496 4960 35960 199990 762201 1005711 87794 7
33	11	S	1 32 496 4960 35960 201376 848148 2011702 1076059 15563 7
33	12	C	1 33 495 4455 26730 112266 336798 721710 1082565 1082565 649539 177147
33	12	P	1 31 435 3645 20250 78246 214326 415530 557685 492075 255879 59049
33	12	S	1 32 466 4080 23895 99496 292572 629856 973215 1049760 747954 314928 59049
33	13	C	1 33 528 5456 40920 237336 1032548 2666653 2994915 1280565 125392 4261
33	13	P	1 32 496 4960 35960 201376 831172 1835481 1159434 121131 4261
33	13	S	1 32 496 4960 35960 201376 858232 2337936 3058969 1644132 240646 5868

Table 2 (continued)

n	#	T	Coset weights

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n   #  T  Coset weights
--  -- -  ------------------------------------------------
33  14 C  1 33 520 4951 31185 138996 449064 1058508 1804275 2165130 1732104
          826686 177147
33  14 P  1 32 496 4485 26730 112266 336798 721710 1082565 1082565 649539
          177147
33  14 S  1 32 496 4546 27977 122392 391068 922428 1603071 2022975 1797714
          1062882 373977 59049
34   1 C  1 34 273 476 230 2
34   1 P  1 33 240 236 2
34   1 S  1 33 273 477 230 2
34   2 C  1 34 561 5100 26826 49998 38148 10404
34   2 P  1 33 520 4572 22254 27744 10404
34   2 S  1 33 520 4692 24428 40537 40477 12274 102
34   3 C  1 34 561 5984 46376 273972 1212950 3714602 7294224 4104400 124032
34   3 P  1 33 520 5456 40920 233052 979890 2734704 3600768 781728 11520
34   3 S  1 33 520 5456 40920 234312 1017734 3156966 6534417 5386785 400064
35   1 C  1 35 87 5
35   1 P  1 34 29
35   1 S  1 34 87 6
35   2 C  1 35 87 85 40 8
35   2 P  1 34 53 32 8
35   2 S  1 34 87 86 40 8
35   3 C  1 35 241 595 145 7
35   3 P  1 34 207 240 22
35   3 S  1 34 241 596 145 7
35   4 C  1 35 241 595 670 378 112 16
35   4 P  1 34 207 388 282 96 16
35   4 S  1 34 241 596 670 378 112 16
35   5 C  1 35 490 2730 840
35   5 P  1 31 375 1461 180
35   5 S  1 34 463 2570 1020
35   6 C  1 35 525 3221 3570 840
35   6 P  1 34 491 2730 840
35   6 S  1 34 497 3042 3590 1020
35   7 C  1 35 595 5887 23310 2940
35   7 P  1 34 561 5030 10686 72
35   7 S  1 34 561 5437 22378 4357
35   8 C  1 35 490 3430 12005 16807
35   8 P  1 31 378 2254 6517 7203
35   8 S  1 34 463 3164 10927 15778 2401
35   9 C  1 35 595 5887 26047 26845 6125 1
35   9 P  1 34 561 5326 20721 6124 1
35   9 S  1 34 561 5437 24788 27296 7418 1
35  10 C  1 35 525 3921 15435 28812 16807
35  10 P  1 34 491 3430 12005 16807
35  10 S  1 34 497 3620 14091 26705 18179 2401
35  11 C  1 35 525 4345 20790 31220 8620
35  11 P  1 34 488 3698 14431 12664 1452
35  11 S  1 34 497 4034 19154 31270 10378 168
35  12 C  1 35 525 4415 22925 48266 41245 12820 840
35  12 P  1 34 491 3924 19001 29265 11980 840
35  12 S  1 34 497 4094 20989 46722 43041 14686 1008
35  13 C  1 35 595 5887 32655 96362 119441 7168
35  13 P  1 34 561 5100 24313 55861 45106 96
35  13 S  1 34 561 5437 30105 89624 116697 19685
35  14 C  1 35 595 5887 34692 117117 202881 139105 23975
35  14 P  1 34 561 5326 29366 87751 115130 23975
35  14 S  1 34 561 5437 31934 109131 195461 147494 34187 48
35  15 C  1 35 595 6545 48867 237825 217185 13235
```

<div align="center">Table 2 (continued)</div>

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n     i  ?  Coset weights
--  ---  -  ----------------------------
35   15  P  1 34 561 5914 41217 145638 60035 744
35   15  S  1 34 561 5904 43630 211302 242217 20553 6
35   16  C  1 35 525 4415 22925 76727 169305 250355
35   16  P  1 34 491 3924 19001 57726 111579 69380
35   16  S  1 34 497 4094 20909 70154 156877 238918 32724
35   17  C  1 35 595 6545 50022 266882 454905 250816 18765 10
35   17  P  1 34 561 5904 44038 222844 232061 18755 10
35   17  S  1 34 561 5904 44562 234228 451779 204026 27385 16
35   18  C  1 35 525 4415 22925 76727 169305 250355 250355 169305 76727 22925
                4415 525 35 1
35   18  P  1 34 491 3924 19001 57726 111579 138776 111579 57726 19001 3924 491
                34 1
35   18  S  1 34 497 4094 20909 70154 156877 238918 250355 180742 89155 29490
                6351 846 63 2
35   19  C  1 35 595 6545 50022 266882 958170 2120928 786450 4676
35   19  P  1 34 561 5904 44038 222844 735326 966666 121652 46
35   19  S  1 34 561 5904 44562 234228 841626 1920780 1105265 41226 37
35   20  C  1 35 595 6545 50022 266882 958170 2120928 2522205 1611326 627683
                104380 35348 4200 280 8
35   20  P  1 34 561 5904 44038 222844 735326 1385602 1136603 474723 152960
                31420 3928 272 8
35   20  S  1 34 561 5904 44562 234228 841626 1920780 2503901 1785830 752041
                240656 51108 6776 504 16
35   21  C  1 35 595 6475 50050 286020 1210300 3668700 6988800 4460400 105840
35   21  P  1 34 558 5820 42745 229770 900680 2444400 3612240 1152000 360
35   21  S  1 34 561 5924 44466 247590 1029900 3129360 6302220 5378520 630640
35   22  C  1 35 595 6545 52360 317696 1453900 4841270 10678920 11505900 4591440
                105840
35   22  P  1 34 561 5904 46376 271320 1182580 3658620 7020300 4485600 105840
35   22  S  1 34 561 5904 46376 273286 1226604 4088711 9410314 11756161 6093360
                653040
35   23  C  1 35 595 6545 52185 319627 1554035 6110545 19354650 44596930
                51128700 11058600 35280
35   23  P  1 34 561 5974 45941 270186 1254869 4679938 13680468 26320940
                19306128 1543464 360
35   23  S  1 34 561 5904 46236 274392 1293468 4939872 15310833 36074098
                50973133 24168116 1130712 288
35   24  C  1 35 595 6545 52360 324632 1623160 6707366 22924475 60399570
                96615617 66736740 13001520 42840
35   24  P  1 34 561 5904 46376 278256 1344904 5362462 17562013 42837557
                53770060 12958680 42840
35   24  S  1 34 561 5904 46376 278256 1344904 5369323 17811691 47031250
                84905545 79759591 30028266 1773290 384
35   25  C  1 35 595 6475 50225 293125 1325625 4715625 13256250 29312500
                502225000 64750000 59500000 35000000 10000000
35   25  P  1 34 558 5830 43180 239250 1020750 3401250 8881875 18062500 28112500
                32400000 26050000 13000000 3000000
35   25  S  1 34 561 5924 44606 253020 1114810 3880000 10747125 23691250
                41273125 55987500 57687500 43400000 22350000 7000000 1000000
36    1  C  1 36 147 220 108
36    1  P  1 35 112 108
36    1  S  1 35 147 221 108
36    2  C  1 36 258 476 253
36    2  P  1 35 223 253
36    2  S  1 35 258 477 253
36    3  C  1 36 147 336 504 504 336 144 36 4
36    3  P  1 35 112 224 280 224 112 32 4
36    3  S  1 35 147 337 504 504 336 144 36 4
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Table 2 (continued)

n	θ	T	Coset weights
36	4	C	1 36 258 708 1045 1008 672 288 72 8
36	4	P	1 35 223 485 560 448 224 64 8
36	4	S	1 35 258 709 1045 1008 672 288 72 9
36	5	C	1 36 477 1416 2130 36
36	5	P	1 35 442 974 596
36	5	S	1 35 453 1393 2146 68
36	6	C	1 36 259 948 1950 2364 1718 732 168 16
36	6	P	1 35 224 724 1226 1138 580 152 16
36	6	S	1 35 259 949 1950 2364 1718 732 168 16
36	7	C	1 36 477 1416 2130 2052 1344 576 144 16
36	7	P	1 35 442 974 1156 896 448 128 16
36	7	S	1 35 453 1393 2146 2076 1352 576 144 16
36	8	C	1 36 401 1824 4018 4836 3436 1464 336 32
36	8	P	1 35 366 1458 2560 2276 1160 304 32
36	8	S	1 35 389 1801 4030 4860 3436 1464 336 32
36	9	C	1 36 477 1920 3942 4740 3436 1464 336 32
36	9	P	1 35 442 1478 2464 2276 1160 304 32
36	9	S	1 35 453 1893 3950 4760 3444 1464 336 32
36	10	C	1 36 513 3057 8217 4338 222
36	10	P	1 35 478 2579 4187 894 18
36	10	S	1 35 489 2956 8147 4508 248
36	11	C	1 36 307 1516 4680 8892 9938 5940 1458
36	11	P	1 35 272 1244 3436 5456 4482 1458
36	11	S	1 35 307 1517 4680 8892 9938 5940 1458
36	12	C	1 36 477 2020 7443 10100 7743 3276 720 64
36	12	P	1 35 442 2378 5065 5123 2620 656 64
36	12	S	1 35 453 2647 7099 10041 7991 3581 840 80
36	13	C	1 36 513 3057 8217 10539 7077 2688 576 64
36	13	P	1 35 478 2579 5638 4901 2176 512 64
36	13	S	1 35 489 2956 8147 10641 7171 2688 576 64
36	14	C	1 36 513 3732 14005 21996 16782 6876 1467 128
36	14	P	1 35 478 3254 10751 11245 5537 1339 128
36	14	S	1 35 489 3535 13365 21561 17206 7477 1707 160
36	15	C	1 36 513 3480 12141 21912 18769 7212 1344 128
36	15	P	1 35 478 3002 9139 12773 5996 1216 128
36	15	S	1 35 489 3321 11789 21829 19097 7455 1392 128
36	16	C	1 36 307 1632 6120 17136 34358 42732 24750 4000
36	16	P	1 35 272 1360 4760 12376 21982 20750 4000
36	16	S	1 35 307 1633 6120 17136 34358 42732 24750 4000
36	17	C	1 36 513 3732 15303 38412 44355 22884 5364 472
36	17	P	1 35 478 3254 12049 26363 17992 4892 472
36	17	S	1 35 489 3535 14639 37393 44467 24019 5940 554
36	18	C	1 36 470 2964 11081 34104 68893 85060 49827 8108
36	18	P	1 35 435 2529 9352 24752 44141 41719 8108
36	18	S	1 35 452 2892 11731 33925 68833 86021 50055 8199
36	19	C	1 36 513 3732 15303 38412 62139 66396 46956 21536 6096 960 64
36	19	P	1 35 478 3254 12049 26363 35776 30620 16336 5200 896 64
36	19	S	1 35 489 3535 14639 37393 61651 66997 47972 22136 6256 976 64
36	20	C	1 36 567 4986 25947 77112 110673 37746 4860 216
36	20	P	1 34 495 3936 18003 45162 50985 11700 756
36	20	S	1 35 538 4638 23829 70887 105840 48024 7920 432
36	21	C	1 36 525 3180 12240 33348 64596 84708 63510
36	21	P	1 35 490 2690 9410 22818 37998 39990 17640
36	21	S	1 35 501 3121 12184 33352 64660 84764 63526
36	22	C	1 36 603 5554 30933 103059 187785 148419 42606 5076 216
36	22	P	1 35 568 4986 25947 77112 110673 37746 4860 216
36	22	S	1 35 571 5177 28469 94716 176727 153864 55944 8352 432
36	23	C	1 36 525 3180 12240 34356 74340 127332 175038 97240

Table 2 (continued)

n	#	T	Coset weights

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 n   #   T  Coset weights
 --  ---  -  ----------------------------
 36  23 P  1 35 490 2690 9550 24806 49534 77790 97240
 36  23 S  1 35 501 3121 12104 34356 74396 127300 175062 97244
 36  24 C  1 36 603 5888 35065 136530 309754 371250 177633 10504 432
 36  24 P  1 35 568 5320 30545 105905 203769 167401 10152 432
 36  24 S  1 35 571 5471 33011 126199 293245 371209 196596 21294 864
 36  25 C  1 36 603 5908 38133 151956 346932 371277 110206 14796 648
 36  25 P  1 35 568 5420 32255 112479 203214 140292 28296 1728
 36  25 S  1 35 571 5539 34629 137495 320796 370770 153100 24264 1296
 36  26 C  1 36 603 6124 41148 186004 527169 812700 478791 43632 864
 36  26 P  1 35 560 5556 35592 150492 376677 436023 42760 864
 36  26 S  1 35 571 5672 37523 160801 485169 770938 523584 95130 1728
 36  27 C  1 36 603 5908 38133 157644 411357 630604 543438 240609 50020 5616
              216
 36  27 P  1 35 568 5420 32713 124931 286426 344258 199180 49428 5400 216
 36  27 S  1 35 571 5539 34629 141809 372749 595005 557854 295544 82268 10644
              504
 36  28 C  1 36 582 5340 30213 109596 274812 507276 719388 425635 23580 693
 36  28 P  1 35 547 4793 25420 84176 190636 316640 402740 22807 693
 36  28 S  1 35 552 4904 28127 103635 265462 499402 718470 439417 35964 1023
 36  29 C  1 36 630 7024 54145 284332 920796 1588896 1115964 216064 5616
 36  29 P  1 35 595 6429 47716 236616 604180 904716 211248 5616
 36  29 S  1 35 595 6440 48537 252350 832521 1517793 1200010 320526 7488
 36  30 C  1 36 603 6108 41193 192996 622195 1267092 1290421 617960 134307
              12960 432
 36  30 P  1 35 568 5540 35653 157343 464052 802240 496181 121779 12528 432
 36  30 S  1 35 571 5655 37513 174413 564395 1175613 1290789 717700 194875
              23736 1008
 36  31 C  1 36 603 6108 41193 191412 609399 1272690 1573398 486028 12636
 36  31 P  1 35 568 5540 35531 152979 431499 743503 655300 71748 360
 36  31 S  1 35 571 5655 37513 173195 556511 1199136 1577815 613072 30000
 36  32 C  1 36 603 6240 44676 234864 888693 2174068 2833281 1745464 426186
              32832 864
 36  32 P  1 35 568 5672 39004 195860 692833 1482035 1351246 394218 31968 864
 36  32 S  1 35 571 5769 40452 209100 786245 1967415 2790113 1949879 566906
              62106 2016
 36  33 C  1 36 603 6108 41193 192996 640977 1527588 2655738 2333656 848124
              133920 7668
 36  33 P  1 35 568 5540 35653 157343 483634 1043954 1611784 721872 126252 7668
 36  33 S  1 35 571 5655 37513 174413 581649 1410737 2522746 2408932 1038756
              194532 13068
 36  34 C  1 36 630 7140 57673 346080 1477098 4027176 5962242 3942512 889236
              65664 1728
 36  34 P  1 35 595 6545 51128 294952 1182146 2845030 3117212 825300 63936 1728
 36  34 S  1 35 595 6545 51401 300923 1275629 3602735 5862978 4353902 1193972
              124468 4032
 36  35 C  1 36 603 6240 44676 234360 925092 2745792 5888106 5752950 1179360
 36  35 P  1 35 560 5672 38969 194271 715596 1914276 3431400 1946700 141120
 36  35 S  1 35 571 5769 40452 208722 815598 2420964 5286834 6076350 1901760
              20160
 36  36 C  1 36 630 6535 46035 232551 866052 2405700 4979799 7577955 8227494
              6022998 2657205 531441
 36  36 P  1 35 595 5940 40095 192456 673596 1732104 3247695 4330260 3897234
              2125764 531441
 36  36 S  1 35 595 6040 41615 206317 758241 2095632 4370355 6832188 7866639
              6456024 3562623 1180980 177147
 36  37 C  1 36 603 6240 44676 234864 939036 2918304 7143966 10583188 8261694
              3011904 387240 22680
 36  37 P  1 35 568 5672 39004 195860 743176 2175128 4968838 5614350 2647344
              364560 22680
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Table 2 (continued)

n	#	T	Coset weights
36	37	S	1 35 571 5769 40452 209100 826140 2552820 6261150 10109288 8906142 3872484 662760 27720
36	38	C	1 36 630 6969 53883 299943 1227312 3732966 8452755 14106150 16907697 13817466 6908733 1594323
36	38	P	1 35 595 6374 47051 246744 939276 2623644 5373459 7954119 8234055 5589972 2184813 354294
36	38	S	1 35 595 6402 48273 263853 1067007 3232494 7368975 12584079 15851376 14278923 8606764 3188646 531441
36	39	C	1 36 630 7140 58593 367464 1797084 6800676 18792522 28277880 10670796 336042
36	39	P	1 35 595 6545 52013 314541 1467808 5130554 12083556 12595398 1901730 1656
36	39	S	1 35 595 6545 52117 317445 1513827 5640309 15734689 26787107 15907932 1147290 972
36	40	C	1 36 630 7024 55377 325080 1437024 4788396 12010275 22543596 31206303 30941676 20004931 8503056 1594323
36	40	P	1 35 595 6429 48948 276132 1160892 3627504 8382771 14160825 17045478 13896198 6908733 1594323
36	40	S	1 35 595 6448 49496 283756 1234821 4092306 10327854 19787490 28532574 30420441 23223753 11986947 3739770 531441
36	41	C	1 36 630 6969 53883 305631 1304103 4236606 10519911 19917253 28487700 30222396 23022549 11888532 3720087 531441
36	41	P	1 35 595 6374 47509 258122 1045981 3190625 7329286 12587967 15899733 14322663 8699886 3188646 531441
36	41	S	1 35 595 6402 48273 268167 1127496 3639165 9074352 17490547 25933481 29249398 24597675 14913315 6149844 1541835 177147
36	42	C	1 36 630 7140 58593 367968 1811028 7010736 21177402 43138888 42337146 16493376 1724064 90720
36	42	P	1 35 595 6545 52048 315920 1495108 5515628 15661774 27477114 14860032 1633344 90720
36	42	S	1 35 595 6545 52117 317823 1523907 5787201 17345778 37372670 44607226 23509774 3579240 114816
36	43	C	1 36 630 7080 57015 348156 1649896 6067296 17087211 36232274 56780757 64242882 50670603 26257122 7971615 1062882
36	43	P	1 35 595 6485 50530 297626 1352270 4715026 12372185 23860089 32920668 31322214 19348389 6908733 1062882
36	43	S	1 35 595 6495 50835 302127 1399327 5073167 14281963 30833165 50345620 61163858 54041985 33519015 13743108 3319866 354294
39	1	C	1 39 702 3042 312
39	1	P	1 37 585 1395 30
39	1	S	1 38 667 3030 360
39	2	C	1 39 741 3745 3354 312
39	2	P	1 38 703 3042 312
39	2	S	1 38 703 3697 3392 361
39	3	C	1 39 702 6162 9243 237
39	3	P	1 37 630 4470 3054
39	3	S	1 38 667 5844 9533 301
39	4	C	1 39 315 1157 2060 5148 6864
39	4	P	1 38 277 880 1980 3168 1848
39	4	S	1 38 315 1158 2060 5148 6864
39	5	C	1 39 741 6865 15405 9480 237
39	5	P	1 38 703 6162 9243 237
39	5	S	1 38 703 6511 15379 9835 301
39	6	C	1 39 315 1157 2060 5149 6864 6864 5148 2860 1144 312 52 4
39	6	P	1 38 277 880 1980 3168 3696 3168 1980 880 264 48 4
39	6	S	1 38 315 1158 2860 5148 6864 6864 5148 2860 1144 312 52 4
39	7	C	1 39 741 9139 82251 561210 2786407 7553312 5576298 207740 78
39	7	P	1 38 703 8436 73815 487395 2222856 4341174 1251528 2662

Table 2 (continued)

n	#	T	Coset weights
39	7	S	1 38 703 8436 73815 491100 2414671 6935208 6395548 457566 130
39	8	C	1 39 702 7722 57915 312741 1250964 3711708 7081074 4354350
39	8	P	1 37 630 6534 46035 232551 865590 2334486 3643794 1258950
39	8	S	1 38 667 7164 52569 278586 1098603 3244428 6465690 5352270 277200
39	9	C	1 39 741 9139 82251 561210 2786407 8251152 11842220 7626866 2012348
			324714 53248 4096
39	9	P	1 38 703 8436 73815 487395 2299012 5952140 5890080 1736786 275562
			49152 4096
39	9	S	1 38 703 8436 73815 491100 2414671 7431064 11681100 8491202 2553678
			351280 53248 4096
39	10	C	1 39 741 8425 65637 370656 1563705 4962672 10792782 11435424 4354350
39	10	P	1 38 703 7722 57915 312741 1250964 3711708 7081074 4354350
39	10	S	1 38 703 7831 59735 331156 1377189 4343031 9710118 11817960 5629470
			277200
39	11	C	1 39 741 9139 82251 575757 3191071 13440297 31721515 17694464 392328
			1261
39	11	P	1 38 703 8436 73815 501942 2689129 10233064 16522335 3517125 7842 2
39	11	S	1 38 703 8436 73815 501942 2711065 11306912 28825443 22421974
			1256906 1627 2
39	12	C	1 39 702 7722 57915 312741 1250964 3752892 8444007 14073345 16888014
			13817466 6908733 1594323
39	12	P	1 37 630 6534 46035 232551 866052 2405700 4979799 7577955 8227494
			6022998 2657205 531441
39	12	S	1 38 667 7164 52569 278586 1098603 3271752 7385499 12557754 15005449
			14250492 8680203 3188646 531441
39	13	C	1 39 741 9139 82251 575757 3191071 13440297 36048519 48003844
			27490660 5061097 287567 18667 77 1
39	13	P	1 38 703 8436 73815 501942 2689129 10751168 25297351 22706488
			4792142 268979 18594 77 1
39	13	S	1 38 703 8436 73815 501942 2711065 11306912 31657675 47417420
			32202406 7853250 463049 20864 150 2
39	14	C	1 39 741 8425 65637 370656 1563705 5003856 12196899 22517352
			30961359 30705480 20726199 8503056 1594323
39	14	P	1 38 703 7722 57915 312741 1250964 3752892 8444007 14073345 16888014
			13817466 6908733 1594323
39	14	S	1 38 703 7831 59735 331156 1377189 4370355 10657251 19943253
			28363203 30055941 22930695 11868849 3720087 531441
40	1	C	1 40 153 200 102 16
40	1	P	1 39 114 86 16
40	1	S	1 39 153 201 102 16
40	2	C	1 40 252 440 259 32
40	2	P	1 39 213 227 32
40	2	S	1 39 252 441 259 32
40	3	C	1 40 318 920 705 64
40	3	P	1 39 279 641 64
40	3	S	1 39 318 921 705 64
40	4	C	1 40 318 920 1265 960 448 128 16
40	4	P	1 39 279 641 624 336 112 16
40	4	S	1 39 318 921 1265 960 448 128 16
40	5	C	1 40 285 920 1722 2088 1720 968 360 80 9
40	5	P	1 39 246 674 1048 1040 680 288 72 8
40	5	S	1 39 285 921 1722 2088 1720 968 360 80 9
40	6	C	1 40 552 3240 7299 8896 7060 3888 1440 320 32
40	6	P	1 39 513 2727 4572 4324 2736 1152 288 32
40	6	S	1 39 532 3165 7239 8932 7132 3928 1448 320 32
40	7	C	1 40 381 2280 9002 23008 36280 33728 18900 6480 972
40	7	P	1 39 342 1938 7064 15944 20336 13392 5508 972
40	7	S	1 39 381 2281 9002 23008 36280 33728 18900 6480 972

Table 2 (continued)

n	e	T	Coset weights
40	8	C	1 40 582 4120 17375 45720 73050 60224 38120 12960 1944
40	8	P	1 39 543 3577 13790 31930 41120 27104 11016 1944
40	8	S	1 39 562 4030 17107 45557 73130 60486 38240 12960 1944
40	9	C	1 40 604 6600 32111 90088 147940 139496 77520 25920 3888
40	9	P	1 39 645 5955 26156 63932 84008 55488 22032 3888
40	9	S	1 39 654 6238 31073 88969 148258 140978 78270 25920 3888
40	10	C	1 40 604 6600 38112 133168 276304 324448 201411 60032 7776
40	10	P	1 39 645 5955 32157 101011 175293 149155 52256 7776
40	10	S	1 39 654 6238 36150 128284 272242 327727 207465 62000 7776
40	11	C	1 40 705 7160 45580 159780 310640 339710 178600 6360
40	11	P	1 39 663 6341 36308 107194 172426 148036 53232 48
40	11	S	1 39 673 6735 42634 153568 308592 343670 183856 8808
40	12	C	1 40 705 7240 48420 192696 465180 662920 527910 185680 6360
40	12	P	1 39 666 6574 41846 150050 314330 348590 179320 6360
40	12	S	1 39 673 6805 45124 183320 454588 664572 539382 193040 8808
40	13	C	1 40 705 7240 48420 199272 539420 996600 1236710 894000 271896
40	13	P	1 39 666 6574 41846 157426 381994 614606 622104 271896
40	13	S	1 39 673 6805 45124 189104 524124 980524 1245926 912680 281304
40	14	C	1 40 705 7240 48420 202584 581020 1234680 2046630 2732160 1517168 17600 360
40	14	P	1 39 666 6574 41846 160738 420282 814398 1232232 1499920 17240 360
40	14	S	1 39 673 6805 45124 192020 562940 1218104 2043270 2743968 1541744 33368 552
40	15	C	1 40 750 8760 71445 424551 1826520 5420665 10253400 10143900 4625100 771300
40	15	P	1 39 711 8049 63396 361155 1465365 3963300 6290100 3853800 771300
40	15	S	1 39 714 8158 65241 381028 1632360 4890601 9563700 10360530 5484320 1128060 20880
40	16	C	1 40 750 8760 71445 429864 1955960 6782200 17858520 35192560 40312403 23839440 6869105 856000 40600
40	16	P	1 39 711 8049 63396 366468 1589492 5192708 12665012 22526748 17785735 6053705 815400 40600
40	16	S	1 39 714 8158 65241 386245 1738636 6011368 15959908 32213014 40210087 27192230 9069517 1297810 63880
40	17	C	1 40 780 9800 88375 603120 3197600 13227200 41648950 91400400 99938790 18295200 25200
40	17	P	1 39 738 8960 77735 507325 2548210 9846760 28322910 52786650 37636200 2482200
40	17	S	1 39 741 9069 79696 530726 2753352 11208288 35177394 79688910 101969280 36418200 599760
41	1	C	1 41 820 10660 101270 543906 391878
41	1	P	1 40 780 9880 88240 337915 87432
41	1	S	1 40 780 9880 91390 500486 443334 2664 1
41	2	C	1 41 820 10660 101270 591876 943820 445998 2665 1
41	2	P	1 40 780 9880 91390 500486 443334 2664 1
41	2	S	1 40 780 9880 91390 538226 949816 500428 6589 2
42	1	C	1 42 63 22
42	1	P	1 41 22
42	1	S	1 41 63 23
42	2	C	1 42 85
42	2	P	1 35 28
42	2	S	1 41 86
42	3	C	1 42 127 86
42	3	P	1 41 86
42	3	S	1 41 127 87
42	4	C	1 42 127 86
42	4	P	1 41 86
42	4	S	1 41 127 87

Table 2 (continued)

a	#	T	Coset weights
42	5	C	1 42 213
42	5	P	1 35 92
42	5	S	1 41 214
42	6	C	1 42 127 166 120 48 8
42	6	P	1 41 86 80 40 8
42	6	S	1 41 127 167 120 48 8
42	7	C	1 42 255 214
42	7	P	1 41 214
42	7	S	1 41 255 215
42	8	C	1 42 337 470 174
42	8	P	1 41 296 174
42	8	S	1 41 337 471 174
42	9	C	1 42 255 414 252 56 4
42	9	P	1 41 214 200 52 4
42	9	S	1 41 255 415 252 56 4
42	10	C	1 42 175 294 280 168 56 8
42	10	P	1 41 134 160 120 48 8
42	10	S	1 41 175 295 280 168 56 9
42	11	C	1 42 591 384 6
42	11	P	1 40 301 90
42	11	S	1 41 566 406 10
42	12	C	1 42 351 630
42	12	P	1 41 310 160
42	12	S	1 41 351 631
42	13	C	1 42 421 980 602 2
42	13	P	1 41 380 600 2
42	13	S	1 41 421 981 602 2
42	14	C	1 42 337 982 686
42	14	P	1 41 296 686
42	14	S	1 41 337 983 686
42	15	C	1 42 633 976 390 6
42	15	P	1 41 592 384 6
42	15	S	1 41 605 973 418 10
42	16	C	1 42 503 882 520 100
42	16	P	1 41 462 420 100
42	16	S	1 41 482 873 541 110
42	17	C	1 42 351 630 560 336 112 16
42	17	P	1 41 310 320 240 96 16
42	17	S	1 41 351 631 560 336 112 16
42	18	C	1 42 367 1190 448
42	18	P	1 41 326 608 48
42	18	S	1 41 367 1191 448
42	19	C	1 42 633 1526 1350 480 64
42	19	P	1 41 592 934 416 64
42	19	S	1 41 605 1509 1378 498 64
42	20	C	1 42 351 1050 1415 924 281 32
42	20	P	1 41 310 740 675 249 32
42	20	S	1 41 351 1051 1415 924 281 32
42	21	C	1 42 367 1190 1456 784 224 32
42	21	P	1 41 326 864 592 192 32
42	21	S	1 41 367 1191 1456 784 224 32
42	22	C	1 42 805 3059 189
42	22	P	1 41 737 1263 6
42	22	S	1 41 769 3051 234
42	23	C	1 42 679 2660 714
42	23	P	1 38 503 1374 132
42	23	S	1 41 650 2582 822
42	24	C	1 42 421 2660 3542 1388 132 6

Table 2 (continued)

n	#	T	Coset weights
42	24	P	1 41 390 2280 1262 126 6
42	24	S	1 41 421 2661 3542 1388 132 6
42	25	C	1 42 337 1280 2436 2436 1280 336 42 2
42	25	P	1 41 296 984 1452 984 296 40 2
42	25	S	1 41 337 1281 2436 2436 1280 336 42 2
42	26	C	1 42 367 1470 3052 2520 676 64
42	26	P	1 41 326 1144 1908 612 64
42	26	S	1 41 367 1471 3052 2520 676 64
42	27	C	1 42 567 2290 3520 1764
42	27	P	1 41 526 1764 1764
42	27	S	1 41 546 2249 3549 1806
42	28	C	1 42 805 3710 3290 344
42	28	P	1 41 764 2946 344
42	28	S	1 41 769 3633 3326 422
42	29	C	1 42 721 3340 3374 714
42	29	P	1 41 680 2660 714
42	29	S	1 41 691 3233 3404 822
42	30	C	1 42 717 4480 2688 252 12
42	30	P	1 41 634 2916 492 12
42	30	S	1 41 689 4435 2762 252 12
42	31	C	1 42 633 2596 4914 6
42	31	P	1 41 592 2004 1458
42	31	S	1 41 605 2569 4938 38
42	32	C	1 42 615 3374 3817 343
42	32	P	1 41 574 2328 1136 16
42	32	S	1 41 594 3315 3873 368
42	33	C	1 42 805 5516 7322 2634 64
42	33	P	1 41 764 4752 2570 64
42	33	S	1 41 769 5334 7358 2817 64
42	34	C	1 42 421 2254 5894 5768 1876 128
42	34	P	1 41 380 1874 4020 1748 128
42	34	S	1 41 421 2255 5894 5768 1876 128
42	35	C	1 42 421 2270 6510 5880 1260
42	35	P	1 41 380 1890 4620 1260
42	35	S	1 41 421 2271 6510 5880 1260
42	36	C	1 42 721 4566 7406 3584 64
42	36	P	1 41 680 3886 3520 64
42	36	S	1 41 691 4435 7436 3716 64
42	37	C	1 42 717 5152 7210 2906 264 12
42	37	P	1 41 676 4476 2734 252 12
42	37	S	1 41 689 5069 7238 3070 264 12
42	38	C	1 42 633 2596 4914 4878 2560 672 84 4
42	38	P	1 41 592 2004 2910 1968 592 80 4
42	38	S	1 41 605 2569 4938 4906 2564 672 84 4
42	39	C	1 42 615 3374 6421 4648 1155 128
42	39	P	1 41 574 2800 3621 1027 128
42	39	S	1 41 594 3315 6426 4708 1171 128
42	40	C	1 42 735 6198 9408
42	40	P	1 40 633 4228 3290
42	40	S	1 41 703 5837 9802
42	41	C	1 42 805 7805 7203 504 24
42	41	P	1 41 737 5556 1833 24
42	41	S	1 41 769 7407 7635 507 24
42	42	C	1 42 721 4532 10374 714
42	42	P	1 41 680 3852 3618
42	42	S	1 41 691 4425 10404 822
42	43	C	1 42 367 1470 3724 5880 4900
42	43	P	1 41 326 1104 2380 2940 1400

Table 2 (continued)

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n    #  T  Coset weights
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42   43 S  1 41 367 1471 3724 5880 4900
42   44 C  1 42 717 6566 14269 9752 1397 24
42   44 P  1 41 676 5890 8379 1373 24
42   44 S  1 41 689 6285 14245 10033 1449 25
42   45 C  1 42 533 4010 9663 10806 5907 1518 180 8
42   45 P  1 41 592 3418 6245 4561 1346 172 6
42   45 S  1 41 605 3785 9267 10751 6271 1795 240 12
42   46 C  1 42 615 3948 11104 12012 4664 382
42   46 P  1 41 574 3374 7730 4282 382
42   46 S  1 41 594 3862 11026 12090 4763 391
42   47 C  1 42 777 6934 15606 9408
42   47 P  1 41 736 6198 9408
42   47 S  1 41 742 6541 15641 9802
42   48 C  1 42 805 8456 15050 7862 529 24
42   48 P  1 41 764 7692 7358 504 24
42   48 S  1 41 769 7989 15080 8330 534 24
42   49 C  1 42 721 4532 10374 10458 5120 1344 168 8
42   49 P  1 41 680 3852 6522 3936 1184 160 8
42   49 S  1 41 691 4425 10404 10566 5120 1344 168 8
42   50 C  1 42 367 1470 4004 8008 12012 6864
42   50 P  1 41 326 1144 2860 5148 6864
42   50 S  1 41 367 1471 4004 8008 12012 6864
42   51 C  1 42 861 8365 20979 2520
42   51 P  1 41 805 6570 8931 36
42   51 S  1 41 820 7899 20743 3264
42   52 C  1 42 735 6790 22680 2520
42   52 P  1 38 595 4740 10650 360
42   52 S  1 41 701 6345 21960 3720
42   53 C  1 42 805 7588 19488 4802 42
42   53 P  1 41 764 6088 9160 330
42   53 S  1 41 769 7217 19512 5186 42
42   54 C  1 42 805 7644 18718 5390 168
42   54 P  1 41 764 6048 8858 672
42   54 S  1 41 769 7201 18754 5834 168
42   55 C  1 42 777 7526 24300 25200 7690
42   55 P  1 41 736 6790 17510 7690
42   55 S  1 41 742 7063 23855 25664 8170
42   56 C  1 42 805 9338 29897 23340 2065 48
42   56 P  1 41 764 8574 21323 2017 48
42   56 S  1 41 769 8757 29636 23921 2362 49
42   57 C  1 42 421 2660 10556 23660 21356 6390 434 16
42   57 P  1 41 380 2280 8276 15384 5972 418 16
42   57 S  1 41 421 2661 10556 23660 21356 6390 434 16
42   58 C  1 42 421 2270 7560 15876 20412 14580 4374
42   58 P  1 41 380 1890 5670 10206 10206 4374
42   58 S  1 41 421 2271 7560 15876 20412 14580 4374
42   59 C  1 42 721 6194 20377 23814 11333 2702 336 16
42   59 P  1 41 680 5514 14863 8951 2382 320 16
42   59 S  1 41 691 5878 19915 24117 11825 2716 336 16
42   60 C  1 42 367 1470 4004 8008 12012 13728 12012 8008 4004 1456 364 56 4
42   60 P  1 41 326 1144 2860 5148 6864 6864 5148 2860 1144 312 52 4
42   60 S  1 41 367 1471 4004 8008 12012 13728 12012 8008 4004 1456 364 56 4
42   61 C  1 42 861 8785 29386 23941 2520
42   61 P  1 41 820 7965 21421 2520
42   61 S  1 41 820 8269 28593 24458 3354
42   62 C  1 42 777 7526 29470 25200 2520
42   62 P  1 41 736 6790 22680 2520
42   62 S  1 41 742 7047 28305 25680 3720
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Table 2 (continued)

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 n    #  T  Coset weights
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42   63 C  1 42 805 7588 24164 24626 7798 512
42   63 P  1 41 764 6824 17340 7286 512
42   63 S  1 41 769 7217 23936 24998 8062 512
42   64 C  1 42 805 7644 23702 24570 8260 512
42   64 P  1 41 764 6880 16822 7748 512
42   64 S  1 41 769 7201 23290 25014 8708 512
42   65 C  1 42 861 10640 45748 8148 96
42   65 P  1 41 805 8995 22319 607
42   65 S  1 41 820 9930 44654 9994 96
42   66 C  1 42 717 5152 21070 33250 5304
42   66 P  1 41 676 4476 14374 12696 504
42   66 S  1 41 689 5069 21022 33362 5352
42   67 C  1 42 675 3696 11340 20496 20496 8784 6
42   67 P  1 40 561 2670 7050 10746 8778 2922
42   67 S  1 41 650 3662 11320 20516 20532 8804 10
42   68 C  1 42 777 7916 36844 19956
42   68 P  1 41 736 7180 21738 3072
42   68 S  1 41 742 7452 34882 22381 37
42   69 C  1 42 861 9800 46249 55694 18425
42   69 P  1 41 820 8980 37269 18425
42   69 S  1 41 820 9140 44180 56355 20535
42   70 C  1 42 777 8038 40516 57456 24242
42   70 P  1 41 736 7302 33214 24242
42   70 S  1 41 742 7528 38224 57967 26569
42   71 C  1 42 805 8470 40901 55986 23829 1038
42   71 P  1 41 764 7706 33195 22791 1038
42   71 S  1 41 769 7985 39317 56459 25449 1051
42   72 C  1 42 421 2660 11970 35490 50792 27344 2352
42   72 P  1 41 380 2280 9690 25800 24992 2352
42   72 S  1 41 421 2661 11970 35490 50792 27344 2352
42   73 C  1 42 805 8470 39858 55440 24872 1584
42   73 P  1 41 764 7706 32152 23288 1584
42   73 S  1 41 769 7985 38470 55830 26296 1680
42   74 C  1 42 777 7084 31611 50841 33147 7569
42   74 P  1 41 736 6348 25263 25578 7569
42   74 S  1 41 742 6684 29753 49904 34866 8907 174
42   75 C  1 42 861 11060 56430 54338 8244 96
42   75 P  1 41 820 10240 46190 8148 96
42   75 S  1 41 820 10300 54335 55099 10380 96
42   76 C  1 42 717 5152 21070 47530 42880 12780 868 32
42   76 P  1 41 676 4476 16594 30936 11944 836 32
42   76 S  1 41 689 5069 21022 47614 42956 12780 868 32
42   77 C  1 42 717 4372 15036 31836 40992 29280 8790 6
42   77 P  1 41 676 3696 11340 20496 20496 8784 6
42   77 S  1 41 689 4313 14984 31836 41048 29336 8814 10
42   78 C  1 42 777 7916 36844 52086 27242 5460 672 32
42   78 P  1 41 736 7180 29664 22422 4820 640 32
42   78 S  1 41 742 7452 34882 52317 29239 5694 672 32
42   79 C  1 42 615 3948 14023 31626 49553 29862 1344 58
42   79 P  1 41 574 3374 10649 20977 28576 1286 58
42   79 S  1 41 594 3062 13897 31573 49616 29995 1428 65
42   80 C  1 42 861 10780 63399 55377 612
42   80 P  1 41 805 9231 40014 15444
42   80 S  1 41 820 10050 59929 59463 768
42   81 C  1 42 777 8116 48174 68922 5040
42   81 P  1 41 736 7380 35034 21984 360
42   81 S  1 41 742 7609 44869 71558 6252
42   82 C  1 42 805 8456 40817 69902 11049
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Table 2 (continued)

n	#	T	Coset weights
42	82	P	1 41 764 7692 29141 26889 1008
42	82	S	1 41 769 7989 39045 70649 11777 1
42	83	C	1 42 805 8456 39830 67634 14304
42	83	P	1 41 764 7692 28238 26928 1872
42	83	S	1 41 769 7989 38942 68482 14848
42	84	C	1 42 861 11480 80790 119050 49420 500
42	84	P	1 41 820 10660 70130 48920 500
42	84	S	1 41 820 10660 75470 119822 54781 549
42	85	C	1 42 717 6566 34135 91448 93162 32946 3057 70
42	85	P	1 41 676 5890 28245 63203 29959 2987 70
42	85	S	1 41 689 6285 32883 89479 93834 35158 3665 109
42	86	C	1 42 717 5762 24426 59010 83098 64728 22830 1530
42	86	P	1 41 676 5086 19340 39670 43428 21300 1530
42	86	S	1 41 689 5569 23894 58304 82914 65376 23574 1782
42	87	C	1 42 777 8336 47281 100434 80817 22196 2196 64
42	87	P	1 41 736 7600 39681 60753 20064 2132 64
42	87	S	1 41 742 7812 44019 97809 83608 25314 2702 96
42	88	C	1 42 861 11200 74221 119218 55989 612
42	88	P	1 41 820 10380 63841 55377 612
42	88	S	1 41 820 10420 69645 119843 60606 768
42	89	C	1 42 777 8116 48174 104538 80776 18312 1344 64
42	89	P	1 41 736 7380 40794 63744 17032 1280 64
42	89	S	1 41 742 7609 44869 104278 84116 19080 1344 64
42	90	C	1 42 805 8456 40817 96950 87713 25560 1736 64
42	90	P	1 41 764 7692 33125 63825 23888 1672 64
42	90	S	1 41 769 7989 39845 96893 88721 26085 1736 64
42	91	C	1 42 805 8456 39830 94682 88700 27828 1736 64
42	91	P	1 41 764 7692 32138 62544 26156 1672 64
42	91	S	1 41 769 7989 38942 94622 89624 28356 1736 64
42	92	C	1 42 861 10430 70770 157360 22680
42	92	P	1 41 820 9330 52420 67380 1080
42	92	S	1 41 820 9758 66083 157841 27600
42	93	C	1 42 819 9618 64008 153216 34104 336
42	93	P	1 40 741 8060 46106 71000 5124
42	93	S	1 41 781 8985 59512 151904 40584 336
42	94	C	1 42 805 8456 44478 126378 81984
42	94	P	1 41 764 7628 35426 70232 16980
42	94	S	1 41 769 7989 43270 125594 84288 192
42	95	C	1 42 805 8470 45374 104776 99652 3024
42	95	P	1 41 764 7588 34914 57852 29912
42	95	S	1 41 769 7985 43378 104714 102028 3228
42	96	C	1 42 861 11480 95053 249398 166229 1224
42	96	P	1 41 820 10660 84393 165005 1224
42	96	S	1 41 820 10660 87125 246959 174198 4484
42	97	C	1 42 777 8336 54159 183078 204183 70560 3024 128
42	97	P	1 41 736 7600 46559 136519 67664 2896 128
42	97	S	1 41 742 7812 50357 174191 208020 79972 3024 128
42	98	C	1 42 805 9338 62657 187516 195080 65120 3601 128
42	98	P	1 41 764 8574 54083 133433 61647 3473 128
42	98	S	1 41 769 8757 58781 183171 198920 70046 3673 129
42	99	C	1 42 421 2660 11970 40698 102074 166578 143304 52166 4374
42	99	P	1 41 380 2280 9690 31008 71066 95512 47792 4374
42	99	S	1 41 421 2661 11970 40698 102074 166578 143304 52166 4374
42	100	C	1 42 805 9338 61807 182798 195391 69838 4060 128
42	100	P	1 41 764 8574 53313 129485 65906 3932 128
42	100	S	1 41 769 8757 57723 177343 199027 75863 4624 140
42	101	C	1 42 861 9800 65282 173902 196030 78400
42	101	P	1 41 820 8980 56302 117600 78400

Table 2 (continued)

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 n    #  T  Coset weights
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42  101  S  1 41 820 9140 59982 168473 201061 84490 280
42  102  C  1 42 861 10430 73780 225526 187502 26146
42  102  P  1 41 820 9610 64170 161356 26146
42  102  S  1 41 820 9758 68837 219299 192486 33046
42  103  C  1 42 861 10438 73626 217224 187320 34440 336
42  103  P  1 41 820 9618 64008 153216 34104 336
42  103  S  1 41 820 9766 68499 211417 192488 40920 336
42  104  C  1 42 777 7596 42875 136857 218491 117649
42  104  P  1 41 736 6860 36015 100842 117649
42  104  S  1 41 742 7107 39480 125342 205114 129654 16807
42  105  C  1 42 805 8456 45234 141246 206024 112400 10080
42  105  P  1 41 764 7692 37542 103704 102320 10080
42  105  S  1 41 769 7989 43962 140082 206948 114032 10464
42  106  C  1 42 805 8470 46690 128352 208936 125280 5712
42  106  P  1 41 764 7706 38984 89368 119568 5712
42  106  S  1 41 769 7985 44582 126966 210696 127152 6096
42  107  C  1 42 861 10990 83979 269451 155940 3024
42  107  P  1 41 805 9591 63816 146004 41850 36
42  107  S  1 41 820 10230 77314 257418 171990 6474
42  108  C  1 42 777 8266 54915 209538 225234 25515
42  108  P  1 41 736 7530 45783 133425 70794 3834
42  108  S  1 41 742 7752 50905 195771 234591 34395 90
42  109  C  1 42 861 11060 88518 302134 121302 370
42  109  P  1 41 820 10240 74522 160184 16336
42  109  S  1 41 820 10300 81703 291379 139452 592
42  110  C  1 42 717 5152 23856 77952 162708 172164 81690 6
42  110  P  1 41 676 4476 18960 54372 91236 71964 20418
42  110  S  1 41 689 5069 23744 77908 162800 172288 81734 14
42  111  C  1 42 861 11060 84038 288134 138136 2016
42  111  P  1 41 820 10240 70282 155544 25144 72
42  111  S  1 41 820 10300 78007 278231 154497 2391
42  112  C  1 42 861 11074 90496 383348 429710 129024 3220
42  112  P  1 41 820 10254 80242 303106 126604 3220
42  112  S  1 41 820 10311 83319 361154 436484 152782 3664
42  113  C  1 42 861 11090 89166 369012 433000 144144 1260
42  113  P  1 41 820 10270 78896 290116 142884 1260
42  113  S  1 41 820 10325 82231 348066 439784 165856 1452
42  114  C  1 42 805 9338 67291 253302 426903 261606 29288
42  114  P  1 41 764 8574 58717 194585 232318 29288
42  114  S  1 41 769 8757 62743 243611 426603 271783 34172 96
42  115  C  1 42 805 8470 46690 128352 208936 234208 197904 129024 64064 23296
            5824 896 64
42  115  P  1 41 764 7706 38984 89368 119568 114640 83264 45760 18304 4992 832
            64
42  115  S  1 41 769 7985 44582 126966 210696 236016 198288 129088 64064 23296
            5824 896 64
42  116  C  1 42 421 2660 11970 40698 108528 222266 317618 258622 85750
42  116  P  1 41 380 2280 9690 31008 77520 144746 172872 85750
42  116  S  1 41 421 2661 11970 40698 108528 222266 317618 258622 85750
42  117  C  1 42 861 11410 95011 353872 425391 158964 3024
42  117  P  1 41 820 10590 84421 269451 155940 3024
42  117  S  1 41 820 10600 87018 335075 429975 178572 6474
42  118  C  1 42 777 8266 54915 226590 410845 286230 57750 3160
42  118  P  1 41 736 7530 47385 179205 231640 54590 3160
42  118  S  1 41 742 7752 50905 209965 400380 303370 72260 3160
42  119  C  1 42 861 11060 88518 342118 426446 170812 8462 256
42  119  P  1 41 820 10240 78278 263840 162606 8206 256
42  119  S  1 41 820 10300 81703 325563 431762 188126 10002 258
```

Table 2 (continued)

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n    #   T  Coset weights
-- ---- -  --------------------------------
42  120 C   1 42 717 5152 23856 81480 204316 333276 286650 104338 9748
42  120 P   1 41 676 4476 19380 62100 142216 191060 95590 8748
42  120 S   1 41 689 5069 23744 81424 204372 333389 286730 104366 8752
42  121 C   1 42 861 11060 84038 325346 422952 187410 16436 430
42  121 P   1 41 820 10240 73798 251549 171404 16006 430
42  121 S   1 41 820 10300 78007 309871 427576 203626 17884 450
42  122 C   1 42 861 11060 32400 496986 447226
42  122 P   1 41 805 9715 75005 362071 76650
42  122 S   1 41 820 10290 84301 447795 503436 1750
42  123 C   1 42 861 11200 37636 456316 471390 11130
42  123 P   1 41 820 10380 93476 310596 118686 288
42  123 S   1 41 820 10420 89349 425449 507214 15282
42  124 C   1 42 819 9618 70140 272749 445536 229848 19824
42  124 P   1 40 741 8124 53386 173120 210612 75616 2649
42  124 S   1 41 781 8985 64700 255860 440984 249480 27744
42  125 C   1 42 777 8186 53151 206094 427378 352947
42  125 P   1 41 736 7450 44295 145229 225694 100842
42  125 S   1 41 742 7669 49068 188813 395787 356034 50421
42  126 C   1 42 805 8456 45234 158046 328608 344088 163296
42  126 P   1 41 764 7692 37122 111264 182724 143856 40824
42  126 S   1 41 769 7989 43962 156510 330192 345816 163296
42  127 C   1 42 805 9338 68719 291928 536287 141036 420
42  127 P   1 41 764 8574 58789 205359 235332 15428
42  127 S   1 41 769 8757 63835 275145 536035 163441 552
42  128 C   1 42 861 11480 101416 518744 869492 518310 76806
42  128 P   1 41 820 10660 90756 427988 441504 76806
42  128 S   1 41 820 10660 92286 472036 860359 564447 95110 1392
42  129 C   1 42 777 8336 57540 268632 638913 712326 348825 59240 2520
42  129 P   1 41 736 7600 49940 218692 420221 292105 56720 2520
42  129 S   1 41 742 7812 53160 246232 610408 725131 381745 69360 2520
42  130 C   1 42 861 11480 99627 501830 915477 534580 32610 644
42  130 P   1 41 820 10660 88967 412863 502614 31966 644
42  130 S   1 41 820 10660 91275 463171 908200 573738 40280 966
42  131 C   1 42 717 6566 36921 142884 386121 663144 601356 235934 23460 6
42  131 P   1 41 676 5890 31031 111853 274268 388876 212480 23454 6
42  131 S   1 41 689 6285 35605 139217 380233 660489 607060 242528 24988 16
42  132 C   1 42 861 11480 95147 445214 877711 590596 74856 1244
42  132 P   1 41 820 10660 84487 360727 516984 73612 1244
42  132 S   1 41 820 10660 87579 417331 876632 618844 83544 1700
42  133 C   1 42 861 11480 103502 589828 944212 447226
42  133 P   1 41 820 10660 92842 496986 447226
42  133 S   1 41 820 10660 93982 532268 952002 505607 1771
42  134 C   1 42 861 11200 97636 498988 891460 537456 58618 890
42  134 P   1 41 820 10380 87256 411732 479728 57728 890
42  134 S   1 41 820 10420 89349 461453 892164 575696 66242 966
42  135 C   1 42 861 10438 79758 342888 718284 675384 249672 19824
42  135 P   1 41 820 9618 70140 272748 445536 229848 19824
42  135 S   1 41 820 9766 73687 320561 696844 690464 277224 27744
42  136 C   1 42 777 8186 53151 214998 522147 700350 472500 125000
42  136 P   1 41 736 7450 45701 169297 352850 347500 125000
42  136 S   1 41 742 7669 49068 197099 482382 672167 498883 171600 17500
42  137 C   1 42 805 8456 45234 161574 409556 669084 575484 209420 17496
42  137 P   1 41 764 7692 37542 124032 285524 383560 191924 17496
42  137 S   1 41 769 7989 43962 160026 409136 670648 577212 209852 17496
42  138 C   1 42 805 9338 68719 307510 759615 723950 219436 7736
42  138 P   1 41 764 8574 60145 247365 512250 211700 7736
42  138 S   1 41 769 8757 63835 288391 737699 741047 246272 10340
42  139 C   1 42 861 11074 96012 563059 1309343 116760
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Table 2 (continued)

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 n   ♦  T  Coset weights
-- ---- -  ------------------------------
42  139 P  1 41 820 10136 82922 428387 521358 4911
42  139 S  1 41 820 10311 87768 509666 1283448 20494. 156
42  140 C  1 42 861 11200 99666 567210 1191582 226254 336
42  140 P  1 41 820 10316 67244 428742 503154 18258
42  140 S  1 41 820 10420 90923 516389 1180740 297386 432
42  141 C  1 42 861 10500 76755 335027 807415 837879 28672
42  141 P  1 41 820 9400 61875 229892 336373 309982 192
42  141 S  1 41 820 9818 71278 310793 758458 831188 114755
42  142 C  1 42 861 11200 99666 540918 1157184 286944 336
42  142 P  1 41 820 10316 86482 398520 524508 27888
42  142 S  1 41 820 10420 90923 493835 1135496 364992 624
42  143 C  1 42 805 8456 44478 149730 352380 579096 618912 343224 28
42  143 P  1 41 764 7628 35846 107648 222576 310932 265080 98060
42  143 S  1 41 769 7989 43270 148550 352488 580424 620032 343512 76
42  144 C  1 42 861 11480 103502 634370 1467574 1421132 522627 30002 2584 126 3
42  144 P  1 41 820 10660 92842 541528 926046 495086 27541 2461 123 3
42  144 S  1 41 820 10660 93982 566289 1374633 1446810 624305 73185 3407 167 4
42  145 C  1 42 861 11480 106309 673778 1710807 1410072 279174 1780
42  145 P  1 41 820 10660 95649 578129 1132678 277394 360
42  145 S  1 41 820 10660 96701 607973 1651916 1476350 347714 2128
42  146 C  1 42 861 11090 93786 486528 1292614 1555812 709890 43680
42  146 P  1 41 820 10270 83516 403012 889602 666210 43680
42  146 S  1 41 820 10325 86039 447858 1229178 1553104 781114 85824
42  147 C  1 42 777 8336 57540 268632 843787 15701042 1195047 250000
42  147 P  1 41 736 7600 49940 218692 625095 945047 250000
42  147 S  1 41 742 7812 53160 246232 773911 1468115 1234338 374952 35000
42  148 C  1 42 805 9338 67291 287910 817335 1381022 1176728 418840 34992
42  148 P  1 41 764 8574 58717 229193 588142 792880 383848 34992
42  148 S  1 41 769 8757 62743 275243 800235 1384111 1198412 429000 34992
42  149 C  1 42 805 9338 68719 307510 759615 1080302 965356 600504 279104 95872
              23296 3584 256
42  149 P  1 41 764 8574 60145 247365 512250 568052 397304 203200 75904 19968
              3328 256
42  149 S  1 41 769 8757 63835 288391 737699 1088247 990656 612068 280640 96064
              23296 3584 256
42  150 C  1 42 861 11074 97328 595567 1757273 1490469 241689
42  150 P  1 41 820 10254 87074 508493 1248780 241689
42  150 S  1 41 820 10311 88972 539014 1677330 1547453 330029 333
42  151 C  1 42 861 11200 100422 593502 1636999 1491904 358869 504
42  151 P  1 41 820 10380 90042 503460 1133539 358365 504
42  151 S  1 41 820 10420 91615 539575 1569447 1544782 435269 2334
42  152 C  1 42 861 10500 79765 375683 1049132 1564606 967393 146321
42  152 P  1 41 820 9680 70085 305590 743534 821072 146321
42  152 S  1 41 820 9818 74032 349301 987279 1522155 1034924 215037 96
42  153 C  1 42 861 11200 100422 572754 1605268 1506730 390600 6426
42  153 P  1 41 820 10380 90042 482712 1122556 384174 6426
42  153 S  1 41 820 10420 91615 522247 1527716 1552786 477000 11658
42  154 C  1 42 805 8456 45234 161574 435288 891584 1272572 1035468 343252 28
42  154 P  1 41 764 7692 37542 124032 311256 580328 692244 343224 28
42  154 S  1 41 769 7989 43962 160026 434580 892288 1274108 1036732 343732 76
42  155 C  1 42 861 11410 105805 655564 2130318 1276947 13356
42  155 P  1 41 820 10590 94099 534813 1160994 295434 360
42  155 S  1 41 820 10600 96234 592292 2000926 1456432 36958
42  156 C  1 42 819 9828 80367 438858 1399317 1821840 437136 6048 48
42  156 P  1 40 741 8424 64363 317096 837127 767368 101848 144
42  156 S  1 41 781 9165 73481 397977 1295002 1833496 572296 11984 80
42  157 C  1 42 861 11060 93922 509418 1329216 1514568 719040 16176
42  157 P  1 41 820 10240 82554 400392 775248 642312 184424 1120
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Table 2 (continued)

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  n    #  T  Coset weights
 --  ----  -  --------------------------------
 42  157  S  1 41 820 10300 86039 466395 1299432 1559816 746808 24592
 42  158  C  1 42 861 11480 104387 631778 2093321 1321712 30722
 42  158  P  1 41 820 10660 93172 506759 1177844 306680 1176
 42  158  S  1 41 820 10660 95139 572657 1956692 1510837 47457
 42  159  C  1 42 717 5152 23856 91480 217224 465240 914002 1175726 1410864
 42  159  P  1 41 676 4476 19380 62100 155124 310116 503886 671840 369512
 42  159  S  1 41 689 5069 23744 91424 217280 465352 814082 1175754 1410868
 42  160  C  1 42 861 11074 97328 602882 2143295 3306480 1952216 273826 603
 42  160  P  1 41 820 10254 87074 515808 1627487 1678993 273223 603
 42  160  S  1 41 920 10311 88972 544637 1984545 3256923 2118310 382392 1656
 42  161  C  1 42 861 11480 109095 738822 2791419 3431864 1292928 12096
 42  161  P  1 41 820 10660 98435 640387 2151032 1280832 12096
 42  161  S  1 41 820 10660 98967 660843 2578484 3492796 1516032 29964
 42  162  C  1 42 861 11074 95242 530600 1763175 3107022 2334451 545566 574
 42  162  P  1 41 820 10254 84988 445612 1317563 1789459 544992 574
 42  162  S  1 41 820 10311 87276 484470 1627248 2971053 2472859 728429 6100
 42  163  C  1 42 861 11480 109095 723702 2706411 3430100 1377936 28980
 42  163  P  1 41 820 10660 98435 625267 2081144 1348956 28980
 42  163  S  1 41 820 10660 98967 648735 2499608 3479792 1594908 55076
 42  164  C  1 42 805 9338 67291 287910 843067 1783014 2574460 2110360 708680
                3640
 42  164  P  1 41 764 8574 58717 229193 613874 1169140 1405320 705040 3640
 42  164  S  1 41 769 8757 62743 275243 825679 1772955 2582416 2131268 722696
                6040
 42  165  C  1 42 861 11480 103502 589828 2018638 2959438 1977066 625380 93849
                8127 387 9
 42  165  P  1 41 820 10660 92842 496986 1521652 1437786 539280 86100 7749 378 9
 42  165  S  1 41 820 10660 93982 532268 1834565 2915063 2160494 727653 104055
                8610 387 9
 42  166  C  1 42 861 11410 105805 671146 2478967 3461226 1608670 50480
 42  166  P  1 41 820 10590 95215 575931 1903036 1558190 50480
 42  166  S  1 41 820 10600 96234 604926 2284039 3480767 1813180 97970 30
 42  167  C  1 42 861 10648 90195 519225 1838175 3221157 2258976 443184 6096 48
 42  167  P  1 41 820 9828 80367 438858 1399317 1821040 437136 6048 48
 42  167  S  1 41 820 9946 82648 471459 1692979 3120498 2405792 504280 12064 80
 42  168  C  1 42 777 8336 57540 260632 871284 1995504 3264702 1921790
 42  168  P  1 41 736 7600 49940 218692 652592 1342912 1921790
 42  168  S  1 41 742 7812 53160 246232 798972 1849124 3091074 2091095 250355
 42  169  C  1 42 861 11060 93922 520506 1582952 2752560 2433816 910136 82752
 42  169  P  1 41 820 10240 83682 436824 1146128 1606432 827384 82752
 42  169  S  1 41 820 10300 86099 476235 1521568 2753048 2496344 953080 89472
 42  170  C  1 42 861 11480 104387 638918 2420935 3468632 1660120 75232
 42  170  P  1 41 820 10660 93727 545191 1875744 1592880 75232
 42  170  S  1 41 820 10660 95139 578571 2224452 3488516 1873892 116516
 42  171  C  1 42 861 11480 110516 789481 3696430 3715306 64491
 42  171  P  1 41 820 10660 99301 676980 2375013 1030678 810
 42  171  S  1 41 820 10660 100120 700663 3304224 4093116 178603 360
 42  172  C  1 42 861 11200 100422 622314 2361450 3547302 1668744 76272
 42  172  P  1 41 820 10380 89676 513522 1579290 1552614 441432 6528
 42  172  S  1 41 820 10420 91615 561985 2170184 3615150 1824392 114000
 42  173  C  1 42 861 11270 101353 597758 2078527 3585078 2004814 8904
 42  173  P  1 41 820 10450 88947 472361 1374200 1780870 466614
 42  173  S  1 41 820 10480 92476 541722 1907376 3448528 2266827 120337
 42  174  C  1 42 861 11200 100422 616770 2274804 3465948 1837416 81144
 42  174  P  1 41 820 10380 88914 501384 1550964 1546800 484248 10752
 42  174  S  1 41 820 10420 91615 556591 2088644 3509532 2005160 125784
 42  175  C  1 42 805 8456 45234 161574 435288 932760 1630020 2352420 2021980 28
 42  175  P  1 41 764 7692 37542 124032 311256 621504 1008516 1343904 739052
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Table 2 (continued)

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 n    e  T   Coset weights
 --   --- -   ------------------------------
 42   175 S   1 41 769 7989 43962 160026 434580 933432 1631460 2353620 2822940 100
 42   176 C   1 42 061 11400 100430 742020 3259979 6099766 4990325 730206 21112 6
 42   176 P   1 41 020 10660 97770 644250 2615721 4204045 714100 21106 6
 42   176 S   1 41 020 10660 98424 662392 2941696 6710378 5324395 1009131 22872 6
 42   177 C   1 42 061 11090 98616 615762 2550160 5773374 5660250 1987024 98706
                  516 6
 42   177 P   1 41 020 10270 88346 527416 2022744 3750630 1089628 90196 510 6
 42   177 S   1 41 020 10325 90060 555847 2311139 5459625 5017506 2362024 169076
                  746 6
 42   178 C   1 42 061 11400 105031 667254 2755939 5592024 5291216 2115440 235540
                  1560 12
 42   178 P   1 41 020 10660 94371 572803 2103056 3409760 1001440 234000 1560 12
 42   178 S   1 41 020 10660 95671 600047 2492036 5447300 5520776 2327064 270400
                  1096 16
 42   179 C   1 42 061 11400 104307 636918 2420935 4638080 4620600 2702264 1147600
                  303400 93104 14336 1024
 42   179 P   1 41 020 10660 93727 545191 1075744 2762336 1050272 043992 303616
                  79072 13312 1024
 42   179 S   1 41 020 10660 95139 570571 2224452 4523632 4800260 2076776 1165720
                  304592 93104 14336 1024
 42   180 C   1 42 061 11400 110516 796621 3865150 7309627 4412072 270038
 42   180 P   1 41 020 10660 99856 696765 3160393 4141234 270038
 42   180 S   1 41 020 10660 100120 706577 3442878 7191646 4843829 479604 960
 42   181 C   1 42 061 11200 100422 627058 2580235 5501404 5504793 2167936 202296
                  160
 42   181 P   1 41 020 10300 90042 537016 2042419 3530905 1965800 202120 168
 42   181 S   1 41 020 10420 91615 566431 2347995 5405915 5709025 2405521 230352
                  280
 42   182 C   1 42 061 11270 101353 621270 2445642 5511052 5016433 2244138 24310
                  20
 42   182 P   1 41 020 10450 90903 530375 1915267 3596505 2219040 24290 20
 42   182 S   1 41 020 10480 92476 561380 2220057 5155095 5800140 2661540 194314
                  56
 42   183 C   1 42 061 11200 100422 627058 2540692 5419452 5529352 2329088 217000
                  160
 42   183 P   1 41 020 10300 90042 537016 2002076 3416576 2112976 216912 160
 42   183 S   1 41 020 10420 91615 566431 2320620 5261292 5717576 2550160 257976
                  264
 42   184 C   1 42 061 11400 111720 833026 4496506 9732303 1590477
 42   184 P   1 41 020 10650 100625 721031 3361713 4059037 133000
 42   184 S   1 41 020 10660 101095 736137 3939930 9536123 2455599 010
 42   185 C   1 42 061 11200 99466 606102 2363760 4980016 5614560 3097472 23836
 42   185 P   1 41 020 10316 87610 496024 1720660 2706592 2607224 076224 2200
 42   185 S   1 41 020 10420 90923 546923 2152224 4035640 5797312 3206000 96064
 42   186 C   1 42 061 11270 103303 660010 2702654 6390169 6150522 710304
 42   186 P   1 41 020 10306 90891 542405 1965004 3540026 2181090 40904
 42   186 S   1 41 020 10400 94050 599000 2510543 5962669 6327264 1269664 2576
 42   187 C   1 42 005 9330 73143 406510 1622159 4131330 5977160 3990200 566440
 42   187 P   1 41 764 8564 64119 333059 1202320 2560520 2904700 1202600 23000
 42   187 S   1 41 769 8757 67622 372670 1406706 3096070 5940060 4207200 716440
 42   188 C   1 42 061 11400 110516 803936 4002044 11526500 12435122 4433690
                  147040 1560 24
 42   188 P   1 41 020 10660 99856 704000 3378764 8147736 4207306 146304 1544 24
 42   188 S   1 41 020 10660 100120 712200 3607119 10695953 12764282 5356371
                  302042 1991 32
 42   189 C   1 42 061 11400 109095 750310 3675057 10456072 12530650 5550176
                  461564 336
 42   189 P   1 41 020 10660 99439 659075 3015102 7441690 5088960 461200 336
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Table 2 (continued)

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n    #   T  Coset weights
--  ---  -  ------------------------------
42  189  S  1 41 820 10660 98967 675855 3268530 9642404 12731066 6447064 677032
                1112
42  190  C  1 42 861 11400 108430 742020 3404002 9000104 12965561 6223506 218201
                56
42  190  P  1 41 820 10660 97770 644258 2039024 6960200 6005201 210229 56
42  190  S  1 41 820 10660 98424 662392 3096918 8936876 12810737 7167116 770316
                131
42  191  C  1 42 861 11480 109095 750310 3657291 10253592 12507516 5753456
                582452 336
42  191  P  1 41 820 10660 98435 659075 2997416 7256176 5251340 502116 336
42  191  S  1 41 820 10660 98967 675855 3257596 9496908 12690100 6591916 729732
                1836
42  192  C  1 42 861 11480 111930 862814 4696062 13404224 11967058 2510696 504
42  192  P  1 41 820 10660 101270 741548 3954518 9463706 2510152 504
42  192  S  1 41 820 10660 101270 743404 4093993 12480038 12572354 3843073 8778
42  193  C  1 42 861 11074 97328 602802 2630073 7424215 11757109 8536535 2291044
                202468
42  193  P  1 41 820 10254 87074 515808 2115065 5309150 6447959 2000876 202468
42  193  S  1 41 820 10311 88972 544637 2372542 6817055 11315633 9077024 2998840
                327340
42  194  C  1 42 861 11200 100422 627858 2651292 6031238 10071096 9201342
                3152744 25536
42  194  P  1 41 820 10380 90042 537016 2113476 4717762 6154134 3127200 25536
42  194  S  1 41 820 10420 91615 566431 2406452 6512210 10071120 9632050 3407200
                56064
42  195  C  1 42 861 10640 89059 535521 2240155 6396705 11130040 9437400 3307500
                396900
42  195  P  1 41 820 9820 80031 455490 1792665 4604040 6526000 2910600 396900
42  195  S  1 41 820 9946 82350 483829 2017072 5785710 10452015 9073990 4224180
                623700
42  196  C  1 42 861 11270 104139 695050 3185026 8791336 12608757 7279342 877632
                168
42  196  P  1 41 820 10450 93689 601369 2584457 6206079 6401070 877464 168
42  196  S  1 41 820 10480 94742 622720 2857889 8125991 12358510 8013720 1465246
                4256
42  197  C  1 42 805 9338 73353 413994 1739801 5063878 9570066 10480344 5380130
                809620 5040
42  197  P  1 41 764 8574 64779 349215 1390586 3673292 5904794 4575550 804580
                5040
42  197  S  1 41 769 8757 67797 378921 1585637 4704393 9231802 10653154 5882210
                1031950 9000
42  198  C  1 42 861 11480 110516 789481 4117462 13507480 13851411 1100610 61992
                3024 72
42  198  P  1 41 820 10660 99301 676980 3204163 8393336 4258890 128920 4032 72
42  198  S  1 41 820 10660 100120 700663 3614725 12121230 15024774 1911771 66531
                3024 72
42  199  C  1 42 861 11410 108591 768054 3905121 12141072 14371644 2234820 12768
                48
42  199  P  1 41 820 10590 97635 656631 3024726 7436064 5204600 345620 480
42  199  S  1 41 820 10600 98500 682874 3444252 11013332 14841242 3433698 28992
                80
42  200  C  1 42 861 11480 108430 734888 3475438 10560648 16536583 2125809 252
42  200  P  1 41 820 10660 97215 624473 2673380 6646432 6556102 168012
42  200  S  1 41 820 10660 98424 656478 3087112 9491085 15744960 4420639 44212
42  201  C  1 42 861 11410 108591 768054 3863310 11818491 14388360 2569728 25248
                336
42  201  P  1 41 820 10590 97635 660309 3033018 7302050 5306032 365760 960
42  201  S  1 41 820 10600 98500 682874 3412056 10755770 14766002 3772040 55168
                560
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Table 2 (continued)

n	#	T	Coset weights
42	202	C	1 42 861 11060 93922 520506 1675968 3760792 6619200 9502120 11339664
			22200
42	202	P	1 41 820 10240 83682 436824 1239144 2529648 4089582 5412576 2972920
			1760
42	202	S	1 41 820 10300 86099 476235 1606648 3735024 6641248 9553952 11389936
			58128
42	203	C	1 42 861 11480 111930 845460 4871832 17936284 27411468 14760326
			1150340 840
42	203	P	1 41 820 10660 101270 744190 4127642 13806642 13602026 1157800 840
42	203	S	1 41 820 10660 101270 745420 4222800 15939921 27154669 16054306
			2074872 3804
42	204	C	1 42 861 11480 109095 758310 3750307 12310748 22289960 20210492
			7404208 255360
42	204	P	1 41 820 10660 98435 659075 3090432 9220316 13069644 7100048 255360
42	204	S	1 41 820 10660 98967 675855 3324916 11123600 21666256 21294756
			8463472 449520
42	205	C	1 42 861 11480 111216 816312 4376737 14776666 25649001 17900800
			3416616 1344
42	205	P	1 41 820 10660 100556 715754 3660901 11115685 14533316 3415272 1344
42	205	S	1 41 820 10660 100690 722432 3836507 12277850 24537300 19803625
			5079034 40024
42	206	C	1 42 805 9330 73353 413994 1739801 5463530 12409474 18900360
			17478454 8543808 1848448 143360 4096
42	206	P	1 41 764 8574 64779 349215 1390506 4072944 8336530 10643830 6834624
			1709104 139264 4096
42	206	S	1 41 769 8757 67797 370921 1585637 5005097 11592910 18429548
			18020534 9544164 2274680 187904 4096
42	207	C	1 42 861 11480 110816 796621 4286190 15806240 27303671 16794751
			1770097 65226 3096 72
42	207	P	1 41 820 10660 99056 696765 3589425 12296815 15086856 1707895 62202
			3024 72
42	207	S	1 41 820 10660 100120 706577 3753379 14058216 26750454 18706305
			2938559 72401 3099 72
42	208	C	1 42 861 11410 108591 773590 4093729 14614368 26444250 18137407
			2906952 17607 48
42	208	P	1 41 820 10590 98001 675597 3418132 11196236 15248014 2889393 17559
			48
42	208	S	1 41 820 10600 98500 687320 3593767 13005703 25456018 19810931
			4404444 39037 82
42	209	C	1 42 861 11480 108430 742028 3644166 12362076 27091029 20437644
			2709945 1162
42	209	P	1 41 820 10660 97770 644258 2999908 9362168 17728861 2700703 1162
42	209	S	1 41 820 10660 98424 662392 3225766 10995936 24004735 21814630
			5424686 70765
42	210	C	1 42 861 11410 108591 773590 4019431 13815318 25654020 18082112
			3769176 71904 2352 48
42	210	P	1 41 820 10590 98001 675597 3343834 10471484 15182536 3699576 69600
			2304 48
42	210	S	1 41 820 10600 98500 687320 3534733 12340441 25491686 20338362
			5424900 177588 3792 80
42	211	C	1 42 861 11480 111930 846258 4996348 19672383 31060402 9556155 53004
42	211	P	1 41 820 10660 101165 741733 4085571 13232946 13554105 1827126 264
42	211	S	1 41 820 10660 101270 745996 4312934 17231564 31644860 12816602
			244116
42	212	C	1 42 861 11480 110516 796796 4280363 15143156 27565979 17539550
			1643656 16464
42	212	P	1 41 820 10660 99301 684295 3383870 10157952 13938736 5116468 161952
			336

Table 2 (continued)

42 212 S 1 41 820 10660 100120 706286 3739350 13441440 26418747 28006106
                  2002565 25640

42 213 C 1 42 061 11200 100422 627858 2651292 7043508 13275360 19479182
                  23266496 672672

42 213 P 1 41 820 10300 90042 537016 2113476 4930032 8345320 11133024 6301152
                  91520

42 213 S 1 41 820 10420 91615 566431 2406452 6690180 13093064 19868216
                  23499640 1185184

42 214 C 1 42 019 9820 81001 486406 2189187 7500636 19045026 20336308 9459450
42 214 P 1 40 741 8424 68637 370656 1563705 4986696 11305334 13111098 2102100
42 214 S 1 41 701 9165 74061 436293 1934361 6564129 16762746 27093066
                  14234220

42 215 C 1 42 061 11270 104139 706018 3512908 12048123 24637494 21800824
                  4103536 22048

42 215 P 1 41 820 10450 93323 603305 2773356 8330160 13549768 7734002 459006
42 215 S 1 41 820 10400 94742 631720 3112685 10787609 23123106 23260900
                  5990720 79944

42 216 C 1 42 005 9330 73353 413994 1739001 5247126 11499600 18945700
                  24230368 4599616 340410 630

42 216 P 1 41 764 8574 64779 349215 1390586 3856540 7643060 11302720 7892112
                  1001400 44640

42 216 S 1 41 769 8757 67797 378921 1585637 4851081 10900356 18449160
                  24176400 6201896 484890 3150

42 217 C 1 42 061 11480 110516 803936 4503876 19462946 48428506 48920660
                  13996760 906632 68272 3168 72

42 217 P 1 41 820 10660 99856 704080 3799796 15663150 32765360 13155304
                  841456 65176 3096 72

42 217 S 1 41 820 10660 100120 712200 3917620 16734001 44262063 48271590
                  18730109 1376186 89235 4178 96

42 218 C 1 42 061 11480 111216 826560 4740643 19724466 46845039 46157918
                  15402672 388398 432

42 218 P 1 41 820 10660 100556 726004 4022639 15701027 31143212 15014706
                  307966 432

42 218 S 1 41 820 10660 100690 730274 4117286 17124038 43221565 48202923
                  19667762 1040928 740

42 219 C 1 42 061 11480 108430 742028 3644166 12362076 27091029 35615124
                  28006013 16160858 6990992 2150232 460348 66680 6216 336 8

42 219 P 1 41 820 10660 97770 644258 2999908 9362168 17728861 17806263
                  10920550 5240308 1750684 399540 60800 5088 320 8

42 219 S 1 41 820 10660 98424 662392 3225766 10995936 24004735 34793458
                  30115774 17809693 8213044 2734332 639876 101736 10408 616 16

42 220 C 1 42 061 11480 111216 826560 4681359 18859350 45032067 46270400
                  17274612 1140936 8748 96

42 220 P 1 41 820 10660 100556 726004 3955355 14903995 30128072 16142328
                  1132284 8652 96

42 220 S 1 41 820 10660 100690 730274 4068354 16451170 41446985 48040657
                  21472658 1875866 19356 196

42 221 C 1 42 061 11480 111930 848022 5054196 21632733 49589274 44500331
                  12352602 116256

42 221 P 1 41 820 10660 101270 746752 4307444 17325289 32263905 12236346
                  116256

42 221 S 1 41 820 10660 101270 747382 4357218 18686498 46167477 47221903
                  16402078 442380

42 222 C 1 42 061 11480 110516 803936 4449091 17557844 42032487 46807331
                  20480628 1847447 35280 784

42 222 P 1 41 820 10660 99856 704080 3745011 13812833 28219654 18667677
                  1012951 34496 784

42 222 S 1 41 820 10660 100120 712200 3878004 15367398 38634602 48103968
                  24447941 2913813 47376 784

Table 2 (continued)

42	223	C	1 42 861 10648 90909 567567 2675673 9609023 26545662 47301336
			37795750 9459450
42	223	P	1 41 820 9828 81001 486406 2189187 7500636 19045026 20336300 9459450
42	223	S	1 41 820 9946 83228 510355 2370654 8490490 23326075 43005012
			41327206 14234220
42	224	C	1 42 861 11270 104139 712362 3665907 13811766 34420890 46913630
			28796022 5659416 121044 378
42	224	P	1 41 820 10450 93609 610673 3047234 10764832 23656350 23257272
			5530750 120666 378
42	224	S	1 41 820 10400 94742 636174 3234000 12207600 31396269 46322170
			32116004 7931837 266228 546
42	225	C	1 42 861 11400 111720 840546 4936076 20974004 50725206 50613360
			6007424 16120
42	225	P	1 41 820 10650 100730 732956 4070018 15126764 28531004 18116152
			410040
42	225	S	1 41 820 10660 101095 741327 4263330 18023168 46382142 53206062
			11439994 48208
42	226	C	1 42 861 11410 109095 784770 4198026 15947379 39764008 52287904
			19916316 1197756
42	226	P	1 41 820 10500 97809 670417 3336192 11410194 24106480 22895082
			4503516 77724
42	226	S	1 41 820 10600 98905 696207 3674056 13977428 35725140 51390790
			26246000 2380132
42	227	C	1 42 861 11270 103303 690606 3307223 11907850 29183020 43917720
			32467008 11063808 1404920
42	227	P	1 41 820 10306 91257 576625 2629886 8454404 18011364 22216200
			12270304 2696960 150520
42	227	S	1 41 820 10400 94050 616666 2985556 10532956 26033693 41393709
			35715512 14505732 2235960 12544
42	228	C	1 42 861 11400 111930 850668 5143278 23990512 72561916 103609326
			56393439 3747700 6303
42	228	P	1 41 820 10660 101270 749398 4393800 19604632 52957204 50652042
			5741397 6303
42	228	S	1 41 820 10660 101270 749398 4423074 20387490 63033360 102375606
			65011976 10694291 47227 162
42	229	C	1 42 861 11400 110516 803936 4449091 18242720 51163273 85145244
			72671746 29486646 5804715 527646 17525 14
42	229	P	1 41 820 10660 99856 704080 3745011 14497709 36665564 48479600
			24192066 5294500 510135 17511 14
42	229	S	1 41 820 10660 100120 712200 3878004 15851633 45469105 80975685
			77250945 36011510 7490554 655972 20179 27
42	230	C	1 42 861 11090 99330 651336 3229633 12357792 36469750 77029000
			90412395 44160460 4005750
42	230	P	1 41 820 10270 89060 562276 2667357 9690435 26779323 50249685
			40162710 4005750
42	230	S	1 41 820 10325 90640 584507 2860093 10842944 31962034 69334089
			90715740 53445022 8507600
42	231	C	1 42 861 11400 111216 826560 4773595 20944286 61947165 98519920
			67131672 13914684 253218 756
42	231	P	1 41 820 10660 100556 726004 4047591 16896695 45050470 53469450
			13662222 252462 756
42	231	S	1 41 820 10660 100690 730274 4134847 17996263 54633217 94076431
			74697157 20602667 650996 1392
42	232	C	1 42 861 11400 111930 848022 5079928 22929152 67494896 103326216
			61484416 7102016 45696
42	232	P	1 41 820 10660 101270 746752 4333176 18595976 48898920 54427296
			7057120 45696
42	232	S	1 41 820 10660 101270 747382 4375612 19596372 59756465 100486417
			69081032 13376856 102528

Table 2 (continued)

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 n    #  T  Coset weights
--  ----  -  -------------------------------
42   233 C  1 42 861 11410 109305 797538 4459273 18450370 52650256 90008100
            75483828 24950260 1506204
42   233 P  1 41 820 10590 98715 698823 3760450 14689920 37968336 52039764
            23444064 1506204
42   233 S  1 41 820 10600 99080 706534 3884116 16012453 46599549 84082372
            80559942 32602272 3074220 3456
42   234 C  1 42 861 11270 104139 712362 3689623 14373388 40450088 73703007
            77430192 44012731 12542824 1404928
42   234 P  1 41 820 10450 93689 618673 3070950 11302438 29147650 44555357
            32874835 11137896 1404928
42   234 S  1 41 820 10480 94742 636174 3251124 12598202 35755461 67832380
            78171380 50890175 16931656 2250276 12544
42   235 C  1 42 861 11930 846258 5092402 24050424 80002146 123303705
            34796580 219009 618
42   235 P  1 41 820 10660 101165 741733 4280004 18046591 52596283 51999419
            5639220 1783
42   235 S  1 41 820 10660 101270 745996 4381636 20365321 68026653 121276660
            51573173 1152555 662
42   236 C  1 42 861 11410 108591 773598 4130031 16079622 43694868 78601040
            101149440 23669184 216720 48
42   236 P  1 41 820 10590 98001 675597 3454434 12625188 31069680 47531360
            34377696 4354976 19344
42   236 S  1 41 820 10600 98500 687320 3620565 14097041 39175170 74845878
            101673632 33391072 834512 304
42   237 C  1 42 861 11480 111216 824796 4770580 21152592 67219551 115437907
            56611218 2294376 756
42   237 P  1 41 820 10660 100451 720985 3980190 16340320 44572422 55059270
            13316728 115820 12
42   237 S  1 41 820 10660 100690 728888 4130206 18113242 58154261 109297935
            71697518 6187666 13528
42   238 C  1 42 861 11480 109791 783006 4211571 16482192 44321424 78700656
            100659552 21790720 1361640 2520
42   238 P  1 41 820 10660 99131 683875 3527696 12954496 31366928 47333728
            33622912 4438880 178560
42   238 S  1 41 820 10660 99535 695447 3685892 14436708 39876568 75301176
            101359456 31001568 1954984 12600
43     1 C  1 43 903 9331 6106
43     1 P  1 42 861 6090 1190
43     1 S  1 42 861 8890 6509 1
43     2 C  1 43 903 9331 15437 7009 43 1
43     2 P  1 42 861 8470 6967 42 1
43     2 S  1 42 861 8890 15479 7451 43 1
43     3 C  1 43 903 12341 123410 962598 6096454 31123916 106067799 115717343
            8329659 989
43     3 P  1 42 861 11480 111930 850668 5203744 24575808 65660574 37223051
            578768 1
43     3 S  1 42 861 11480 111930 850668 5245786 26223356 91818475 125757104
            18401994 13678 1
44     1 C  1 44 223 660 1320 1848 1848 1320 660 220 44 4
44     1 P  1 43 180 480 840 1008 840 480 180 40 4
44     1 S  1 43 223 661 1320 1848 1848 1320 660 220 44 4
44     2 C  1 44 391 1364 2696 3696 3696 2640 1320 440 88 8
44     2 P  1 43 348 1016 1680 2016 1680 960 360 80 8
44     2 S  1 43 391 1365 2696 3696 3696 2640 1320 440 88 8
45     1 C  1 45 519 459
45     1 P  1 44 314 153
45     1 S  1 44 513 466
45     2 C  1 45 406 545 21
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Table 2 (continued)

n	#	T	Coset weights
45	2	P	1 44 278 189
45	2	S	1 44 406 546 27
45	3	C	1 45 519 978 504 1
45	3	P	1 44 475 503 1
45	3	S	1 44 513 979 510 1
45	4	C	1 45 406 915 617 64
45	4	P	1 44 362 553 64
45	4	S	1 44 406 916 617 64
45	5	C	1 45 675 3375
45	5	P	1 37 435 1575
45	5	S	1 44 646 3180 225
45	6	C	1 45 519 1440 2088 3
45	6	P	1 44 475 965 563
45	6	S	1 44 513 1441 2094 3
45	7	C	1 45 406 1350 2201 93
45	7	P	1 44 362 988 653
45	7	S	1 44 406 1351 2201 93
45	8	C	1 45 720 4051 3375
45	8	P	1 44 676 3375
45	8	S	1 44 690 3827 3405 225
45	9	C	1 45 519 1440 2088 2019 1344 576 144 16
45	9	P	1 44 475 965 1123 896 448 128 16
45	9	S	1 44 513 1441 2094 2019 1344 576 144 16
45	10	C	1 45 406 1350 2201 2109 1344 576 144 16
45	10	P	1 44 362 988 1213 896 448 128 16
45	10	S	1 44 406 1351 2201 2109 1344 576 144 16
45	11	C	1 45 720 4728 10890
45	11	P	1 44 676 4052 3419
45	11	S	1 44 690 4474 10468 707
45	12	C	1 45 804 7260 8237 37
45	12	P	1 44 748 5186 2213
45	12	S	1 44 774 6950 8545 70
45	13	C	1 45 804 6162 9042 330
45	13	P	1 44 748 4376 2993 30
45	13	S	1 44 774 5977 9218 370
45	14	C	1 45 720 4728 10890 10890 4728 720 45 1
45	14	P	1 44 676 4052 6838 4052 676 44 1
45	14	S	1 44 690 4474 10468 10890 5150 974 75 2
45	15	C	1 45 804 7380 15407 8959 172
45	15	P	1 44 760 6620 8787 172
45	15	S	1 44 774 7070 15413 9270 196
45	16	C	1 45 804 6282 14952 10057 627
45	16	P	1 44 760 5522 9430 627
45	16	S	1 44 774 6097 14940 10243 661
45	17	C	1 45 990 11175 46845 6480
45	17	P	1 44 928 8665 22914 216
45	17	S	1 44 946 10590 44946 9009
45	18	C	1 45 990 10635 43065 10800
45	18	P	1 44 928 8257 22062 1476
45	18	S	1 44 946 10122 41590 12025
45	19	C	1 45 990 11175 46845 6480
45	19	P	1 44 928 8665 22914 216
45	19	S	1 44 946 10590 44946 9009
45	20	C	1 45 804 7380 29942 24867 2467 30
45	20	P	1 44 760 6620 18089 6267 187
45	20	S	1 44 774 7070 29282 25671 2664 30
45	21	C	1 45 804 6282 23232 26322 8658 192
45	21	P	1 44 760 5522 14513 10710 1206 12

Table 2 (continued)

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 n   #  T  Coset weights
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45   21 S  1 44 771 6097 22920 26540 8948 206
45   22 C  1 45 990 11445 54690 54046 9855
45   22 P  1 44 946 10499 44191 9855
45   22 S  1 44 946 10848 52430 54644 12159
45   23 C  1 45 990 10905 50370 54586 14175
45   23 P  1 44 946 9959 40411 14175
45   23 S  1 44 946 10380 48614 55112 15975
45   24 C  1 45 990 11445 54690 54046 9855
45   24 P  1 44 946 10499 44191 9855
45   24 S  1 44 946 10848 52430 54644 12159
45   25 C  1 45 804 7380 29942 46377 32392 11478 2397 256
45   25 P  1 44 760 6620 23322 23055 9337 2141 256
45   25 S  1 44 774 7070 29282 46532 33082 11634 2397 256
45   26 C  1 45 804 6282 23232 42324 37950 16629 3549 256
45   26 P  1 44 760 5522 17710 24614 13336 3293 256
45   26 S  1 44 774 6097 22920 42310 38292 16829 3549 256
45   27 C  1 45 990 13500 93570 154038
45   27 P  1 44 946 12554 68895 48632
45   27 S  1 44 946 12632 87194 158792 2535
45   28 C  1 45 810 7434 36720 93960 103302 18630 1215 27
45   28 P  1 43 723 5991 25413 52173 41589 4977 162
45   28 S  1 44 781 7149 35679 93201 105147 18891 1224 27
45   29 C  1 45 990 13500 92355 145263 9990
45   29 P  1 44 946 12554 68376 48566 585
45   29 S  1 44 946 12632 85913 149474 13134
45   30 C  1 45 990 13500 93570 154038
45   30 P  1 44 946 12554 68895 48632
45   30 S  1 44 946 12632 87194 158792 2535
45   31 C  1 45 804 7260 35022 87870 98932 28860 3225 125
45   31 P  1 44 748 6164 25486 50516 40028 7660 425
45   31 S  1 44 774 6950 33752 86182 99802 30834 3655 150
45   32 C  1 45 990 13500 93570 236388 166863 12195 720 16
45   32 P  1 44 946 12554 81016 155372 11491 704 16
45   32 S  1 44 946 12632 87194 232532 17286. 16904 1200 32
45   33 C  1 45 855 8245 44154 130680 197262 121932 19845 1242 27
45   33 P  1 44 811 7434 36720 93960 103302 18630 1215 27
45   33 S  1 44 823 7931 42830 128880 198348 124038 20115 1251 27
45   34 C  1 45 990 13500 92355 220053 166998 28530 1800 16
45   34 P  1 44 946 12554 79801 140252 26746 1784 16
45   34 S  1 44 946 12632 85913 216458 173004 32970 2280 32
45   35 C  1 45 990 13500 93570 236388 166863 12195 720 16
45   35 P  1 44 946 12554 81016 155372 11491 704 16
45   35 S  1 44 946 12632 87194 232532 172803 16904 1200 32
45   36 C  1 45 804 7380 38682 121525 190042 129817 32490 3377 125
45   36 P  1 44 760 6620 32062 89463 100579 29238 3252 125
45   36 S  1 44 774 7070 37332 118627 189002 132571 34885 3832 150
45   37 C  1 45 990 13230 116100 567180 351030
45   37 P  1 44 928 11740 95077 339262 77236
45   37 S  1 44 946 12374 106576 525786 401577 1272
45   38 C  1 45 990 13230 116100 506160 412050
45   38 P  1 44 928 11740 94297 298450 118828
45   38 S  1 44 946 12374 106576 474846 446061 7728
45   39 C  1 45 855 8922 55719 202095 390735 329319 57132 3672 81
45   39 P  1 44 811 8111 46901 144981 209823 102087 11178 351
45   39 S  1 44 823 8518 53163 195749 389199 338835 58446 3717 81
45   40 C  1 45 990 13230 116100 567180 351030
45   40 P  1 44 928 11740 95077 339262 77236
45   40 S  1 44 946 12374 106576 525786 401577 1272
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Table 2 (continued)

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 n     #   T   Coset weights
--   ----  -   -------------------------------
45    41  C   1 45 804 7380 38682 127002 278752 427272 148410 19358 870
45    41  P   1 44 760 6620 32062 94940 183812 164396 38536 3062 55
45    41  S   1 44 774 7070 37332 124074 275654 426646 154854 21134 993
45    42  C   1 45 990 13500 124650 676846 922935 358185
45    42  P   1 44 946 12554 112096 564750 358185
45    42  S   1 44 946 12632 114584 626127 931737 409773 1308
45    43  C   1 45 990 13500 124650 612721 922935 422310
45    43  P   1 44 946 12554 112096 500625 422310
45    43  S   1 44 946 12632 114584 572703 924669 463197 8376
45    44  C   1 45 855 8922 55719 212985 490908 654327 477837 170974 23229 1323 27
45    44  P   1 44 811 8111 47608 165377 325531 328796 149041 21933 1296 27
45    44  S   1 44 823 8518 53163 204518 477374 648498 488143 185078 29027 1920 45
45    45  C   1 45 990 13500 124650 676846 922935 358185
45    45  P   1 44 946 12554 112096 564750 358185
45    45  S   1 44 946 12632 114584 626127 931737 409773 1308
45    46  C   1 45 804 7380 38682 127002 278752 427272 470925 380193 226788 99660
                 31664 6960 960 64
45    46  P   1 44 760 6620 32062 94940 183812 243460 227465 152728 74060 25600
                 6064 896 64
45    46  S   1 44 774 7070 37332 124074 275654 426646 473259 383298 228772 100404
                 31824 6976 960 64
45    47  C   1 45 990 14190 140310 823554 2100222 1095120 19440 432
45    47  P   1 44 946 13174 120657 605568 1091370 262800 2592
45    47  S   1 44 946 13244 120521 754340 2020306 1245186 31204 432
45    48  C   1 45 990 13500 124650 789708 2339010 919890 6510
45    48  P   1 44 946 12554 111263 619566 1103908 168722 140
45    48  S   1 44 946 12632 114584 718620 2248121 1088277 11069 2
45    49  C   1 45 990 13500 124650 777828 2113695 1133865 29730
45    49  P   1 44 946 12554 110403 607890 1126152 230226 856
45    49  S   1 44 946 12632 114584 708992 2035184 1201405 40514 2
45    50  C   1 45 990 14045 133155 762814 1981152 1274130 27540 432
45    50  P   1 44 946 12897 114448 575766 1052454 337626 2970
45    50  S   1 44 946 13118 122453 702416 1925634 1380274 40906 432
45    51  C   1 45 990 14190 140310 823554 2100222 1095120 19440 432
45    51  P   1 44 946 13174 120657 605568 1091370 262800 2592
45    51  S   1 44 946 13244 120521 754340 2020306 1245186 31204 432
45    52  C   1 45 990 13500 124650 789708 2339010 919890 6510
45    52  P   1 44 946 12554 111263 619566 1103908 168722 140
45    52  S   1 44 946 12632 114584 718620 2248121 1088277 11069 2
45    53  C   1 45 990 14190 141675 889929 2870326 3269728 1172800 20412 432
45    53  P   1 44 946 13244 120431 761490 2116820 1152900 19900 432
45    53  S   1 44 946 13244 129603 812862 2709850 3333918 1353304 34236 432
45    54  C   1 45 990 13500 124650 803290 2890900 3365820 1177600 11641 3
45    54  P   1 44 946 12554 112096 691202 2199778 1166042 11638 3
45    54  S   1 44 946 12632 114584 729602 2712574 3430912 1366190 21114 9
45    55  C   1 45 990 13500 124650 803290 2657035 3317760 1410025 59701 3
45    55  P   1 44 946 12554 112096 691202 1966633 1351127 59698 3
45    55  S   1 44 946 12632 114584 729602 2490155 3362812 2580585 89214 33
45    56  C   1 45 990 14045 137210 850519 2680966 3292013 1374705 36982 432
45    56  P   1 44 946 13099 124111 726408 1954550 1338256 36450 432
45    56  S   1 44 946 13118 125898 778708 2551262 3342539 1515765 59095 432
45    57  C   1 45 990 14190 141675 889929 2870326 3269728 1172800 20412 432
45    57  P   1 44 946 13244 120431 761490 2116820 1152900 19900 432
45    57  S   1 44 946 13244 129603 812862 2709850 3333918 1353304 34236 432
45    58  C   1 45 990 13500 124650 803290 2890900 3365820 1177600 11641 3
45    58  P   1 44 946 12554 112096 691202 2199778 1166042 11638 3
45    58  S   1 44 946 12632 114584 729602 2712574 3430912 1366190 21114 9
45    59  C   1 45 990 14190 147525 1082209 4889079 8529267 2053782 50752 1296
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Table 2 (continued)

n	θ	T	Const weights
45	59	P	1 44 946 13244 134246 936982 3508584 3445533 263412 5616
45	59	S	1 44 946 13244 134533 973776 4441027 8556860 2576649 78840 1296
45	60	C	1 45 990 13230 116100 672300 2408050 5285250 5740875 2460375
45	60	P	1 44 928 11740 95910 506460 1652400 2927700 2464425 729000
45	60	S	1 44 946 12374 106576 609390 2252190 4909770 5698575 2895750 291600
45	61	C	1 45 990 14190 142925 1019469 4634014 8397864 2493090 73332 1296
45	61	P	1 44 946 13244 129681 879820 3307448 3625122 346362 5940
45	61	S	1 44 946 13244 130749 921552 4216200 8366734 3033490 92952 1296
45	62	C	1 45 990 14190 147525 1082289 4889079 8529267 2053782 58752 1296
45	62	P	1 44 946 13244 134246 936982 3508584 3445533 263412 5616
45	62	S	1 44 946 13244 134533 973776 4441027 8556860 2576649 78840 1296
45	63	C	1 45 945 11925 98550 546750 2011500 4657500 6075000 3375000
45	63	P	1 43 858 10206 78645 400455 1320300 2636100 2794500 1147500
45	63	S	1 44 904 11190 91107 501510 1850760 4374000 5978700 3699000 270000
45	64	C	1 45 990 14190 147525 1082919 5034609 11683425 11184150 3975469 409509 21168 432
45	64	P	1 44 946 13244 134281 948638 4085971 7597454 3586696 388773 20736 432
45	64	S	1 44 946 13244 134533 974280 4554301 11142362 11569554 4616566 517161 30720 720
45	65	C	1 45 990 13500 124650 778321 3154950 7780725 11036250 8204625 2460375
45	65	P	1 44 946 12554 112096 666225 2488725 5292000 5744250 2460375
45	65	S	1 44 946 12632 114584 706815 2856990 7168875 10617345 8597250 3187350 291600
45	66	C	1 45 990 14190 142925 1019469 4765174 11484777 11447340 4237296 420354 21439 432
45	66	P	1 44 946 13244 129681 889788 3875386 7609391 3837949 399347 21007 432
45	66	S	1 44 946 13244 130749 921552 4317694 10897482 11798862 4913752 528244 31142 720
45	67	C	1 45 990 14190 147525 1082919 5034609 11683425 11184150 3975469 409509 21168 432
45	67	P	1 44 946 13244 134281 948638 4085971 7597454 3586696 388773 20736 432
45	67	S	1 44 946 13244 134533 974280 4554301 11142362 11569554 4616566 517161 30720 720
45	68	C	1 45 990 12871 110475 645300 2558250 6669000 10732500 9450000 3375000
45	68	P	1 44 946 11925 98550 546750 2011500 4657500 6075000 3375000
45	68	S	1 44 946 12094 102299 592618 2352270 6224760 10352700 9677700 3969000 270000
45	69	C	1 45 990 14190 146160 1127784 6629070 25348860 31328725 2504777 8100 162
45	69	P	1 44 946 13174 130872 966126 5314732 16256092 10643879 228368 198
45	69	S	1 44 946 13244 133371 1008588 5834200 22719142 32960276 4425026 13864 162
45	70	C	1 45 990 14190 146160 1121754 6341280 24190740 32470020 2818932 4752
45	70	P	1 44 946 13174 130837 955774 5006476 15951024 11236044 259995 117
45	70	S	1 44 946 13244 133371 1003878 5614310 21681810 33870740 4776336 14184
45	71	C	1 45 990 13500 124650 803298 3632940 11360880 21503610 21285450 8383500
45	71	P	1 44 946 12554 112096 691202 2941738 7986566 11871770 8171940 1765575
45	71	S	1 44 946 12632 114584 729602 3287818 10374842 20250058 21409382 9982155 946800
45	72	C	1 45 990 14190 146160 1127784 6629070 25348860 31328725 2504777 8100 162

Table 2 (continued)

n	#	T	Coset weights
45	72	P	1 44 946 13174 130872 966126 5314732 16256092 10643879 220368 198
45	72	S	1 44 946 13244 133371 1008588 5834200 22719142 32960276 4425026 13864 162
45	73	C	1 45 990 13548 126090 813240 3609450 10705500 20115000 21600000 10125000
45	73	P	1 44 946 12602 112781 686106 2796252 7317000 11369700 8964000 2295000
45	73	S	1 44 946 12681 116022 741171 3291075 9897264 19161960 21688200 11389500 810000
45	74	C	1 45 990 14190 147525 1170309 7270224 31086931 57177085 34829127 2512877 8262 162
45	74	P	1 44 946 13244 134281 1036028 6234196 24852735 32324350 2504777 8100 162
45	74	S	1 44 946 13244 134533 1044176 6361624 27442577 55961496 38594545 4650102 14278 162
45	75	C	1 45 990 14190 147525 1164819 7024734 29890906 57111930 36034152 2023684 4752
45	75	P	1 44 946 13244 134281 1030538 5994196 23896710 33215220 2010932 4752
45	75	S	1 44 946 13244 134533 1039898 6175916 26446520 55793918 39594866 5003550 14292
45	76	C	1 45 990 13500 124650 803298 3632940 11360880 24105925 34533225 32353518 19141020 6695640 1252800 115200 4096
45	76	P	1 44 946 12554 112096 691202 2941738 8419142 15766783 18766442 13507076 5553944 1141696 111104 4096
45	76	S	1 44 946 12632 114584 729602 3287018 10374842 22588879 33415618 32893156 20835974 8037496 1732472 185904 7680
45	77	C	1 45 990 14190 147525 1170309 7270224 31086931 57177085 34829127 2512877 8262 162
45	77	P	1 44 946 13244 134281 1036028 6234196 24852735 32324350 2504777 8100 162
45	77	S	1 44 946 13244 134533 1044176 6361624 27442577 55961496 38594545 4650102 14278 162
45	78	C	1 45 990 13548 126090 824130 3805068 12219120 26577765 37784521 33223950 16267500 3375000
45	78	P	1 44 946 12602 113488 710642 3094426 9124694 17453071 20331450 12892500 3375000
45	78	S	1 44 946 12681 116022 749940 3453084 11191842 24896997 36687604 34011914 18174253 4629900 292500
45	79	C	1 45 990 14190 147525 1170309 7270224 35049348 107232360 107117207 10397941 34722 594
45	79	P	1 44 946 13244 134281 1036028 6173754 27437632 64037702 33093117 690217 762
45	79	S	1 44 946 13244 134533 1044176 6361624 30284044 95900559 116240707 18362029 91224 723 2
45	80	C	1 45 990 14190 147525 1169679 7191234 33649750 104423820 110292002 11476510 67906 828
45	80	P	1 44 946 13244 134246 1034208 6123916 26219784 63433555 36497044 759640 1092
45	80	S	1 44 946 13244 134533 1043672 6302422 29240421 93116640 110001587 20466815 126211 912
45	81	C	1 45 990 14100 145350 1135890 6705045 28252395 75855960 105972040 48972600 13800240
45	81	P	1 44 943 13040 129845 970242 5361561 20351088 46288380 40216780 12830076 55728
45	81	S	1 44 946 13164 132591 1014198 5897871 24851583 60544670 103800544 59456260 4715560
45	82	C	1 45 990 14190 147525 1170309 7270224 35049348 107232360 107117207 10397941 34722 594

Table 2 (continued)

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n    •   T  Coset weights
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51   30  C  1 51 1275 19091 183804 1114962 3961612 6190380 4244832 1061208
51   30  P  1 50 1195 16885 150416 825469 2532456 3124668 1518984 218484
51   30  S  1 50 1225 18002 170545 1024760 3660253 6092324 4544236 1255416 10404
51   31  C  1 51 1275 20825 249900 2266134 11408020 14488080 5118020 2126
51   31  P  1 50 1225 19600 230300 2035834 9372186 5115894 2126
51   31  S  1 50 1225 19600 230300 2052034 10620362 14695410 5925328 10122
51   32  C  1 51 1275 20825 218620 1271600 3515600 5448772 6300472 6223360
                4978688 3168256 1584128 609280 174080 34816 4352 256
51   32  P  1 50 1225 19600 199020 1072580 2443020 3005752 3294720 2928640
                2050048 1118208 465920 143360 30720 4096 256
51   32  S  1 50 1225 19600 203676 1194084 3481970 5526458 6349096 6224416
                4978688 3168256 1584128 609280 174080 34816 4352 256
51   33  C  1 51 1275 20825 249900 2266134 11439640 14487570 5086400 2636
51   33  P  1 50 1225 19600 230300 2035834 9403806 5083764 2636
51   33  S  1 50 1225 19600 230300 2052034 10644942 14695304 5900748 10228
51   34  C  1 51 1275 20825 249900 2228632 11109466 14516232 5416574 11476
51   34  P  1 50 1225 19600 230300 1998332 9111134 5405098 11476
51   34  S  1 50 1225 19600 230300 2021782 10350148 14707970 6195542 27814
51   35  C  1 51 1275 19585 211140 1657908 8349924 14846355 8214876 253317
51   35  P  1 50 1225 18360 192780 1465128 6884796 7961559 253317
51   35  S  1 50 1225 18505 196070 1518499 7711372 14805717 8868548 434445
51   36  C  1 51 1275 19499 198033 1299634 5081487 10151992 10435212 5306040
                1061208
51   36  P  1 50 1225 18274 179759 1119875 3961612 6190380 4244832 1061208
51   36  S  1 50 1225 18394 183973 1196139 4689637 9752577 10636560 5799652
                1265820 10404
51   37  C  1 51 1275 20825 249900 2323356 15807076 41708871 6997455 54
51   37  P  1 50 1225 19600 230300 2071192 12358596 18279223 594245
51   37  S  1 50 1225 19600 230300 2098096 14166700 40942705 9649059 328
51   38  C  1 51 1275 20825 242828 1935960 9196779 22997940 30374515 2338690
51   38  P  1 50 1225 19600 223228 1712732 7484047 15513893 8445063 154593
51   38  S  1 50 1225 19600 224332 1774576 8539149 22335298 31014595 3200030 8
51   39  C  1 51 1275 20825 249900 2323356 15807484 41720754 6985215 3
51   39  P  1 50 1225 19600 230300 2071216 12350256 18268259 613525
51   39  S  1 50 1225 19600 230300 2098096 14166832 40938996 9653483 281
51   40  C  1 51 1275 20825 249900 2298060 15063054 40837978 8637054 666
51   40  P  1 50 1225 19600 230300 2055334 11860050 18477598 910274
51   40  S  1 50 1225 19600 230300 2077720 13566058 39860436 11350903 2491
51   41  C  1 51 1224 18360 192780 1503684 8927856 23771355 220585
51   41  P  1 49 1128 16200 162540 1208844 6672240 18831480 6660315 1635
51   41  S  1 50 1177 17328 178740 1371384 8036028 30007456 26935675 561020 5
51   42  C  1 51 1275 19499 198033 1355991 6187303 17917371 23919408 14326308
                3183624
51   42  P  1 50 1225 18274 179759 1176232 5011071 11403780 11061432 4265640
                436968
51   42  S  1 50 1225 18394 183973 1248110 5698313 16809942 23871738 15465786
                3780120 31212
51   43  C  1 51 1275 20825 249900 2323356 16156732 54599733 50699253 10164890
                1703 1
51   43  P  1 50 1225 19600 230300 2093056 14063676 40536057 10163196 1702 1
51   43  S  1 50 1225 19600 230300 2098096 14443636 51717395 52427763 13273722
                5939 1
51   44  C  1 51 1275 20825 242828 1935960 9196779 22997940 30374515 26864408
                20243226 12712192 6336512 2437120 696320 139264 17408 1024
51   44  P  1 50 1225 19600 223228 1712732 7484047 15513893 14860622 12003866
                8239360 4472832 1863680 573440 122880 16384 1024
51   44  S  1 50 1225 19600 224332 1774576 8539149 22335298 31014595 27687436
                20279322 12714496 6336512 2437120 696320 139264 17408 1024
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Table 2 (continued)

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n    #  T   Coset weights
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51   45 C   1 51 1275 20825 249900 2323356 16156528 54633444 50700018 10131187
                1142 1
51   45 P   1 50 1225 19600 230300 2093056 14063472 40569972 10130046 1141 1
51   45 S   1 50 1225 19600 230300 2098096 14443424 51739326 52428874 13251791
                5040 1
51   46 C   1 51 1275 20825 249900 2298060 15267054 51837114 51575229 12952813
                15405 1
51   46 P   1 50 1225 19600 230300 2067760 13199294 38637820 12937409 15404 1
51   46 S   1 50 1225 19600 230300 2077720 13726926 48986112 53110667 16025380
                39745 2
51   47 C   1 51 1275 19585 211140 1696464 10431540 41392824 56236323 23999940
                228585
51   47 P   1 50 1225 18360 192780 1503684 8927856 32464968 23771355 228585
51   47 S   1 50 1225 18505 196070 1550125 9407412 38043484 56943131 27496695
                561025 5
51   48 C   1 51 1275 19499 198033 1355991 6187303 17917371 32660451 37394713
                26205945 10378041 1855499 43197 357 1
51   48 P   1 50 1225 18274 179759 1176232 5011071 12906300 19754151 17640562
                8565383 1812658 42841 356 1
51   48 S   1 50 1225 18394 183973 1248110 5698313 16809942 31613115 37596790
                27465035 11373934 2146591 61642 611 2
52    1 C   1 52 315 1144 2860 5148 6864 6864 5148 2860 1144 312 52 4
52    1 P   1 51 264 880 1980 3168 3696 3168 1980 880 264 48 4
52    1 S   1 51 315 1145 2860 5148 6864 6864 5148 2860 1144 312 52 4
52    2 C   1 52 552 2340 5799 10296 13728 13728 10296 5720 2288 624 104 8
52    2 P   1 51 501 1839 3960 6336 7392 6336 3960 1760 528 96 8
52    2 S   1 51 552 2341 5799 10296 13728 13728 10296 5720 2288 624 104 8
54    1 C   1 54 703 5186 24948 81648 183708 279936 275562 157464 39366
54    1 P   1 53 650 4536 20412 61236 122472 157464 118098 39366
54    1 S   1 53 703 5187 24948 81648 183708 279936 275562 157464 39366
54    2 C   1 54 703 5676 31374 123390 350088 713826 1028106 1013636 647514
                240570 39366
54    2 P   1 53 650 5026 26348 97042 253046 460780 567326 446310 201204 39366
54    2 S   1 53 703 5677 31374 123390 350088 713826 1028106 1013636 647514
                240570 39366
54    3 C   1 54 1191 11076 62802 237174 610254 1058508 1189728 787320 236196
54    3 P   1 53 1138 9938 51812 176430 399780 591948 542376 271188 52488
54    3 S   1 53 1155 10933 62618 237214 610470 1058616 1189728 787320 236196
54    4 C   1 54 1191 11076 62802 247110 700338 1427652 2056212 2027272 1295028
                481140 78732
54    4 P   1 53 1138 9938 52864 194246 506092 921560 1134652 892620 402408
                78732
54    4 S   1 53 1155 10933 62618 247146 700558 1427760 2056212 2027272 1295028
                481140 78732
54    5 C   1 54 1191 14046 98985 448698 1368697 2873346 4163466 4090184 2598804
                962280 157464
54    5 P   1 53 1138 12908 86077 362621 1006076 1867270 2296196 1793908 804816
                157464
54    5 S   1 53 1155 13577 96173 439771 1353541 2862759 4169590 4107252 2610684
                965196 157464
54    6 C   1 54 703 5050 35100 161460 592020 1776060 4440150 9227792 15290794
                18382464 13187664 4000752
54    6 P   1 53 650 5200 29900 131560 460460 1315600 3124550 6103242 9195552
                9186912 4000752
54    6 S   1 53 703 5051 35100 161460 592020 1776060 4440150 9227792 15290794
                18382464 13187664 4000752
54    7 C   1 54 1191 11250 69660 322668 1184292 3552660 8880750 18747510
                33745194 52151586 69535440 80233200
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Table 2 (continued)

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n    #  T  Coset weights
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54    7 P  1 53 1138 10112 59548 263120 921172 2631488 6249262 12498248
           21246946 30904640 38630800 20801200
54    7 S  1 53 1155 11107 69360 322308 1184124 3552828 9881110 18747810
           33745334 52151622 69535444 80233200
55    1 C  1 55 615 2585 5560 7568
55    1 P  1 54 561 2024 3536 2016
55    1 S  1 54 615 2586 5560 7568
55    2 C  1 55 615 2585 5560 7568 7392 5280 2640 880 176 16
55    2 P  1 54 561 2024 3536 4032 3360 1920 720 160 16
55    2 S  1 54 615 2586 5560 7568 7392 5280 2640 880 176 16
55    3 C  1 55 1485 26125 300850 710160 9900
55    3 P  1 54 1428 24410 240845 257490 60
55    3 S  1 54 1431 24704 281526 724000 16860
55    4 C  1 55 1485 26235 309430 1009086 737660 13200
55    4 P  1 54 1431 24804 284626 724460 13200
55    4 S  1 54 1431 24804 289166 1001437 757978 22281
55    5 C  1 55 1485 26125 335500 3121855 11311245 1980725 225
55    5 P  1 54 1428 24550 305850 2565340 5291870 199513 2
55    5 S  1 54 1431 24704 311301 2861535 11051592 2526109 489
55    6 C  1 55 1485 26235 341055 3275581 14242305 13475120 2192370 225
55    6 P  1 54 1431 24804 316251 2959330 11282975 2192145 225
55    6 S  1 54 1431 24804 316251 2995846 13657721 13756022 2801812 490
56    1 C  1 56 111 72 16
56    1 P  1 55 56 16
56    1 S  1 55 111 73 16
56    2 C  1 56 183 200 72
56    2 P  1 55 128 72
56    2 S  1 55 183 201 72
56    3 C  1 56 231 456 280
56    3 P  1 55 176 280
56    3 S  1 55 231 457 280
56    4 C  1 56 231 456 560 448 224 64 8
56    4 P  1 55 176 280 280 168 56 8
56    4 S  1 55 231 457 560 448 224 64 8
56    5 C  1 56 453 848 562 120 8
56    5 P  1 55 398 450 112 8
56    5 S  1 55 453 849 562 120 8
56    6 C  1 56 307 616 604 336 112 16
56    6 P  1 55 252 364 240 96 16
56    6 S  1 55 307 617 604 336 112 16
56    7 C  1 56 505 1288 1318 672 224 32
56    7 P  1 55 450 838 480 192 32
56    7 S  1 55 505 1289 1318 672 224 32
56    8 C  1 56 894 3152 3120 888 81
56    8 P  1 55 839 2313 807 81
56    8 S  1 55 866 3098 3140 943 89
56    9 C  1 56 637 2632 3010 1344 448 64
56    9 P  1 55 582 2050 960 384 64
56    9 S  1 55 637 2633 3010 1344 448 64
56   10 C  1 56 637 2632 5005 4872 2485 632 64
56   10 P  1 55 582 2050 2955 1917 568 64
56   10 S  1 55 637 2633 5005 4872 2485 632 64
56   11 C  1 56 645 3928 6946 4208 600
56   11 P  1 55 590 3338 3608 600
56   11 S  1 55 645 3929 6946 4208 600
56   12 C  1 56 565 2688 6036 5320 1590 128
56   12 P  1 55 510 2178 3858 1462 128
56   12 S  1 55 565 2689 6036 5320 1590 128
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Table 2 (continued)

n	e	T	Coset weights
56	13	C	1 56 1030 7512 13914 8016 1431
56	13	P	1 55 963 6529 7305 1431
56	13	S	1 55 1010 7306 13086 8942 1607 1
56	14	C	1 56 958 5152 11906 10927 3439 256
56	14	P	1 55 903 4249 7737 3183 256
56	14	S	1 55 930 5066 11930 10998 3515 265
56	15	C	1 56 1267 9300 19030 2226
56	15	P	1 52 1017 5972 8994 340
56	15	S	1 55 1226 9090 19766 2622
56	16	C	1 56 1236 13504 27745 19200 3706
56	16	P	1 55 1181 12323 15422 3706
56	16	S	1 55 1194 12072 27469 19035 4104 1
56	17	C	1 56 1120 9104 24477 23016 7200 512
56	17	P	1 55 1035 8149 16320 6680 512
56	17	S	1 55 1062 9032 24353 23151 7352 530
56	18	C	1 56 1323 10640 29210 22064 2226
56	18	P	1 55 1268 9300 19030 2226
56	18	S	1 55 1201 10325 28864 22380 2622
56	19	C	1 56 1236 13504 39009 46344 24690 5632 512
56	19	P	1 55 1181 12323 26766 19570 5120 512
56	19	S	1 55 1194 12072 30297 46737 25532 5072 512
56	20	C	1 56 1090 9104 33631 49392 30210 6904 596
56	20	P	1 55 1035 8149 25402 23910 6300 596
56	20	S	1 55 1062 9032 33415 49470 30462 6979 596
56	21	C	1 56 645 3920 13790 20784 36664 20784 13790 3920 644 56 2
56	21	P	1 55 590 3330 10452 10332 10332 10452 3330 590 56 2
56	21	S	1 55 645 3929 13790 20784 36664 20784 13790 3920 644 56 2
56	22	C	1 56 757 6552 29262 55216 35292 3704 224 0
56	22	P	1 55 702 5050 23412 31804 3400 216 0
56	22	S	1 55 757 6553 29262 55216 35292 3704 224 0
56	23	C	1 56 646 2600 7090 16128 24260 27616 20000 16024 8000 2912 720 112 0
56	23	P	1 55 510 2170 9720 10608 13800 13776 10304 5720 2288 634 106 0
56	23	S	1 55 646 2609 7090 16128 24260 27616 20000 16024 9000 2912 720 112 0
56	24	C	1 56 1323 12224 41904 53256 22226
56	24	P	1 55 1268 10956 31030 22226
56	24	S	1 55 1201 11901 41632 53500 22622
56	25	C	1 56 1150 11704 55942 110096 73503 9200 476 16
56	25	P	1 55 1095 10609 45333 64763 8740 460 16
56	25	S	1 55 1122 11522 55642 110242 73031 9237 476 16
56	26	C	1 56 1323 13024 54194 117992 75554
56	26	P	1 55 1268 11756 42438 75554
56	26	S	1 55 1201 12701 53040 110316 75950
56	27	C	1 56 1438 18700 83908 130604 19502
56	27	P	1 55 1300 16192 55470 56406 1480
56	27	S	1 55 1307 17905 83002 130920 20714
56	28	C	1 56 1236 13504 54995 117176 140144 115472 55104 15712 2576 224 0
56	28	P	1 55 1181 12323 42672 74504 73640 41832 13352 2360 216 0
56	28	S	1 55 1194 12072 53055 117053 149138 116216 55352 15724 2576 224 0
56	29	C	1 56 1340 18400 101742 218000 157909 29560 1064 32
56	29	P	1 55 1293 17187 84555 133453 24534 1032 32
56	29	S	1 55 1306 17764 100150 218512 159615 25701 1064 32
56	30	C	1 56 1090 9104 31764 65912 97001 110704 96432 64112 32032 11600 2912 640 32
56	30	P	1 55 1035 8149 23615 42297 55504 55200 41232 22000 9152 2496 616 32
56	30	S	1 55 1062 9032 31512 65785 97993 111000 96592 64160 32000 11600 2912 640 32
56	31	C	1 56 1323 13024 54194 117992 160002 115136 55160 15712 2576 224 0
56	31	P	1 55 1268 11756 42438 75554 73328 41000 13352 2360 216 0

Table 2 (continued)

n	#	T	Coset weights
56	31	S	1 55 1281 12701 53840 118316 149278 115136 55160 15712 2576 224 8
56	32	C	1 56 1386 17039 101997 200949 158760 44100
56	32	P	1 55 1331 15708 86289 114660 44100
56	32	S	1 55 1340 16263 96919 197946 163084 47880
56	33	C	1 56 1435 18788 93450 205800 167258 37500
56	33	P	1 55 1380 17408 76042 129758 37500
56	33	S	1 55 1387 17985 91934 205788 168822 38316
56	34	C	1 56 1348 18480 129725 393568 384246 112120 8968 64
56	34	P	1 55 1293 17187 112538 281030 103216 8904 64
56	34	S	1 55 1306 17764 125993 390115 387984 116290 9004 64
56	35	C	1 56 1323 16584 94913 242760 312549 233016 110334 31424 5152 448 16
56	35	P	1 55 1268 15316 79597 163163 149386 83630 26704 4720 432 16
56	35	S	1 55 1281 15912 92339 242035 315165 234414 110334 31424 5152 448 16
56	36	C	1 56 757 6552 38136 144872 324476 339312 155694 33048 5208 448 16
56	36	P	1 55 702 5850 32286 112586 211890 127422 28272 4776 432 16
56	36	S	1 55 757 6553 38136 144872 324476 339312 155694 33048 5208 448 16
56	37	C	1 56 757 6552 35870 121072 215436 241984 202048 130432 64288 23296 5024 896 64
56	37	P	1 55 702 5850 30020 91052 124384 117600 84448 45984 18304 4992 832 64
56	37	S	1 55 757 6553 35870 121072 215436 241984 202048 130432 64288 23296 5024 896 64
56	38	C	1 56 1435 19024 122794 362824 396082 141584 3976
56	38	P	1 55 1380 18444 104350 258474 137608 3976
56	38	S	1 55 1387 18997 120482 361732 398442 143504 3976
56	39	C	1 56 1386 19720 147995 484352 667374 480704 221484 62848 10304 896 32
56	39	P	1 55 1331 18389 129606 354746 312628 168076 53408 9440 864 32
56	39	S	1 55 1340 18823 141245 473970 673466 491954 222108 62878 10304 896 32
56	40	C	1 56 1150 11704 73606 288040 651615 680976 311756 66096 10416 896 32
56	40	P	1 55 1095 10609 62997 225051 425764 255212 56544 9552 864 32
56	40	S	1 55 1122 11522 72970 287940 652031 682043 312004 66112 10416 896 32
56	41	C	1 56 1150 11704 69074 241136 433231 486368 404768 260920 120976 66092 11640 1792 128
56	41	P	1 55 1095 10609 58465 182671 250560 235808 168960 91968 36600 9984 1664 128
56	41	S	1 55 1122 11522 68510 240310 433143 487153 405408 261152 120600 66092 11640 1792 128
56	42	C	1 56 1386 10624 141933 572376 810351 457820 95305
56	42	P	1 55 1331 17293 124240 440136 362215 95305
56	42	S	1 55 1340 17020 135277 556555 809009 474146 102949
56	43	C	1 56 1435 20304 160826 567336 881282 460800 25032
56	43	P	1 55 1380 19004 121822 445514 435768 25032
56	43	S	1 55 1387 19545 138074 564036 883746 464940 25368
56	44	C	1 56 1372 19200 167825 858400 1045170 5040
56	44	P	1 52 1176 15092 119385 513450 399420
56	44	S	1 55 1324 18228 156884 800100 1100400 20160
56	45	C	1 56 1490 23289 207277 934059 845040 85932
56	45	P	1 55 1443 21182 166149 572178 278200 9360
56	45	S	1 55 1446 22177 196169 885948 896892 94464
56	46	C	1 56 1435 19024 126090 451304 863394 533600 101360
56	46	P	1 55 1380 17996 101558 309090 441648 166096 10752
56	46	S	1 55 1387 18997 123458 449316 866202 536176 101360
56	47	C	1 56 1420 21960 197291 868080 1428840 1079568 440920 125696 20608 1792 64
56	47	P	1 55 1373 20587 176704 691376 737464 342104 106016 18000 1728 64
56	47	S	1 55 1379 20983 186323 828268 1428757 1119606 460020 126848 20608 1792 64

<div align="center">Table 2 (continued)</div>

n	#	T	Coset weights
56	48	C	1 56 1348 18480 136734 573272 1313189 1371360 624984 132192 20032 1792 64
56	48	P	1 55 1293 17187 119547 453725 859464 511896 113088 19104 1728 64
56	48	S	1 55 1306 17764 133134 567500 1315343 1377753 626472 132208 20032 1792 64
56	49	C	1 56 1348 18480 124723 467152 879496 992840 810880 521856 257152 93184 23296 3584 256
56	49	P	1 55 1293 17187 107536 359616 519880 472960 337920 183936 73216 19968 3328 256
56	49	S	1 55 1306 17764 121923 462491 880862 997770 812292 522304 257216 93184 23296 3584 256
56	50	C	1 56 1435 20384 140826 567336 1299122 1375392 634872 132192 20032 1792 64
56	50	P	1 55 1380 19004 121822 445514 853608 521784 113088 19104 1728 64
56	50	S	1 55 1387 19545 138074 564036 1299282 1379532 637512 132192 20032 1792 64
56	51	C	1 56 1428 20501 187033 1026305 1903650 1050210 5040
56	51	P	1 55 1373 19208 167825 858480 1045170 5040
56	51	S	1 55 1379 19553 175112 956984 1900500 1120560 20160
56	52	C	1 56 1498 23289 214102 1066051 1795619 1007756 85932
56	52	P	1 55 1443 21846 192256 873795 921824 85932
56	52	S	1 55 1446 22177 202546 1011604 1798371 1063316 94788
56	53	C	1 56 1435 19024 129906 509768 1273090 1452648 692720 114856
56	53	P	1 55 1380 18444 111462 398306 874784 577864 114856
56	53	S	1 55 1387 18997 127210 506372 1272954 1456488 695600 115240
56	54	C	1 56 1428 21960 206947 1080656 2602800 2748560 1333934 330232 49066 3840 120
56	54	P	1 55 1373 20587 186360 894296 1708504 1040056 293070 45354 3712 120
56	54	S	1 55 1379 20883 194603 1016032 2517847 2766670 1419110 385384 61172 5280 192
56	55	C	1 56 1348 18480 157121 821968 2396086 2976152 1589189 373000 56431 3840 120
56	55	P	1 55 1293 17187 139934 682034 1714052 1262100 327009 46711 3720 120
56	55	S	1 55 1306 17764 150693 700657 2327250 2959436 1652063 421095 62799 5297 192
56	56	C	1 56 1348 18480 147939 680400 1648592 2172008 1811670 1126920 537642 109104 46592 7168 512
56	56	P	1 55 1293 17187 130752 549648 1098944 1073144 738534 388394 169248 39936 6656 512
56	56	S	1 55 1306 17764 142799 664437 1640966 2186908 1824422 1128700 537706 109104 46592 7168 512
56	57	C	1 56 1306 19720 174195 958496 2423802 2854800 1546500 397560 60132 3584 120
56	57	P	1 55 1331 18309 135806 802690 1621192 1233608 312092 44676 3456 120
56	57	S	1 55 1340 18023 164787 903924 2376076 2904906 1603552 362932 60620 3584 120
56	58	C	1 56 1435 22344 209181 1018472 2572793 2879416 1369000 270432 41670 3584 120
56	58	P	1 55 1380 20964 180217 830255 1742530 1136870 232210 38222 3456 120
56	58	S	1 55 1387 21307 190637 908633 2549065 2906609 1403312 274114 41774 3586 128
56	59	C	1 56 757 6552 39990 177744 578680 1349776 2144030 2174648 1332004 474712 97442 10016 512
56	59	P	1 55 702 5050 34140 143596 435084 914692 1229330 945310 387574 87130 10304 512
56	59	S	1 55 757 6553 39990 177744 578680 1349776 2144030 2174648 1332004 474712 97442 10016 512
56	60	C	1 56 757 6552 39510 170128 522564 1136192 1743308 1910672 1532412 889056 347004 81648 8748

Table 2 (continued)

n	#	T	Coset weights

56	60	P	1 55 702 5850 33660 136468 386096 750096 993212 917460 614952 274104 72900 8748
56	60	S	1 55 757 6553 39510 170128 522564 1136192 1743308 1910672 1532412 889056 347004 81648 8748
56	61	C	1 56 1428 21366 204337 1246770 3427789 2926112 560749
56	61	P	1 55 1373 19993 184344 1062426 2365363 560749
56	61	S	1 55 1379 20310 191533 1158988 3311222 3014831 690169 120
56	62	C	1 56 1498 24304 251062 1508976 3323461 2643032 618030 17136 252
56	62	P	1 55 1443 22861 228201 1280775 2042686 601146 16884 252
56	62	S	1 55 1446 23084 235470 1414290 3284547 2737813 672588 19062 252
56	63	C	1 56 1435 19824 129906 509768 1273090 2018704 2068080 1416576 671104 222208 50176 7168 512
56	63	P	1 55 1380 18444 111462 398306 874784 1143920 924160 492416 178688 43520 6656 512
56	63	S	1 55 1387 18997 127210 506372 1272954 2022288 2070960 1417216 671104 222208 50176 7168 512
56	64	C	1 56 1498 25480 275395 1740144 5023894 6046216 3003760 569544 83804 7168 256
56	64	P	1 55 1443 24037 251358 1488786 3535108 2511108 492652 76892 6912 256
56	64	S	1 55 1446 24194 259191 1647961 4922726 6127198 3120936 582028 84052 7172 256
56	65	C	1 56 1150 11704 75444 334544 1040557 2273664 3493336 3827232 3066616 1778112 694008 163296 17496
56	65	P	1 55 1095 10609 64835 269709 770848 1502816 1990520 1836712 1229904 548208 145800 17496
56	65	S	1 55 1122 11522 74792 333112 1038933 2273423 3495000 3829088 3067256 1778112 694008 163296 17496
56	66	C	1 56 1428 21760 218561 1490888 5579738 6855744 2508800 20160
56	66	P	1 55 1373 20387 198174 1292714 4287024 2568720 20160
56	66	S	1 55 1379 20690 205020 1384991 5280200 6948672 2902008 34200
56	67	C	1 56 1498 24864 272454 1922480 6227819 6390808 1886332 50400 504
56	67	P	1 55 1443 23421 249033 1673447 4554372 1836436 49896 504
56	67	S	1 55 1446 23632 256182 1805242 6055509 6504167 2074966 55512 504
56	68	C	1 56 1435 20384 147930 696136 2172514 4179424 4590040 3033056 1367296 444416 100352 14336 1024
56	68	P	1 55 1380 19004 128934 567202 1605312 2574112 2023936 1009920 357376 87040 13312 1024
56	68	S	1 55 1387 19545 144802 690532 2169938 4184508 4603800 3035136 1367296 444416 100352 14336 1024
56	69	C	1 56 1540 25907 280329 1980923 7766990 6686190 35280
56	69	P	1 55 1485 24034 244629 1552754 4620210 1945440
56	69	S	1 55 1485 24614 263890 1855491 7395500 7155540 80640
56	70	C	1 56 1435 20384 150570 746760 2742410 6629028 6016500 470064
56	70	P	1 55 1380 18940 130098 601494 2007128 3789720 1813104 26608
56	70	S	1 55 1387 19545 147306 740292 2735362 6635760 6027444 470064
56	71	C	1 56 1428 21960 218947 1403088 5367292 10598000 10143730 4648272 1041768 105840 4050
56	71	P	1 55 1373 20587 198360 1204728 4162564 6435436 3708294 939978 101790 4050
56	71	S	1 55 1379 20883 205723 1310968 5051759 10282796 10344530 5040304 1169766 114210 4050
56	72	C	1 56 1540 27720 324579 2366336 9103136 12963784 7170530 1404904 176918 14336 512
56	72	P	1 55 1485 26235 298344 2067992 7035144 5928640 1241890 163094 13824 512
56	72	S	1 55 1485 26235 304291 2224357 8752175 13050537 7540322 1461670 178430 14362 512
56	73	C	1 56 1348 18480 140437 683648 2295014 5400880 8602903 8732040 5345697 1898840 389760 43264 2048

Table 2 (continued)

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n    #    T  Coset weights
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56   73  P  1  55  1293  17187  123250  560398  1734616  3666264  4936639  3795401
                 1550296  348552  41216  2048
56   73  S  1  55  1306  17764  136773  674877  2285378  5399122  8611239  8742929
                 5350703  1099205  309768  43264  2048
56   74  C  1  56  1348  18400  136917  645904  2062158  4551968  7013304  7677992
                 6140400  3556224  1388016  326592  34992
56   74  P  1  55  1293  17187  119730  526174  1535984  3015984  3997400  3680592
                 2459008  1596416  291600  34992
56   74  S  1  55  1306  17764  133509  637561  2052162  4550018  7023008  7689002
                 6144222  3556224  1388016  326592  34992
56   75  C  1  56  1420  21760  218561  1490888  6480466  12418112  9745064  2832064
                 331184  14336  512
56   75  P  1  55  1373  20307  198174  1292714  5187752  7230360  2514704  317360  13824
                 512
56   75  S  1  55  1379  20690  205020  1384991  6036616  12294272  10103208  3062072
                 350400  14336  512
56   76  C  1  56  1498  24064  272454  1922480  7662031  12989736  8646176  1825744
                 194544  14336  512
56   76  P  1  55  1443  23421  249033  1673447  5988584  7001152  1645024  180720  13824
                 512
56   76  S  1  55  1446  23632  256182  1805242  7322549  12958899  9000480  1975052
                 196046  14336  512
56   77  C  1  56  1435  20304  147938  696136  2307090  5406496  8593368  8712032
                 5335560  1890840  309768  43264  2048
56   77  P  1  55  1380  19004  128934  567202  1739888  3666608  4926760  3785272
                 1550296  348552  41216  2048
56   77  S  1  55  1307  19545  144802  690532  2302402  5407500  8599704  8717472
                 5337104  1890840  309768  43264  2048
56   78  C  1  56  1420  20501  107278  1109262  4235364  9882516  12353145  5764001
56   78  P  1  55  1373  19208  160070  941192  3294172  6580344  5764001
56   78  S  1  55  1379  19553  175322  1026256  3894422  9143008  11802549  6588344
                 823543
56   79  C  1  56  1540  25907  205852  2092419  9145073  14460304  7338710  190450  5040
56   79  P  1  55  1485  24422  261430  1830989  7314084  7146300  193410  5040
56   79  S  1  55  1485  24614  269061  1962337  8676399  14553330  7825230  236800  5040
56   80  C  1  56  1498  24304  254765  1727320  7101780  11792271  8904004  3203277
                 515000  29908
56   80  P  1  55  1443  22861  231904  1495416  5606364  6185907  2710177  605100  29908
56   80  S  1  55  1446  23084  238653  1603171  6600336  11590693  9382674  3522225
                 554106  29908
56   81  C  1  56  1435  20304  151570  770056  2988930  8309536  12783176  7597104
                 852096
56   81  P  1  55  1380  19004  132574  637402  2351448  6038088  6745088  852096
56   81  S  1  55  1307  19545  148250  763012  2979634  8390220  12795840  7604304
                 852096
56   82  C  1  56  1540  27720  334235  2616544  12088080  26004616  20444232  4074712
                 405320  30784  1024
56   82  P  1  55  1485  26235  308000  2308544  9779536  16225000  4419152  455860  29760
                 1024
56   82  S  1  55  1485  26235  312571  2443981  11433783  25729097  21213936  5312560
                 591120  42504  1536
56   83  C  1  56  1348  18400  158159  885472  3323450  8412944  14317626  16404704
                 12907032  7179512  2776032  653184  69984
56   83  P  1  55  1293  17187  140972  744500  2570950  5833994  8403632  7921152
                 4966680  2192032  583200  69984
56   83  S  1  55  1306  17764  152123  857677  3252122  8324126  14311026  16505572
                 12991030  7196054  2776032  653184  69984
56   84  C  1  56  1420  21960  227213  1667560  8448460  23720592  24194226  8119804
                 682000  28672  1024
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Table 2 (continued)

n	d	T	Coset weights
56	84	P	1 55 1373 20587 206626 1460942 6987518 16733074 7461152 654432 27640 1024
56	84	S	1 55 1379 20883 213227 1548988 7840523 22682914 24777606 9272920 720672 28672 1024
56	85	C	1 56 1498 25480 298984 2438184 12175022 26403560 20661823 4658480 416080 28672 1024
56	85	P	1 55 1443 24037 274947 2163237 10011785 16391775 4270048 388432 27640 1024
56	85	S	1 55 1446 24194 279924 2261228 11367884 25922588 21479789 5317643 424364 28724 1024
56	86	C	1 56 1435 22344 216293 1217832 4422241 10804536 17402336 17625440 10728494 3797696 779536 86528 4096
56	86	P	1 55 1380 20964 195329 1022503 3399738 7404799 9997538 7627902 3100592 697104 82432 4096
56	86	S	1 55 1387 21307 205365 1177345 4350129 10754673 17440784 17710682 10773134 3803042 779536 86528 4096
56	87	C	1 56 757 6552 40950 196560 753480 2368080 6126134 12580120 18679780 17136504 7883346 1266560 69984
56	87	P	1 55 702 5850 35100 161460 592020 1776060 4350074 8230046 10449734 6686770 1196576 69984
56	87	S	1 55 757 6553 40950 196560 753480 2368080 6126134 12580120 18679780 17136504 7883346 1266560 69984
56	88	C	1 56 1540 26922 324324 2699102 14036233 29830936 19179060 997416 12474
56	88	P	1 55 1485 25437 290807 2400215 11636010 18194918 984942 12474
56	88	S	1 55 1485 25521 303280 2504595 13106044 29535001 20131140 1489260 12474
56	89	C	1 56 1435 20384 151578 770056 2388930 8820128 17887240 20018560 11990720 3067904 530432 57344 4096
56	89	P	1 55 1380 19004 132574 637402 2351440 6468680 11418560 9400000 2590720 477104 53248 4096
56	89	S	1 55 1387 19545 140250 763012 2979634 8820604 17899912 20025888 11990720 3067904 530432 57344 4096
56	90	C	1 56 1420 21960 227213 1667568 8729708 30178064 50803130 34817886 7331104 423360 16200
56	90	P	1 55 1373 20587 206626 1460942 7260766 22909290 27093032 6920024 407160 16200
56	90	S	1 55 1379 20883 213227 1548988 8074575 28206602 49969754 36875496 8833720 456040 16200
56	91	C	1 56 1498 25480 298984 2438184 17058662 38880976 49201607 25340000 4451032 423360 16200
56	91	P	1 55 1443 24037 274947 2163237 10895425 27905551 21296136 4044672 407160 16200
56	91	S	1 55 1446 24194 279924 2261228 12104430 36868499 49582011 27492774 5124052 462114 16200
56	92	C	1 56 1498 25480 288527 2107280 8556666 21639472 35136910 35560120 21557990 7595392 1559072 173056 8192
56	92	P	1 55 1443 24037 264490 1842790 6713876 14925596 20211314 15356814 6201104 1394200 164864 8192
56	92	S	1 55 1446 24194 270531 1972061 8278010 21470418 35291806 35055126 21699726 7613954 1559072 173056 8192
56	93	C	1 56 1150 11704 78261 386568 1498952 4730440 12252289 25166128 37367967 34279952 15770276 2534016 139968
56	93	P	1 55 1095 10609 67652 318916 1180036 3550404 8701885 16464243 20903724 13376228 2394040 139968
56	93	S	1 55 1122 11522 77561 384749 1495676 4726436 12249493 25166523 37371807 34284859 15773236 2534720 139968
56	94	C	1 56 1420 21760 218806 1513600 7161353 22270536 42432073 43294832 17294403

<div align="center">Table 2 (continued)</div>

n	#	T	Coset weights
56	94	P	1 55 1373 20387 198419 1315261 5846092 16432444 26000429 17294403
			20638996 2470629
56	94	S	1 55 1379 20690 205230 1404299 6596827 20518953 39666431 42694239
			20638996 2470629
56	95	C	1 56 1540 27440 347172 3194688 19416785 57115944 47301072 6770736
			42294
56	95	P	1 55 1485 25955 321217 2873471 16543314 40572630 6720442 42294
56	95	S	1 55 1485 25985 323505 2940511 17905392 55079025 40833163 9063288
			45318
56	56	C	1 56 1498 24864 276157 2094683 10359231 29504528 41696809 31216192
			13892480 4153856 874496 114688 8192
56	96	P	1 55 1443 23421 252736 1841944 8517287 20987241 20709568 10506624
			3385856 768000 106496 8192
56	96	S	1 55 1446 23632 259365 1954891 9695479 28156958 41225021 32293136
			14962944 4557312 956416 122880 8192
56	97	C	1 56 1435 20384 151578 770056 2988930 9036192 20812008 34009472
			35914592 21966336 7100352 1306368 139968
56	97	P	1 55 1380 19004 132574 637482 2351448 6684744 14127264 19882208
			16032384 5933952 1166400 139968
56	97	S	1 55 1387 19545 148250 763012 2979634 9036684 20824680 34016864
			35914592 21966336 7100352 1306368 139968
56	98	C	1 56 1540 25907 280574 2017330 9606548 29246140 51768521 40812359
			4507 52
56	98	P	1 55 1485 24034 244874 1613276 6834996 17831800 25617193 14940382
			768
56	98	S	1 55 1485 24614 264100 1886613 8964046 27405896 49401205 41660478
			4609235
56	99	C	1 56 1540 26922 325521 2794526 16511341 55131552 54007405 5191984
			226000
56	99	P	1 55 1485 25265 293066 2383112 12654035 32890155 18342890 517200
56	99	S	1 55 1485 25521 304117 2583129 15220349 52024437 57091364 6740326
			226944
56	100	C	1 56 1498 24864 278789 2181704 11925305 41004824 58950871 18982096
			867720
56	100	P	1 55 1443 23357 253164 1891188 9561689 27010543 24500000 3745840
			41560
56	100	S	1 55 1446 23632 261869 2036935 11162673 39112018 59481063 21136820
			1001200
56	101	C	1 56 1435 20384 150570 746760 2755354 7842072 17294844 29046024
			35541380 28813512 12005308 28
56	101	P	1 55 1380 18940 130098 601494 2063400 5412500 10845516 16201024
			17083940 11319552 3430060
56	101	S	1 55 1387 19545 147306 740292 2748298 7839028 17299780 29053800
			35546404 28815200 12005740 76
56	102	C	1 56 1420 21960 227213 1667560 8072360 33953808 78583701 91978016
			46242420 6599320 290605
56	102	P	1 55 1373 20587 206626 1460942 7411418 26542390 52041311 39933705
			6300715 290605
56	102	S	1 55 1379 20803 213227 1548980 8192996 31377220 74794295 92560047
			50723225 8701735 290605
56	103	C	1 56 1540 27720 350232 3133144 18975173 66242800 103227322 63903794
			11631060 910224 32400
56	103	P	1 55 1485 26235 323997 2809147 16166026 50076774 53150548 10753236
			877824 32600
56	103	S	1 55 1485 26235 326368 2892520 17531057 62626209 102808751 67678570
			13437646 994131 32400
56	104	C	1 56 1540 27720 337711 2806048 14903348 42408664 71761964 73355686
			44078636 15193472 3118144 346112 16384
56	104	P	1 55 1485 26235 311476 2494572 12408776 30079088 41682076 31673500
			12405056 2788416 329720 16384

Table 2 (continued)

n	#	T	Coset weights

```
 n    #   T  Coset weights
 --  ---- -  ------------------------------
 56  104 S  1 55 1485 26235 315631 2605401 13954059 41460045 72103376 74511900
             44708072 15267900 3118720 346112 16384
 56  105 C  1 56 1340 18480 142299 746592 2965200 9437520 24504494 50355784
             74769562 68587680 31554888 5071616 279936
 56  105 P  1 55 1293 17187 125112 621480 2343720 7093800 17410694 32945090
             41824472 26763208 4791680 279936
 56  105 S  1 55 1306 17764 138603 735927 2945292 9412992 24487358 50358028
             74792584 68617122 31572648 5075840 279936
 56  106 C  1 56 1540 27440 347172 3194688 20714357 78208008 107790774 52617968
             5359452 169568 4432
 56  106 P  1 55 1485 25955 321217 2873471 17840886 60367122 47423652 5194316
             165136 4432
 56  106 S  1 55 1485 25985 323505 2940511 18986748 73463811 108607401 57600278
             6294140 187008 4448
 56  107 C  1 56 1435 20384 151578 770056 3001866 9472320 24516632 50336832
             74731552 68551840 31534728 5066240 279936
 56  107 P  1 55 1380 19004 132574 637482 2364384 7107936 17408696 32928136
             41803416 26740424 4786304 279936
 56  107 S  1 55 1387 19545 140250 763012 2992570 9465420 24517016 50345200
             74742816 68558176 31535752 5066240 279936
 56  108 C  1 56 1540 25907 286097 2128026 10703126 35729135 75367509 90110251
             47059455 6223553
 56  108 P  1 55 1485 24422 261675 1867151 8835975 26893160 48474349 41635902
             6223553
 56  108 S  1 55 1485 24614 269271 1993459 10012160 33585777 71890281 89061986
             52036146 9551837 384
 56  109 C  1 56 1540 26922 328027 2881998 18038419 69633131 110077149 61411525
             5772592 264096
 56  109 P  1 55 1485 25437 302590 2579408 15459011 54174120 55903029 5508496
             264096
 56  109 S  1 55 1485 25521 306463 2664286 16616238 65242716 109846775 66020334
             7446766 264816
 56  110 C  1 56 1498 24064 279797 2218216 12545673 47625096 97375215 83266904
             24015544 1082592
 56  110 P  1 55 1443 23421 256376 1961840 10583833 37041263 60333952 22932952
             1082592
 56  110 S  1 55 1446 23632 262013 2070991 11739409 45278362 95761651 85577200
             26452400 1267488
 56  111 C  1 56 1435 20384 151578 770056 3001866 9389976 23591204 46123440
             66652796 65908472 40818820 12005336 28
 56  111 P  1 55 1380 19004 132574 637482 2364384 7025592 16565612 29557836
             37094960 28013512 12005308 28
 56  111 S  1 55 1387 19545 140250 763012 2992570 9383124 23591492 46130904
             66662572 65915192 40821380 12005816 76
 57    1 C  1 57 1539 26163 188098 45486
 57    1 P  1 55 1431 22989 101142 5454
 57    1 S  1 56 1486 24040 183471 52290
 57    2 C  1 57 1596 27703 215061 234384 45486
 57    2 P  1 56 1540 26163 188098 45486
 57    2 S  1 56 1540 26326 208313 235762 52290
 57    3 C  1 57 1539 26163 296685 697338 26790 3
 57    3 P  1 55 1431 23409 229527 269292 573
 57    3 S  1 56 1486 24040 270406 712089 31695 3
 57    4 C  1 57 687 3895 15504 46512 108528 201552 302328 369512
 57    4 P  1 56 631 3264 12240 34272 74256 127296 175032 97240
 57    4 S  1 56 687 3896 15504 46512 108528 201552 302328 369512
 57    5 C  1 57 1596 27703 322048 994023 724128 26793 3
 57    5 P  1 56 1540 26163 296685 697338 26790 3
```

Table 2 (continued)

n	•	T	Coset weights
57	5	S	1 56 1540 26326 303248 990496 743784 31698 3
57	6	C	1 57 687 3895 15504 46512 108528 201552 302328 369512 369512 302328 201552 108528 46512 15504 3876 684 76 4
57	6	P	1 56 631 3264 12240 34272 74256 127296 175032 194480 175032 127296 74256 34272 12240 3264 612 72 4
57	6	S	1 56 687 3896 15504 46512 108528 201552 302328 369512 369512 302328 201552 108528 46512 15504 3876 684 76 4
60	1	C	1 60 63 4
60	1	P	1 59 4
60	1	S	1 59 63 5
60	2	C	1 60 111 68 16
60	2	P	1 59 52 16
60	2	S	1 59 111 69 16
60	3	C	1 60 243 196 12
60	3	P	1 59 184 12
60	3	S	1 59 243 197 12
60	4	C	1 60 175 180 80 16
60	4	P	1 59 116 64 16
60	4	S	1 59 175 181 80 16
60	5	C	1 60 426 452 85
60	5	P	1 59 367 85
60	5	S	1 59 426 453 85
60	6	C	1 60 307 420 204 32
60	6	P	1 59 248 172 32
60	6	S	1 59 307 421 204 32
60	7	C	1 60 774 189
60	7	P	1 58 444 9
60	7	S	1 59 769 195
60	8	C	1 60 637 320 6
60	8	P	1 59 422 30
60	8	S	1 59 637 321 6
60	9	C	1 60 511 904 510 60 2
60	9	P	1 59 452 452 58 2
60	9	S	1 59 511 905 510 60 2
60	10	C	1 60 423 900 600 64
60	10	P	1 59 364 536 64
60	10	S	1 59 423 901 600 64
60	11	C	1 60 457 772 534 192 32
60	11	P	1 59 398 374 160 32
60	11	S	1 59 457 773 534 192 32
60	12	C	1 60 423 964 600
60	12	P	1 59 364 600
60	12	S	1 59 423 965 600
60	13	C	1 60 351 720 640 244 32
60	13	P	1 59 292 428 212 32
60	13	S	1 59 351 721 640 244 32
60	14	C	1 60 834 964 189
60	14	P	1 59 775 189
60	14	S	1 59 826 965 197
60	15	C	1 60 637 900 386 64
60	15	P	1 59 578 322 64
60	15	S	1 59 637 901 386 64
60	16	C	1 60 741 1860 1306 128
60	16	P	1 59 682 1178 128
60	16	S	1 59 741 1861 1306 128
60	17	C	1 60 719 1540 1264 448 64
60	17	P	1 59 660 880 384 64
60	17	S	1 59 715 1541 1268 448 64

Table 2 (continued)

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n    #   T   Coset weights
--  ----  -   ------------------------------
60   18  C   1 60 741 1988 1306
60   18  P   1 59 682 1306
60   18  S   1 59 741 1989 1306
60   19  C   1 60 560 1440 1423 548 64
60   19  P   1 59 501 939 484 64
60   19  S   1 59 560 1441 1423 548 64
60   20  C   1 60 834 1604 1149 384 64
60   20  P   1 59 775 829 320 64
60   20  S   1 59 826 1605 1157 384 64
60   21  C   1 60 637 1500 1346 488 64
60   21  P   1 59 578 922 424 64
60   21  S   1 59 637 1501 1346 488 64
60   22  C   1 60 1305 2730
60   22  P   1 52 903 1092
60   22  S   1 59 1264 2772
60   23  C   1 60 873 1854 1308
60   23  P   1 58 627 927 435
60   23  S   1 59 868 1860 1308
60   24  C   1 60 736 1895 1404
60   24  P   1 59 557 972 459
60   24  S   1 59 736 1896 1404
60   25  C   1 60 691 3796 3396 240 8
60   25  P   1 59 632 3164 232 8
60   25  S   1 59 691 3797 3396 240 9
60   26  C   1 60 423 1820 3500 2212 172 4
60   26  P   1 59 364 1456 2044 168 4
60   26  S   1 5. 423 1821 3500 2212 172 4
60   27  C   1 60 834 2308 2829 1728 432
60   27  P   1 59 775 1533 1296 432
60   27  S   1 59 826 2309 2837 1728 432
60   28  C   1 60 423 1444 2700 2592 972
60   28  P   1 59 364 1080 1620 972
60   28  S   1 59 423 1445 2700 2592 972
60   29  C   1 60 367 980 1680 2016 1680 960 360 80 8
60   29  P   1 59 308 672 1008 1008 672 288 72 8
60   29  S   1 59 367 981 1680 2016 1680 960 360 80 8
60   30  C   1 60 637 2160 3026 1876 432
60   30  P   1 59 578 1502 1444 432
60   30  S   1 59 637 2161 3026 1876 432
60   31  C   1 60 1365 4036 2730
60   31  P   1 59 1306 2730
60   31  S   1 59 1323 4037 2772
60   32  C   1 60 933 2728 3162 1308
60   32  P   1 59 874 1854 1308
60   32  S   1 59 925 2729 3170 1308
60   33  C   1 60 736 2565 3359 1471
60   33  P   1 59 677 1888 1471
60   33  S   1 59 736 2566 3359 1471
60   34  C   1 60 1142 7456 7030 676 19
60   34  P   1 59 1083 6373 657 19
60   34  S   1 59 1112 7336 7052 797 27
60   35  C   1 60 741 3700 7106 4424 344 9
60   35  P   1 59 682 3018 4080 336 8
60   35  S   1 59 741 3701 7106 4424 344 9
60   36  C   1 60 933 3640 6394 4492 864
60   36  P   1 59 874 2766 3620 864
60   36  S   1 59 925 3641 6402 4492 864
60   37  C   1 60 741 2948 5506 5184 1944
```

Table 2 (continued)

```
n    #  T  Coset weights
--  ---- -  ------------------------------
60   37 P  1 59 682 2266 3240 1944
60   37 S  1 59 741 2949 5506 5184 1944
60   38 C  1 60 571 1860 3444 4176 3440 1936 720 160 16
60   38 P  1 59 512 1348 2096 2080 1360 576 144 16
60   38 S  1 59 571 1861 3444 4176 3440 1936 720 160 16
60   39 C  1 60 736 3420 6591 4712 864
60   39 P  1 59 677 2743 3848 864
60   39 S  1 59 736 3421 6591 4712 864
60   40 C  1 60 1365 7652 6810 480 16
60   40 P  1 59 1306 6346 464 16
60   40 S  1 59 1323 7653 6852 480 16
60   41 C  1 60 933 3320 5658 4812 1600
60   41 P  1 59 874 2446 3212 1600
60   41 S  1 59 925 3321 5666 4812 1600
60   42 C  1 60 736 3120 5855 5012 1600
60   42 P  1 59 677 2443 3412 1600
60   42 S  1 59 736 3121 5855 5012 1600
60   43 C  1 60 1405 12040 2790
60   43 P  1 59 1362 6519 252
60   43 S  1 59 1444 11802 3078
60   44 C  1 60 1143 5604 8460 1080 36
60   44 P  1 59 953 3568 3396 216
60   44 S  1 59 1122 5611 8475 1080 36
60   45 C  1 60 1329 7100 7446 448
60   45 P  1 59 1270 4797 2065
60   45 S  1 59 1289 7021 7560 454
60   46 C  1 60 1269 4326 6660 4032 36
60   46 P  1 59 1005 2664 3132 1332
60   46 S  1 59 1232 4316 6676 4056 44
60   47 C  1 60 703 3380 8760 3480
60   47 P  1 59 632 2508 4560 432
60   47 S  1 59 703 3381 8760 3480
60   48 C  1 60 1097 5260 8146 1720 100
60   48 P  1 59 990 3598 3204 340
60   48 S  1 59 1077 5261 8166 1720 100
60   49 C  1 60 1365 13624 14925 2700 93
60   49 P  1 59 1306 12318 2607 93
60   49 S  1 59 1323 13076 14967 3249 93
60   50 C  1 60 871 7200 14610 9124 902
60   50 P  1 59 812 6388 8222 902
60   50 S  1 59 871 7201 14610 9124 902
60   51 C  1 60 691 3796 10152 11940 5522 588 18
60   51 P  1 59 632 3164 6988 4952 570 18
60   51 S  1 59 691 3797 10152 11940 5522 588 18
60   52 C  1 60 871 7264 15480 9060 32
60   52 P  1 59 812 6452 9028 32
60   52 S  1 59 871 7265 15480 9060 32
60   53 C  1 60 791 3780 7400 8384 6720 3840 1440 320 32
60   53 P  1 59 732 3048 4352 4032 2688 1152 288 32
60   53 S  1 59 791 3781 7400 8384 6720 3840 1440 320 32
60   54 C  1 60 727 4640 12766 11660 2890 16
60   54 P  1 59 668 3972 8794 2874 16
60   54 S  1 59 727 4641 12766 11660 2890 16
60   55 C  1 60 423 1820 5460 10504 10500 4000
60   55 P  1 59 364 1456 4004 6500 4000
60   55 S  1 59 423 1821 5460 10504 10500 4000
60   56 C  1 60 933 3640 8050 12684 7392
60   56 P  1 59 874 2766 5292 7392
```

Table 2 (continued)

```
n   #   T  Coset weights
--  ----  -  ------------------------------
60   56 S  1 59 925 3641 8066 12684 7392
60   57 C  1 60 727 3856 9726 11712 5930 756
60   57 P  1 59 668 3188 6538 5174 756
60   57 S  1 59 727 3857 9726 11712 5930 756
60   58 C  1 60 623 2760 6478 8956 7730 4288 1520 320 32
60   58 P  1 59 564 2196 4282 4674 3056 1232 288 32
60   58 S  1 59 623 2761 6478 8956 7730 4288 1520 320 32
60   59 C  1 60 736 3420 8255 12904 7392
60   59 P  1 59 677 2743 5512 7392
60   59 S  1 59 736 3421 8255 12904 7392
60   60 C  1 60 1545 13534 14838 2790
60   60 P  1 59 1486 12048 2790
60   60 S  1 59 1501 13247 14882 3078
60   61 C  1 60 1203 6748 14064 9540 1116 36
60   61 P  1 59 1144 5604 8460 1080 36
60   61 S  1 59 1179 6734 14088 9555 1116 36
60   62 C  1 60 1329 7100 14366 9208 688 16
60   62 P  1 59 1270 5830 8536 672 16
60   62 S  1 59 1289 7021 14382 9208 712 16
60   63 C  1 60 1329 5596 10986 10692 4068 36
60   63 P  1 59 1270 4326 6660 4032 36
60   63 S  1 59 1289 5549 10994 10732 4100 44
60   64 C  1 60 703 3540 11240 12304 4440 480
60   64 P  1 59 644 2896 8244 3960 480
60   64 S  1 59 703 3541 11240 12304 4440 480
60   65 C  1 60 1097 5580 13106 10608 2180 136
60   65 P  1 59 1038 4542 8564 2044 136
60   65 S  1 59 1077 5581 13126 10608 2180 136
60   66 C  1 60 1410 16204 28441 16504 2916
60   66 P  1 59 1351 14853 13588 2916
60   66 S  1 59 1365 15485 28309 17224 3093
60   67 C  1 60 1322 13560 29086 19144 2359 4
60   67 P  1 59 1263 12297 16789 2355 4
60   67 S  1 59 1292 13350 29062 19354 2413 5
60   68 C  1 60 1322 13624 30826 19084 619
60   68 P  1 59 1263 12361 18465 619
60   68 S  1 59 1292 13414 30824 19295 651
60   69 C  1 60 1207 6980 14856 17344 13760 7744 2880 640 64
60   69 P  1 59 1148 5832 9024 8320 5440 2304 576 64
60   69 S  1 59 1183 6957 14880 17368 13760 7744 2880 640 64
60   70 C  1 60 1124 8840 25863 23036 5780 32
60   70 P  1 59 1065 7775 18088 5748 32
60   70 S  1 59 1104 8771 25883 23906 5780 32
60   71 C  1 60 741 3700 11026 21008 21000 8000
60   71 P  1 59 682 3018 8000 13000 8000
60   71 S  1 59 741 3701 11026 21008 21000 8000
60   72 C  1 60 933 3640 8058 12684 14784 12672 7920 3520 1056 192 16
60   72 P  1 59 874 2766 5292 7392 7392 5280 2640 880 176 16
60   72 S  1 59 925 3641 8066 12684 14784 12672 7920 3520 1056 192 16
60   73 C  1 60 1124 7408 19783 23788 11860 1512
60   73 P  1 59 1065 6343 13440 10348 1512
60   73 S  1 59 1104 7373 19803 23824 11860 1512
60   74 C  1 60 736 3420 8255 12904 14784 12672 7920 3520 1056 192 16
60   74 P  1 59 677 2743 5512 7392 7392 5280 2640 880 176 16
60   74 S  1 59 736 3421 8255 12904 14784 12672 7920 3520 1056 192 16
60   75 C  1 60 1545 18720 31150 13980 64
60   75 P  1 59 1486 17242 13916 64
60   75 S  1 59 1501 18161 31202 14548 64
```

<div align="center">Table 2 (continued)</div>

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 n    #  T  Coset weights
--  ---- -  ------------------------------
60   76 C  1 60 1203 7652 20484 23880 11044 1176 36
60   76 P  1 59 1144 6508 13976 9904 1140 36
60   76 S  1 59 1179 7619 20508 23915 11044 1176 36
60   77 C  1 60 1329 9220 25628 23456 5810 32
60   77 P  1 59 1270 7950 17678 5778 32
60   77 S  1 59 1289 9137 25644 23540 5834 32
60   78 C  1 60 1329 7652 19518 23532 11920 1524
60   78 P  1 59 1270 6382 13136 10396 1524
60   78 S  1 59 1289 7585 19526 23592 11952 1532
60   79 C  1 60 703 3540 11240 18928 17560 9600 3200 640 64
60   79 P  1 59 644 2896 8344 10584 6976 2624 576 64
60   79 S  1 59 703 3541 11240 18928 17560 9600 3200 640 64
60   80 C  1 60 1097 5580 13106 17912 15460 8576 3040 640 64
60   80 P  1 59 1038 4542 8564 9348 6112 2464 576 64
60   80 S  1 59 1077 5581 13126 17912 15460 8576 3040 640 64
60   81 C  1 60 1725 24240 38910 600
60   81 P  1 59 1648 17632 13428
60   81 S  1 59 1669 23305 39902 600
60   82 C  1 60 1485 16326 41940 5580 144
60   82 P  1 58 1362 12357 18042 948
60   82 S  1 59 1444 15876 42192 5820 144
60   83 C  1 60 1665 23535 39915 360
60   83 P  1 58 1542 17343 13824
60   83 S  1 59 1612 22587 40893 384
60   84 C  1 60 1515 13020 37020 13920
60   84 P  1 59 1438 10534 19008 1728
60   84 S  1 59 1467 12793 37224 13992
60   85 C  1 60 1428 14615 38640 10777 15
60   85 P  1 59 1369 11889 18102 1348
60   85 S  1 59 1388 14320 38718 11035 15
60   86 C  1 60 1368 10824 29061 21924 2274 24
60   86 P  1 58 1182 7746 15615 7836 330
60   86 S  1 59 1331 10676 29089 22066 2290 24
60   87 C  1 60 1171 9400 34154 20350 400
60   87 P  1 59 1100 7772 19890 3946
60   87 S  1 59 1147 9293 34106 20530 400
60   88 C  1 60 1545 21916 62988 43560 1002
60   88 P  1 59 1486 20430 42558 1002
60   88 S  1 59 1501 21149 63020 44328 1014
60   89 C  1 60 871 8120 33910 57292 30754 64
60   89 P  1 59 812 7308 26602 30690 64
60   89 S  1 59 871 8121 33910 57292 30754 64
60   90 C  1 60 1203 10072 36381 53052 27879 2352 72
60   90 P  1 59 1144 8928 27453 25599 2280 72
60   90 S  1 59 1179 9928 36181 53153 28103 2396 72
60   91 C  1 60 871 7744 33210 56292 31454 1440
60   91 P  1 59 812 6932 26278 30014 1440
60   91 S  1 59 871 7745 33210 56292 31454 1440
60   92 C  1 60 791 6020 23130 40832 35726 17344 5760 1280 128
60   92 P  1 59 732 5288 17842 22990 12736 4608 1152 128
60   92 S  1 59 791 6021 23130 40832 35726 17344 5760 1280 128
60   93 C  1 60 1329 13280 46757 52132 17449 64
60   93 P  1 59 1270 12010 34747 17385 64
60   93 S  1 59 1289 12795 45917 52576 18329 106
60   94 C  1 60 423 1820 5460 12012 20020 25740 25740 20020 12012 5460 1820 420
                  60 4
60   94 P  1 59 364 1456 4004 8008 12012 13728 12012 8008 4004 1456 364 56 4
60   94 S  1 59 423 1821 5460 12012 20020 25740 25740 20020 12012 5460 1820 420
                  60 4
```

<div align="center">Table 2 (continued)</div>

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n    #   T  Coset weights
--  ----  -  ------------------------------
60   95  C  1 60 1329 10864 35217 50112 28989 4500
60   95  P  1 59 1270 9594 25623 24489 4500
60   95  S  1 59 1289 10595 34841 50150 29405 4732
60   96  C  1 60 703 3540 11240 23776 33720 31680 18900 6480 972
60   96  P  1 59 644 2896 8344 15432 18288 13392 5508 972
60   96  S  1 59 703 3541 11240 23776 33720 31680 18900 6480 972
60   97  C  1 60 1097 7800 24977 39244 33253 17152 6080 1280 128
60   97  P  1 59 1038 6762 18215 21029 12224 4928 1152 128
60   97  S  1 59 1077 7737 24957 39303 33293 17157 6080 1280 128
60   98  C  1 60 1410 14851 64125 50625
60   98  P  1 59 1351 13500 50625
60   98  S  1 59 1365 14177 60795 51300 3375
60   99  C  1 60 1725 24600 63210 40876 600
60   99  P  1 59 1666 22934 40276 600
60   99  S  1 59 1669 23653 63266 41824 600
60  100  C  1 60 1545 17812 58266 47520 5724 144
60  100  P  1 59 1486 16326 41940 5580 144
60  100  S  1 59 1501 17321 58070 48012 5964 144
60  101  C  1 60 1725 25201 63450 40275 360
60  101  P  1 59 1666 23535 39915 360
60  101  S  1 59 1669 24200 63482 41277 384
60  102  C  1 60 1356 13231 52758 51516 11421 729
60  102  P  1 59 1297 11934 40824 10692 729
60  102  S  1 59 1322 12974 52369 51720 11844 783
60  103  C  1 60 1515 13380 46260 50176 17760 1920
60  103  P  1 59 1456 11924 34336 15840 1920
60  103  S  1 59 1467 13141 46308 50416 17760 1920
60  104  C  1 60 1428 14615 51815 50737 12292 124
60  104  P  1 59 1369 13246 38569 12168 124
60  104  S  1 59 1388 14320 51597 51033 12550 124
60  105  C  1 60 1428 12193 39885 50985 24198 2298 24
60  105  P  1 59 1369 10824 29061 21924 2274 24
60  105  S  1 59 1388 12008 39767 51155 24356 2314 24
60  106  C  1 60 1171 9560 39834 53452 24530 2464
60  106  P  1 59 1112 8448 31386 22066 2464
60  106  S  1 59 1147 9453 39706 53560 24682 2464
60  107  C  1 60 1250 10920 43385 51831 20900 2725
60  107  P  1 59 1191 9729 33656 18175 2725
60  107  S  1 59 1220 10746 43205 51956 21110 2775
60  108  C  1 60 1590 24496 117049 106516 12432
60  108  P  1 59 1531 22965 94084 12432
60  108  S  1 59 1543 23552 116202 107461 13326
60  109  C  1 60 1322 14480 64846 114612 64075 1920 28
60  109  P  1 59 1263 13217 51629 62983 1892 28
60  109  S  1 59 1292 14270 64638 114816 65113 1927 28
60  110  C  1 60 1356 14452 66700 109876 62871 6684 144
60  110  P  1 59 1297 13155 53545 56331 6540 144
60  110  S  1 59 1322 14105 65764 109921 63841 6987 144
60  111  C  1 60 1322 14104 64276 112816 65455 4092 18
60  111  P  1 59 1263 12841 51435 61381 4074 18
60  111  S  1 59 1292 13894 63940 112856 65821 4263 18
60  112  C  1 60 1207 11020 45476 82492 72612 34940 11520 2560 256
60  112  P  1 59 1148 9872 35604 46888 25724 9216 2304 256
60  112  S  1 59 1183 10901 45404 82610 72708 34942 11520 2560 256
60  113  C  1 60 1428 17420 88785 113344 40858 248
60  113  P  1 59 1369 16051 72734 40610 248
60  113  S  1 59 1388 16869 87121 113012 42562 332
60  114  C  1 60 741 3700 11026 24024 40040 51480 51480 40040 24024 10920 3640
                  840 120 8
```

Table 2 (continued)

n	#	T	Coset weights

```
 n    #   T  Coset weights
--  ----  -  ----------------------------------
60   114  P  1 59 682 3010 8008 16016 24024 27456 24024 16016 8008 2912 728 112 8
60   114  S  1 59 741 3701 11026 24024 40040 51480 51480 40040 24024 10920 3640
                840 120 8
60   115  C  1 60 1428 15004 68155 106640 61408 9360
60   115  P  1 59 1369 13635 54520 52128 9360
60   115  S  1 59 1388 14669 67411 106518 62272 9826
60   116  C  1 60 763 4580 18004 46016 72560 67456 37800 12960 1944
60   116  P  1 59 704 3876 14128 31888 40672 26784 11016 1944
60   116  S  1 59 763 4581 18004 46016 72560 67456 37800 12960 1944
60   117  C  1 60 1250 11220 45249 81364 72056 35868 12260 2560 256
60   117  P  1 59 1191 10029 35220 46144 25912 9956 2304 256
60   117  S  1 59 1220 11046 44959 81374 72344 36033 12292 2560 256
60   118  C  1 60 1725 28140 110610 102872 18736
60   118  P  1 59 1666 26474 84136 18736
60   118  S  1 59 1669 26949 110442 104064 18960
60   119  C  1 60 1545 18728 81246 107580 48136 4704 144
60   119  P  1 59 1486 17242 64004 43576 4560 144
60   119  S  1 59 1501 18161 80174 108140 49252 4704 144
60   120  C  1 60 1725 28302 122970 102630 6376
60   120  P  1 59 1666 26716 96254 6376
60   120  S  1 59 1669 27173 121939 103840 7463
60   121  C  1 60 1515 13380 46260 76672 70240 38400 12800 2560 256
60   121  P  1 59 1456 11924 34336 42336 27904 10496 2304 256
60   121  S  1 59 1467 13141 46308 76912 70240 38400 12800 2560 256
60   122  C  1 60 1428 16360 76691 113912 52952 740
60   122  P  1 59 1369 14991 61700 52212 740
60   122  S  1 59 1388 15911 75799 114334 53884 768
60   123  C  1 60 1428 13976 59361 105516 70186 11520 96
60   123  P  1 59 1369 12607 46754 58762 11424 96
60   123  S  1 59 1388 13699 58909 105572 70678 11742 96
60   124  C  1 60 1171 9560 39034 76908 76370 41984 13440 2560 256
60   124  P  1 59 1112 8440 31386 45522 30840 11136 2304 256
60   124  S  1 59 1147 9453 39706 77016 76522 41984 13440 2560 256
60   125  C  1 60 1530 17553 91125 151875
60   125  P  1 58 1413 14050 64125 50625
60   125  S  1 59 1486 16923 88425 155250
60   126  C  1 60 1725 28700 127890 90328 13440
60   126  P  1 59 1666 23898 84616 20160 672
60   126  S  1 59 1669 27357 129290 90328 13440
60   127  C  1 60 1485 18942 119385 119970 2295 6
60   127  P  1 58 1362 15774 77037 36810 30
60   127  S  1 59 1444 18345 116232 123708 2349 6
60   128  C  1 60 1665 25590 132300 93888 8640
60   128  P  1 58 1545 20760 75300 32032 576
60   128  S  1 59 1612 24444 129124 96728 10176
60   129  C  1 60 1473 15380 86655 151504 7071
60   129  P  1 59 1414 13452 64859 50823 464
60   129  S  1 59 1433 15205 86443 151875 7128
60   130  C  1 60 1413 12510 65445 140367 42348
60   130  P  1 58 1245 10080 45465 65391 8832
60   130  S  1 59 1376 12404 65205 140542 42477
60   131  C  1 60 1515 20900 129705 109093 870
60   131  P  1 59 1456 18960 88177 22395 24
60   131  S  1 59 1467 19977 125433 113689 1518
60   132  C  1 60 1473 15580 93302 145624 6104
60   132  P  1 59 1414 13901 67457 48124 116
60   132  S  1 59 1433 15401 93036 146066 6148
60   133  C  1 60 1329 7100 22026 48372 80260 102996
```

Table 2 (continued)

```
n    #   T   Coset weights
--  ----  -  ------------------------------
60  133 P  1 59 1270 5830 16196 32176 48084 27456
60  133 S  1 59 1289 7021 21986 48412 80332 103036 8
60  134 C  1 60 763 4420 16900 44000 76000 80000 40000
60  134 P  1 59 692 3560 12260 27900 40600 34000 12000
60  134 S  1 59 763 4421 16900 44000 76000 80000 40000
60  135 C  1 60 1477 18680 111435 124980 5511
60  135 P  1 59 1406 16674 75369 36963
60  135 S  1 59 1435 18048 108909 127773 5919
60  136 C  1 60 1410 16204 92655 245880 168078
60  136 P  1 59 1351 14853 77802 168078
60  136 S  1 59 1365 15485 87972 235710 172806 10890
60  137 C  1 60 1725 30720 179145 231364 81273
60  137 P  1 59 1666 29054 150091 81273
60  137 S  1 59 1669 29301 175931 232784 84543
60  138 C  1 60 1545 21916 134421 230760 125889 9408 288
60  138 P  1 59 1486 20430 113991 116769 9120 288
60  138 S  1 59 1501 21149 131257 231513 129097 9423 288
60  139 C  1 60 1725 30784 213810 231300 46608
60  139 P  1 59 1666 29118 184692 46608
60  139 S  1 59 1669 29366 207659 232719 52815
60  140 C  1 60 871 7200 36150 103564 165210 141720 59400 9600 512
60  140 P  1 59 812 6388 29762 73802 91408 50312 9088 512
60  140 S  1 59 871 7201 36150 103564 165210 141720 59400 9600 512
60  141 C  1 60 871 8120 49780 185392 208752 68560 2740 12
60  141 P  1 59 812 7308 42472 142920 65832 2728 12
60  141 S  1 59 871 8121 49780 185392 208752 68560 2740 12
60  142 C  1 60 871 8120 47910 161644 210482 92320 2880
60  142 P  1 59 812 7308 40602 121042 89440 2880
60  142 S  1 59 871 8121 47910 161644 210482 92320 2880
60  143 C  1 60 1356 14452 75678 192228 179070 55404 6039
60  143 P  1 59 1297 13155 62523 129705 49365 6039
60  143 S  1 59 1322 14105 74414 190765 180086 57215 6321
60  144 C  1 60 871 7744 45360 154932 208952 99336 6960 72
60  144 P  1 59 812 6932 38428 116504 92448 6888 72
60  144 S  1 59 871 7745 45360 154932 208952 99336 6960 72
60  145 C  1 60 871 7264 37110 110220 179162 144600 45000
60  145 P  1 59 812 6452 30658 79562 99600 45000
60  145 S  1 59 871 7265 37110 110220 179162 144600 45000
60  146 C  1 60 1515 13380 46260 96064 134880 126720 75600 25920 3888
60  146 P  1 59 1456 11924 34336 61728 73152 53568 22032 3888
60  146 S  1 59 1467 13141 46308 96304 134880 126720 75600 25920 3888
60  147 C  1 60 871 8120 48816 148512 186784 100332 25160 5120 512
60  147 P  1 59 812 7308 41508 107004 79780 20552 4608 512
60  147 S  1 59 871 8121 48816 148512 186784 100332 25160 5120 512
60  148 C  1 60 791 6020 29540 91344 164820 154480 66480 10240 512
60  148 P  1 59 732 5208 24252 67092 97728 56752 9728 512
60  148 S  1 59 791 6021 29540 91344 164820 154480 66480 10240 512
60  149 C  1 60 1428 17420 96521 223120 163696 21544 498
60  149 P  1 59 1369 16051 80470 142650 21046 498
60  149 S  1 59 1388 16869 94817 222876 165424 22340 514
60  150 C  1 60 727 4640 17706 44712 80082 106224 106980 82732 49104 22080 7304
                  1680 240 16
60  150 P  1 59 668 3972 13734 30978 49104 57120 49860 32872 16232 5848 1456
                  224 16
60  150 S  1 59 727 4641 17706 44712 80082 106224 106980 82732 49104 22080 7304
                  1680 240 16
60  151 C  1 60 1428 15004 75891 197736 181830 49320 2994 24
60  151 P  1 59 1369 13635 62256 135480 46350 2970 24
```

Table 2 (continued)

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 n    #   T  Coset weights
 --  ----  -  ---------------------------------
 60  151  S  1 59 1380 14669 75107 197476 182654 49916 2994 24
 60  152  C  1 60 1171 9560 39034 95276 140370 131320 76880 25920 3888
 60  152  P  1 59 1112 8448 31386 63890 76480 54040 22032 3888
 60  152  S  1 59 1147 9453 39706 95320 140522 131392 76880 25920 3888
 60  153  C  1 60 1250 11220 52065 145444 175826 99700 31665 5720 537
 60  153  P  1 59 1191 10029 42836 102608 73218 26482 5183 537
 60  153  S  1 59 1220 11046 52535 145299 176094 100015 31757 5725 537
 60  154  C  1 60 1590 19084 108678 243000 151875
 60  154  P  1 59 1531 17553 91125 151875
 60  154  S  1 59 1543 18410 105350 243675 155250
 60  155  C  1 60 1725 28700 155330 219688 105088 13696
 60  155  P  1 59 1666 27034 128296 91392 13696
 60  155  S  1 59 1669 27357 154938 221032 105536 13696
 60  156  C  1 60 1545 20428 138327 239355 122265 2301 6
 60  156  P  1 59 1486 18942 119385 119970 2295 6
 60  156  S  1 59 1501 19790 134579 239940 126057 2355 6
 60  157  C  1 60 1725 27256 157890 226188 102528 8640
 60  157  P  1 59 1666 25590 132300 93888 8640
 60  157  S  1 59 1669 26057 153570 225852 106904 10176
 60  158  C  1 60 1473 15380 93635 229064 167035 16840
 60  158  P  1 59 1414 13966 79669 150195 16840
 60  158  S  1 59 1433 15205 93319 229983 167391 16897
 60  159  C  1 60 1473 13924 77955 205812 182715 42348
 60  159  P  1 59 1414 12510 65445 140367 42348
 60  159  S  1 59 1433 13701 77691 205827 183019 42477
 60  160  C  1 60 1515 20900 136925 221008 123703 20176
 60  160  P  1 59 1456 19444 117481 103527 20176
 60  160  S  1 59 1467 19977 132061 221204 128615 20024
 60  161  C  1 60 1473 15580 96822 232444 163848 14060
 60  161  P  1 59 1414 14166 82656 149788 14060
 60  161  S  1 59 1433 15401 96506 232600 164204 14084
 60  162  C  1 60 1329 7100 22026 48372 80260 102996 102960 80080 48048 21840
                  7280 1680 240 16
 60  162  P  1 59 1270 5830 16196 32176 48084 54912 48048 32032 16016 5824 1456
                  224 16
 60  162  S  1 59 1289 7021 21986 48412 80332 103036 102968 80080 48048 21840
                  7280 1680 240 16
 60  163  C  1 60 763 4580 19380 59004 122000 158500 120000 40000
 60  163  P  1 59 704 3876 15504 43500 78500 80000 40000
 60  163  S  1 59 763 4581 19380 59004 122000 158500 120000 40000
 60  164  C  1 60 1477 18040 118715 228658 141951 14586
 60  164  P  1 59 1418 17422 101293 127365 14586
 60  164  S  1 59 1435 18208 116069 229096 144639 14781
 60  165  C  1 60 1770 33300 247111 474664 275166 16264 240
 60  165  P  1 59 1711 31589 215522 259142 16024 240
 60  165  S  1 59 1711 31667 241683 476061 280653 16501 240
 60  166  C  1 60 1590 24496 207247 480736 314874 18996 576
 60  166  P  1 59 1531 22965 184282 296454 18420 576
 60  166  S  1 59 1543 23552 199270 480558 322806 20119 588
 60  167  C  1 60 1770 33364 297301 490864 225216
 60  167  P  1 59 1711 31653 265648 225216
 60  167  S  1 59 1711 31732 285627 492488 236949 9
 60  168  C  1 60 1322 14480 96496 370452 420907 139272 5562 24
 60  168  P  1 59 1263 13217 83279 287173 133734 5538 24
 60  168  S  1 59 1292 14270 95712 369594 421625 140335 5658 30
 60  169  C  1 60 1322 14480 91096 319224 425959 190524 5910
 60  169  P  1 59 1263 13217 77079 241345 184624 5910
 60  169  S  1 59 1292 14270 90440 318304 426645 191655 5910
```

<div align="center">Table 2 (continued)</div>

```
 n    #   T  Coset weights
--  ----  -  ------------------------------
60   170  C  1 60 1322 14104 88486 309376 420487 200604 13992 144
60   170  P  1 59 1263 12841 75645 233731 186756 13848 144
60   170  S  1 59 1292 13894 87826 308784 421119 201407 14050 144
60   171  C  1 60 1575 16340 73336 186224 290400 269824 151200 51840 7776
60   171  P  1 59 1516 14824 58512 127712 162688 107136 44064 7776
60   171  S  1 59 1527 16053 73368 186512 290416 269824 151200 51840 7776
60   172  C  1 60 1322 14480 94598 297052 376903 202452 50440 10244 1024
60   172  P  1 59 1263 13217 81381 215671 161232 41220 9220 1024
60   172  S  1 59 1292 14270 93846 296492 377559 203223 50566 10244 1024
60   173  C  1 60 1207 11020 57836 182984 331260 309744 132960 20480 1024
60   173  P  1 59 1148 9872 47964 135020 196240 113504 19456 1024
60   173  S  1 59 1183 10901 57644 183004 331476 309844 132960 20480 1024
60   174  C  1 60 1428 17420 96521 223120 277330 223912 131856 56704 16896 3072
                256
60   174  P  1 59 1369 16051 80470 142650 134680 89232 42624 14080 2816 256
60   174  S  1 59 1388 16869 94817 222876 278946 224708 131984 56704 16896 3072
                256
60   175  C  1 60 1124 8840 35743 89924 160164 212448 213960 165464 98208 44160
                14608 3360 480 32
60   175  P  1 59 1065 7775 27968 61956 98208 114240 99720 65744 32464 11696 2912
                448 32
60   175  S  1 59 1104 8771 35763 89994 160164 212448 213960 165464 98208 44160
                14608 3360 480 32
60   176  C  1 60 1428 15004 75891 197736 283896 249024 145920 59392 16896 3072
                256
60   176  P  1 59 1369 13635 62256 135480 148416 100608 45312 14080 2816 256
60   176  S  1 59 1388 14669 75107 197476 284720 249620 145920 59392 16896 3072
                256
60   177  C  1 60 1266 11960 60335 175396 296430 285032 158480 51840 7776
60   177  P  1 59 1207 10753 49582 125814 170616 114416 44064 7776
60   177  S  1 59 1236 11778 59923 175049 296592 285562 158760 51840 7776
60   178  C  1 60 1590 22688 166518 501540 356179
60   178  P  1 59 1531 21157 145361 356179
60   178  S  1 59 1543 21834 160036 488835 362708 13560
60   179  C  1 60 1725 30100 194210 439856 328352 54272
60   179  P  1 59 1666 28434 165776 274080 54272
60   179  S  1 59 1669 28729 193370 441228 329248 54272
60   180  C  1 60 1545 21344 158707 466050 363358 36834 597
60   180  P  1 59 1486 19858 138929 327121 36237 597
60   180  S  1 59 1501 20630 154145 462319 368044 41280 597
60   181  C  1 60 1725 29372 226050 477576 296512 17280
60   181  P  1 59 1666 27706 198344 279232 17280
60   181  S  1 59 1669 28073 218154 475132 304464 21024
60   182  C  1 60 1473 15580 98735 371024 418599 137600 5480 24
60   182  P  1 59 1414 14166 84569 286455 132144 5456 24
60   182  S  1 59 1433 15401 98387 370901 418987 137903 5480 24
60   183  C  1 60 1473 14828 89775 309912 419059 199344 13980 144
60   183  P  1 59 1414 13414 76361 233551 185508 13836 144
60   183  S  1 59 1433 14665 89471 309801 419383 199619 14000 144
60   184  C  1 60 1515 20900 136925 323376 333623 169712 51200 10240 1024
60   184  P  1 59 1456 19444 117481 205895 127728 41984 9216 1024
60   184  S  1 59 1467 19977 132061 320436 338535 173576 51200 10240 1024
60   185  C  1 60 1473 15580 96822 297264 374640 201144 50320 10240 1024
60   185  P  1 59 1414 14166 82656 214608 160040 41104 9216 1024
60   185  S  1 59 1433 15401 96506 297252 375004 201336 50320 10240 1024
60   186  C  1 60 1329 9220 35478 89532 160224 212460 213960 165464 98208 44160
                14608 3360 480 32
60   186  P  1 59 1270 7950 27528 62004 98220 114240 99720 65744 32464 11696 2912
                448 32
```

Table 2 (continued)

```
n    #   T  Coset weights
--  ---- -  --------------------------------
60  186  S  1 59 1289 9137 35438 89576 160296 212500 213968 165464 98208 44160
               14608 3360 480 32
60  187  C  1 60 763 4580 19380 61008 143280 246960 297360 211680 63504
60  187  P  1 59 704 3876 15504 45504 97776 149184 148176 63504
60  187  S  1 59 763 4581 19380 61008 143280 246960 297360 211680 63504
60  188  C  1 60 1477 18840 118715 312884 349251 182264 53820 10240 1024
60  188  P  1 59 1418 17422 101293 211591 137660 44604 9216 1024
60  188  S  1 59 1435 18208 116069 312134 351875 183647 53884 10240 1024
60  189  C  1 60 1770 27765 216405 685935 116640
60  189  P  1 59 1693 23908 152649 334422 11556
60  189  S  1 59 1711 26658 208122 666738 145287
60  190  C  1 60 1710 27015 216675 704700 98415
60  190  P  1 58 1593 22845 150663 340676 8452
60  190  S  1 59 1654 25899 207669 682317 130977
60  191  C  1 60 1725 27780 211470 490560 314040 2940
60  191  P  1 59 1648 24292 153556 250916 93656 160
60  191  S  1 59 1669 26601 204118 492844 319384 3900
60  192  C  1 60 1725 29900 274500 637096 105294
60  192  P  1 59 1666 27354 222862 262230 10116
60  192  S  1 59 1669 28533 262940 643888 111486
60  193  C  1 60 1725 28580 248490 480840 288880
60  193  P  1 59 1663 26197 184724 227068 84576
60  193  S  1 59 1669 27247 235292 484076 297928 2304
60  194  C  1 60 1530 21612 181428 624816 218925 204
60  194  P  1 58 1413 18774 140120 320971 42951
60  194  S  1 59 1486 20847 175153 619325 231489 216
60  195  C  1 60 1665 26790 223530 583356 207414 5760
60  195  P  1 58 1545 23016 163786 290927 44763 192
60  195  S  1 59 1612 25620 214474 584708 216342 5760
60  196  C  1 60 1665 25800 181770 457440 379920 1920
60  196  P  1 58 1542 21652 127415 244682 128938
60  196  S  1 58 1612 24720 175765 450067 385376 2976
60  197  C  1 60 1595 22320 170620 482130 361500 10350
60  197  P  1 59 1518 19778 130028 262184 110480 240
60  197  S  1 59 1547 21525 164884 478246 369396 12918
60  198  C  1 60 1626 25175 219699 677419 123804 792
60  198  P  1 59 1567 23145 180370 304719 14403 24
60  198  S  1 59 1576 24191 211771 674280 135864 834
60  199  C  1 60 1566 22140 175584 555912 291081 2232
60  199  P  1 58 1428 18714 130486 296230 77341 30
60  199  S  1 59 1519 21291 169023 550483 303605 2595
60  200  C  1 60 1575 15980 68420 177840 304700 320000 160000
60  200  P  1 59 1498 13722 49908 112476 162624 136000 48000
60  200  S  1 59 1527 15705 68560 177992 304732 320000 160000
60  201  C  1 60 1595 24920 236273 667291 118406 30
60  201  P  1 59 1536 23212 193804 294884 10792
60  201  S  1 59 1547 23933 226461 666749 129796 30
60  202  C  1 60 1515 20780 165030 450090 362620 48480
60  202  P  1 59 1453 18931 132476 246808 122032 1728
60  202  S  1 59 1467 19867 156540 440894 375412 54336
60  203  C  1 60 1626 25360 229502 663124 128723 180
60  203  P  1 59 1567 23528 186004 301312 11817
60  203  S  1 59 1576 24358 220700 661698 140001 183
60  204  C  1 60 1428 14615 71535 191589 335020 426744 7560 24
60  204  P  1 59 1369 13246 58289 133300 201720 115770 534
60  204  S  1 59 1388 14320 71075 191805 335504 426824 7576 24
60  205  C  1 60 1522 21260 170535 536280 303948 14910 60
60  205  P  1 59 1451 19281 134694 297078 70368 1356
```

Table 2 (continued)

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 n    #  T  Coset weights
--  ---- -  ------------------------------
60  205  S  1 59 1477 20457 164247 531315 315177 15783 60
60  206  C  1 60 1590 24496 222798 1024020 824187
60  206  P  1 59 1531 22965 199833 824187
60  206  S  1 59 1543 23552 212708 974655 834324 50310
60  207  C  1 60 1725 31640 256595 800812 786895 216064 3360
60  207  P  1 59 1666 29974 226621 574191 212704 3360
60  207  S  1 59 1669 30143 249315 801145 794231 217229 3360
60  208  C  1 60 1545 21916 180372 788220 862989 238380 3669
60  208  P  1 59 1486 20430 159942 628278 234711 3669
60  208  S  1 59 1501 21149 173963 765468 869334 261900 3777
60  209  C  1 60 1725 31264 307305 982692 739545 34560
60  209  P  1 59 1666 29598 277707 704985 34560
60  209  S  1 59 1669 29804 292167 957249 754739 61464
60  210  C  1 60 871 8120 52850 245812 637196 740364 354700 54200 2958 20
60  210  P  1 59 812 7308 45542 200270 436926 303438 51262 2938 20
60  210  S  1 59 871 8121 52850 245812 637196 740364 354700 54200 2958 20
60  211  C  1 60 1473 19640 152003 666028 880038 362800 15061 48
60  211  P  1 59 1414 18226 133777 532251 347787 15013 48
60  211  S  1 59 1433 19059 148511 657996 883306 371413 15325 49
60  212  C  1 60 871 8120 47910 177132 348882 444480 428160 324640 192672 87360
              29120 6720 960 64
60  212  P  1 59 812 7308 40602 136530 212352 232128 196032 128608 64064 23296
              5824 896 64
60  212  S  1 59 871 8121 47910 177132 348882 444480 428160 324640 192672 87360
              29120 6720 960 64
60  213  C  1 60 1473 18856 139908 570192 870708 459180 36486 288
60  213  P  1 59 1414 17442 122466 447726 422902 36190 288
60  213  S  1 59 1433 18335 136968 564339 872696 465555 37478 288
60  214  C  1 60 871 7744 46410 194712 545288 802500 456006 43560
60  214  P  1 59 812 6932 39478 155234 390054 412446 43560
60  214  S  1 59 871 7745 46410 194712 545288 802500 456006 43560
60  215  C  1 60 1515 20900 136925 398752 592183 525184 302400 103680 15552
60  215  P  1 59 1456 19444 117481 281271 310912 214272 88128 15552
60  215  S  1 59 1467 19977 132061 393948 597095 530912 302400 103680 15552
60  216  C  1 60 1473 19640 150045 548388 785219 460008 109790 20480 2048
60  216  P  1 59 1414 18226 131819 416569 368650 91358 18432 2048
60  216  S  1 59 1433 19059 146585 543190 787755 465776 110754 20492 2048
60  217  C  1 60 791 6020 29540 98552 230860 387720 472810 420780 272414 126580
              41040 8800 1120 64
60  217  P  1 59 732 5288 24252 74300 156560 231160 241650 179130 93284 33296
              7744 1056 64
60  217  S  1 59 791 6021 29540 98552 230860 387720 472810 420780 272414 126580
              41040 8800 1120 64
60  218  C  1 60 1329 13280 62007 171672 320347 431712 436140 336268 198528
              88800 29264 6720 960 64
60  218  P  1 59 1270 12010 49997 121675 198672 233040 203100 133168 65360 23440
              5824 896 64
60  218  S  1 59 1289 12795 60247 168669 317899 431721 438444 339028 200312
              89504 29424 6736 960 64
60  219  C  1 60 763 4580 19380 62016 155040 310080 503880 671840 369512
60  219  P  1 59 704 3876 15504 46512 108528 201552 302328 369512
60  219  S  1 59 763 4581 19380 62016 155040 310080 503880 671840 369512
60  220  C  1 60 1477 18840 118715 367756 595311 558240 317520 103680 15552
60  220  P  1 59 1418 17422 101293 266463 328848 229392 88128 15552
60  220  S  1 59 1435 18208 116069 365737 597567 560892 317952 103680 15552
60  221  C  1 60 1770 28125 230730 853126 816075 167265
60  221  P  1 59 1711 26414 204316 648810 167265
60  221  S  1 59 1711 27006 222014 828974 824850 192537
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Table 2 (continued)

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n    #    T  Coset weights
--  ----  -  -----------------------------
60  222  C  1 60 1590 21787 160161 567045 886824 459684
60  222  P  1 59 1531 20256 139905 427140 459684
60  222  S  1 59 1543 21023 154805 557640 892227 469854
60  223  C  1 60 1770 28726 243690 921375 803115 98415
60  223  P  1 59 1711 27015 216675 704700 98415
60  223  S  1 59 1711 27553 233570 889987 813294 130977
60  224  C  1 60 1725 28140 234270 698176 809640 322200 2940
60  224  P  1 59 1666 26474 207796 490380 319260 2940
60  224  S  1 59 1669 26949 225526 693280 817480 328288 3900
60  225  C  1 60 1725 29900 287960 881716 758890 136900
60  225  P  1 59 1666 28234 259726 621990 136900
60  225  S  1 59 1669 28533 275568 876972 771338 143012
60  226  C  1 60 1725 28700 263970 717256 782880 302560
60  226  P  1 59 1666 27034 236936 480320 302560
60  226  S  1 59 1669 27357 249242 704712 795360 316448 2304
60  227  C  1 60 1590 23143 203040 806244 843741 219129 204
60  227  P  1 59 1531 21612 181428 624816 218925 204
60  227  S  1 59 1543 22334 196002 794470 850814 231705 216
60  228  C  1 60 1725 28456 250320 806886 790770 213174 5760
60  228  P  1 59 1666 26790 223530 583356 207414 5760
60  228  S  1 59 1669 27233 240096 799102 801050 222102 5760
60  229  C  1 60 1725 27466 207570 639210 837360 381840 1920
60  229  P  1 59 1666 25800 181770 457440 379920 1920
60  229  S  1 59 1669 26333 200487 633832 843443 388352 2976
60  230  C  1 60 1595 22680 184900 636976 851730 388860 10350
60  230  P  1 59 1536 21144 163756 473220 378510 10350
60  230  S  1 59 1547 21873 178644 628184 855466 398460 12918
60  231  C  1 60 1626 25175 227894 849679 818083 173662 972
60  231  P  1 59 1567 23608 204286 645393 172690 972
60  231  S  1 59 1576 24191 219442 838679 826537 185647 1020
60  232  C  1 60 1626 23707 197724 731496 846993 293313 2232
60  232  P  1 59 1567 22140 175584 555912 291081 2232
60  232  S  1 59 1576 22811 190316 719506 854088 306200 2595
60  233  C  1 60 1575 16340 77660 237856 489340 634320 480000 160000
60  233  P  1 59 1516 14824 62836 175020 314320 320000 160000
60  233  S  1 59 1527 16053 77644 238128 489404 634336 480000 160000
60  234  C  1 60 1595 24920 239893 846276 806157 177320 930
60  234  P  1 59 1536 23384 216509 629767 176390 930
60  234  S  1 59 1547 23933 229789 835928 816309 188656 930
60  235  C  1 60 1515 20900 171690 552796 799890 474700 75480 120
60  235  P  1 59 1456 19444 152246 400550 399340 75360 120
60  235  S  1 59 1467 19977 162650 537268 800962 491056 83496 216
60  236  C  1 60 1626 25360 233022 854629 813387 168518 540 9
60  236  P  1 59 1567 23793 209229 645400 167987 531 9
60  236  S  1 59 1576 24358 224170 843885 822274 180265 555 9
60  237  C  1 60 1428 14615 71535 191589 335020 426744 418320 321424 192192
               87360 29120 6720 960 64
60  237  P  1 59 1369 13246 58289 133300 201720 225024 193296 128128 64064 23296
               5824 896 64
60  237  S  1 59 1380 14320 71075 191805 335504 426824 418336 321424 192192
               87360 29120 6720 960 64
60  238  C  1 60 1266 11960 64569 223447 494740 653109 488000 160000
60  238  P  1 59 1207 10753 53016 169631 325109 328000 160000
60  238  S  1 59 1236 11778 64109 222820 494830 653919 488400 160000
60  239  C  1 60 1522 21420 177815 687793 852648 339243 16590 60
60  239  P  1 59 1463 19957 157858 529935 322713 16530 60
60  239  S  1 59 1477 20617 171407 677413 858255 350427 17436 60
60  240  C  1 60 1590 24496 222798 1024020 1496499 983520 370620 64816 5640 240
               4
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Table 2 (continued)

n	#	T	Coset weights
60	240	P	1 59 1531 22965 199833 824187 672312 311208 59412 5404 236 4
60	240	S	1 59 1543 23552 212708 974655 1463076 1014918 411300 83548 8516 420 8
60	241	C	1 60 1770 34220 299271 1165272 1781982 897596 14128 4
60	241	P	1 59 1711 32509 266762 898510 883472 14124 4
60	241	S	1 59 1711 32509 291431 1164653 1789881 899927 14128 4
60	242	C	1 60 1590 24496 235243 1225036 1822560 847104 37752 456 6
60	242	P	1 59 1531 22965 212278 1012758 809802 37302 450 6
60	242	S	1 59 1543 23552 225267 1181167 1828551 891900 41784 474 6
60	243	C	1 60 1770 33844 369151 1599856 1724502 463392 1728
60	243	P	1 59 1711 32133 337018 1262838 461664 1728
60	243	S	1 59 1711 32170 350914 1557260 1742726 507663 1800
60	244	C	1 60 1322 14480 102621 491232 1277729 1482936 709563 108404 5916 40
60	244	P	1 59 1263 13217 89404 401828 875901 607035 102528 5876 40
60	244	S	1 59 1292 14270 101741 489693 1277623 1484606 710577 108484 5918 40
60	245	C	1 60 1626 26420 256227 1280568 1806448 790008 32850 96
60	245	P	1 59 1567 24853 231374 1049194 757254 32754 96
60	245	S	1 59 1576 25316 245261 1250850 1815834 820805 34480 122
60	246	C	1 60 1322 14480 91096 348692 702629 896352 856600 649280 385344 174720 58240 13440 1920 128
60	246	P	1 59 1263 13217 77879 270813 431816 464536 392064 257216 128128 46592 11648 1792 128
60	246	S	1 59 1292 14270 90440 347594 703315 897661 856600 649280 385344 174720 58240 13440 1920 128
60	247	C	1 60 1626 25636 236437 1079788 1772868 991092 86220 576
60	247	P	1 59 1567 24069 212368 867420 905448 85644 576
60	247	S	1 59 1576 24592 227039 1057790 1777928 1014135 90608 576
60	248	C	1 60 1322 14104 90541 388276 1092313 1607592 912975 87120
60	248	P	1 59 1263 12841 77700 310576 781737 825855 87120
60	248	S	1 59 1292 13894 89849 387137 1091029 1608762 914181 87300
60	249	C	1 60 1575 23860 193341 744352 1266320 1121520 604803 207360 31104
60	249	P	1 59 1516 22344 170997 573355 692973 428547 176256 31104
60	249	S	1 59 1527 22889 186733 733548 1272984 1133296 604803 207360 31104
60	250	C	1 60 1626 26420 252476 1053268 1613013 976428 225140 40976 4096
60	250	P	1 59 1567 24853 227623 825645 788168 188260 36880 4096
60	250	S	1 59 1576 25316 241702 1033705 1620175 997060 229602 41012 4096
60	251	C	1 60 1207 11020 57836 197212 463340 776412 945620 841560 544828 253160 82080 17600 2240 128
60	251	P	1 59 1148 9072 47964 149248 314092 462320 483300 358260 186568 66592 15488 2112 128
60	251	S	1 59 1183 10901 57644 197170 463556 776574 945620 841560 544828 253160 82080 17600 2240 128
60	252	C	1 60 1428 17420 112945 346544 651994 869424 873280 672536 397056 177600 50528 13440 1920 128
60	252	P	1 59 1369 16051 96894 249650 402344 467080 406200 266336 130720 46880 11648 1792 128
60	252	S	1 59 1388 16869 109785 340218 646698 869342 877888 678056 400624 179008 50848 13472 1920 128
60	253	C	1 60 763 4580 19380 62016 155040 310080 503880 671840 739024 671840 503880 310080 155040 62016 19380 4560 760 80 4
60	253	P	1 59 704 3876 15504 46512 108528 201552 302328 369512 369512 302328 201552 108528 46512 15504 3876 684 76 4
60	253	S	1 59 763 4581 19380 62016 155040 310080 503880 671840 739024 671840 503880 310080 155040 62016 19380 4560 760 80 4
60	254	C	1 60 1522 21420 160363 618856 1212482 1248400 691680 208416 31104
60	254	P	1 59 1463 19957 140406 478450 734032 514368 177312 31104
60	254	S	1 59 1477 20617 155707 610684 1212587 1257256 696276 208536 31104
60	255	C	1 60 1770 31560 317310 1473512 1774831 592020 3240

<div align="center">Table 2 (continued)</div>

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 n    #  T  Coset weights
 --  ----  -  ------------------------------
 60  255  P  1 59 1711 29849 287461 1186051 588780 3240
 60  255  S  1 59 1711 30099 300938 1406898 1790398 660096 4104
 60  256  C  1 60 1770 31802 324390 1518540 1770991 546750
 60  256  P  1 59 1711 30091 294299 1224241 546750
 60  256  S  1 59 1711 30323 307419 1447290 1788021 619480
 60  257  C  1 60 1725 28140 234270 831392 1378200 1160760 478860 76800 4096
 60  257  P  1 59 1666 26474 207796 623596 754604 406156 72704 4096
 60  257  S  1 59 1669 26949 225526 824768 1386040 1168576 479820 76800 4096
 60  258  C  1 60 1725 30100 297860 1361396 1769286 705500 28280 96
 60  258  P  1 59 1666 28434 269426 1091970 677316 28184 96
 60  258  S  1 59 1669 28729 285116 1338756 1781846 729512 28520 96
 60  259  C  1 60 1725 30100 302850 1266032 1765696 800960 26880
 60  259  P  1 59 1666 28434 274416 991616 774080 26880
 60  259  S  1 59 1669 28729 287674 1240908 1775808 827456 32000
 60  260  C  1 60 1590 24044 222900 1125042 1815493 947994 57168 12
 60  260  P  1 59 1531 22513 200387 924655 890838 57156 12
 60  260  S  1 59 1543 23145 214406 1096369 1819344 977556 61858 23
 60  261  C  1 60 1725 29372 283380 1196496 1749166 870648 62880 576
 60  261  P  1 59 1666 27706 255674 940822 808344 62304 576
 60  261  S  1 59 1669 28073 271044 1178808 1760310 889636 64128 576
 60  262  C  1 60 1725 28382 240750 885270 1492756 1183440 361920
 60  262  P  1 59 1666 26716 214034 671236 821520 361920
 60  262  S  1 59 1669 27173 231659 877648 1500751 1192272 363072
 60  263  C  1 60 1595 22680 184900 741032 1400130 1256580 506430 76800 4096
 60  263  P  1 59 1536 21144 163756 577276 822854 433726 72704 4096
 60  263  S  1 59 1547 21873 178644 729648 1402138 1268772 510726 76800 4096
 60  264  C  1 60 1626 25360 236114 1225784 1813029 845132 46382 816
 60  264  P  1 59 1567 23793 212321 1013463 799566 45566 816
 60  264  S  1 59 1576 24358 226958 1193870 1818657 878037 49960 828
 60  265  C  1 60 1626 24608 218664 1011396 1765489 1060032 111372 1056
 60  265  P  1 59 1567 23041 195623 815773 949716 110316 1056
 60  265  S  1 59 1576 23622 209656 985170 1765235 1087187 120684 1114
 60  266  C  1 60 1575 16340 77660 245872 574460 988160 1189440 846720 254016
 60  266  P  1 59 1516 14824 62836 183036 391424 596736 592704 254016
 60  266  S  1 59 1527 16053 77644 246144 574524 988176 1189440 846720 254016
 60  267  C  1 60 1595 24920 239893 1063676 1628157 967536 223410 40960 4096
 60  267  P  1 59 1536 23384 216509 847167 780990 186546 36864 4096
 60  267  S  1 59 1547 23933 229789 1041332 1636005 990868 225714 40960 4096
 60  268  C  1 60 1515 20900 171690 669332 1334770 1317260 585080 89600 4096
 60  268  P  1 59 1456 19444 152246 517086 817684 499576 85504 4096
 60  268  S  1 59 1467 19977 162650 647240 1323554 1336500 605384 93376 4096
 60  269  C  1 60 1626 25360 233022 1026624 1631147 1003884 227260 41224 4096
 60  269  P  1 59 1567 23793 209229 817395 813752 190132 37128 4096
 60  269  S  1 59 1576 24358 224170 1005558 1636025 1025889 231284 41288 4096
 60  270  C  1 60 1428 16360 99291 338964 671928 886800 871320 664760 392032
                 176640 58432 13440 1920 128
 60  270  P  1 59 1369 14991 84300 254664 417264 469536 401784 262976 129856
                 46784 11648 1792 128
 60  270  S  1 59 1388 15911 97451 336334 671392 888920 873576 665720 392992
                 176640 58432 13440 1920 128
 60  271  C  1 60 1522 21420 177815 816944 1552788 1210882 360810 47846 4196
 60  271  P  1 59 1463 19957 157858 659086 893702 317180 43650 4196
 60  271  S  1 59 1477 20617 171407 798122 1550851 1229880 369213 48474 4203
 60  272  C  1 60 1770 32225 328245 1592983 2114280 124740
 60  272  P  1 59 1711 29310 267925 1058610 737184 2352
 60  272  S  1 59 1711 30710 312917 1534187 2177883 136836
 60  273  C  1 60 1530 21612 184815 981720 2683170 321030 360 6
 60  273  P  1 58 1413 18774 147942 705132 1201248 22572 12
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                              Table 2 (continued)

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n    #   T   Coset weights
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60  273  S   1 59 1486 20847 178191 952434 2658600 382302 378 6
60  274  C   1 60 1710 29070 290430 1436568 2204235 232230
60  274  P   1 58 1596 25560 229860 941388 868851 29838
60  274  S   1 59 1654 27756 276058 1378685 2233777 276314
60  275  C   1 60 1725 30100 308910 1447688 1967180 433800 4840
60  275  P   1 59 1666 27986 269080 964144 761360 72856
60  275  S   1 59 1669 28729 294630 1423676 1995940 444760 4840
60  276  C   1 60 1725 31220 372330 2190892 1572240 25776 60
60  276  P   1 59 1666 29286 330700 1372362 362838 240
60  276  S   1 59 1669 29745 350750 2097154 1687390 27468 60
60  277  C   1 60 1725 28700 263970 796488 1372000 1708320 23040
60  277  P   1 59 1666 27034 236936 559552 812448 458112 1344
60  277  S   1 59 1669 27357 249242 779912 1376032 1722656 37376
60  278  C   1 60 1665 28110 312435 1737792 2029005 84870 360 6
60  278  P   1 58 1545 24864 251715 1114545 701388 3024 12
60  278  S   1 59 1612 26832 294631 1659947 2114778 96078 360 6
60  279  C   1 60 1665 26790 227460 934008 2057685 946395 240
60  279  P   1 58 1545 23016 173412 625491 1052549 221080
60  279  S   1 59 1612 25620 218212 919884 2059493 969103 320
60  280  C   1 60 1595 24920 246930 1274138 2124080 516900 5680
60  280  P   1 59 1536 23212 215358 875102 890872 90916 96
60  280  S   1 59 1547 23993 236382 1243065 2140793 542556 5968
60  281  C   1 60 1473 15580 101250 432824 1185460 1552920 807520 94080 3136
60  281  P   1 59 1414 13901 83073 319592 737208 708272 221088 12544
60  281  S   1 59 1433 15401 100888 432606 1185860 1553320 807520 94080 3136
60  282  C   1 60 1530 15380 101475 445632 1231867 1935216 463200
60  282  P   1 59 1414 13966 87509 358123 873744 694624 67712
60  282  S   1 59 1433 15205 101099 445391 1232155 1935633 463328
60  283  C   1 60 1413 12510 67500 244692 612612 1050300 1181430 787530 236250 6
60  283  P   1 58 1245 10080 49644 163296 367668 560160 551286 314976 78738
60  283  S   1 59 1376 12404 67308 244524 612612 1050468 1181622 787638 236282 10
60  284  C   1 60 1575 23860 190445 699223 1277480 1332860 664480 4320
60  284  P   1 59 1516 21968 153289 461889 691554 569116 197760
60  284  S   1 59 1527 22889 184381 693345 1283722 1337756 666112 4512
60  285  C   1 60 1725 31640 391524 2306062 1455732 7560
60  285  P   1 59 1666 29904 347407 1418976 299127 12
60  285  S   1 59 1669 30143 368439 2209021 1576566 8406
60  286  C   1 60 1515 20900 171690 627708 1311970 1812780 227880 19080 720
60  286  P   1 59 1456 19444 152246 475462 836508 567792 42504 1680
60  286  S   1 59 1467 19977 162650 605988 1292690 1814592 275280 20880 720
60  287  C   1 60 1473 15580 104602 459592 1263300 1942176 401760 5760
60  287  P   1 59 1414 14166 90436 369156 894144 668896 50496 384
60  287  S   1 59 1433 15401 104226 459452 1263588 1942496 401888 5760
60  288  C   1 60 1522 21260 162535 658360 1334566 1376000 640000
60  288  P   1 59 1451 19281 134146 464322 727492 558400 192000
60  288  S   1 59 1477 20457 157315 648124 1339831 1387040 640000
60  289  C   1 60 1770 33300 376800 2270404 3786168 1890540 29565
60  289  P   1 59 1711 31589 345211 1925193 1860975 29565
60  289  S   1 59 1711 31667 354305 2140521 3787095 2022057 51192
60  290  C   1 60 1590 24496 236301 1411740 3026874 2757468 929529 540 9
60  290  P   1 59 1531 22965 213336 1198404 1828470 928998 531 9
60  290  S   1 59 1543 23552 225881 1347551 3006150 2822329 960720 813 9
60  291  C   1 60 1770 33364 379410 2330380 3813123 1822500
60  291  P   1 59 1711 31653 347757 1990623 1822500
60  291  S   1 59 1711 31732 357005 2206093 3832212 1956420 3375
60  292  C   1 60 1725 30720 312795 1534084 2891311 2474880 980260 154560 8212
60  292  P   1 59 1666 29054 283741 1250343 1640960 833912 146340 8212
60  292  S   1 59 1669 29301 297545 1490018 2896441 2520366 990436 154560 8212
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Table 2 (continued)

n	#	T	Coset weights
60	293	C	1 60 1725 31640 360245 2251492 3720003 1910740 112327 372 3
60	293	P	1 59 1666 29974 330271 1921221 1798782 111958 369 3
60	293	S	1 59 1669 30143 341061 2156767 3734827 2006963 116743 372 3
60	294	C	1 60 1725 31640 365235 2284204 3735183 1878400 92160
60	294	P	1 59 1666 29974 335261 1948943 1786240 92160
60	294	S	1 59 1669 30143 343619 2148121 3719735 2015981 129280
60	295	C	1 60 1590 24496 239670 1448088 3447012 2719044 506031 2616
60	295	P	1 59 1531 22965 216705 1231383 2215629 503415 2616
60	295	S	1 59 1543 23552 229434 1391853 3418703 2775414 544623 3426
60	296	C	1 60 1725 31264 356265 2152212 3697653 2009616 138660 1152
60	296	P	1 59 1666 29598 326667 1825545 1872108 137508 1152
60	296	S	1 59 1669 29804 336951 2057893 3704967 2105396 150716 1152
60	297	C	1 60 1725 30784 318765 1618740 3125493 2544720 748320
60	297	P	1 59 1666 29118 289647 1329093 1796400 748320
60	297	S	1 59 1669 29366 303110 1568388 3129980 2596491 759544
60	298	C	1 60 1595 22680 184900 850484 2127140 2786520 1818340 534560 62328
60	298	P	1 59 1536 21144 163756 686728 1440412 1346108 472232 62328
60	298	S	1 59 1547 21873 178644 930594 2108716 2799610 1842964 542168 62432
60	299	C	1 60 871 8120 52850 245812 814902 1827344 2555830 2014180 763938 98616 5910 172 2
60	299	P	1 59 812 7308 45542 200270 614632 1212712 1343118 671062 92876 5740 170 2
60	299	S	1 59 871 8121 52850 245812 814902 1827344 2555830 2014180 763938 98616 5910 172 2
60	300	C	1 60 871 8120 54810 283504 1101030 2686760 2965280 1215860 72312
60	300	P	1 59 812 7308 47502 236002 865028 1821732 1143548 72312
60	300	S	1 59 871 8121 54810 283504 1101030 2686760 2965280 1215860 72312
60	301	C	1 60 1626 26420 273560 1730468 3595521 2427724 323596 1632
60	301	P	1 59 1567 24853 248707 1489761 2105760 321964 1632
60	301	S	1 59 1576 25316 260634 1664349 3588447 2502802 343646 1698
60	302	C	1 60 871 8120 53760 260232 873618 1850724 2236806 1671712 906624 376320 118784 26880 3840 256
60	302	P	1 59 812 7308 46452 213780 659838 1190886 1045920 625792 280832 95488 23296 3584 256
60	302	S	1 59 871 8121 53760 260232 873618 1850724 2236806 1671712 906624 376320 118784 26880 3840 256
60	303	C	1 60 871 8120 54810 283504 1105852 2759380 2998930 1143240 33840
60	303	P	1 59 812 7308 47502 236002 869850 1889530 1109400 33840
60	303	S	1 59 871 8121 54810 283504 1105852 2759380 2998930 1143240 33840
60	304	C	1 60 1626 25636 253770 1499640 3437088 2664900 501819 4068
60	304	P	1 59 1567 24069 229701 1269939 2167149 497751 4068
60	304	S	1 59 1576 24592 242412 1442801 3412388 2722438 537927 4334
60	305	C	1 60 871 7744 46410 194712 583994 1261440 1949022 2100492 1495908 629856 118098
60	305	P	1 59 812 6932 39478 155234 428760 832680 1116342 984.50 511758 118098
60	305	S	1 59 871 7745 46410 194712 583994 1261440 1949022 2100492 1495908 629856 118098
60	306	C	1 60 1575 16340 77660 249904 621500 1240640 2015520 2687360 1478048
60	306	P	1 59 1516 14824 62836 187068 434432 806208 1209312 1478048
60	306	S	1 59 1527 16053 77644 250176 621564 1240656 2015520 2687360 1478048
60	307	C	1 60 1595 24920 239893 1217892 2604977 2536552 1285630 414880 62208
60	307	P	1 59 1536 23384 216509 1001383 1603594 932958 352672 62208
60	307	S	1 59 1547 23933 229789 1180704 2595689 2574536 1305070 415072 62208
60	308	C	1 60 1515 20900 171690 802864 2072130 2817520 1886760 552960 62208
60	308	P	1 59 1456 19444 152246 650618 1421512 1396008 490752 62208
60	308	S	1 59 1467 19977 162650 764690 2012386 2820330 1955592 589248 62208
60	309	C	1 60 1626 26420 270468 1523508 3204378 2551788 709239 92528 8592

Table 2 (continued)

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 n    #  T  Coset weights
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60  309 P  1 59 1567 24853 245615 1277893 1926485 625303 83936 8592
60  309 S  1 59 1576 25316 257846 1470113 3191316 2605825 734973 92991 8592
60  310 C  1 60 871 8120 52766 242252 769370 1603584 2077480 1792752 1124792
              512080 164544 35200 4480 256
60  310 P  1 59 812 7308 45458 196794 572576 1031008 1046472 746280 378512
              133568 30976 4224 256
60  310 S  1 59 871 8121 52766 242252 769370 1603584 2077480 1792752 1124792
              512080 164544 35200 4480 256
60  311 C  1 60 1428 17420 120681 518304 1242046 1849008 1893540 1424776 815712
              357600 117056 26880 3840 256
60  311 P  1 59 1369 16051 104630 413674 828372 1020636 872904 551872 263840
              93760 23296 3584 256
60  311 S  1 59 1388 16869 117481 508978 1230710 1845886 1900500 1434896 822688
              360416 117696 26944 3840 256
60  312 C  1 60 1266 11960 64569 231756 609700 1243488 2030040 2703200 1488619
              3840 109
60  312 P  1 59 1207 10753 53816 177940 431760 811728 1218312 1484888 3731 109
60  312 S  1 59 1236 11778 64109 231099 609182 1243488 2030568 2703860 1489089
              4020 119
60  313 C  1 60 1522 21420 177815 888856 2231898 2795616 1719780 488352 63288
60  313 P  1 59 1463 19957 157858 730998 1500900 1294716 425064 63288
60  313 S  1 59 1477 20617 171407 864841 2208939 2813943 1748928 494844 63552
60  314 C  1 60 1770 32225 345710 1871443 3722083 2290576 124740
60  314 P  1 59 1711 30514 315196 1556247 2165836 124740
60  314 S  1 59 1711 30710 329262 1800593 3726438 2362942 136892
60  315 C  1 60 1590 23143 206427 1166535 3664890 3004200 321390 366 6
60  315 P  1 59 1531 21612 184815 981720 2683170 321030 360 6
60  315 S  1 59 1543 22334 199040 1130625 3611034 3040902 382680 384 6
60  316 C  1 60 1770 30781 319500 1726998 3640803 2436465 232230
60  316 P  1 59 1711 29070 290430 1436568 2204235 232230
60  316 S  1 59 1711 29410 303816 1654744 3612462 2510091 276314
60  317 C  1 60 1725 30100 315910 1627440 3438028 2531806 438640 4840
60  317 P  1 59 1666 28434 287476 1339972 2098056 433800 4840
60  317 S  1 59 1669 28729 301182 1593356 3439764 2567320 451688 4840
60  318 C  1 60 1725 31220 379535 2415292 3767737 1747312 45306 420
60  318 P  1 59 1666 29554 349981 2065311 1702426 44886 420
60  318 S  1 59 1669 29745 357135 2299641 3784871 1864439 50628 420
60  319 C  1 60 1725 28700 263970 796488 1372000 1708320 1667520 1284160 768768
              349440 116480 26880 3840 256
60  319 P  1 59 1666 27034 236936 559552 812448 895872 771648 512512 256256
              93184 23296 3584 256
60  319 S  1 59 1669 27357 249242 779912 1376032 1722656 1677760 1287744 769280
              349440 116480 26880 3840 256
60  320 C  1 60 1725 29776 340545 2050227 3766797 2113875 85230 366 6
60  320 P  1 59 1666 28110 312435 1737792 2029005 84870 360 6
60  320 S  1 59 1669 28445 321465 1954578 3774725 2210856 96438 366 6
60  321 C  1 60 1725 28456 254250 1161468 2991693 3004080 946635 240
60  321 P  1 59 1666 26790 227460 934008 2057685 946395 240
60  321 S  1 59 1669 27233 243834 1138096 2979377 3028596 969423 320
60  322 C  1 60 1595 24920 250550 1385428 3332908 2773716 609250 10180
60  322 P  1 59 1536 23384 227166 1158262 2174646 599070 10180
60  322 S  1 59 1547 23933 239710 1347167 3314324 2812461 638722 10684
60  323 C  1 60 1473 15580 104770 491144 1630404 2782784 2360440 901600 97216
              3136
60  323 P  1 59 1414 14166 90604 400540 1229864 1552920 807520 94080 3136
60  323 S  1 59 1433 15401 104358 490664 1630336 2783444 2360960 901600 97216
              3136
60  324 C  1 60 1473 15380 101475 445632 1231867 1935216 1935840 1417600 803320
              353280 116480 26880 3840 256
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<div align="center">Table 2 (continued)</div>

n	#	T	Coset weights
45	82	P	1 44 946 13244 134281 1036028 6173754 27437632 64837702 33893117 690217 762
45	82	S	1 44 946 13244 134533 1044176 6361624 30284844 95900559 116240707 18362829 91224 723 2
45	83	C	1 45 990 13955 139635 1039950 5850910 24221430 67776210 107547210 58391280 3449520 4320
45	83	P	1 44 943 12895 124340 883081 4663134 17616696 42720966 51742260 16289208 164160
45	83	S	1 44 946 13038 127740 933939 5182482 21385344 60960894 103049940 68946040 7825536 9504
46	1	C	1 46 507 3542 3542 506 46 2
46	1	P	1 45 462 3080 462 44 2
46	1	S	1 45 507 3543 3542 506 46 2
46	2	C	1 46 1035 15180 149017 978098 4044251 3200980
46	2	P	1 45 990 14190 134827 843271 3200980
46	2	S	1 45 990 14190 136367 879153 3601270 3259930 453905 40986 1771
47	1	C	1 47 1081 16215 178365 1533939 4913145 1745815
47	1	P	1 46 1035 15180 163185 1243242 2554518 217097
47	1	S	1 46 1035 15180 163185 1370754 4784460 2052865 1035 46 1
47	2	C	1 47 1081 16215 178365 1533939 6155214 6837325 2053900 1081 47 1
47	2	P	1 46 1035 15180 163185 1370754 4784460 2052865 1035 46 1
47	2	S	1 46 1035 15180 163185 1370754 5804556 7000510 2419730 2116 93 2
48	1	C	1 48 231 464 560 448 224 64 8
48	1	P	1 47 184 280 280 168 56 8
48	1	S	1 47 231 465 560 448 224 64 8
48	2	C	1 48 363 912 1204 960 464 128 16
48	2	P	1 47 316 596 608 352 112 16
48	2	S	1 47 363 913 1204 960 464 128 16
48	3	C	1 48 435 1616 2636 2176 992 256 32
48	3	P	1 47 388 1228 1408 768 224 32
48	3	S	1 47 435 1617 2636 2176 992 256 32
48	4	C	1 48 397 1376 2434 2352 1232 320 32
48	4	P	1 47 350 1026 1408 944 288 32
48	4	S	1 47 397 1377 2434 2352 1232 320 32
48	5	C	1 48 435 1616 3544 4800 3088 1720 324
48	5	P	1 47 388 1228 2316 2484 1404 324
48	5	S	1 47 435 1617 3544 4800 3088 1720 324
48	6	C	1 48 483 2256 6452 10624 8800 3456 648
48	6	P	1 47 436 1820 4632 5992 2808 648
48	6	S	1 47 483 2257 6452 10624 8800 3456 648
48	7	C	1 48 758 4576 10176 10480 5321 1280 128
48	7	P	1 47 711 3865 6311 4169 1152 128
48	7	S	1 47 734 4486 10120 10555 5401 1296 128
48	8	C	1 48 489 2752 8186 11792 7580 1792 128
48	8	P	1 47 442 2310 5876 5916 1664 128
48	8	S	1 47 489 2753 8186 11792 7580 1792 128
48	9	C	1 48 483 2256 7000 14784 20384 15680 4900
48	9	P	1 47 436 1820 5180 9604 10780 4900
48	9	S	1 47 483 2257 7000 14784 20384 15680 4900
48	10	C	1 48 778 5200 16290 23872 15443 3648 256
48	10	P	1 47 731 4469 11821 12051 3392 256
48	10	S	1 47 754 5100 16170 23924 15587 3697 256
48	11	C	1 48 483 2256 7280 17472 32032 45760 25740
48	11	P	1 47 436 1820 5460 12012 20020 25740
48	11	S	1 47 483 2257 7280 17472 32032 45760 25740
48	12	C	1 48 806 5984 22912 44528 39225 14976 2592
48	12	P	1 47 759 5225 17687 26841 12384 2592
48	12	S	1 47 782 5870 22728 44571 39433 15040 2592

Table 2 (continued)

n	#	T	Coset weights

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n    #   T  Coset weights
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48   13 C  1 48 924 9088 32081 48848 32018 7552 512
48   13 P  1 47 877 8211 23870 24978 7040 512
48   13 S  1 47 888 8612 31289 49031 32846 7846 512
48   14 C  1 48 489 2752 9516 21216 31448 31488 21314 9584 2736 448 32
48   14 P  1 47 442 2310 7206 14010 17438 14050 7264 2320 416 32
48   14 S  1 47 489 2753 9516 21216 31448 31488 21314 9584 2736 448 32
48   15 C  1 48 483 2256 7280 17472 32032 45760 51480 45760 32032 17472 7280
              2240 480 64 4
48   15 P  1 47 436 1820 5460 12012 20020 25740 25740 20020 12012 5460 1820 420
              60 4
48   15 S  1 47 483 2257 7280 17472 32032 45760 51480 45760 32032 17472 7280
              2240 480 64 4
48   16 C  1 48 924 9088 41533 87376 83430 34560 5184
48   16 P  1 47 877 8211 33322 54054 29376 5184
48   16 S  1 47 888 8612 39805 86197 85194 36216 5184
48   17 C  1 48 891 5880 22596 54516 81816 70104 26286 6
48   17 P  1 46 759 4452 15120 31836 40908 29196 8754
48   17 S  1 47 862 5826 22540 54516 91872 70160 26310 10
48   18 C  1 48 806 5984 24921 67248 129200 186880 107143 1984 73
48   18 P  1 47 759 5225 19696 47552 91648 105232 1911 73
48   18 S  1 47 782 5870 24713 67083 129208 187048 107359 2096 81
48   19 C  1 48 972 10880 65018 179152 185779 72064 10374
48   19 P  1 47 925 9955 55063 124089 61690 10374
48   19 S  1 47 936 10368 62414 176065 188419 75664 10374
48   20 C  1 48 924 9088 37347 86256 127448 126624 85352 38336 10944 1792 128
48   20 P  1 47 877 8211 29136 57120 70320 56296 9280 1664 128
48   20 S  1 47 888 8612 36363 85857 128132 127452 85688 38384 10944 1792 128
48   21 C  1 48 553 4048 20022 65856 134392 149760 95912 40640 11136 1792 128
48   21 P  1 47 506 3542 16480 49376 85016 64744 31168 9472 1664 128
48   21 S  1 47 553 4049 20022 65856 134392 149760 95912 40640 11136 1792 128
48   22 C  1 48 939 6772 28476 77112 136332 151920 96390 26292 6
48   22 P  1 47 892 5880 22596 54516 81816 70104 26286 6
48   22 S  1 47 907 6689 28368 77056 136388 152032 96470 26320 10
48   23 C  1 48 972 10880 66747 217120 359968 294256 96547 1904 53
48   23 P  1 47 925 9955 56792 160328 199640 94616 1931 53
48   23 S  1 47 936 10368 64119 213018 361428 298669 97747 2106 57
48   24 C  1 48 842 7264 38754 131520 270179 300592 191984 81280 22272 3584 256
48   24 P  1 47 795 6469 32285 99235 170944 129640 62336 18944 3328 256
48   24 S  1 47 810 7132 38370 131052 270363 301161 192208 81312 22272 3584 256
48   25 C  1 48 939 7352 34332 104856 214096 289512 248670 122520 26250
48   25 P  1 47 892 6460 27872 76984 137112 152400 96270 26250
48   25 S  1 47 907 7253 34200 104800 214172 289640 248754 122548 26254
48   26 C  1 48 972 10880 67613 239632 517750 774208 461364 23808 876
48   26 P  1 47 925 9955 57658 181974 335776 430432 2293. 876
48   26 S  1 47 936 10368 64973 234805 516202 777796 465432 25560 972
48   27 C  1 48 972 10880 72067 272736 523938 578304 401661 178928 49425 7680
              512
48   27 P  1 47 925 9955 62112 210624 313314 264990 136671 42257 7168 512
48   27 S  1 47 936 10368 68407 259686 507582 576408 415161 192947 55849 9120
              640
48   28 C  1 48 988 11536 72282 261792 545641 605472 384608 162560 44544 7168
              512
48   28 P  1 47 941 10595 61607 200105 345536 259936 124672 37888 6656 512
48   28 S  1 47 952 11012 70086 258714 546529 608883 385952 162752 44544 7168
              512
48   29 C  1 48 553 4048 20036 77968 213680 420592 566418 485440 241256 60480
              5032
48   29 P  1 47 506 3542 17294 60674 153006 267586 298032 186608 54648 5032
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Table 2 (continued)

n	♦	T	Coset weights
48	29	S	1 47 553 4049 20836 77968 213680 420592 566418 485440 241256 60480 5832
48	30	C	1 48 939 7648 39132 141120 351264 573120 578502 326640 78738
48	30	P	1 47 892 6756 32376 108744 242520 330600 247902 78738
48	30	S	1 47 907 7541 38964 141008 351320 573288 578638 326692 78746
48	31	C	1 48 1038 11815 75669 265089 539256 645192 428472 126396 4140 36
48	31	P	1 47 991 10824 64845 200244 339012 306180 122292 4104 36
48	31	S	1 47 998 11261 72075 256506 531940 648366 437982 5580 60
48	32	C	1 48 972 10880 67613 239632 517750 774208 867648 755200 518944 280320 116480 35840 7680 1024 64
48	32	P	1 47 925 9955 57658 181974 335776 438432 429216 325984 192960 87360 29120 6720 960 64
48	32	S	1 47 936 10368 64973 234805 516202 777796 871488 756904 519328 280368 116480 35840 7680 1024 64
48	33	C	1 48 988 11536 83517 376848 990974 1301952 918205 391408 102443 15360 1024
48	33	P	1 47 941 10595 72922 303926 687048 614904 303301 88107 14336 1024
48	33	S	1 47 952 11012 79521 360195 957954 1288476 942117 419181 115327 18241 1280
48	34	C	1 48 939 7648 39132 141120 372012 720288 1009062 988048 636C 5 240000 40000
48	34	P	1 47 892 6756 32376 108744 263268 457020 552042 436006 200000 40000
48	34	S	1 47 907 7541 38964 141008 372068 720456 1009198 988100 636014 240000 40000
48	35	C	1 48 1044 13416 110829 555144 1376646 1448016 639552 49248 360
48	35	P	1 46 948 11412 86321 375832 767568 636904 209840 8280
48	35	S	1 47 1003 12675 103312 517158 1321364 1480820 691116 66208 600
48	36	C	1 48 972 10880 74662 333216 1012956 2170176 2578494 1593536 521472 86448 5747
48	36	P	1 47 925 9955 64707 268509 744447 1425729 1152765 440771 80701 5747
48	36	S	1 47 936 10368 70966 318426 978276 2123340 2578230 1645604 559204 96519 6691
48	37	C	1 48 1064 14464 125251 656944 1902100 2690304 1957694 801824 206146 30720 2048
48	37	P	1 47 1017 13447 111804 545140 1356960 1333344 624350 177474 28672 2048
48	37	S	1 47 1022 13660 116999 614873 1820506 2669088 2021118 860150 232098 36486 2560
48	38	C	1 48 988 11536 73901 302384 852438 1688496 2276023 1949920 967625 241920 23328
48	38	P	1 47 941 10595 63306 239078 613360 1075136 1200887 749033 218592 23328
48	38	S	1 47 952 11012 71673 290059 849106 1689620 2280315 1953595 968929 241971 23328
48	39	C	1 48 553 4048 21252 85008 269192 692208 1432334 2238560 2299472 1174432 171500
48	39	P	1 47 506 3542 17710 67298 201894 490314 942020 1296540 1002932 171500
48	39	S	1 47 553 4049 21252 85008 269192 692208 1432334 2238560 2299472 1174432 171500
48	40	C	1 48 939 7808 42252 170016 527560 1236304 2069046 2300048 1474806 480000 80000
48	40	P	1 47 892 6916 35336 134680 392880 843504 1225542 1074506 400000 80000
48	40	S	1 47 907 7697 42060 169848 527560 1236552 2069238 2300156 1474538 480004 80000
48	41	C	1 48 1038 12688 94581 439720 1278375 2291088 2450265 1442400 369972 8352 72

Table 2 (continued)

n	#	T	Coset weights
48	41	P	1 47 991 11697 82884 356844 921531 1369557 1080708 361692 8280 72
48	41	S	1 47 998 12054 89637 421341 1246135 2273856 2471337 1475726 386076 11280 120
48	42	C	1 48 1092 14461 124245 665973 1931790 2824662 2087568 688800 49608 360
48	42	P	1 47 1045 13416 110829 555144 1376646 1448016 639552 49248 360
48	42	S	1 47 1048 13679 115989 620470 1838522 2802184 2171936 757324 66808 600
48	43	C	1 48 1064 14464 129159 750192 2667236 5044480 4910306 2477088 674118 102336 6724
48	43	P	1 47 1017 13447 115712 634480 2032756 3011724 1898582 578506 95612 6724
48	43	S	1 47 1022 13660 120547 698841 2516702 4935722 5004138 2623428 738162 116910 8036
48	44	C	1 48 842 7264 40789 167728 536668 1384416 2866393 4479456 4600723 2349696 343192
48	44	P	1 47 795 6469 34320 133408 403260 981156 1885237 2594219 2006504 343192
48	44	S	1 47 818 7132 40373 166871 535524 1383558 2866425 4480447 4602051 2350553 343416
48	45	C	1 48 939 7808 42252 170016 534940 1334016 2618118 3949488 4338582 2927232 853776
48	45	P	1 47 892 6916 35336 134680 400260 933756 1684362 2265126 2073456 853776
48	45	S	1 47 907 7697 42060 169848 534940 1334184 2618310 3949596 4338614 2927236 853776
48	46	C	1 48 1092 15038 136101 804186 2773465 5022792 4896981 2526720 580800 19024 168
48	46	P	1 47 1045 13993 122108 682078 2091387 2931405 1965576 561144 19656 168
48	46	S	1 47 1048 14184 126662 744731 2608764 4924794 5016513 2677364 635340 27488 280
48	47	C	1 48 1064 14464 131119 803632 3258796 8409792 11148746 7203488 2214502 345792 22988
48	47	P	1 47 1017 13447 117672 685960 2572836 5836956 5311790 1891698 322804 22988
48	47	S	1 47 1022 13660 122327 746819 3053114 8069436 11166122 7559762 2407866 387492 26764
48	48	C	1 48 1064 14464 128345 734288 2657876 6190816 9244704 8556000 4602648 1281600 142578
48	48	P	1 47 1017 13447 114898 619390 2038486 4152330 5092374 3463626 1139022 142578
48	48	S	1 47 1022 13660 119901 687259 2533650 6034540 9202312 8681992 4762536 1359184 157794 534
48	49	C	1 48 988 11536 74715 325968 1066136 2768688 5739662 8968256 9208562 4702720 687152
48	49	P	1 47 941 10595 64120 261848 804288 1964400 3775262 5192994 4015568 687152
48	49	S	1 47 952 11012 72471 320823 1059020 2763288 5739746 8974184 9216530 4707862 688496
48	50	C	1 48 939 7808 42252 170016 538636 1384704 2942046 5230064 7845030 9984576 5408312
48	50	P	1 47 892 6916 35336 134680 403956 980748 1961298 3268766 4576264 5408312
48	50	S	1 47 907 7697 42060 169848 538636 1384872 2942238 5230172 7845062 9984580 5408312
48	51	C	1 48 1038 12848 99621 509424 1834903 4742640 8383065 9524480 6128916 1987776 329672

Table 2 (continued)

n	#	T	Coset weights
48	51	P	1 47 991 11857 87764 421660 1413243 3329397 5053668 4470812 1658104 329672
48	51	S	1 47 998 12210 94493 488041 1781335 4662568 8347065 9587078 6217156 2027272 336168
48	52	C	1 48 1092 15328 145557 954864 3941322 8849856 10758132 6855744 1930320 101376 792
48	52	P	1 47 1045 14283 131274 823590 3117732 5732124 5026008 1829736 100584 792
48	52	S	1 47 1048 14438 134877 874823 3643022 8527020 10865620 7222024 2131328 138864 1320
48	53	C	1 48 1092 14461 124926 727758 2849796 7225092 10892313 8321913 2868912 486648 40176 1296
48	53	P	1 47 1045 13416 111510 616248 2233548 4991544 5900769 2421144 447768 38880 1296
48	53	S	1 47 1048 13679 116582 672678 2625390 6707610 10423323 8663922 3541320 716688 69552 2592
48	54	C	1 48 1064 14464 131119 803632 3258796 8409792 14052310 15893088 12749990 7473920 3178880 939008 181248 20480 1024
48	54	P	1 47 13447 117672 685960 2572836 5836956 8215354 7677734 5072256 2401664 777216 161792 19456 1024
48	54	S	1 47 1022 13660 122327 746819 3053114 8069436 13803542 16074398 13047130 7666200 3261184 963136 185088 20736 1024
48	55	C	1 48 988 11536 85950 441024 1657404 4779456 10674128 17643520 19149664 10666272 1986291 12576 6
48	55	P	1 47 941 10595 75355 365669 1291735 3487721 7186407 10457113 8692551 1973721 12570 6
48	55	S	1 47 952 11012 81906 422304 1599972 4655420 10492232 17512844 19240024 10933764 2138539 19041 6
48	56	C	1 48 1092 15328 145557 954864 4147158 10736832 17186280 17599360 11376384 4240000 697960
48	56	P	1 47 1045 14283 131274 823590 3323568 7413264 9773016 7826344 3550040 697960
48	56	S	1 47 1048 14438 134877 874823 3806714 10209876 17029192 17990960 11845760 4464288 736840
48	57	C	1 48 1080 15120 146799 1016256 4879020 15004416 25311366 10720280 1853766 155520 5184
48	57	P	1 46 990 13230 121809 788010 3441442 9230558 12742272 6781050 416880 18144
48	57	S	1 47 1036 14220 135562 925790 4427980 13801436 24370186 19089334 3257064 267840 10368
48	58	C	1 48 1064 14464 133770 879744 4181348 14324896 31729496 41430752 29614500 10452048 1448649 6912 36
48	58	P	1 47 1017 13447 120323 759421 3421927 10902969 20826527 20604225 9010275 1441773 6876 36
48	58	S	1 47 1022 13660 124642 812700 3854748 13292782 30270940 41293914 31112306 11679183 1745169 16578 36
48	59	C	1 48 1064 14464 129901 779536 3184824 9494976 21401920 35409664 38406272 21385024 3984870 25152 12
48	59	P	1 47 1017 13447 116454 663082 2521742 6973234 14428686 20900970 17425294 3959730 25140 12
48	59	S	1 47 1022 13660 121361 729251 3025598 9180904 21000864 35176384 38656784 21970536 4303222 38082 12
48	60	C	1 48 1030 12848 99621 509424 1863640 5196336 11524368 20907776 31604112 40273056 22013591 209376 2493
48	60	P	1 47 991 11857 87764 421660 1441900 3754356 7770012 13137764 18466348 21806700 206883 2493
48	60	S	1 47 998 12210 94493 488041 1808544 5100340 11409944 20025166 31590208 40346324 22192911 336736 3765

Table 2 (continued)

n	•	T	Coset weights

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n   •    T  Coset weights
--  ---- -  -------------------------------
48  61 C  1 48 1092 15488 151557 1060080 5204347 16803360 33934053 40715264
             26421894 8514624 1395920
48  61 P  1 47 1045 14443 137114 922966 4281381 12521979 21412074 19303190
             7118704 1395920
48  61 S  1 47 1048 14594 140613 973611 4785235 15815928 33197049 41294824
             27511142 9009860 1473776
48  62 C  1 48 1092 15328 146238 988128 4720809 15442128 32750649 41428584
             27985203 9112824 1500984 121824 3888
48  62 P  1 47 1045 14283 131955 856173 3864636 11577492 21173157 20255427
             7729776 1383048 117936 3888
48  62 S  1 47 1048 14438 135470 902982 4285977 14089245 30515598 40445712
             29932146 11444760 2230848 211680 7776
48  63 C  1 48 1128 16201 161919 1163055 5895276 19883436 40315782 44031654
             20574054 2009286 160704 5184
48  63 P  1 47 1081 15120 146799 1016256 4879020 15004416 25311366 18720288
             1853766 155520 5184
48  63 S  1 47 1081 15256 149784 1061353 5353770 18229416 38179622 44267520
             23146398 3524904 270208 10368
48  64 C  1 48 1064 14464 133366 871552 4126744 14336160 36708718 67291392
             80514184 51305392 12733435 318720 216
48  64 P  1 47 1017 13447 119919 751633 3375111 10961049 25747669 41543723
             38970461 12414931 318504 216
48  64 S  1 47 1022 13660 124322 806714 3823080 13421340 34984026 65624614
             80857104 53882504 14427957 468849 216
48  65 C  1 48 1092 15488 151557 1060080 5229388 17446512 40218234 65243520
             73556016 50376336 15060339 75744 1101
48  65 P  1 47 1045 14443 137114 922966 4306422 13140090 27078144 38165376
             35390640 14905696 74643 1101
48  65 S  1 47 1048 14594 140613 973611 4808748 16409401 38905778 64912307
             74504896 51764162 15775131 143526 1513
48  66 C  1 48 1128 16770 174639 1319058 7207789 27334992 66542397 90666936
             58170808 14714028 2107782 165888 5184
48  66 P  1 47 1081 15697 158942 1160116 6047673 21207319 45255078 45411850
             12766950 1947078 160704 5184
48  66 S  1 47 1081 15761 161171 1201013 6518921 24038485 61806050 88530704
             62573664 19343142 3146472 288576 10368
49   1 C  1 49 1029 12005 84035 352947 823543 823543
49   1 P  1 45 861 9065 56595 208887 420175 352947
49   1 S  1 48 988 11312 77910 323792 758716 806736 117649
49   2 C  1 49 1078 13035 96040 436982 1176490 1647086 823543
49   2 P  1 48 1030 12005 84035 352947 823543 823543
49   2 S  1 48 1036 12301 89222 401702 1082508 1565452 924385 117649
49   3 C  1 49 1078 14070 121373 722015 2859591 6470695 6588344
49   3 P  1 48 1030 13040 107244 585368 1974700 3471846 2235331
49   3 S  1 48 1036 13294 113079 665741 2622305 5978637 6458690 924385
49   4 C  1 49 1078 14070 121373 722015 2859591 6470695 6588344
49   4 P  1 48 1030 13040 107244 585368 1974700 3471846 2235331
49   4 S  1 48 1036 13294 113079 665741 2622305 5978637 6458690 924385
49   5 C  1 49 1078 14070 121373 730541 3098669 8603861 12732552 7428695
             823543
49   5 P  1 48 1030 13040 108333 622208 2476461 6127400 6605152 823543
49   5 S  1 48 1036 13294 113079 673778 2843245 7921304 12087362 8051143
             1732493 117649
49   6 C  1 49 1078 14070 121373 730541 3098669 8603861 12732552 7428695
             823543
49   6 P  1 48 1030 13040 108333 622208 2476461 6127400 6605152 823543
49   6 S  1 48 1036 13294 113079 673778 2843245 7921304 12087362 8051143
             1732493 117649
```

Table 2 (continued)

n	♦	T	Coset weights
49	7	C	1 49 1078 14070 121373 730541 3162824 10032456 23600850 41536306 55018180
49	7	P	1 48 1030 13040 108333 622208 2540616 7491840 16109010 25427296 14795442
49	7	S	1 48 1036 13294 113079 673778 2902528 9218712 21873978 39142888 53170104 7108282
49	8	C	1 49 1079 14070 121373 730541 3162824 10032456 23600850 41536306 55018180 55018180 41536306 23600850 10032456 3162824 730541 121373 14070 1078 49 1
49	8	P	1 48 1030 13040 108333 622208 2540616 7491840 16109010 25427296 29590884 25427296 16109010 7491840 2540616 622208 108333 13040 1030 48 1
49	8	S	1 48 1036 13294 113079 673778 2902528 9218712 21873978 39142888 53170104 55018180 43384382 25994268 11759328 3976568 990837 178136 22364 1854 91 2
50	1	C	1 50 601 4600 25300 103752 315000 688750 1056250 1100000 700000 200000
50	1	P	1 49 552 4048 21252 82500 232500 456250 600000 500000 200000
50	1	S	1 49 601 4601 25300 103752 315000 688750 1056250 1100000 700000 200000
50	2	C	1 50 1105 14300 121460 662560 2542900 7401140 17171150 32788830 52569440 71608400 83408520 144400 1200
50	2	P	1 49 1056 13244 108216 554344 1988556 5412584 11750566 21030264 31539176 40069224 21724424 17952 72
50	2	S	1 49 1065 13617 114900 634164 2471252 7285060 17052094 32731310 52607304 71715056 83524280 283384 1920
51	1	C	1 51 204
51	1	P	1 49 78
51	1	S	1 50 205
51	2	C	1 51 255 205
51	2	P	1 50 205
51	2	S	1 50 253 206 2
51	3	C	1 51 612 357 3
51	3	P	1 49 384 78
51	3	S	1 50 613 357 3
51	4	C	1 51 547 425
51	4	P	1 50 377 84
51	4	S	1 50 547 426
51	5	C	1 51 663 970 360 3
51	5	P	1 50 613 357 3
51	5	S	1 50 661 971 362 3
51	6	C	1 51 547 969 476 4
51	6	P	1 50 497 472 4
51	6	S	1 50 547 970 476 4
51	7	C	1 51 1275 18173 45968 68
51	7	P	1 50 1195 14440 17082
51	7	S	1 50 1225 17220 46681 359
51	8	C	1 51 1224 18360 45900
51	8	P	1 49 1128 14520 17070
51	8	S	1 50 1177 17328 46980
51	9	C	1 51 1275 19091 44642 476
51	9	P	1 50 1195 15044 16478
51	9	S	1 50 1225 18002 45495 763
51	10	C	1 51 1224 13566 44370 6324
51	10	P	1 49 1098 10563 20425 632
51	10	S	1 50 1177 13014 44202 7092
51	11	C	1 51 1275 18909 63767 46496 493
51	11	P	1 50 1225 17764 46003 493

Table 2 (continued)

```
n    #    T   Coset weights
--   ----  -   ------------------------------
51   11  S   1  50  1225  17968  63471  47518  839
51   12  C   1  51  1275  19585  64260  45900
51   12  P   1  50  1225  18360  45900
51   12  S   1  50  1225  18505  64310  46981
51   13  C   1  51  1275  19499  63767  45986  493
51   13  P   1  50  1225  18274  45493  493
51   13  S   1  50  1225  18394  63499  47092  811
51   14  C   1  51  1275  14791  57936  50694  6324
51   14  P   1  50  1225  13566  44370  6324
51   14  S   1  50  1225  14191  57218  51295  7092
51   15  C   1  51  1275  18989  128945  112713  170
51   15  P   1  50  1225  17764  88915  23115  2
51   15  S   1  50  1225  17968  123521  119122  257
51   16  C   1  51  1224  18360  146625  95727  153  3
51   16  P   1  49  1128  16200  94050  19638  6
51   16  S   1  50  1177  17328  139385  104032  168  3
51   17  C   1  51  1275  19499  129863  107222  4233
51   17  P   1  50  1225  17241  81317  31076  162
51   17  S   1  50  1225  18394  124521  113277  4676
51   18  C   1  51  1224  17034  110313  125871  7650
51   18  P   1  49  1128  14154  71961  43577  202
51   18  S   1  50  1177  16122  105277  131325  8192
51   19  C   1  51  547  2737  9520  24752  49504  77792  97240
51   19  P   1  50  497  2240  7280  17472  32032  45760  25740
51   19  S   1  50  547  2738  9520  24752  49504  77792  97240
51   20  C   1  51  1275  18989  128945  235725  131869  7378  54  1
51   20  P   1  50  1225  17764  111181  124544  7325  53  1
51   20  S   1  50  1225  17968  123521  235332  137343  8793  54  1
51   21  C   1  51  1275  19585  164985  242352  95880  156  3
51   21  P   1  50  1225  18360  146625  95727  153  3
51   21  S   1  50  1225  18505  156715  243418  104200  171  3
51   22  C   1  51  1275  19499  144449  237493  116416  5101  3
51   22  P   1  50  1225  18274  126175  111318  5098  3
51   22  S   1  50  1225  18394  137797  238200  123118  5500  3
51   23  C   1  51  1275  18259  127347  236184  133521  7650
51   23  P   1  50  1225  17034  110313  125871  7650
51   23  S   1  50  1225  17299  121401  236603  139517  8192
51   24  C   1  51  547  2737  9520  24752  49504  77792  97240  97240  77792  49504  24752
                 9520  2720  544  68  4
51   24  P   1  50  497  2240  7280  17472  32032  45760  51400  45760  32032  17472  7280
                 2240  480  64  4
51   24  S   1  50  547  2738  9520  24752  49504  77792  97240  97240  77792  49504  24752
                 9520  2720  544  68  4
51   25  C   1  51  1275  20825  249900  2235024  9835996  4432886  1258
51   25  P   1  50  1225  19600  228725  1878898  5458613  801496
51   25  S   1  50  1225  19600  230300  2026314  9293486  5201773  4467
51   26  C   1  51  1275  20825  218620  1271600  3515600  5448772  6300472
51   26  P   1  50  1225  19600  199020  1072580  2443020  3005752  1647360
51   26  S   1  50  1225  19600  203676  1194084  3401970  5526458  6349096  1056
51   27  C   1  51  1275  20825  249900  2235024  9833956  4435640  544
51   27  P   1  50  1225  19600  228725  1879526  5456139  803338  4
51   27  S   1  50  1225  19600  230300  2026314  9293038  5202451  4237
51   28  C   1  51  1275  20825  249900  2169370  9330246  4999020  6528
51   28  P   1  50  1225  19600  227150  1786406  5300882  1053286  8
51   28  S   1  50  1225  19600  230300  1972488  8814118  5721918  17516
51   29  C   1  51  1224  18360  192780  1465128  6884796  7961559  253317
51   29  P   1  49  1128  16200  162225  1149549  4376402  2671015  12039
51   29  S   1  50  1177  17328  178740  1339758  6371614  8434103  434445
```

<div align="center">Table 2 (continued)</div>

n	#	T	Coset weights

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n    #   T  Coset weights
--  ---- -  ------------------------------
60  324  P  1 59 1414 13966 87509 358123 973744 1061472 874368 543232 260096
            93184 23296 3584 256
60  324  S  1 59 1433 15205 101099 445391 1232155 1935633 1935968 1417600 803328
            353280 116480 26880 3840 256
60  325  C  1 60 1473 13924 80010 312192 857304 1662912 2231730 1968960 1023780
            236256 6
60  325  P  1 59 1414 12510 67500 244692 612612 1050300 1181430 787530 236250 6
60  325  S  1 59 1433 13781 79714 311832 857136 1663080 2232090 1969260 1023920
            236292 10
60  326  C  1 60 1575 23860 197665 848173 1979003 2653411 2011740 668800 4320
60  326  P  1 59 1516 22344 175321 672852 1306151 1347260 664480 4320
60  326  S  1 59 1527 22889 191009 835311 1977547 2665421 2019708 670624 4512
60  327  C  1 60 1725 31640 393344 2510257 3781654 1652347 17580
60  327  P  1 59 1666 29974 363370 2146887 1634767 17580
60  327  S  1 59 1669 30143 370056 2392015 3802820 1772087 19758
60  328  C  1 60 1515 20900 171690 627708 1311970 1812780 1801800 1354360 787008
            351360 116480 26880 3840 256
60  328  P  1 59 1456 19444 152246 475462 836508 976272 825528 528832 258176
            93184 23296 3584 256
60  328  S  1 59 1467 19977 162650 605988 1292690 1814592 1820952 1372888 795968
            353664 116736 26880 3840 256
60  329  C  1 60 1473 15580 104602 459592 1263300 1942176 1907040 1397120 797568
            352640 116480 26880 3840 256
60  329  P  1 59 1414 14166 90436 369156 894144 1048032 859008 538112 259456
            93184 23296 3584 256
60  329  S  1 59 1433 15401 104226 459452 1263588 1942496 1907168 1397120 797568
            352640 116480 26880 3840 256
60  330  C  1 60 1522 21420 169015 779663 2001486 2753155 2021480 640006
60  330  P  1 59 1463 19957 149050 629805 1371681 1381474 640006
60  330  S  1 59 1477 20617 164475 765812 1995381 2767810 2032970 640006
60  331  C  1 60 1770 33300 376800 2270404 6000756 5759820 1983465 324064 25800
            960 16
60  331  P  1 59 1711 31509 345211 1925193 4075563 1604257 299208 24856 944 16
60  331  S  1 59 1711 31667 354305 2140521 5855523 5816769 2139732 397012 37304
            1600 32
60  332  C  1 60 1770 33364 379410 2338380 6502371 5756580 1482400 259264 22560
            960 16
60  332  P  1 59 1711 31653 347757 1990623 4511748 1244832 237640 21616 944 16
60  332  S  1 59 1711 31732 357005 2206093 6325620 5814852 1670175 334192 34064
            1600 32
60  333  C  1 60 1770 33300 396091 2524024 5880362 5512424 2093780 318800 16604
60  333  P  1 59 1711 31589 364502 2159522 3720840 1791584 302196 16604
60  333  S  1 59 1711 31667 373123 2401943 5841013 5634059 2156156 320880 16604
60  334  C  1 60 1770 34220 421731 3065832 7438654 5283896 526446 4600 6
60  334  P  1 59 1711 32509 389222 2676610 4762044 521852 4594 6
60  334  S  1 59 1711 32509 397763 2915073 7432849 5435995 556278 4972 6
60  335  C  1 60 1770 34220 407911 2867544 7434186 5406504 544740 280
60  335  P  1 59 1711 32509 375402 2492142 4942044 544460 280
60  335  S  1 59 1711 32509 385735 2718713 7374745 5637047 626416 280
60  336  C  1 60 1590 24496 239670 1448088 4312692 5574564 3510367 1292248
            312192 49152 4096
60  336  P  1 59 1531 22965 216705 1231383 3081309 2493255 1025112 267136 45056
            4096
60  336  S  1 59 1543 23552 229434 1391853 4240631 5603400 3597639 1320592
            315264 49152 4096
60  337  C  1 60 1770 33844 423871 3118936 7439094 5233464 523872 2304
60  337  P  1 59 1711 32133 391738 2727198 4711896 521568 2304
60  337  S  1 59 1711 32170 399094 2951148 7390602 5402903 597200 2328
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Table 2 (continued)

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 n    ♦  T  Coset weights
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60  338  C  1 60 1770 33364 398881 2628364 6402036 5726820 1585920
60  338  P  1 59 1711 31653 367228 2261136 4140900 1585920
60  338  S  1 59 1711 31732 375941 2497729 6352643 5859088 1658312
60  339  C  1 60 1690 27480 268161 1459164 4101130 5746064 3887405 1155780
            130221 60
60  339  P  1 59 1631 25849 242312 1216852 2884278 2861786 1025619 130161 60
60  339  S  1 59 1636 26302 255933 1408347 4038256 5772488 3961825 1181349
            130957 63
60  340  C  1 60 1322 14480 104581 558324 2197065 5380264 5941015 2435480 144624
60  340  P  1 59 1263 13217 91364 466960 1730105 3650159 2290856 144624
60  340  S  1 59 1292 14270 103701 555805 2192965 5379420 5945745 2439054 144904
60  341  C  1 60 1626 26420 273560 1738468 4724069 5508640 3100952 1065868
            284304 49152 4096
60  341  P  1 59 1567 24853 248707 1489761 3234308 2274332 826620 239248 45056
            4096
60  341  S  1 59 1576 25316 260634 1664349 4657463 5571104 3179510 1078628
            285328 49152 4096
60  342  C  1 60 1322 14480 102526 510932 1736231 3699840 4489972 3356384
            1813308 752640 237568 53760 7680 512
60  342  P  1 59 1263 13217 89309 421623 1314608 2385232 2104740 1251644 561664
            190976 46592 7168 512
60  342  S  1 59 1292 14270 101678 508784 1733349 3699073 4493732 3359510
            1813308 752640 237568 53760 7680 512
60  343  C  1 60 1322 14480 104581 558324 2206709 5525624 6008315 2290120 67680
60  343  P  1 59 1263 13217 91364 466960 1739749 3785875 2222440 67680
60  343  S  1 59 1292 14270 103701 555805 2202565 5524448 6013009 2294026 68040
60  344  C  1 60 1626 25636 253770 1499640 4330512 5645928 3511359 1168192
            287244 49152 4096
60  344  P  1 59 1567 24069 229701 1269939 3060573 2585355 926004 242188 45056
            4096
60  344  S  1 59 1576 24592 242412 1442881 4261262 5682848 3590781 1189076
            288480 49152 4096
60  345  C  1 60 1575 16340 77660 249904 621500 1240640 2015520 2687360 2956096
            2687360 2015520 1240320 620160 248064 77520 18240 3040 320 16
60  345  P  1 59 1516 14824 62836 187068 434432 806208 1209312 1478048 1478048
            1209312 806208 434112 186048 62016 15504 2736 304 16
60  345  S  1 59 1527 16053 77644 250176 621564 1240656 2015520 2687360 2956096
            2687360 2015520 1240320 620160 248064 77520 18240 3040 320 16
60  346  C  1 60 1690 29720 336742 2076652 5177267 5438592 2748492 843584 124416
60  346  P  1 59 1631 28009 308653 1767999 3409268 2029324 719168 124416
60  346  S  1 59 1636 28362 318322 1984977 5136341 5529002 2807892 846208 124416
60  347  C  1 60 1575 23860 228106 1331824 4158280 5925824 3076230 1107040
            124416
60  347  P  1 59 1516 22344 205762 1126062 3032218 2893606 982624 124416
60  347  S  1 59 1527 22889 217322 1271090 4029288 5914474 4016054 1180096
            124416
60  348  C  1 60 1626 26420 270468 1523508 4108627 5300628 3601626 1475520
            402164 62464 4096
60  348  P  1 59 1567 24853 245615 1277893 2830734 2469094 1131732 343796 58368
            4096
60  348  S  1 59 1576 25316 257846 1470113 4063283 5347622 3659610 1483034
            402196 62464 4096
60  349  C  1 60 1322 14480 100583 475632 1530550 3209760 4168520 3593604
            2249584 1024160 329088 70400 8960 512
60  349  P  1 59 1263 13217 87366 388266 1142284 2067476 2101044 1492560 757024
            267136 61952 8448 512
60  349  S  1 59 1292 14270 99767 473727 1528302 3209742 4171614 3595738 2249584
            1024160 329088 70400 8960 512
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Table 2 (continued)

n	#	T	Coset weights

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n    #   T  Coset weights
--  ----  -  ------------------------------
60  350 C  1 60 1428 17420 120681 518304 1466392 2841768 3861291 3718732
                  2536980 1210188 392043 81624 9792 512
60  350 F  1 59 1369 16051 104630 413674 1052718 1789050 2072241 1646491 890489
                  319699 72344 9280 512
60  350 S  1 59 1388 16869 117481 508978 1452376 2833574 3867131 3732603
                  2547580 1214325 392859 81688 9792 512
60  351 C  1 60 1522 21420 177815 888856 2674716 4747536 4806720 2641836 723738
                  88900 4096
60  351 P  1 59 1463 19957 157858 730998 1943718 2803818 2002902 638934 84804
                  4096
60  351 S  1 59 1477 20617 171407 864841 2636403 4738488 4841874 2675595 733350
                  89008 4096
60  352 C  1 60 1770 33520 397850 2634416 7045817 5720612 943170
60  352 P  1 59 1711 31809 366041 2268375 4777442 943170
60  352 S  1 59 1711 31879 376262 2516280 6998283 5840376 1012351 14
60  353 C  1 60 1590 24044 226287 1366710 4829998 6990030 3330705 7764 27
60  353 P  1 59 1531 22513 203774 1162936 3667062 3322968 7737 27
60  353 S  1 59 1543 23145 217444 1320100 4733891 7032749 3435690 12555 39
60  354 C  1 60 1770 32792 384720 2540496 6973687 5815260 1028430
60  354 P  1 59 1711 31081 353639 2186857 4786830 1028430
60  354 S  1 59 1711 31223 363300 2410226 6836328 5946972 1107268 128
60  355 C  1 60 1725 30100 315910 1780856 5051548 6124152 2995760 453280 23664
                  160
60  355 P  1 59 1666 28434 287476 1493380 3558168 2565984 429776 23504 160
60  355 S  1 59 1669 28729 301182 1738436 5030988 6163104 3031104 458120 23664
                  160
60  356 C  1 60 1725 31420 389435 3004052 7497843 5351072 499595 2004 9
60  356 P  1 59 1666 29754 359681 2644371 4853472 497600 1995 9
60  356 S  1 59 1669 29941 366683 2830341 7449623 5526242 570623 2025 9
60  357 C  1 60 1725 30100 302850 1378416 2856576 3627840 3445440 2599040
                  1541376 698880 232960 53760 7680 512
60  357 P  1 59 1666 28434 274416 1104000 1752576 1875264 1570176 1028864
                  512512 186368 46592 7168 512
60  357 S  1 59 1669 28729 287674 1347532 2850304 3652928 3465920 2606208
                  1542400 698880 232960 53760 7680 512
60  358 C  1 60 1725 30692 365325 2633742 7299658 5721078 721807 3036 12
60  358 P  1 59 1666 29026 336299 2297443 5002215 718863 3024 12
60  358 S  1 59 1669 29285 344745 2488733 7189623 5867381 852558 3150 12
60  359 C  1 60 1725 29372 287310 1457256 4353169 6544080 3746403 357840
60  359 P  1 59 1666 27706 259604 1197652 3155517 3388563 357840
60  359 S  1 59 1669 28073 274782 1428364 4336119 6569136 3776037 362976
60  360 C  1 60 1595 24920 250550 1530196 4918168 6373572 3194600 459700 23694
                  160
60  360 P  1 59 1536 23384 227166 1303030 3615138 2758434 436166 23534 160
60  360 S  1 59 1547 23933 239710 1481135 4860896 6414461 3262760 468860 23694
                  160
60  361 C  1 60 1473 15580 104770 491144 1630404 3655888 5112260 4028360
                  1527876 197232 11820 344 4
60  361 P  1 59 1414 14166 90604 400540 1229864 2426024 2686236 1342124 185752
                  11400 340 4
60  361 S  1 59 1433 15401 104358 490664 1630336 3656428 5112780 4028400
                  1527876 197232 11820 344 4
60  362 C  1 60 1473 15580 106575 520032 1747971 3702600 4474092 3343424
                  1813248 752640 237568 53760 7680 512
60  362 P  1 59 1414 14166 92409 427623 1320348 2382252 2091840 1251584 561664
                  190976 46592 7168 512
60  362 S  1 59 1433 15401 106167 519593 1748163 3703219 4474348 3343424
                  1813248 752640 237568 53760 7680 512
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Table 2 (continued)

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n    #    T  Coset weights
--  ----  -  -----------------------------
60   363  C  1 60 1473 14828 91830 388632 1167988 2523672 3899034 4201644 2992080
                1259772 236202
60   363  P  1 59 1414 13414 78416 310216 857772 1665900 2233134 1968510 1023570
                236202
60   363  S  1 59 1433 14665 91494 388252 1167840 2523876 3899414 4201948 2992220
                1259808 236206
60   364  C  1 60 1575 23860 197665 876816 2304123 4054912 4861020 3432960
                1024224
60   364  P  1 59 1516 22344 175321 701495 1602628 2452284 2408736 1024224
60   364  S  1 59 1527 22889 191009 863012 2300651 4066424 4870812 3436224
                1024608
60   365  C  1 60 1725 31640 393344 2779662 6739494 5410794 1237660 166452 16384
60   365  P  1 59 1666 29974 363370 2416292 4323202 1087592 150068 16384
60   365  S  1 59 1669 30143 370056 2629604 4655397 5560018 1345101 167984 16384
60   366  C  1 60 1515 20900 171690 724836 1848090 3163740 3844000 3394880
                2186032 1013280 328320 70400 8960 512
60   366  P  1 59 1456 19444 15224° 572590 1275500 1888240 1955760 1439120 746912
                266368 61952 8448 512
60   366  S  1 59 1467 19977 152650 699648 1821322 3162652 3868144 3419392
                2197488 1015968 328576 70400 8960 512
60   367  C  1 60 1473 15580 104602 484072 1539460 3208320 4155440 3585504
                2249584 1024160 329088 70400 8960 512
60   367  P  1 59 1414 14166 90436 393636 1145824 2062496 2092944 1492560 757024
                267136 61952 8448 512
60   367  S  1 59 1433 15401 104226 483740 1539620 3208832 4155696 3585504
                2249584 1024160 329088 70400 8960 512
60   368  C  1 60 1522 21420 169815 786964 2220206 4071970 4937960 3504674
                1059033 3520 71
60   368  P  1 59 1463 19957 149858 637106 1583100 2488870 2549090 1055584 3449
                71
60   368  S  1 59 1477 20617 164475 773083 2210219 408103° 4951210 3509949
                1061150 3840 76
60   369  C  1 60 1770 33335 409245 3031291 9604674 369603° 810
60   369  P  1 59 1711 31044 358501 2327106 5092584 577602
60   369  S  1 59 1711 31712 385517 2861411 9366108 4127094 3603
60   370  C  1 60 1770 32105 372750 2581920 8499985 5227905 60720
60   370  P  1 59 1708 29947 325121 1954114 4730212 1346678 768
60   370  S  1 59 1711 30600 352401 2448485 8231380 5625627 86952
60   371  C  1 60 1710 30180 353490 2631516 9190089 4551270 18900
60   371  P  1 58 1596 26958 297212 1969541 4990310 1102884 48
60   371  S  1 59 1654 28758 332950 2473262 8869954 5041580 28998
60   372  C  1 60 1725 30360 352845 2551320 8358885 5293800 187440 780
60   372  P  1 59 1648 27772 302445 1928571 4561512 1552968 13632
60   372  S  1 59 1669 28953 332526 2397864 8077410 5695326 242628 780
60   373  C  1 60 1725 30100 308910 1601096 4719400 6402900 3324160 376320 12544
60   373  P  1 59 1666 27986 269080 1223320 2987264 2935296 893760 50176
60   373  S  1 59 1669 28729 294630 1568756 4708872 6461476 3324160 376320 12544
60   374  C  1 60 1725 29980 320430 1831440 5935220 7415900 1242460
60   374  P  1 59 1663 27957 279948 1419428 3712470 2793322 153760
60   374  S  1 59 1669 28619 304776 1790696 5919904 7473376 1258116
60   375  C  1 60 1770 33935 450153 3827527 10878657 1584813 300
60   375  P  1 59 1711 31956 407005 3070580 4754515 122781
60   375  S  1 59 1711 32252 422170 3584467 10834974 1901282 300
60   376  C  1 60 1725 29900 316080 1671756 4924498 7862316 1953600 17280
60   376  P  1 59 1666 28234 287846 1383910 3540588 2856384 289920
60   376  S  1 59 1669 28533 300104 1634612 4906738 7886492 2001728 17280
60   377  C  1 60 1725 29780 310530 1653960 5168005 7708515 1875840 28800
60   377  P  1 59 1663 27757 269355 1256293 3327254 3269950 236276
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Table 2 (continued)

n	#	T	Coset weights

60	377	S	1 59 1669 28423 295228 1619764 5152653 7750303 1900316 28800
60	378	C	1 60 1710 30780 385428 3131052 10273407 2952054 2700 24
60	378	P	1 58 1596 27702 329182 2377217 5150222 502557 73
60	378	S	1 59 1654 29298 361725 2931239 10065210 3384516 3490 24
60	379	C	1 60 1665 26790 227460 938976 2446320 4236360 4769400 3176040 953064 1080
60	379	P	1 58 1545 23016 173412 638016 1479696 2264496 2224296 1267608 316392 72
60	379	S	1 59 1612 25620 218212 924456 2437376 4241768 4783080 3186472 956904 1656
60	380	C	1 60 1665 27630 294390 1982250 7242300 6933420 295500
60	380	P	1 58 1542 24240 240387 1451556 4263012 2389740 18072
60	380	S	1 59 1612 26394 278502 1869780 6920796 7262988 417084
60	381	C	1 60 1595 24920 246930 1418906 4678200 6716020 3301450 376590 12544
60	381	P	1 59 1536 23212 215358 1094534 2996860 3102852 904002 50194
60	381	S	1 59 1547 23933 236382 1377033 4630185 6796108 3322034 376590 12544
60	382	C	1 60 1595 24800 250300 1546190 5518370 7752770 1678330 4800
60	382	P	1 59 1533 23015 219590 1221114 3567480 3120146 235670
60	382	S	1 59 1547 23823 239362 1496934 5440770 7817774 1751250 5696
60	383	C	1 60 1626 25175 238524 1363257 4496818 8103009 2546430 2316
60	383	P	1 59 1567 23608 214916 1148341 3348477 3332432 319207
60	383	S	1 59 1576 24191 229340 1326423 4440048 8117737 2634944 2897
60	384	C	1 60 1690 29720 342898 2161006 5557161 5881160 2768960 34560
60	384	P	1 59 1631 27917 301606 1593238 3151712 2494428 817888 128
60	384	S	1 59 1636 28362 324050 2065155 5532849 5993184 2795824 36096
60	385	C	1 60 1575 23740 225770 1305210 4207840 6513820 3979240 519960
60	385	P	1 59 1513 21957 195266 1005016 2694870 3133402 1284012 52512
60	385	S	1 59 1527 22779 215488 1254754 4122492 6541756 4069696 548664
60	386	C	1 60 1770 34220 465084 4041592 11035752 1197597 1140
60	386	P	1 59 1711 32439 423592 3215994 4638168 76644
60	386	S	1 59 1711 32509 435495 3776481 11039632 1490188 1140
60	387	C	1 60 1595 24920 252908 1485216 4853490 8009196 2032230 114720 2880
60	387	P	1 59 1536 23384 229524 1255692 3597798 2930566 341792 8256
60	387	S	1 59 1547 23933 241484 1434528 4763346 7979080 2208438 121920 2880
60	388	C	1 60 1626 25360 243637 1400012 4581510 8132379 2366295 28536
60	388	P	1 59 1567 23793 219844 1180968 3400542 3269037 291261 1536
60	388	S	1 59 1576 24358 234053 1361881 4521294 8147583 2460427 25984
60	389	C	1 60 1770 34220 428960 3341572 11975050 13401364 4371435
60	389	P	1 59 1711 32509 396451 2945121 9029929 4371435
60	389	S	1 59 1711 32509 404053 3156759 11692687 13587762 4678764 127
60	390	C	1 60 1590 24496 243057 1626120 6796254 14729724 9718560 396456 17748 360 6
60	390	P	1 59 1531 22965 220092 1406028 5390226 9339498 379062 17394 354 6
60	390	S	1 59 1543 23552 232472 1553502 6547803 14565111 9977067 634614 18324 378 6
60	391	C	1 60 1770 33844 428490 3451812 12527040 13290060 3819915 1440
60	391	P	1 59 1711 32133 396357 3055455 9471585 3818475 1440
60	391	S	1 59 1711 32170 402594 3234397 12101502 13505934 4271408 4656
60	392	C	1 60 1725 31640 378295 2844412 9634327 12882744 6715210 1018040 47658 320
60	392	P	1 59 1666 29974 348321 2496091 7138236 5744508 970702 47338 320
60	392	S	1 59 1669 30143 357127 2691741 9456575 13001489 6913994 1053460 47850 324
60	393	C	1 60 1725 31640 400520 3481192 13297870 13249216 3077004 15108 96
60	393	P	1 59 1666 29974 370546 3110646 10187224 3061992 15012 96
60	393	S	1 59 1669 30143 376704 3249724 12879275 13479896 3519471 17394 96
60	394	C	1 60 1725 31640 365235 2462892 5820943 7547520 7021440 5228800 3086592 1397760 465920 107520 15360 1024

Table 2 (continued)

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60   394 P   1 59 1666 29974 335261 2127631 3693312 3854208 3167232 2061568
                 1025024 372736 93184 14336 1024
60   394 S   1 59 1669 30143 343619 2301721 5699255 7645677 7148416 5291520
                 3102976 1399552 465920 107520 15360 1024
60   395 C   1 60 1725 31264 388890 3213972 12490890 13514688 3895686 17232 24
60   395 P   1 59 1666 29598 359292 2854680 9636210 3878478 17208 24
60   395 S   1 59 1669 29804 366102 3008124 12043346 13715013 4366074 24216 24
60   396 C   1 60 1725 31264 360195 2458452 8539419 13512240 7875876 775200
60   396 P   1 59 1666 29598 330597 2127855 6411564 7100676 775200
60   396 S   1 59 1669 29804 340689 2340179 8385737 13594450 8049120 812724
60   397 C   1 60 1595 24920 250550 1680992 6611628 12128564 9628435 2942360
                 285007 320
60   397 P   1 59 1536 23384 227166 1453826 5157802 6970762 2657673 284607 320
60   397 S   1 59 1547 23933 239710 1612225 6427748 12070035 9815107 3070626
                 293103 338
60   398 C   1 60 1473 19640 159163 848368 3061259 7251476 10417120 8262520
                 3114552 394464 23640 688 8
60   398 P   1 59 1414 18226 140937 707431 2353828 4897648 5519472 2743048 371504
                 22960 680 8
60   398 S   1 59 1433 19059 155351 834554 3033711 7235152 10438580 8293240
                 3124492 394464 23640 688 8
60   399 C   1 60 871 8120 54810 285012 1159970 3558360 7528860 9952160 7239104
                 2824000 775680 148480 17920 1024
60   399 P   1 59 812 7308 47502 237510 922460 2635900 4892960 5059200 2179904
                 644096 131584 16896 1024
60   399 S   1 59 871 8121 54810 285012 1159970 3558360 7528860 9952160 7239104
                 2824000 775680 148480 17920 1024
60   400 C   1 60 1473 19640 162048 898512 3295477 9133545 6868768
                 3693408 1516800 475904 107520 15360 1024
60   400 P   1 59 1414 18226 143822 754690 2540787 4824105 4309440 2559328
                 1134080 382720 93184 14336 1024
60   400 S   1 59 1433 19059 158000 881904 3257181 7329923 9145305 6909407
                 3721472 1528064 478464 107776 15360 1024
60   401 C   1 60 871 8120 54810 285012 1164522 3635160 7854420 10150240 7021632
                 2574720 665600 122880 15360 1024
60   401 P   1 59 812 7308 47502 237510 927012 2708148 5146272 5003968 2017664
                 557056 108544 14336 1024
60   401 S   1 59 871 8121 54810 285012 1164522 3635160 7854420 10150240 7021632
                 2574720 665600 122880 15360 1024
60   402 C   1 60 1473 18856 141963 683892 2209647 4964376 7829098 8529228
                 6109560 2500804 484674
60   402 P   1 59 1414 17442 124521 559371 1650276 3314100 4515798 4013430
                 2096130 484674
60   402 S   1 59 1433 18335 138991 675124 2195135 4951526 7829038 8542188
                 6125900 2589984 486718
60   403 C   1 60 1575 23860 197665 891232 2484603 5055024 8165340 10805120
                 5928032 1920
60   403 P   1 59 1516 22344 175321 715911 1768692 3286332 4879008 5926112 1920
60   403 S   1 59 1527 22889 191009 876956 2479979 5066048 8175900 10809248
                 5928000 2016
60   404 C   1 60 1725 31640 393344 2937472 9706054 12130012 6427260 1678032
                 248832
60   404 P   1 59 1666 29974 363370 2574102 7131952 4998060 1429200 248832
60   404 S   1 59 1669 30143 370056 2766676 9413417 12287708 6743241 1692630
                 248832
60   405 C   1 60 1515 20900 171690 866712 2742550 5663880 7911045 7645420
                 5159535 2419860 771680 159360 19200 1024
60   405 P   1 59 1456 19444 152246 714466 2020084 3635796 4275249 3370171
                 1789364 630496 141184 18176 1024
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Table 2 (continued)

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n    #    T  Coset weights
-- ----  -  -------------------------------
60  405  S  1 59 1467 19977 162650 819054 2607926 5459538 7775973 7701415
            5349503 2592117 856656 183776 23040 1280
60  406  C  1 60 1473 19640 160075 845492 2918733 6367752 8438385 7331088
            4579765 2071360 660864 140800 17920 1024
60  406  P  1 59 1414 18226 141849 703643 2215090 4152662 4285723 3045365
            1534400 536960 123904 16896 1024
60  406  S  1 59 1433 19059 156059 830029 2885557 6336895 8447745 7366853
            4605077 2082241 663424 141056 17920 1024
60  407  C  1 60 1522 21420 169815 790616 2336406 4980624 8229120 10938416
            6039044 46080 1308
60  407  P  1 59 1463 19957 149858 640758 1695648 3284976 4944144 5994272 44772
            1308
60  407  S  1 59 1477 20617 164475 776720 2324139 4982244 8240388 10949336
            6045308 48240 1428
60  408  C  1 60 1770 31560 360345 2564071 9740700 13015125 6674400 1166400
60  408  P  1 59 1711 29849 330496 2233575 7507125 5508000 1166400
60  408  S  1 59 1711 30099 340349 2416598 9284655 12976140 7150500 1354320
60  409  C  1 60 1770 33335 419840 3323071 12625105 13418860 3730500 1890
60  409  P  1 59 1711 31624 388216 2934855 9690250 3728610 1890
60  409  S  1 59 1711 31712 395244 3131204 12200333 13609126 4179927 5115
60  410  C  1 60 1770 32225 384000 2851396 10979025 13831975 5412420 61560
60  410  P  1 59 1711 30514 353486 2497910 8481115 5350260 61560
60  410  S  1 59 1711 30710 362624 2696842 10561210 13959073 5851670 90532
60  411  C  1 60 1590 23143 206427 1166535 4169124 9093924 11117655 6377643
            1277478 115830 4941 81
60  411  P  1 59 1531 21612 184815 981720 3187404 5906520 5211135 1166508 110970
            4860 81
60  411  S  1 59 1543 22334 199040 1130625 4082598 9027342 11192985 6479730
            1296081 117045 4968 81
60  412  C  1 60 1770 31891 383670 2985006 11821605 13741359 4570170 18900
60  412  P  1 59 1711 30180 353490 2631516 9190089 4551270 18900
60  412  S  1 59 1711 30412 361710 2806213 11343216 13911534 5070578 28998
60  413  C  1 60 1770 30901 342345 2366505 9015525 12903525 7417575 1476225
60  413  P  1 59 1711 29190 313155 2053350 6962175 5941350 1476225
60  413  S  1 59 1711 29512 323804 2230195 8575890 12829815 7875810 1687635
60  414  C  1 60 1725 30720 369645 2842936 10827345 13710240 5577720 193260 780
60  414  P  1 59 1666 29054 340591 2502345 8325000 5385240 192480 780
60  414  S  1 59 1669 29301 348551 2673008 10397211 13824888 6029004 249960 780
60  415  C  1 60 1725 30100 315910 1780856 6343656 11253176 9727060 3700480
            388864 12544
60  415  P  1 59 1666 28434 287476 1493380 4850276 6402900 3324160 376320 12544
60  415  S  1 59 1669 28729 301182 1738436 6291464 11296968 9794036 3700480
            388864 12544
60  416  C  1 60 1725 30100 329910 2026696 7552860 13415400 8892720 1304960
60  416  P  1 59 1666 28434 301476 1725220 5827640 7587760 1304960
60  416  S  1 59 1669 28729 313390 1972476 7491500 13451736 8970656 1324216
60  417  C  1 60 1770 33935 457358 4061827 14367424 12678076 1950663 3318
60  417  P  1 59 1711 32224 425134 3636693 10730731 1947345 3318
60  417  S  1 59 1711 32252 428555 3794538 14039474 12946975 2307475 3392
60  418  C  1 60 1725 29900 316080 1671756 4924498 7862316 7840320 5691520
            3213312 1413120 465920 107520 15360 1024
60  418  P  1 59 1666 28234 287846 1383910 3540588 4321728 3518592 2172928
            1040384 372736 93184 14336 1024
60  418  S  1 59 1669 28533 300104 1634612 4906738 7886492 7872064 5705856
            3215360 1413120 465920 107520 15360 1024
60  419  C  1 60 1725 29900 320010 1849216 6610485 12846640 9816195 2051400
            28800
60  419  P  1 59 1666 28234 291776 1557440 5053045 7793595 2022600 28800
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Table 2 (continued)

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n    #   T  Coset weights
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60  419  S  1 59 1669 28533 303842 1801732 6557621 12865640 9805283 2081252
               28800
60  420  C  1 60 1770 32491 416208 3516480 13404459 13225461 2954754 2724 24
60  420  P  1 59 1711 30780 385428 3131052 10273407 2952054 2700 24
60  420  S  1 59 1711 30952 391025 3292965 12996449 13449726 3388006 3514 24
60  421  C  1 60 1725 28456 254250 1166436 3385296 6682680 9505760 7945440
               4129104 954144 1080
60  421  P  1 59 1666 26790 227460 938976 2446320 4236360 4769400 3176040 953064
               1080
60  421  S  1 59 1669 27233 243834 1142668 3361832 6679144 9024848 7969552
               4143376 958560 1656
60  422  C  1 60 1725 29296 322020 2276640 9224550 14175720 7228920 295500
60  422  P  1 59 1666 27630 294390 1982250 7242300 6933420 295500
60  422  S  1 59 1669 28007 304898 2148282 8790576 14183784 7680072 417084
60  423  C  1 60 1690 27480 276825 1686151 5953900 11221925 10544800 3841600
60  423  P  1 59 1631 25849 250976 1435175 4518725 6703200 3841600
60  423  S  1 59 1636 26302 263589 1615180 5788230 11145115 10723760 3990560
60  424  C  1 60 1595 24920 250550 1530196 5940626 11513456 10195310 3696040
               389134 12544
60  424  P  1 59 1536 23384 227166 1303030 4637596 6875860 3319450 376590 12544
60  424  S  1 59 1547 23933 239710 1481135 5833290 11537369 10313534 3722176
               389134 12544
60  425  C  1 60 1595 24920 256960 1679616 6819900 13269720 9688200 1802900
               10560
60  425  P  1 59 1536 23384 233576 1446040 5373860 7895860 1792340 10560
60  425  S  1 59 1547 23933 245472 1621084 6680540 13243544 9838072 1888596
               11584
60  426  C  1 60 1626 25360 246289 1517684 5925324 11176499 10188232 4045069
               415744 12544
60  426  P  1 59 1567 23793 222496 1295188 4630136 6546363 3641869 403200 12544
60  426  S  1 59 1576 24358 236077 1464447 5786158 11116477 10327340 4159107
               426064 12768
60  427  C  1 60 1626 25175 238524 1363257 4496818 8103009 8345625 5764051
               3213342 1413120 465920 107520 15360 1024
60  427  P  1 59 1567 23608 214916 1148341 3348477 4754532 3591093 2172958
               1040384 372736 93184 14336 1024
60  427  S  1 59 1576 24191 229340 1326423 4440048 8117737 8411597 5787142
               3213374 1413120 465920 107520 15360 1024
60  428  C  1 60 1626 23707 201129 999261 3145344 6552768 9105552 8177616
               4311576 1023768 11988 36
60  428  P  1 59 1567 22140 178989 820272 2325072 4227696 4877856 3299760
               1011816 11952 36
60  428  S  1 59 1576 22011 193369 970592 3091090 6506188 9112884 8231082
               4362228 1046424 16068 60
60  429  C  1 60 1690 29720 346518 2347941 7597987 11589350 8796460 2810145
               34560
60  429  P  1 59 1631 28089 318429 2029512 5568475 6020075 2775585 34560
60  429  S  1 59 1636 28362 327378 2235246 7460144 11673264 8951961 2840285
               36096
60  430  C  1 60 1575 23860 232430 1434376 5299070 10672240 10718420 4646680
               525720
60  430  P  1 59 1516 22344 210086 1224290 4074780 6597460 4120960 525720
60  430  S  1 59 1527 22889 221598 1374972 5160094 10602704 10830132 4776592
               555064
60  431  C  1 60 1770 34220 466904 4169107 14693644 12571813 1614897 2016
60  431  P  1 59 1711 32509 434395 3734712 10958932 1612881 2016
60  431  S  1 59 1711 32509 437112 3892713 14365779 12849911 1972613 2024
60  432  C  1 60 1595 24920 252908 1485216 4853490 8009196 7966950 5736160
               3220992 1413120 465920 107520 15360 1024
```

Table 2 (continued)

60 432 P 1 59 1536 23384 229524 1255692 3597798 4411398 3555952 2100600
           1040304 372736 93104 14336 1024
60 432 S 1 59 1547 23933 241404 1434520 4763346 7979000 8031702 5000736
           3250032 1422336 466944 107520 15360 1024
60 433 C 1 60 1626 25360 243637 1400012 4501510 8132379 8270710 5699501
           3190452 1410560 465920 107520 15360 1024
60 433 P 1 59 1567 23793 219044 1100960 3400542 4731037 3546073 2152620
           1037024 372736 93104 14336 1024
60 433 S 1 59 1576 24350 234053 1361001 4521294 8147503 8340504 5724231
           3190508 1410560 465920 107520 15360 1024
60 434 C 1 60 1522 21420 185999 1050703 3860548 8472109 10636411 6925060
           2070610 306431 22125 625
60 434 P 1 59 1463 19957 166042 804661 2975007 5496222 5140109 1785679 204931
           21500 625
60 434 S 1 59 1477 20617 178664 1012070 3747088 8324349 10629406 7080180
           2105025 330391 25475 750
60 435 C 1 40 1770 34220 428960 3341572 14691002 27474424 18254115 2700316
           178440 3840 64
60 435 P 1 59 1711 32509 396451 2945121 11745961 15728463 2525652 174664 3776
           64
60 435 S 1 59 1711 32509 404053 3156759 14087425 27365012 18035714 2993397
           225400 6736 128
60 436 C 1 60 1590 24496 243057 1626120 7468566 23554044 25036110 8345416
           805030 4296 70
60 436 P 1 59 1531 22965 220092 1406028 6062538 17491506 7544604 800012 4226
           70
60 436 S 1 59 1543 23552 232472 1553502 7154775 22710729 25185495 9257956
           980012 8634 134
60 437 C 1 60 1770 33844 428490 3451812 15669222 28874460 17364165 1190416
           90720 3840 64
60 437 P 1 59 1711 32133 396357 3055455 12613767 16260693 1103472 86944 3776
           64
60 437 S 1 59 1711 32170 402594 3234397 14028337 28542795 18104797 1738291
           136864 6720 128
60 438 C 1 60 1770 34220 442991 3054712 17312606 27085096 15674028 2570904
           123036 660
60 438 P 1 59 1711 32509 410482 3444230 13868376 13217520 2456500 122396 640
60 438 S 1 59 1711 32509 416335 3606325 16678473 27107315 16332524 2727564
           125380 660
60 439 C 1 60 1770 34220 464931 4421112 21939852 20952700 11147620 146260 258
60 439 P 1 59 1711 32509 432422 3900690 17951162 11001618 146002 258
60 439 S 1 59 1711 32509 435371 4110605 20976060 29236568 12141031 174691 258
60 440 C 1 60 1770 34220 407911 2908632 10810846 16818052 15176065 10699640
           6195279 2795940 931840 215040 30720 2048
60 440 P 1 59 1711 32509 375402 2613230 8197616 8621236 6554829 4144011
           2050468 745472 186368 28672 2048
60 440 S 1 59 1711 32509 385735 2823021 10582201 16860383 15394433 10021055
           6227791 2799517 931840 215040 30720 2048
60 441 C 1 60 1770 33844 453301 4137496 19933482 29185668 13165740 197364 138
60 441 P 1 59 1711 32133 421168 3716328 16217154 12968514 197226 138
60 441 S 1 59 1711 32170 424894 3858725 19044866 29385507 14082822 277971 138
60 442 C 1 60 1770 33844 431011 3567976 15964410 20156392 17157100 1796160 60
60 442 P 1 59 1711 32133 390870 3169098 12795312 15361080 1796100 60
60 442 S 1 59 1711 32170 405338 3343746 15287058 28193435 17060260 1985032 64
60 443 C 1 60 1690 29720 351091 2778552 12483348 24470756 20121123 6274464
           597179 880
60 443 P 1 59 1631 28089 323302 2455550 10027798 14442958 5678165 596299 880
60 443 S 1 59 1636 28362 331615 2620326 11979216 24279843 20621433 6624892
           620531 950

Table 2 (continued)

n	d	T	Coset weights

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 n.   d    T  Coset weights
 --  ----  -  ------------------------------
 60  444   C   1  60 1626 26420 266927 1611288 6071950 14540104 20928978 16586256
                  6237654 788928 47280 1376 16
 60  444   P   1  59 1567 24853 242074 1369214 4702736 9837168 11091610 5494646
                  743008 45920 1360 16
 60  444   S   1  59 1576 25316 255065 1562346 5985176 14502847 21002356 16673560
                  6262962 788928 47280 1376 16
 60  445   C   1  60 1322 14480 104581 559832 2305470 7104072 15056275 19918900
                  14499565 5658080 1551378 296960 35840 2048
 60  445   P   1  59 1263 13217 91364 468468 1837002 5267070 9789205 10129695
                  4369870 1288210 263168 33792 2048
 60  445   S   1  59 1292 14270 103701 557313 2300518 7098130 15054363 19924045
                  14507339 5661607 1551378 296960 35840 2048
 60  446   C   1  60 1626 26420 267937 1658972 6401674 14668596 18508990 13949696
                  7391676 3033600 951808 215040 30720 2048
 60  446   P   1  59 1567 24853 243084 1415888 4985786 9682810 8826180 5123516
                  2260160 765440 186368 28672 2048
 60  446   S   1  59 1576 25316 255999 1605051 6283084 14574456 18576944 14075802
                  7449180 3056140 956920 215552 30720 2048
 60  447   C   1  60 1322 14480 104581 559832 2314559 7257492 15706735 20314220
                  14065311 5160540 1331203 245760 30720 2048
 60  447   P   1  59 1263 13217 91364 468468 1846091 5411401 10295334 10018806
                  4046425 1114115 217088 28672 2048
 60  447   S   1  59 1292 14270 103701 557313 2309583 7251327 15704345 20319515
                  14073507 5164140 1331203 245760 30720 2048
 60  448   C   1  60 1626 25636 240367 1292780 4362406 9937392 15721764 17125420
                  12257376 5173128 970812
 60  448   P   1  59 1567 24069 216298 1076490 3285996 6651396 9070368 8055060
                  4202316 970812
 60  448   S   1  59 1576 24592 230777 1259908 4310844 9903139 15733520 17171214
                  12302222 5195520 975492
 60  449   C   1  60 1575 23860 197665 891232 2484603 5055024 8165340 10805120
                  11040224 10751360 8062080 4961280 2480640 992256 310080 72960
                  12160 1280 64
 60  449   P   1  59 1516 22344 175321 715911 1768692 3286332 4879000 5926112
                  5914112 4037240 3224832 1736448 744192 240064 62016 10944 1216 64
 60  449   S   1  59 1527 22889 191009 876956 2479979 5066048 8175900 10809248
                  11040992 10751456 8062080 4961280 2480640 992256 310080 72960
                  12160 1280 64
 60  450   C   1  60 1770 34220 454104 3886092 16464645 25936652 16135888 3697400
                  490024
 60  450   P   1  59 1711 32509 421595 3464497 13000148 12936504 3199384 490024
 60  450   S   1  59 1711 32509 425936 3640724 15788898 26023100 16839862 3050040
                  490024
 60  451   C   1  60 1575 23860 228106 1395672 5251640 11521512 16132995 15447980
                  10350112 4044580 1543603 318720 38400 2048
 60  451   P   1  59 1516 22344 205762 1189910 4061730 7459782 8673213 6774767
                  3503345 1261235 282368 36352 2048
 60  451   S   1  59 1527 22889 217322 1325454 4997080 11094738 15842115 15552167
                  10736752 5189013 1713555 367552 46080 2560
 60  452   C   1  60 1626 26420 264171 1557972 5684966 12740476 17085610 14795136
                  9160490 4142720 1321728 281600 35840 2048
 60  452   P   1  59 1567 24853 239318 1318654 4366312 8302164 8703446 6091690
                  3068800 1073920 247808 33792 2048
 60  452   S   1  59 1576 25316 252425 1508769 5503696 12672876 17142100 14898770
                  9211866 4164482 1326848 282112 35840 2048
 60  453   C   1  60 1522 21420 169815 790616 2336406 4980624 8229120 10930416
                  11942656 10794560 8071968 4962240 2480640 992256 310080 72960
                  12160 1280 64
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Table 2 (continued)

```
 n    #   T   Coset weights
 --  ----  -  -------------------------------
 60  453 P  :  59  1463 19957 149858 640758 1695648 3284976 4944144 5994272
               5948384 4846176 3225792 1736448 744192 240064 62016 10944 1216 64
 60  453 S  :  59  1477 20617 164475 776720 2324139 4982244 8240308 10949336
               11948560 10796672 8072448 4962208 2480640 992256 310080 72960
               12160 1280 64
 60  454 C  :  60  1770 33520 429500 3677216 17257041 29319380 15066075 524256 45
 60  454 P  1  59  1711 31809 397691 3279525 13977516 15341864 524211 45
 60  454 S  1  59  1711 31879 403828 3447362 16525357 29391969 16623442 683163 93
 60  455 C  1  60  1770 33520 436140 3774512 17948311 29393180 15160210 353160
 60  455 P  1  59  1711 31809 404331 3370181 14578130 14815050 353160
 60  455 S  :  59  1711 31879 409624 3531364 17052518 29446670 16090578 544460
 60  456 C  1  60  1770 32792 408930 3378696 15533761 20084188 17609970 2058696
 60  456 P  1  59  1711 31081 377849 3000847 12532914 15551274 2058696
 60  456 S  1  59  1711 31223 384054 3167792 14829212 20045598 18330654 2309760
 60  457 C  1  60  1725 30720 369645 2991332 14020945 27415920 19070160 3116360
               83956 40
 60  457 P  1  59  1666 29054 340591 2650741 11378204 16037716 3032644 83916 40
 60  457 S  1  59  1669 29301 348551 2804960 13310861 27087816 19802890 3632252
               90460 44
 60  458 C  1  60  1725 30100 315910 1780856 6343656 14604472 20640260 16340640
               6205584 700920 47280 1376 16
 60  458 P  1  59  1666 28434 287476 1493380 4850276 9754196 10886064 5462576
               743000 45920 1360 16
 60  458 S  1  59  1669 28729 301182 1738436 6291464 14595288 20694692 16401616
               6218128 700920 47280 1376 16
 60  459 C  1  60  1725 30100 329910 2067032 8615940 21586120 24020440 9071120
               506416
 60  459 P  1  59  1666 28434 301476 1765556 6850384 14735736 9284704 506416
 60  459 S  1  59  1669 28729 313390 2009908 8525156 21573408 24123376 9942328
               590040
 60  460 C  1  60  1770 34120 467010 4500932 22722318 28966142 10363259 53170 66
 60  460 P  1  59  1711 32409 434609 4066323 18655995 10310147 53112 66
 60  460 S  1  59  1711 32419 437139 4170717 21650622 29273046 11464893 70191 66
 60  461 C  1  60  1725 30100 325900 1920516 6905574 14914092 18075640 13462016
               7264512 3010560 950272 215040 30720 2048
 60  461 P  1  59  1666 28434 297546 1622970 5202604 9631408 8444160 5017856
               2246656 763904 186368 28672 2048
 60  461 S  1  59  1669 28729 309652 1871572 6861910 14941880 18131600 13404944
               7268608 3010560 950272 215040 30720 2048
 60  462 C  1  60  1725 30100 329910 2067032 8649341 22150160 24298415 9307800
               275040
 60  462 P  1  59  1666 28434 301476 1765556 6883785 15266375 9032040 275040
 60  462 S  1  59  1669 28729 313390 2009908 8556933 22127999 24404719 9307737
               277720
 60  463 C  1  60  1770 33392 441468 4044438 20375173 29347794 12735002 120740 130
 60  463 P  1  59  1711 31601 409787 3634651 16740522 12607272 120610 130
 60  463 S  1  59  1711 31763 414169 3769322 19362755 29560574 13775650 104714 130
 60  464 C  1  60  1725 29372 287310 1457256 4632172 10141200 15685056 16070336
               12002304 5040208 94.964
 60  464 P  1  59  1666 27706 259604 1197652 3434520 6706680 8978376 7899960
               4102344 945864
 60  464 S  1  59  1669 28073 274782 1420364 4607300 10141952 15707664 16903360
               12016576 5052624 946440
 60  465 C  1  60  1725 30212 348240 2663580 12559126 28179180 20643780 2601400
               1560
 60  465 P  1  59  1666 28546 319694 2343886 10215240 17963940 2679040 1560
 60  465 S  1  59  1669 28047 329438 2511634 11934904 27673900 21286716 3339912
               1704
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Table 2 (continued)

n	#	T	Coset weights
60	466	C	1 60 1595 24920 250550 1530196 5940626 14560112 21081420 16640040 6232944 788928 47280 1376 16
60	466	P	1 59 1536 23384 227166 1303030 4637596 9930516 11150904 5489936 743008 45920 1360 16
60	466	S	1 59 1547 23933 239710 1481135 5833290 14497481 21162052 16761440 6269736 789000 47280 1376 16
60	467	C	1 60 1595 24920 256960 1719212 7804260 21083800 24808390 10726420 683226
60	467	P	1 59 1536 23384 233576 1485656 6318604 14765196 10043194 683226
60	467	S	1 59 1547 23933 245472 1657532 7619844 20901408 24976614 10971500 710954
60	468	C	1 60 1626 25360 246744 1541052 6104769 14396220 18873078 14364092 7347222 3010560 950272 215040 30720 2048
60	468	P	1 59 1567 23793 222951 1318101 4786668 9609552 9263526 5100566 2246656 763904 186368 28672 2048
60	468	S	1 59 1576 24350 236856 1493122 5993399 14310634 18970302 14498561 7370026 3010610 950272 215040 30720 2048
60	469	C	1 60 1690 29720 346518 2412956 8743167 17169616 20330960 13941440 4132096 640
60	469	P	1 59 1631 28089 318429 2094527 6648640 10520976 9809904 4131456 640
60	469	S	1 59 1636 28362 327378 2292593 8555921 17235434 20534072 13997200 4135424 704
60	470	C	1 60 1575 23860 232430 1463732 5851630 14431740 21433060 17608160 6035736 26000
60	470	P	1 59 1516 22344 210006 1253646 4597904 9033756 11599304 6000056 26000
60	470	S	1 59 1527 22009 221590 1401160 5676126 14242900 21475540 17056624 6179640 30720
60	471	C	1 60 1770 34220 466904 4351482 20296924 28162400 12721217 1006270 67616
60	471	P	1 59 1711 32509 434395 3917007 16379037 11702563 930654 67616
60	471	S	1 59 1711 32509 437112 4049164 19409030 20367300 13637991 1105312 67779
60	472	C	1 60 1595 24920 252908 1578016 5944050 13076652 16973030 14491136 9029056 4099200 1316352 281600 35840 2048
60	472	P	1 59 1536 23384 229524 1349292 4595558 8401094 8492736 5990400 3030656 1068544 247808 33792 2048
60	472	S	1 59 1547 23933 241404 1520400 5819922 13028792 17063382 14507640 9074080 4109952 1317376 281600 35840 2048
60	473	C	1 60 1626 25360 243637 1454992 5449510 12629040 17449910 15064692 9057556 4096640 1316352 281600 35840 2048
60	473	P	1 59 1567 23793 219844 1235148 4214362 8414678 9035232 6029460 3020096 1068544 247808 33792 2048
60	473	S	1 59 1576 24350 234053 1412381 5358034 12565114 17533416 15172196 9075160 4096676 1316352 281600 35840 2048
60	474	C	1 60 1770 33520 428625 3693413 18408800 32953575 11146300 442000
60	474	P	1 59 1711 31361 382844 3054261 12694035 15001000 2290040 8640
60	474	S	1 59 1711 31079 402585 3449504 17447635 33249020 12045250 488420
60	475	C	1 60 1770 33935 454065 4190347 23041990 37385010 1201590 96
60	475	P	1 59 1711 31956 410917 3554550 16946092 12504286 24060
60	475	S	1 59 1711 32252 425573 3894801 22332654 30540461 1073176 96
60	476	C	1 60 1770 32225 384000 2941743 13347565 30934020 18999040 467520 120
60	476	P	1 59 1711 30514 353486 2580257 10759308 16275016 3506056 30024
60	476	S	1 59 1711 30710 362624 2777121 12760112 30515790 20065352 595256 120
60	477	C	1 60 1710 30780 389340 3521112 20969790 39231960 2962935 1176
60	477	P	1 58 1596 27702 335334 2853945 14507023 15591686 237007
60	477	S	1 59 1654 29298 365128 3266630 19499083 39765450 4180201 1272
60	478	C	1 60 1710 30180 355545 2843673 14649870 34810725 14294700 122400

<p style="text-align:center">Table 2 (continued)</p>

n	#	T	Coset weights

```
 n    #   T  Coset weights
--  ----  -  -------------------------------
60  478  P  1 58 1596 26958 300387 2233163 10128084 17391045 3467620 5520
60  478  S  1 59 1654 20758 334733 2657282 13734192 34086505 16073300 192300
60  479  C  1 60 1725 31640 412125 3047018 21028230 35606820 6116865 63600 780
60  479  P  1 59 1666 29904 378637 3290973 14529909 14527635 794868 780
60  479  S  1 59 1669 30143 387156 3580987 19799754 35907798 7333521 66996 780
60  480  C  1 60 1725 31420 393825 3296192 16053625 31113780 14660620 1507440
               50176
60  480  P  1 59 1666 29618 357463 2744983 11246126 15045132 3928536 200948
60  480  S  1 59 1669 29941 370737 3091517 15281637 31471531 15302788 1500008
               50176
60  481  C  1 60 1725 30100 329910 2047848 9369980 22503000 28403200 5392240
               30720
60  481  P  1 59 1666 28434 301476 1746372 6623608 14414048 9929320 507904 1536
60  481  S  1 59 1669 28729 313390 1992572 8292844 22496584 28517472 5434824
               30720
60  482  C  1 60 1725 31220 307585 3^41752 16194739 33092976 13197960 960840 6
60  482  P  1 59 1666 29554 358031 2883721 13311018 14464326 2463042 43014
60  482  S  1 59 1669 29745 364121 3014111 15061267 32300891 15277064 1059930 6
60  483  C  1 60 1725 29900 320010 1870368 7256725 19638000 27752355 10095400
               104320
60  483  P  1 59 1666 28234 291776 1570592 5670133 12042299 114.5656 1706112
               11904
60  483  S  1 59 1669 28533 303842 1821828 7191445 19620728 27838339 10114900
               187520
60  484  C  1 60 1665 28110 316365 2230752 8573655 17225040 20456520 13903920
               4292200 80496
60  484  P  1 58 1545 24864 261341 1648003 5505660 9526000 9667112 5523000
               13053004 10656
60  484  S  1 59 1612 26832 298369 2099565 8200394 17034992 20649672 14223640
               4660032 112096
60  485  C  1 60 1665 28110 319770 2555748 13451760 33112710 16493220 1126020
               19000
60  485  P  1 58 1545 24864 267594 1989774 9221652 17091156 4791220 169648 912
60  485  S  1 59 1612 26832 301422 2384272 12541304 32213706 16203660 1338036
               20952
60  486  C  1 60 1690 29720 356135 2923683 13031375 28625500 20013000 1327700
60  486  P  1 59 1631 27917 320754 2419040 9587420 14065250 6275160 57200
60  486  S  1 59 1636 28362 335943 2741313 13136560 28307050 20939040 1618100
60  487  C  1 60 1725 31640 403353 3405692 16537577 30966160 14203600 1900000
               50176
60  487  P  1 59 1666 29904 366322 2827871 11492973 14779506 3055102 200948
60  487  S  1 59 1669 30143 379340 3191264 15736951 31414041 14795316 1509096
               50176
60  488  C  1 60 1595 24920 256960 1699328 7542700 21666120 29057160 6005540
               54400
60  488  P  1 59 1536 23384 233576 1465752 6076948 14195500 10799700 756432 1536
60  488  S  1 59 1547 23933 245472 1639212 7369068 21440104 29229304 7009636
               6944J
60  489  C  1 60 1473 15580 108630 569232 2375100 8041032 20411820 27631120
               7927936 26880
60  489  P  1 59 1414 14166 94464 474768 1900332 6031132 12977808 11042800
               1017400
60  489  S  1 59 1433 15401 108190 568572 2374572 8041048 20412460 27631944
               7928304 26880
60  490  C  1 60 1473 15300 103530 506712 1888600 5461992 11819970 17856300
               17302540 9710340 2361966
60  490  P  1 59 1414 13966 89564 417148 1471452 3915924 7449390 9423750 7290054
               3009318 472392
```

Table 2 (continued)

n	•	T	Coset weights
60	490	S	1 59 1433 15205 103122 506160 1888264 5462160 11820498 17836792 17382788 9710408 2361974
60	491	C	1 60 1770 34220 465524 4170312 19452957 30106500 12589960 287480
60	491	P	1 59 1711 32439 424032 3472203 12683946 13285177 3651516 3348
60	491	S	1 59 1711 32509 435879 3882761 18508421 30640377 13294426 312720
60	492	C	1 60 1575 23860 232430 1506453 6510310 18440755 25645240 13164070 1552230 31080
60	492	P	1 59 1516 22344 210086 1296367 5213943 11877922 11554494 3208974 168342 384
60	492	S	1 59 1527 22889 221598 1437803 6267786 18008903 25760576 13682664 1664238 32820
60	493	C	1 60 1725 31640 401319 3396972 17070871 33696576 11639940 858240 11520
60	493	P	1 59 1666 29974 371345 3025627 14045244 14026500 2008704 45312
60	493	S	1 59 1669 30143 376983 3159461 15875711 33002365 13734804 916068 11520
60	494	C	1 60 1770 33300 419835 3579424 17886046 42263040 45020920 21233040 3772292
60	494	P	1 59 1711 31589 388246 3191178 14694860 27568172 17460748 3772292
60	494	S	1 59 1711 31667 393716 3323448 16787237 41132342 45697053 22621340 4229146
60	495	C	1 60 1770 34220 460610 4337212 25422798 58988860 41219671 3748512 4014
60	495	P	1 59 1711 32509 428101 3909111 21513687 37475173 3744498 4014
60	495	S	1 59 1711 32509 431619 4034985 23891223 50267051 42779114 4774260 5196
60	496	C	1 60 1770 34220 467250 4519204 26586258 59068340 40053585 2687040
60	496	P	1 59 1711 32509 434741 4004463 22501795 37366545 2687040
60	496	S	1 59 1711 32509 437415 4193943 24926393 59068715 41743308 3813638 36
60	497	C	1 60 1890 24496 243057 1626120 7300488 21347964 38726019 40142196 20404927 3953124 352539 14904 243
60	497	P	1 59 1831 22965 220092 1406020 5894460 15453504 23272515 16069681 3615246 337878 14661 243
60	497	S	1 59 1543 23552 232472 1553502 7019367 20017492 38470609 40651731 21017900 4047489 350641 15039 243
60	498	C	1 60 1770 33844 452700 4285212 24861798 57490036 41792271 5291712 324
60	498	P	1 59 1711 32133 420567 3864645 20997153 36500083 5291300 324
60	498	S	1 59 1711 32170 424148 3975779 23286600 56678298 43395916 6422558 400
60	499	C	1 60 1770 33364 422625 3633300 18787000 45592440 44944705 17049700 2952675
60	499	P	1 59 1711 31653 390972 3242328 15544680 30047760 14097025 2952675
60	499	S	1 59 1711 31732 396534 3377295 17620143 44383003 45711710 19316775 3370765
60	500	C	1 60 1725 30720 369645 3072484 16386075 45158400 49032930 18846960 1318400 240
60	500	P	1 59 1666 29054 340591 2731893 13654182 31504218 17520712 1318240 240
60	500	S	1 59 1669 29301 348551 2876519 15402063 43634439 49033300 20560282 1523200 264
60	501	C	1 60 1725 31640 378295 2844412 11843043 29195504 42190940 33086600 12599460 1577056 94560 2752 32
60	501	P	1 59 1666 29974 340321 2496091 9347752 19047752 22343100 11113452 1406016 91840 2720 32
60	501	S	1 59 1669 30143 357127 2691741 11508459 29008745 42445852 33797540 12701164 1577804 94560 2752 32
60	502	C	1 60 1725 31640 392295 3261244 15032231 42713000 49602770 21102920 1279842

<p align="center">Table 2 (continued)</p>

n	#	T	Coset weights
--	----	-	------------------------------

<pre>
 n   #   T Coset weights
-- ---- - ------------------------------
60   502 P   1 59 1666 29974 362321 2898923 12933308 29779692 19023070 1279042
60   502 S   1 59 1669 30143 369335 3064541 15303863 42396833 50099570 21615224
                 1334418 64
60   503 C   1 60 1770 34220 472568 4751812 30118756 61066708 36515205 1256064
                 564
60   503 P   1 59 1711 32509 440059 4311753 25807003 35259705 1255500 564
60   503 S   1 59 1711 32509 442044 4397032 28115000 60895855 38549532 1703409
                 576
60   504 C   1 60 1725 31640 388365 3097092 13042699 30005364 37077543 27519412
                 14636547 6021120 1900544 430080 61440 4096
60   504 P   1 59 1666 29974 358391 2738701 10303998 19701366 17376177 10143235
                 4493312 1527808 372736 57344 4096
60   504 S   1 59 1669 30143 365597 2909767 12703219 29980523 37374311 27725908
                 14702083 6020288 1900544 430080 61440 4096
60   505 C   1 60 1725 31640 392295 3261244 15808263 43826500 50194405 19909420
                 632175
60   505 P   1 59 1666 29974 362321 2898923 12989340 30837160 19357245 632175
60   505 S   1 59 1669 30143 369335 3064541 15353655 43466827 50723037 20547294
                 661167
60   506 C   1 60 1770 33844 460939 4530024 27808281 60178752 38837238 2366184
                 636
60   506 P   1 59 1711 32133 428805 4101219 23707062 36471690 2365548 636
60   506 S   1 59 1711 32170 431567 4198928 26007774 59685717 40667145 3191990
                 666
60   507 C   1 60 1725 31264 360195 2458452 9003135 20520240 31786392 34002432
                 24065600 10096416 1891728
60   507 P   1 59 1666 29598 330597 2127055 6875280 13644960 18141432 15861000
                 8204608 1891728
60   507 S   1 59 1669 29804 340689 2340179 8815865 20463502 31906664 34157056
                 24151096 10117464 1892080
60   508 C   1 60 1725 30784 372525 3132900 17325483 51932160 49382310 12012960
                 26820
60   508 P   1 59 1666 29118 343407 2789493 14535990 37396170 11986140 26820
60   508 S   1 59 1669 29366 351425 2935785 16286151 49898898 50437974 14244756
                 31644
60   509 C   1 60 1690 27480 276025 1723484 6753340 17503120 32306800 45201920
                 27611883 2572800 150325
60   509 P   1 59 1631 25849 250976 1472508 5280832 12222288 20084512 25197408
                 2414475 150325
60   509 S   1 59 1636 26302 263589 1650323 6552678 17236692 32169904 45360048
                 27944201 2834640 176855
60   510 C   1 60 1595 24920 250550 1680992 7611766 22685704 41329705 40716540
                 17017085 1997896 97330 2752 32
60   510 P   1 59 1536 23384 227166 1453826 6157940 16527764 24001941 15914599
                 1903286 94610 2720 32
60   510 S   1 59 1547 23933 239710 1612225 7357134 22210543 41126969 41169130
                 18285973 2090222 97498 2752 32
60   511 C   1 60 1595 24920 256960 1863804 9646740 31960280 51236285 33185400
                 5967283 74400
60   511 P   1 59 1536 23384 233576 1630228 8016552 23943760 27292517 5092003
                 74400
60   511 S   1 59 1547 23933 245472 1779734 9256196 31079102 51119629 34135214
                 6486019 90742
60   512 C   1 60 1626 26420 283735 2078968 9714878 27169160 43129584 36211408
                 13803408 1620096 95520 2752 32
60   512 P   1 59 1567 24853 258882 1820086 7894792 19274360 23855216 12356192
                 1527296 92800 2720 32
60   512 S   1 59 1576 25316 269753 1969978 9316400 26607668 43112826 36013507
                 14308308 1689488 99968 2848 32
</pre>

Table 2 (continued)

n	#	T	Coset weights

```
 n    #   T  Coset weights
 --  ----  -  ------------------------------
 60  513 C  1 60 871 8120 54810 285012 1187550 4071600 11512870 25606340
              39590810 35138824 14624990 1994812 136962 4096
 60  513 P  1 59 812 7308 47502 237510 950040 3121560 8391310 17215030 22375780
              12763044 1861946 132866 4096
 60  513 S  1 59 871 8121 54810 285012 1187550 4071600 11512870 25606340
              39590810 35138824 14624990 1994812 136962 4096
 60  514 C  1 60 871 8120 54810 283504 1155410 3748720 9668270 19535460 29944252
              33033000 24285250 10500000 2000000
 60  514 P  1 59 812 7308 47502 236002 919408 2829312 6838958 12696502 17247750
              15785250 8500000 2000000
 60  514 S  1 59 871 8121 54810 283504 1155410 3748720 9668270 19535460 29944252
              33033000 24285250 10500000 2000000
 60  515 C  1 60 1626 26420 285270 2132232 9975394 26940792 39199815 31464064
              15681702 6111120 1903616 430080 61440 4096
 60  515 P  1 59 1567 24853 260417 1871815 8103579 18837213 20362602 11101462
              4580240 1530880 372736 57344 4096
 60  515 S  1 59 1576 25316 271372 2024738 9601232 26459273 39325501 32002476
              15933886 6161802 1913856 431104 61440 4096
 60  516 C  1 60 871 8120 54810 285012 1178322 3894120 10141110 20319052
              30315000 32002500 22418750 10200000 3000000 400000
 60  516 P  1 59 812 7308 47502 237510 940812 2953308 7187802 13131250 17183750
              14818750 7600000 2600000 400000
 60  516 S  1 59 871 8121 54810 285012 1178322 3894120 10141110 20319052
              30315000 32002500 22418750 10200000 3000000 400000
 60  517 C  1 60 1626 25636 257175 1703220 6964030 18175152 31311540 35829300
              26368152 11351448 2205468 24048 72
 60  517 P  1 59 1567 24069 233106 1470114 5494716 12680436 18631104 17198196
              9169956 2181492 23976 72
 60  517 S  1 59 1576 24592 245465 1627656 6739236 17848619 31149112 35999954
              26695382 11575720 2277972 32256 120
 60  518 C  1 60 1690 29720 346518 2427372 9202527 20851392 33611760 43723520
              23946624 76800 1744
 60  518 P  1 59 1631 28089 318429 2108943 7093584 13757808 19853952 23869568
              75056 1744
 60  518 S  1 59 1636 28362 327378 2306537 8993913 20872274 33825744 43821184
              23950288 80448 1904
 60  519 C  1 60 1575 23860 232430 1478704 6155550 16951360 32319860 45765280
              28253048 2889600 146400
 60  519 P  1 59 1516 22344 210086 1268618 4886932 12064428 20255432 25509048
              2743200 146400
 60  519 S  1 59 1527 22889 221598 1414498 5958782 16665802 32180564 45904720
              28501368 3100752 165024 144
 60  520 C  1 60 1770 34220 466904 4443772 24142054 52052164 41466087 10578640
              1032040
 60  520 P  1 59 1711 32509 434395 4009377 20132677 31919487 9546600 1032040
 60  520 S  1 59 1711 32509 437112 4128300 22780259 51337464 42046927 11610532
              1042854
 60  521 C  1 60 1595 24920 252908 1720692 7730110 21667464 34211495 33149452
              21722478 9904740 3105477 637440 76800 4096
 60  521 P  1 59 1536 23384 229524 1491168 6246942 15420522 18790973 14350479
              7363999 2540741 564736 72704 4096
 60  521 S  1 59 1547 23933 241404 1639806 7390126 20040904 33484903 33265057
              22453214 10590880 3445429 735105 92160 5120
 60  522 C  1 60 1626 26420 282163 2033492 9008718 23749212 36040200 32408544
              19061020 8323840 2643456 563200 71680 4096
 60  522 P  1 59 1567 24853 257310 1776182 7232536 16516676 19523524 12885020
              6176000 2147840 495616 67584 4096
 60  522 S  1 59 1576 25316 268569 1935121 8690200 23347648 36139762 32859924
              19283380 8372476 2653696 564224 71680 4096
```

Table 2 (continued)

n	#	T	Coset weights

```
 n   #   T  Coset weights
--  ---  -  --------------------------------
60  523  C  1 60 1522 21420 185999 1061656 4195468 11961144 25384591 41055372
            39079968 12817092 2254997 191320 6318
60  523  P  1 59 1463 19957 166042 895614 3299854 8661290 16723301 24332071
            10747897 2069995 185002 6318
60  523  S  1 59 1477 20617 178664 1023778 4075846 11721074 25084321 40863199
            35353662 13269245 2407705 210892 7188
60  524  C  1 60 1770 33520 435625 3921053 21945193 51520806 44283475 11633425
            442000
60  524  P  1 59 1711 31009 403016 3517237 18427956 33092850 11190625 442000
60  524  S  1 59 1711 31079 409137 3660540 20706390 50035051 45510995 12501335
            480630
60  525  C  1 60 1770 33935 461270 4424647 27144502 61051591 39500865 1598631
            456
60  525  P  1 59 1711 32224 429046 3995601 23148901 37902690 1590175 456
60  525  S  1 59 1711 32252 431958 4104952 25311287 60531545 41363431 2440056
            476
60  526  C  1 60 1770 32225 384000 2941743 13347565 30934020 37341040 26982000
            14108560 5013760 1863680 430080 61440 4096
60  526  P  1 59 1711 30514 353486 2588257 10759308 20174712 17167128 9785752
            4322016 1490944 372736 57344 4096
60  526  S  1 59 1711 30710 362624 2777121 12760112 30515790 37913016 27537200
            14145480 5013760 1863680 430080 61440 4096
60  527  C  1 60 1770 32491 420120 3910452 24490902 60201750 42194895 2964111
            1176
60  527  P  1 59 1711 30780 389340 3521112 20969790 39231960 2962935 1176
60  527  S  1 59 1711 30952 394428 3631759 22765713 59264541 43945739 4181553
            1272
60  528  C  1 60 1770 31891 385725 3199218 17493543 49460595 49105425 14417100
            122400
60  528  P  1 59 1711 30180 355545 2843673 14649870 34810725 14294700 122400
60  528  S  1 59 1711 30412 363493 2992016 16391474 47820697 50159085 16265600
            192300
60  529  C  1 60 1725 31640 413945 3931018 23403988 56081201 43224025 7064085
            64380 780
60  529  P  1 59 1666 29974 383971 3547047 19856941 36224340 7000485 63600 780
60  529  S  1 59 1669 30143 388773 3655180 21910274 55002233 44737467 8420469
            70680 780
60  530  C  1 60 1725 31420 397435 3438032 18579147 47006936 46572940 16582240
            1557616 50176
60  530  P  1 59 1666 29754 367681 3070351 15508796 31498140 15074800 1507440
            50176
60  530  S  1 59 1669 29941 373947 3218311 17567997 46505869 47606170 17304500
            1559080 50176
60  531  C  1 60 1725 30100 329910 2047848 8369980 22503000 37331280 34592080
            18012928 7470080 2201600 460800 61440 4096
60  531  P  1 59 1666 28434 301476 1746372 6623608 15879392 21451888 13140992
            5671936 1798144 403456 57344 4096
60  531  S  1 59 1669 28729 313390 1992572 8292844 22496584 37420896 34655944
            18817024 7470080 2201600 460800 61440 4096
60  532  C  1 60 1725 31220 387585 3241752 16194739 33092976 35362440 24625480
            13237254 5683200 1863680 430080 61440 4096
60  532  P  1 59 1666 29554 358031 2883721 13311018 19781958 15580482 9044990
            4192256 1490944 372736 57344 4096
60  532  S  1 59 1669 29745 364121 3014111 15061267 32300891 36068872 25536090
            13675526 5793792 1875968 430080 61440 4096
60  533  C  1 60 1725 29900 320010 1870368 7256725 19638000 34545315 36004840
            22384128 9070080 2539520 491520 61440 4096
60  533  P  1 59 1666 28234 291776 1578592 5678133 13950867 20585448 15419392
            6964736 2105344 434176 57344 4096
```

Table 2 (continued)

n	♦	T	Coset weights
60	533	S	1 59 1669 20533 303842 1821828 7191445 19620720 34613091 36072020
			22397056 9070080 2539520 491520 61440 4096
60	534	C	1 60 1725 29776 344475 2547117 10004407 25790695 37681560 34360440
			18196200 4372776 80496
60	534	P	1 59 1666 28110 316365 2230752 8573655 17225040 20456520 13903920
			4292200 80496
60	534	S	1 59 1669 20445 325203 2397934 10299959 25235386 37684664 34873312
			18604472 4573720 112896
60	535	C	1 60 1725 29776 347880 2875518 16007508 46564470 49605930 17619240
			1145820 19000
60	535	P	1 59 1666 28110 319770 2555748 13451760 33112710 16493220 1126820
			19000
60	535	S	1 59 1669 20445 328256 2685694 14925576 44755010 50497374 19618704
			1355908 20952
60	536	C	1 60 1690 29720 359755 3052313 15997918 42126146 49383400 21099025
			1366100 1600
60	536	P	1 59 1631 28009 331666 2720647 13277271 28848075 20534525 1364300
			1600
60	536	S	1 59 1636 28362 339271 2858913 15119526 41064425 49986730 23155805
			1661700 1600
60	537	C	1 60 1725 31640 405173 3532262 19098409 47380006 46044500 16114720
			1559056 50176
60	537	P	1 59 1666 29974 375199 3157063 15941346 31438660 14605840 1508880
			50176
60	537	S	1 59 1669 30143 380965 3303829 18045820 46933001 47120257 16791656
			1560152 50176
60	538	C	1 60 1595 24920 256960 1699328 7542700 21666120 37689480 35727140
			19355088 7526400 2201600 460800 61440 4096
60	538	P	1 59 1536 23384 233576 1465752 6076948 15589172 22100300 13626032
			5728256 1798144 403456 57344 4096
60	538	S	1 59 1547 23933 245472 1639212 7369868 21440184 37677432 35974244
			19547408 7566336 2205696 460800 61440 4096
60	539	C	1 60 1473 15580 108630 569232 2375100 8041032 21226380 38241360
			39106720 19592384 4229120 645120 61440 4096
60	539	P	1 59 1414 14166 94464 474768 1900332 6140700 15085600 23155600
			15951040 3641344 587776 57344 4096
60	539	S	1 59 1433 15401 108190 568572 2374572 8041048 21227020 38242184
			39107088 19592384 4229120 645120 61440 4096
60	540	C	1 60 1473 15380 103530 506712 1888600 5461992 12317490 21559660
			28897764 28965060 20900006 10200000 3000000 400000
60	540	P	1 59 1414 13966 89564 417148 1471452 3990540 8326950 13232710
			15665054 13300006 7600000 2600000 400000
60	540	S	1 59 1433 15205 103122 506160 1888264 5462160 12318018 21560152
			28898012 28965128 20900014 10200000 3000000 400000
60	541	C	1 60 1770 34220 467344 4297827 22561789 49713131 43786160 13057456
			291800 170
60	541	P	1 59 1711 32509 434835 3862992 18698797 31020334 12765826 291630 170
60	541	S	1 59 1711 32509 437496 3998993 21301598 49193320 45050378 13083781
			317680 202
60	542	C	1 60 1575 23860 232430 1506453 6510310 18440755 33189535 36570080
			24407013 10051560 2706560 512000 61440 4096
60	542	P	1 59 1516 22344 210086 1296367 5213943 13226812 19962723 16607357
			7799656 2251904 454656 57344 4096
60	542	S	1 59 1527 22889 221598 1437803 6267786 18008903 32954287 36870278
			24058481 10252836 2743744 512000 61440 4096
60	543	C	1 60 1725 31640 401319 3396972 17070871 33696576 34656900 23881600
			13052928 5667840 1863680 430080 61440 4096
60	543	P	1 59 1666 29974 371345 3025627 14045244 19651332 15005568 8876032
			4176896 1490944 372736 57344 4096

Table 2 (continued)

n	#	T	Coset weights

```
n    #    T  Coset weights
--  ----  -  ------------------------------
60  543  S  1  59 1669 30143 376983 3159461 15875711 33002365 35491428 24722660
              13427712 5760000 1873920 430080 61440 4096
60  544  C  1  60 1770 34220 460610 4337212 27157064 93689080 104920523 36141796
              1677504 15360 256
60  544  P  1  59 1711 32509 428101 3909111 23247953 70441127 34479396 1662400
              15104 256
60  544  S  1  59 1711 32509 431619 4034985 25337069 89470038 106396612 40651097
              2050204 29040 512
60  545  C  1  60 1770 34220 467250 4519204 28448616 96094660 104612250 33553904
              687505 15600 256
60  545  P  1  59 1711 32509 434741 4084463 24364153 71730507 32881743 672241
              15344 256
60  545  S  1  59 1711 32509 437415 4193943 26480219 91517545 106261105 38446160
              1036765 27512 512
60  546  C  1  60 1770 33844 452700 4285212 26937054 93333636 105488163 36549616
              1337784 15360 256
60  546  P  1  59 1711 32133 420567 3864645 23072409 70261227 35226936 1322600
              15104 256
60  546  S  1  59 1711 32170 424148 3975779 24998335 88509972 107003996 41585110
              1789025 34638 512
60  547  C  1  60 1770 33300 437791 4059544 24426630 78981544 104254590 51104640
              5096526 38640 420
60  547  P  1  59 1711 31589 406202 3653342 20773288 58208256 46046334 5050306
              38220 420
60  547  S  1  59 1711 31667 410337 3770445 22776399 75608953 104957250 54766080
              6071610 40524 420
60  548  C  1  60 1770 34220 442991 3854712 20802134 57530336 86556452 69637184
              26145196 3155712 189120 5504 64
60  548  P  1  59 1711 32509 410402 3444230 17437904 40092432 46464020 23173164
              2972032 103680 5440 64
60  548  S  1  59 1711 32509 416335 3606325 19723217 56498227 87200228 70099420
              26899052 3175676 189120 5504 64
60  549  C  1  60 1770 34220 456991 4379064 27777662 84823504 103308540 44900000
              2672764
60  549  P  1  59 1711 32509 424482 3954582 23823080 61000424 42300116 2672764
60  549  S  1  59 1711 32509 428543 4061557 25905561 82999307 104979196 47120040
              2902716 256
60  550  C  1  60 1770 34220 472568 4751812 31435441 92943208 97070472 35701920
              5171940 786508 65536
60  550  P  1  59 1711 32509 440059 4311753 27123688 65819520 31250952 4450960
              720972 65536
60  550  S  1  59 1711 32509 442044 4397032 29205997 90038960 99148601 38962644
              5353038 786524 65536
60  551  C  1  60 1770 34220 449851 4066952 22272838 50425960 77850526 50773224
              29718774 12048960 3801088 860160 122880 8192
60  551  P  1  59 1711 32509 417342 3649610 18623228 39002732 38047794 20725430
              8993344 3055616 745472 114688 8192
60  551  S  1  59 1711 32509 422299 3792329 21089409 57538679 78036190 59922616
              29944150 12063184 3801088 860160 122880 8192
60  552  C  1  60 1770 34220 456991 4379064 27886126 86610344 104513210 43194040
              1359630
60  552  P  1  59 1711 32509 424482 3954582 23931544 62670800 41834410 1359630
60  552  S  1  59 1711 32509 428543 4061557 25993609 84653167 106290122 48470436
              1503742
60  553  C  1  60 1770 33844 460938 4530024 29200446 88834536 90627769 40028236
              5861268 791028 65536
60  553  P  1  59 1711 32133 428805 4101219 25099227 63735309 34892460 5135776
              725492 65536
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Table 2 (continued)

n	#	T	Coset weights

```
n    #   T  Coset weights
--  ----  -  ------------------------------
60  553  S  1 59 1711 32170 431567 4198928 27176157 85061977 100306113 43332762
            6236643 791832 65536
60  554  C  1 60 1770 33844 431011 3567976 16769058 41577192 64804896 68799744
            48427536 20238912 3783456
60  554  P  1 59 1711 32133 398878 3169098 13599960 27977232 36827664 31972080
            16455456 3783456
60  584  S  1 59 1711 32170 405338 3343736 15983134 41078083 65275688 69437840
            48761488 20325840 3790368
60  555  C  1 60 1770 33364 440671 4139104 25790616 89376480 106995270 40668720
            989400
60  555  P  1 59 1711 31653 409018 3730086 22060530 67315950 39679320 989400
60  555  S  1 59 1711 31732 413214 3846155 24030474 85207032 108502776 45132750
            1269552
60  556  C  1 60 1690 29720 351091 2778552 14175746 44612496 83037371 82621664
            36455395 4169732 196370 5504 64
60  556  P  1 59 1631 28089 3230J2 2455550 11720196 32892300 50145071 32476593
            3978802 190930 5440 64
60  556  S  1 59 1636 28362 331615 2620326 13502996 43357979 82531527 83791161
            37652499 4414337 197390 5504 64
60  557  C  1 60 1690 29720 357501 3021364 17632605 62670904 103766525 68325300
            12459391 170300 15
60  557  P  1 59 1631 28089 329412 2691952 14940653 47730251 56036274 12289106
            170285 15
60  557  S  1 59 1636 28362 337377 2837123 16643233 60395764 103511043 70744001
            13724423 211939 15
60  558  C  1 60 1322 14480 104581 559832 2360540 8129472 23020065 51218820
            79196563 70293808 29260732 3992984 273924 8192
60  558  P  1 59 1263 13217 91364 468468 1892072 6237400 16782665 34436155
            44760408 25533480 3727252 265732 8192
60  558  S  1 59 1292 14270 103701 557313 2355444 8122192 23013329 51216079
            79202193 70304047 29267844 3994776 273924 8192
60  559  C  1 60 1626 26420 205270 2132232 10843198 35270712 67015423 74909872
            48781410 20564256 6334128 1305984 156672 8192
60  559  P  1 59 1567 24053 260417 1871015 8971383 26299329 41516094 33393770
            15387632 5176624 1157504 148480 8192
60  559  S  1 59 1576 25316 271372 2024730 10359100 34190593 67204837 75019886
            49066090 20842266 6358080 1307008 156672 8192
60  560  C  1 60 1322 14480 104581 559832 2342114 7774872 20277910 40646744
            60646840 64020120 44844952 20401620 6000000 800000
60  560  P  1 59 1263 13217 91364 468468 1873646 5901226 14376684 26270060
            34376788 29643332 15201620 5200000 800000
60  560  S  1 59 1292 14270 103701 557313 2337066 7768038 20272798 40647398
            60653328 64027896 44849542 20402754 6000000 800000
60  561  C  1 60 1690 29720 346518 2427372 9202527 20851392 33611760 43723520
            47581952 43073200 32261504 19846400 9922560 3969024 1240320
            291840 48640 5120 256
60  561  P  1 59 1631 28089 318429 2108943 7093584 13757808 19053952 23869568
            23712384 19360896 12900608 6945792 2976768 992256 248064 43776
            4064 256
60  561  S  1 59 1636 28362 327378 2306537 8993913 20072274 33825744 43821184
            47595136 43076864 32262144 19846464 9922560 3969024 1240320
            291840 48640 5120 256
60  562  C  1 60 1575 23860 232430 1478704 6155550 16951360 32319860 45768280
            50801816 45526400 33431360 20200960 9985920 3974144 1240320
            291840 48640 5120 256
60  562  P  1 59 1516 22344 210086 1268618 4886932 12064428 20255432 25509848
            25291968 20234432 13196928 7004032 2981888 992256 248064 43776
            4064 256
```

Table 2 (continued)

```
n    #   T  Coset weights
-- ----  -  --------------------------------
60  562  S  1 59 1527 22089 221598 1414498 5958782 16665802 32180564 45904720
            51067096 45717536 33509952 20220864 9988992 3974400 1240320
            291840 48640 5120 256
60  563  C  1 60 1770 34220 466904 4443"/2 26085793 75179104 95260036 53136696
            12336888 1423876 65536
60  563  P  1 59 1711 32509 434395 4009377 22076416 53102688 42158148 10978548
            1358340 65536
60  563  S  1 59 1711 32509 437112 4128300 24437176 72834232 96301030 55794833
            12975162 1427795 65536
60  564  C  1 60 1690 29720 349757 2741852 13780860 41678640 69699370 60599304
            44017644 19885080 6214806 1274880 153600 8192
60  564  P  1 59 1631 28089 321668 2420184 11360676 30317964 39381406 29217890
            14799746 5085334 1129472 145408 8192
60  564  S  1 59 1636 28362 330017 2572799 12977950 39839056 68306042 69035510
            45522820 21261488 6894942 1470214 184320 10240
60  565  C  1 60 1626 26420 282163 2033492 9828296 31002132 61396878 74260072
            54701264 25315136 7830348 1572224 177152 8192
60  565  P  1 59 1567 24853 257310 1776182 8052114 22950018 38446860 35813212
            18888052 6427084 1403264 168960 8192
60  565  S  1 59 1576 25316 268569 1935121 9415378 30095056 60717120 74808428
            55736656 25765864 7901276 1578892 177152 8192
60  566  C  1 60 1770 33520 435625 3966956 23805673 76252392 101244515 53950400
            8730144 6400
60  566  P  1 59 1711 31809 403816 3563140 20242533 56009859 45234656 8723744
            6400
60  566  S  1 59 1711 31879 409137 3699153 22352352 73913315 101791207 56566650
            9663320 6672
60  567  C  1 60 1770 34120 470930 4750712 32990628 111089450 100743842 18343306
            10557
60  567  P  1 59 1711 32409 438521 4312191 28678437 82411013 18332829 10557
60  567  S  1 59 1711 32419 440542 4392634 30475561 106800059 103205511 22912857
            14402
60  568  C  1 60 1770 33520 436140 3842616 20964171 59228700 80071650 58616960
            28893756 11627520 3727360 860160 122880 8192
60  568  P  1 59 1711 31909 404331 3438285 17525086 41702814 30360836 20240124
            8645632 2901888 745472 114688 8192
60  568  S  1 59 1711 31879 409624 3590822 19749289 57549982 81002347 60548218
            29204516 11628416 3727360 860160 122880 8192
60  569  C  1 60 1770 33392 445380 4322142 29180878 100426728 104447652 29435406
            142047
60  569  P  1 59 1711 31681 413699 3908443 25272435 75154293 29293359 142047
60  569  S  1 59 1711 31763 417572 4008638 27029828 96502917 106571255 33674345
            197361 6
60  570  C  1 60 1770 32792 410985 3566316 20837239 71829600 105269313 58788960
            7698420
60  570  P  1 59 1711 31081 379904 3186412 17650827 54178773 51090540 7698420
60  570  S  1 59 1711 31223 386637 3330005 19480598 68473223 105147349 62374030
            9201432 8300
60  571  C  1 60 1725 31640 413945 4022236 26827048 89928622 105173775 40226090
            1891234 9080
60  571  P  1 59 1666 29974 383971 3638265 23188783 66739839 38433936 1792154
            9080
60  571  S  1 59 1669 30143 388773 3734626 24913580 86281894 106675724 44161650
            2237981 9356
60  572  C  1 60 1725 31420 397435 3438032 18579147 56043760 88806320 71542280
            26243916 3156672 189120 5504 64
60  572  P  1 59 1666 29754 367681 3070351 15508796 40534964 48271356 23270924
            2972992 183680 5440 64
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Table 2 (continued)

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n    #   T  Coset weights
--  ---- -  --------------------------------
60  572  S  1 59 1669 29941 373947 3218311 17567997 54692901 89305630 73112196
              26779300 3158816 189120 5504 64
60  573  C  1 60 1725 30100 329910 2077656 9066580 28470120 60486840 79851760
              57983872 22592000 6205440 1187840 143360 8192
60  573  P  1 59 1666 28434 301476 1776180 7290400 21179720 39307120 40544640
              17439232 5152768 1052672 135168 8192
60  573  S  1 59 1669 28729 313390 2020004 8966212 28410096 60560984 79970808
              58026672 22592000 6205440 1187840 143360 8192
60  574  C  1 60 1725 31420 397485 3521112 19998885 57582000 79214241 60018944
              30681423 12195840 3801088 860160 122880 8192
60  574  P  1 59 1666 29754 367731 3153381 16845504 40736496 38477745 21541199
              9140224 3055616 745472 114688 8192
60  574  S  1 59 1669 29941 373669 3278743 18669829 55942757 79700561 61680852
              31523455 12417024 3825664 860160 122880 8192
60  575  C  1 60 1725 30100 329910 2077656 9097821 29070480 63111855 81450440
              56228736 20597760 5324800 983040 122880 8192
60  575  P  1 59 1666 28434 301476 1776180 7321641 21740839 41363016 40087424
              16141312 4456448 868352 114688 8192
60  575  S  1 59 1669 28729 313390 2020004 8995925 28999999 63190231 81579945
              56268032 20597760 5324800 983040 122880 8192
60  576  C  1 60 1725 30692 369255 2962122 14394268 39391638 65627127 71067984
              49964280 20765232 3861072
60  576  P  1 59 1666 29026 340229 2621893 11772375 27619263 38007864 33060120
              16904160 3861072
60  576  S  1 59 1669 29285 348483 2785479 13704013 38595249 65710242 71826304
              50550768 20981352 3894552
60  577  C  1 60 1725 30692 372660 3229536 19650334 72338640 108638208 58579200
              5554800 39600
60  577  P  1 59 1666 29026 343634 2885902 16764432 55574208 53064000 5515200
              39600
60  577  S  1 59 1669 29285 351536 3020648 18337402 68697328 108877152 62424184
              6649968 46224
60  578  C  1 60 1690 29720 359755 3098216 17451598 55944692 93898540 75079760
              22506144 65280
60  578  P  1 59 1631 28089 331666 2766550 14685048 41259644 52638896 22440064
              65280
60  578  S  1 59 1636 28362 339271 2897526 16386618 53814549 93506306 77375720
              23983896 101504
60  579  C  1 60 1725 31640 405173 3532262 19098409 56781390 88720620 70711160
              25802616 3155712 189120 5504 64
60  579  P  1 59 1666 29974 375199 3157063 15941346 40840044 47880576 22830584
              2972032 183680 5440 64
60  579  S  1 59 1669 30143 380965 3303829 18045820 55401605 89313365 72240444
              26286724 3156144 189120 5504 64
60  580  C  1 60 1595 24920 256960 1729136 8210860 27596760 60864570 81022500
              58534942 22648320 6205440 1187840 143360 8192
60  580  P  1 59 1536 23384 233576 1495560 6715300 20081460 39903110 41039390
              17495552 5152768 1052672 135168 8192
60  580  S  1 59 1547 23933 245472 1666644 8006924 27239336 60756282 81391188
              58054606 22700544 6209536 1187840 143360 8192
60  581  C  1 60 1473 15580 108630 569232 2375100 8143992 23026760 51213400
              79181860 70277648 29249980 3989624 273924 8192
60  581  P  1 59 1414 14166 94464 474768 1900332 6243660 16783100 34430300
              44751560 25526088 3723892 265732 8192
60  581  S  1 59 1433 15401 108190 568572 2374572 8143992 23027352 51214192
              79182276 70277696 29249980 3989624 273924 8192
60  582  C  1 60 1473 15580 108630 569232 2356644 7789032 20283210 40638764
              60630264 64005060 44837506 20400000 6000000 800000
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Table 2 (continued)

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60  582 P  1 59 1414 14166 94464 474768 1081076 5907156 14376054 26262710
               34367594 29637506 15200000 5200000 800000
60  582 S  1 59 1433 15401 108190 568572 2356116 7789032 20283730 40639424
               60630704 64005236 44837546 20400004 6000000 800000
60  583 C  1 60 1770 34220 467344 4362842 24557049 68948892 91685940 60018254
               17504008 61460 1136
60  583 P  1 59 1711 32509 434035 3920007 20629042 40319050 43366090 17044164
               60324 1136
60  583 S  1 59 1711 32509 437496 4056340 23050541 67309201 93107799 62676443
               17610064 67096 1216
60  584 C  1 60 1575 23060 232630 1530276 6986870 22372540 49920195 74764500
               67243937 33966940 9601360 1573360 143360 8192
60  584 P  1 59 1516 22344 210006 1320190 5666600 16705060 33222336 41942166
               25701772 8263160 1430192 135160 8192
60  584 S  1 59 1527 22000 221590 1658320 6683010 21640320 40967251 74517066
               60120017 36910079 10065920 1642096 149504 8192
60  585 C  1 60 1725 31600 401319 3490572 19100151 51264720 71733000 61003004
               37400670 16603260 5290622 1126400 143360 8192
60  585 P  1 59 1666 29974 371345 3119227 16020024 35235796 36400004 25104000
               12303070 4290390 991232 135160 8192
60  585 S  1 59 1689 30143 376903 3245333 17010047 40945797 72420000 63012218
               30143182 16040006 5307006 1126400 143360 8192
60  586 C  1 60 1770 32900 424575 3936600 26311050 101620370 122911900 13300000
60  586 P  1 59 1683 30615 375390 3303090 20275102 62296440 44663030 1301900
60  586 S  1 59 1711 31319 307654 3639010 24061134 94713000 126000076 10001100
60  587 C  1 60 1770 33600 441465 4220305 20454600 109403015 119000000 9007200
               3900
60  587 P  1 59 1708 31434 401373 3654004 22463557 67204856 39366094 1016642
60  587 S  1 59 1711 43764 413952 3913759 26205860 103441503 121425946 12982416
               8480
60  588 C  1 60 1770 33935 454065 4190347 24467724 78206310 109699110 49437648
               10454430 77760 1296
60  588 P  1 59 1711 31956 410917 3554550 18559926 48718638 50329350 12242772
               360072 7776
60  588 S  1 59 1711 32252 425573 3894801 22848174 74954925 110076651 54030753
               2090908 78192 1296
60  589 C  1 60 1770 33335 437910 4094463 25916603 94437816 127994820 15511000
               6600
60  589 P  1 59 1711 31624 406284 3608375 22228308 66317890 60755242 708224
60  589 S  1 59 1711 31712 410970 3810004 24161028 90083521 130671152 19256402
               8088
60  590 C  1 60 1770 33215 431805 3904285 25514560 90704620 126239940 13524120
               1080
60  590 P  1 59 1708 31249 391463 3414704 19982321 63016089 46170505 1209882
60  590 S  1 59 1711 31602 405366 3705486 23671105 93133506 129930154 17506360
               2196
60  591 C  1 60 1710 30700 389340 3521112 21675094 79600400 121033045 48229600
               1797570 77760 1296
60  591 P  1 59 1596 27702 335334 2853945 15941227 49770001 54201100 10630006
               364382 7776
60  591 S  1 59 1654 29290 365128 3266630 20075191 74825006 121164060 66727004
               1901328 78192 1296
60  592 C  1 60 1710 30300 369225 3240000 20793195 88290720 137901235 17727790
               1260
60  592 P  1 59 1593 27096 315405 2627370 15730354 54006405 56200000 2412000
60  592 S  1 59 1654 28860 346917 3010015 19187991 82291377 139970992 23603070
               4012
60  593 C  1 60 1770 32940 424055 3887840 24715330 94436640 130100100 16732720
               15960
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Table 2 (continued)

n	d	?	Coset weights
60	593	P	1 59 1693 30415 374870 3252022 18941972 58550304 51172364 1003220
60	593	S	1 59 1711 31319 397005 3593467 22710191 80071531 132314000 21291004 24360
60	594	C	1 60 1725 31640 412125 3938236 26291155 101123760 122187450 14240500 200724
60	594	P	1 59 1666 29904 378637 3443967 20800070 63947632 43960432 1567262 70
60	594	S	1 59 1669 30143 307156 3660433 24307017 95959977 126569034 17200271 210096
60	595	C	1 60 1725 31520 409245 3949090 27275455 106695540 119994270 10071210 6540
60	595	P	1 59 1663 29677 376495 3459061 21032600 66751040 41063220 708036 60
60	595	S	1 59 1669 30033 384451 3664869 25140181 100426829 124695502 16072730 11052
60	596	C	1 60 1770 34120 471408 4732292 32568079 121638447 101597755 7190000 200704
60	596	P	1 59 1711 32273 432971 4147827 25050104 72300111 30435113 937580
60	596	S	1 59 1711 32419 440873 4374363 30053538 118569314 109566304 0180000 204736
60	597	C	1 60 1725 30100 329910 2077656 9254280 32192760 82004100 118736560 31710704 107520
60	597	P	1 59 1666 20434 301476 1776180 7478100 24276900 52114720 44170560 4069632
60	597	S	1 59 1669 20729 313390 2020004 9144744 32060040 82031652 118036224 31791424 107520
60	598	C	1 60 1725 29900 320430 1856280 7109160 19047760 41511060 64100000 69680600 48009720 16000000
60	598	P	1 59 1663 27957 279940 1470412 5155232 13155216 26053532 34052324 32018792 10402592 4800000
60	598	S	1 59 1669 20619 304776 1813556 7060912 19830252 41534404 64146648 69606616 48025272 16002592
60	599	C	1 60 1770 33935 465408 4589937 30017911 111507600 114517920 7299600 1464
60	599	P	1 59 1711 32224 433104 4156753 25861158 75579886 27028836 323916
60	599	S	1 59 1711 32252 435541 4253522 27919847 105949917 120464774 9376004 1730
60	600	C	1 60 1725 29900 320010 1875336 7421200 21828240 47390800 71501600 69640224 38886720 9458400 1080
60	600	P	1 59 1666 20234 291776 1503560 5037640 15692648 29079224 37760920 29196424 12046904 1890672
60	600	S	1 59 1669 20533 303842 1826400 7349872 21779232 47408416 71652304 69704032 38914752 9464608 1656
60	601	C	1 60 1725 31100 388260 3494130 22526950 90750990 127942140 23073000 227100
60	601	P	1 59 1663 29257 353048 3017212 17913588 60040620 50790604 2062596 1080
59	601	S	1 59 1669 29635 364882 3245246 20761106 84517554 130199268 20997600 318300 40
60	602	C	1 60 1710 30780 389350 3490212 19998279 61776096 92425056 67216320 22000896 1106112 576
60	602	P	1 58 1596 27702 335352 2804845 14243648 37081704 45937104 26050000 6785472 149376
60	602	S	1 59 1654 29290 365143 3241053 18640042 58931150 91493936 70125184 24069120 1537056 960
60	603	C	1 60 1665 28110 319770 2560716 14254860 49213410 89912880 78233760 30647424 3198960 63840
60	603	P	1 58 1545 24864 267594 2004546 10167928 30658680 47118120 33260816 10057152 652096 4320
60	603	S	1 59 1612 26832 301422 2388844 13231648 46214262 87560504 80009680 33680640 4122192 97760

Table 2 (continued)

n	#	T	Coset weights
60	604	C	1 60 1690 29600 359505 3170925 19923660 76803915 125036060 42765760 344280
60	604	P	1 59 1628 27774 325911 2737848 15780804 50592377 56191930 8555184 4212
60	604	S	1 59 1636 28252 338983 2962360 18567388 72751253 125129268 48107820 548436
60	605	C	1 60 1770 34220 476805 4833932 33570152 122751072 98083265 7682195 201184
60	605	P	1 59 1711 32439 439239 4243997 26567395 72029019 29931356 971712
60	605	S	1 59 1711 32509 445680 4463812 30933241 116922632 106704030 8725853 205128
60	606	C	1 60 1595 24920 256960 1729136 8312540 30378360 80531035 112653020 34328269 218760
60	606	P	1 59 1536 23384 233576 1495560 6816980 23144996 51926199 46037061 4536840 1536
60	606	S	1 59 1547 23933 245472 1666644 8106108 29929400 80062955 113118349 35042797 238191
60	607	C	1 60 1595 24800 250300 1571030 6528890 19194210 41184820 64356550 70339680 48635040 16290280 58200
60	607	P	1 59 1533 23015 219590 1264410 4807880 12864994 24849954 34348852 32384600 18605896 4846096 40
60	607	S	1 59 1547 23823 239362 1519794 6408082 19028634 41062100 64369054 70494040 48815976 16390000 81384
60	608	C	1 60 1626 25360 250149 1653072 7953900 29310453 78714840 113429911 36010472 285612
60	608	P	1 59 1567 23793 226356 1426716 6527184 22429361 51231763 47130940 5210564 1424
60	608	S	1 59 1576 24358 239909 1597045 7755600 28820383 78024964 113707895 37924262 339404
60	609	C	1 60 1626 25175 241929 1505937 6513520 20548308 46963080 72096616 70866576 39353040 9519408 180
60	609	P	1 59 1567 23608 218321 1287616 5225904 15094540 30077940 38587404 29663196 12147780 1889784
60	609	S	1 59 1576 24191 232393 1460000 6384256 20328794 46811026 73026420 71143608 39481680 9541152 300
60	610	C	1 60 1770 34220 471790 4516912 27341542 89617680 104722013 36015700 4559760 344000 10000
60	610	P	1 59 1711 32439 430306 3852933 20690471 53846288 44297660 10118552 905300 34000
60	610	S	1 59 1711 32509 441334 4103230 25389498 85257010 106597103 41090097 5034424 395600 12000
60	611	C	1 60 1690 29720 359533 3055996 17704300 64605911 113498260 62120265 6933960 125760
60	611	P	1 59 1631 28089 331444 2724552 14979748 46313841 53936893 15201606 690328 1536
60	611	S	1 59 1636 28362 339073 2863365 16635812 61730517 113244500 65060127 7590204 133800
60	612	C	1 60 1770 34220 474879 4720152 30907054 113561520 111999180 6609100 47520
60	612	P	1 59 1711 32509 442370 4277782 26629272 76370240 26099384 364400
60	612	S	1 59 1711 32509 444039 4371613 28757865 108164091 118254044 8361190 47526
62	1	C	1 62 63 2
62	1	P	1 61 2
62	1	S	1 61 63 3
62	2	C	1 62 1023 962
62	2	P	1 61 962
62	2	S	1 61 992 963 31

<div align="center">Table 2 (continued)</div>

n	#	T	Coset weights
62	3	C	1 62 931 1984 1116 2
62	3	P	1 61 870 1114 2
62	3	S	1 61 931 1985 1116 2
62	4	C	1 62 931 1984 1116 2
62	4	P	1 61 870 1114 2
62	4	S	1 61 931 1985 1116 2
62	5	C	1 62 931 1984 1116 2
62	5	P	1 61 870 1114 2
62	5	S	1 61 931 1985 1116 2
62	6	C	1 62 1891 22878 7936
62	6	P	1 61 1740 13622 960
62	6	S	1 61 1830 22188 8688
62	7	C	1 62 1891 22878 7936
62	7	P	1 61 1740 13622 960
62	7	S	1 61 1830 22188 8688
62	8	C	1 62 1891 22878 7936
62	8	P	1 61 1740 13582 1000
62	8	S	1 61 1830 22188 8688
62	9	C	1 62 1891 22878 7936
62	9	P	1 61 1740 13622 960
62	9	S	1 61 1830 22188 8688
62	10	C	1 62 1891 22878 7936
62	10	P	1 61 1725 13487 1110
62	10	S	1 61 1830 22188 8688
62	11	C	1 62 1891 23008 30876 8898
62	11	P	1 61 1830 21978 8898
62	11	S	1 61 1830 23088 30937 9619
62	12	C	1 62 1891 23008 30876 8898
62	12	P	1 61 1830 21978 8898
62	12	S	1 61 1830 23088 30937 9619
62	13	C	1 62 1891 23008 30876 8898
62	13	P	1 61 1830 21978 8898
62	13	S	1 61 1830 23088 30937 9619
62	14	C	1 62 1891 23008 30876 8898
62	14	P	1 61 1830 21978 8898
62	14	S	1 61 1830 23088 30937 9619
62	15	C	1 62 1891 23008 30876 8898
62	15	P	1 61 1830 21978 8898
62	15	S	1 61 1830 23088 30937 9619
62	16	C	1 62 1891 30014 63054 34660 590
62	16	P	1 61 1830 28984 34070 590
62	16	S	1 61 1830 29419 63053 36056 652
62	17	C	1 62 1891 30014 63054 34660 590
62	17	P	1 61 1830 28984 34070 590
62	17	S	1 61 1830 29419 63053 36056 652
62	18	C	1 62 1891 30014 63550 34660 94
62	18	P	1 61 1830 28984 34566 94
62	18	S	1 61 1830 29419 63549 36056 156
62	19	C	1 62 1891 30014 63550 34660 94
62	19	P	1 61 1830 28984 34566 94
62	19	S	1 61 1830 29419 63549 36056 156
62	20	C	1 62 1891 30014 63550 34660 94
62	20	P	1 61 1830 28984 34566 94
62	20	S	1 61 1830 29419 63549 36056 156
62	21	C	1 62 931 8990 35030 56482 29574 2
62	21	P	1 61 870 8120 26910 29572 2
62	21	S	1 61 931 8991 35030 56482 29574 2
62	22	C	1 62 931 8370 36642 55242 27900 1860 62 2

Table 2 (continued)

n	#	T	Coset weights
62	22	P	1 61 870 7500 29142 26100 1800 60 2
62	22	S	1 61 931 8371 36642 55242 27900 1860 62 2
62	23	C	1 62 931 8990 44392 56484 20212
62	23	P	1 61 870 8120 36272 20212
62	23	S	1 61 931 8991 44392 56484 20212
62	24	C	1 62 931 8990 39246 56482 25358 2
62	24	P	1 61 870 8120 31126 25356 2
62	24	S	1 61 931 8991 39246 56482 25358 2
62	25	C	1 62 1091 36270 225680 562464 222208
62	25	P	1 61 1030 32200 175140 288176 26880
62	25	S	1 61 1030 34590 227421 562465 222208
62	26	C	1 62 1091 35650 364126 637670 9176
62	26	P	1 61 1030 33820 291596 196980
62	26	S	1 61 1030 34030 348092 652641 11921
62	27	C	1 62 1091 36270 358205 651775 372
62	27	P	1 61 1030 33760 277215 211421
62	27	S	1 61 1030 34590 343926 667236 932
62	28	C	1 62 1091 35650 376805 629951 4216
62	28	P	1 61 1015 32515 276640 213251 5
62	28	S	1 61 1030 34020 359197 646711 6756
62	29	C	1 62 1091 36270 366265 643746 341
62	29	P	1 61 1030 33760 282725 205911
62	29	S	1 61 1030 34590 350491 660772 831
62	30	C	1 62 1091 35650 376805 631315 2852
62	30	P	1 61 1015 32515 276550 213346
62	30	S	1 61 1030 34020 359192 648450 5022
62	31	C	1 62 1091 35650 364157 639499 7316
62	31	P	1 61 1030 33820 291647 196889 40
62	31	S	1 61 1030 34030 348098 654165 10391
62	32	C	1 62 1091 36270 358205 651806 341
62	32	P	1 61 1030 33760 277215 211421
62	32	S	1 61 1030 34590 343926 667257 911
62	33	C	1 62 1091 35650 376805 631005 3162
62	33	P	1 61 1015 32515 277690 212201 5
62	33	S	1 61 1030 34020 359197 648055 5412
62	34	C	1 62 1091 35650 363537 640894 6541
62	34	P	1 61 1030 33820 291677 196884 15
62	34	S	1 61 1030 34030 347528 655295 9831
62	35	C	1 62 1091 30814 270845 739971 767839 277729
62	35	P	1 61 1030 28904 249861 490110 277729
62	35	S	1 61 1030 29419 263933 724565 782285 294531 527
62	36	C	1 62 1091 36270 261020 790004 785664 222240
62	36	P	1 61 1030 34440 226500 563424 222240
62	36	S	1 61 1030 34590 260521 791685 786224 222240
62	37	C	1 62 1091 35650 364126 962116 681566 50716 992 32
62	37	P	1 61 1030 33820 330306 631810 49756 960 32
62	37	S	1 61 1030 34030 348092 956317 697661 50136 992 32
62	38	C	1 62 1091 36270 375410 1010445 671274 1799
62	38	P	1 61 1030 34440 340970 669475 1799
62	38	S	1 61 1030 34590 359311 1010411 687434 3514
62	39	C	1 62 1091 36270 406472 1008028 640212 4216
62	39	P	1 61 1030 34440 372032 635996 4216
62	39	S	1 61 1030 34590 386693 1006984 660052 6941
62	40	C	1 62 1091 30814 270845 739971 767839 277729
62	40	P	1 61 1030 28904 249861 490110 277729
62	40	S	1 61 1030 29419 263933 724565 782285 294531 527
62	41	C	1 62 1091 36270 380060 1008306 666624 3938
62	41	P	1 61 1030 34440 345620 662686 3938

```
n    #    T  Coset weights
--   ----  -  ------------------------------
62   41 S  1 61 1030 34590 363041 1007957 603704 5960
62   42 C  1 62 1091 36270 406162 1009392 640522 2852
62   42 P  1 61 1030 34440 371722 637670 2852
62   42 S  1 61 1030 34590 386458 1008743 660287 5182
62   43 C  1 62 1091 35650 364157 959481 601535 53351 992 32
62   43 P  1 61 1030 33020 330337 629144 52391 960 32
62   43 S  1 61 1030 34030 348098 954397 697655 60056 992 32
62   44 C  1 62 1091 36270 375410 1010476 671274 1760
62   44 P  1 61 1030 34440 340970 669506 1760
62   44 S  1 61 1030 34590 359311 1010432 607434 3493
62   45 C  1 62 1091 36270 406472 1008462 640212 3702
62   45 P  1 61 1030 34440 372032 636430 3702
62   45 S  1 61 1030 34590 386693 1007033 660052 6092
62   46 C  1 62 1091 35650 363537 961651 682155 51181 992 32
62   46 P  1 61 1030 33020 329717 631934 50221 960 32
62   46 S  1 61 1030 34030 347528 955032 698225 59421 992 32
62   47 C  1 62 1091 30014 270845 739971 767839 277729
62   47 P  1 61 1030 28904 249861 490110 277729
62   47 S  1 61 1030 29419 263933 724565 702285 294531 527
62   48 C  1 62 1091 37020 310651 1170374 1770721 888896 13000
62   48 P  1 61 1030 35990 274661 895713 875008 13000
62   48 S  1 61 1030 35990 306051 1171663 1775302 889430 13000
62   49 C  1 62 1091 37200 447237 1793412 1646039 266414 1984 64
62   49 P  1 61 1030 35370 411867 1301545 264494 1920 64
62   49 S  1 61 1030 35430 423082 1760602 1669455 300995 1984 64
62   50 C  1 62 1091 37020 463946 1970732 1631314 88538
62   50 P  1 61 1030 35990 427956 1542776 88538
62   50 S  1 61 1030 35990 439066 1941416 1655455 119605
62   51 C  1 62 1091 37020 403383 1954242 1611077 105028
62   51 P  1 61 1030 35990 447393 1506849 105028
62   51 S  1 61 1030 35990 456743 1928526 1638570 132575
62   52 C  1 62 1091 37020 468286 1980218 1626974 79052
62   52 P  1 61 1030 35990 432296 1547922 79052
62   52 S  1 61 1030 35990 463306 1950745 1652015 110356
62   53 C  1 62 1091 37020 403383 1959084 1611077 99386
62   53 P  1 61 1030 35990 447393 1512491 99386
62   53 S  1 61 1030 35990 456743 1933028 1638570 128073
62   54 C  1 62 1091 37200 445710 1793350 1647550 266476 1984 64
62   54 P  1 61 1030 35370 41034P 1303002 264556 1920 64
62   54 S  1 61 1030 35430 422628 1760979 1670709 300610 1984 64
62   55 C  1 62 1091 37020 463946 1970732 1631314 88538
62   55 P  1 61 1030 35990 427956 1542776 88538
62   55 S  1 61 1030 35990 439066 1941406 1655455 119695
62   56 C  1 62 1091 37020 403383 1958892 1611077 100378
62   56 P  1 61 1030 35990 447393 1511499 100378
62   56 S  1 61 1030 35990 456743 1931676 1638570 129425
62   57 C  1 62 1091 37200 444708 1781570 1648457 270256 2015 64
62   57 P  1 61 1030 35370 409418 1372152 276305 1951 64
62   57 S  1 61 1030 35430 421873 1749689 1671433 311900 2015 64
62   58 C  1 62 931 8990 62930 339022 1199142 1726452 834086 21024 62 2
62   58 P  1 61 870 8120 54010 285012 914130 812322 21764 60 2
62   58 S  1 61 931 8991 62930 339022 1199142 1726452 834086 21024 62 2
62   59 C  1 62 931 8990 62930 339022 1199142 1726940 834086 21328 62 2
62   59 P  1 61 870 8120 54010 285012 914130 812810 21268 60 2
62   59 S  1 61 931 8991 62930 339022 1199142 1726940 834086 21328 62 2
62   60 C  1 62 931 8990 62930 332010 1171490 1721360 861738 34720 62 2
62   60 P  1 61 870 8120 54010 277200 894290 827070 34660 60 2
62   60 S  1 61 931 8991 62930 332010 1171490 1721360 861738 34720 62 2
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Table 2 (continued)

n	#	T	Coset weights

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n    #   T  Coset weights
--  ---- -  ------------------------------
62   61 C   1 62 1091 37020 520955 4898496 20494658 7588110 12431
62   61 P   1 61 1030 35640 473555 4084853 10972269 1209007
62   61 S   1 61 1030 35990 489460 4580091 19929790 8501126 16083
62   62 C   1 62 1091 37200 512337 4946701 21520634 6535296 310
62   62 P   1 61 1030 35370 472997 4204897 11277890 784162
62   62 S   1 61 1030 35430 481237 4603326 20769492 7661910 1137
62   63 C   1 62 1091 37020 520955 4898496 20562486 7531698 1023
62   63 P   1 61 1030 35640 473555 4084713 11036399 1145011 6
62   63 S   1 61 1030 35990 489460 4580091 19976820 8467437 2734
62   64 C   1 62 1091 37200 511965 4946391 21725916 6330944 62
62   64 P   1 61 1015 34545 454390 4003053 11355154 928197
62   64 S   1 61 1030 35420 480516 4596782 20953302 7406386 134
62   65 C   1 62 1091 37020 520955 4898496 20494658 7588110 12431
62   65 P   1 61 1030 35640 473555 4084853 10972129 1209147
62   65 S   1 61 1030 35990 489460 4580091 19929790 8501166 16043
62   66 C   1 62 1091 36270 473060 4134284 16210644 12543344 154076
62   66 P   1 61 1030 34440 438620 3533808 9744372 3019774 4310
62   66 S   1 61 1030 34590 445681 3807325 15958052 13050980 175912
62   67 C   1 62 1091 36270 473060 4134284 16210644 12543344 154076
62   67 P   1 61 1030 34440 438620 3533808 9744372 3019934 4150
62   67 S   1 61 1030 34590 445681 3807325 15958052 13050724 176168
62   68 C   1 62 1091 36270 473060 4134284 16206924 12563804 130136
62   68 P   1 61 1030 34440 438620 3533808 9731322 3035234 1900
62   68 S   1 61 1030 34590 445681 3807325 15954732 13060994 161218
62   69 C   1 62 1091 37200 512337 4941276 21524354 6537311
62   69 P   1 61 1030 35370 472997 4200342 11287573 779042
62   69 S   1 61 1030 35430 481237 4599126 20773932 7662644 171
62   70 C   1 62 1091 36270 473060 4134284 16334644 12490580 75640
62   70 P   1 61 1030 34440 438620 3540640 9804272 2956504 760
62   70 S   1 61 1030 34590 445681 3807325 16054652 13020170 102122
62   71 C   1 62 1091 36270 473060 4053932 16366450 12525426 97340
62   71 P   1 61 1030 34440 438620 3506652 9862800 2932124 600
62   71 S   1 61 1030 34590 445681 3817053 16047212 13082666 125338
62   72 C   1 62 1091 36270 473060 4134284 16460504 12400620 47740
62   72 P   1 61 1030 34440 438620 3559608 9892752 2849804 100
62   72 S   1 61 1030 34590 445681 3807325 16160702 12952726 71516
62   73 C   1 62 1091 37200 511965 4905316 20595346 7501380 1271
62   73 P   1 61 1015 34545 454390 3940718 10903174 1442512
62   73 S   1 61 1030 35420 480516 4562232 19916502 8553640 4222
62   74 C   1 62 1091 37020 527961 5101980 21417156 6467561
62   74 P   1 61 1030 35640 470606 4220894 11152917 887187
62   74 S   1 61 1030 35990 495071 4739690 20714735 7566015 231
62   75 C   1 62 1091 37200 511965 4946391 21719406 6337516
62   75 P   1 61 1015 34545 454390 4002683 11347984 935737
62   75 S   1 61 1030 35420 480516 4596782 20947592 7492124 106
62   76 C   1 62 1091 36270 473060 4134284 16352624 12509120 47120
62   76 P   1 61 1030 34440 438620 3540640 9810592 2950944 80
62   76 S   1 61 1030 34590 445681 3807325 16069312 13044516 71116
62   77 C   1 62 1091 36270 473060 4134284 16512584 12354120 42160
62   77 P   1 61 1030 34440 438620 3540640 9901152 2860424 40
62   77 S   1 61 1030 34590 445681 3807325 16216472 12905032 63440
62   78 C   1 62 1091 36270 473060 4079228 16370480 12504160 89280
62   78 P   1 61 1030 34440 438620 3513348 9855492 2932024 600
62   78 S   1 61 1030 34590 445681 3834909 16045288 13069560 122512
62   79 C   1 62 1091 37200 512337 4902805 20460620 7639175 341
62   79 P   1 61 1030 35370 472997 4134621 10895624 1236712
62   79 S   1 61 1030 35430 481237 4566291 19796677 9670134 2771
62   80 C   1 62 1091 36270 473060 4134284 16467944 12393180 47740
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Table 2 (continued)

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 n    #  T  Coset weights
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62   80 P  1 61 1830 34440 438620 3560148 9890432 2851444 240
62   80 S  1 61 1830 34590 445681 3887325 16166092 12947965 70887
62   81 C  1 62 1891 37020 529945 5204156 25422046 28299963 7600549 12431
62   81 P  1 61 1830 35990 493955 4710201 20711845 7588118 12431
62   81 S  1 61 1830 35990 497455 4850786 24413227 20651512 8641919 16083
62   82 C  1 62 1891 37200 512337 4982413 24584240 28527533 8455963 7224
62   82 P  1 61 1830 .5370 476967 4505446 20078794 8448739 7224
62   82 S  1 61 1830 35430 481237 4637223 23485737 20868467 9585627 13251
62   83 C  1 62 1891 37020 529945 5204156 25489874 28311371 7532721 1023
62   83 P  1 61 1830 35990 493955 4710201 20779673 7531698 1023
62   83 S  1 61 1830 35990 497455 4850786 24457860 20664771 8597286 2824
62   84 C  1 62 1891 37020 539307 5425993 26654637 28090495 6358596 62
62   84 P  1 61 1830 35990 503317 4922676 21731961 6358534 62
62   84 S  1 61 1830 35990 505517 5039028 25523108 20479219 7523976 134
62   85 C  1 62 1891 37020 529945 5204156 25422046 28299963 7600549 12431
62   85 P  1 61 1830 35990 493955 4710201 20711845 7588118 12431
62   85 S  1 61 1830 35990 497455 4850786 24413227 20651552 8641919 16043
62   86 C  1 62 1891 36270 473060 4134284 18020052 28037874 15058436 545910 992
           32
62   86 P  1 61 1830 34440 438620 3695664 14324388 14518406 544950 960 32
62   86 S  1 61 1830 34590 445681 3887325 17594444 29028254 15511448 604170
           1028 32
62   87 C  1 62 1891 36270 473060 4134284 18020052 28843330 15058436 540454 992
           32
62   87 P  1 61 1830 34440 438620 3695664 14324388 14518942 539494 960 32
62   87 S  1 61 1830 34590 445681 3887325 17594444 29033150 15511448 599274
           1028 32
62   88 C  1 62 1891 36270 473060 4134284 :8018192 28840230 15060296 543554 992
           32
62   88 P  1 61 1830 34440 438620 3695664 14322528 14517702 542594 960 32
62   88 S  1 61 1830 34590 445681 3887325 17592744 29030810 15513140 601614
           1028 32
62   89 C  1 62 1891 37200 512337 4976988 24574630 28533268 8465573 6914
62   89 P  1 61 1830 35370 476967 4500021 20074609 8458659 6914
62   89 S  1 61 1830 35430 481237 4633023 23480512 20873753 9590852 12165
62   90 C  1 62 1891 36270 473060 4134284 18088252 28878856 14990236 504928 992
           32
62   90 P  1 61 1830 34440 438620 3695664 14392568 14486268 503968 960 32
62   90 S  1 61 1830 34590 445681 3887325 17645404 29070646 15460524 561778 992
           32
62   91 C  1 62 1891 36270 473060 4053932 17622880 28751136 15455608 713000 992
           32
62   91 P  1 61 1830 34440 438620 3615312 14007568 14743568 712040 960 32
62   91 S  1 61 1830 34590 445681 3017053 17190032 28917556 15915896 785140 992
           32
62   92 C  1 62 1891 36270 473060 4134284 18029352 28823800 15049136 559984 992
           32
62   92 P  1 61 1830 34440 438620 3695664 14333688 14490112 559024 960 32
62   92 S  1 61 1830 34590 445681 3887325 17585844 29005750 15520084 626674 992
           32
62   93 C  1 62 1891 37020 539307 5384918 25502212 28130361 7511021 1271
62   93 P  1 61 1830 35990 503317 4881601 20620611 7509750 1271
62   93 S  1 61 1830 35990 505517 5004478 24473073 20509681 8574011 4222
62   94 C  1 62 1891 37020 534161 5320156 26078060 28188394 6940311
62   94 P  1 61 1830 35990 498171 4829985 21248003 6940311
62   94 S  1 61 1830 35990 500771 4946224 24947044 20571796 8104786 361
62   95 C  1 62 1891 37020 539307 5425993 26649677 20090557 6363556
62   95 P  1 61 1830 35990 503317 4922676 21727001 6363556
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Table 2 (continued)

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n    #   T  Coset weights
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62   95 S  : 61 1830 35990 505517 5039028 25518693 28479247 7528391 106
62   96 C  1 62 1891 36270 473060 4134284 18092592 28903160 14985896 480624 992
                 32
62   96 P  1 61 1830 34440 438620 3695664 14396928 14506232 479664 960 32
62   96 S  1 61 1830 34590 445681 3887325 17648504 29092340 15457424 540084 992
                 32
62   97 C  1 62 1891 36270 473060 4134284 18274252 28975080 14804236 408704 992
                 32
62   97 P  1 61 1830 34440 438620 3695664 14578588 14396492 407744 960 32
62   97 S  1 61 1830 34590 445681 3887325 17813864 29170810 15292064 461614 992
                 32
62   98 C  1 62 1891 36270 473060 4079228 17796480 28763040 15282008 675800 992
                 32
62   98 P  1 61 1830 34440 438620 3640608 14155872 14607168 674840 960 32
62   98 S  1 61 1830 34590 445681 3834909 17339768 28934320 15766160 750520 992
                 32
62   99 C  1 62 1891 37200 512337 4938517 23698880 28562098 9341323 16555
62   99 P  1 61 1830 35370 476967 4461550 19237330 9324768 16555
62   99 S  1 61 1830 35430 481237 4600188 22678567 28887383 10392797 31370
62  100 C  1 62 1891 36270 473060 4134284 18028112 28826776 15050345 557008
                 1023 32
62  100 P  1 61 1830 34440 438620 3695664 14332448 14494328 556017 991 32
62  100 S  1 61 1830 34590 445681 3887325 17584344 29008926 15521553 623490
                 1023 32
62  101 C  1 62 1891 37820 529945 5322762 32759033 60572390 33803888 1175830
                 14106
62  101 P  1 61 1830 35990 493955 4828807 27930226 32642164 1161724 14106
62  101 S  1 61 1830 35990 497455 4951167 30894618 60625448 35698831 1496198
                 16129
62  102 C  1 62 1891 37200 512337 5083194 31544732 61208074 35049778 780334 125
62  102 P  1 61 1830 35370 476967 4606227 26938505 34269569 780209 125
62  102 S  1 61 1830 35430 481237 4723329 29555258 61120975 37070382 1229069
                 156
62  103 C  1 62 1891 37820 529945 5322762 32801906 61162320 33775089 585900 32
62  103 P  1 61 1830 35990 493955 4828807 27973099 33189221 585060 32
62  103 S  1 61 1830 35990 497455 4951167 30921711 61217850 35687803 903796 64
62  104 C  1 62 1891 37820 539307 5612986 36017691 61350736 30549942 107260 32
62  104 P  1 61 1830 35990 503317 5109669 30908022 30442714 107220 32
62  104 S  1 61 1830 35990 505517 5196390 33659940 61637707 32941512 238636 64
62  105 C  1 62 1891 37820 529945 5322762 32759033 60572390 33803888 1175830
                 14106
62  105 P  1 61 1830 35990 493955 4828807 27930226 32642164 1161724 14106
62  105 S  1 61 1830 35990 497455 4951167 30894618 60625448 35698831 1496198
                 16129
62  106 C  1 62 1891 37820 522691 5220214 30658009 59233622 35919111 2617082
                 7161 64
62  106 P  1 61 1830 35990 486701 4733513 25924496 33309126 2609985 7097 64
62  106 S  1 61 1830 35990 491211 4851547 29060334 59281004 37547815 2940202
                 7673 64
62  107 C  1 62 1891 37820 522691 5220214 30658009 59239574 35919111 2611130
                 7161 64
62  107 P  1 61 1830 35990 486701 4733513 25924496 33315078 2604033 7097 64
62  107 S  1 61 1830 35990 491211 4851543 29060334 59285916 37547815 2935290
                 7673 64
62  108 C  1 62 1891 37820 522691 5220214 30656149 59222834 35923637 2627870
                 4495 64
62  108 P  1 61 1830 35990 486701 4733513 25922636 33300198 2623439 4431 64
62  108 S  1 61 1830 35990 491211 4851543 29058714 59270556 37552361 2950650
                 4747 64
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Table 2 (continued)

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  a   #  T   Coest weights
 --  --- -   --------------------------------
 62  109 C   1 62 1891 37200 512337 5083194 31617582 61240996 34976959 747412 94
 62  109 P   1 61 1830 35370 476967 4606227 27011355 34229641 747310 94
 62  109 S   1 61 1830 35430 481237 4723329 29612320 61147446 37013343 1202590
               125
 62  110 C   1 62 1891 37820 522691 5220214 31255689 59906508 35326546 1944196
               2046 64
 62  110 P   1 61 1830 35990 486701 4733513 26522176 33384332 1942214 1982 64
 62  110 S   1 61 1830 35990 491211 4851543 29477614 59875340 37136162 2345066
               2046 64
 62  111 C   1 62 1891 37820 522691 5139862 30800857 59847856 35781440 2083200
               1984 64
 62  111 P   1 61 1830 35990 486701 4653161 26147696 33700160 2081200 1920 64
 62  111 S   1 61 1830 35990 491211 4781271 28972942 59751310 37640896 2540160
               1984 64
 62  112 C   1 62 1891 37820 522691 5220214 31509889 60213656 35072408 1637048
               1984 64
 62  112 P   1 61 1830 35990 486701 4733513 26776376 33437280 1635128 1920 64
 62  112 S   1 61 1830 35990 491211 4851543 29677054 60196918 36935904 2024208
               1984 64
 62  113 C   1 62 1891 37820 539307 5612986 35601671 61240190 30965962 217806 32
 62  113 P   1 61 1830 35990 503317 5109669 30492002 30748188 217774 32
 62  113 S   1 61 1830 35990 505517 5196390 33312155 61462490 33289297 433933 64
 62  114 C   1 62 1891 37820 534161 5453458 34312970 61304238 32259009 313286 32
 62  114 P   1 61 1830 35990 498171 4955287 29357683 31946555 313254 32
 62  114 S   1 61 1830 35990 500771 5051825 32073380 61435905 34532810 585003 64
 62  115 C   1 62 1891 37820 539307 5612986 36019086 61349310 30540547 108686 32
 62  115 P   1 61 1830 35990 503317 5109669 30909417 30439093 108654 32
 62  115 S   1 61 1830 35990 505517 5196390 33660640 61630465 32940012 245958 64
 62  116 C   1 62 1891 37820 522691 5220214 31271809 60088416 35310408 1762288
               1984 64
 62  116 P   1 61 1830 35990 486701 4733513 26538296 33550120 1760368 1920 64
 62  116 S   1 61 1830 35990 491211 4851543 29489254 60040318 37124584 2100888
               1984 64
 62  117 C   1 62 1891 37820 522691 5220214 31813069 60495756 34769228 1354940
               1984 64
 62  117 P   1 61 1830 35990 486701 4733513 27079556 33416200 1353028 1920 64
 62  117 S   1 61 1830 35990 491211 4851543 29911114 60482650 36702724 1730548
               1984 64
 62  118 C   1 62 1891 37820 522691 5139862 30927585 60004096 35654712 1926960
               1984 64
 62  118 P   1 61 1830 35990 486701 4653161 26274424 33729672 1925040 1920 64
 62  118 S   1 61 1830 35990 491211 4781271 29082762 59917458 37531076 2374020
               1984 64
 62  119 C   1 62 1891 37200 512337 5083194 31392057 61045324 35202484 943084 94
 62  119 P   1 61 1830 35370 476967 4606227 26785830 34259494 942990 94
 62  119 S   1 61 1830 35430 481237 4723329 29421228 60912155 37204443 1437889
               125
 62  120 C   1 62 1891 37820 522691 5220214 31518569 60223328 35063666 1627376
               2046 64
 62  120 P   1 61 1830 35990 486701 4733513 26785056 33438272 1625394 1982 64
 62  120 S   1 61 1830 35990 491211 4851543 29684014 60202285 36929762 2018921
               2046 64
 62  121 C   1 62 931 8990 62930 339822 1472562 5259150 15378790 33794650
               44943614 27571586 5249974 134602 62 2
 62  121 P   1 61 870 8120 54810 285012 1187550 4071600 11307190 22487460
               22456154 5115432 134542 60 2
 62  121 S   1 61 931 8991 62930 339820 1472562 5259150 15378790 33794650
               44943614 27571586 5249974 134602 62 2
```

Table 2 (continued)

```
n    ø    T   Coset weights
--   ----  -   ------------------------------
63    1   C   1 63
63    1   P   1 31
63    1   S   1 62  1
63    2   C   1 63 63  1
63    2   P   1 62  1
63    2   S   1 62 63  2
63    3   C   1 63 189  3
63    3   P   1 53 74
63    3   S   1 62 190  3
63    4   C   1 63 252 193  3
63    4   P   1 62 190  3
63    4   S   1 62 252 194  3
63    5   C   1 63 441  7
63    5   P   1 59 196
63    5   S   1 62 442  7
63    6   C   1 63 441  7
63    6   P   1 62 193
63    6   S   1 62 441  8
63    7   C   1 63 232 216
63    7   P   1 56 127  72
63    7   S   1 62 233 216
63    8   C   1 63 504 449  7
63    8   P   1 62 442  7
63    8   S   1 62 504 450  7
63    9   C   1 63 441 448  70  1
63    9   P   1 62 379  69  1
63    9   S   1 62 441 449  70  1
63   10   C   1 63 295 449 216
63   10   P   1 62 233 216
63   10   S   1 62 295 450 216
63   11   C   1 63 1323 661
63   11   P   1 62 806 155
63   11   S   1 62 1297 688
63   12   C   1 63 1449 532  3
63   12   P   1 62 895  66
63   12   S   1 62 1417 565  3
63   13   C   1 63 295 681 1008
63   13   P   1 62 233 448 280
63   13   S   1 62 295 682 1008
63   14   C   1 63 1323 1984 724  1
63   14   P   1 62 1261 723  1
63   14   S   1 62 1297 1985 750  1
63   15   C   1 63 1449 1981 598  4
63   15   P   1 62 1387 594  4
63   15   S   1 62 1417 1982 630  4
63   16   C   1 63 295 681 1008 1008 672 288  72  8
63   16   P   1 62 233 448 560 448 224  64  8
63   16   S   1 62 295 682 1008 1008 672 288  72  8
63   17   C   1 63 1953 2079
63   17   P   1 62 1441 544
63   17   S   1 62 1891 2141  1
63   18   C   1 63 945 3087
63   18   P   1 61 810 1176
63   18   S   1 62 946 3087
63   19   C   1 63 1764 2268
63   19   P   1 61 1230 756
63   19   S   1 62 1711 2322
63   20   C   1 63 1008 2618 406
```

Table 2 (continued)

n	#	T	Coset weights
63	20	P	1 62 946 1036 3
63	20	S	1 62 1002 2619 412
63	21	C	1 63 1449 2583
63	21	P	1 58 1109 880
63	21	S	1 62 1408 2625
63	22	C	1 63 1764 2268
63	22	P	1 59 1330 658
63	22	S	1 62 1709 2324
63	23	C	1 63 1890 2142
63	23	P	1 61 1410 576
63	23	S	1 62 1831 220?
63	24	C	1 63 1353 2610 69
63	24	P	1 56 1050 941
63	24	S	1 62 1312 2644 77
63	25	C	1 63 813 2625 594
63	25	P	1 62 751 1234
63	25	S	1 62 813 2626 594
63	26	C	1 63 1953 4032 2142 1
63	26	P	1 62 1891 2141 1
63	26	S	1 62 1891 4032 2204 2
63	27	C	1 63 1008 4033 3087
63	27	P	1 62 946 3087
63	27	S	1 62 1006 4034 3089
63	28	C	1 63 1827 4033 2268
63	28	P	1 62 1765 2268
63	28	S	1 62 1771 4034 2324
63	29	C	1 63 1008 2618 2639 1351 448 64
63	29	P	1 62 946 1672 967 384 64
63	29	S	1 62 1002 2619 2645 1351 448 64
63	30	C	1 63 1512 4033 2583
63	30	P	1 62 1450 2583
63	30	S	1 62 1470 4034 2625
63	31	C	1 62 1827 4033 2268
63	31	P	1 62 1765 2268
63	31	S	1 62 1771 4034 2324
63	32	C	1 63 1953 4033 2142
63	32	P	1 62 1891 2142
63	32	S	1 62 1891 4033 2204 1
63	33	C	1 63 1416 3964 2679 69
63	33	P	1 62 1354 2610 69
63	33	S	1 62 1374 3957 2721 77
63	34	C	1 63 813 2625 2834 1344 448 64
63	34	P	1 62 751 1874 960 384 64
63	34	S	1 62 813 2626 2834 1344 448 64
63	35	C	1 63 1953 13587 777 3
63	35	P	1 62 1711 6391 27
63	35	S	1 62 1891 13502 925 3
63	36	C	1 63 1953 14367
63	36	P	1 62 1801 6328
63	36	S	1 62 1891 14240 190
63	37	C	1 63 1827 5889 8604
63	37	P	1 62 1765 4124 2240
63	37	S	1 62 1771 5890 8660
63	38	C	1 63 1449 9562 5302 7
63	38	P	1 62 1387 6217 525
63	38	S	1 62 1417 9496 5397 11
63	39	C	1 63 1512 10713 4095
63	39	P	1 62 1450 6085 594

Table 2 (continued)

```
 n    #  T  Coset weights
--  ---- -  ------------------------------
63   39 S  1 62 1470 10574 4277
63   40 C  1 63 1827 13653 840
63   40 F  1 62 1720 6363 40
63   40 S  1 62 1771 13535 1015
63   41 C  1 63 1953 13359 1008
63   41 P  1 62 1846 6251 32
63   41 S  1 62 1891 13293 1137
63   42 C  1 63 1416 5289 8871 744
63   42 P  1 62 1354 3935 2774 66
63   42 S  1 62 1374 5240 8897 810
63   43 C  1 63 813 3843 8477 2835 343 9
63   43 P  1 62 751 3092 3635 614 37
63   43 S  1 62 813 3844 8477 2835 343 9
63   44 C  1 63 1953 15540 14427 781 3
63   44 P  1 62 1891 13649 778 3
63   44 S  1 62 1891 15393 14489 929 3
63   45 C  1 63 1953 16131 14430 190
63   45 P  1 62 1891 14240 190
63   45 S  1 62 1891 15948 14492 374
63   46 C  1 63 1827 5889 8604 8064 5376 2304 576 64
63   46 P  1 62 1765 4124 4480 3584 1792 512 64
63   46 S  1 62 1771 5890 8660 8064 5376 2304 576 64
63   47 C  1 63 1449 9562 13135 6503 1799 256
63   47 P  1 62 1307 8175 4960 1543 256
63   47 S  1 62 1417 9496 13167 6570 1799 256
63   48 C  1 63 1512 10713 14805 5607 66 1
63   48 P  1 62 1450 9263 5542 65 1
63   48 S  1 62 1470 10574 14845 5747 68 1
63   49 C  1 63 1827 15039 14553 1282 3
63   49 P  1 62 1765 13274 1279 3
63   49 S  1 62 1771 14823 14609 1499 3
63   50 C  1 63 1953 14115 14427 2206 3
63   50 P  1 62 1891 12224 2203 3
63   50 S  1 62 1891 14025 14489 2297 3
63   51 C  1 63 1416 5289 8871 8664 5520 2304 576 64
63   51 P  1 62 1354 3935 4936 3728 1792 512 64
63   51 S  1 62 1374 5240 8897 8714 5536 2304 576 64
63   52 C  1 63 813 3843 8477 9891 6517 2523 576 64
63   52 P  1 62 751 3092 5385 4506 2011 512 64
63   52 S  1 62 813 3844 8477 9891 6517 2523 576 64
63   53 C  1 63 1953 12031 17640 280
63   53 P  1 62 1801 9080 5440
63   53 S  1 62 1891 12830 17704 280
63   54 C  1 63 1953 17283 13461 7
63   54 P  1 62 1756 11060 3505
63   54 S  1 62 1891 16931 13876 7
63   55 C  1 63 1953 26719 3969 63
63   55 P  1 62 1861 14157 303
63   55 S  1 62 1891 26025 4726 63
63   56 C  1 63 1575 17521 13608
63   56 P  1 62 1513 12106 2702
63   56 S  1 62 1537 17099 14069
63   57 C  1 63 1827 23641 7236
63   57 P  1 62 1687 13812 822
63   57 S  1 62 1771 22944 7990
63   58 C  1 63 1953 20167 10584
63   58 P  1 62 1786 12442 2093
63   58 S  1 62 1891 19737 11077
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Table 2 (continued)

n	#	T	Coset weights
63	59	C	1 63 1764 23128 7812
63	59	P	1 59 1540 13468 1316
63	59	S	1 62 1709 22344 8652
63	60	C	1 63 1764 17346 13587 7
63	60	P	1 59 1510 10811 4003
63	60	S	1 62 1709 16915 14074 7
63	61	C	1 63 1953 23254 7497
63	61	P	1 62 1891 13511 919
63	61	S	1 62 1891 22675 8138 1
63	62	C	1 63 1953 22561 8190
63	62	P	1 62 1876 13435 1010
63	62	S	1 62 1891 21987 8827
63	63	C	1 63 1953 24031 6720
63	63	P	1 62 1891 13926 504
63	63	S	1 62 1891 23427 7386 1
63	64	C	1 63 1584 18949 12144 27
63	64	P	1 62 1522 12491 2308
63	64	S	1 62 1542 18389 12739 35
63	65	C	1 63 1353 20521 13530 6300 1000
63	65	P	1 56 1050 6916 6441 1820 100
63	65	S	1 62 1312 10102 13571 6620 1100
63	66	C	1 63 1953 14721 30534 17984 280
63	66	P	1 62 12830 17704 280
63	66	S	1 62 1891 14660 30596 18046 280
63	67	C	1 63 1953 19236 30807 13469 7
63	67	P	1 62 1891 17345 13462 7
63	67	S	1 62 1891 18804 30869 13902 7
63	68	C	1 63 1953 27916 30751 4789 63
63	68	P	1 62 1891 26025 4726 63
63	68	S	1 62 1891 27130 30813 5576 63
63	69	C	1 63 1575 17521 31129 15183 63 1
63	69	P	1 62 1513 16008 15121 62 1
63	69	S	1 62 1537 17099 31161 15606 69 1
63	70	C	1 63 1827 25405 30933 7300 7
63	70	P	1 62 1765 23640 7293 7
63	70	S	1 62 1771 24630 30989 8076 7
63	71	C	1 63 1953 21742 30814 10963
63	71	P	1 62 1891 19851 10963
63	71	S	1 62 1891 21259 30876 11447
63	72	C	1 63 1827 24893 30940 7812
63	72	P	1 62 1765 23128 7812
63	72	S	1 62 1771 24054 30996 8652
63	73	C	1 63 1827 19111 30933 13594 7
63	73	P	1 62 1765 17346 13587 7
63	73	S	1 62 1771 18625 30989 14081 7
63	74	C	1 63 1953 23254 30744 9450 70 1
63	74	P	1 62 1891 21363 9381 69 1
63	74	S	1 62 1891 22675 30806 10030 70 1
63	75	C	1 63 1953 23191 30814 9514
63	75	P	1 62 1891 21300 9514
63	75	S	1 62 1891 22567 30876 10139
63	76	C	1 63 1953 24031 30751 8673 63 1
63	76	P	1 62 1891 22140 8611 62 1
63	76	S	1 62 1891 23427 30813 9278 63 1
63	77	C	1 63 1584 18949 30694 13746 489 10
63	77	P	1 62 1522 17427 13267 479 10
63	77	S	1 62 1542 18389 30734 14307 491 10
63	78	C	1 63 1416 11875 24051 19830 7300 1000

n	#	T	Coset weights

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n    #   T  Coset weights
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63  117 C  1 63 1953 36350 186604 37156 9
63  117 P  1 62 1891 33563 93797 1758
63  117 S  1 62 1891 34786 184448 40947 9
63  118 C  1 63 1764 28044 180873 50931 468
63  118 P  1 61 1620 23988 95811 9589 2
63  118 S  1 62 1711 26857 176810 56199 504
63  119 C  1 63 1827 31719 200844 27690
63  119 P  1 62 1765 27956 99551 1737
63  119 S  1 62 1771 30352 197373 32585
63  120 C  1 63 1890 32760 184464 42939 27
63  120 P  1 61 1770 28146 95412 5682
63  120 S  1 62 1831 31410 181889 46924 27
63  121 C  1 63 1953 35294 181083 43750
63  121 P  1 62 1891 32050 94197 2871
63  121 S  1 62 1891 33021 179309 47060
63  122 C  1 63 1953 32536 165123 62398 70
63  122 P  1 62 1891 29355 92713 7050
63  122 S  1 62 1891 31257 163214 65640 79
63  123 C  1 63 1953 35728 179361 45024 14
63  123 P  1 62 1891 32312 94033 2773
63  123 S  1 62 1891 34216 177680 48280 14
63  124 C  1 63 1764 28012 196245 35259
63  124 P  1 59 1540 23044 101864 4564
63  124 S  1 62 1709 27496 190673 42203
63  125 C  1 63 1449 14553 60858 111132 74088
63  125 P  1 58 1212 10794 37063 54684 26460
63  125 S  1 62 1408 14070 59619 111132 75852
63  126 C  1 63 1584 18949 95934 116004 27817 1792
63  126 P  1 62 1522 16523 63761 43871 5268 64
63  126 S  1 62 1542 18389 93850 117184 29215 1901
63  127 C  1 63 1584 18423 108597 131166 2310
63  127 P  1 62 1522 16861 73516 39070 40
63  127 S  1 62 1542 17992 106995 133152 2400
63  128 C  1 63 1953 39711 200235 222369 59955 1
63  128 P  1 62 1891 37020 162415 59954 1
63  128 S  1 62 1891 37020 199323 224254 60929 8
63  129 C  1 63 1953 37191 234192 224890 25998
63  129 P  1 62 1891 35300 198892 25998
63  129 S  1 62 1891 35540 230400 226542 29852
63  130 C  1 63 1953 31164 177345 226405 82845 4432
63  130 P  1 62 1891 29273 148072 78413 4432
63  130 S  1 62 1891 30014 174298 227633 85954 4435
63  131 C  1 63 1953 37191 229845 224890 30345
63  131 P  1 62 1891 35300 194545 30345
63  131 S  1 62 1891 35460 225575 226622 34677
63  132 C  1 63 1953 35490 217056 226591 43134
63  132 P  1 62 1891 33599 183457 43134
63  132 S  1 62 1891 33992 213041 228090 47211
63  133 C  1 63 1953 33243 197799 228838 62391
63  133 P  1 62 1891 31352 166447 62391
63  133 S  1 62 1891 31886 193747 230196 66505
63  134 C  1 63 1953 39711 245889 222369 14301 1
63  134 P  1 62 1891 37020 208069 14300 1
63  134 S  1 62 1891 37020 242429 224260 17823 2
63  135 C  1 63 1953 35281 217260 226773 42930 27
63  135 P  1 62 1891 33390 183870 42903 27
63  135 S  1 62 1891 33011 213039 228244 47213 27
63  136 C  1 63 1953 35098 198289 222859 61901 4124
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Table 2 (continued)

n	♦	T	Coset weights

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n    ♦   T  Coset weights
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63  136  P  1 62 1891 33207 165082 57777 4124
63  136  S  1 62 1891 33646 194819 224312 65433 4124
63  137  C  1 63 1953 35974 225792 226107 34398
63  137  P  1 62 1891 34083 191709 34398
63  137  S  1 62 1891 34435 221582 227647 38670
63  138  C  1 63 1953 35974 220438 226107 31752
63  138  P  1 62 1891 34083 194355 31752
63  138  S  1 62 1891 34435 224299 227647 35953
63  139  C  1 63 1953 37801 242424 224280 17766
63  139  P  1 62 1891 35910 206514 17766
63  139  S  1 62 1891 36091 238290 225991 21962
63  140  C  1 63 1953 36358 205441 221627 54749 4096
63  140  P  1 62 1891 34467 170974 50653 4096
63  140  S  1 62 1891 34786 201636 223200 58616 4096
63  141  C  1 63 1827 29809 208917 231804 51399 468
63  141  P  1 62 1765 28044 180873 50931 468
63  141  S  1 62 1771 28569 203669 233009 56703 504
63  142  C  1 63 1827 31719 229824 230361 30492 1
63  142  P  1 62 1765 29954 199870 30491 1
63  142  S  1 62 1771 30352 224544 231729 35828 1
63  143  C  1 63 1953 34651 217224 227403 42966 27
63  143  P  1 62 1891 32760 184464 42939 27
63  143  S  1 62 1891 33241 213301 228014 46951 27
63  144  C  1 63 1953 35294 202762 222691 57428 4096
63  144  P  1 62 1891 33403 169359 53332 4096
63  144  S  1 62 1891 33821 199517 224165 60735 4096
63  145  C  1 63 1953 32536 181825 225421 78365 4124
63  145  P  1 62 1891 30645 151180 74241 4124
63  145  S  1 62 1891 31257 178977 226698 81275 4127
63  146  C  1 63 1953 35728 202041 222243 58149 4110
63  146  P  1 62 1891 33837 168204 54039 4110
63  146  S  1 62 1891 34216 198911 223756 61341 4110
63  147  C  1 63 1827 30577 225057 231504 35259
63  147  P  1 62 1765 28012 196245 35259
63  147  S  1 62 1771 29206 218169 232876 42203
63  148  C  1 63 1512 16003 75411 171990 185220 74088
63  148  P  1 62 1450 14553 60858 111132 74088
63  148  S  1 62 1470 15479 73689 170751 186984 75852
63  149  C  1 63 1584 18949 103333 205779 154867 37326 2359 27
63  149  P  1 62 1522 17427 85906 119873 34994 2332 27
63  149  S  1 62 1542 18389 101147 204977 156995 38689 2459 27
63  150  C  1 63 1584 18423 109017 231867 151542 11791
63  150  P  1 62 1522 16901 92116 139751 11791
63  150  S  1 62 1542 17992 107415 231759 153186 12331
63  151  C  1 63 1953 39711 408366 592914 5481 87
63  151  P  1 62 1891 36910 301318 183977 129
63  151  S  1 62 1891 37820 392113 609041 7561 87
63  152  C  1 63 1953 37821 374367 615312 19059
63  152  P  1 62 1891 35930 305678 180696 30
63  152  S  1 62 1891 36110 359455 627386 23671
63  153  C  1 63 1953 34881 287973 608783 114670 252
63  153  P  1 62 1891 32990 230581 247124 11636 3
63  153  S  1 62 1891 33380 279082 615813 118074 273
63  154  C  .  63 1953 37191 394212 603732 11424
63  154  P  1 62 1891 34267 284374 203416 277
63  154  S  1 62 1891 35460 374732 622018 14412
63  155  C  1 63 1953 39711 448224 557196 1428
63  155  P  1 62 1891 37120 321662 163541 11
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Table 2 (continued)

n	◆	T	Coset weights
63	136	P	1 62 1891 33207 165082 57777 4124
63	136	S	1 62 1891 33646 194819 224312 65433 4124
63	137	C	1 63 1953 35974 225792 226107 34398
63	137	P	1 62 1891 34083 191709 34398
63	137	S	1 62 1891 34435 221582 227647 38670
63	138	C	1 63 1953 35974 228438 226107 31752
63	138	P	1 62 1891 34083 194355 31752
63	138	S	1 62 1891 34435 224299 227647 35953
63	139	C	1 63 1953 37801 242424 224280 17766
63	139	P	1 62 1891 35910 206514 17766
63	139	S	1 62 1891 36091 238290 225991 21962
63	140	C	1 63 1953 36358 205441 221627 54749 4096
63	140	P	1 62 1891 34467 170974 50653 4096
63	140	S	1 62 1891 34786 201636 223200 58616 4096
63	141	C	1 63 1827 29809 208917 231804 51399 468
63	141	P	1 62 1765 28044 180873 50931 468
63	141	S	1 62 1771 28569 203669 233009 56703 504
63	142	C	1 63 1827 31719 229824 230361 30492 1
63	142	P	1 62 1765 29954 199870 30491 1
63	142	S	1 62 1771 30352 224544 231729 35828 1
63	143	C	1 63 1953 34651 217224 227403 42966 27
63	143	P	1 62 1891 32760 184464 42939 27
63	143	S	1 62 1891 33241 213301 228814 46951 27
63	144	C	1 63 1953 35294 202762 222691 57428 4096
63	144	P	1 62 1891 33403 169359 53332 4096
63	144	S	1 62 1891 33021 199517 224165 60735 4096
63	145	C	1 63 1953 32536 181025 225421 78365 4124
63	145	P	1 62 1891 30645 151180 74241 4124
63	145	S	1 62 1891 31257 178977 226698 81275 4127
63	146	C	1 63 1953 35728 202041 222243 58149 4110
63	146	P	1 62 1891 33037 168204 54039 4110
63	146	S	1 62 1891 34216 198911 223756 61341 4110
63	147	C	1 63 1827 30577 225057 231504 35259
63	147	P	1 62 1765 28812 196245 35259
63	147	S	1 62 1771 29206 218169 232876 42203
63	148	C	1 63 1512 16003 75411 171990 185220 74088
63	148	P	1 62 1450 14553 60858 111132 74088
63	148	S	1 62 1470 15479 73689 170751 186984 75852
63	149	C	1 63 1584 18949 103333 205779 154867 37326 2359 27
63	149	P	1 62 1522 17427 85906 119873 34994 2332 27
63	149	S	1 62 1542 18389 101147 204977 156995 38689 2459 27
63	150	C	1 63 1584 18423 109017 231867 151542 11791
63	150	P	1 62 1522 16901 92116 139751 11791
63	150	S	1 62 1542 17992 107415 231759 153186 12331
63	151	C	1 63 1953 39711 408366 592914 5481 87
63	151	P	1 62 1891 36910 301318 183977 129
63	151	S	1 62 1891 37820 392113 609041 7561 87
63	152	C	1 63 1953 37821 374367 615312 19059
63	152	P	1 62 1891 35930 305678 180696 30
63	152	S	1 62 1891 36110 359455 627386 23671
63	153	C	1 63 1953 34881 287973 608783 114670 252
63	153	P	1 62 1891 32990 230581 247124 11636 3
63	153	S	1 62 1891 33380 279082 615813 118074 273
63	154	C	. 63 1953 37191 394212 603732 11424
63	154	P	1 62 1891 34267 284374 203416 277
63	154	S	1 62 1891 35460 374732 622018 14412
63	155	C	1 63 1953 39711 448224 557196 1428
63	155	P	1 62 1891 37120 321662 163541 11

Table 2 (continued)

n	d	T	Coset weights

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n    d   T  Coset weights
--  ----  -  -------------------------------
63  136  P  1  62  1891  33207  165082  57777  4124
63  136  S  1  62  1891  33646  194019  224312  65433  4124
63  137  C  1  63  1953  35974  225792  226107  34398
63  137  P  1  62  1891  34083  191709  34398
63  137  S  1  62  1891  34435  221582  227647  38670
63  138  C  1  63  1953  35974  220438  226107  31752
63  138  P  1  62  1891  34083  194355  31752
63  138  S  1  62  1891  34435  224299  227647  35953
63  139  C  1  63  1953  37001  242424  224280  17766
63  139  P  1  62  1891  35910  206514  17766
63  139  S  1  62  1891  36091  230290  225991  21962
63  140  C  1  63  1953  36358  205441  221627  54749  4096
63  140  P  1  62  1891  34467  170974  50653  4096
63  140  S  1  62  1891  34786  201636  223200  58616  4096
63  141  C  1  63  1827  29809  208917  231804  51399  468
63  141  P  1  62  1765  28044  180873  50931  468
63  141  S  1  62  1771  28569  203669  233009  56703  504
63  142  C  1  63  1827  31719  229824  230361  30492  1
63  142  P  1  62  1765  29954  199870  30491  1
63  142  S  1  62  1771  30352  224544  231729  35028  1
63  143  C  1  63  1953  34651  217224  227403  42966  27
63  143  P  1  62  1891  32760  184464  42939  27
63  143  S  1  62  1891  33241  213301  228814  46951  27
63  144  C  1  63  1953  35294  202762  226691  57428  4096
63  144  P  1  62  1891  33403  169359  53332  4096
63  144  S  1  62  1891  33821  199517  224165  60735  4096
63  145  C  1  63  1953  32536  181825  225421  78365  4124
63  145  P  1  62  1891  30645  151180  74241  4124
63  145  S  1  62  1891  31257  178977  226698  81275  4127
63  146  C  1  63  1953  35728  202041  222243  58149  4110
63  146  P  1  62  1891  33837  168204  54039  4110
63  146  S  1  62  1891  34216  198911  223756  61341  4110
63  147  C  1  63  1827  30577  225057  231504  35259
63  147  P  1  62  1765  28012  196245  35259
63  147  S  1  62  1771  29206  218169  232876  42203
63  148  C  1  63  1512  16003  75411  171990  185220  74088
63  148  P  1  62  1450  14553  60858  111132  74088
63  148  S  1  62  1470  15479  73689  170751  186984  75852
63  149  C  1  63  1584  18949  103333  205779  154867  37326  2359  27
63  149  P  1  62  1522  17427  85906  119873  34994  2332  27
63  149  S  1  62  1542  18389  101147  204977  156995  38689  2459  27
63  150  C  1  63  1584  18423  109017  231867  151542  11791
63  150  P  1  62  1522  16901  92116  139751  11791
63  150  S  1  62  1542  17992  107415  231759  153186  12331
63  151  C  1  63  1953  39711  408366  592914  5481  87
63  151  P  1  62  1891  36910  301318  183977  129
63  151  S  1  62  1891  37820  392113  609041  7561  87
63  152  C  1  63  1953  37821  374367  615312  19059
63  152  P  1  62  1891  35930  305678  180696  30
63  152  S  1  62  1891  36110  359455  627386  23671
63  153  C  1  63  1953  34881  287973  608783  114670  252
63  153  P  1  62  1891  32990  230581  247124  11636  3
63  153  S  1  62  1891  33380  279082  615813  118074  273
63  154  C     63  1953  37191  394212  603732  11424
63  154  P  1  62  1891  34267  284374  203416  277
63  154  S  1  62  1891  35460  374732  622018  14412
63  155  C  1  63  1953  39711  448224  557196  1428
63  155  P  1  62  1891  37120  321662  163541  11
```

Table 2 (continued)

a	e	T	Coset weights

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 a    e  T  Coset weights
--  ----  -  ------------------------------
63  155 S  1 62 1891 37820 427402 579525 1875
63  156 C  1 63 1953 31857 186795 355047 332892 139968
63  156 P  1 62 1046 26413 122281 185261 141768 46656
63  156 S  1 62 1891 30598 182647 359983 333426 139968
63  157 C  1 63 1953 39711 450891 554589 1365 3
63  157 P  1 62 1891 36700 322632 162993 9
63  157 S  1 62 1891 37820 429725 577388 1686 3
63  158 C  1 63 1953 37236 354357 620073 34866 27
63  158 P  1 62 1891 35345 288216 198491 282
63  158 S  1 62 1891 35580 340585 629836 40594 27
63  159 C  1 63 1953 39711 415317 578746 12778 7
63  159 P  1 62 1891 37400 315403 169440 91
63  159 S  1 62 1891 37820 397753 596185 14857 7
63  160 C  1 63 1953 37299 390537 614313 4410
63  160 P  1 62 1891 34872 290583 196837 42
63  160 S  1 62 1891 35634 374274 630680 6034
63  161 C  1 63 1953 37299 404586 602532 2142
63  161 P  1 62 1891 35140 299683 187508 3
63  161 S  1 62 1891 35634 386569 621342 3077
63  162 C  1 63 1953 39126 469665 537768
63  162 P  1 62 1891 36745 336726 148863
63  162 S  1 62 1891 37290 446186 563062 84
63  163 C  1 63 1953 39711 350278 615300 40694 576
63  163 P  1 62 1891 37820 290813 191249 2452
63  163 S  1 62 1891 37820 337790 625299 45130 583
63  164 C  1 63 1827 31134 336807 564498 112104 2142
63  164 P  1 62 1765 29369 267995 210514 6582
63  164 S  1 62 1771 29760 310375 577675 118680 2244
63  165 C  1 63 1827 32349 391230 559230 62868 1008
63  165 P  1 62 1765 30584 311156 179096 1624
63  165 S  1 62 1771 30922 369326 579474 66012 1008
63  166 C  1 63 1953 37236 350091 622530 36702
63  166 P  1 62 1891 35345 286671 199905 213
63  166 S  1 62 1891 35580 336925 633435 40682
63  167 C  1 63 1953 37212 391258 609294 8795
63  167 P  1 62 1891 35181 302233 184871 49
63  167 S  1 62 1891 35558 374588 625326 11150
63  168 C  1 63 1953 34801 288715 612514 110421 28
63  168 P  1 62 1891 32990 232772 245648 10924
63  168 S  1 62 1891 33380 279965 619509 113737 31
63  169 C  1 63 1953 37821 403074 599340 6324
63  169 P  1 62 1891 35534 311143 175647 10
63  169 S  1 62 1891 36110 386145 616662 7705
63  170 C  1 63 1827 31902 329259 677880 7644
63  170 P  1 62 1765 30067 264722 227560 111
63  170 S  1 62 1771 30489 313134 691697 11422
63  171 C  1 63 1512 17328 100674 293958 412776 222264
63  171 P  1 62 1450 15878 80777 187980 185220 52920
63  171 S  1 62 1470 16762 97984 290117 414624 227556
63  172 C  1 63 1584 20664 148000 461160 352084 62454 2566
63  172 P  1 62 1522 19142 121667 268032 106268 7552 42
63  172 S  1 62 1542 20050 144190 455773 358294 65950 2714
63  173 C  1 63 1584 18423 109017 282618 370146 226392 40092 240
63  173 P  1 62 1522 16901 81896 173292 175494 72032 3076 12
63  173 S  1 62 1542 17992 107415 281174 370768 228290 41084 248
63  174 C  1 63 1953 39711 429933 1001154 616602 7648 87
63  174 P  1 62 1891 37820 392113 609041 7561 87
63  174 S  1 62 1891 37820 411549 1001002 635048 9692 87
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Table 2 (continued)

a	#	T	Coset weights
63	175	C	1 63 1953 37821 374367 354775 635391 151021 36864 4096
63	175	P	1 62 1891 35930 338437 516338 119053 32768 4096
63	175	S	1 62 1891 36110 359455 853679 650365 154629 36864 4096
63	176	C	1 63 1953 34881 287973 797321 744698 215799 13951 512
63	176	P	1 62 1891 32990 254983 542338 202360 13439 512
63	176	S	1 62 1891 33380 279082 797937 753630 216685 13972 512
63	177	C	1 63 1953 37191 418152 998868 628467 12454 3
63	177	P	1 62 1891 35300 382052 616016 12451 3
63	177	S	1 62 1891 35460 396348 997180 650333 15874 3
63	178	C	1 63 1953 39711 467082 1006953 579540 1849
63	178	P	1 62 1891 37820 429262 577691 1849
63	178	S	1 62 1891 37820 444350 1008231 602326 2463
63	179	C	1 63 1953 33243 218442 542389 688212 472881 139968
63	179	P	1 62 1891 31352 187090 355299 332913 139968
63	179	S	1 62 1891 31886 212992 543213 693724 473415 139968
63	180	C	1 63 1953 39711 477477 1007433 569142 1369 3
63	180	P	1 62 1891 37820 439657 567776 1366 3
63	180	S	1 62 1891 37820 453801 1008964 592880 1730 3
63	181	C	1 63 1953 37236 354357 845568 655374 161613 36891 4096
63	181	P	1 62 1891 35345 319012 526556 128818 32795 4096
63	181	S	1 62 1891 35580 340585 843267 669208 165571 36891 4096
63	182	C	1 63 1953 39711 426405 976150 620210 32652 7
63	182	P	1 62 1891 37820 388585 587565 32645 7
63	182	S	1 62 1891 37820 407737 974989 638940 35705 7
63	183	C	1 63 1953 37299 404397 1005543 642225 5671
63	183	P	1 62 1891 35408 368989 636554 5671
63	183	S	1 62 1891 35634 386750 1004969 659934 7911
63	184	C	1 63 1953 37299 412083 1006173 634539 5041
63	184	P	1 62 1891 35408 376675 629498 5041
63	184	S	1 62 1891 35634 393290 1006263 653394 6617
63	185	C	1 63 1953 39126 483210 1009260 563412 127
63	185	P	1 62 1891 37235 445975 563285 127
63	185	S	1 62 1891 37290 458346 1010796 588338 428
63	186	C	1 63 1953 39711 350278 817530 659480 187176 36864 4096
63	186	P	1 62 1891 37820 312458 505072 154408 32768 4096
63	186	S	1 62 1891 37820 337790 815441 672030 191157 36864 4096
63	187	C	1 63 1827 31134 336807 814671 673077 198612 36864 4096
63	187	P	1 62 1765 29369 307438 507233 165844 32768 4096
63	187	S	1 62 1771 29768 318375 810490 691565 204160 36864 4096
63	188	C	1 63 1827 32349 391230 861756 618654 150312 36864 4096
63	188	P	1 62 1765 30584 360646 501110 117544 32768 4096
63	188	S	1 62 1771 30922 369326 862792 640614 150704 36864 4096
63	189	C	1 63 1953 37236 350091 843597 659667 163584 36864 4096
63	189	P	1 62 1891 35345 314746 528851 130816 32768 4096
63	189	S	1 62 1891 35580 336925 842588 672895 166250 36864 4096
63	190	C	1 63 1953 37212 395290 979041 651332 32260
63	190	P	1 62 1891 35321 359969 619072 32260
63	190	S	1 62 1891 35558 378196 976208 668488 36748
63	191	C	1 63 1953 34881 288715 794878 744019 218242 13888 512
63	191	P	1 62 1891 32990 255725 539153 204866 13376 512
63	191	S	1 62 1891 33380 279965 795483 752031 219139 13888 512
63	192	C	1 63 1953 37821 413847 987042 632775 23650
63	192	P	1 62 1891 35930 377917 609125 23650
63	192	S	1 62 1891 36110 395802 985802 650082 26602
63	193	C	1 63 1827 31902 331464 986643 715284 29968
63	193	P	1 62 1765 30137 301327 685316 29968
63	193	S	1 62 1771 30489 315094 979597 731710 30428
63	194	C	1 63 1512 17328 100674 323190 596928 628488 349461 79507

Table 2 (continued)

n	#	T	Coset weights

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n    #    T   Coset weights
--  ----  -   ------------------------------
63  194  P    1 62 1450 15078 84796 238394 350534 269954 79507
63  194  S    1 62 1470 16762 97984 317982 594242 632414 354879 81356
63  195  C    1 63 1584 20664 148000 535752 779392 480270 119599 11827
63  195  P    1 62 1522 19142 128858 406894 372490 107772 11827
63  195  S    1 62 1542 20050 144190 526950 777472 488660 125371 12846
63  196  C    1 63 1584 18423 109017 350622 628662 616329 303180 63139 6132
63  196  P    1 62 1522 16901 92116 258506 370156 246173 57007 6132
63  196  S    1 62 1542 17992 107415 348054 627618 618377 305868 64091 6132
63  197  C    1 63 1953 39711 273420 893172 874944 13888
63  197  P    1 62 1891 36270 225680 562464 222208
63  197  S    1 62 1891 37820 275311 893234 874945 13888
63  198  C    1 63 1953 39711 490791 1483776 80661 196
63  198  P    1 62 1891 37670 406096 600665 2191
63  198  S    1 62 1891 37820 465132 1488807 103243 196
63  199  C    1 63 1953 39081 500682 1501261 54111
63  199  P    1 62 1891 37054 411182 597234 1152
63  199  S    1 62 1891 37250 473829 1510465 73654
63  200  C    1 63 1953 38451 406035 1448994 201655
63  200  P    1 62 1876 34852 314032 672055 25698
63  200  S    1 62 1891 36670 386869 1426876 244779 4
63  201  C    1 63 1953 39102 503244 1494745 58044
63  201  P    1 62 1891 36685 406032 602474 1431
63  201  S    1 62 1891 37268 475829 1505020 77081
63  202  C    1 63 1953 39081 498603 1487311 70140
63  202  P    1 62 1891 36772 405986 601869 1995
63  202  S    1 62 1891 37250 471879 1497183 88886
63  203  C    1 63 1953 34881 318696 1047424 694113 21
63  203  P    1 62 1891 32872 273420 598550 141780
63  203  S    1 62 1891 33380 307670 1051716 702379 53
63  204  C    1 63 1953 39711 517230 1486674 51513 7
63  204  P    1 62 1891 37250 420703 587648 1021
63  204  S    1 62 1891 37820 488773 1501203 67395 7
63  205  C    1 63 1953 36561 417312 1446417 194838 7
63  205  P    1 62 1876 34010 348502 652247 11878
63  205  S    1 62 1891 34880 394989 1436560 228762 7
63  206  C    1 63 1953 37884 443898 1468404 144949
63  206  P    1 62 1861 34339 354355 649332 8626
63  206  S    1 62 1891 36145 421568 1463666 173819
63  207  C    1 63 1953 34881 318696 1043518 698040
63  207  P    1 62 1891 32872 273240 595796 144714
63  207  S    1 62 1891 33380 307670 1047696 706428 24
63  208  C    1 63 1953 39711 507528 1481928 65961 7
63  208  P    1 62 1891 37670 415590 591536 1826
63  208  S    1 62 1891 37820 480295 1490778 86298 7
63  209  C    1 63 1953 38878 489258 1501488 65484 27
63  209  P    1 62 1891 36803 399258 608715 2046
63  209  S    1 62 1891 37066 463068 1507901 87136 27
63  210  C    1 63 1953 38878 485235 1493541 77481
63  210  P    1 62 1891 36987 403877 603217 2541
63  210  S    1 62 1891 37066 459858 1500433 97841
63  211  C    1 63 1953 39508 517356 1497636 40635
63  211  P    1 62 1891 37607 432180 576395 440
63  211  S    1 62 1891 37636 488706 1512567 56289
63  212  C    1 63 1953 39508 513513 1485855 56259
63  212  P    1 62 1891 37199 418749 589132 1542
63  212  S    1 62 1891 37636 485352 1500119 72093
63  213  C    1 63 1953 39508 474390 1477728 103509
63  213  P    1 62 1891 37607 416733 589672 2610
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Table 2 (continued)

n	♦	T	Coset weights
63	213	S	1 62 1891 37636 450457 1476465 130640
63	214	C	1 63 1953 39508 532224 1495998 27405
63	214	P	1 62 1891 37187 429157 579983 295
63	214	S	1 62 1891 37636 501827 1515698 40037
63	215	C	1 63 1953 39508 514962 1493856 46809
63	215	P	1 62 1891 37199 422121 586483 819
63	215	S	1 62 1891 37636 486371 1507641 63550
63	216	C	1 63 1953 39508 519183 1499967 36477
63	216	P	1 62 1891 37607 435315 573214 486
63	216	S	1 62 1891 37636 490634 1515298 51630
63	217	C	1 63 1827 32146 370125 1512630 180360
63	217	P	1 62 1765 30381 309813 693067 12687
63	217	S	1 62 1771 30738 350503 1491924 222153
63	218	C	1 63 1827 31719 329364 1275645 438219 20314
63	218	P	1 62 1765 29174 260272 656751 100159 392
63	218	S	1 62 1771 30352 313371 1248240 481435 21912
63	219	C	1 63 1953 39508 523656 1489887 42084
63	219	P	1 62 1891 37209 423368 585130 915
63	219	S	1 62 1891 37636 494225 1506034 57303
63	220	C	1 63 1953 38878 510867 1510929 34461
63	220	P	1 62 1876 36039 412218 597877 503
63	220	S	1 62 1891 37056 481831 1526214 50097
63	221	C	1 63 1953 39081 512512 1506309 37233
63	221	P	1 62 1891 37190 429029 579929 474
63	221	S	1 62 1891 37250 484320 1519883 53745
63	222	C	1 63 1764 28012 300321 1410759 355362 70
63	222	P	1 59 1540 23324 220129 731927 71596
63	222	S	1 62 1709 27496 282765 1360702 424347 70
63	223	C	1 63 1764 28609 258741 1056510 745416 6048
63	223	P	1 59 1540 22941 182193 576810 264600 432
63	223	S	1 62 1709 27312 245760 1019652 792720 9936
63	224	C	1 63 1953 37387 446859 1520022 90867
63	224	P	1 62 1891 35054 372209 636389 2970
63	224	S	1 62 1891 35715 424435 1518548 116500
63	225	C	1 63 1953 33523 289359 1020789 745416 6048
63	225	P	1 62 1876 29712 221820 549945 245160
63	225	S	1 62 1891 32130 276574 992190 784800 9504
63	226	C	1 63 1584 20664 156330 665532 996043 250761 6174
63	226	P	1 62 1522 19102 134307 458538 395876 39036 132
63	226	S	1 62 1542 20050 152424 655551 1001614 259434 6474
63	227	C	1 63 1953 39711 313131 1168545 1768179 888833 13888
63	227	P	1 62 1891 37820 275311 893234 874945 13888
63	227	S	1 62 1891 37820 310651 1170374 1770721 888896 13888
63	228	C	1 63 1953 39711 495012 1933407 1599990 123971 196
63	228	P	1 62 1891 37820 457192 1476215 123775 196
63	228	S	1 62 1891 37820 468912 1907997 1626152 151273 196
63	229	C	1 63 1953 39081 504777 1978066 1590421 79942
63	229	P	1 62 1891 37190 467587 1510479 79942
63	229	S	1 62 1891 37250 477484 1955758 1617776 104082
63	230	C	1 63 1953 39081 435288 1856353 1659910 201655
63	230	P	1 62 1891 37190 398098 1458255 201655
63	230	S	1 62 1891 37250 414479 1814475 1680777 245365 4
63	231	C	1 63 1953 39102 516369 1991311 1578829 66676
63	231	P	1 62 1891 37211 479158 1512153 66676
63	231	S	1 62 1891 37268 487699 1971344 1607561 88478
63	232	C	1 63 1953 39081 510447 1976317 1584751 81691
63	232	P	1 62 1891 37190 473257 1503060 81691
63	232	S	1 62 1891 37250 482500 1956102 1612760 103738

Table 2 (continued)

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 n    #  T  Coset weights
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63  233  C  1 63 1953 34881 320670 1168510 1698928 893698 75600
63  233  P  1 62 1891 32990 287680 880830 818098 75600
63  233  S  1 62 1891 33380 309532 1168462 1710112 895248 75616
63  234  C  1 63 1953 39711 532413 1995651 1562778 61727 7
63  234  P  1 62 1891 37820 494593 1501058 61720 7
63  234  S  1 62 1891 37820 502441 1978737 1592812 80533 7
63  235  C  1 63 1953 37191 444675 1865053 1650516 194845 7
63  235  P  1 62 1891 35300 409375 1455678 194838 7
63  235  S  1 62 1891 35460 419851 1829771 1675402 231659 7
63  236  C  1 63 1953 39081 479766 1911925 1615432 146083
63  236  P  1 62 1891 37190 442576 1469349 146083
63  236  S  1 62 1891 37250 455281 1884599 1639979 175242
63  237  C  1 63 1953 34881 320670 1164604 1699264 897604 75264
63  237  P  1 62 1891 32990 287680 876924 822340 75264
63  237  S  1 62 1891 33380 309532 1164424 1710464 899286 75264
63  238  C  1 63 1953 39711 512127 1955247 1583064 102131 7
63  238  P  1 62 1891 37820 474307 1480940 102124 7
63  238  S  1 62 1891 37820 484387 1931436 1610866 127834 7
63  239  C  1 63 1953 38078 498897 1974681 1596274 83530 27
63  239  P  1 62 1891 36987 461910 1512771 83503 27
63  239  S  1 62 1891 37066 471789 1951325 1623444 108699 27
63  240  C  1 63 1953 38078 485235 1936683 1609900 121527 63 1
63  240  P  1 62 1891 36987 448248 1488435 121465 62 1
63  240  S  1 62 1891 37066 459858 1911224 1635339 148799 63 1
63  241  C  1 63 1953 39508 517671 1977444 1577527 80137
63  241  P  1 62 1891 37617 480054 1497390 80137
63  241  S  1 62 1891 37636 488986 1955635 1606268 103819 6
63  242  C  1 63 1953 39508 525357 1985319 1569841 72262
63  242  P  1 62 1891 37617 487740 1497579 72262
63  242  S  1 62 1891 37636 495955 1968444 1599305 91010
63  243  C  1 63 1953 39508 474705 1768851 1620115 288730 378
63  243  P  1 62 1891 37617 437088 1331763 288352 378
63  243  S  1 62 1891 37636 450737 1738830 1644011 320624 512
63  244  C  1 63 1953 39508 543879 2024757 1551319 32824
63  244  P  1 62 1891 37617 506262 1518495 32824
63  244  S  1 62 1891 37636 512307 2011454 1582953 48000
63  245  C  1 63 1953 39508 525861 1990926 1569337 66655
63  245  P  1 62 1891 37617 488244 1502682 66655
63  245  S  1 62 1891 37636 496188 1972407 1599072 87047
63  246  C  1 63 1953 39508 519498 1976499 1575700 81082
63  246  P  1 62 1891 37617 481081 1494618 81082
63  246  S  1 62 1891 37636 490914 1955380 1604340 104074 6
63  247  C  1 63 1827 32146 370125 1847223 1725136 217719 63 1
63  247  P  1 62 1765 30381 339744 1507479 217657 62 1
63  247  S  1 62 1771 30738 350503 1799383 1744814 266968 63 1
63  248  C  1 63 1827 31719 345492 1590960 1729518 474410 20314
63  248  P  1 62 1765 29954 315538 1275422 454096 20314
63  248  S  1 62 1771 30352 328089 1545816 1745379 520922 21912
63  249  C  1 63 1953 39508 535374 2007936 1559824 49645
63  249  P  1 62 1891 37617 497757 1510179 49645
63  249  S  1 62 1891 37636 504722 1991995 1590538 67459
63  250  C  1 63 1953 39508 540547 2023120 1554651 34461
63  250  P  1 62 1891 37617 502930 1520190 34461
63  250  S  1 62 1891 37636 509013 2008529 1586247 50925
63  251  C  1 63 1953 39081 512512 1970556 1582623 87451 63 1
63  251  P  1 62 1891 37190 475322 1495234 87389 62 1
63  251  S  1 62 1891 37250 484320 1950012 1610877 109827 63 1
63  252  C  1 63 1827 30577 329133 1711080 1766121 355432 70
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Table 2 (continued)

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n    #   T  Coset weights
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63   252  P  1 62 1765 28812 300321 1410759 355362 70
63   252  S  1 62 1771 29206 310261 1643467 1785049 424417 70
63   253  C  1 63 1827 30374 287350 1315251 1801926 751464 6048
63   253  P  1 62 1765 28609 258741 1056510 745416 6048
63   253  S  1 62 1771 29022 273072 1265412 1812372 802656 9936
63   254  C  1 63 1953 37387 453922 1914717 1641276 144985
63   254  P  1 62 1891 35496 418426 1496291 144985
63   254  S  1 62 1891 35715 431098 1886717 1664162 174658
63   255  C  1 63 1953 34153 313684 1311472 1775466 751464 6048
63   255  P  1 62 1891 32262 281422 1030050 745416 6048
63   255  S  1 62 1891 32710 299766 1269482 1785990 794898 9504
63   256  C  1 63 1584 20664 156750 700434 1544983 1364737 393834 11254
63   256  P  1 62 1522 19142 137608 562826 982157 382580 11254
63   256  S  1 62 1542 20050 152844 689390 1538911 1375618 403854 12032
63   257  C  1 63 1953 39711 517230 3673362 4100040 56248
63   257  P  1 62 1891 37470 465290 2537742 1151848
63   257  S  1 62 1891 37820 488881 3527894 4272787 59272
63   258  C  1 63 1953 39711 550956 3931074 3847767 17083
63   258  P  1 62 1891 37820 504928 2691820 957720 62
63   258  S  1 62 1891 37820 518604 3751570 4053767 24892 1
63   259  C  1 63 1953 39711 562044 4043241 3720061 21492 42
63   259  P  1 62 1891 37820 518824 2843729 791935 42
63   259  S  1 62 1891 37820 528388 3863653 3924403 32348 42
63   260  C  1 63 1953 39711 517188 3551595 3994738 283359
63   260  P  1 62 1891 37820 474088 2535211 1132431 12800
63   260  S  1 62 1891 37820 488572 3370124 4159771 330363 4
63   261  C  1 63 1953 39102 548058 4153233 3640042 6156
63   261  P  1 62 1891 37211 498313 2784981 871831 14
63   261  S  1 62 1891 37268 515562 3958715 3864645 10464
63   262  C  1 63 1953 39711 585375 4665171 3095634 700
63   262  P  1 62 1891 37820 530780 2965358 658392
63   262  S  1 62 1891 37820 548815 4435199 3363958 862
63   263  C  1 63 1953 34881 320670 1278844 2674665 2771163 1306368
63   263  P  1 62 1891 32990 283144 916176 1479760 1153680 326592
63   263  S  1 62 1891 33380 309532 1279786 2685186 2772402 1306368
63   264  C  1 63 1953 39711 582435 4634343 3130029 73
63   264  P  1 62 1891 37820 532195 2969115 653220
63   264  S  1 62 1891 37820 546295 4407321 3394862 356
63   265  C  1 63 1953 37191 472773 3434259 4355463 86905
63   265  P  1 62 1891 35300 433099 2473715 1249612 624
63   265  S  1 62 1891 35460 444513 3240794 4542125 123762
63   266  C  1 63 1953 39711 560427 4017513 3760029 8911
63   266  P  1 62 1891 37820 514606 2752385 887539
63   266  S  1 62 1891 37820 526963 3839137 3968808 13926
63   267  C  1 63 1953 34881 320670 1277710 2673867 2773095 1306368
63   267  P  1 62 1891 32990 282964 915246 1481694 1152864 326592
63   267  S  1 62 1891 33380 309532 1278772 2684122 2774480 1306368
63   268  C  1 63 1953 39711 570087 4231962 3542763 2068
63   268  P  1 62 1891 37820 527287 2867027 760216
63   268  S  1 62 1891 37820 535459 4036042 3773142 4191
63   269  C  1 63 1953 39711 557865 3985776 3776068 27171
63   269  P  1 62 1891 37820 514519 2806947 833033 31
63   269  S  1 62 1891 37820 524725 3809162 3974034 40909 4
63   270  C  1 63 1953 39711 556938 3935484 3819241 35217
63   270  P  1 62 1891 37820 513505 2771668 869319 38
63   270  S  1 62 1891 37820 523986 3765644 4008246 50954 4
63   271  C  1 63 1953 39711 576072 4451265 3318472 1071
63   271  P  1 62 1891 37820 522334 2871597 760609
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<p align="center">Table 2 (continued)</p>

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 n    #  T  Coset weights
--  ---- -  ------------------------------
63  271 S  1 62 1891 37820 540724 4238265 3567934 1911
63  272 C  1 63 1953 39711 576072 4459707 3310282 819
63  272 P  1 62 1891 37820 527947 2922870 703713
63  272 S  1 62 1891 37820 540724 4246653 3559950 1507
63  273 C  1 63 1953 39711 563724 4173939 3604429 4788
63  273 P  1 62 1891 37820 519289 2834760 800481
63  273 S  1 62 1891 37820 529088 3981533 3828270 9143
63  274 C  1 63 1953 39711 546399 3532347 4057651 210483
63  274 P  1 62 1891 37400 471495 2278775 1386180 18500
63  274 S  1 62 1891 37820 514423 3385444 4194637 254330
63  275 C  1 63 1953 39711 509113 4633335 3123424 1008
63  275 P  1 62 1891 37820 533332 2939972 681226
63  275 S  1 62 1891 37820 552121 4408669 3386607 1437
63  276 C  1 63 1953 39711 582561 4587345 3176281 693
63  276 P  1 62 1891 37820 529120 2940071 685339
63  276 S  1 62 1891 37820 546397 4365459 3435787 1191
63  277 C  1 63 1827 32349 391230 3278898 4374154 301770 8316
63  277 P  1 62 1765 30584 354766 2355662 1427804 23604 56
63  277 S  1 62 1771 30922 369326 3074036 4583392 320782 8316
63  278 C  1 63 1827 32349 391230 2839512 4396464 704811 22344 7
63  278 P  1 62 1765 30584 354976 2070018 1650326 86355 217
63  278 S  1 62 1771 30922 369326 2674104 4514217 773946 24252 7
63  279 C  1 63 1953 39711 547029 3805074 3952486 42291
63  279 P  1 62 1891 37820 506584 2705571 942315 60
63  279 S  1 62 1891 37820 515113 3640519 4135009 58189 4
63  280 C  1 63 1953 39711 576772 4291374 3452175 26559
63  280 P  1 62 1891 37820 533072 2961362 660096
63  280 S  1 62 1891 37820 540872 4087980 3686636 33346
63  281 C  1 63 1953 39711 587293 4222470 3519081 18036
63  281 P  1 62 1891 37820 545693 2934335 674469 33
63  281 S  1 62 1891 37820 550517 4039876 3733526 24915
63  282 C  1 63 1827 31902 369831 2631762 5129922 223300
63  282 P  1 62 1765 30137 335119 2018411 1805519 3290
63  282 S  1 62 1771 30489 348913 2478352 5205075 323945
63  283 C  1 63 1827 31902 342790 2052855 3989034 1964088 6048
63  283 P  1 62 1765 30137 308437 1575372 1840482 438048
63  283 S  1 62 1771 30489 324962 1951043 4009632 2060712 9936
63  284 C  1 63 1953 39102 542437 4086579 3711753 6720
63  284 P  1 62 1891 37211 492584 2729708 932793 54
63  284 S  1 62 1891 37260 510616 3893360 3934488 10922
63  285 C  1 63 1953 37191 415681 2341020 3649779 1936872 6048
63  285 P  1 62 1891 35300 371405 1680069 1668168 429408
63  285 S  1 62 1891 35460 393883 2245164 3693555 2009088 9504
63  286 C  1 63 1584 20664 156750 748566 2166856 3183528 1883070 226410 1116
63  286 P  1 62 1522 19142 136327 582992 1383304 1492552 555438 22964
63  286 S  1 62 1542 20050 152844 735947 2150524 3191164 1901792 233494 1188
63  287 C  1 63 1953 39711 526701 4016775 7800681 4332059 59272
63  287 P  1 62 1891 37820 488881 3527894 4272787 59272
63  287 S  1 62 1891 37820 497341 3837074 7827079 4513652 62296
63  288 C  1 63 1953 39711 550956 4093866 7707084 4250872 128614 4096
63  288 P  1 62 1891 37820 513136 3580730 4126354 124518 4096
63  288 S  1 62 1891 37820 518604 3894414 7717930 4452214 150182 4096
63  289 C  1 63 1953 39711 562044 4156326 7483330 4159740 341280 32768
63  289 P  1 62 1891 37820 524224 3632102 3851228 308512 32768
63  289 S  1 62 1891 37820 528388 3962430 7489334 4355528 368994 32768
63  290 C  1 63 1953 39711 517188 3659577 7125838 4604073 743620 85184
63  290 P  1 62 1891 37820 479368 3180209 3945629 658444 85184
63  290 S  1 62 1891 37820 488572 3464338 7097562 4793460 800582 92928
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Table 2 (continued)

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 n    #  T  Coset weights
--  ----  -  ------------------------------
63  291 C  1 63 1953 39102 548058 4384380 7813645 3965062 24951 1
63  291 P  1 62 1891 37211 510847 3873533 3940112 24950 1
63  291 S  1 62 1891 37268 515562 4163175 7834857 4188100 36297 3
63  292 C  1 63 1953 39711 585375 4983069 7799802 3365764 1477 1
63  292 P  1 62 1891 37820 547555 4435514 3364288 1476 1
63  292 S  1 62 1891 37820 588815 4714991 7835911 3635734 1990 1
63  293 C  1 63 1953 34881 320670 1324960 3334912 5359392 4591104 1669312
              139968
63  293 P  1 62 1891 32990 287680 1037280 2297632 3061760 1529344 139968
63  293 S  1 62 1891 33380 309532 1324222 3345856 5361632 4591360 1669312
              139968
63  294 C  1 63 1953 39711 582435 4887666 7803369 3461167 850 1
63  294 P  1 62 1891 37820 544615 4343051 3460318 849 1
63  294 S  1 62 1891 37820 546295 4628843 7838195 3721882 2226 1
63  295 C  1 63 1953 37191 472773 3528381 7580433 4818877 333448 4096
63  295 P  1 62 1831 35300 437473 3090908 4489525 329352 4096
63  295 S  1 62 1891 35460 444513 3322226 7533225 5026762 408978 4098
63  296 C  1 63 1953 39711 560427 4179045 770742% 4165693 118804 4096
63  296 P  1 62 1891 37820 522607 3656438 4050985 114708 4096
63  296 S  1 62 1891 37820 526963 3980692 7721510 4365938 138243 4096
63  297 C  1 63 1953 34881 320670 1324960 3337264 5359392 4588752 1669312
              139968
63  297 P  1 62 1891 32990 287680 103 280 2299984 3059408 1529344 139968
63  297 S  1 62 1891 33380 309532 1324222 3348320 5361632 4588896 1669312
              139968
63  298 C  1 63 1953 39711 570087 4343409 7710591 4001329 105976 4096
63  298 P  1 62 1891 37820 532267 3811142 3899449 101880 4096
63  298 S  1 62 1891 37820 535459 4132610 7730839 4214020 120418 4096
63  299 C  1 63 1953 39711 557065 4097412 7458646 4218654 370143 32768
63  299 P  1 62 1891 37820 520045 3577367 3881279 337375 32768
63  299 S  1 62 1891 37820 524725 3906990 7457882 4410968 404109 32768
63  300 C  1 63 1953 39711 556938 4053168 7449259 4262886 380457 32780
63  300 P  1 62 1891 37820 519118 3534050 3915209 347677 32780
63  300 S  1 62 1891 37820 523986 3868488 7448141 4449458 414589 32780
63  301 C  1 63 1953 39711 576072 4741443 7807684 3607390 2898 1
63  301 P  1 62 1891 37820 538252 42031%1 3604493 2897 1
63  301 S  1 62 1891 37820 540724 44947%0 7840934 3855985 5058 1
63  302 C  1 63 1953 39711 576072 4670820 7804534 3678013 6048 1
63  302 P  1 62 1891 37820 538252 4132568 3671966 6047 1
63  302 S  1 62 1891 37820 540724 4431333 7834943 3919392 11049 1
63  303 C  1 63 1953 39711 563724 4312917 7758607 4035916 64323 1
63  303 P  1 62 1891 37820 525904 3787013 3971594 64322 1
63  303 S  1 62 1891 37820 529888 4102846 7770458 4247879 86370 1
63  304 C  1 63 1953 39711 557739 3990483 7610305 4358351 218610
63  304 P  1 62 1891 37820 519919 3470564 4139741 218610
63  304 S  1 62 1891 37820 524623 3808340 7597441 4542386 264652
63  305 C  1 63 1953 39711 589113 4964904 7795714 3383929 1827 1
63  305 P  1 62 1891 37820 551293 4413611 3382103 1826 1
63  305 S  1 62 1891 37820 552121 4700979 7832071 3649746 2524 1
63  306 C  1 63 1953 39711 582561 4885776 7802014 3463057 2079 1
63  306 P  1 62 1891 37820 544741 4341035 3460979 2078 1
63  306 S  1 62 1891 37820 546397 4628133 7837213 3722592 3106 1
63  307 C  1 63 1827 32349 391230 3427074 7580012 4895766 414738 33356
63  307 P  1 62 1765 30584 360646 3066428 4514384 381302 33356
63  307 S  1 62 1771 30922 369326 3201044 7577604 5123196 439826 33384
63  308 C  1 63 1827 32349 391230 2967276 7006740 5301888 988803 87032 7
63  308 P  1 62 1765 30584 360646 2606630 4400110 901778 87025 7
63  308 S  1 62 1771 30922 369326 2784036 6932126 5478502 1085377 95086 7
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Table 2 (continued)

n	#	T	Coset weights
63	309	C	1 63 1953 39711 547029 3864042 7418326 4452015 421299 32777
63	309	P	1 62 1891 37820 509209 3354833 4063493 388522 32777
63	309	S	1 62 1891 37820 515113 3691687 7408696 4626261 462907 32778
63	310	C	1 63 1953 39711 576772 4428210 7494720 3887856 315162 32768
63	310	P	1 62 1891 37820 538952 3889258 3605462 282394 32768
63	310	S	1 62 1891 37820 540872 4206048 7513810 4111910 332034 32768
63	311	C	1 63 1953 39711 587293 4307394 7444758 4008669 354603 32771
63	311	P	1 62 1891 37820 549473 3757921 3686837 321832 32771
63	311	S	1 62 1891 37820 550517 4113318 7452750 4204637 383449 32771
63	312	C	1 63 1827 31902 369831 2692053 7376820 5660494 640129 4096
63	312	P	1 62 1765 30137 339694 2352359 5024461 636033 4096
63	312	S	1 62 1771 30489 348913 2533024 7251683 5820937 786240 4096
63	313	C	1 63 1827 31902 342790 2097333 5145864 5623254 2898126 636056
63	313	P	1 62 1765 30137 312653 1784680 3361184 2262070 636056
63	313	S	1 62 1771 30489 324962 1992382 5083828 5714827 2978046 659848
63	314	C	1 63 1953 39102 542437 4313379 7827459 4036063 16758 1
63	314	P	1 62 1891 37211 505226 3808153 4019306 16757 1
63	314	S	1 62 1891 37268 510616 4094440 7849575 4256837 26525 1
63	315	C	1 63 1953 37191 415681 2459838 5169237 5255460 2801736 636056
63	315	P	1 62 1891 35300 380381 2079457 3089780 2165680 636056
63	315	S	1 62 1891 35460 393883 2353168 5143145 5349070 2849680 650848
63	316	C	1 63 1584 20664 156750 765954 2479672 4993224 5365983 2605949 384618 2754
63	316	P	1 62 1522 19142 137608 628346 1851326 3141898 2224085 381864 2754
63	316	S	1 62 1542 20050 152844 752546 2454394 4976582 5385705 2636416 394122 2952
63	317	C	1 63 1953 39711 595665 5629743 10352769 157311
63	317	P	1 62 1891 37820 546995 4257641 3542376 1822
63	317	S	1 62 1891 37820 557845 5263103 10671739 244754 1
63	318	C	1 63 1953 39711 545286 4641798 11056206 492149 49
63	318	P	1 62 1891 37670 500086 3634740 4204384 9774
63	318	S	1 62 1891 37820 513595 4389470 11180219 654109 49
63	319	C	1 63 1953 39711 584325 5580981 10425723 144459
63	319	P	1 62 1891 37740 536600 4235427 3575738 1149
63	319	S	1 62 1891 37820 547905 5227955 10731916 229666
63	320	C	1 63 1953 39711 584325 5646123 10462137 42903
63	320	P	1 62 1891 37530 526925 4229120 3593023 56
63	320	S	1 62 1891 37820 547800 5277740 10807735 104167
63	321	C	1 63 1953 39711 578634 5379654 10557204 219996
63	321	P	1 62 1891 37810 533021 4091897 3720842 3084
63	321	S	1 62 1891 37820 542913 5045791 10819797 328941
63	322	C	1 63 1953 39711 562338 4867695 10781421 524034
63	322	P	1 62 1891 37530 505247 3669258 4153669 20950
63	322	S	1 62 1891 37820 528515 4583204 10911967 713756
63	323	C	1 63 1953 39711 593145 5860701 10214673 66969
63	323	P	1 62 1891 37740 544250 4397528 3406765 371
63	323	S	1 62 1891 37820 555605 5475044 10584246 122547
63	324	C	1 63 1953 39081 546042 4569019 10786524 834526 7
63	324	P	1 62 1891 37054 493630 3512050 4311144 32776
63	324	S	1 62 1891 37250 513834 4310606 10853694 1059871 7
63	325	C	1 63 1953 39081 546525 4798836 10798251 592506
63	325	P	1 62 1876 36350 483014 3570486 4267244 29575
63	325	S	1 62 1891 37240 513366 4502732 10916687 805237
63	326	C	1 63 1953 39081 547659 4773015 10782771 632673
63	326	P	1 62 1891 36992 494372 3599229 4226345 29716
63	326	S	1 62 1891 37250 515155 4493065 10892142 837650
63	327	C	1 63 1953 39711 593544 5608560 10400580 132804
63	327	P	1 62 1891 37820 546659 4222923 3577986 1266

Table 2 (continued)

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n    #   T  Coset weights
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63  327 S  1 62 1891 37020 555988 5255150 10707169 219135
63  328 C  1 63 1953 39711 589050 5590557 10380552 175329
63  328 P  1 62 1891 37020 542465 4247430 3556846 2093
63  328 S  1 62 1891 37020 552070 5239622 10680511 265239
63  329 C  1 63 1953 39102 550368 4982299 10804332 399098
63  329 P  1 62 1891 37093 504507 3868951 3967751 8352
63  329 S  1 62 1891 37268 517448 4681062 10983357 556127
63  330 C  1 63 1953 39081 544905 4861654 10839444 490112
63  330 P  1 62 1891 37180 501988 3779899 4055369 11618
63  330 S  1 62 1891 37250 512839 4577101 10994935 653138
63  331 C  1 63 1953 34881 318696 1243942 2867970 4626510 4939200 2744000
63  331 P  1 62 1891 32072 277956 905708 1789190 2480128 2116800 784000
63  331 S  1 62 1891 33380 307670 1246068 2877226 4627718 4939200 2744000
63  332 C  1 63 1953 39711 578088 5321169 10485300 350924 7
63  332 P  1 62 1891 37670 530038 4080341 3732257 6348
63  332 S  1 62 1891 37820 542407 4997359 10719294 470375 7
63  333 C  1 63 1953 39711 567441 4912488 10434228 821331
63  333 P  1 62 1891 37600 510692 3641472 4133734 63156
63  333 S  1 62 1891 37820 533065 4630909 10561333 1012135
63  334 C  1 63 1953 39102 552384 4952829 10719996 530088
63  334 P  1 62 1891 37093 502210 3760833 4066678 19840
63  334 S  1 62 1891 37268 519220 4653616 10882308 682850
63  335 C  1 63 1953 36561 445410 3219804 9081744 3991680
63  335 P  1 62 1876 34010 394823 2484162 4703346 770328
63  335 S  1 62 1891 34880 419651 3033566 8877555 4400970 8640
63  336 C  1 63 1953 39711 593145 5756877 10286115 99351
63  336 P  1 62 1891 37810 545882 4344798 3457450 714
63  336 S  1 62 1891 37820 555640 5386920 10627074 167808
63  337 C  1 63 1953 39711 588735 5624136 10380615 142002
63  337 P  1 62 1891 37600 533645 4183691 3630355 1363
63  337 S  1 62 1891 37820 551605 5263226 10692137 230394
63  338 C  1 63 1953 38878 528948 4410945 10543287 1253134 7
63  338 P  1 62 1891 36987 482805 3384537 4384474 97851
63  338 S  1 62 1891 37066 498452 4166064 10588208 1485366 106
63  339 C  1 63 1890 35910 478170 4153716 11090169 1017297
63  339 P  1 61 1770 32490 413274 3134676 4728495 77041
63  339 S  1 62 1831 34260 449940 3899778 11103468 1287874 2
63  340 C  1 63 1890 35910 484785 4481568 11250315 522684
63  340 P  1 61 1770 32490 421335 3394140 4517938 20873
63  340 S  1 62 1831 34260 455715 4188648 11361850 734849
63  341 C  1 63 1890 35910 478170 4232025 11247516 781641
63  341 P  1 61 1770 32490 413346 3194019 4700735 46186
63  341 S  1 62 1831 34260 449940 3966288 11280229 1044605
63  342 C  1 63 1953 39508 572733 5256216 10500735 406600 7
63  342 P  1 62 1891 37607 527580 4041521 3772115 7831
63  342 S  1 62 1891 37636 537600 4939424 10721657 538938 7
63  343 C  1 63 1953 39508 550746 4801419 10802127 581392 7
63  343 P  1 62 1891 37607 512589 3809191 4012824 14443
63  343 S  1 62 1891 37636 517976 4518977 10939046 761620 7
63  344 C  1 63 1953 39508 581490 5481504 10403085 269605 7
63  344 P  1 62 1891 37607 536037 4196347 3613458 3205
63  344 S  1 62 1891 37636 545249 5140790 10670634 380946 7
63  345 C  1 63 1890 35910 472185 4095252 11286828 885087
63  345 P  1 61 1770 32410 405440 3078757 4812143 58026
63  345 S  1 62 1831 34260 444555 3839934 11270020 1186553
63  346 C  1 63 1890 35910 469980 3589488 9453465 3224907 1512
63  346 P  1 61 1770 32480 398659 2600916 4646772 707949
63  346 S  1 62 1831 34260 442770 3387372 9349302 3560082 1536
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Table 2 (continued)

a	#	T	Coset weights
63	347	C	1 63 1090 35910 476595 4161906 10949041 1151010
63	347	P	1 61 1770 32600 411193 3118508 4710849 113746
63	347	S	1 62 1031 34260 440545 3904512 10960053 1427856 96
63	348	C	1 63 1953 39508 57>638 5307032 10454997 318024
63	348	P	1 62 1091 37617 529024 4120800 3694164 5049
63	348	S	1 62 1091 37636 540126 5054012 10712116 431372
63	349	C	1 63 1953 39081 546343 4583775 10787026 818146 20
63	349	P	1 62 1091 37190 497192 3530863 4277529 43000
63	349	S	1 62 1091 37250 514152 4326487 10860475 1036856 42
63	350	C	1 63 1953 39508 570843 5072760 10585443 506624 21
63	350	P	1 62 1091 37617 524730 3945714 3866895 11690
63	350	S	1 62 1091 37636 535955 4770009 10763330 660309 23
63	351	C	1 63 1027 32349 306505 3121398 10717100 2517400 405
63	351	P	1 62 1765 30504 354578 2527644 5172366 301608
63	351	S	1 62 1771 30922 365171 2933526 10482769 2962001 513
63	352	C	1 63 1764 20044 270270 1553202 4810644 6116796 3337929 658503
63	352	P	1 61 1620 23900 210702 1073286 2824740 2899620 1195641 158949
63	352	S	1 62 1711 26057 256259 1465545 4572123 6093195 3560976 785349 15138
63	353	C	1 63 1953 37307 468405 3822294 11034007 1412131 175
63	353	P	1 62 1091 35054 417737 2989276 4840314 104273
63	353	S	1 62 1091 35715 443455 3606936 10952492 1736402 182
63	354	C	1 63 1953 37184 448896 3142657 8955190 4167072 24192
63	354	P	1 62 1091 34051 391351 2352516 4576752 1031104
63	354	S	1 62 1091 35531 425660 2906103 8836392 4464792 26784
63	355	C	1 63 1764 28012 302526 2103570 8284920 6055560
63	355	P	1 59 1540 23324 225659 1422225 4615380 2100420
63	355	S	1 62 1709 27496 284690 1956078 7780500 6705720 20160
63	356	C	1 63 1504 20664 156330 748062 2334744 4699296 5639949 3176523
63	356	P	1 62 1522 19102 135500 589554 1611070 2695626 2470923 866360
63	356	S	1 62 2005U 152424 734934 2313114 4691430 5665527 3198132
63	357	C	1 63 1953 39711 595665 5820948 15934842 10916493 244755 1
63	357	P	1 62 1891 37820 557045 5263103 10671739 244754 1
63	357	S	1 62 1891 37820 557045 5433518 15842076 11305014 374603 2
63	358	C	1 63 1953 39711 549507 4841193 15540105 11896200 685650 49
63	358	P	1 62 1891 37820 511687 4329506 11210599 685601 49
63	358	S	1 62 1891 37820 517375 4566998 15350215 12172287 907734 49
63	359	C	1 63 1953 39711 586845 5820948 15975918 10916494 212499
63	359	P	1 62 1891 37820 549025 5271923 10703995 212499
63	359	S	1 62 1891 37820 550145 5438633 15900441 11300701 324738
63	360	C	1 63 1953 39711 593460 6094368 16117731 10643074 64071
63	360	P	1 62 1891 37820 555640 5538728 10579003 64071
63	360	S	1 62 1891 37820 555920 5677636 16085255 11061698 134149
63	361	C	1 63 1953 39711 578949 5534256 15845529 11203186 350784
63	361	P	1 62 1891 37820 541129 4993127 10852402 350784
63	361	S	1 62 1891 37820 543193 5181792 15729374 11557542 502757
63	362	C	1 63 1953 39711 570339 5223519 15607746 11513923 597177
63	362	P	1 62 1891 37820 532519 4691000 10916746 597177
63	362	S	1 62 1891 37820 535675 4904763 15429899 11834571 809750
63	363	C	1 63 1953 39711 595665 6126697 16088814 10610755 90783
63	363	P	1 62 1891 37620 557845 5568842 10519972 90783
63	363	S	1 62 1891 37820 557845 5707752 16051170 11031501 166309 1
63	364	C	1 63 1953 39081 550137 4847122 15131466 11889152 1093659 1798
63	364	P	1 62 1891 37190 512947 4334175 10797291 1091861 1798
63	364	S	1 62 1891 37250 517489 4560820 14932140 12177277 1355695 1807
63	365	C	1 63 1953 39711 576408 5346685 15606348 11390757 592506
63	365	P	1 62 1891 37820 534588 4808097 10798251 592506
63	365	S	1 62 1891 37820 540568 5007161 15428949 11732173 805807
63	366	C	1 63 1953 39081 553140 5076927 15519258 11661145 702864

Table 2 (continued)

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 a   #   T  Chest weights
 --  ---  -  -----------------------------
 63  366 P  1 62 1891 37190 519950 4560977 10950201 702864
 63  366 S  1 62 1891 37250 520075 4767267 15322910 11972637 932339
 63  367 C  1 63 1953 39711 593544 5797930 15905150 10939503 196560 1
 63  367 P  1 62 1891 37020 555724 5242214 10742944 196559 1
 63  367 S  1 62 1891 37020 555988 5420250 15903680 11319075 315656 1
 63  368 C  1 63 1953 39711 809050 5774391 15909201 10963050 277011 1
 63  368 P  1 62 1891 37020 551230 5223161 10606040 277010 1
 63  368 S  1 62 1891 37020 552070 5399913 15817371 11339420 405803 1
 63  369 C  1 63 1953 39102 582342 5137153 15566530 11600898 656390
 63  369 P  1 62 1891 37211 515131 4622022 10944900 656390
 63  369 S  1 62 1891 37260 519310 4821214 15391306 11918672 864709
 63  370 C  1 63 1953 39001 545223 4991560 15480529 11746491 741510 21
 63  370 P  1 62 1891 37190 508033 4483527 11005002 741409 21
 63  370 S  1 62 1891 37250 513118 4690302 15301923 12049501 960203 21
 63  371 C  1 63 1953 34801 320670 1324960 3541440 7141408 10169152 8275904
            2744000
 63  371 P  1 62 1891 32990 207680 1037280 2504160 4637240 5531904 2744000
 63  371 S  1 62 1891 33380 309532 1324222 3552384 7143648 10169408 8275904
            2744000
 63  372 C  1 63 1953 39711 582607 5569452 15608176 11167903 504399 7
 63  372 P  1 62 1891 37020 548067 5024505 10663591 504392 7
 63  372 S  1 62 1891 37020 546499 5217767 15559136 11521560 669609 7
 63  373 C  1 63 1953 39711 573993 5281416 15332680 11456026 868501
 63  373 P  1 62 1891 37020 536173 4745243 10587445 868501
 63  373 S  1 62 1891 37020 530913 4962480 15163412 11776854 1072999
 63  374 C  1 63 1953 39102 554350 5184732 15589056 11553319 631040
 63  374 P  1 62 1891 37211 517147 4667505 10921471 631040
 63  374 S  1 62 1891 37260 521082 4862009 15420945 11077077 833297
 63  375 C  1 63 1953 37191 472773 3666530 12310009 13073424 3991600
 63  375 P  1 62 1891 35300 437473 3229065 9081744 3991680
 63  375 S  1 62 1891 35460 444513 3443027 11921201 13290027 4409610 8640
 63  376 C  1 63 1953 39711 593460 5965344 16029783 10772090 152019
 63  376 P  1 62 1891 37020 555640 5409704 10620079 152019
 63  376 S  1 62 1891 37020 555920 5567892 15970952 11171442 240452
 63  377 C  1 63 1953 39711 595665 5988780 16007355 10740662 172242
 63  377 P  1 62 1891 37020 557045 5430935 10576420 172242
 63  377 S  1 62 1891 37020 557045 5589445 15939767 11149888 277712 1
 63  378 C  1 63 1953 38878 528948 4581549 14747214 12155962 1499100 764
 63  378 P  1 62 1891 36987 491961 4089588 10657626 1498336 764
 63  378 S  1 62 1891 37066 490452 4316995 14506381 12422248 1770491 845
 63  379 C  1 63 1953 37801 514080 4631886 15243885 12107466 1017297
 63  379 P  1 62 1891 35910 478170 4153716 11090169 1017297
 63  379 S  1 62 1891 36091 484202 4349719 15003246 12391342 1207876 2
 63  380 C  1 63 1953 37801 520695 4966353 15731803 11772999 522604
 63  380 P  1 62 1891 35910 484785 4481568 11250315 522604
 63  380 S  1 62 1891 36091 489977 4644364 15550498 12096699 734849
 63  381 C  1 63 1953 37801 514080 4710195 15479541 12029157 781641
 63  381 P  1 62 1891 35910 478170 4232025 11247516 781641
 63  381 S  1 62 1891 36091 484202 4416229 15246517 12324834 1044605
 63  382 C  1 63 1953 39508 573048 5420142 15579984 11317496 622230 7
 63  382 P  1 62 1891 37617 535431 4884711 10695273 622223 7
 63  382 S  1 62 1891 37636 537880 5082684 15433635 11656827 803009 7
 63  383 C  1 63 1953 39508 551061 4819248 14880936 11917949 1343265 448
 63  383 P  1 62 1891 37617 513444 4305804 10575132 1342817 448
 63  383 S  1 62 1891 37636 518256 4534545 14666022 12204276 1591046 697
 63  384 C  1 63 1953 39508 581805 5655888 15745296 11081750 448161 7
 63  384 P  1 62 1891 37617 544188 5111700 10633596 448154 7
 63  384 S  1 62 1891 37636 545529 5292641 15627931 11446870 601864 7
```

Table 2 (continued)

n	#	T	Coset weights
63	385	C	1 63 1983 37001 500095 4567437 15382000 12171915 889007
63	385	P	1 62 1891 35910 472185 4095252 11206020 805087
63	385	S	1 62 1891 36091 478017 4204490 15109954 12456573 1186553
63	386	C	1 63 1953 37001 505090 4059460 13042953 12678372 3226419 1512
63	386	P	1 62 1891 35910 469980 3589488 9453465 3224907 1512
63	386	S	1 62 1891 36091 477032 3030143 12736674 12909304 3561610 1536
63	387	C	1 63 1953 37001 512505 4638501 15111747 12100051 1151010
63	387	P	1 62 1891 35910 476595 4161906 10949041 1151010
63	387	S	1 62 1891 36091 482807 4353058 14864565 12307909 1427952 96
63	388	C	1 63 1953 39508 575638 5579182 15730077 11150428 460747 35
63	388	P	1 62 1891 37617 538021 5041161 10697716 460712 35
63	388	S	1 62 1891 37636 540126 5221356 15618769 11518127 616429 35
63	389	C	1 63 1953 39081 546343 4771956 15028503 11963351 1200416 2765
63	389	P	1 62 1891 37190 509153 4262803 10765700 1197651 2765
63	389	S	1 62 1891 37250 514152 4495627 14790544 12241492 1462620 2705
63	390	C	1 63 1953 39508 570843 5236623 15346801 11500704 857610 238
63	390	P	1 62 1891 37617 533226 4703397 10643404 857300 238
63	390	S	1 62 1891 37636 535955 4922090 15175461 11817161 1063900 267
63	391	C	1 63 1827 32349 386505 3149748 13222665 13591504 3166210 3472
63	391	P	1 62 1765 30504 355921 2793827 10428030 3162746 3472
63	391	S	1 62 1771 30922 365171 2958185 12730759 13783600 3679514 4439
63	392	C	1 63 1827 29809 298314 1023472 6363846 10927440 9454725 3996432 680503
63	392	P	1 62 1765 28044 270270 1553202 4810644 6116796 3337929 680503
63	392	S	1 62 1771 28569 283118 1721804 6037660 10665318 9654171 4346328 800487 15138
63	393	C	1 63 1953 37307 475468 3988551 14263725 12749906 2036062 1309 7
63	393	P	1 62 1891 35496 439972 3548579 10715146 2034760 1302 7
63	393	S	1 62 1891 35715 450118 3766941 13946342 12973107 2378857 1391 7
63	394	C	1 63 1953 37104 455959 3391465 12049793 13318264 4269510 30240
63	394	P	1 62 1891 35293 420666 2970799 9078994 4239270 30240
63	394	S	1 62 1891 35531 432323 3219539 11721321 13408308 4621600 33696
63	395	C	1 63 1827 30577 331338 2406096 10308490 14360400 6055560
63	395	P	1 62 1765 28012 302526 2103570 8204920 6055560
63	395	S	1 62 1771 29206 312186 2241560 9737378 14406220 6725000 20160
63	396	C	1 63 1584 20664 156750 765954 2603712 6434683 10676043 9543036 3338703 12016 343
63	396	P	1 62 1522 19142 137608 628346 1975366 4459317 6216726 3326310 12473 343
63	396	S	1 62 1542 20050 152844 752546 2576034 6399195 10678255 9591329 3368140 14034 392
63	397	C	1 63 1953 39711 595665 5786991 25303089 31120975 4233516 18900
63	397	P	1 62 1891 37820 548045 4818946 16234303 11363352 550012
63	397	S	1 62 1891 37820 557845 5396726 24319597 31560062 5194603 40257
63	398	C	1 63 1953 39711 578991 6151845 35265846 24999887 70567
63	398	P	1 62 1891 37820 541171 5422976 22078722 5471407 302
63	398	S	1 62 1891 37820 543235 5713190 33503594 27197052 112019
63	399	C	1 63 1953 39711 593460 6669621 38903781 20897124 3150
63	399	P	1 62 1891 37750 551825 5820586 23071342 4070975
63	399	S	1 62 1891 37820 555885 6164278 36970804 23367846 10277
63	400	C	1 63 1953 39711 593460 6670440 39170712 20630302 2142
63	400	P	1 62 1891 37750 549935 5791525 23206799 3966402 6
63	400	S	1 62 1891 37820 555885 6164200 37189652 23152375 6978
63	401	C	1 63 1953 39711 578949 5684259 25508809 5767944 168
63	401	P	1 62 1891 37820 533876 4675747 15645433 11627797 1031805
63	401	S	1 62 1891 37820 543193 5306032 24487604 30227419 6503456 586
63	402	C	1 63 1953 39711 593460 6599565 37613919 22253220 6972
63	402	P	1 62 1891 37750 550565 5711825 22519957 4732381

Table 2 (continued)

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 n    •   ?  Coset weights
--  ----  -  ---------------------------
63   002  S  1 62 1091 37020 555005 6104257 35762262 24626210 20476
63   003  C  1 63 1953 39711 593460 6471133 30060627 20931220 2000
63   003  P  1 62 1091 37790 550000 5001020 23092713 4070114 1
63   003  S  1 6? 1091 37020 555005 6165106 36926360 23413045 7006
63   004  C  1 63 1953 39711 506992 6150438 33702696 26205364 341646
63   004  P  1 62 1091 37020 549172 5463926 21572608 5025035 3117
63   004  S  1 62 1091 37020 550264 5715430 31991665 20347403 464240
63   005  C  1 63 1953 39711 503023 6213630 34313022 25020305 137076
63   005  P  1 62 1091 37020 544223 5494033 21016591 5650619 392
63   005  S  1 62 1091 37020 546343 5752039 32549146 27900437 233125
63   006  C  1 63 1953 39711 595665 6528456 35205108 24609471 120436
63   006  P  1 62 1091 37020 554975 5722446 22226307 5010905 25
63   006  S  1 62 1091 37020 557045 6047094 33501210 26675760 207101
63   007  C  1 63 1953 39711 593544 5872009 25149636 20919025 6501013 31029
63   007  P  1 62 1091 37020 550964 4939455 15753730 11230068 1031673 768
63   007  S  1 62 1091 37020 555900 5480279 24202667 29506546 7190322 45200
63   008  C  1 63 1953 39711 595665 6633207 36427060 23344155 66249
63   008  P  1 62 1091 37020 556665 5080001 22720022 4349737 33
63   008  S  1 62 1091 37020 557045 6136979 34746145 25516544 111577
63   008  C  1 63 1953 39102 560973 5913642 34391224 26140706 53200
63   009  P  1 62 1091 37211 523762 5264936 21927409 5790971 109
63   009  S  1 62 1091 37260 526057 5493770 32598401 20354009 96525
63   010  C  1 63 1953 39711 505375 6235007 34666236 25505641 73990 7
63   010  P  1 62 1091 37020 545695 5466161 21765105 57375°7 110
63   010  S  1 62 1091 37020 540015 5788538 32903293 27617125 131312 7
63   011  C  1 63 1953 34001 320670 1324960 3541440 7470016 13072736 18811520
                22573024
63   011  P  1 62 1091 32990 287680 1037280 2504160 4966656 8062060 10749440
                5912192
63   011  S  1 62 1091 33300 309532 1324222 3552384 7473056 13020992 18811520
                22573024
63   012  C  1 63 1953 39711 595665 6668676 37501842 22284391 16562
63   012  P  1 62 1091 37020 557045 5930099 22834734 4191965 15
63   012  S  1 62 1091 37020 557045 6166976 35700940 24611209 32119 1
63   013  C  1 63 1953 39711 509113 6305680 35480046 24555513 56704
63   013  P  1 62 1091 37020 546623 5486050 21610816 5070102 107
63   013  S  1 62 1091 37020 552121 5919483 33769308 26720762 107416
63   014  C  1 63 1953 39102 554358 5302920 24179337 29031280 7154952 44890
63   014  P  1 62 1091 37211 512604 4422692 15107093 11992237 1470017 2544
63   014  S  1 62 1091 37268 521082 4960331 23185453 30456591 7093499 52686
63   015  C  1 63 1953 37191 472773 4042083 20073375 35863359 6610066
63   015  P  1 62 1091 35300 435641 3465498 14033107 14740440 034492
63   015  S  1 62 1091 35460 444513 3761338 18824724 35740201 8292032 8642
63   016  C  1 63 1953 39711 59°565 6755742 39854029 19059724 1176
63   016  P  1 62 1091 370?0 555605 5919897 23447766 3591390
63   016  S  1 62 1091 37020 557045 6239953 37847103 22420860 3329
63   017  C  1 63 1953 39711 589050 6011901 26428605 20700071 5335953 756
63   017  P  1 62 1091 37610 536390 4852567 15903622 11254587 967702
63   017  S  1 62 1091 37020 551965 5594416 25405248 29503918 6012531 1012
63   018  C  1 63 1953 39711 502750 6145524 33284211 26774104 200467
63   018  P  1 62 1091 37020 543100 5412998 21401692 6076245 623
63   018  S  1 62 1091 37020 546550 5708882 31718691 20679879 415080
63   019  C  1 63 1953 39126 564480 5878908 32518674 27020665 204994
63   019  P  1 62 1091 37235 524078 5143692 21297388 6549787 298
63   019  S  1 62 1091 37290 529980 5466882 30938096 29701466 433196
63   020  C  1 63 1953 39126 564480 5951988 33807475 26570206 85572
63   020  P  1 62 1091 37235 525878 5297535 22049223 5642580 27
63   020  S  1 62 1091 37290 529980 5530036 32199757 28646376 162611
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Table 2 (continued)

n	θ	τ	Coset weights

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 n    θ    τ   Coset weights
----  ---  -   -----------------------------
63   421  C   1  63 1953 39126 564400 5903730 32994801 27396858 208152
63   421  P   1  62 1891 37235 524078 5100433 21580423 6222230 79
63   421  S   1  62 1891 37290 529980 5487717 31363014 29359904 328925
63   422  C   1  63 1953 39711 509113 6431733 36905056 23049397 11037
63   422  P   1  62 1891 37820 549403 5663780 22680010 4621462 3
63   422  S   1  62 1891 37820 552121 5959952 35162513 25367033 26671
63   423  C   1  63 1953 39711 509113 6450570 37220487 22795003 11956 7
63   423  P   1  62 1891 37820 551293 5713241 22830367 4419744 13
63   423  S   1  62 1891 37820 552121 5975478 35364196 25151704 25504 7
63   424  C   1  63 1953 39711 595665 6591249 35306673 24329795 243733 21
63   424  P   1  62 1891 37820 584065 5672795 21252808 6030194 4716
63   424  S   1  62 1891 37820 587845 6100292 33700154 26352721 380057 21
63   425  C   1  63 1953 39126 560700 5828886 33678414 26937099 63622
63   425  P   1  62 1891 37165 516233 5013107 21366603 6619194 176
63   425  S   1  62 1891 37290 526625 5418393 31897664 29100019 110119
63   426  C   1  63 1953 39126 562905 5403457 27705205 30125592 3110562
63   426  P   1  62 1891 37235 523358 4745930 17956787 10241664 47496
63   426  S   1  62 1891 37290 520585 5118243 26428068 31403454 3590358 12
63   427  C   1  63 1953 39126 562905 5896630 33099301 27406000 139797
63   427  P   1  62 1891 37235 522503 5079956 20897079 7014541 1164
63   427  S   1  62 1891 37290 520585 5447718 31417744 29431576 243997
63   428  C   1  63 1953 39711 507293 6561975 36754042 22990834 164992
63   428  P   1  62 1891 37820 547503 5810542 22991136 4164646 751
63   428  S   1  62 1891 37820 550517 6067074 35039425 25197695 214377 2
63   429  C   1  63 1953 39711 507293 6178935 34132084 25691712 476193 119
63   429  P   1  62 1891 37820 549473 5482636 21667581 5808104 6064
63   429  S   1  62 1891 37820 550517 5739894 32361593 27827207 589760 119
63   430  C   1  63 1953 39711 502498 6166692 33663732 26480031 174183
63   430  P   1  62 1891 37820 544048 5495306 21781906 5692817 501
63   430  S   1  62 1891 37820 546346 5731082 32112581 28415169 263911 1
63   431  C   1  63 1827 32349 391230 3402378 21101592 37237284 4906755 35385
63   431  P   1  62 1765 30584 359666 2963262 15397708 14538468 262836
63   431  S   1  62 1771 30922 369326 3179876 19642954 37970724 5069787 35441
63   432  C   1  63 1827 31134 336807 2307627 9469827 20602755 21711024 10672290
                 1975509
63   432  P   1  62 1765 29369 306071 1946979 6965649 11792115 9144738 3049785
                 317898
63   432  S   1  62 1771 29768 318375 2167909 8926907 19862443 21901266 11483763
                 2371185 45414
63   433  C   1  63 1953 39102 554722 5562102 30986238 29651419 313264
63   433  P   1  62 1891 37211 513272 4829062 20352711 7817741 2401
63   433  S   1  62 1891 37268 521386 5182293 29304595 31507728 473640
63   434  C   1  63 1953 39102 540505 4934874 24608090 32537484 4440744 6048
63   434  P   1  62 1891 37211 499055 4244252 16637344 11902488 232128
63   434  S   1  62 1891 37268 508747 4624095 23309965 33421953 5117970 6912
63   435  C   1  63 1827 31902 369831 2935737 15271935 37589706 10907862
63   435  P   1  62 1765 30137 336324 2513563 11475422 17749398 1447560
63   435  S   1  62 1771 30489 348913 2738507 14194721 36352528 13428192 13680
63   436  C   1  63 1584 20664 156750 765954 2603712 6515976 12517869 19026891
                 23365272 2051976 81711 441
63   436  P   1  62 1522 19142 137608 628346 1975366 4540610 7977259 11049632
                 6800960 413460 10464
63   436  S   1  62 1542 20050 152844 752546 2576034 6480446 12492535 19027108
                 23389784 2128024 97405 483
63   437  C   1  63 1953 39711 595665 5954571 29716323 55079659 36754665 5234860
                 40257
63   437  P   1  62 1891 37820 557845 5396726 24319597 31560062 5194603 40257
63   437  S   1  62 1891 37820 557845 5546666 28309709 55293156 38174283 6231158
                 65135 2
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Table 2 (continued)

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63  438 C  1 63 1953 39711 578991 6151845 38111619 60634955 20416090 282209 210
                                                                            1
63  438 P  1 62 1891 37020 541171 5610674 32500945 28134010 282080 209 1
63  438 S  1 62 1891 37020 543235 5713190 35940537 60961413 30614904 396370 216
                                                                            1
63  439 C  1 63 1953 39711 595665 6785656 43637622 60274981 22073623 0253
63  439 P  1 62 1891 37020 557845 6228011 37409611 22065370 0253
63  439 S  1 62 1891 37020 557845 6266336 41126670 60702569 25422457 22077
63  440 C  1 63 1953 39711 595665 6832035 44281356 60232582 22229009 4473
63  440 P  1 62 1891 37020 557845 6274190 38007166 22225416 4473
63  440 S  1 62 1891 37020 557845 6305300 41700872 60751920 24040255 13784
63  441 C  1 63 1953 39711 578949 5826702 30198004 55265178 36329076 5977210
              001
63  441 P  1 62 1891 37020 541129 5285573 24912511 30352667 5976409 001
63  441 S  1 62 1891 37020 543193 5431939 28743794 54062573 37018338 6776470
              1647
63  442 C  1 63 1953 39711 595665 6742071 42562023 60311903 23949222 15036
63  442 P  1 62 1891 37020 557845 6184226 36377797 23934186 15036
63  442 S  1 62 1891 37020 557845 6229196 40141646 60003673 26407401 30113
63  443 C  1 63 1953 39711 595665 6808914 43046782 60254569 22664460 5607 3
63  443 P  1 62 1891 37020 557845 6251069 37595713 22650896 5604 3
63  443 S  1 62 1891 37020 557845 6205794 41316574 60760730 25232580 16480 3
63  444 C  1 63 1953 39711 506992 6150438 35855280 59636052 30664584 1282599 04
              1
63  444 P  1 62 1891 37020 549172 5601266 30254014 29382038 1282516 03 1
63  444 S  1 62 1891 37020 550264 5715430 33031800 59731611 32724744 1623940 04
              1
63  445 C  1 63 1953 39711 503023 6237759 37089075 60162765 29434012 668566
63  445 P  1 62 1891 37020 545203 5692556 31396519 28766246 668566
63  445 S  1 62 1891 37020 546343 5772766 34936716 60300403 31623907 917733 6
63  446 C  1 63 1953 39711 595665 6594732 38864862 59749920 27646303 724438
63  446 P  1 62 1891 37020 557845 6036007 32827975 26921945 724438
63  446 S  1 62 1891 37020 557845 6104382 36794767 60014009 29754360 951711
63  447 C  1 63 1953 39711 593544 5970117 28995603 53175720 37122291 7923253
              395472
63  447 P  1 62 1891 37020 555724 5414393 23581210 29594510 7527701 395472
63  447 S  1 62 1891 37020 555988 5565848 27678272 52806094 38472652 8690240
              400060
63  448 C  1 63 1953 39711 595665 6657336 39427185 59788500 27084060 623254
63  448 P  1 62 1891 37020 557845 6099491 33327694 26460806 623254
63  448 S  1 62 1891 37020 557845 6157706 37333047 60094500 29215280 818776
63  449 C  1 63 1953 39102 560973 5913642 36452080 60837241 30093766 310015 91
              1
63  449 P  1 62 1891 37211 523762 5389880 31062200 29775041 310725 90 1
63  449 S  1 62 1891 37268 526857 5493770 34354303 61085497 32225721 492266 91
              1
63  450 C  1 63 1953 39711 585375 6280491 38091357 60476692 28430171 311907 7
63  450 P  1 62 1891 37020 547555 5732936 32358421 28118271 311900 7
63  450 S  1 62 1891 37020 548815 5826974 35971794 60787278 30586356 456730 7
63  451 C  1 63 1953 34881 320670 1324960 3541440 7470816 13028736 18811520
              22573824 22573824 18811520 13023360 7441920 3472896 1302336
              383040 85120 13440 1344 64
63  451 P  1 62 1891 32990 287680 1037280 2504160 4966656 8062080 10749440
              11024384 10749440 8062080 4961280 2480640 992256 310080 72960
              12160 1280 64
63  451 S  1 62 1891 33380 309532 1324222 3552384 7473056 13028992 18811520
              22573824 22573824 18811520 13023360 7441920 3472896 1302336
              383040 85120 13440 1344 64
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Table 2 (continued)

n	?	?	Coset weights
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n    ?   ?  Coset weights
-- ----  -  ----------------------------------------
63  452 C  1 63 1953 39711 595665 6660676 40375020 60231160 26136162 169253 63
                                                                       1
63  452 P  1 62 1091 37820 557845 6110031 34264189 25966971 169191 62 1
63  452 S  1 62 1091 37820 557845 6166976 38151992 60645369 20397072 258636 63
                                                                       1
63  453 C  1 63 1953 39711 589113 6494166 40308387 60501003 26209410 73921
63  453 P  1 62 1091 37820 551293 5942073 34365514 26135489 73921
63  453 S  1 62 1091 37820 552121 6013241 38052907 60917099 20501864 140642
63  454 C  1 63 1953 39102 584350 5395845 28042287 53995455 30450937 7678399
                 59328
63  454 P  1 62 1091 37211 517147 4878698 23163509 30831866 7619071 59328
63  454 S  1 62 1091 37268 521082 5041478 26675811 53522708 39036695 8507340
                 73384
63  455 C  1 63 1953 37191 472773 4081099 21781011 53726190 44053123 9263521 3
63  455 P  1 62 1091 35300 437473 3644426 18136585 35509605 9263510 3
63  455 S  1 62 1091 35460 444513 3795650 20319375 52120096 46334379 11157500
                 8705
63  456 C  1 63 1953 39711 595665 6809544 44190321 60255723 22320924 3823
63  456 P  1 62 1091 37820 557845 6251699 37938622 22317101 3823
63  456 S  1 62 1091 37820 557845 6286279 41611065 60774184 24937262 10819
63  457 C  1 63 1953 39711 595665 6343029 32050494 55335319 34459866 5390742
                 885
63  457 P  1 62 1091 37820 557845 5785184 26265310 29070009 5389957 885
63  457 S  1 62 1091 37820 557845 5890109 30563154 55088393 35904774 6092480
                 1199
63  458 C  1 63 1953 39711 582750 6188742 36222594 59694771 30301503 1105577 63
63  458 P  1 62 1091 37820 544930 5643012 30578782 29115909 1105514 63
63  458 S  1 62 1091 37820 546550 5746182 34282017 59818326 32277472 1806474
                 133
63  459 C  1 63 1953 39126 564480 5947263 35630310 59997915 30912120 1124497
63  459 P  1 62 1091 37235 527245 5420018 30210292 29787623 1124497
63  459 S  1 62 1091 37290 529900 5526081 33684336 60095001 32892650 1449630 6
63  460 C  1 63 1953 39126 564480 5981220 35977944 60096600 30564486 991855
63  460 P  1 62 1091 37235 527245 5453975 30523969 29572631 991855
63  460 S  1 62 1091 37290 529900 5556027 34010954 60217518 32566034 1297967 4
63  461 C  1 63 1953 39126 564480 5972085 35983776 60072201 30530654 1025309
63  461 P  1 62 1091 37235 527245 5444840 30538936 29533265 1025309
63  461 S  1 62 1091 37290 529900 5546901 33997597 60193809 32579395 1330802
63  462 C  1 63 1953 39711 589113 6478227 40460262 60531145 26057535 59718
63  462 P  1 62 1091 37820 551293 5926934 34533328 25997817 59718
63  462 S  1 62 1091 37820 552121 5999894 38184347 60954739 28370504 116349
63  463 C  1 63 1953 39711 589113 6450570 40105131 60518461 26412596 100058 70
                                                                       1
63  463 P  1 62 1091 37820 551293 5899277 34205854 26312607 99989 69 1
63  463 S  1 62 1091 37820 552121 5975478 37837254 60920978 20717525 174525 72
                                                                       1
63  464 C  1 63 1953 39711 595665 6680835 40137261 60079652 26373963 308603 21
63  464 P  1 62 1091 37820 557845 6122990 34014271 26065301 308502 21
63  464 S  1 62 1091 37820 557845 6177530 37974148 60436921 20574958 456531 21
63  465 C  1 63 1953 39126 562905 6006546 38047026 60965353 28496979 97776
63  465 P  1 62 1091 37235 525670 5480876 32566150 28399203 97776
63  465 S  1 62 1091 37290 528585 5574658 35816021 61313787 30762366 183067
63  466 C  1 63 1953 39126 562905 5535369 30719307 56169540 35824698 5364766
63  466 P  1 62 1091 37235 525670 5009699 25709608 30459932 5364766
63  466 S  1 62 1091 37290 528585 5162904 29009071 56110134 37569292 5790474 24
63  467 C  1 63 1953 39126 562905 5927985 36797106 60921315 29746899 220375
63  467 P  1 62 1091 37235 525670 5402315 31394791 29526524 220375
63  467 S  1 62 1091 37290 528585 5506902 34672774 61184923 31905613 379687
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Table 2 (continued)

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63  468 C  1 63 1953 39711 507293 6609603 40116604 59669757 26403013 709730
63  468 P  1 62 1891 37820 549473 6060130 34056474 25413283 709730
63  468 S  1 62 1891 37820 550517 6107898 37947864 59979953 20600585 903131 C
63  469 C  1 63 1953 39711 507293 6178935 36434211 59501407 30005098 1300747
                                                                  300 1
63  469 P  1 62 1891 37820 549473 5629462 30804749 28776658 1308440 307 1
63  469 S  1 62 1891 37820 550517 5739894 34326360 59727074 32229751 1604013
                                                                  344 1
63  470 C  1 63 1953 39711 502498 6182190 35768709 59608203 30755319 1278697
                                                                  304
63  470 P  1 62 1891 37820 544678 5637512 30131197 29477006 1278313 384
63  470 S  1 62 1891 37820 546346 5744396 33925289 59724709 32634953 1601877
                                                                  304
63  471 C  1 63 1827 32349 391230 3427074 22512498 56535102 44082747 7113772
                                                                  120561 504
63  471 P  1 62 1765 30584 360646 3066428 19446070 37089032 6993715 120087 504
63  471 S  1 62 1771 30922 369326 3201044 20854738 55606020 45737847 8270312
                                                                  145481 504
63  472 C  1 63 1827 31134 336807 2336859 10084584 25341381 37798641 34063282
                                                                  18228501 5336145 658503
63  472 P  1 62 1765 29369 307438 2029421 8055163 17286218 20512423 13550059
                                                                  4677642 658503
63  472 S  1 62 1771 29768 318375 2193040 9469654 24168978 37043543 34631928
                                                                  19429271 6069950 846249 15138
63  473 C  1 63 1953 39102 554722 5636694 33907264 60591814 32564894 841191 70
63  473 P  1 62 1891 37211 517511 5119183 28868081 31723733 841121 70
63  473 S  1 62 1891 37260 521386 5248492 32052670 60683074 34532043 1139960 73
63  474 C  1 63 1953 39102 540505 5009466 27157238 55477299 39402993 6982934
                                                                  6174
63  474 P  1 62 1891 37211 503294 4506172 22651066 32826233 6576760 6174
63  474 S  1 62 1891 37260 508747 4690294 25667092 55019899 40923171 7361341
                                                                  7062
63  475 C  1 63 1827 31902 369831 2965851 16000995 47523840 50486730 16587200
                                                                  249400
63  475 P  1 62 1765 30137 339694 2626157 13374038 34149002 16337728 249400
63  475 S  1 62 1771 30489 348913 2767128 14868843 45219273 51523216 18091912
                                                                  366120
63  476 C  1 63 1584 20664 156750 765954 2603712 6515976 12517869 19026891
                                                                  23365272 23497176 19497548 13380108 7572480 3505152 1307184
                                                                  303376 85120 13440 1344 64
63  476 P  1 62 1522 19142 137608 628346 1975366 4540610 7977259 11049632
                                                                  12315640 11181536 8316012 5064096 2508384 996768 310416 72960
                                                                  12160 1280 64
63  476 S  1 62 1542 20050 152844 752546 2576034 6480446 12492535 19027108
                                                                  23389784 23530440 19524172 13394724 7578080 3506592 1307408
                                                                  303392 85120 13440 1344 64
63  477 C  1 63 1953 39711 595665 7028847 55071345 71177295 302652 196
63  477 P  1 62 1891 37820 557845 6346262 39085495 21078221 1267
63  477 S  1 62 1891 37820 557845 6471002 50920822 75534878 693148 258 1
63  478 C  1 63 1953 39711 595665 6820317 49535913 75820425 1403673 7
63  478 P  1 62 1891 37820 557740 6129386 35804616 24559755 17593
63  478 S  1 62 1891 37820 557845 6294860 46041975 78945620 2337645 9
63  479 C  1 63 1953 39711 593145 6886215 52647609 73898503 150528
63  479 P  1 62 1891 37810 554785 6203568 37939363 22371384
63  479 S  1 62 1891 37820 555640 6348404 48819583 78110935 343392
63  480 C  1 63 1953 39711 593145 6886215 52647609 73973767 75264
63  480 P  1 62 1891 37810 554785 6203568 37928527 22382220
63  480 S  1 62 1891 37820 555640 6348404 48819583 77952910 501410 7
```

Table 2 (continued)

n	#	T	Coset weights
63	481	C	1 63 1953 39711 585060 6465648 46310628 78343209 2471455
63	481	P	1 62 1891 37810 546700 5817654 34305103 26360200 39443
63	481	S	1 62 1891 37820 548535 5983774 43117636 80796537 3731471 1
63	482	C	1 63 1953 39711 588924 6660612 49930923 75758935 1236606
63	482	P	1 62 1891 37810 550564 5997978 36238049 24270159 11550
63	482	S	1 62 1891 37820 551943 6153622 46329953 79084009 2058427
63	483	C	1 63 1953 39711 595350 7011018 54988185 71273020 300427
63	483	P	1 62 1891 37810 556990 6318606 39004355 21180111 1030
63	483	S	1 62 1891 37820 557565 6455434 50027034 75675603 662238
63	484	C	1 63 1953 39711 593145 6876135 52507938 73035356 363426
63	484	P	1 62 1891 37810 554680 6189372 37750656 22572697 1695
63	484	S	1 62 1891 37820 555640 6339854 48656366 77820097 805997
63	485	C	1 63 1953 39711 593145 6614559 45999093 77563213 3405990
63	485	P	1 62 1891 37810 551845 5838126 33241817 27342616 94696
63	485	S	1 62 1891 37820 555640 6117796 42924673 79916067 4663778
63	486	C	1 63 1953 39711 585060 6407058 45085719 78896958 3201142 63
63	486	P	1 62 1891 37810 546385 5771682 33599200 27083194 60639
63	486	S	1 62 1891 37820 548535 5934124 42034113 81042059 4618260 63
63	487	C	1 63 1953 39711 588924 6587406 48139959 77071162 1788549
63	487	P	1 62 1891 37810 550144 5900166 34847422 25738607 32761
63	487	S	1 62 1891 37820 551943 6091822 44769505 79955811 2808073
63	488	C	1 63 1953 39711 595350 6739362 48637848 76707908 1495452
63	488	P	1 62 1891 37810 554050 5959050 34853908 25679078 23014
63	488	S	1 62 1891 37820 557565 6224026 45203863 79710859 2400041
63	489	C	1 63 1953 39711 593544 6716248 48271113 76739571 1855524
63	489	P	1 62 1891 37820 551419 5910696 34367089 26201579 30307
63	489	S	1 62 1891 37820 555988 6203020 44890350 79590131 2938465
63	490	C	1 63 1953 39081 588810 5961106 42121758 81223042 4311474
63	490	P	1 62 1891 37190 521620 5362166 31673695 29385093 127146
63	490	S	1 62 1891 37250 525070 5536422 39293052 82004140 6019040
63	491	C	1 63 1953 39711 593544 6626172 45789240 77472150 3694066 28
63	491	P	1 62 1891 37820 555169 5965004 34003550 26430824 118043
63	491	S	1 62 1891 37820 555988 6127476 42725652 79617069 5151741 28
63	492	C	1 63 1953 39711 595665 6840414 50737701 75008088 994132
63	492	P	1 62 1891 37820 556270 6125276 36484829 23892659 10056
63	492	S	1 62 1891 37820 557845 6311722 47128446 78450838 1729103
63	493	C	1 63 1953 39081 553140 5720211 39060031 81648000 7187206 42
63	493	P	1 62 1076 36350 494620 4840475 28204935 33024829 505716
63	493	S	1 62 1891 37240 519141 5297669 36200104 82317372 9044120 120
63	494	C	1 63 1953 39081 558810 5874759 40442052 81090725 5410257 27
63	494	P	1 62 1891 37190 520993 5237510 30157662 30913164 200391
63	494	S	1 62 1891 37250 525070 5462678 37799032 82979969 7011740 27
63	495	C	1 63 1953 39711 593544 6679048 46085251 76746563 3272766 28
63	495	P	1 62 1891 37820 555169 5985206 34446198 25980091 94426
63	495	S	1 62 1891 37820 555988 6172728 43684000 79153755 4611370 33
63	496	C	1 63 1953 39711 595665 6786360 49120113 76442802 1231060
63	496	P	1 62 1891 37820 554590 6021191 35214016 25261554 17739
63	496	S	1 62 1891 37820 557845 6265310 45667762 79532099 2154938
63	497	C	1 63 1953 39711 593145 6692868 47513172 76872733 2504082
63	497	P	1 62 1891 37810 554765 6048018 34982023 25430096 54170
63	497	S	1 62 1891 37820 555640 6184880 44294648 79456835 3605951
63	498	C	1 63 1953 39102 558999 5841003 39586281 80872197 7318087 42
63	498	P	1 62 1891 37093 515685 5150223 29822726 31235491 345692
63	498	S	1 62 1891 37268 524995 5424325 36931837 81739714 9557557 78
63	499	C	1 63 1953 39102 558999 5870536 38508225 78871065 10367784
63	499	P	1 62 1891 37093 515390 5110245 27863343 32556243 1024596
63	499	S	1 62 1891 37268 524995 5449852 35991183 79240026 12972234 216
63	500	C	1 63 1953 39711 593145 6721029 48741357 76531560 1588902 7

Table 2 (continued)

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n   e  ?  Coset weights
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63  500 P  1 62 1091 37010 554470 6074502 35999231 24425689 15200
63  500 S  1 62 1091 37020 555640 6200688 45367706 79477642 2860171  7
63  501 C  1 63 1953 39711 595350 6811434 49262724 75040015 1637677
63  501 P  1 62 1091 37010 556675 6140047 36104195 24164121 16002
63  501 S  1 62 1091 37020 587565 6206076 45045405 70060559 2627469
63  502 C  1 63 1953 39711 593145 6029641 50002339 74655259 1295616
63  502 P  1 62 1091 37010 554680 6132453 36355315 24003901 22671
63  502 S  1 62 1091 37020 555640 6300668 47187318 78023927 2110401
63  503 C  1 63 1953 39102 558999 5855934 38408500 77903448 11440514 1134
63  503 P  1 62 1091 37093 516159 5149200 28389460 32010336 1004662
63  503 S  1 62 1091 37268 524995 5437297 35928934 70343497 13940229 3934
63  504 C  1 63 1953 36561 445410 3501540 16905000 41903200 49392000 21952000
63  504 P  1 62 1076 36010 396655 2927960 12768700 25499600 20776000 4700000
63  504 S  1 62 1091 34080 419651 3275342 15858661 40679380 50231060 23637600
           78400
63  505 C  1 63 1953 39711 593145 6614559 46760826 78019326 2100137  7
63  505 P  1 62 1091 37010 551845 5865174 34077704 26535912 38465
63  505 S  1 62 1091 37020 555640 6117796 43558252 80530908 3407351  7
63  506 C  1 63 1953 39508 584010 6599691 48697362 76785795 1509345
63  506 P  1 62 1091 37617 543804 5856324 34906445 25736422 26298
63  506 S  1 62 1091 37636 547454 6097018 45218047 79829150 2406461
63  507 C  1 63 1953 39508 584010 6516720 46419093 78145803 2510577
63  507 P  1 62 1091 37617 545604 5857821 34270109 26349405 46194
63  507 S  1 62 1091 37636 547454 6027325 43247573 80567365 3700421
63  508 C  1 63 1953 39508 584010 6635034 49607218 76027527 1262414
63  508 P  1 62 1091 37617 545604 5960355 36055713 24496163 11450
63  508 S  1 62 1091 37636 547454 6127657 46111295 79307410 2006322
63  509 C  1 63 1953 39508 584010 6474384 45695664 78407570 2934567
63  509 P  1 62 1091 37617 545604 5860035 34465556 26154757 43341
63  509 S  1 62 1091 37636 547454 5991037 42578297 80732603 4328667
63  510 C  1 63 1953 39508 584010 6571530 48610171 77031037 1370655
63  510 P  1 62 1091 37617 545604 5925135 35533156 25048978 16620
63  510 S  1 62 1091 37636 547454 6073855 45176879 80114089 2265061
63  511 C  1 63 1953 39508 584010 6580413 48575772 77085612 1350396
63  511 P  1 62 1091 37617 543804 5843994 34970117 25603662 19716
63  511 S  1 62 1091 37636 547454 6080215 45086720 80161562 2302107
63  512 C  1 63 1953 39508 581490 6427260 46071522 78790635 2305296
63  512 P  1 62 1091 37607 542544 5768203 34000076 26716499 41901
63  512 S  1 62 1091 37636 545249 5940413 42860289 81256965 3567222
63  513 C  1 63 1953 39508 583695 6220494 39080349 76405833 11005032
63  513 P  1 62 1091 37607 541914 5419675 28120113 31791452 1196149
63  513 S  1 62 1091 37636 547174 5774095 36630450 76760369 14457729 321
63  514 C  1 63 1953 39508 581490 6513822 47807487 77540652 1732752
63  514 P  1 62 1091 37607 542544 5824564 3404123* 25039451 21506
63  514 S  1 62 1091 37636 545249 6022423 44418465 80404846 2707155
63  515 C  1 63 1953 39508 583695 6318396 40679415 76019769 10574928
63  515 P  1 62 1091 37607 542229 5501795 28040518 31123458 1061303
63  515 S  1 62 1091 37636 547174 5856864 38063509 76631082 13079423 6
63  516 C  1 63 1953 39508 583695 6537195 47151279 77321853 2502181
63  516 P  1 62 1091 37607 544749 5870917 34461122 26130407 62020
63  516 S  1 62 1091 37636 547174 6044103 43094551 79902553 3709757
63  517 C  1 63 1827 32349 391230 3387951 20697123 69574176 39030624 294304
63  517 P  1 62 1765 30584 360283 3008855 16645828 38781095 0272543 7848
63  517 S  1 62 1771 30922 369326 3167235 19285095 66540106 44287501 533709
63  518 C  1 63 1827 32146 379575 3072951 16075611 46857447 51277968 15116014
           1403325
63  518 P  1 62 1765 30381 346191 2612043 12037617 28073619 19813842 4006233
           107110
```

Table 2 (continued)

n	d	T	Coset weights
63	518	S	1 62 1771 30730 338013 2803825 15007135 44604049 52389130 17106107
			1741239 4050
63	519	C	1 63 1953 39711 507293 6523671 47560312 77716611 1700113
63	519	P	1 62 1091 37820 540918 5860052 36667047 25959303 32870
63	519	S	1 62 1091 37820 550517 6034910 44201600 80538299 2058620
63	520	C	1 63 1953 38078 524097 4541059 22090314 96538759 43266636 6414120
			6040
63	520	P	1 62 1876 36039 457944 3606084 15613722 30446640 15509016 1437000
63	20	S	1 62 1091 37056 493381 4254939 21593562 54622644 40204160 7028704
			131320
63	521	C	1 63 1764 28012 302526 2117602 9882516 29647540 51003209 40203007
63	521	P	1 59 1540 23324 225694 1445402 6117740 16470060 28529033 17294003
63	521	S	1 62 1709 27496 284690 1968820 9109394 27294560 40809037 41177150
			5764001
63	522	C	1 63 1953 37387 470610 4047204 23712570 73825500 32182660
63	522	P	1 62 1091 35094 419942 3368204 17607450 30990700 6608600
63	522	S	1 62 1091 35715 445380 3802891 22216690 70857570 36037360 20160
63	523	C	1 63 1953 39711 595665 7028847 57391024 126455700 76220026 693006
			259 1
63	523	P	1 62 1091 37820 557845 6471002 50920022 75534070 693140 290 1
63	523	S	1 62 1091 37820 557845 6471002 52861152 126331746 80796910 1377096
			321 2
63	524	C	1 63 1953 39711 595665 6022963 51657396 124325196 81962706 3029795 7
63	524	P	1 62 1091 37820 557845 6265118 45392278 70932918 3029700 7
63	524	S	1 62 1091 37820 557845 6297128 47854573 123381202 85003401 4801816
			17
63	525	C	1 63 1953 39711 593460 6904044 55167907 126930510 78454327 343392
63	525	P	1 62 1091 37820 555640 6348404 48019583 78110935 343392
63	525	S	1 62 1091 37820 555920 6363972 50939925 126852476 82719975 963390 16
63	526	C	1 63 1953 39711 593460 6904044 55167907 126772493 78454320 501417 7
63	526	P	1 62 1091 37820 555640 6348404 48019583 77952910 501410 7
63	526	S	1 62 1091 37820 555920 6363972 50939925 126568906 82719961 1246908
			30
63	527	C	1 63 1953 39711 585375 6483477 48242607 123000102 85307792 4614295
63	527	P	1 62 1091 37820 547555 5935922 42306685 80773497 4614295
63	527	S	1 62 1091 37820 548815 5999342 44758079 121644040 80900938 6536064 4
63	528	C	1 63 1953 39711 589239 6678441 52058559 125119373 81567976 2300100
63	528	P	1 62 1091 37820 551419 6127022 45931537 79187836 2300140
63	528	S	1 62 1091 37820 552223 6169190 48135233 124324180 85520368 3606460
			12
63	529	C	1 63 1953 39711 595665 7028847 57614466 126546764 76005636 602343 7
63	529	P	1 62 1091 37820 557845 6471002 51143464 75403300 602336 7
63	529	S	1 62 1091 37820 557845 6471002 53042026 126507649 80615096 1201194
			69 1
63	530	C	1 63 1953 39711 593460 6896232 55010508 126476141 78611806 805501
63	530	P	1 62 1091 37820 555640 6340592 48669916 77806225 805501
63	530	S	1 62 1091 37820 555920 6357390 50778607 126237270 82081229 1585106
63	531	C	1 63 1953 39711 593460 6695892 49589925 123118955 84032319 4363107
			70
63	531	P	1 62 1091 37820 555640 6140252 43449673 79669282 4363037 70
63	531	S	1 62 1091 37820 555920 6188020 46064863 122075479 87594983 5916347
			70
63	532	C	1 63 1953 39711 585375 6432447 46861059 121702057 86769277 6043450
			63
63	532	P	1 62 1091 37820 547555 5884892 40976167 80725890 6043387 63
63	532	S	1 62 1091 37820 548815 5956196 43550430 120055856 90116522 8167794
			69
63	533	C	1 63 1953 39711 589239 6615063 50666721 124837070 82959814 2725821

Table 2 (continued)

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n    θ   T   Coset weights
--   --- -   ------------------------------
63  533 P   1 62 1891 37820 551419 6063644 44603077 80233993 2728821
63  533 S   1 62 1891 37820 552223 6115062 46930635 123913041 06732978 4150143
63  534 C   1 63 1953 39711 595665 6820695 52309005 125206974 01311097 2070205 7
63  534 P   1 62 1891 37820 557845 6262850 46046155 79240019 2070278 7
63  534 S   1 62 1891 37820 557845 6295050 48401723 124541707 05256261 3343009 7
63  535 C   1 63 1953 39711 593544 6014276 52468950 125130258 01153200 2233420
63  535 P   1 62 1891 37820 555724 6250552 46210390 70919060 2233420
63  536 S   1 62 1891 37820 555900 6287910 48562009 124362000 05097039 3529040
63  536 C   1 63 1953 39001 558810 5961186 43430143 120493005 90210750 7723012
                  63 1
63  536 P   1 62 1891 37190 521620 5439566 37990577 82495300 7723490 62 1
63  536 S   1 62 1891 37250 525070 5536422 40414626 110519095 93276047 10124098
                  93 1
63  537 C   1 63 1953 39711 593544 6636882 47377600 119555046 06241034 7900026
                  2716
63  537 P   1 62 1891 37820 555724 6081158 41296522 78250524 7903310 2716
63  537 S   1 62 1891 37820 555900 6136960 44103206 117009044 09953327 10153042
                  3315
63  538 C   1 63 1953 39711 595665 6079205 53732049 125729346 79080060 1569323
63  538 P   1 62 1891 37820 557845 6321440 47410609 78310737 1569323
63  538 S   1 62 1891 37820 557845 6345080 49609186 125194229 03960005 2640037
63  539 C   1 63 1953 39711 583023 6274675 44797503 120716031 88035206 7187248
                  42
63  539 P   1 62 1891 37820 545203 5729472 39068031 81648000 7187206 42
63  539 S   1 62 1891 37820 546343 5804051 41500019 110531412 92169354 9044303
                  120
63  540 C   1 63 1953 39001 558810 5888745 42290745 119994089 91366129 8294090
                  90
63  540 P   1 62 1891 37190 521620 5367125 36923620 83071269 8294060 90
63  540 S   1 62 1891 37250 525070 5474843 39401831 117822842 94280039 10082731
                  96
63  541 C   1 63 1953 39711 593544 6690558 49048965 121412013 84573111 6075303
                  154
63  541 P   1 62 1891 37820 555724 6134834 42914131 78497882 6075229 154
63  541 S   1 62 1891 37820 555900 6182212 45546095 119967561 88112717 0030073
                  236
63  542 C   1 63 1953 39711 595665 6862905 52039213 125500777 80780096 1806272
63  542 P   1 62 1891 37820 557845 6305060 46534153 78974624 1806272
63  542 S   1 62 1891 37820 557845 6331340 48894228 124024511 04763763 3023998
63  543 C   1 63 1953 39711 593460 6710697 49270242 122317469 04352072 5149788
63  543 P   1 62 1891 37820 555640 6155057 43115185 79202284 5149788
63  543 S   1 62 1891 37820 555920 6200448 45787078 120977819 07072035 7001879 3
63  544 C   1 63 1953 39102 560973 5940229 42320146 117578350 91324324 10651904
                  2331
63  544 P   1 62 1891 37211 523762 5424467 36903679 80674671 10649653 2331
63  544 S   1 62 1891 37268 526857 5523032 39412272 115427431 94273034 13229935
                  3673
63  545 C   1 63 1953 39102 560973 5984692 41932303 115672621 91722490 12521250
63  545 P   1 62 1891 37211 523762 5460930 36471373 79201248 12521250
63  545 S   1 62 1891 37268 526857 5554514 39060082 113292380 94620081 15333504
                  216
63  546 C   1 63 1953 39711 593460 6746418 50612394 123450370 83009913 3901166 7
63  546 P   1 62 1891 37820 555640 6190778 44421616 79028754 3901159 7
63  546 S   1 62 1891 37820 555920 6230760 46961806 122319597 06690096 5629489
                  14
63  547 C   1 63 1953 39711 595665 6836823 51375240 123631544 82244062 3709587 7
63  547 P   1 62 1891 37820 557845 6278970 45096262 78535282 3709580 7
63  547 S   1 62 1891 37820 557845 6309948 47640393 122560342 86017591 5302556 7
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Table 2 (continued)

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a    #   T  Const weights
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63  548 C  1 63 1953 39711 593460 6849730 53430342 125316038 80191972 2012178
63  548 P  1 62 1091 37020 555640 6294098 47136244 78179794 2012178
63  548 S  1 62 1091 37020 555920 6310204 49420698 124676054 84239210 3184708
63  549 C  1 63 1953 39102 560973 5953710 41320482 114023210 92326171 14201635
                8140
63  549 P  1 62 1091 37211 523762 5429940 35890534 78132604 14193487 8148
63  549 S  1 62 1091 37268 526857 5527829 38549132 111644022 95125176 17007747
                14671
63  550 C  1 63 1953 37191 472773 3940274 20415001 58888200 91375200 71340000
                21952000
63  550 P  1 62 1091 35300 437473 3510801 16905000 41983200 49392000 21952000
63  550 S  1 62 1091 35460 444513 3683075 19144063 56551271 90911240 73060000
                23716000 78400
63  551 C  1 63 1953 39711 593460 6695892 50015616 123951241 83606628 3530821
                70
63  551 P  1 62 1091 37020 555640 6140252 43075364 80075077 3530731 70
63  551 S  1 62 1091 37020 555920 61800.0 46403344 122834057 87256582 5187769
                70
63  552 C  1 63 1953 39508 584010 6660360 52262539 125561466 81369228 1986331
63  552 P  1 62 1091 37617 546393 6113967 46148572 79412094 1986331
63  552 S  1 62 1091 37636 547454 6149356 48299577 124056394 85360088 3176280
63  553 C  1 63 1953 39508 584010 6534108 48410908 122009275 85226086 6034774
63  553 P  1 62 1091 37617 546393 5987715 42423193 80306002 4034774
63  553 S  1 62 1091 37636 547454 6042346 44949191 121300590 90710189 6740000 2
63  554 C  1 63 1953 39508 584010 6652422 52043551 125241930 81560213 2283005
63  554 P  1 62 1091 37617 546393 6106029 45937522 79304400 2283005
63  554 S  1 62 1091 37636 547454 6142678 48112221' 124465523 85556097 3571820
                72 1
63  555 C  1 63 1953 39508 584010 6491772 47043052 120049497 86560605 7636888
                27
63  555 P  1 62 1091 37617 546393 5945379 41097673 78951024 7636861 27
63  555 S  1 62 1091 37636 547454 6006050 43724208 118307333 89943710 9866639
                464
63  556 C  1 63 1953 39508 584010 6588918 50524999 124088006 83106765 2701153
63  556 P  1 62 1091 37617 546393 6042525 44482474 80405612 2701153
63  556 S  1 62 1091 37636 547454 6088076 46795242 123940112 86073130 4143042 2
63  557 C  1 63 1953 39508 584010 6639381 52013752 128745615 81610012 1793161
63  557 P  1 62 1091 37617 546393 6092908 45920764 79824051 1793161
63  557 S  1 62 1091 37636 547454 6131230 48057721 125035402 85610661 3013380
63  558 C  1 63 1953 39508 581805 6462099 48269473 123463079 85364496 4082979
63  558 P  1 62 1091 37617 544108 5917911 42351562 81311517 4052979
63  558 S  1 62 1091 37636 545529 5978702 44745823 122290596 88924404 5910732
63  559 C  1 63 1953 39508 584010 6315813 42602686 113914081 91028700 13940263
                370
63  559 P  1 62 1091 37617 546393 5769420 36833266 77000815 13947885 370
63  559 S  1 62 1091 37636 547454 5856484 39766870 111503457 93899081 16820089
                1631
63  560 C  1 63 1953 39508 581805 6548661 50436295 124630633 83197674 2990063
63  560 P  1 62 1091 37617 544108 6004473 44431822 80198811 2990063
63  560 S  1 62 1091 37636 545529 6052712 46677263 123637513 86993044 4489805
63  561 C  1 63 1953 39508 584010 6406155 44424457 115722811 89207307 12049191
63  561 P  1 62 1091 37617 546393 5859762 38564695 77150116 12049191
63  561 S  1 62 1091 37636 547454 5933221 41375357 113465418 92292989 14781391
                36
63  562 C  1 63 1953 39508 584010 6572034 49409962 123227938 84221802 4370185
63  562 P  1 62 1091 37617 546393 6025641 43384321 79843617 4370185
63  562 S  1 62 1091 37636 547454 6074392 45834740 121996408 87833642 6109230
63  563 C  1 63 1827 32349 391230 3391635 20909526 80290791 111594931 50502920
                1320213
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Table 2 (continued)

n	⚬	T	Coset weights

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n    ⚬  T  Coset weights
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63  563 P  1 62 1765 30584 360646 3030959 17878567 62412224 49182707 1320213
63  563 S  1 62 1771 30922 369326 3170726 19480222 75891330 112309714 55124608
              2056694
63  564 C  1 63 1827 32146 379575 3123855 17372734 58638321 96476625 70122457
              19895841 23G0886 91125
63  564 P  1 62 1765 30381 349194 2774661 14599073 44040248 52436377 17606000
              2209761 91125
63  564 S  1 62 1771 30738 358813 2928640 16259658 55476460 95075489 73187713
              22430871 2594115 91125
63  565 C  1 63 1953 39711 587293 6534381 49584543 124496136 84043938 3147437
63  565 P  1 62 1891 37820 549473 5984908 43599635 80896501 3147437
63  565 S  1 62 1891 37820 550517 6044394 45920078 123406156 87745241 4729296
63  566 C  1 63 1953 39508 553777 5067280 27439434 79424073 99802395 49600756
              6420168 6048
63  566 P  1 62 1891 37617 516160 4551120 22888314 56535759 43266636 6414120
              6048
63  566 S  1 62 1891 37636 520563 4738913 25857465 76226925 99077776 53082064
              7960032 131328
63  567 C  1 63 1827 30577 331338 2420208 12000198 39530064 81530757 92236016
              40353607
63  567 P  1 62 1765 28012 302526 2117602 9882516 29647548 51803209 40353607
63  567 S  1 62 1771 29206 312186 2253510 11078214 36403962 75083605 89766187
              46941951 5764801
63  568 C  1 63 1953 37387 477673 4213461 25686591 90523777 107870070 39443040
              181440
63  568 P  1 62 1891 35496 442177 3771284 21915307 68608470 39261600 181440
63  568 S  1 62 1891 35715 452043 3962896 24109479 86555435 109200714 43663620
              453600
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Table 2 (continued)