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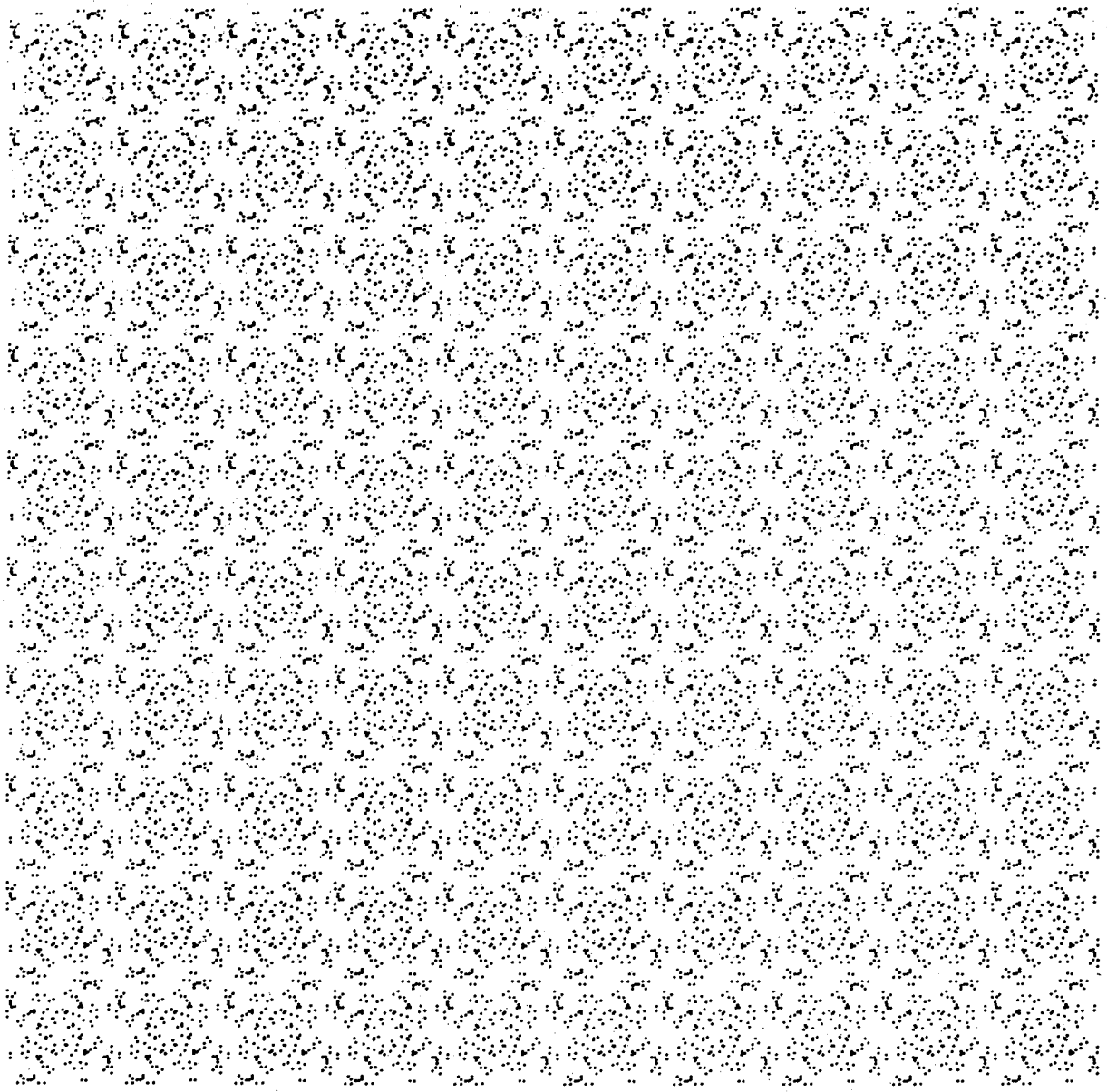
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Example of a Fibonacci Residue Cycle Pattern. This plot consists of the pattern with generators $[2, 15]$, modulus 73, repeated 10 times in each direction.

FIBONACCI RESIDUE CYCLES

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Abstract

An additively generated sequence of non-negative integers, determined by its modulus and by a pair of generators, forms simply periodic cycles since the generators eventually appear again as a consecutive pair. These cycles (which we call "Fibonacci residue cycles" by analogy to the classical additively generated sequence $\{0, 1, 1, 2, 3, 5, 8, 13, 21, \dots\}$) partition the pairs of non-negative integers less than the modulus into equivalence classes of generators, since any consecutive pair of integers occurring in a given cycle can be used as generators for the same cycle.

Interpreting each consecutive integer pair as a point in two dimensions, we can plot each Fibonacci residue cycle as a pattern. In part 1 of this report, all the different patterns that occur with modulus 99 or less are systematically displayed. Part 2 consists of a table giving the smallest generator pair for each of the disjoint cycles, up to modulus 255.

Part I

Two-dimensional patterns of
Fibonacci residue cycles

Introduction

Fibonacci Residue Cycles

Let m be any integer larger than 1, and let g_0 and g_1 be any non-negative integers smaller than m . The Fibonacci residue sequence with modulus m and generators $[g_0 : g_1]$ is the sequence $\{g_n\}$ ($n = 1, 2, 3, \dots$) defined by

$$g_{n+1} = \text{mod}(g_n + g_{n-1}, m)$$

For instance, with $m = 10$ and generators $[1 : 3]$ we have

1, 3, 4, 7, 1, 8, 9, 7, 6, 3, 9, 2, . . .

Note that the generators form an ordered pair. The pair $[3 : 1]$ generates a different sequence,

3, 1, 4, 5, 9, . . .

Also, any two consecutive numbers that appear in a sequence can be used as generators for extending the sequence; for example, $[7 : 1]$ produces

7, 1, 8, 9, 7, 6, 3, 9, 2, . . .

Since there are m^2 different ordered pairs of non-negative integers smaller than m , some pair of consecutive integers must appear again as a consecutive

pair before the sequence has gone beyond m^2 terms. In fact, it follows from the reversibility relation

$$g_{n-1} = \text{mod}(g_{n+1} - g_n, m)$$

that the first pair (i.e., the original generators) must reappear as a consecutive pair within m^2 terms. (See also Wall, Ref. 1, Theorem 1). Thus, for any pair of generators, the residue sequence forms a cycle of at most m^2 terms. We actually find, in fact, that these cycles consist of considerably fewer than m^2 terms. For example, with modulus 10 and generators [1 : 3], the sequence repeats after the 12 terms listed above; hence we say that this sequence forms a cycle of period 12.

If we use as generators any two numbers that do not appear as a consecutive pair in this cycle, we obtain a different cycle: for example,

$$2, 6, 8, 4, \dots$$

Thus the m^2 pairs of non-negative integers smaller than m combine into cycles of various lengths.

If we look only at the different cycles (using as new generators only those pairs which have not appeared consecutively in any previous cycle), the sum of all the periods must total m^2 . For modulus 10, for example, we have

[0 : 0] → 0

[0 : 1] → 0 1 1 2 3 5 8 3 1 4 5 9 4 3 7
0 7 7 4 1 5 6 1 7 8 5 3 8 1 9
0 9 9 8 7 5 2 7 9 6 5 1 6 7 3
0 3 3 6 9 5 4 9 3 2 5 7 2 9 1

[0 : 2] → 0 2 2 4 6 0 6 6 2 8 0 8 8 6 4
0 4 4 8 2

[0 : 5] → 0 5 5

[1 : 3] → 1 3 4 7 1 8 9 7 6 3 9 2

[2 : 6] → 2 6 8 4

The lengths of these cycles are 1, 60, 20, 3, 12, and 4; the sum of the lengths is 100.

These generators are listed under "Modulus 10" in the table in Part 2. Note that the cycle [0 : 0], of period 1, exists for every modulus, and is omitted from the table (as well as from the following discussion, for the most part). The value of g_0 is listed at the left, followed by a colon, and the various values of g_1 corresponding to this g_0 appear to the right of the colon (and are continued on several lines, if necessary).

Note that the table in Part 2 lists only the generators along with certain information concerning the period, described below). The smallest of present day computers can produce a cycle when the generators are known; this is even

easier when the period is also known. More formidable, however, is the task of accounting for all the m^2 generator pairs, for values of m as large as 100 or so. This more difficult task has, therefore, been performed on a large computer (The Control Data 7600 at Lawrence Laboratory, University of California, Berkeley).

The generators listed in the table are chosen in a slightly arbitrary manner. As noted above, any consecutive pair in the cycle could have been listed as well as the generators that are given. The table was produced by taking generators in lexicographic order, rejecting pairs which have already occurred in the cycle of an earlier pair of generators for the same modulus.

Periods.

The main facts concerning the periods of cycles, for various values of the modulus, have been worked out by D. D. Wall (Reference 1). We find that, for any modulus, no cycle has a longer period than the cycle generated by $[0 : 1]$; in fact, the periods of all other cycles are divisors of this fundamental period.

The fundamental period for any prime modulus, p , is directly related (see Brother U. Alfred, Reference 2) to $Z(p)$, which is the subscript of the first Fibonacci number (in the classical sequence 0, 1, 1, 2, 3, 5, 8, 13, 21, ...) divisible by p . Except for $p = 2$, the period is always an even integer (Reference 1, Theorem 4). The period is denoted by $k(p)$.

The fundamental period, for a modulus which is a power of a prime, is given by

$$k(p^r) = p^{r-1} \cdot k(p)$$

and for a composite modulus

$$k(p_1^{r_1} \cdot p_2^{r_2} \cdot \dots \cdot p_m^{r_n}) =$$

$$= \text{l.c.m.}\{k(p_1^{r_1}), k(p_2^{r_2}), \dots, k(p_n^{r_n})\}$$

(This was proved by Wall, (Reference 1, Theorems 2 and 5). However, the proof requires the hypothesis $k(p^2) \neq k(p)$, which Wall verified for all $p < 10^4$ but was unable to prove.)

As mentioned above, the fundamental period $k(m)$ is actually much smaller than the maximum, m^2 , for example,

<u>m</u>	<u>m²</u>	<u>k(m)</u>
2	4	3
3	9	8
4	16	6
5	25	20
6	36	24
7	49	16
8	64	12
9	81	24
10	100	60

The largest value of the ratio $k(m)/m$ occurs for $m = 10$. The ratio $k(m)/m = 6$ occurs again whenever m is two times a power of 5:

<u>m</u>	<u>k(m)</u>
10 = 2·5	60
50 = 2·5 ²	300
250 = 2·5 ³	1500
1250 = 2·5 ⁴	7500

When m is a prime other than 5, the fundamental period $k(m)$ never exceeds $2 \cdot (m+1)$. (See Reference 1, Theorems 6 and 7). (From this, it can be shown that 6 is the largest value of the ratio $k(m)/m$ that ever occurs). It also happens that $k(m)$ is even for all $m > 2$. (See Reference 1, Theorem 4.)

Cycles other than the fundamental $[0 : 1]$ cycle fall into three categories, with regard to their periods. Let the discriminant, D , be defined as the following function of the generators $[g_0, g_1]$:

$$D = g_1^2 - g_0 g_1 - g_0^2$$

- (a) Most cycles have periods equal to the fundamental period. These are indicated in the tables in Part 2 by the lack of a symbol attached to g_1 , and by an equals sign "=" in the summary line. Wall (Reference 1) shows that this case occurs if $\text{g.c.d.}(D, m) = 1$.
- (b) When m , g_0 and g_1 all have a common factor, d , the numbers in the cycle are all exactly d times those in the cycle with modulus (m/d) and generators $[g_1/d : g_2/d]$. For example, the $[0 : 2]$ and $[2 : 6]$ cycles with modulus 10 are essentially the same as the $[0 : 1]$ and $[1 : 3]$ cycles with modulus 5. Thus the periods of these cycles can be found earlier in the table. These cycles are indicated by an asterisk "*" in the table.

- (c) Observation for $m \leq 1023$ substantiates the following conjectures, which have not been proved for $m > 1023$.

When m is divisible by 5, the only other period that ever occurs is one-fifth the fundamental period.

When m is not divisible by 5 (this includes all primes), the only period not covered by categories (a) and (b) is one-half the fundamental period.

Both of these cases are indicated in the tables by the number sign, "#". The user can tell whether the period is one-fifth or one-half of the fundamental period if he notes whether or not the modulus is a multiple of 5.

The summary line in the table, at the end of the listing for each modulus, tells how many cycles occurred in each of these three categories. The total number of cycles is also listed.

For prime modulus values, $m = p$ (excluding $p = 2$ and $p = 5$), some further observations can be made. Since $k(p)$ is even, $k(p)/2$ is an integer. Let

$$p^* = \begin{cases} p + 1 & \text{if } p = 10x \pm 3 \\ p - 1 & \text{if } p = 10x \pm 1 \end{cases}$$

(all primes except 2 and 5 have one of these forms). Then p^* is divisible by $k(p)/2$ (See Reference 1, Theorems 6 and 7). Call the quotient $R(p)$:

$$R(p) = p^* / \left(\frac{1}{2} k(p)\right)$$

Note that $R(p)$ is defined only when p is a prime other than 2 or 5.

We observe (verified for primes up to 4409; not proved) that when $p = 10x + 3$, $R(p)$ is odd; when $p = 10x + 1$, $R(p)$ is even.

When $k(p)$ is not a multiple of 4, the latter case occurs: $p = 10x + 1$, and $R(p)$ is even (see Reference 1, corollary to Theorem 7). In this case, there are R cycles of period $k(p)/2$ and there are $m \cdot R/2$ cycles of period $k(p)$ (Reference 1, Theorem 11; verified up to 1023).

When $k(p)$ is a multiple of 4, all cycles have period $k(p)$ (Reference 1, Theorem 12, corollary 1), and there are $2(p^2 - 1)/(R \cdot k(p))$ of them. In this case, p may be $10x + 1$ or $10x + 3$, and R will be even or odd accordingly.

We observe (verified up to 1023) a further special case when R is 1 (in which case $p = 10x + 3$ and, in fact, $\text{mod}(m, 20)$ is always 3 or 7, never 13 or 17); then the lexicographic ordering of the generators produces all cycles with $g_0 = 0$ and g_1 taking on the consecutive values from 1 to $(m + 1) \cdot R/2$.

The value of R is usually 1 or 2, but is sometimes much larger. We note, for example, the following large values of R (some of which are mentioned in Reference 1):

<u>p</u>	<u>R (even values)</u>	<u>p</u>	<u>R (odd values)</u>
29	4	47	3
139	6	233	9
199	18	1087	17
461	20	1103	23
521	40	1597	47
2161	54		
3571	210		
9349	246		

Two-Dimensional Patterns

An interesting way to represent a Fibonacci residue cycle, with modulus m , is as a pattern in two-dimensional space. (This representation was suggested to me by David Stonerod, Lawrence Hall of Science.) Every pair of consecutive terms in a cycle can be plotted at one of the points in the discrete plane set

$$\{(x,y) : x = 0, 1, 2, \dots, (m-1); y = 0, 1, 2, \dots, (m-1)\}$$

These points all lie in a square with its lower left corner at the origin and its upper right corner at $(x = m-1; y = m-1)$. If we plot all the cycles, for the same modulus, together one one grid, we will fill all m^2 grid points. However, if we plot each cycle separately some aesthetically pleasing patterns emerge. These patterns, for values of m between 2 and 99, are reproduced in Part 1.

Each pattern is repeated three times, both vertically and horizontally, to emphasize the symmetries and other characteristics of the pattern. The coordinate origin $(x = 0, y = 0)$ is at the center of the plot in each case. Thus, the range of each pattern is from approximately $(- 3m/2)$ to $(+ 3m/2)$ in both the horizontal and vertical directions.

Each page is labelled with a "page number" consisting of the modulus value, followed by a decimal digit that indicates continuation of the same modulus onto additional pages. Each pattern is labelled with three integers, to specify the generators $[g_0 : g_1]$ and the period. This makes it possible to reconstruct any of the patterns manually.

Note that some of the generators listed in the Part 2 tables have no corresponding plots in Part 1. First of all, the generators marked "*" are not

plotted. In these cases, where the modulus and both generators have a factor in common, the plot would just be a repetition, at a different scale, of a pattern already shown (for the smaller modulus, obtained by removing the common factor).

Next, there are several hundred patterns that agree with those shown for 180° rotation. Let $g' = \begin{cases} m - g & \text{if } g > 0 \\ 0 & \text{if } g = 0 \end{cases}$.

Then, if g is an integer between 0 and $(m - 1)$, so is g' . We see that, if (g_0', g_1') has appeared as a consecutive pair in an earlier cycle, then $[g_0' : g_1']$ will generate g_n' (i.e., the cycle obtained by subtracting each term of the $[g_0 : g_1]$ cycle from m , except zero terms), since

$$g_{n+1}' = \text{mod}(g_n' + g_{n-1}', m).$$

The patterns omitted for this reason are listed in Table 1.

Removing these redundant patterns, we still find a few duplicates. This final small group of patterns omitted from Part 1 is listed in Table 2.

References

1. D. D. Wall, Fibonacci series modulo m, American Mathematical Monthly, June - July, 1960, pages 525-532.
2. Brother U. Alfred, Relation of zero to period in the Fibonacci sequence modulo a prime, American Mathematical Monthly, October 1964, pages 897-899.
3. Brother U. Alfred, Primes which are factors of all Fibonacci sequences, Fibonacci Quarterly, Feb. 1964, pages 33-38.

Table 1.

List of generators for patterns not plotted, because they are duplicates of earlier patterns except for 180° rotation.

*
MODULUS 4

[0: 3]

MODULUS 8

[0: 3] [1: 4]

MODULUS 11

[0: 6] [0: 7] [0: 8] [0: 9] [0:10] [2: 8]

MODULUS 12

[0: 7] [1: 5]

MODULUS 15

[0: 4] [0: 8] [1:13] [2: 6]

MODULUS 16

[0: 5] [0: 7] [1: 4] [1:11]

MODULUS 19

[0:10] [0:11] [0:12] [0:13] [0:14] [0:15] [0:16] [0:17] [0:18] [2:10]

MODULUS 20

[0:11] [0:13] [1:18] [3:14]

MODULUS 21

[0: 8] [0:11] [0:16] [1: 9] [1:15] [1:16] [1:19] [2: 5] [2: 8] [2: 9]
[2:18] [3:17]

MODULUS 22

[0:13] [0:15] [0:17] [0:19] [0:21] [2:19]

MODULUS 24

[0: 7] [0:11] [1: 5] [1: 8] [1:11] [1:17] [1:19] [2: 5]

MODULUS 28

[0:15] [0:17] [0:19] [1: 9] [1:10] [2: 5]

MODULUS 29

[0:15] [0:16] [0:17] [0:18] [0:19] [0:20] [0:21] [0:22] [0:23] [0:24]
[0:25] [0:26] [0:27] [0:28] [1:13] [2: 5] [2: 7] [2: 8] [2:16] [2:23]
[2:24] [2:26] [3: 7] [3:15] [3:17] [3:21] [4: 9] [4:19] [5:11] [8:18]

MODULUS 30

[0:13] [0:19] [1:13] [2:21]

MODULUS 31

[0:16] [0:17] [0:18] [0:19] [0:20] [0:21] [0:22] [0:23] [0:24] [0:25]
[0:26] [0:27] [0:28] [0:29] [0:30] [3:26]

MODULUS 32

[0: 9] [0:11] [0:13] [0:15] [1:11] [1:13] [1:19] [1:27]

*

*

MODULUS 33

[0: 7] [0:10] [0:14] [0:17] [0:20] [1: 9] [1:11] [1:19] [2: 8] [2:13]
[2:18] [3: 7]

MODULUS 35

[0:11] [0:16] [0:17] [0:22] [0:23] [0:29] [1:28] [1:33] [2:16] [2:31]
[3:24] [4:27]

MODULUS 36

[0:19] [0:23] [0:25] [1:11] [1:19] [1:26] [1:29] [1:34] [2: 5] [2: 7]
[2: 9] [2:13] [2:29] [2:33] [3:19] [3:32] [4: 9] [5:13]

MODULUS 38

[0:21] [0:23] [0:25] [0:27] [0:29] [0:31] [0:33] [0:35] [0:37] [1:16]
[1:20] [1:22] [1:35] [2: 9] [2:21] [2:25] [2:29] [3: 8] [3:16] [3:23]
[3:27] [3:31] [3:34] [4: 9] [4:15] [4:29] [5:12] [5:19] [5:25] [5:30]

MODULUS 39

[0: 8] [0:11] [0:16] [0:19] [0:22] [0:25] [1:16] [1:17] [1:22] [1:30]
[2: 7] [2:32]

MODULUS 40

[0:11] [0:19] [0:23] [0:33] [1:11] [1:19] [1:27] [1:35] [1:38] [2:11]
[3:14] [3:24] [3:34] [4:17] [6:33] [11:23]

MODULUS 42

[0:19] [0:25] [0:29] [1: 9] [1:15] [1:16] [1:19] [2: 5] [2: 9] [2:29]
[2:39] [3:17]

MODULUS 44

[0:23] [0:25] [0:27] [0:29] [0:31] [0:35] [0:37] [0:39] [0:41] [0:43]
[1:19] [1:21] [2:15] [2:17] [2:19] [2:37] [2:39] [2:41] [3:10] [3:18]
[3:20] [3:24] [3:29] [4:11]

MODULUS 45

[0:17] [0:19] [0:22] [0:29] [0:31] [0:38] [1:28] [1:33] [1:43] [2:21]
[2:36] [2:41]

MODULUS 48

[0: 7] [0:23] [0:29] [0:35] [1: 8] [1:18] [1:20] [1:25] [1:27] [1:28]
[1:34] [1:43] [2: 5] [2: 9] [2:17] [2:37] [3: 7] [3:10] [3:11] [3:17]
[3:22] [3:26] [3:32] [3:35] [3:40] [4:13] [4:21] [4:33] [4:35] [5:16]
[5:19] [7:39]

MODULUS 51

[0:10] [0:13] [0:16] [0:20] [0:23] [0:26] [0:29] [0:32] [1:21] [1:23]
[1:24] [1:40] [1:43] [2: 8] [2:12] [4:16]

MODULUS 52

[0:27] [0:29] [0:31] [0:33] [0:35] [0:37] [1: 7] [1:23] [1:31] [1:42]
[2:21] [3: 7]

MODULUS 55

[0: 8] [0:16] [0:19] [0:21] [0:24] [0:27] [0:29] [0:32] [0:37] [0:42]
 [1:12] [1:22] [1:43] [1:53] [2: 5] [2:14] [2:19] [2:22] [2:23] [2:24]
 [2:26] [2:30] [2:33] [2:35] [2:38] [2:41] [2:44] [2:51] [2:52] [3: 7]
 [3: 8] [3: 9] [3:15] [3:18] [3:20] [3:21] [3:24] [3:25] [3:36] [3:40]
 [3:42] [3:45] [3:47] [3:51] [4:10] [4:11] [4:12] [4:21] [4:28] [4:33]
 [4:36] [4:41] [4:44] [4:48] [5:12] [5:17] [5:22] [5:24] [5:32] [6:18]
 [6:29] [6:35] [6:36] [6:42] [7:21] [7:31] [7:36] [7:42] [8:17] [8:20]
 [8:22] [8:28]

MODULUS 56

[0:15] [0:19] [0:23] [0:27] [0:31] [0:45] [1: 9] [1:16] [1:29] [1:31]
 [1:35] [1:38] [1:43] [1:47] [1:54] [2: 5] [2: 9] [2:13] [3: 7] [3: 9]
 [3:22] [3:30] [3:31] [5:12]

MODULUS 57

[0:11] [0:14] [0:17] [0:22] [0:25] [0:28] [0:31] [0:34] [0:37] [1:11]
 [1:16] [1:20] [1:27] [1:53] [2: 8] [2:10] [2:19] [3: 8] [4:14] [4:15]

MODULUS 58

[0:31] [0:33] [0:35] [0:37] [0:39] [0:41] [0:43] [0:45] [0:47] [0:49]
 [0:51] [0:53] [0:55] [0:57] [1:13] [2: 5] [2: 7] [2:23] [2:37] [2:45]
 [2:53] [2:55] [3: 7] [3:15] [3:17] [3:21] [4: 9] [4:19] [5:11] [8:47]

MODULUS 59

[0:30] [0:31] [0:32] [0:33] [0:34] [0:35] [0:36] [0:37] [0:38] [0:39]
 [0:40] [0:41] [0:42] [0:43] [0:44] [0:45] [0:46] [0:47] [0:48] [0:49]
 [0:50] [0:51] [0:52] [0:53] [0:54] [0:55] [0:56] [0:57] [0:58] [2:52]

MODULUS 60

[0:13] [0:19] [0:23] [0:29] [1:15] [1:19] [1:34] [1:43] [1:51] [1:58]
 [2:21] [2:51] [3:14] [6:13] [7:46] [8:19]

MODULUS 62

[0:33] [0:35] [0:37] [0:39] [0:41] [0:43] [0:45] [0:47] [0:49] [0:51]
 [0:53] [0:55] [0:57] [0:59] [0:61] [1:21] [1:25] [1:32] [1:34] [1:51]
 [1:52] [1:54] [1:56] [2: 5] [2:21] [2:27] [2:29] [2:43] [3:17] [3:18]
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 [4:51] [4:57] [5:20] [5:26] [5:44] [5:50] [6:21] [7:54]

MODULUS 63

[0: 8] [0:16] [0:17] [0:25] [0:26] [0:32] [0:34] [0:40] [0:41] [1: 9]
 [1:34] [1:36] [1:37] [1:40] [1:45] [1:48] [1:49] [1:51] [1:57] [1:58]
 [1:61] [2: 5] [2: 7] [2: 8] [2:18] [2:26] [2:30] [2:39] [2:51] [2:56]
 [2:60] [3:17] [3:35] [3:38] [3:56] [3:59]

MODULUS 64

[0:17] [0:19] [0:21] [0:23] [0:25] [0:27] [0:29] [0:31] [1:11] [1:20]
 [1:27] [1:29] [1:35] [1:43] [1:51] [1:59]

MODULUS 66

[0:17] [0:25] [0:31] [0:37] [0:43] [1: 9] [1:11] [1:19] [2:13] [2:19]
 [2:29] [3: 7]

MODULUS 68

[0:35] [0:37] [0:39] [0:41] [0:43] [0:45] [0:47] [0:49] [1:15] [1:19]
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[2:45] [2:49] [2:51] [2:53] [2:57] [2:59] [2:61] [2:65] [3: 7] [3:10]
[3:16] [3:19] [3:22] [3:23] [3:24] [3:28] [3:38] [3:42] [3:45] [3:56]
[3:59] [4:11] [4:63] [5:16] [5:46] [5:54] [6:17] [6:21]

MODULUS 69

[0:25] [0:28] [0:31] [0:34] [0:37] [0:40] [0:43] [0:47] [0:50] [0:53]
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[2:47] [2:53] [2:57] [2:61] [2:62] [2:63] [3:29] [3:35] [4:25] [4:45]
[4:57] [4:64] [5:16] [5:55]

MODULUS 70

[0:17] [0:27] [0:29] [0:37] [0:39] [0:51] [1:28] [1:33] [2:31] [2:51]
[3:24] [4:27]

MODULUS 71

[0:36] [0:37] [0:38] [0:39] [0:40] [0:41] [0:42] [0:43] [0:44] [0:45]
[0:46] [0:47] [0:48] [0:49] [0:50] [0:51] [0:52] [0:53] [0:54] [0:55]
[0:56] [0:57] [0:58] [0:59] [0:60] [0:61] [0:62] [0:63] [0:64] [0:65]
[0:66] [0:67] [0:68] [0:69] [0:70] [7:63]

MODULUS 72

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[3:38] [3:40] [3:50] [3:55] [3:58] [3:59] [3:62] [3:67] [3:68] [4: 9]
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MODULUS 75

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MODULUS 76

[0:39] [0:41] [0:43] [0:45] [0:47] [0:49] [0:51] [0:53] [0:55] [0:59]
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[3:35] [3:36] [3:39] [3:42] [3:48] [3:50] [3:54] [3:56] [3:62] [3:69]
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[5:56] [5:57] [5:60] [5:62] [5:63] [5:67] [5:68] [5:70] [6:13] [6:15]
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MODULUS 77

[0: 9] [0:18] [0:20] [0:27] [0:29] [0:31] [0:36] [0:38] [0:40] [0:43]
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 [3:40] [3:52] [4:19] [4:47] [4:56] [6:18]

MODULUS 78

[0:19] [0:25] [0:29] [0:35] [0:41] [0:47] [1:16] [1:17] [1:22] [1:30]
 [2: 7] [2:35]

MODULUS 79

[0:40] [0:41] [0:42] [0:43] [0:44] [0:45] [0:46] [0:47] [0:48] [0:49]
 [0:50] [0:51] [0:52] [0:53] [0:54] [0:55] [0:56] [0:57] [0:58] [0:59]
 [0:60] [0:61] [0:62] [0:63] [0:64] [0:65] [0:66] [0:67] [0:68] [0:69]
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MODULUS 80

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 [3:24] [3:49] [3:54] [3:64] [3:74] [4:27] [6:33] [8:19] [9:42] [9:62]
 [11:23] [11:28]

MODULUS 84

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 [2:81] [3: 7] [3: 8] [3:17] [3:19] [3:34] [3:38] [3:46] [3:59] [4:21]
 [4:45] [4:55] [4:63] [4:73] [4:75] [5:66] [7:15] [8:43]

MODULUS 87

[0:16] [0:19] [0:22] [0:25] [0:28] [0:32] [0:35] [0:38] [0:41] [0:44]
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 [2:37] [2:42] [2:45] [2:52] [2:54] [2:55] [2:70] [2:82] [3: 7] [3:17]
 [3:22] [3:44] [3:50] [4: 9] [4:12] [4:14] [4:19] [4:29] [4:32] [4:77]
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MODULUS 88

[0:23] [0:25] [0:27] [0:29] [0:31] [0:35] [0:37] [0:39] [0:41] [0:43]
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MODULUS 90

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MODULUS 91

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 [1:42] [1:49] [1:59] [1:68] [1:75] [1:85] [2: 5] [2: 6] [2:23] [2:35]
 [2:40] [2:66] [2:79] [3:17] [3:22] [4:14]

MODULUS 92

[0:47] [0:49] [0:51] [0:53] [0:55] [0:57] [0:59] [0:61] [0:63] [0:65]
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[1:83] [2: 5] [2:11] [2:17] [2:21] [2:25] [2:27] [2:29] [2:31] [2:37]
[2:39] [2:53] [2:65] [2:69] [2:81] [2:87] [2:89] [3:20] [3:22] [3:23]
[3:32] [3:36] [3:41] [3:47] [3:49] [3:58] [3:65] [3:68] [3:75] [3:81]
[3:83] [4:13] [4:27] [4:63] [4:77] [4:79] [4:81] [5:13] [5:25] [5:47]
[5:51] [5:62] [5:81] [6:81] [7:21] [7:82]

MODULUS 93

[0:17] [0:20] [0:23] [0:26] [0:29] [0:34] [0:37] [0:40] [0:43] [0:46]
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[1:44] [1:51] [1:54] [2:11] [2:16] [2:27] [2:29] [2:41] [2:43] [3:16]
[3:26] [4:51]

MODULUS 95

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[1:78] [1:88] [1:93] [2: 6] [2:10] [2:46] [2:61] [2:81] [2:86] [3:14]
[3:54] [3:89] [4:12] [4:67] [4:72] [6:18] [7:56] [7:81] [7:86] [8:64]

MODULUS 96

[0:25] [0:29] [0:31] [0:35] [0:37] [0:41] [0:43] [0:47] [1: 8] [1:18]
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[1:75] [1:76] [1:82] [1:91] [2: 5] [2: 9] [2:17] [2:29] [2:33] [2:37]
[2:45] [3: 7] [3:10] [3:11] [3:17] [3:22] [3:26] [3:32] [3:35] [3:40]
[3:55] [3:58] [3:59] [3:65] [3:70] [3:74] [3:80] [3:83] [3:88] [4:13]
[4:21] [4:33] [4:35] [4:39] [5:16] [5:19] [5:64] [5:67] [5:73] [5:78]
[7:39] [7:67] [7:87] [10:29]

MODULUS 99

[0:10] [0:20] [0:31] [0:32] [0:40] [0:41] [0:43] [0:50] [0:52] [0:53]
[0:61] [0:62] [0:70] [0:71] [0:80] [1:11] [1:19] [1:36] [1:57] [1:58]
[1:75] [1:76] [2: 5] [2: 8] [2:13] [2:19] [2:26] [2:27] [2:41] [2:42]
[2:51] [2:62] [2:72] [3: 7] [4:34] [4:45]

Table 2.

List of generators for other duplicated patterns.

MODULUS 18

[1: 9] [1:12] [1:13]

MODULUS 34

[1:17] [1:20] [1:25] [1:26] [1:26] [1:30] [1:31] [2:27]

MODULUS 41

[1:11] [1:23] [1:26] [1:28] [1:33] [1:35] [1:36] [1:37] [2:22] [2:25]
[2:33]

MODULUS 46

[1:23] [1:26] [1:28] [1:29] [1:31] [1:33] [1:35] [1:38] [1:43] [2:41]
[3:34]

MODULUS 47

[1:18] [1:26] [1:27] [1:28] [1:29] [1:34] [1:35] [1:36] [1:38] [1:40]
[1:41] [1:42] [1:43] [1:44] [2:29] [2:31] [2:32] [2:33] [2:37] [2:38]
[3:31] [3:32] [3:35]

MODULUS 54

[1:11] [1:14] [1:30] [1:31] [1:33] [1:40] [1:43] [1:46] [1:48]

MODULUS 61

[1:33] [1:34] [1:35] [1:37] [1:38] [1:39] [1:41] [1:44] [1:47] [1:49]
[1:53] [1:54] [1:56] [2:45] [2:46] [2:47]

MODULUS 65

[1:10] [1:17] [1:22] [1:31] [1:37] [1:38] [1:50] [1:53] [1:58] [2:41]
[2:56] [4:52]

MODULUS 82

[1:11] [1:23] [1:26] [1:28] [1:33] [1:35] [1:36] [1:37] [2:27] [2:49]
[2:51]

MODULUS 85

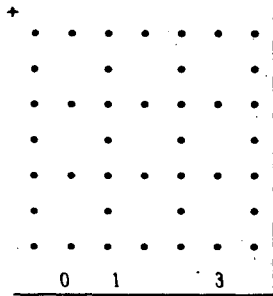
[1:15] [1:24] [1:32] [1:45] [1:53] [1:55] [1:60] [1:68] [1:72] [1:73]
[1:77] [1:78] [2:61] [2:66] [3:64] [3:74]

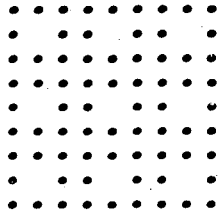
MODULUS 89

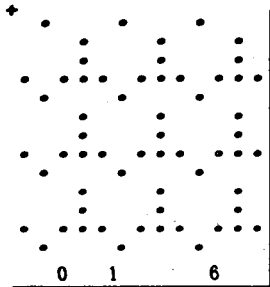
[1:20] [1:47] [1:48] [1:49] [1:50] [1:51] [1:52] [1:53] [1:54] [1:58]
[1:60] [1:62] [1:64] [1:65] [1:67] [1:68] [1:69] [1:71] [1:72] [1:74]
[1:75] [1:76] [1:78] [1:79] [1:80] [1:81] [1:82] [1:83] [1:84] [1:85]
[1:86] [2:40] [2:46] [2:49] [2:50] [2:56] [2:60] [2:61] [2:64] [2:66]
[2:67] [2:69] [2:73] [2:76] [2:77] [2:78] [2:79] [2:80] [2:82] [2:83]
[2:84] [3:41] [3:47] [3:56] [3:59] [3:62] [3:63] [3:67] [3:73] [3:75]
[3:78] [4:48] [4:54] [4:71] [4:79] [5:58] [5:74] [5:77]

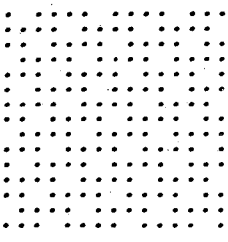
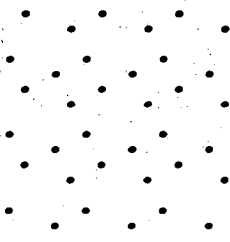
MODULUS 94

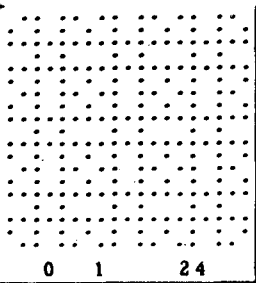
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[1:41] [1:42] [1:43] [1:44] [2:31] [2:59] [2:63] [2:67] [2:79] [2:85]
[3:31] [3:32] [3:35]

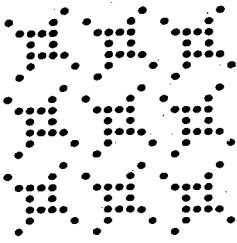
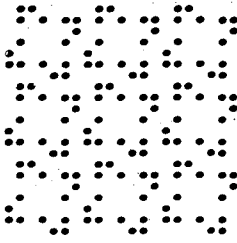
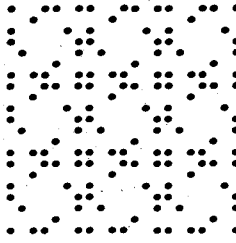
 <p>0 1 3</p>				
				PAGE 2.1

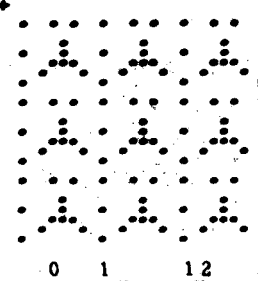
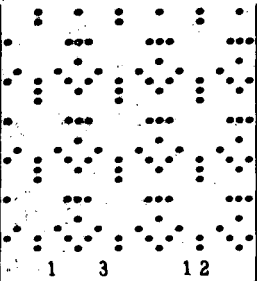
 0 1 8				

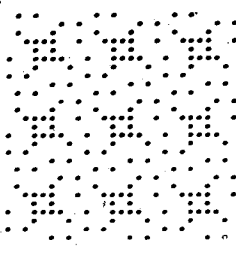
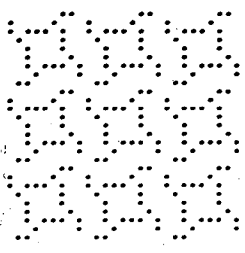
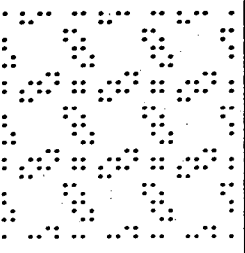


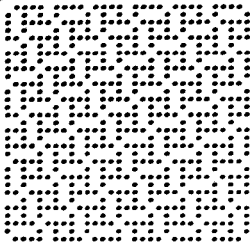
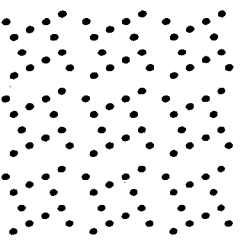
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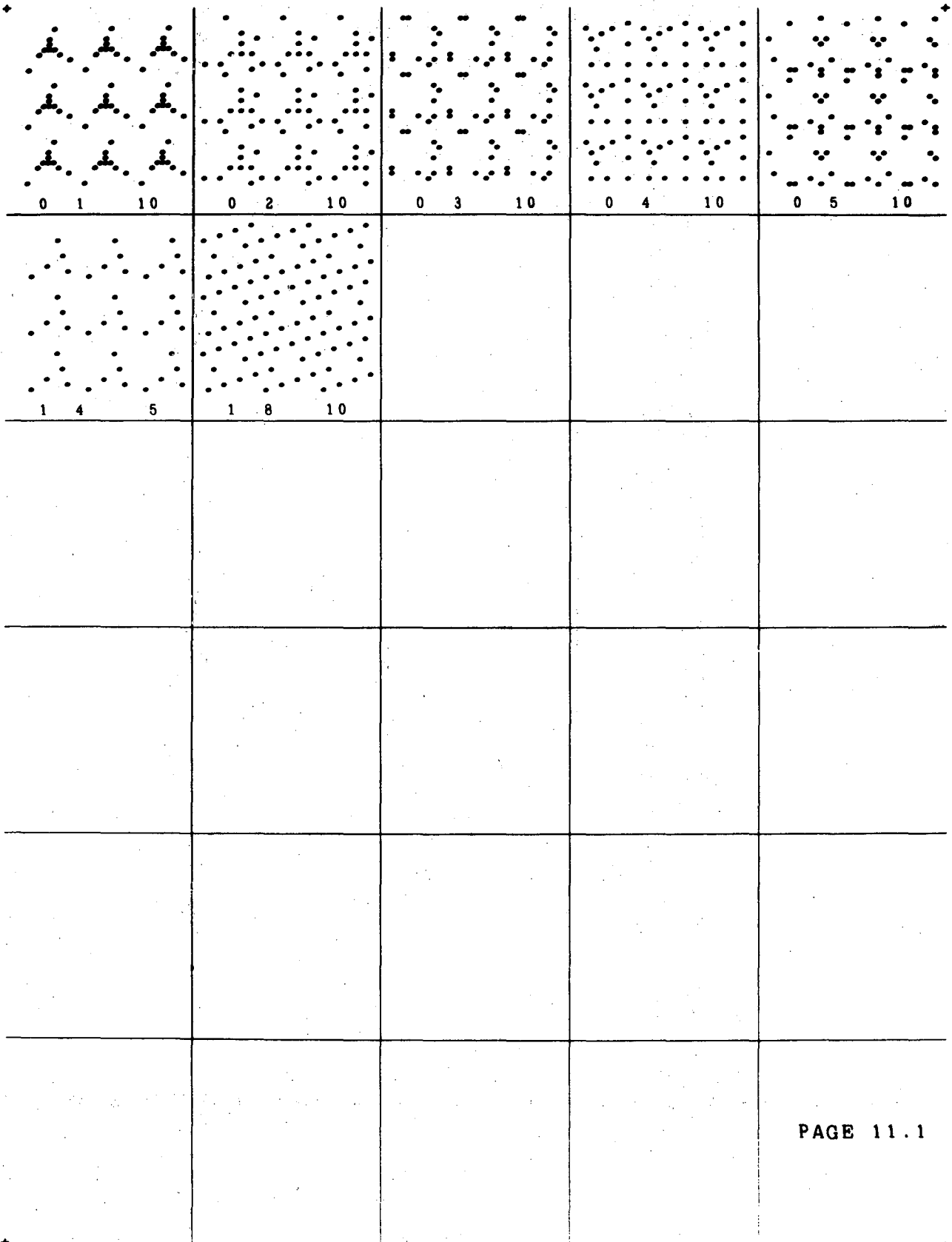
 0 1 24				
				PAGE 6.1

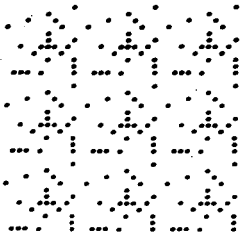
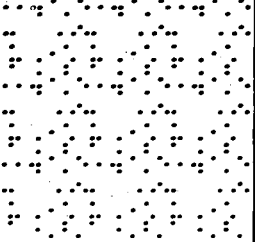
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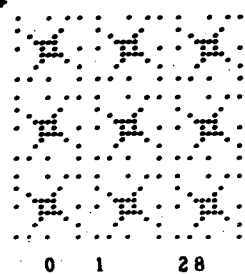
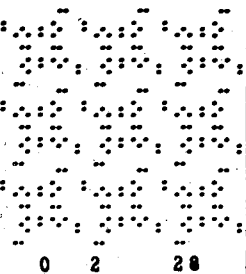
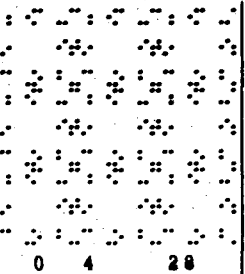
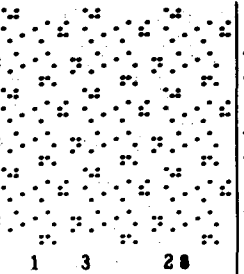
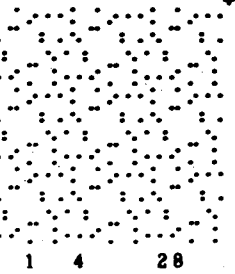
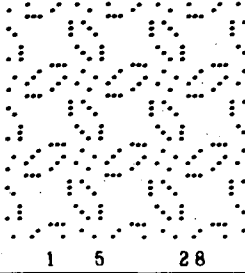
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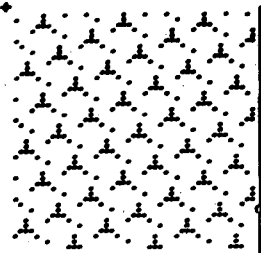
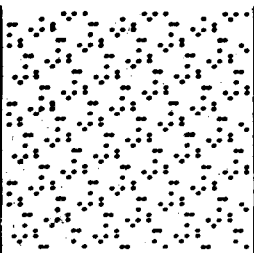
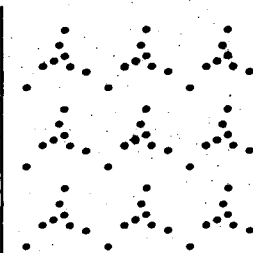
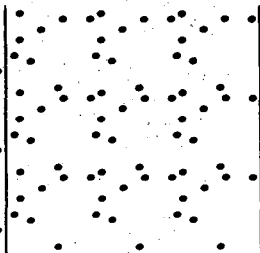
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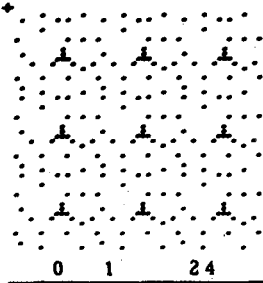
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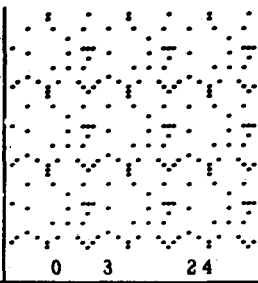
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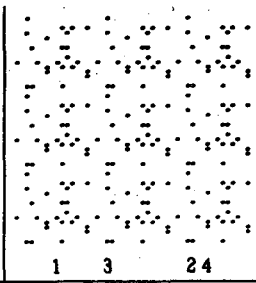
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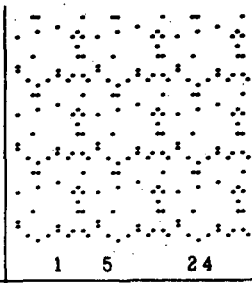
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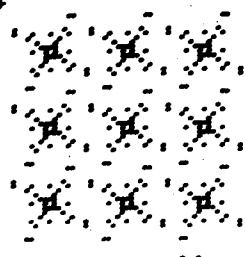
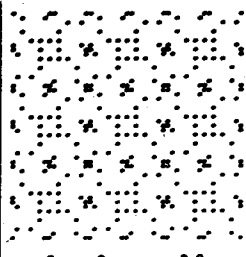
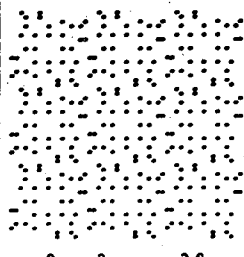
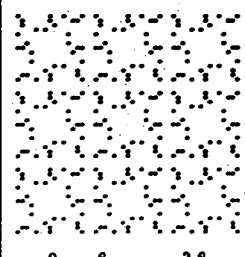
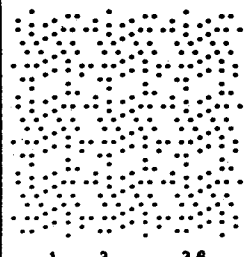
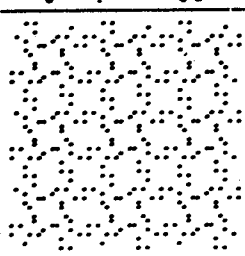
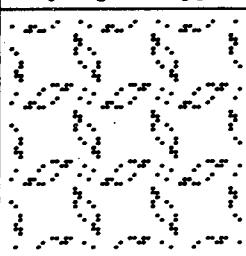
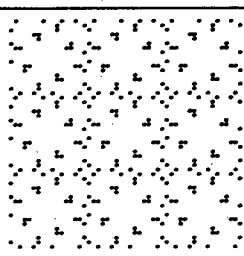
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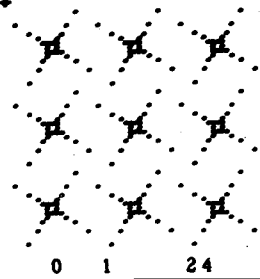
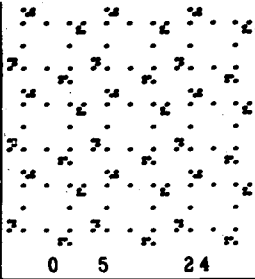
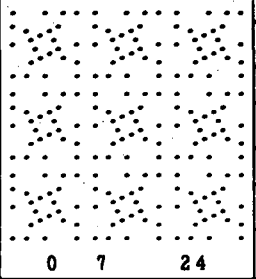
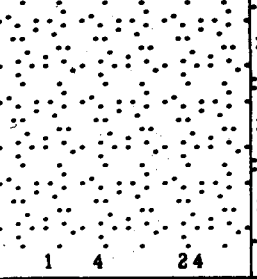
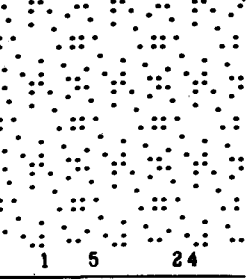
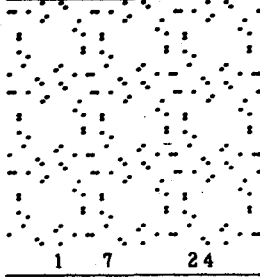


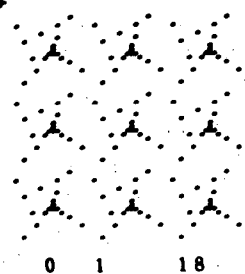
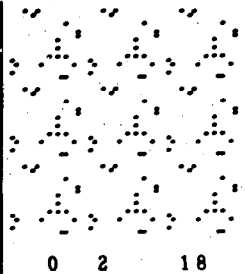
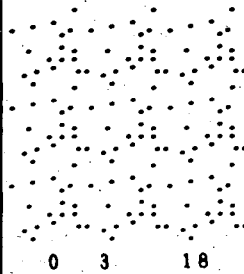
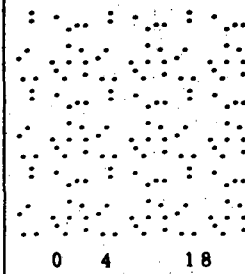
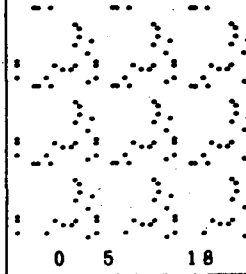
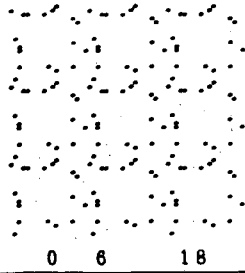
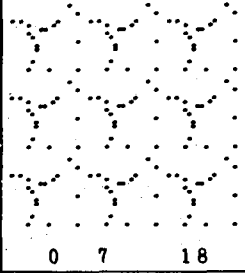
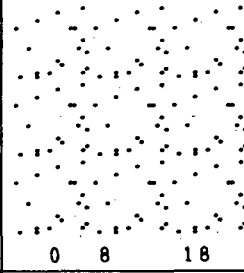
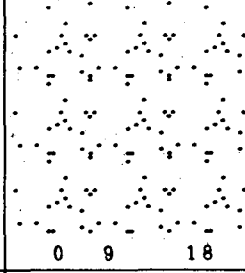
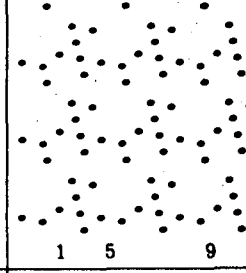
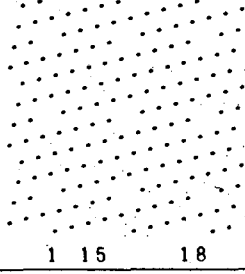
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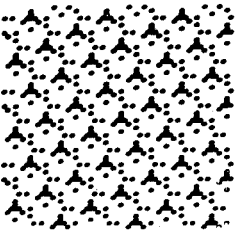
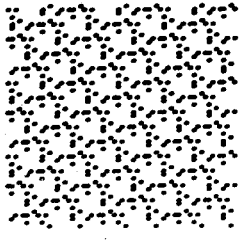
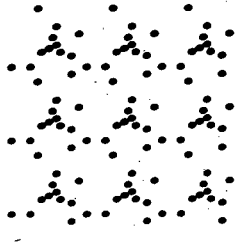
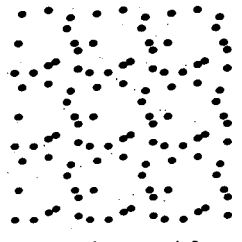


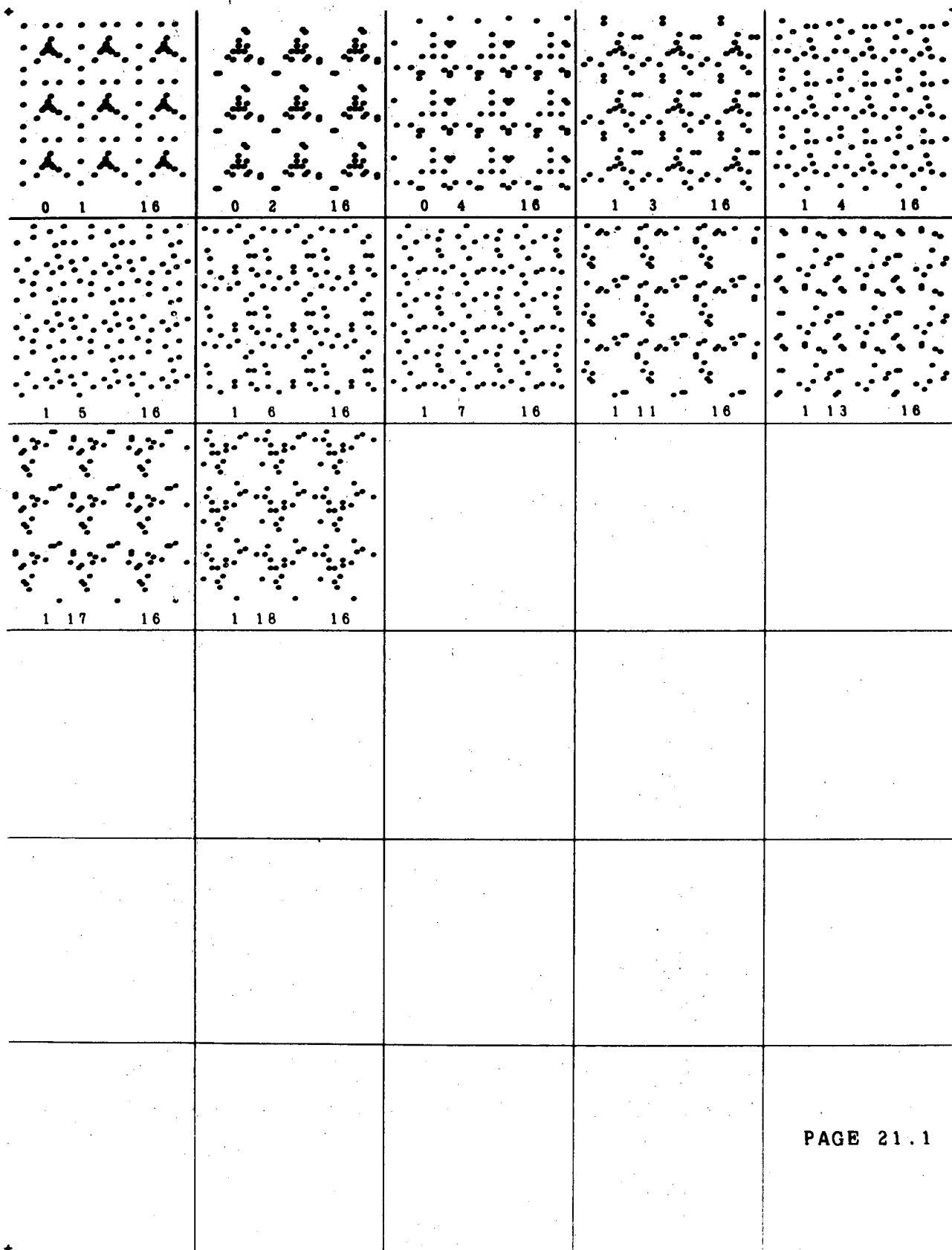
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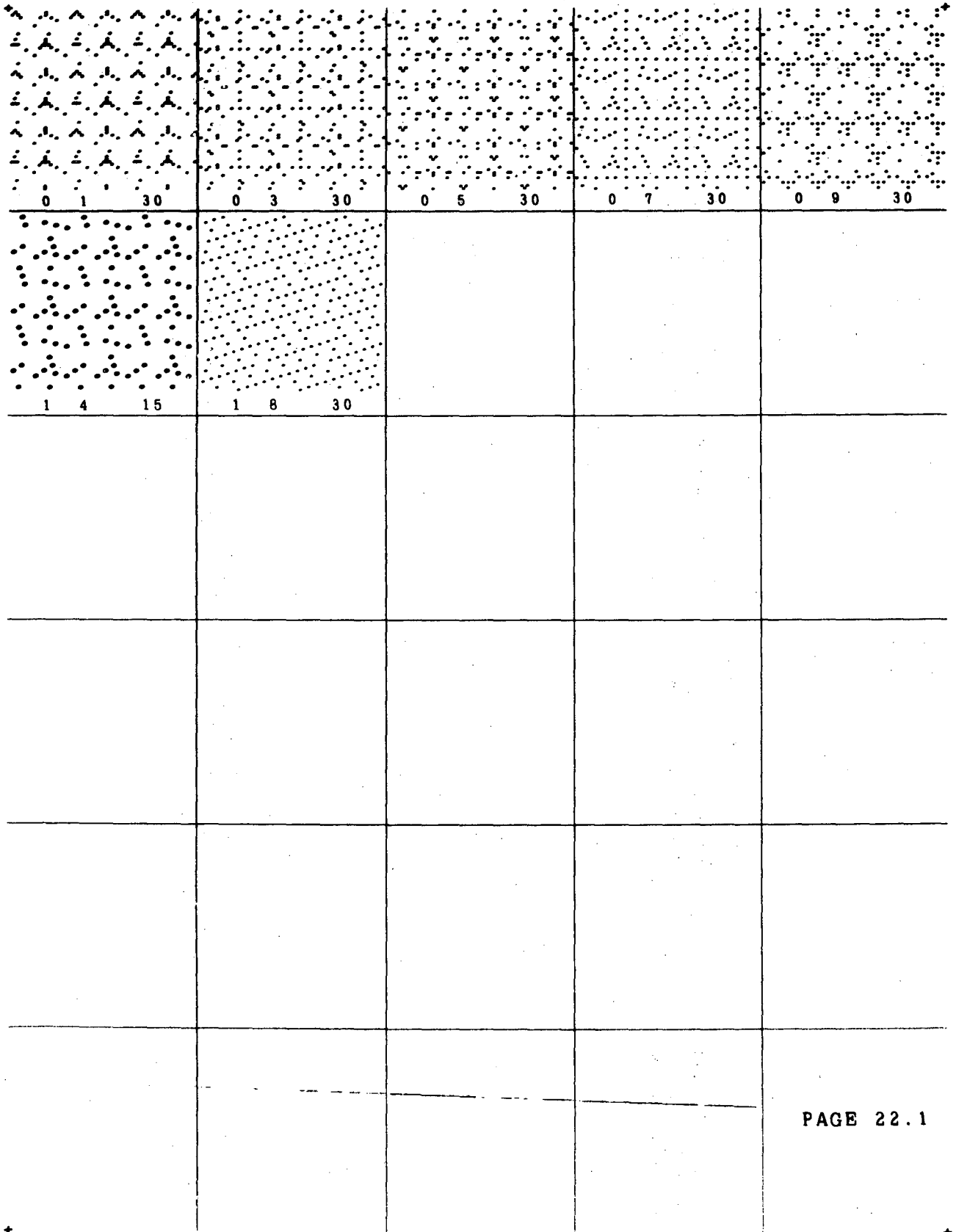
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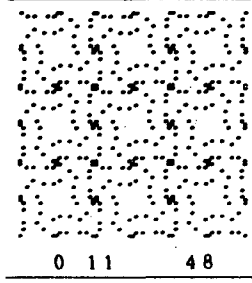
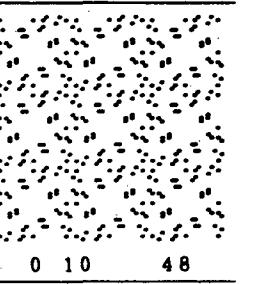
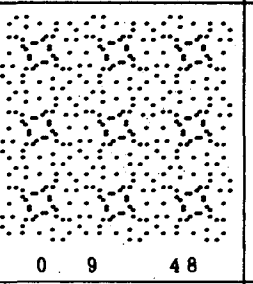
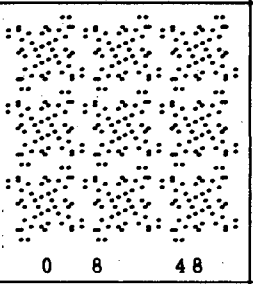
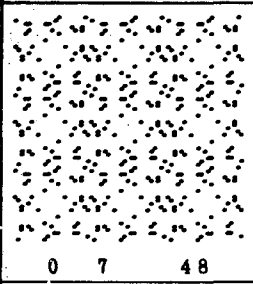
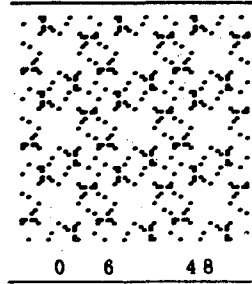
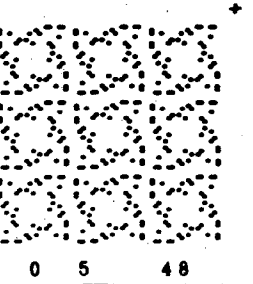
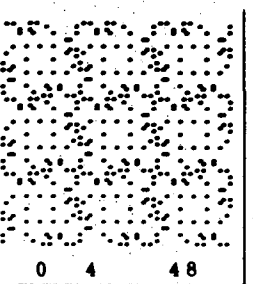
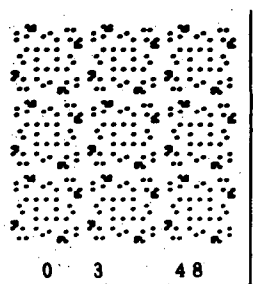
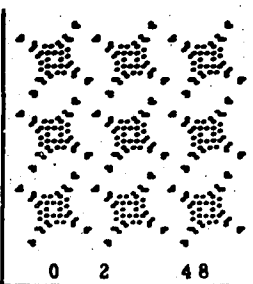
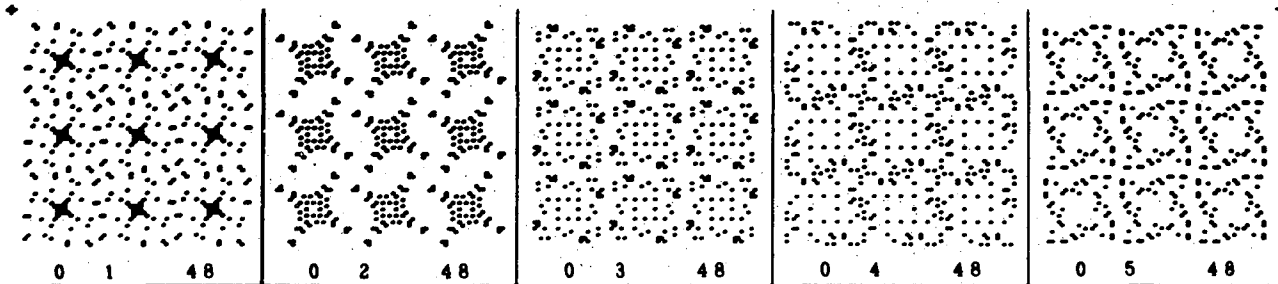
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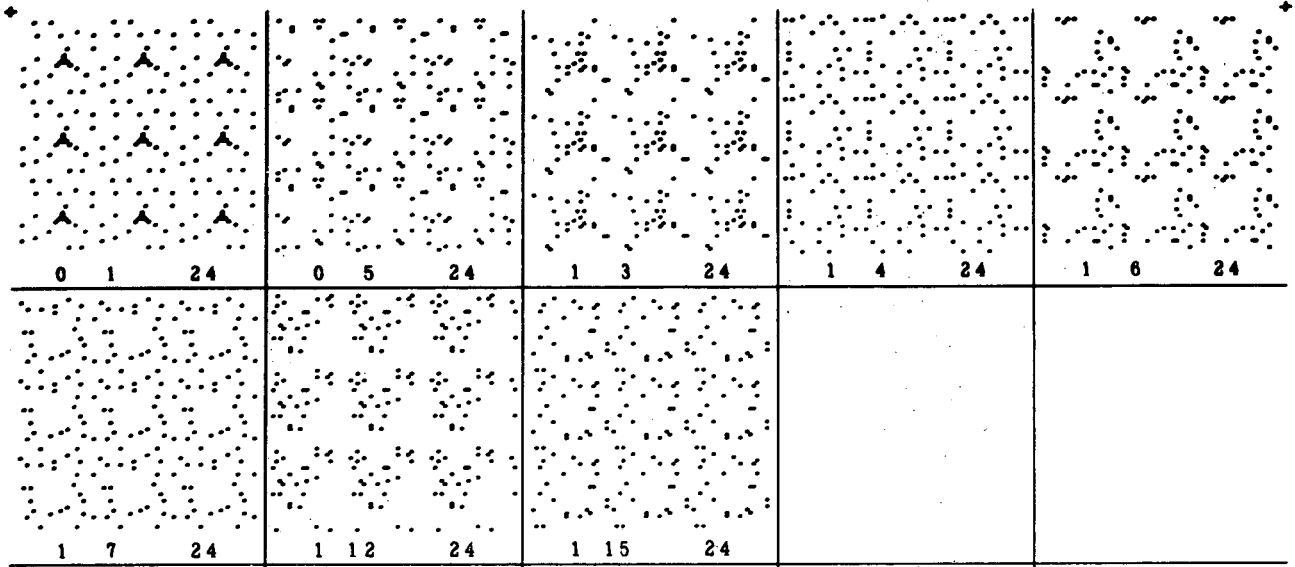
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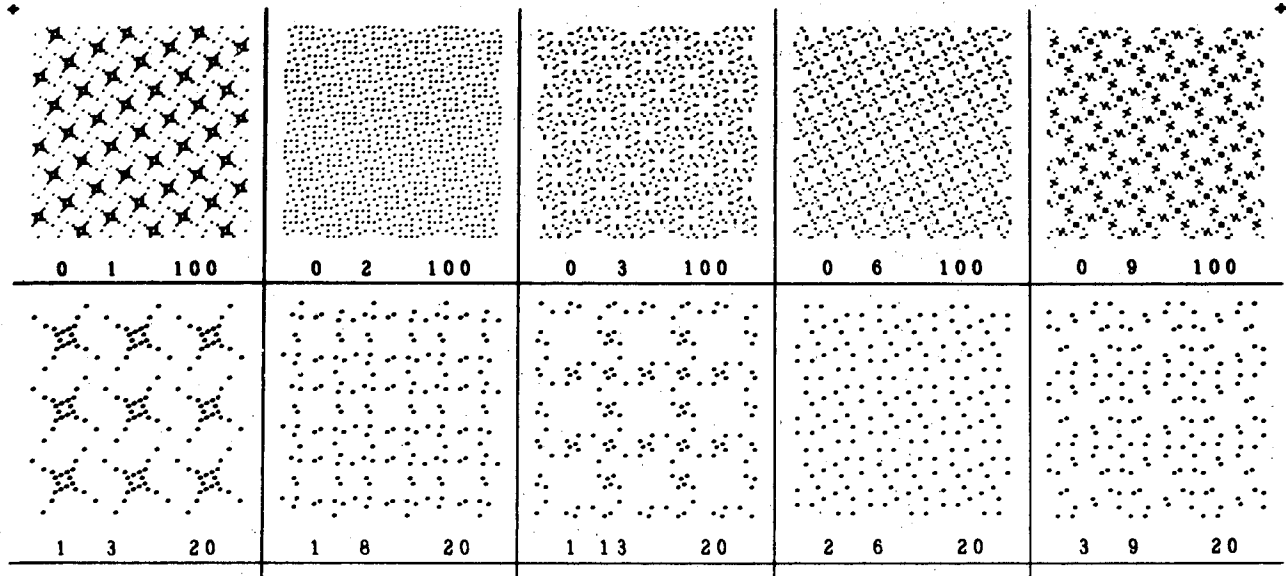
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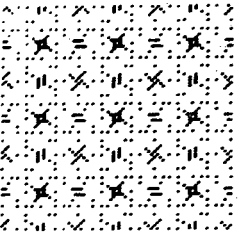
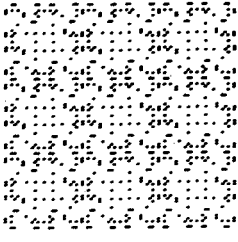
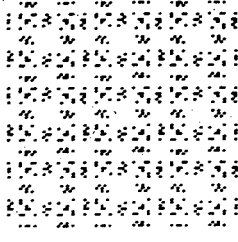
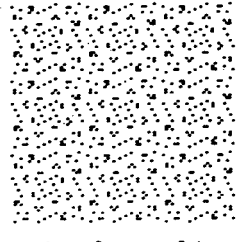
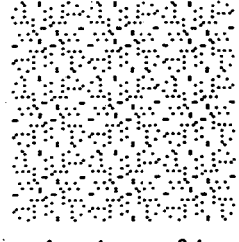
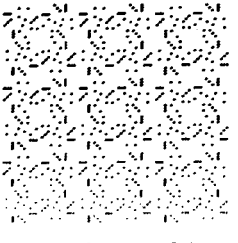


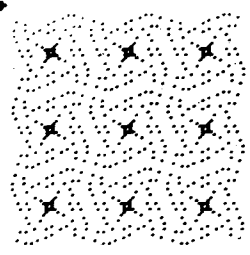
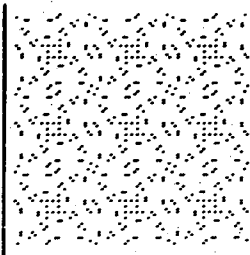
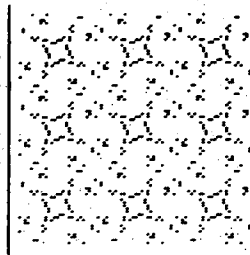
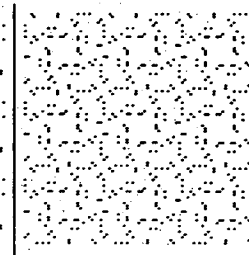
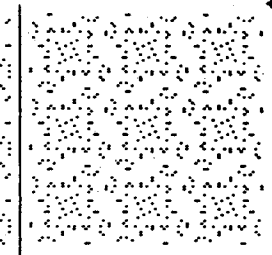
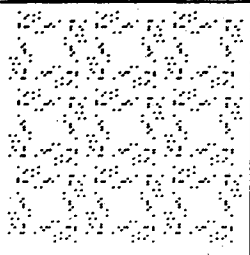
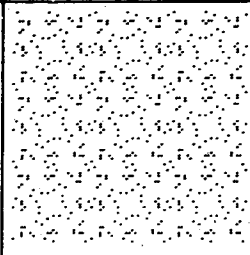
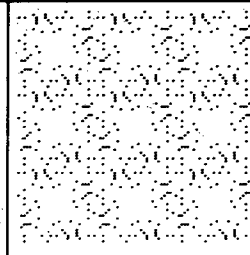
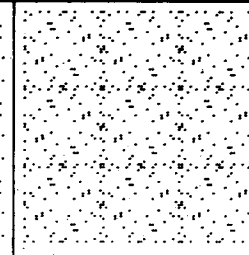


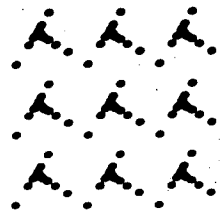
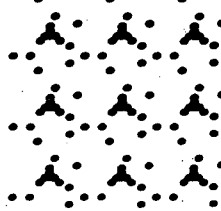
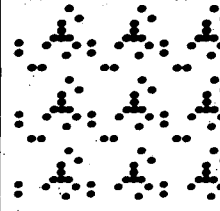
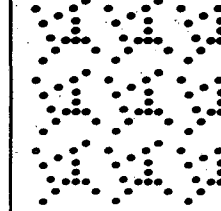
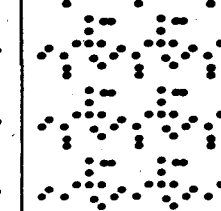
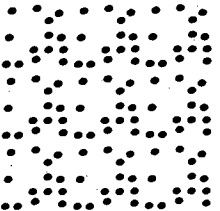
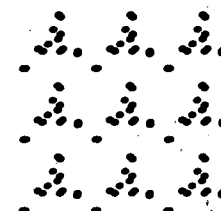
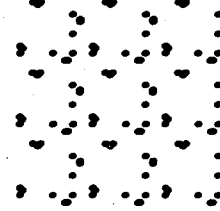
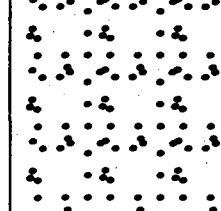
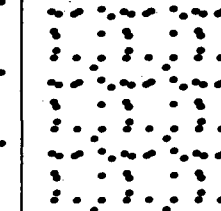
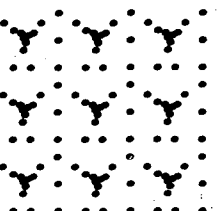
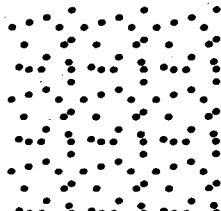
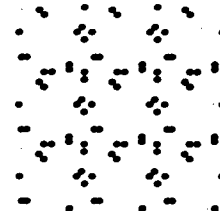
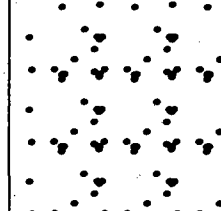
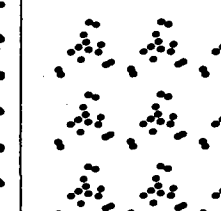
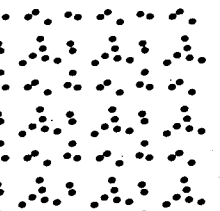
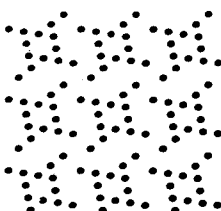
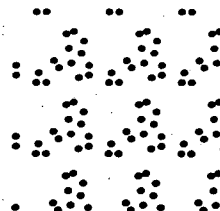
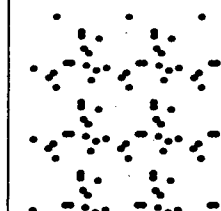
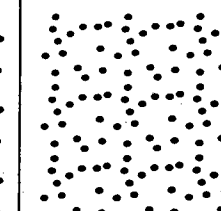
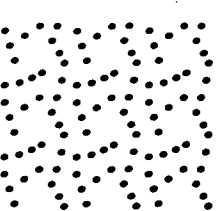
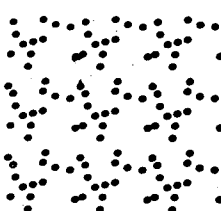
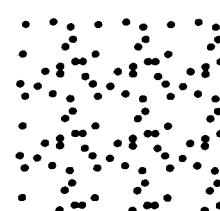
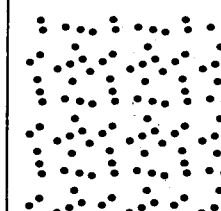
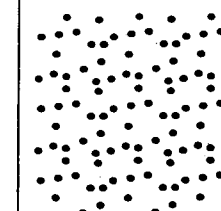
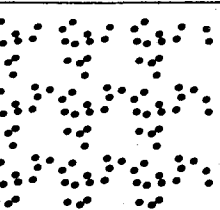
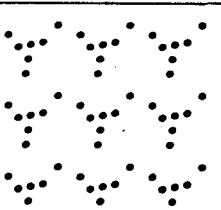
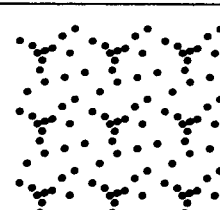



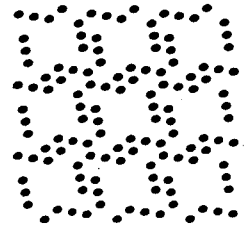
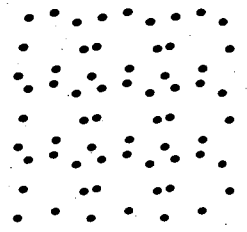
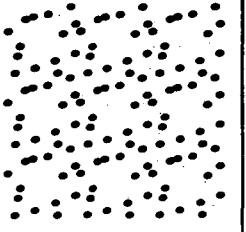


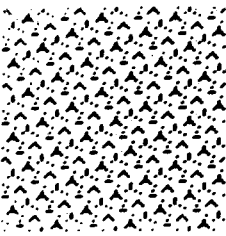
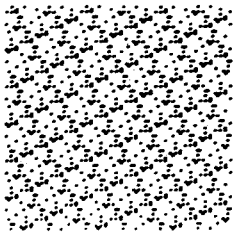
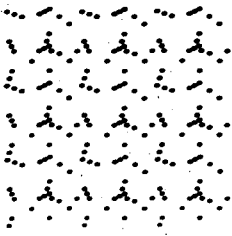
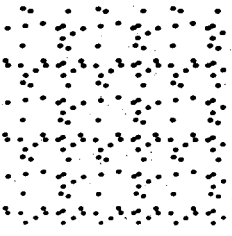


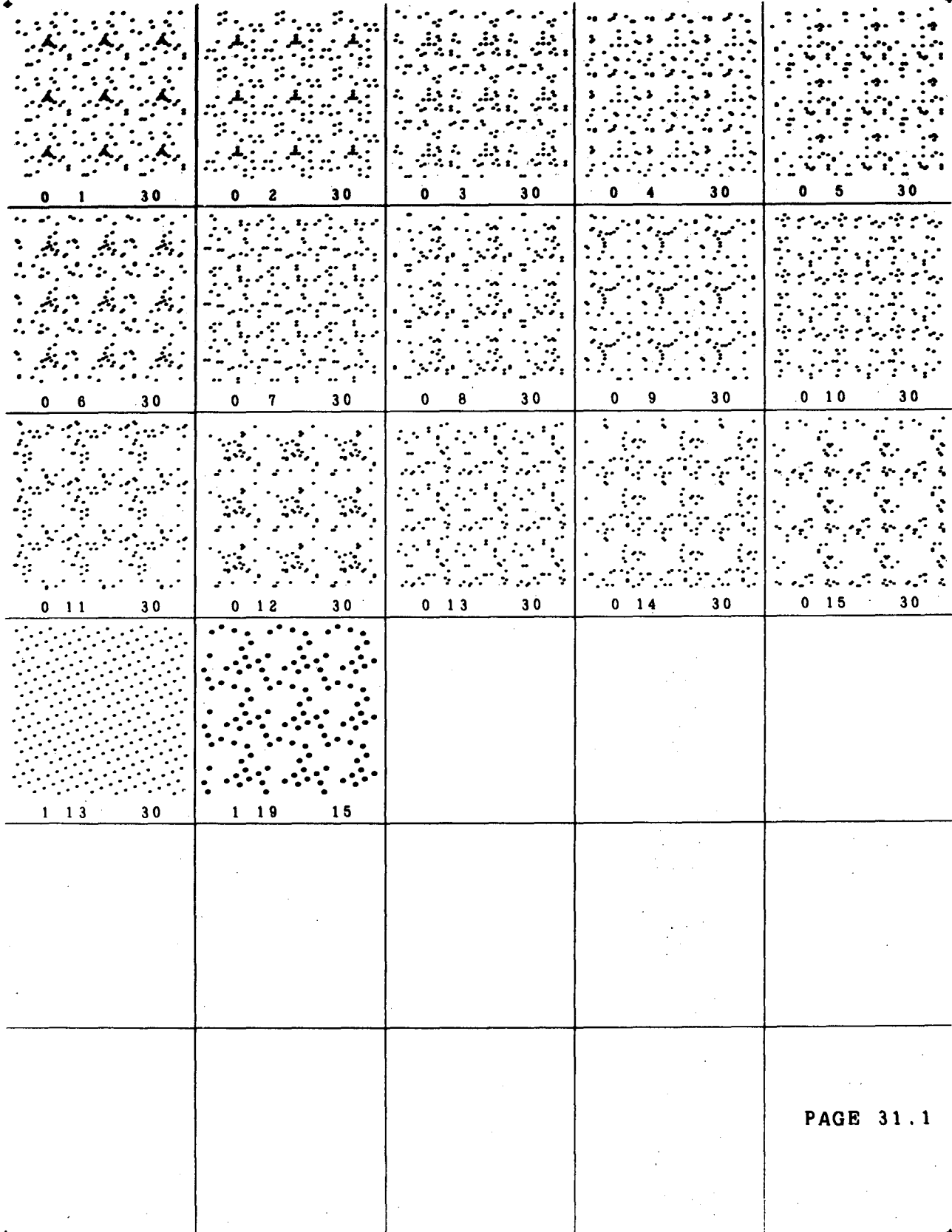
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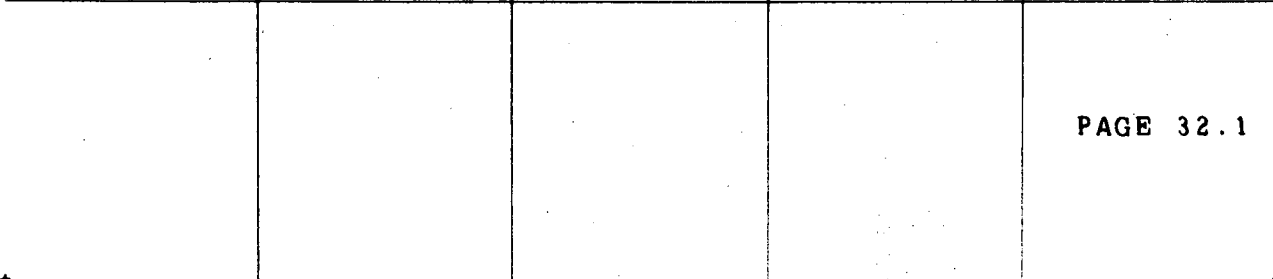
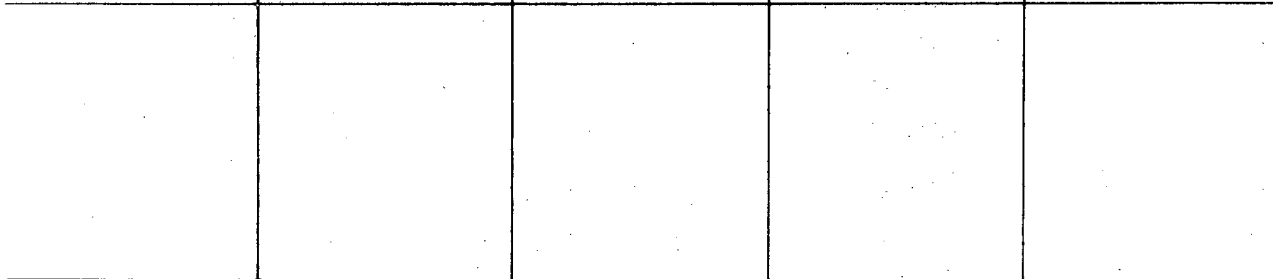
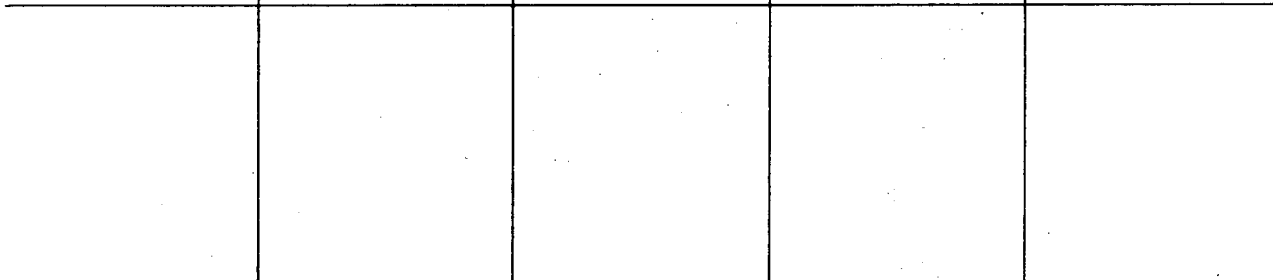
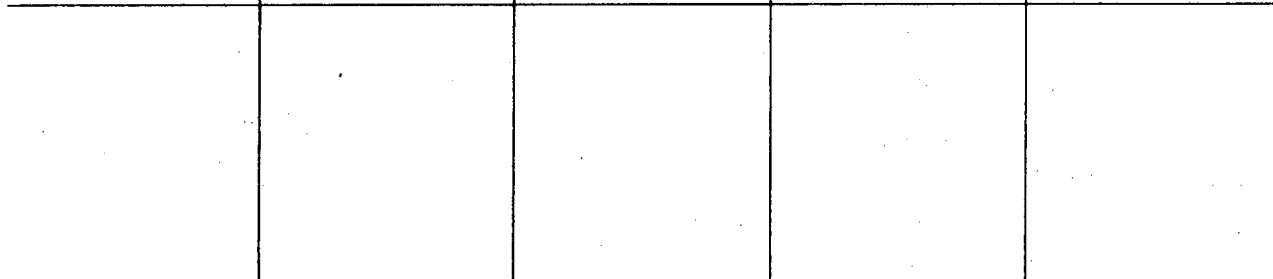
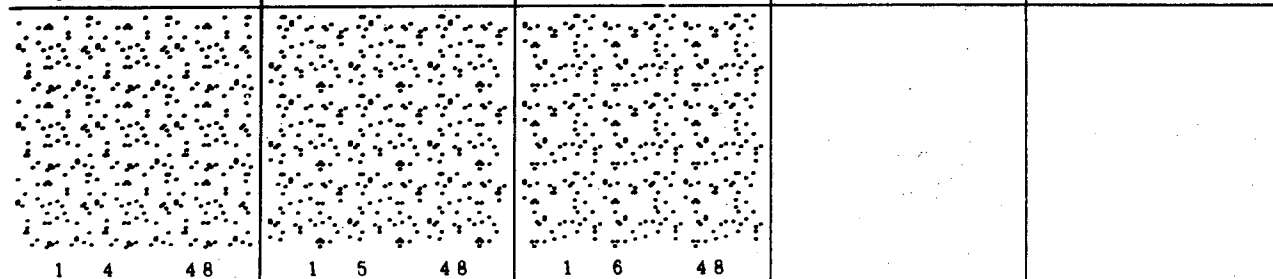
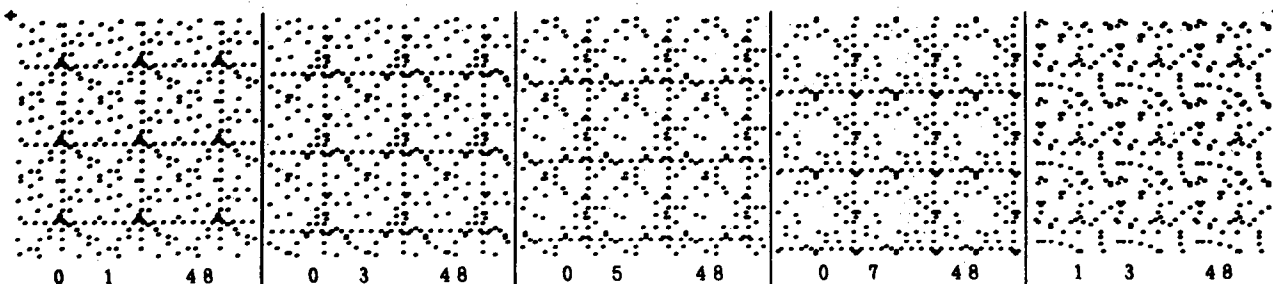
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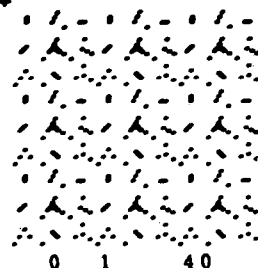
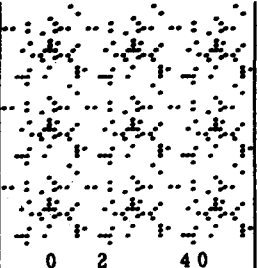
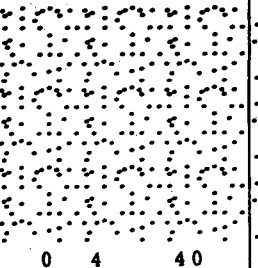
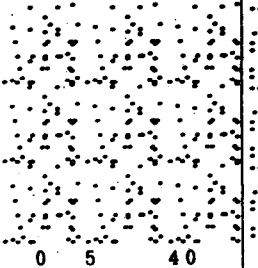
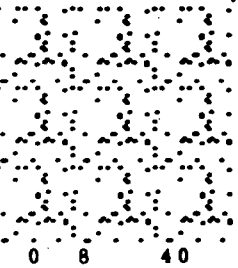
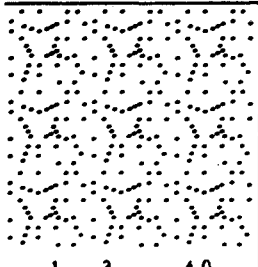
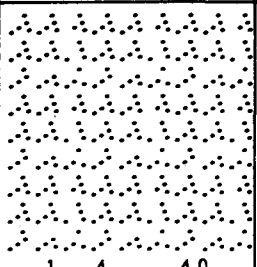
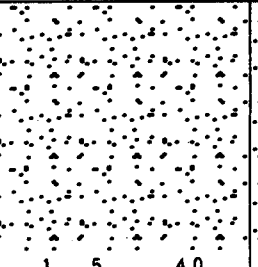
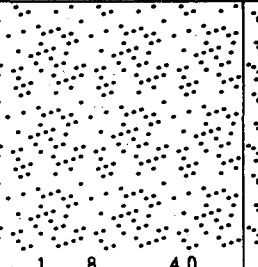
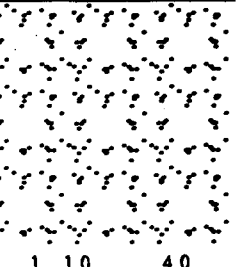
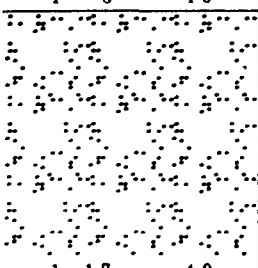
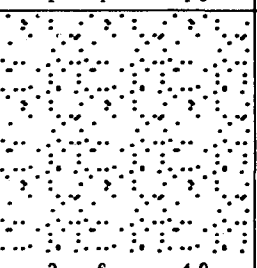
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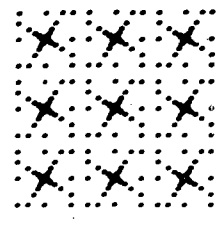
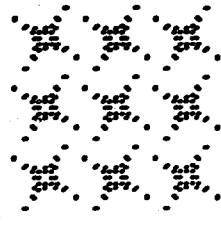
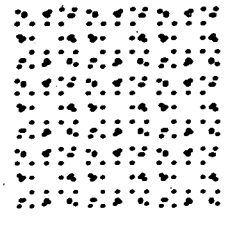
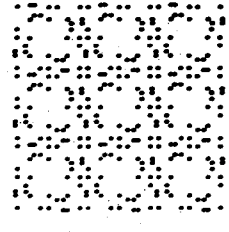
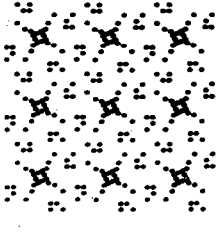
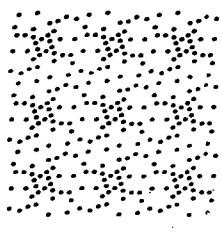
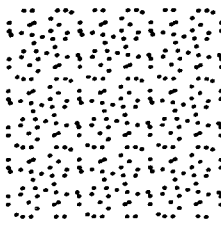
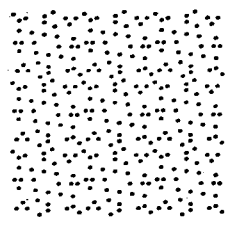
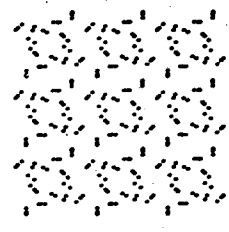
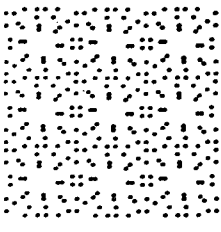
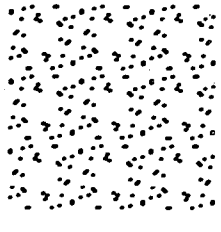
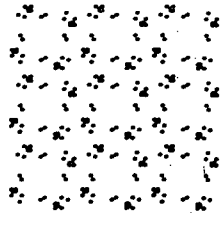
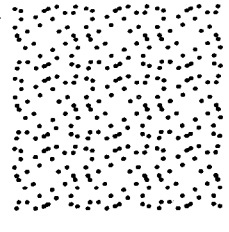
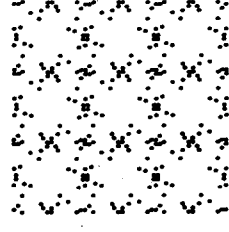
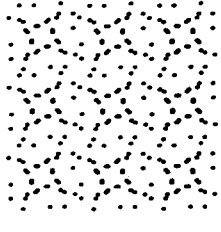
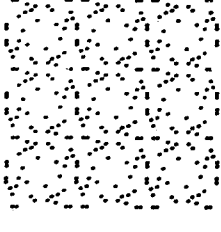
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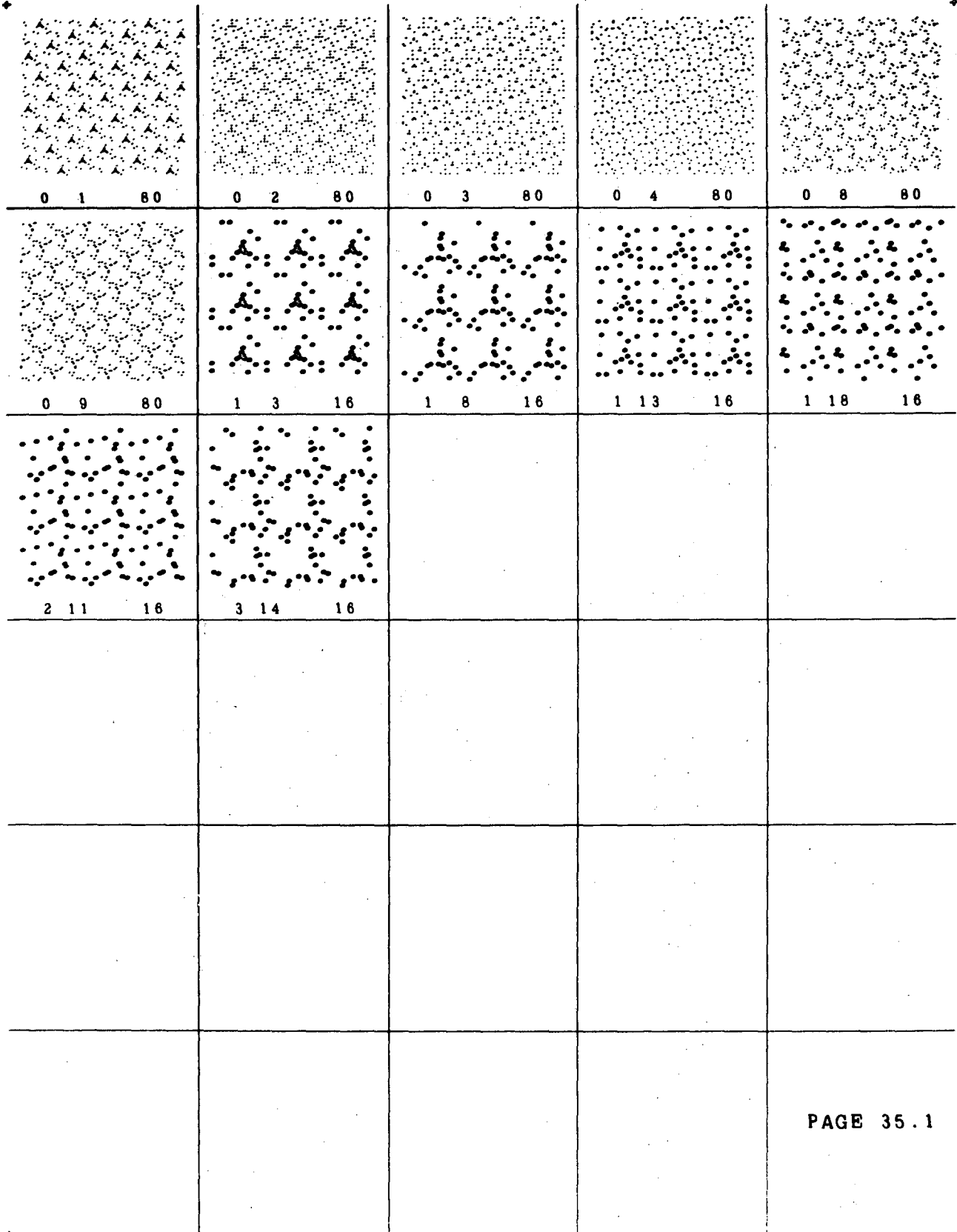
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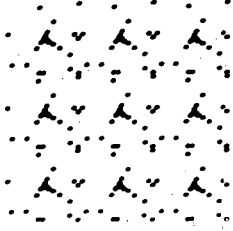
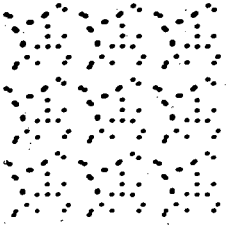
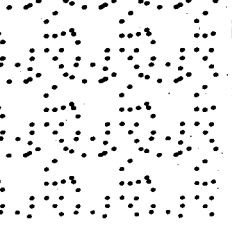
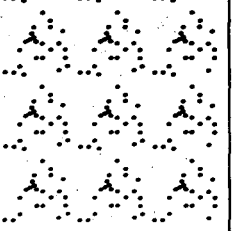
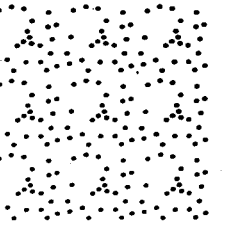
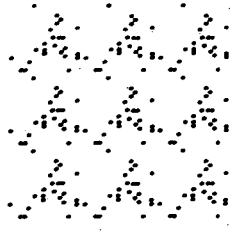
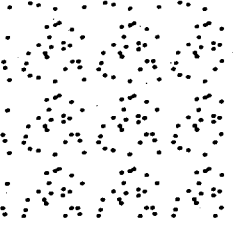
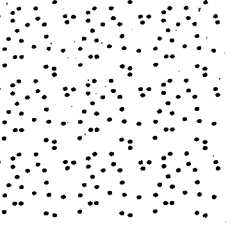
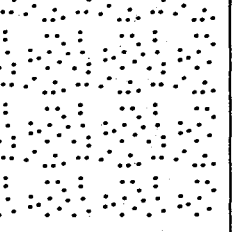
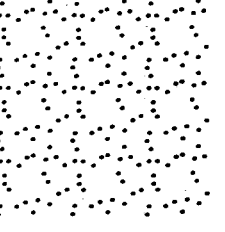
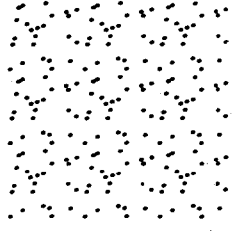
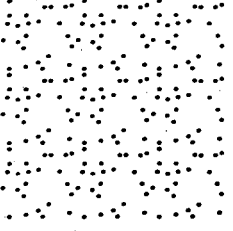
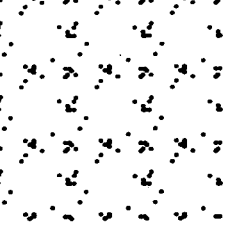
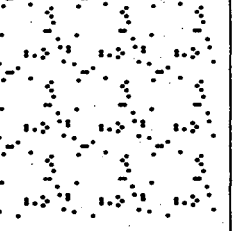
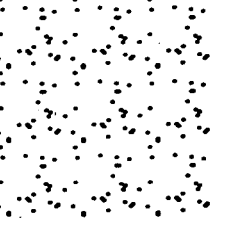
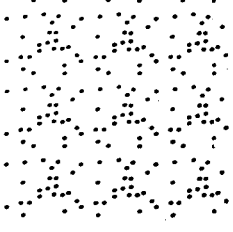
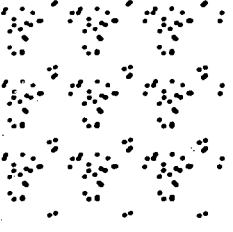
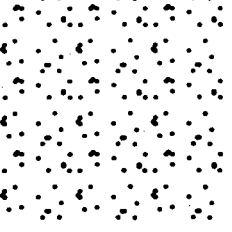


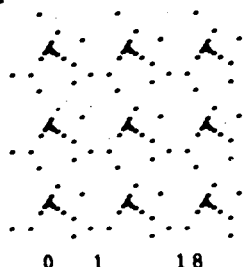
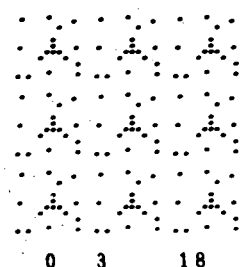
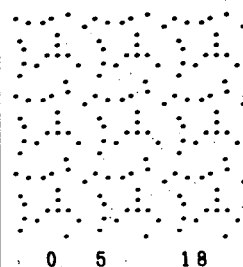
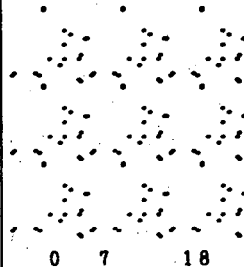
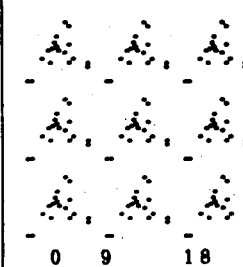
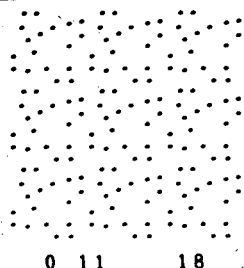
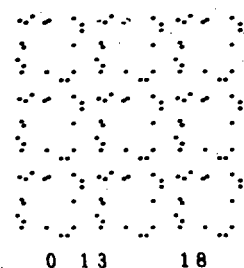
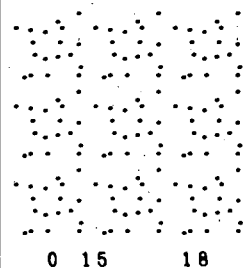
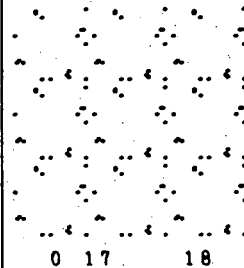
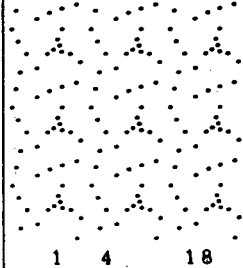
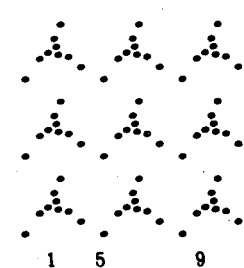
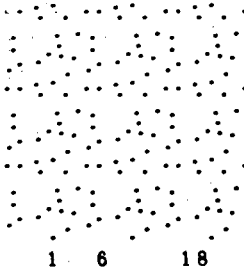
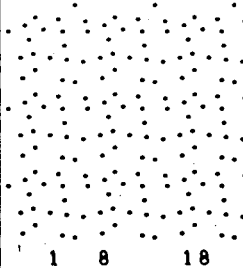
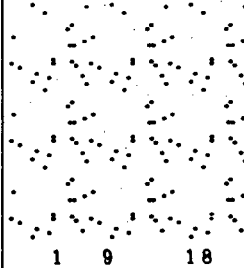
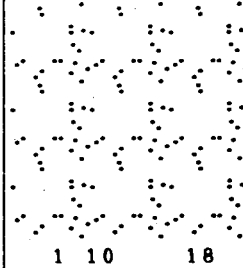
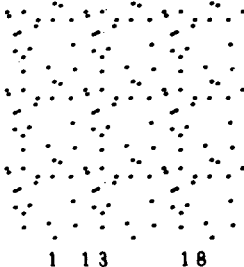
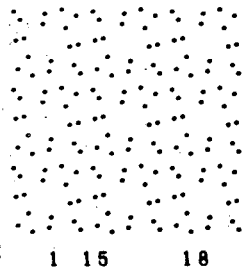
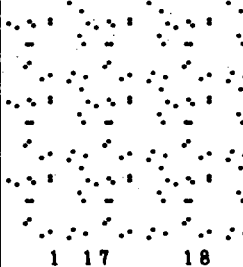
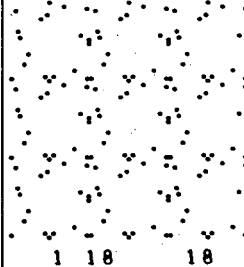
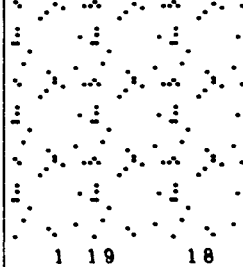
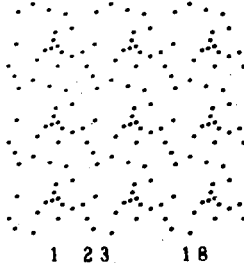
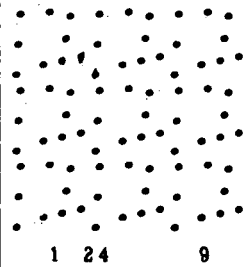
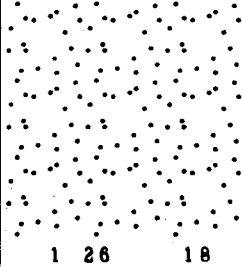
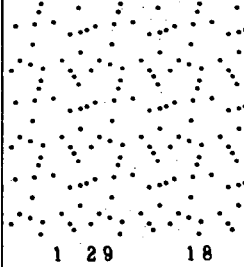
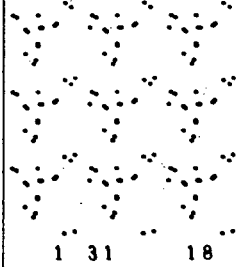
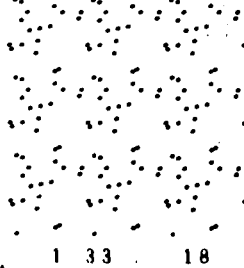
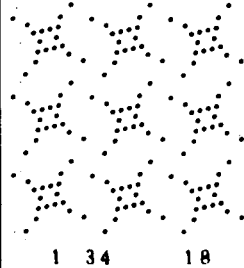
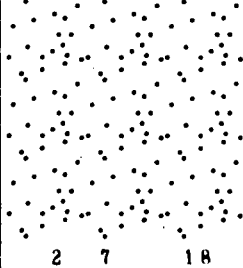
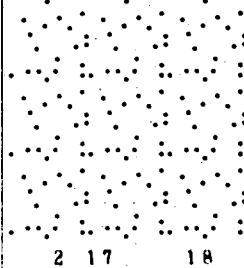


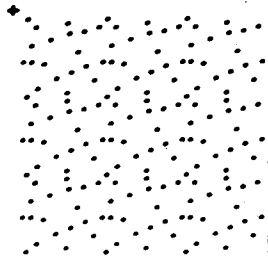
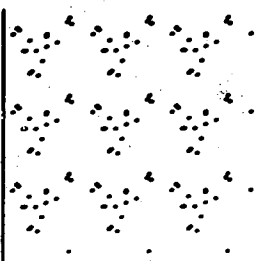
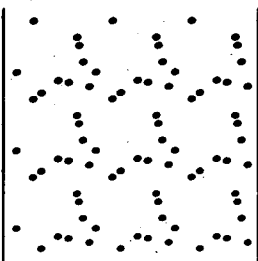
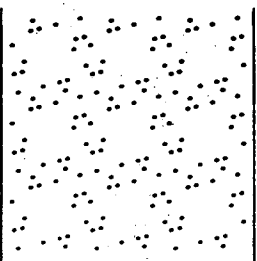
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 <p>1 9 36</p>	 <p>1 11 36</p>	 <p>1 14 36</p>	 <p>1 16 36</p>	 <p>2 7 36</p>
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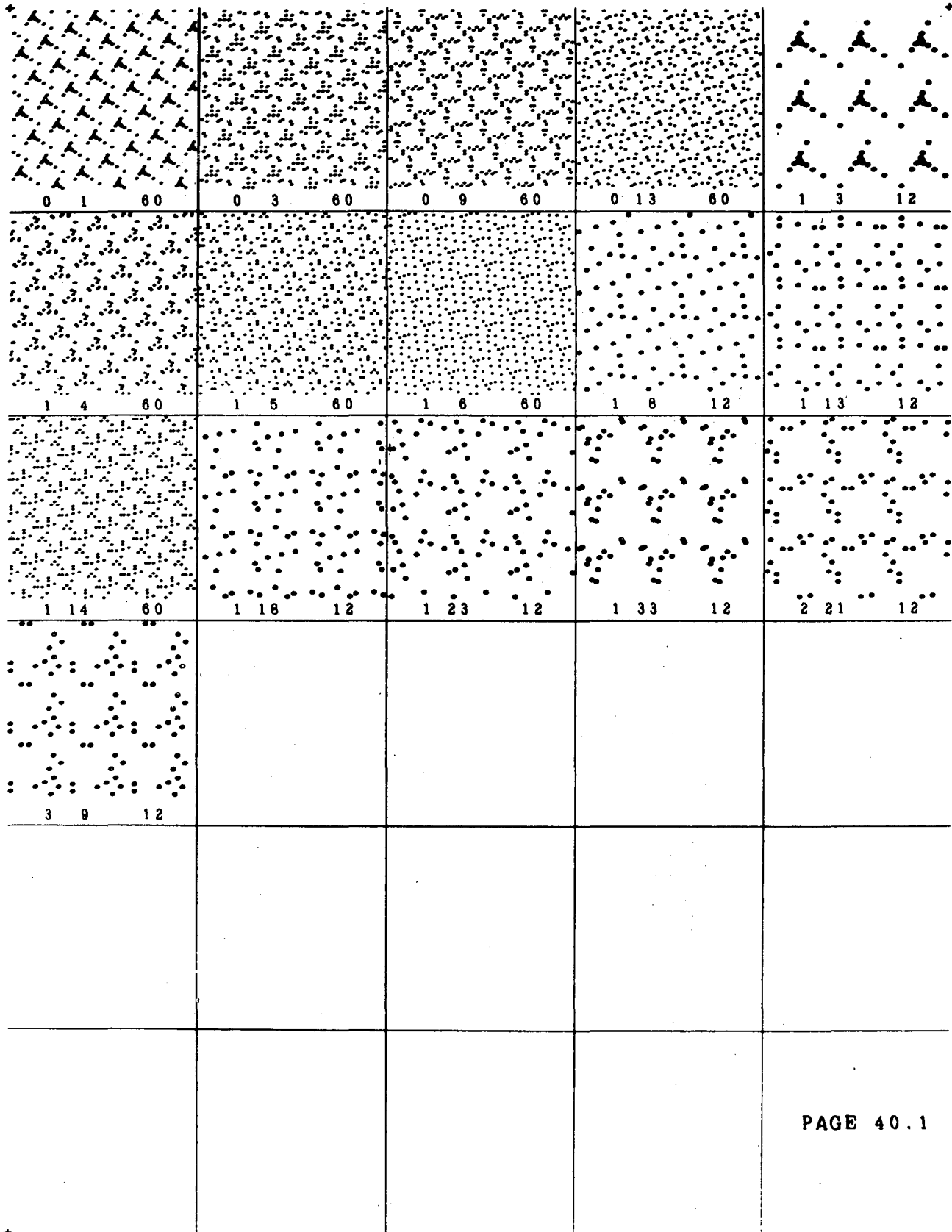


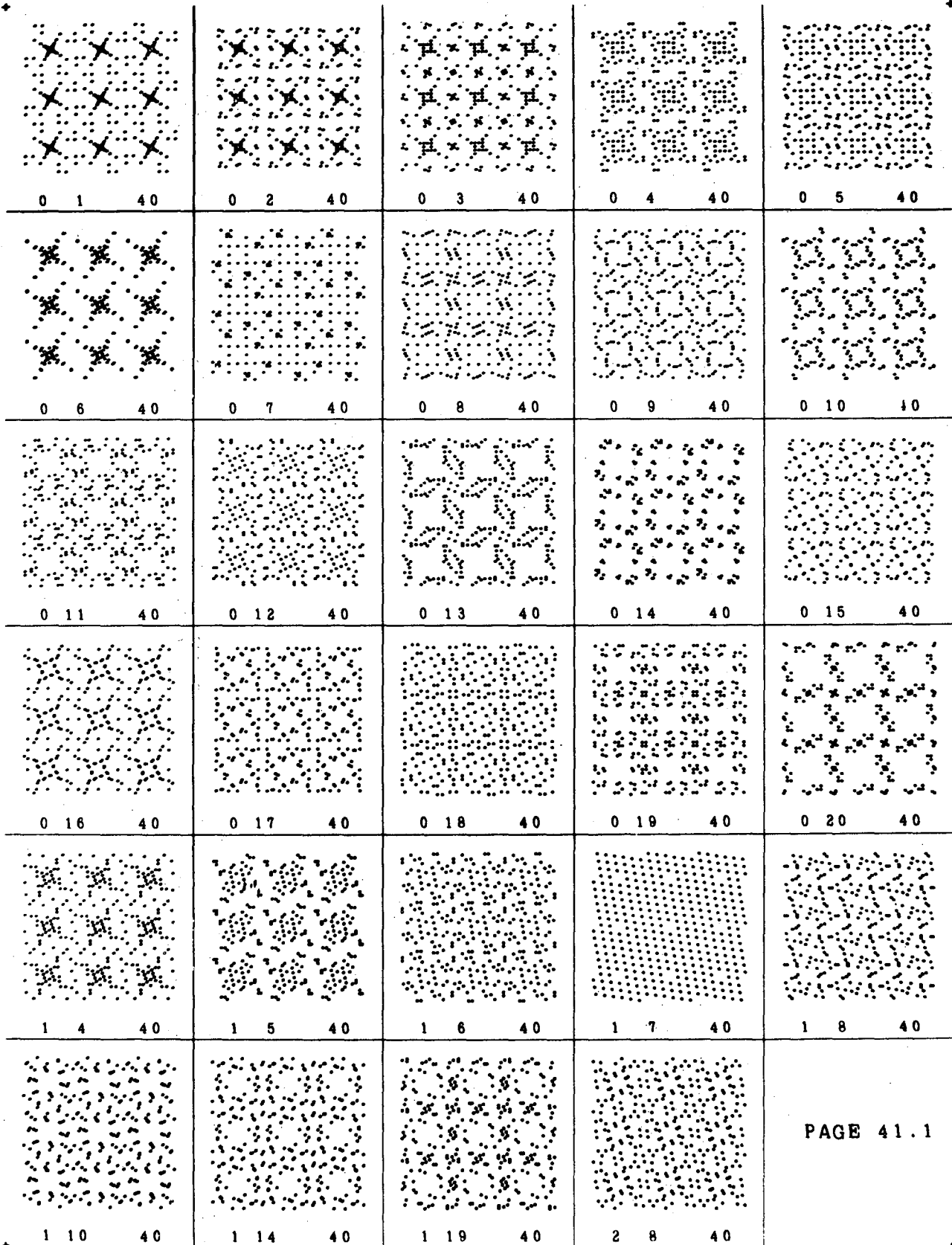
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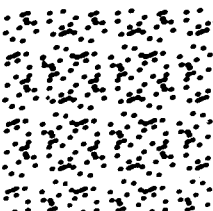
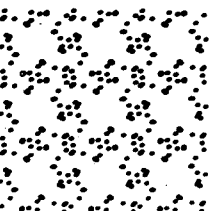
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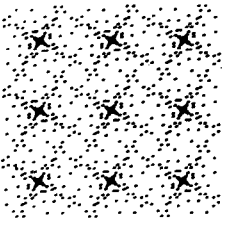
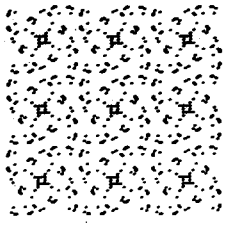
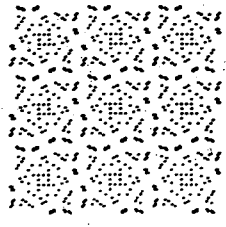
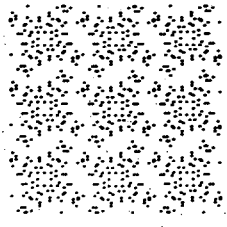
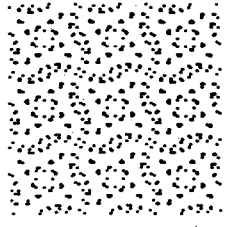
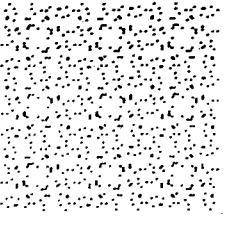
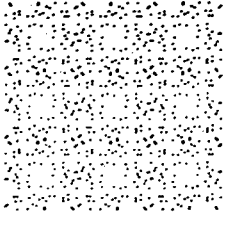
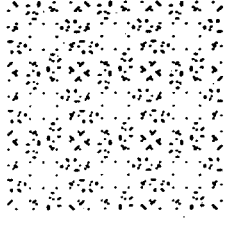
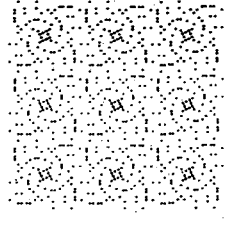
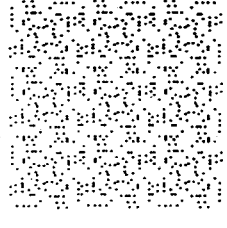
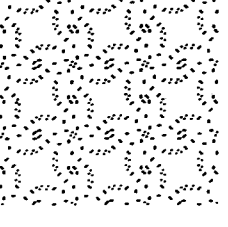
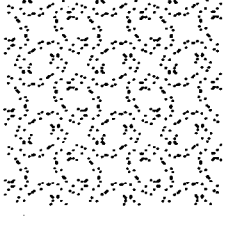
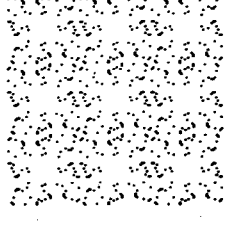
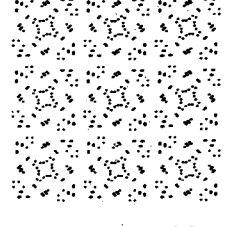
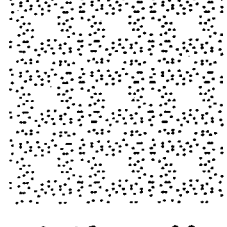
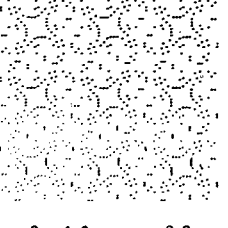
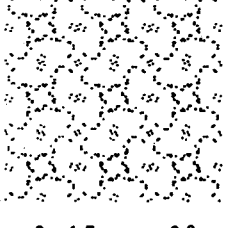
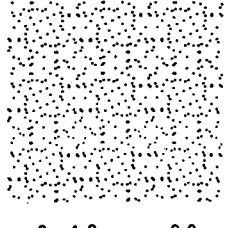
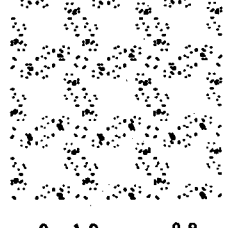
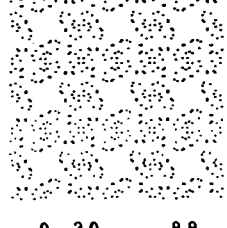
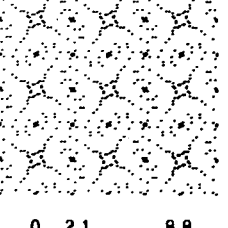
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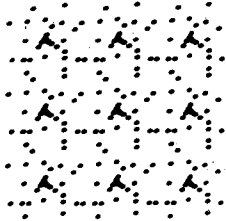
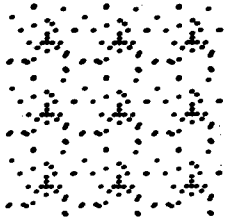
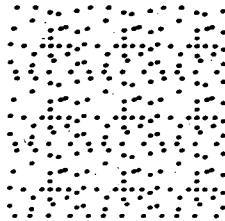
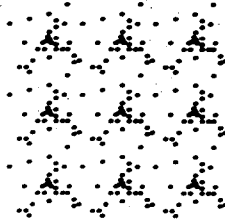
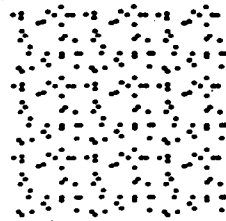
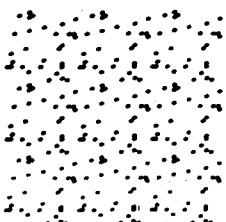
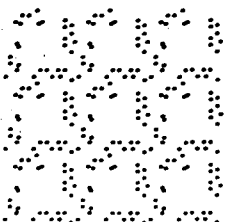
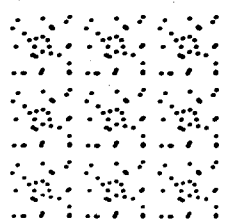
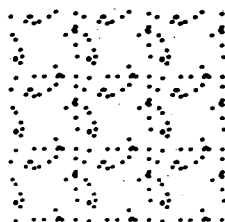
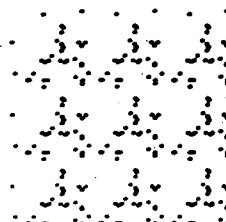
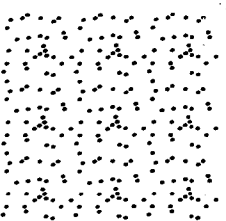
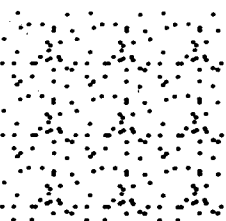
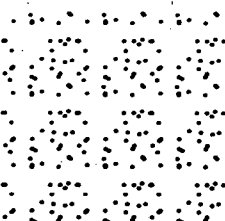
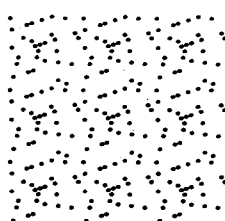
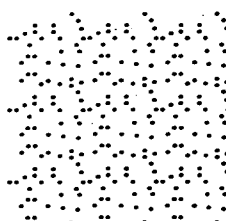
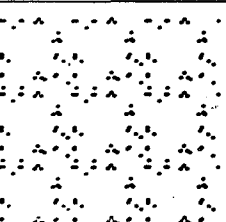
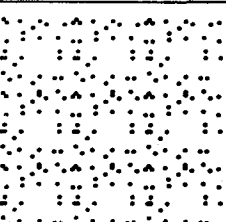
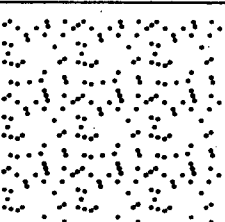
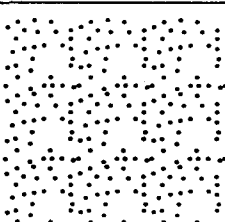
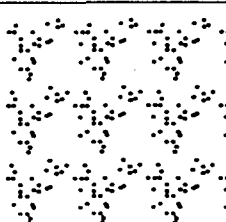
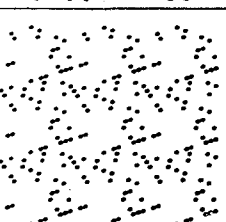
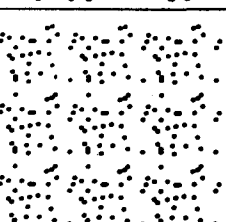
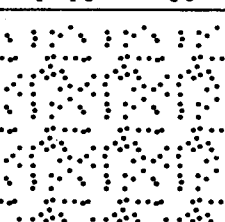
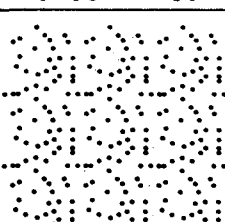


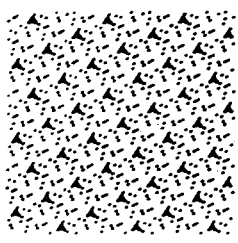
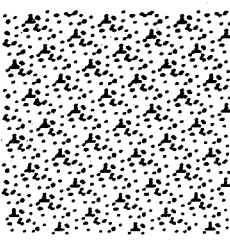
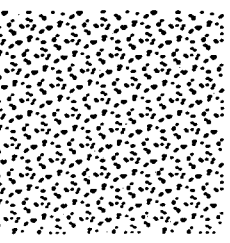
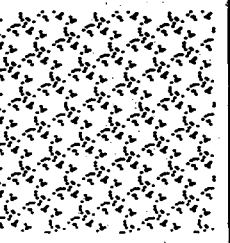
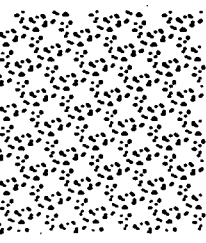
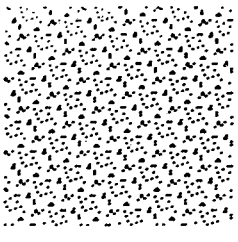
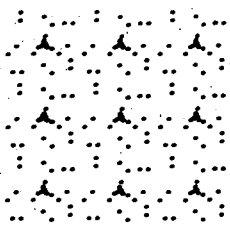
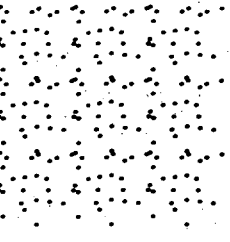
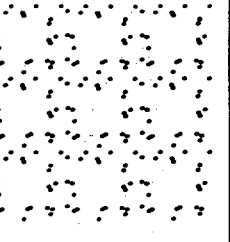
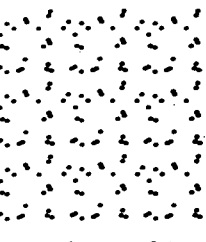
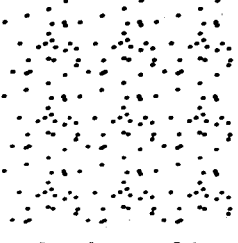
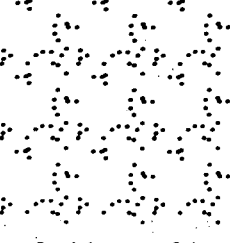



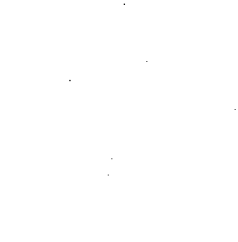


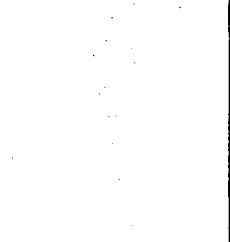





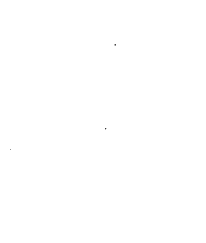






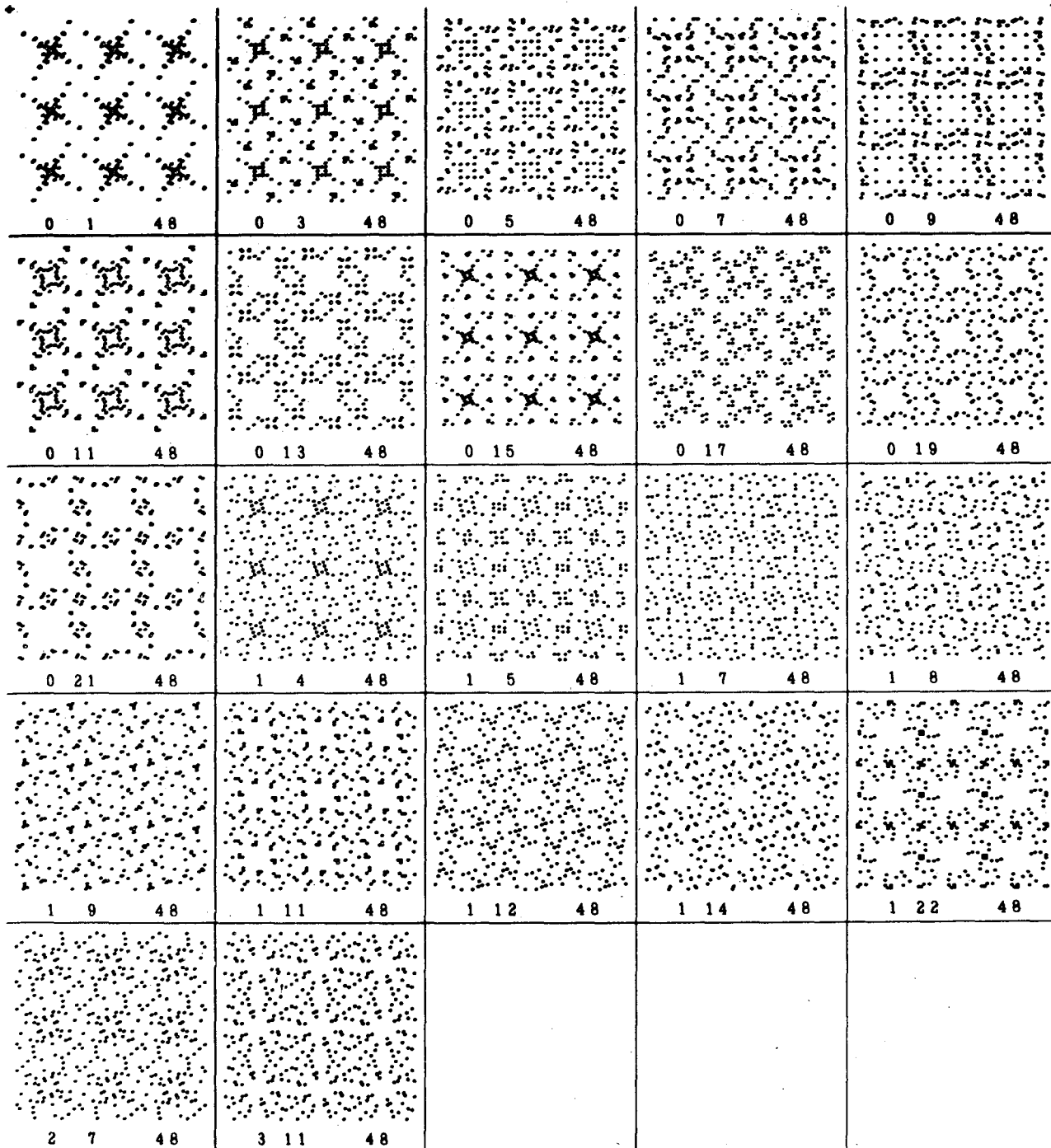
				
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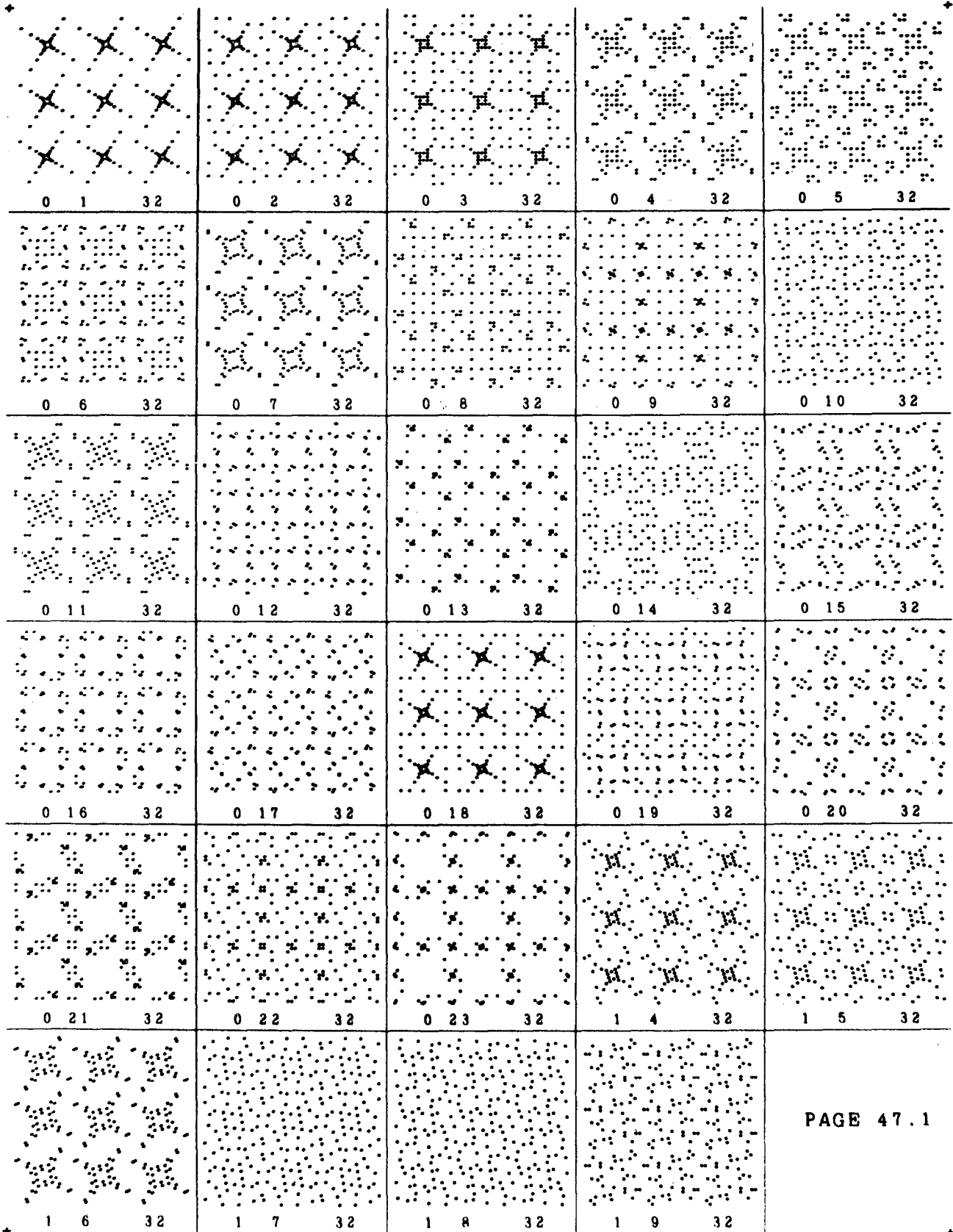
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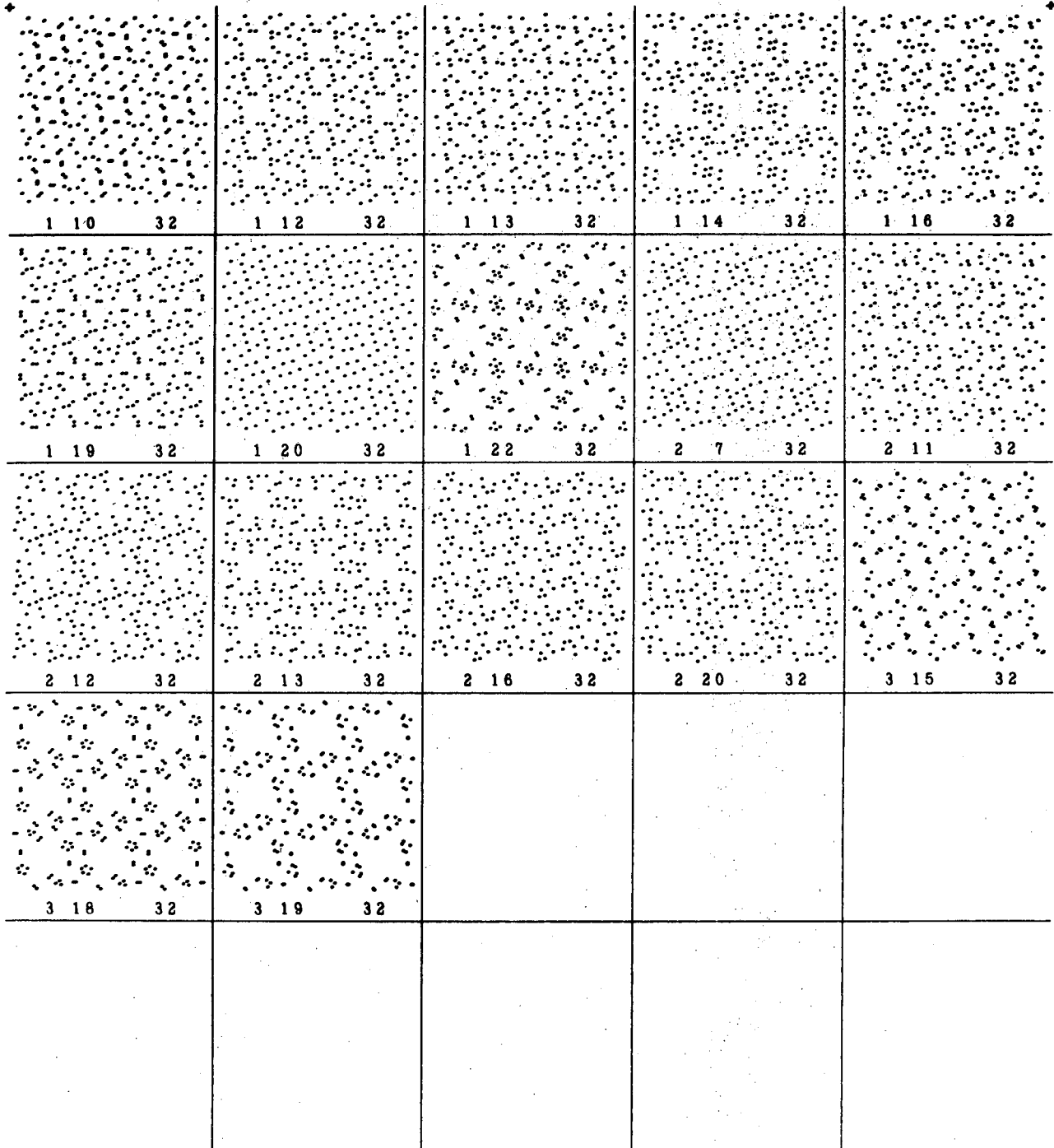
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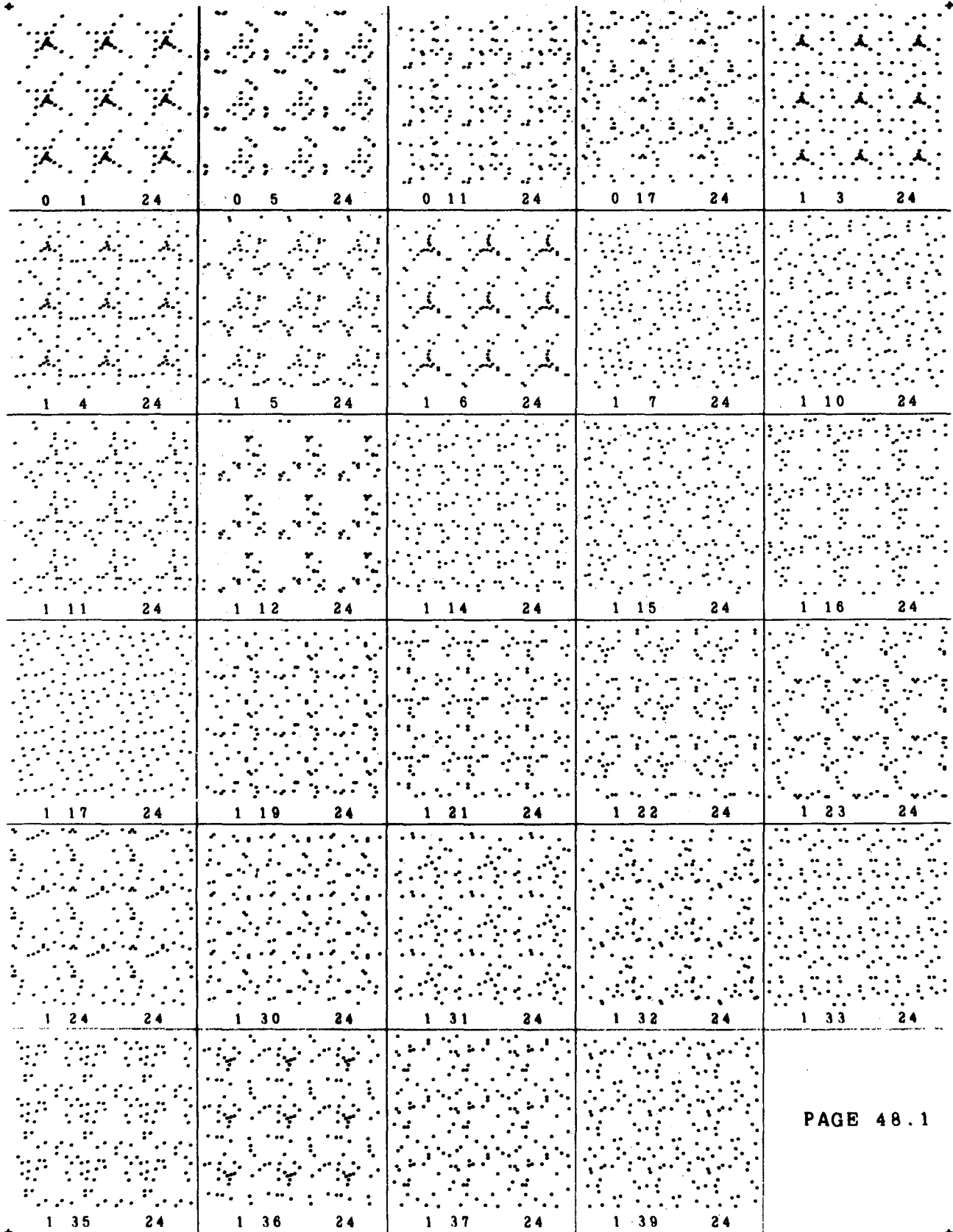
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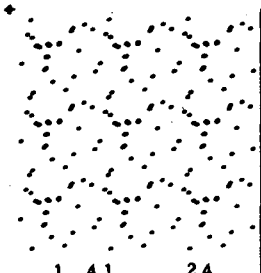
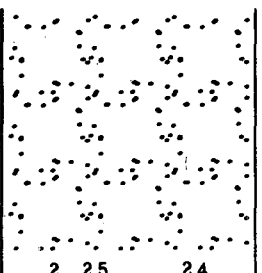
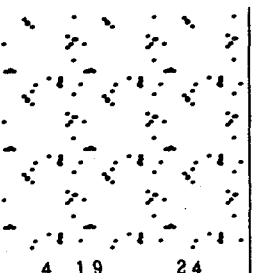
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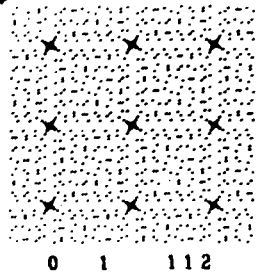
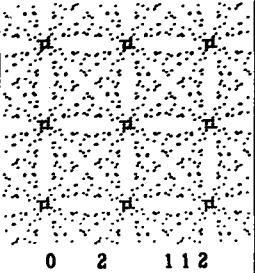
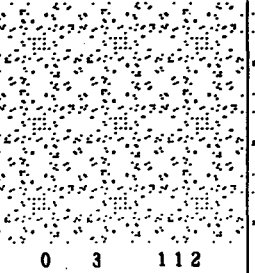
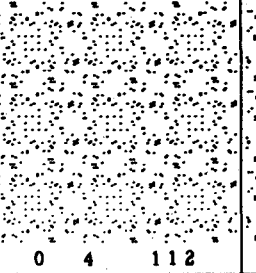
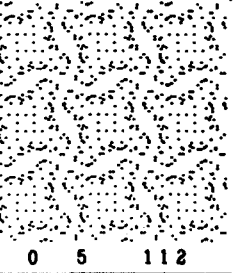
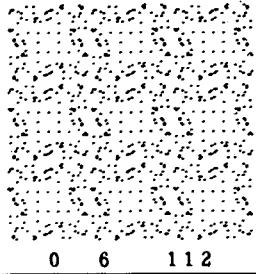
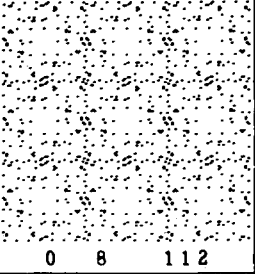
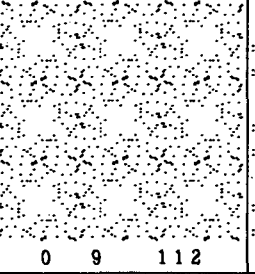
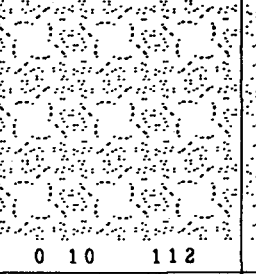
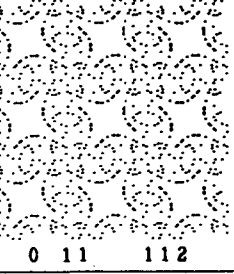
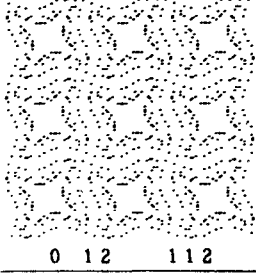
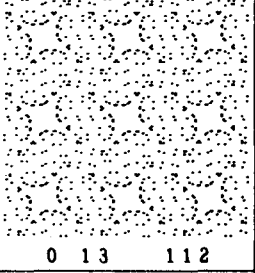
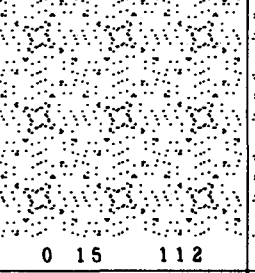
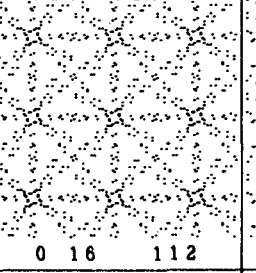
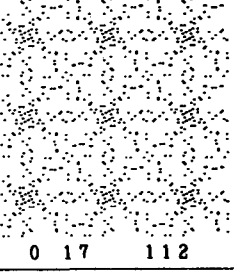
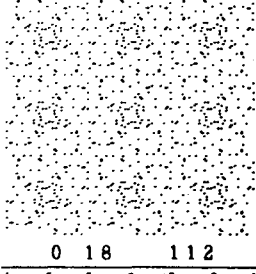
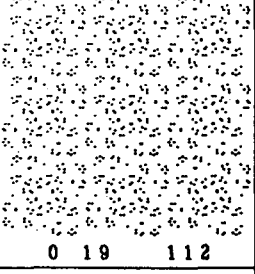
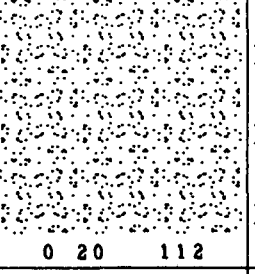
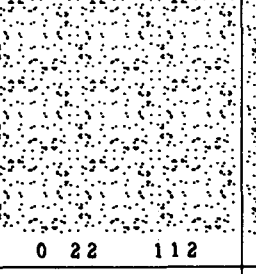
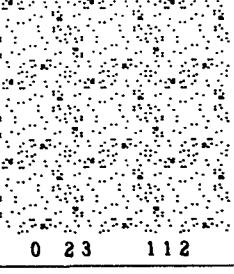
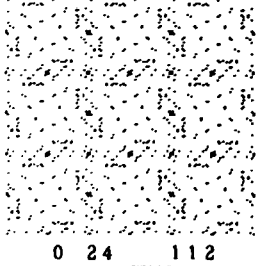




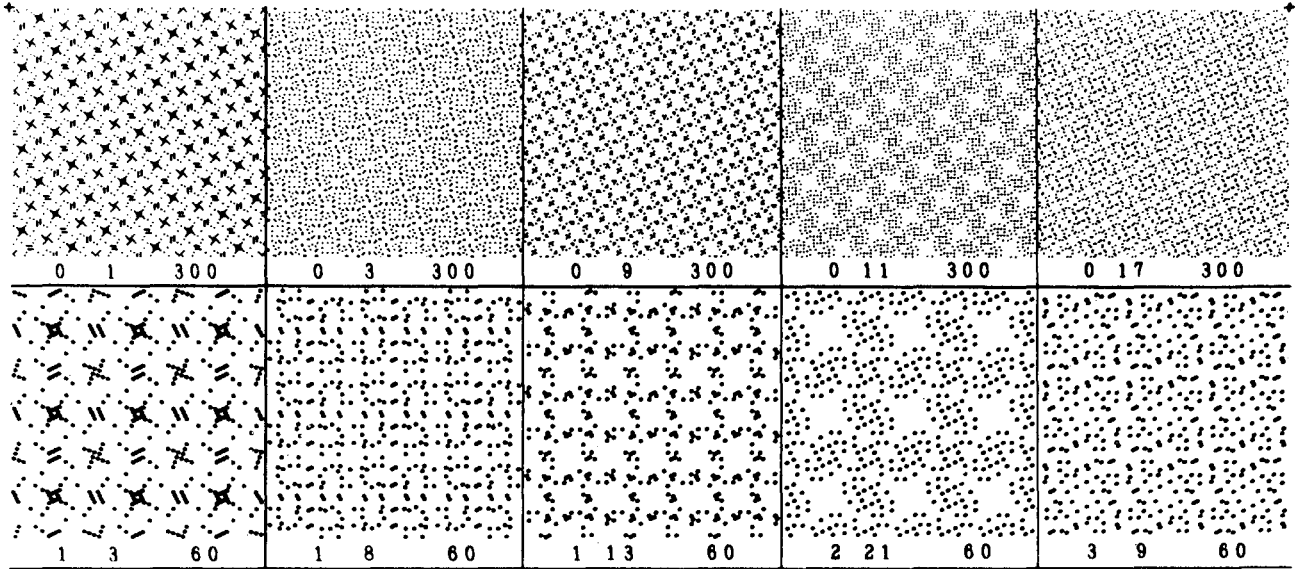


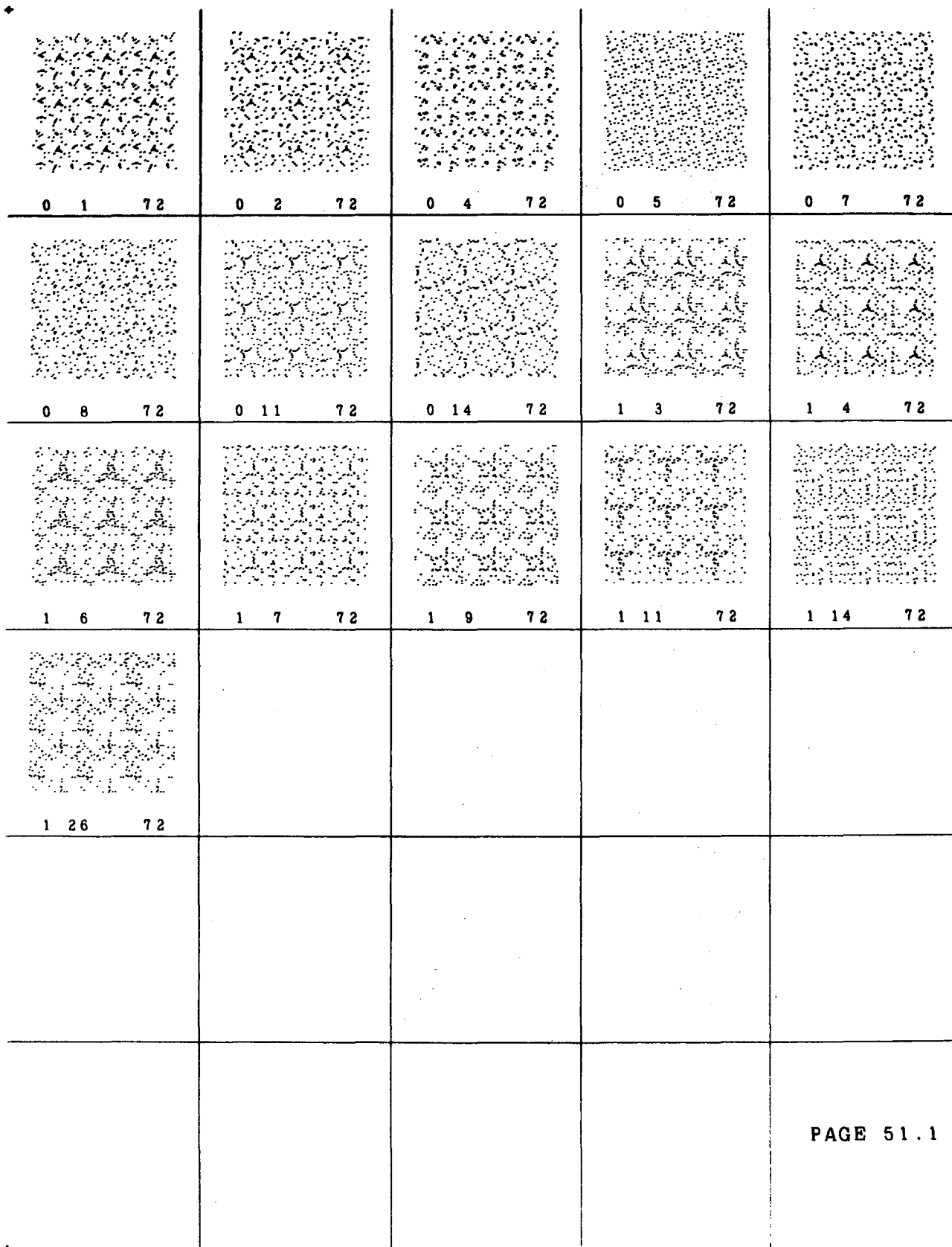


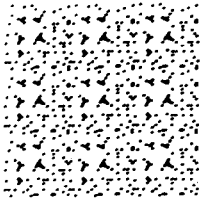
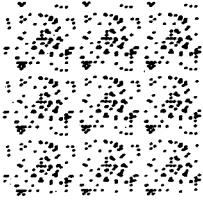
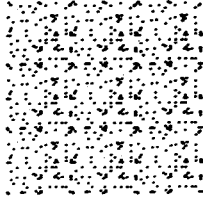
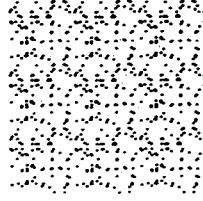
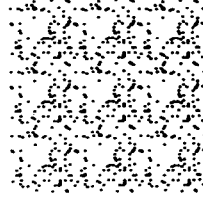
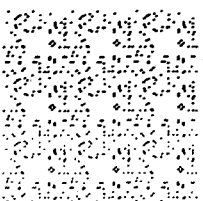
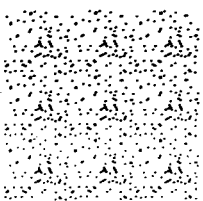
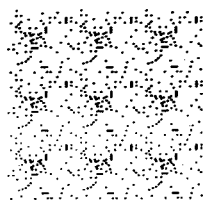
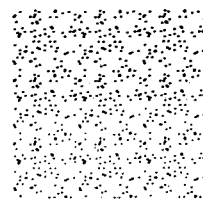
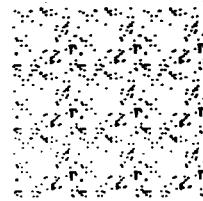
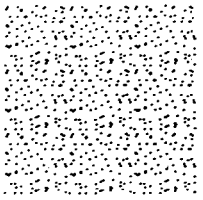
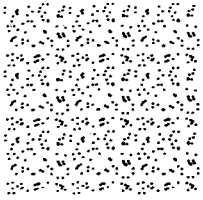
				
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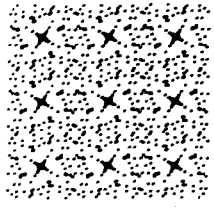
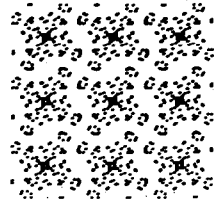
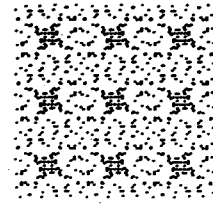
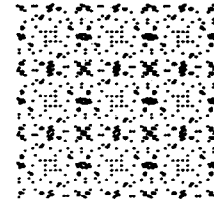
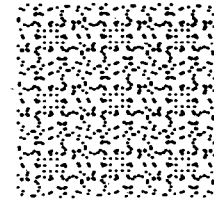
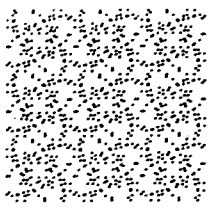
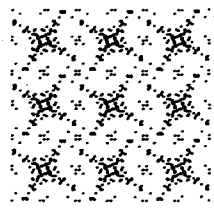
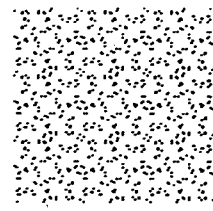
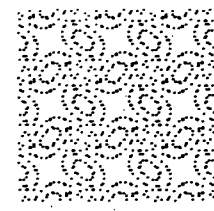
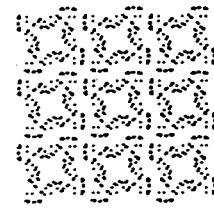
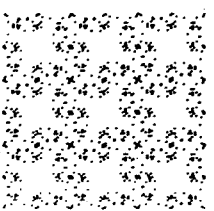
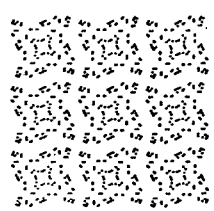
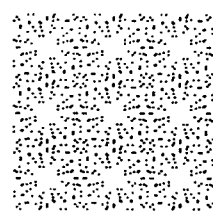
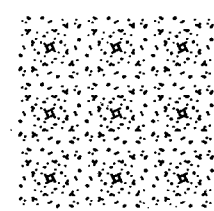
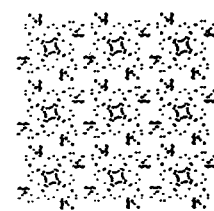
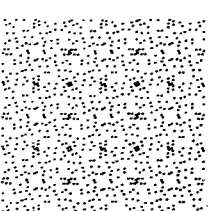
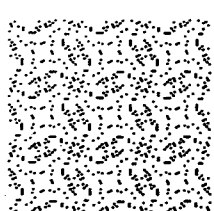
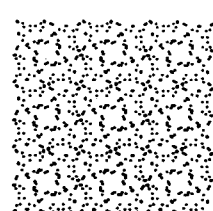
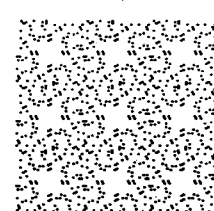
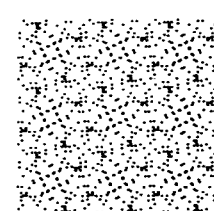

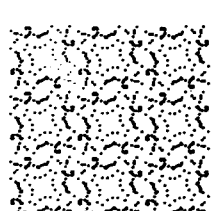
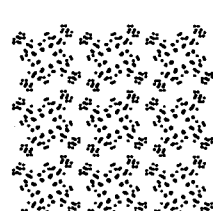

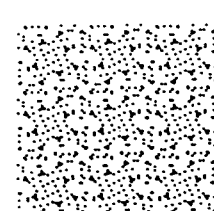
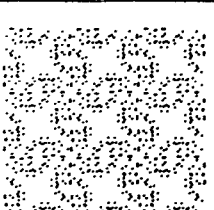
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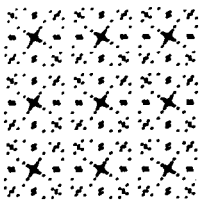
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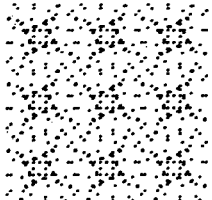


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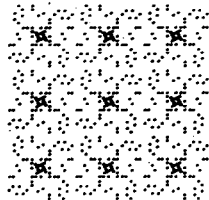
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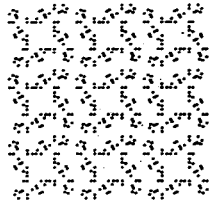
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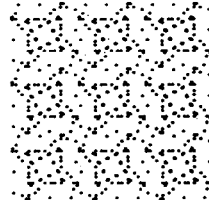
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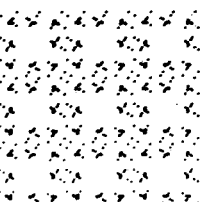
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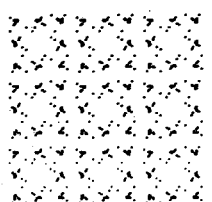
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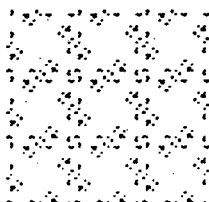
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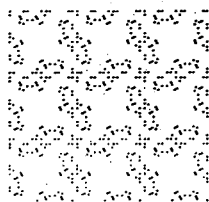
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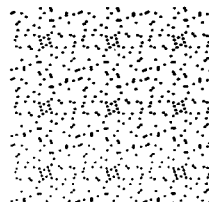
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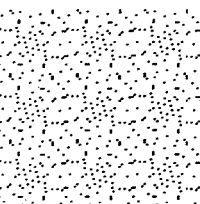
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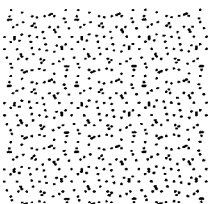
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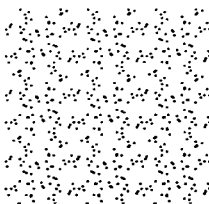
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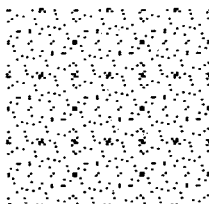
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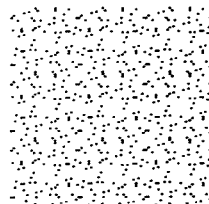
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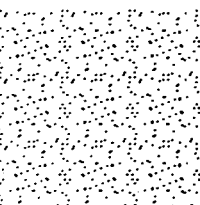
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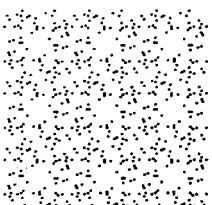
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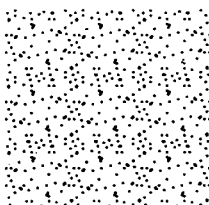
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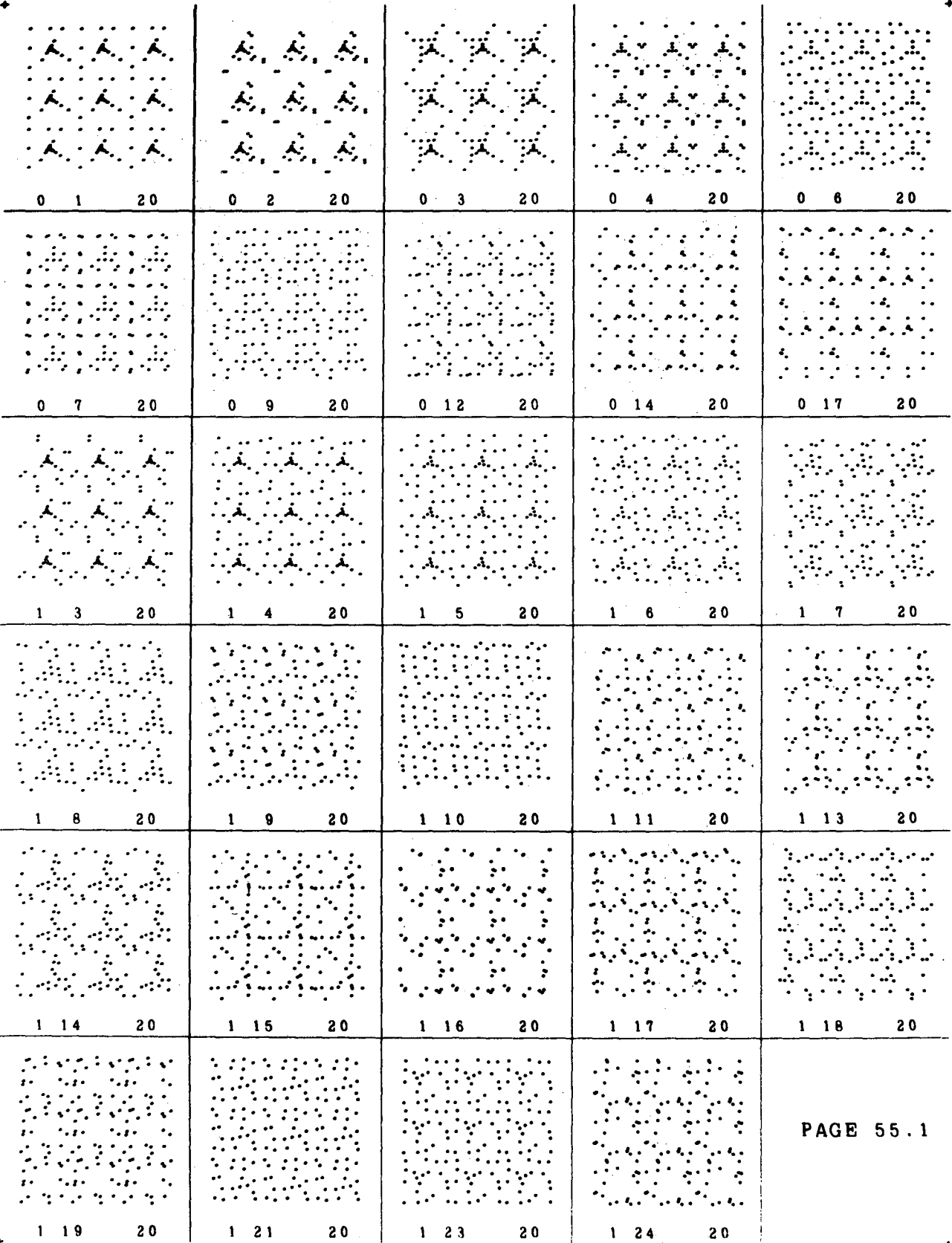
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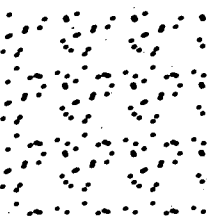
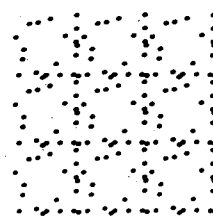
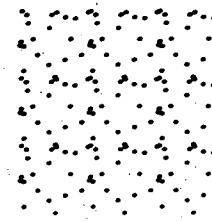
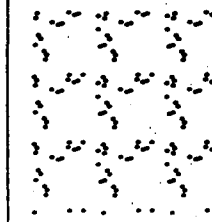
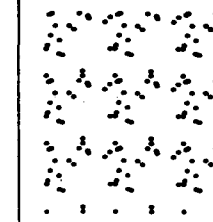
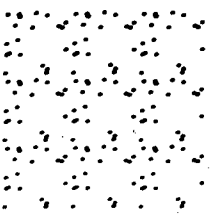
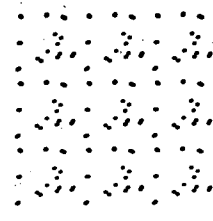
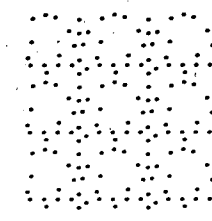
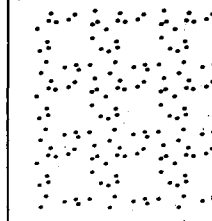
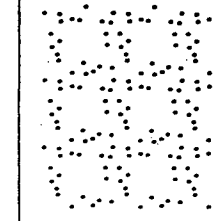
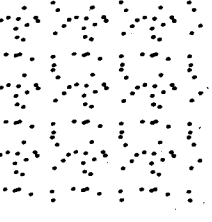
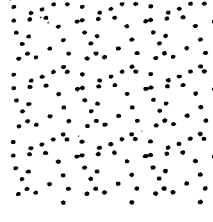
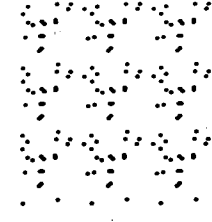
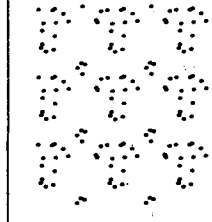
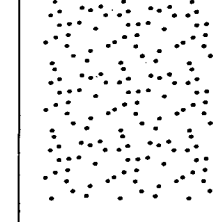
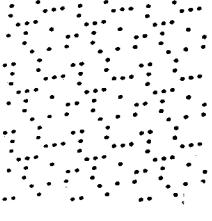
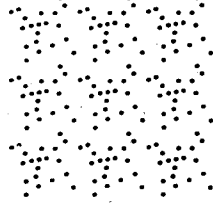
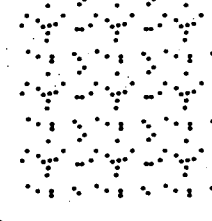
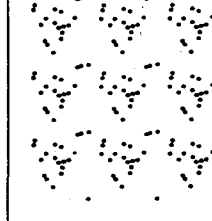
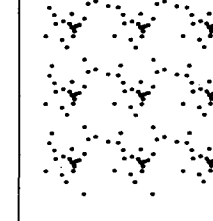
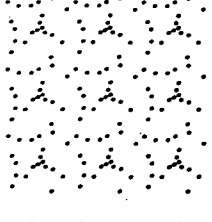
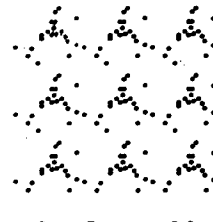
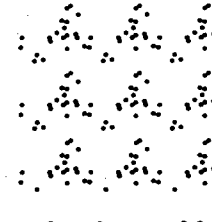
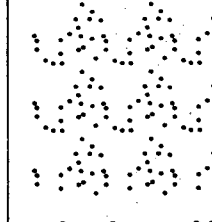
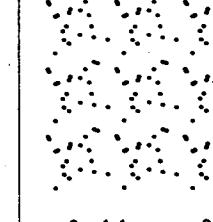
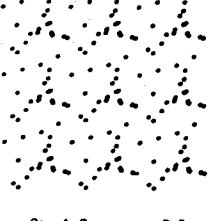
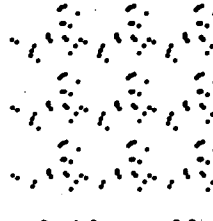
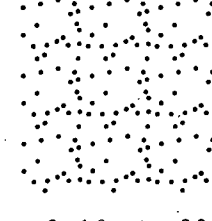
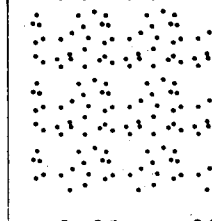


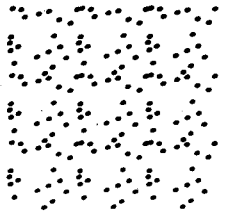
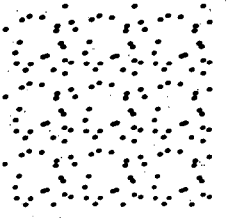
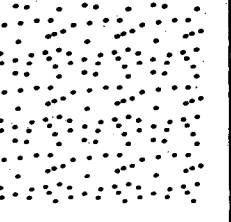
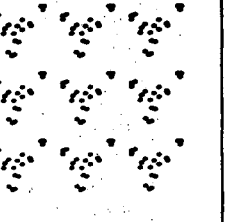
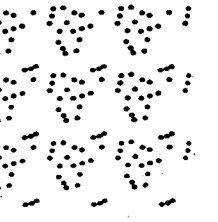
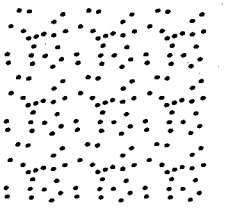
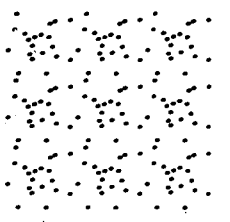
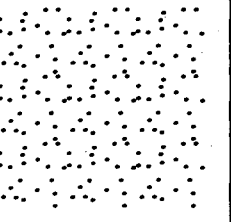
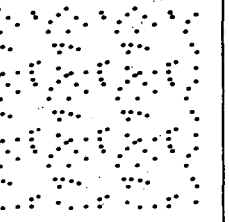
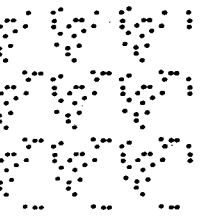
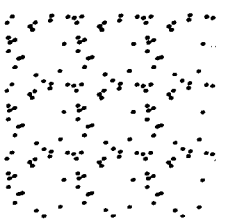
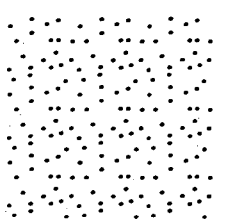
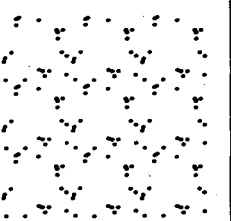
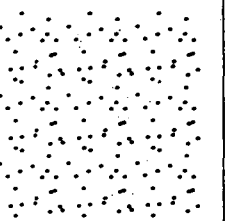
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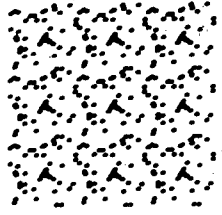
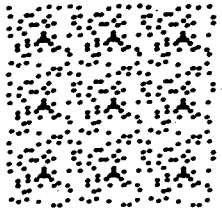
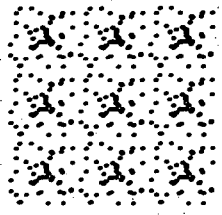
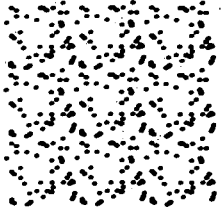
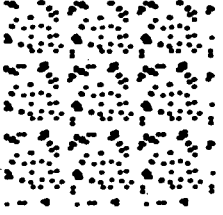
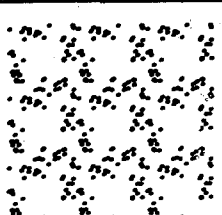
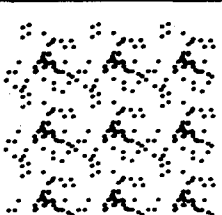
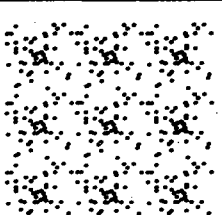
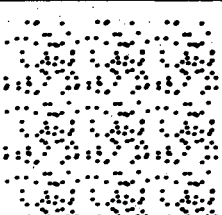
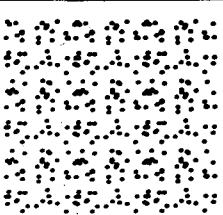
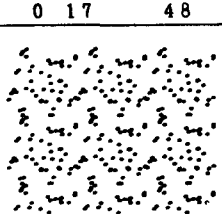
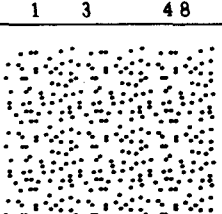
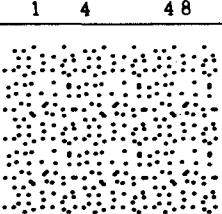
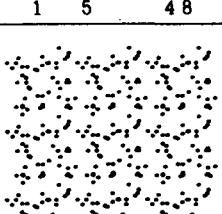
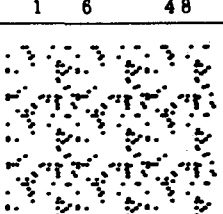
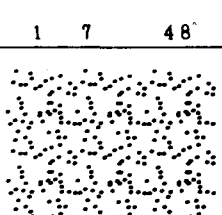
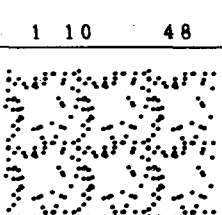
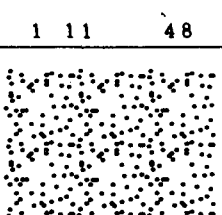
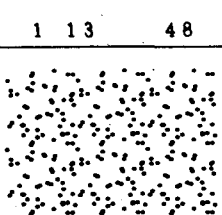
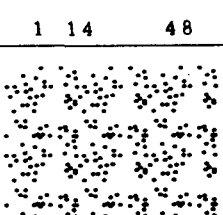
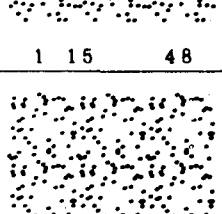
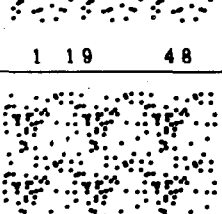
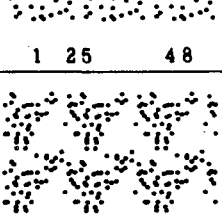
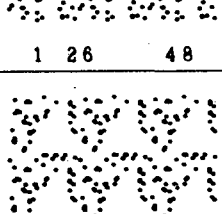


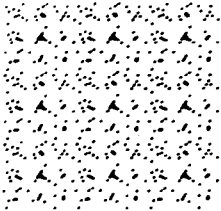
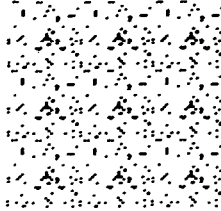
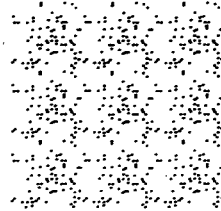
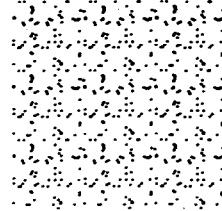
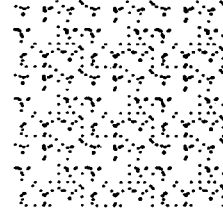
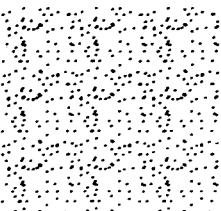
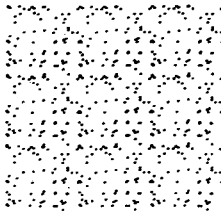
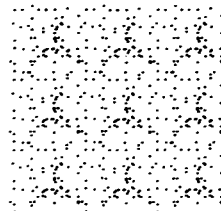
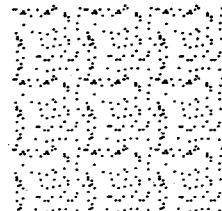
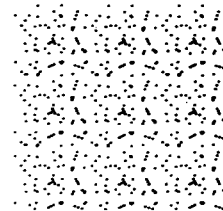
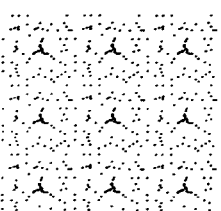
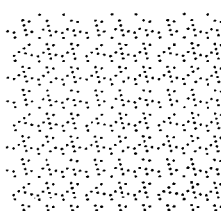
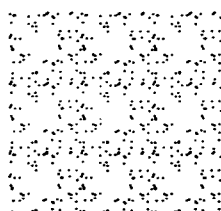
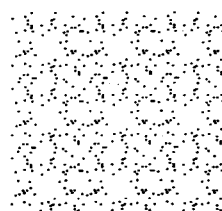
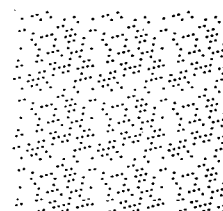
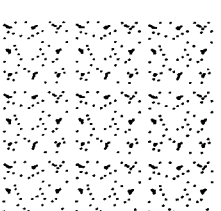
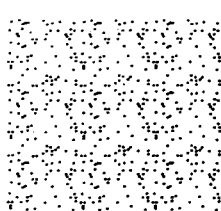
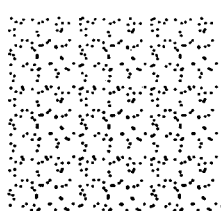
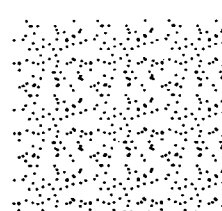
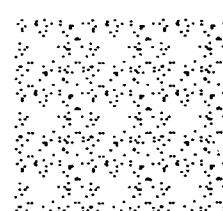
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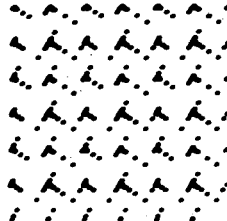
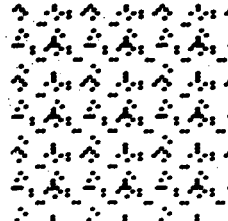
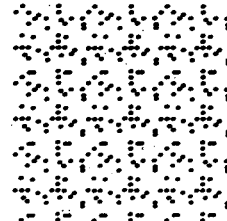
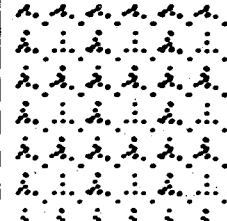
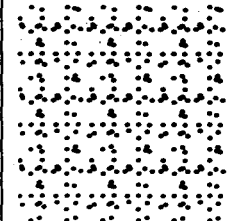
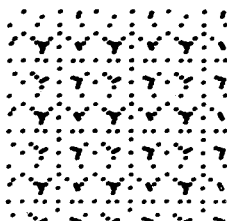
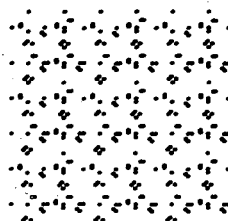
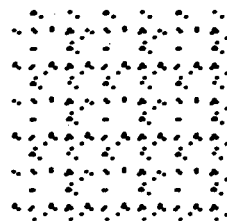
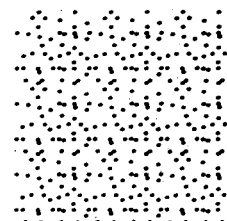
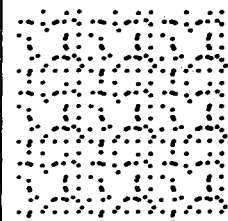
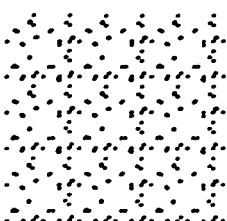
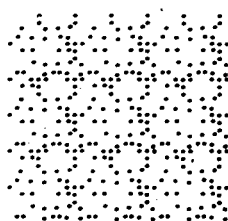
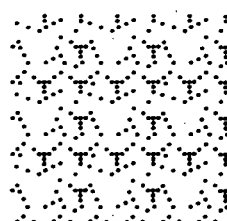
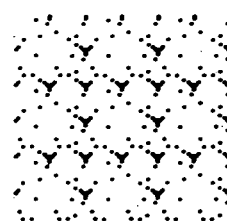
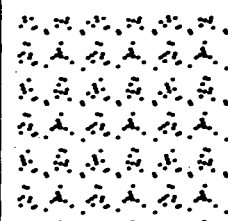
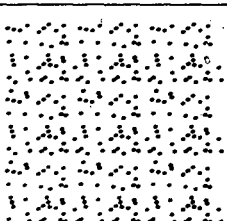
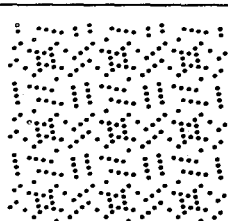
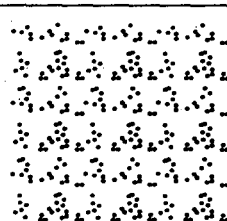
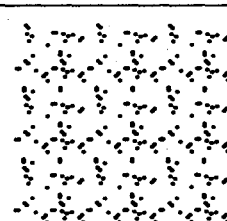
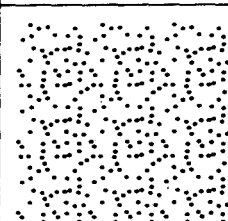
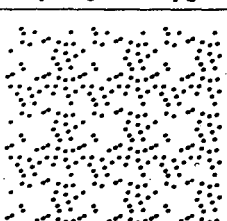
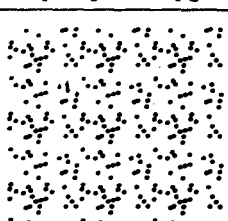
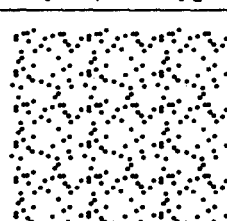
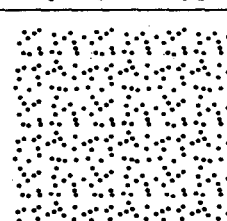
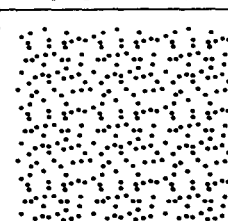
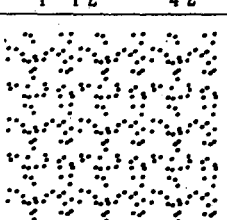
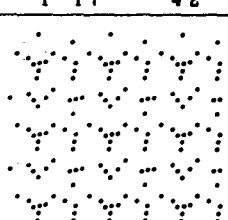
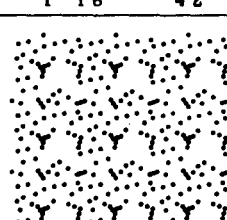
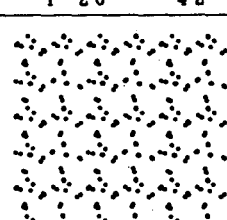


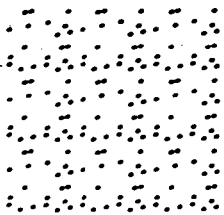
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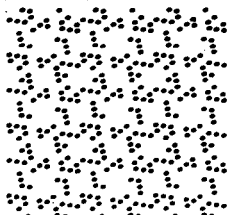
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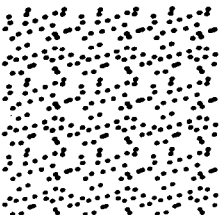
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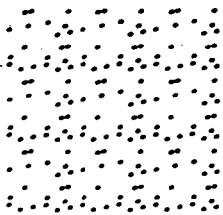
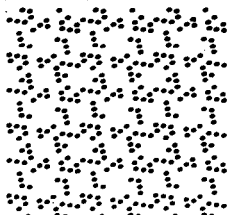
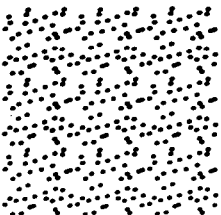
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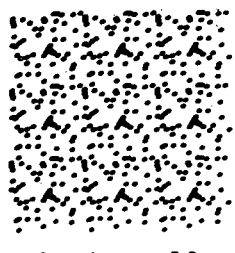
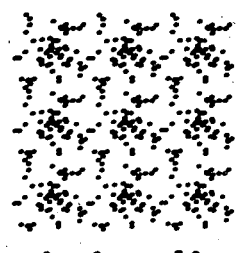
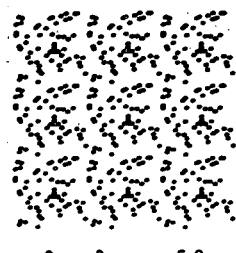
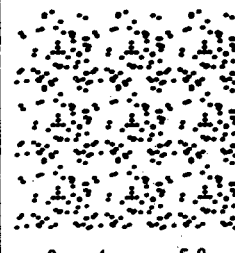
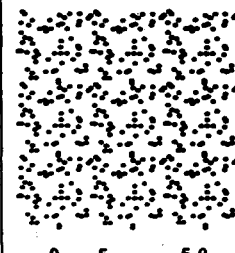
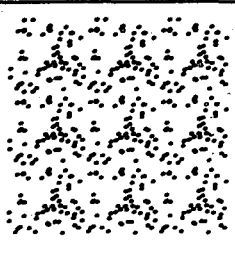
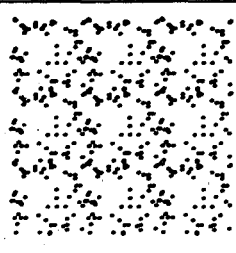
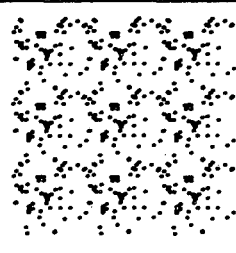
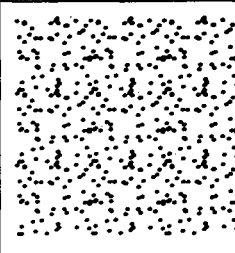
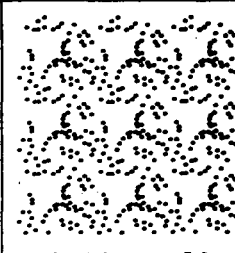
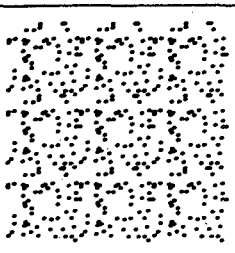
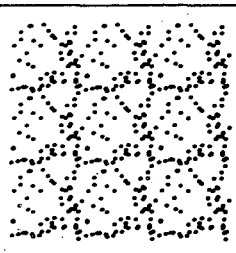
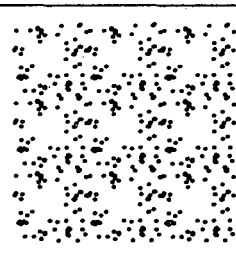
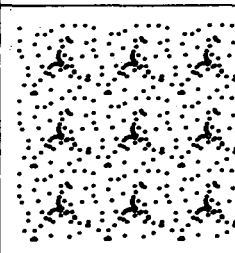
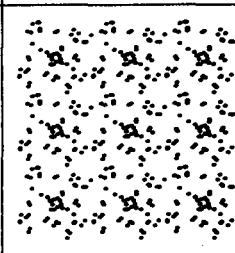
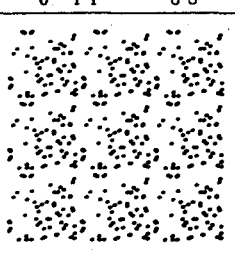
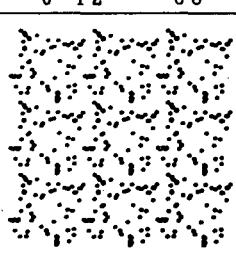
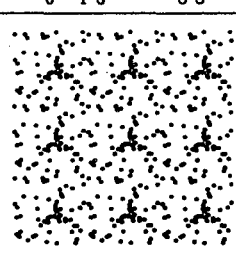
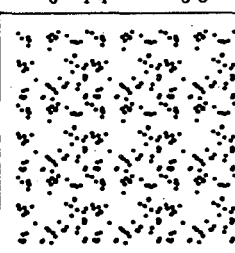
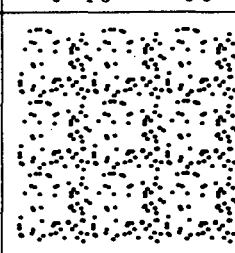
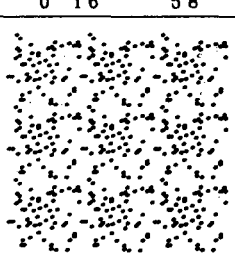
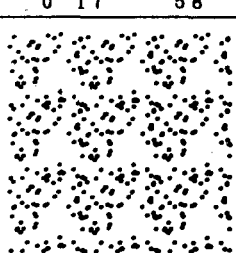
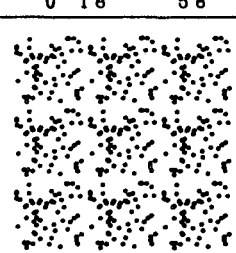
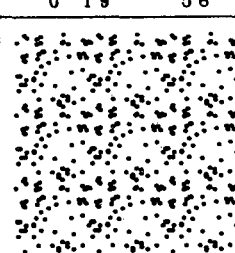
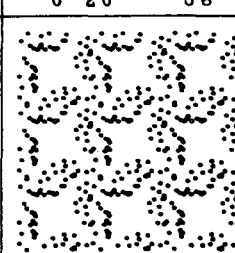
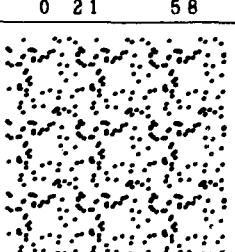
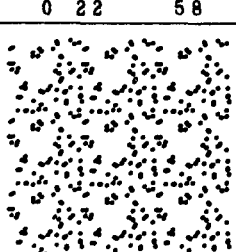
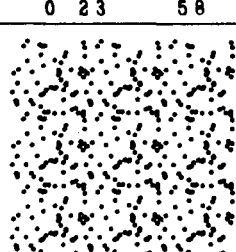
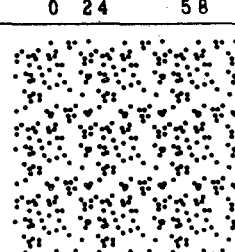


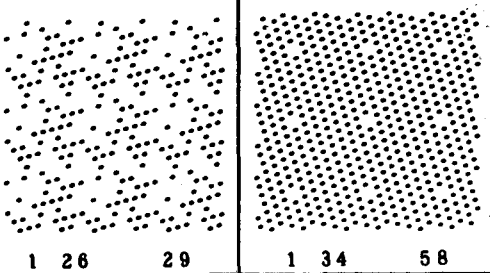
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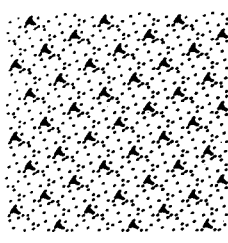
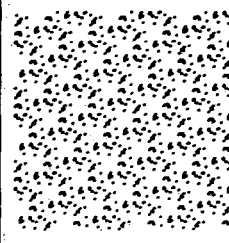
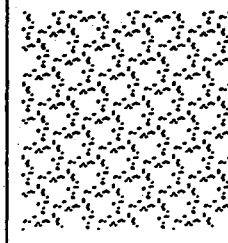
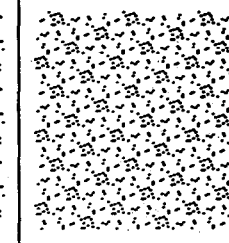
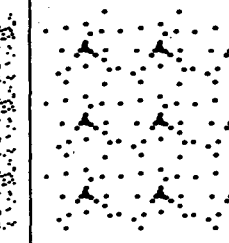
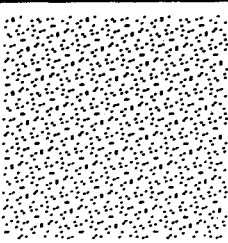
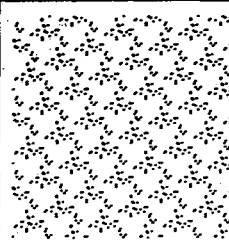
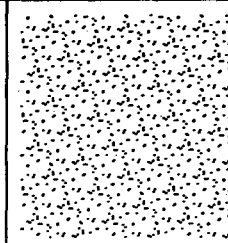
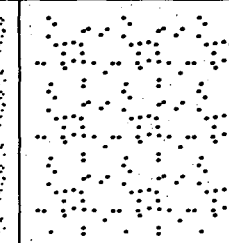
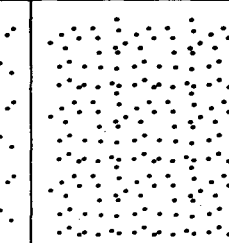
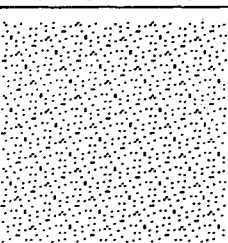
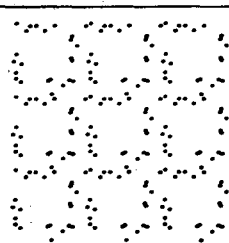
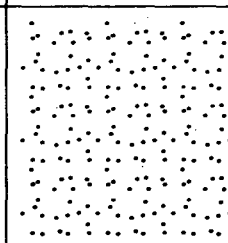
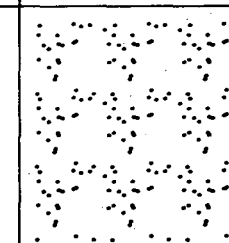
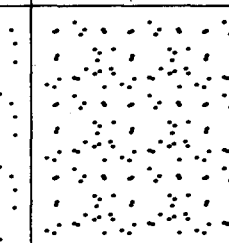
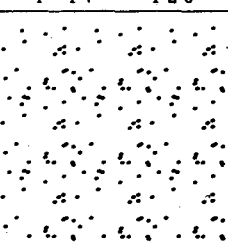
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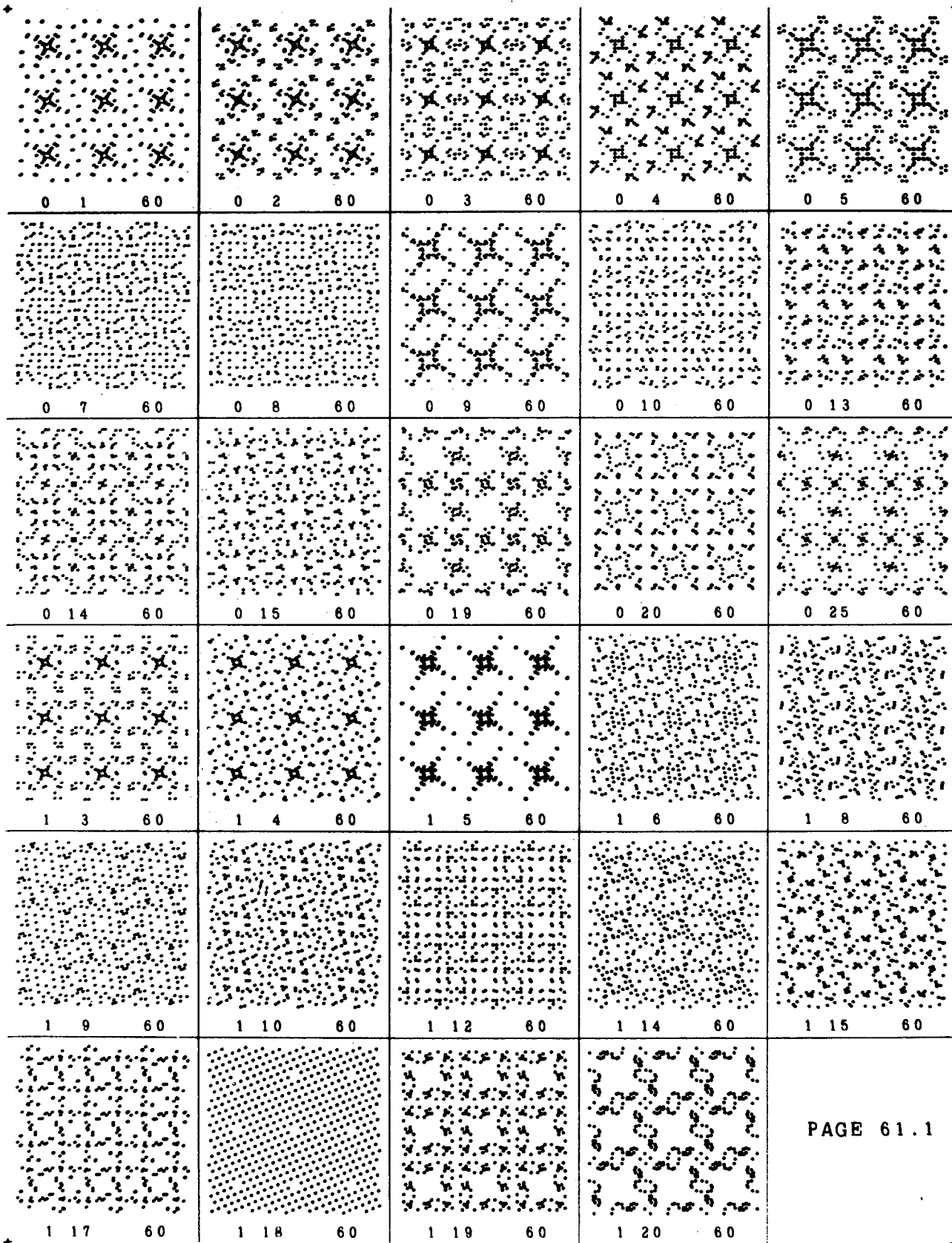
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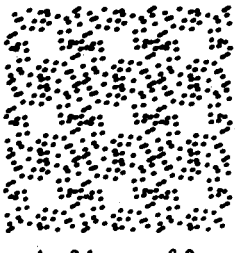
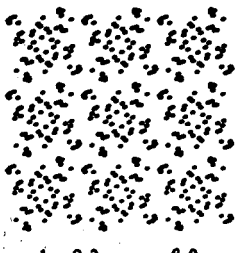
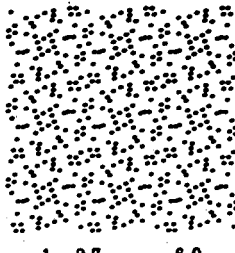
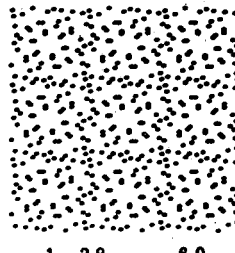
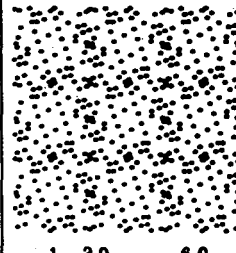
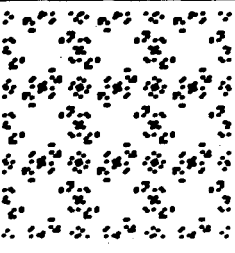
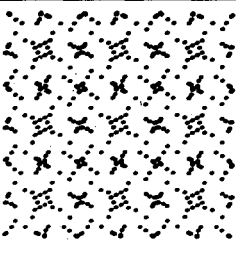
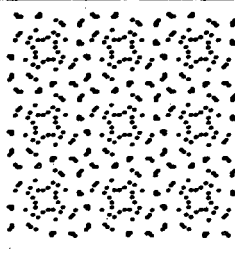
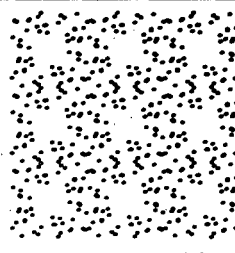
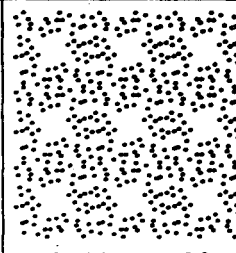
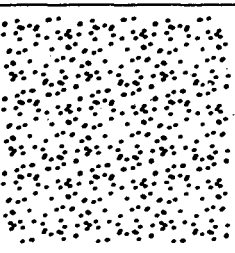
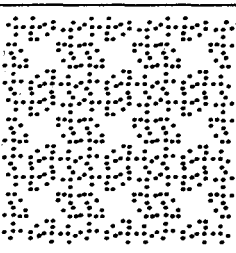
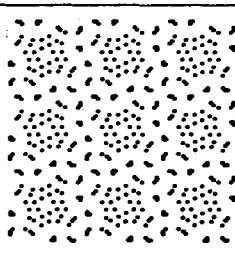
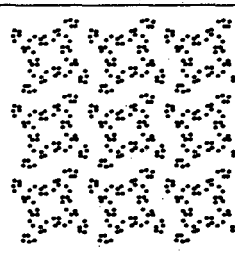
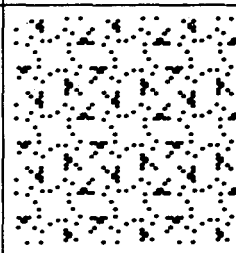
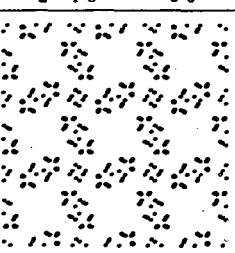
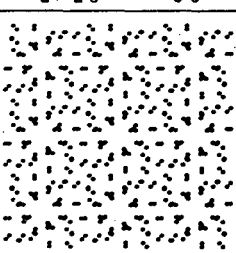
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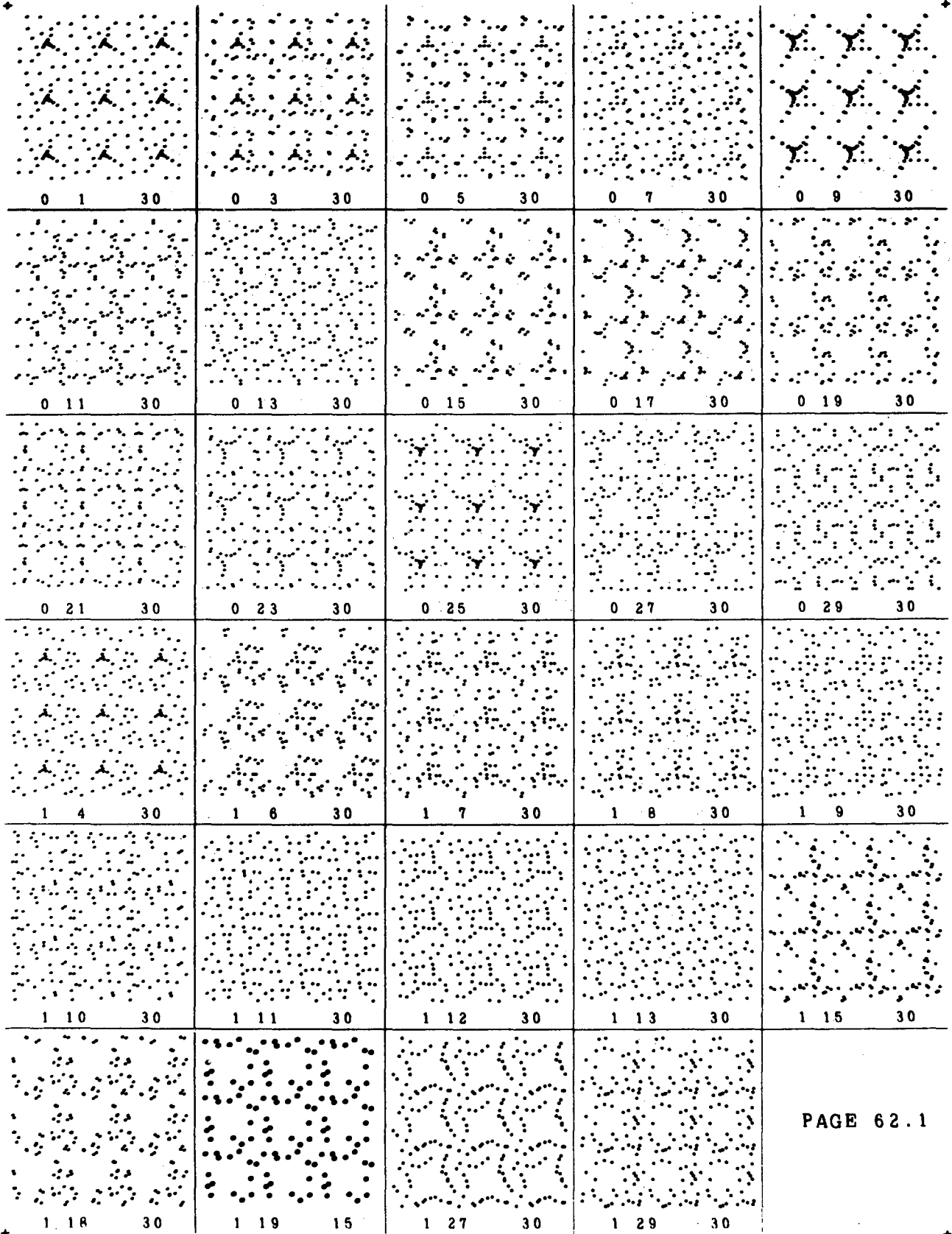


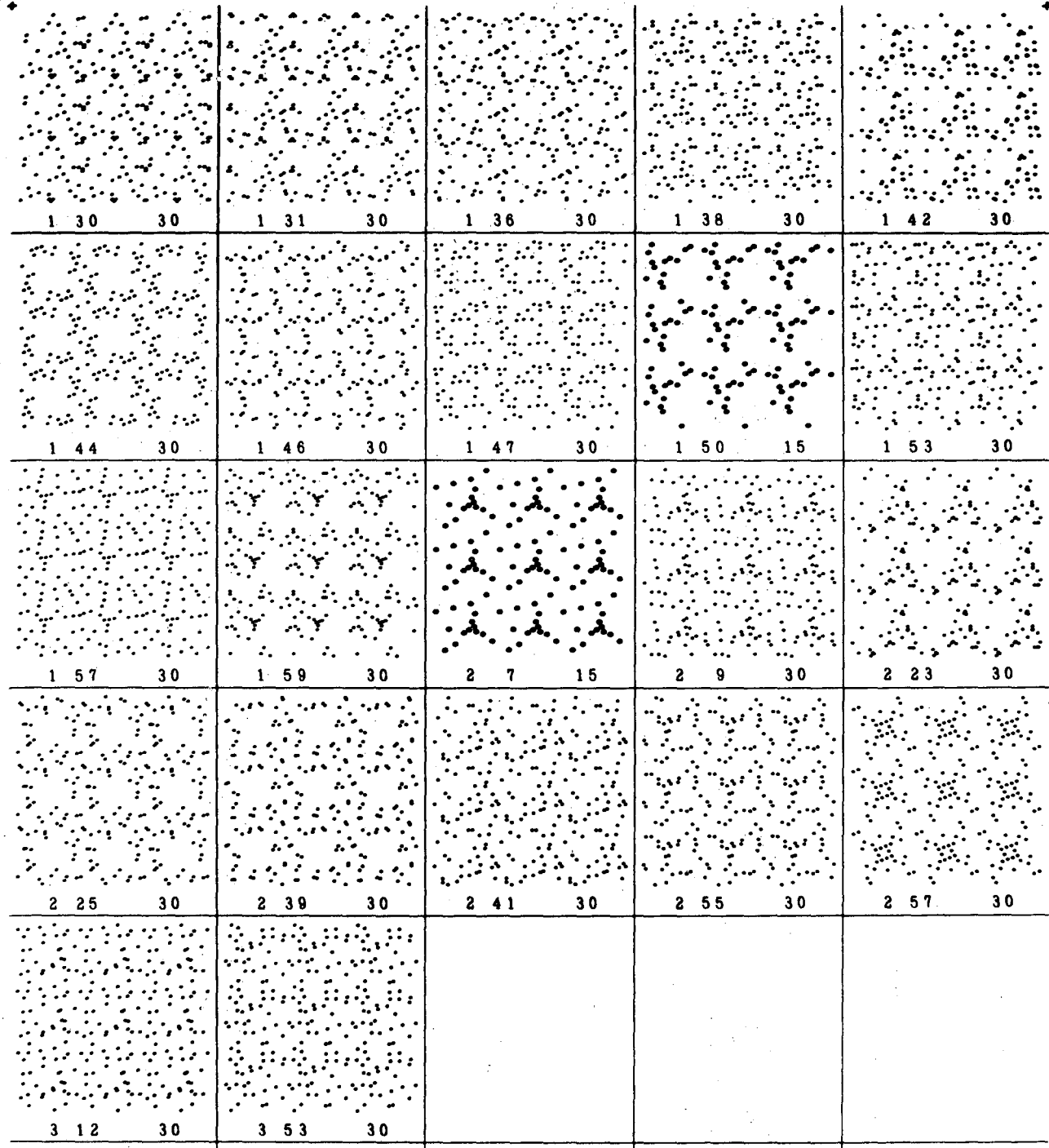
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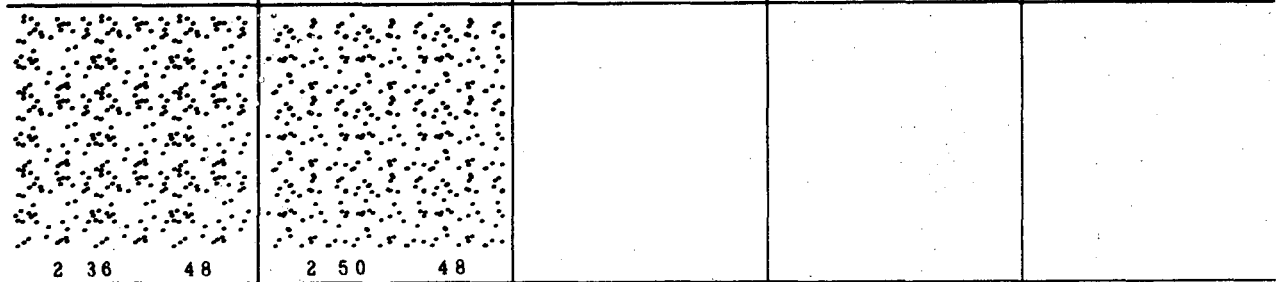
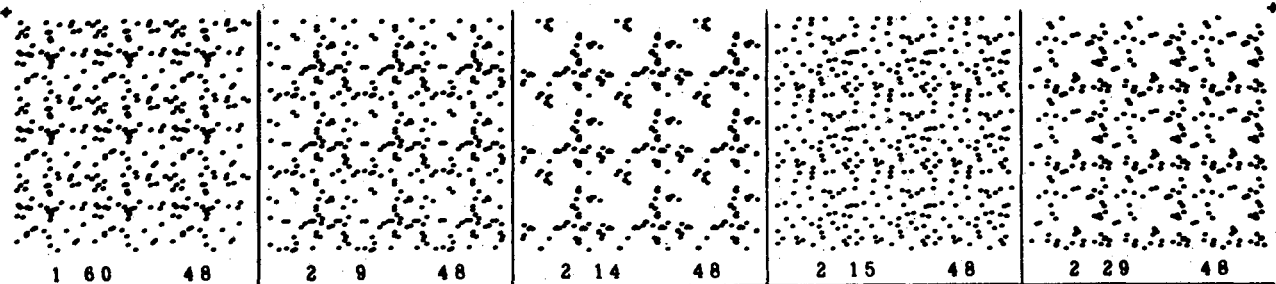


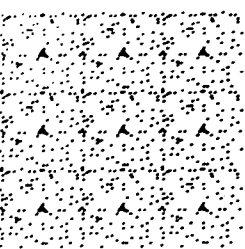
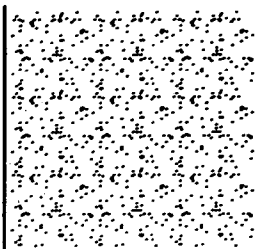
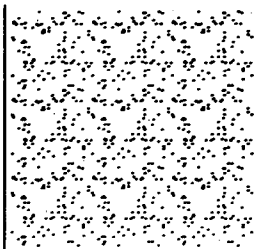
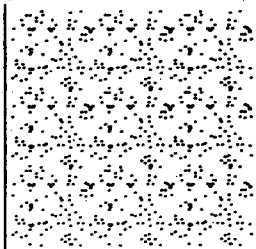
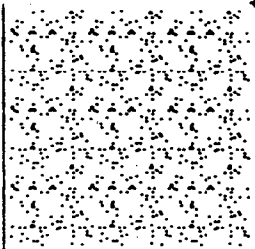
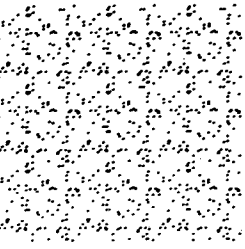
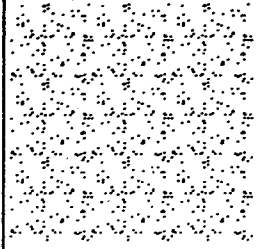
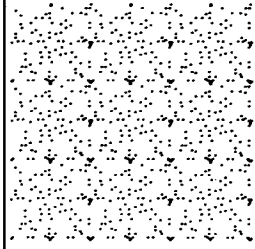
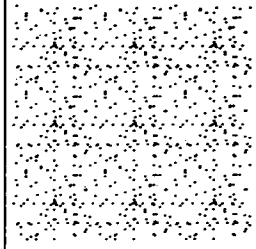
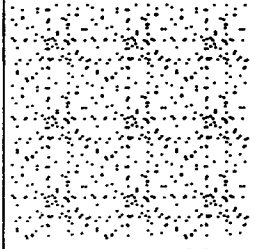
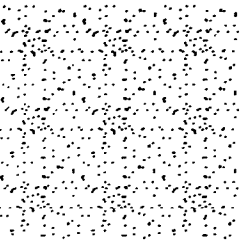
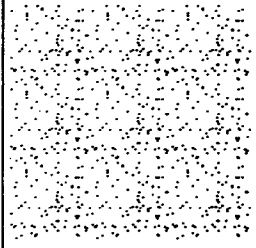
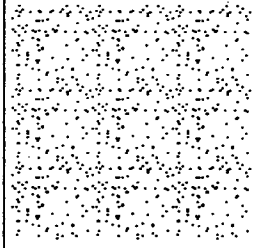
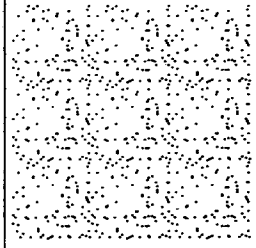
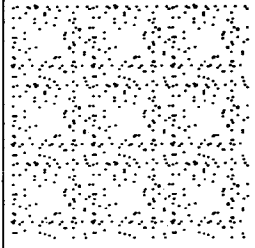
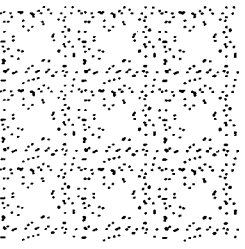
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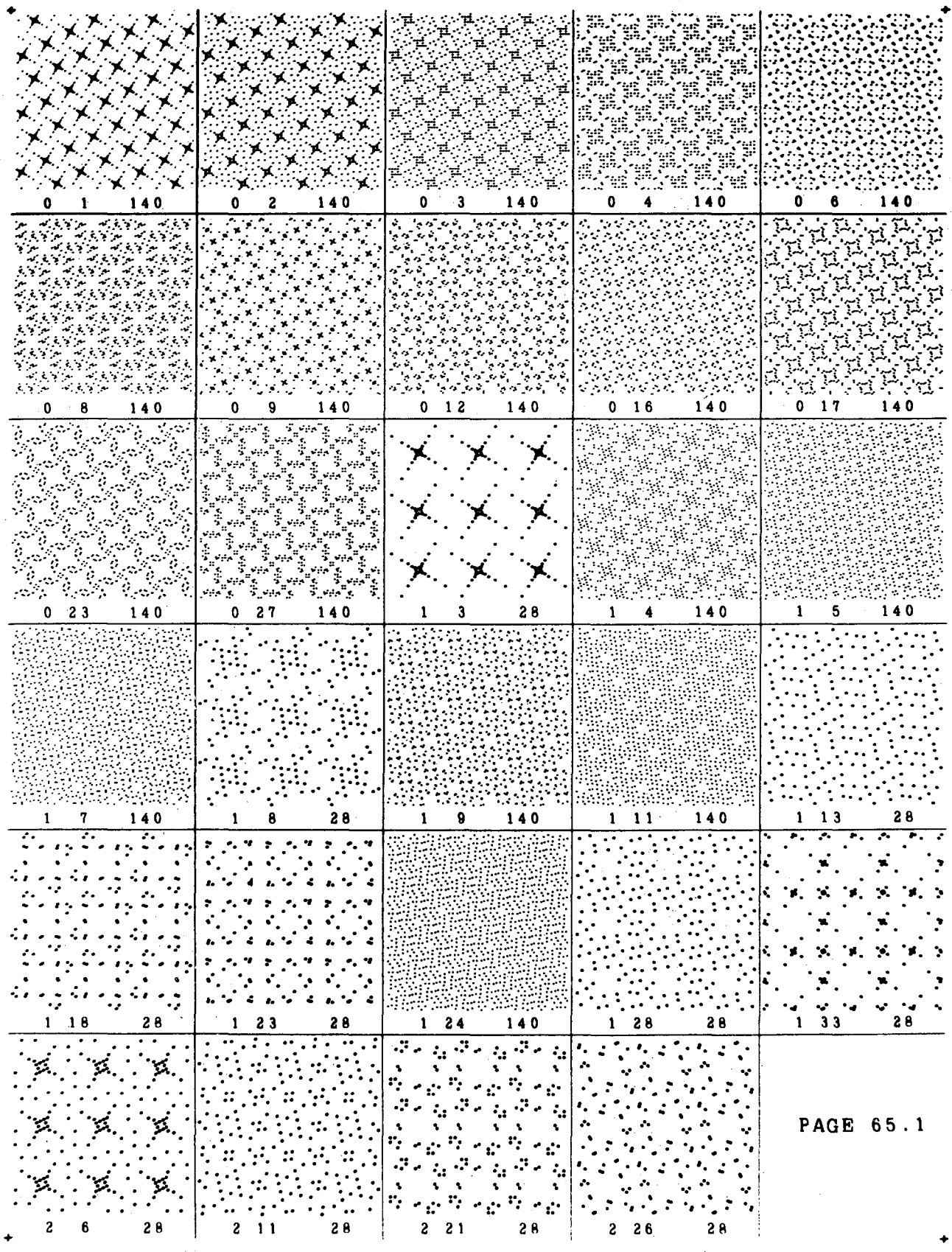


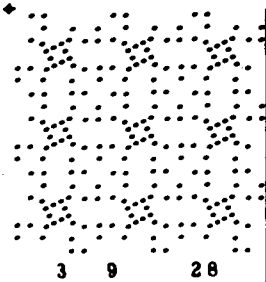
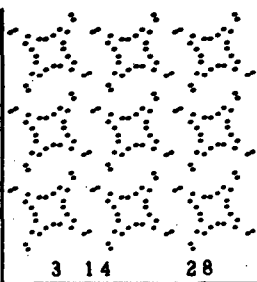
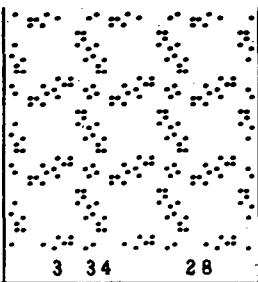
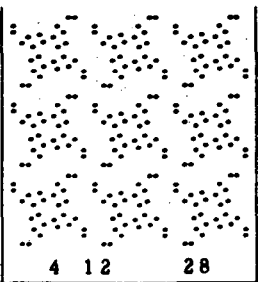
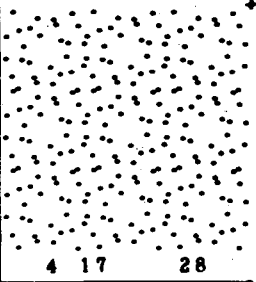
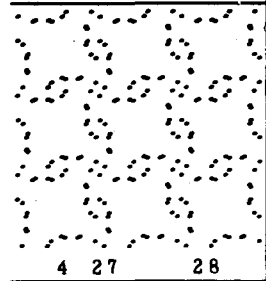
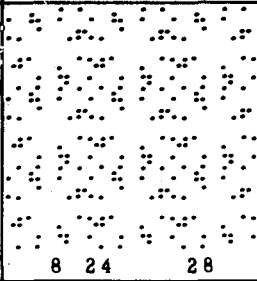


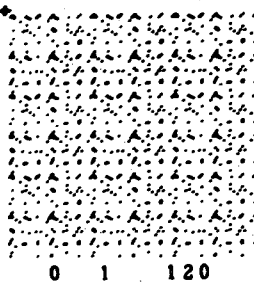
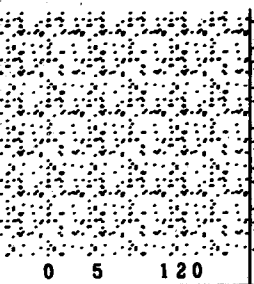
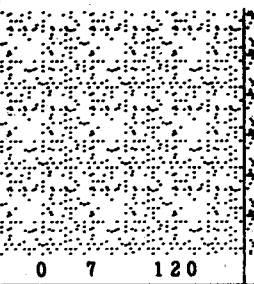
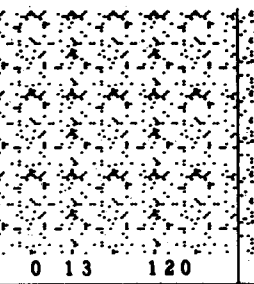
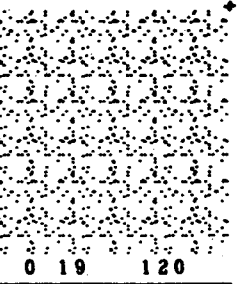
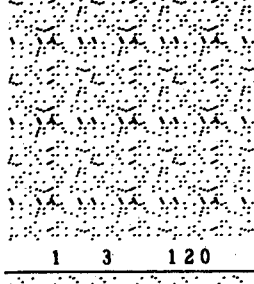
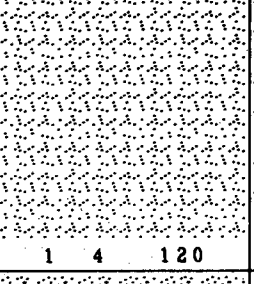
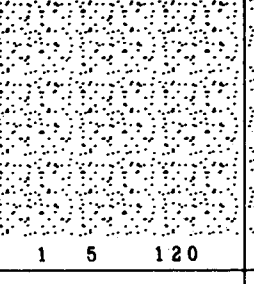
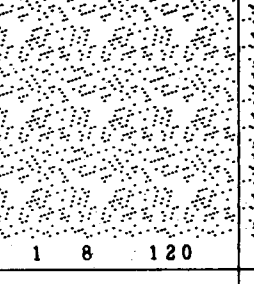
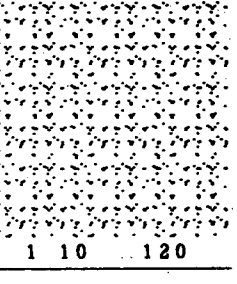
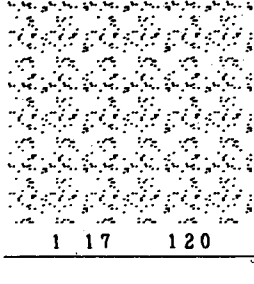
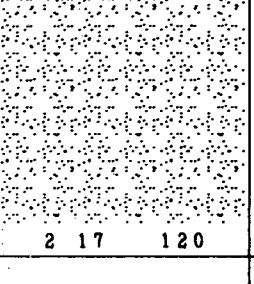
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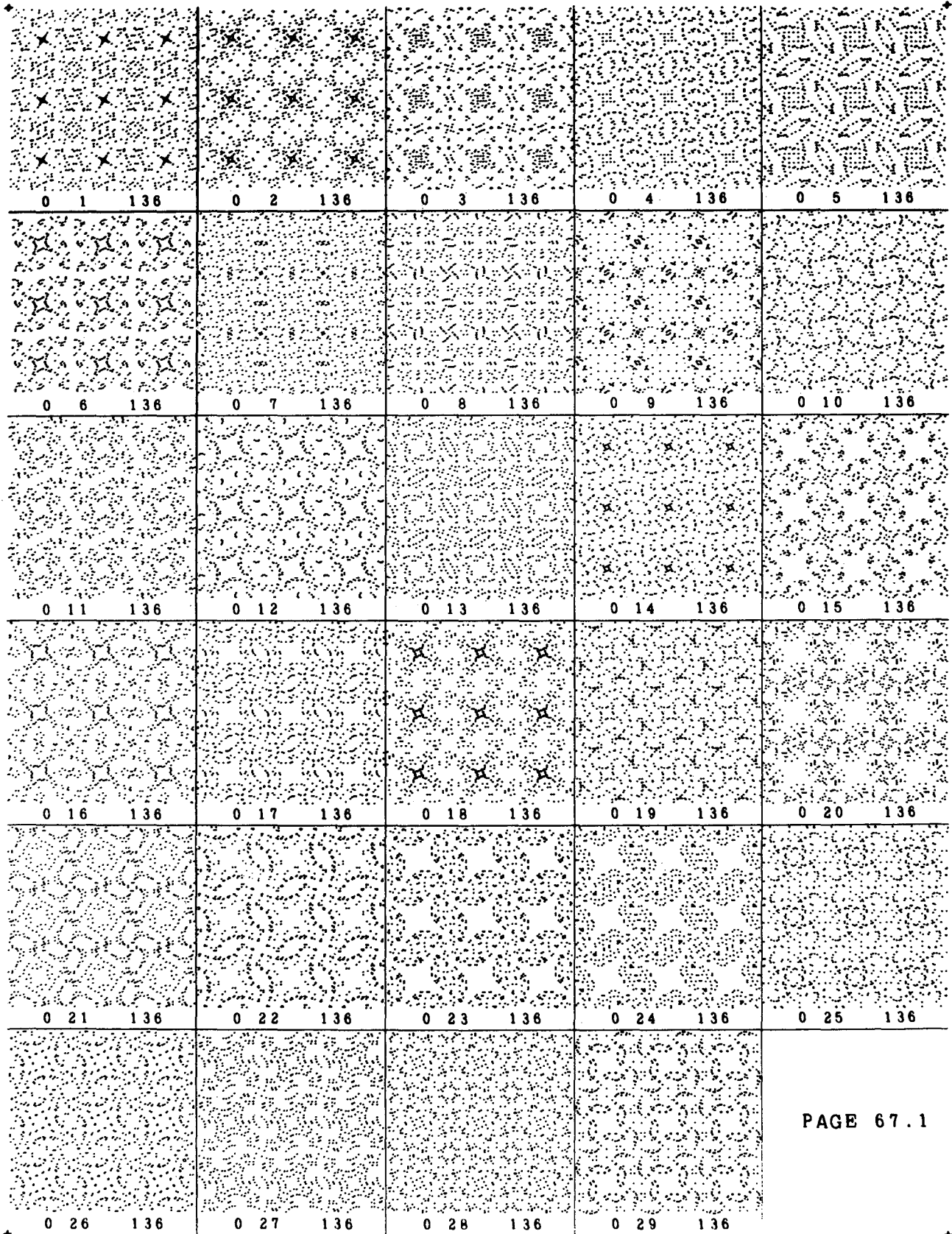


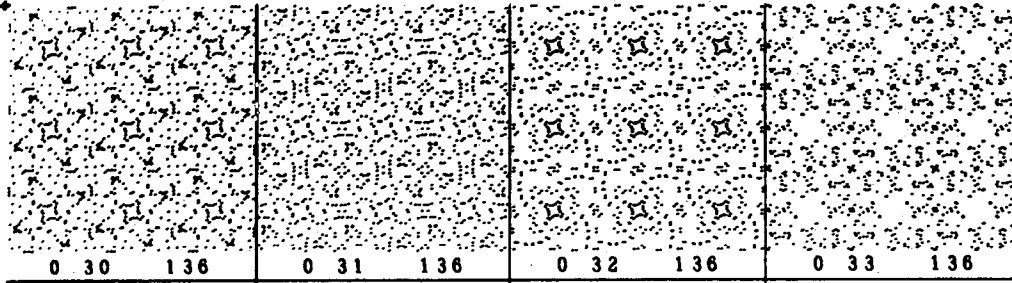
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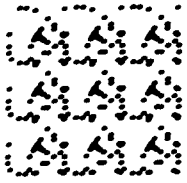
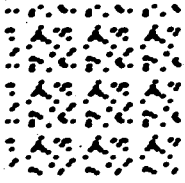
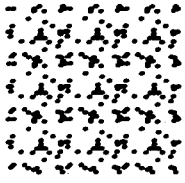
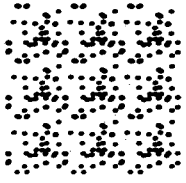
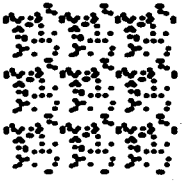
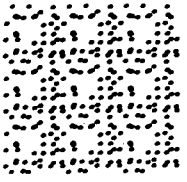
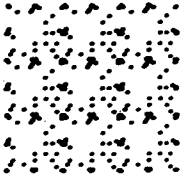
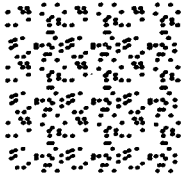
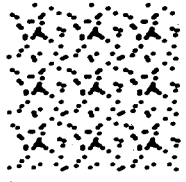
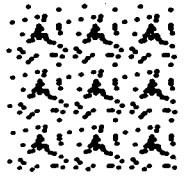
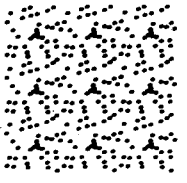
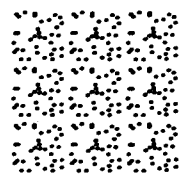
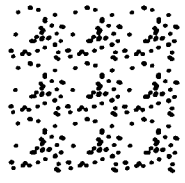
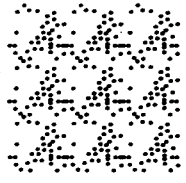
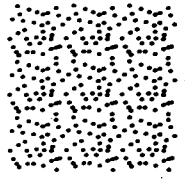
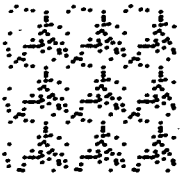
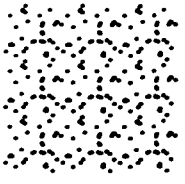
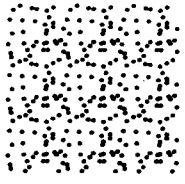
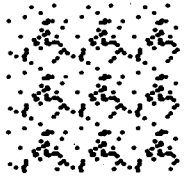

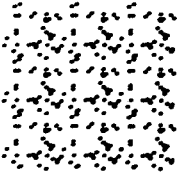
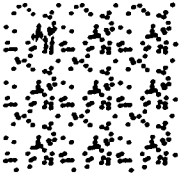
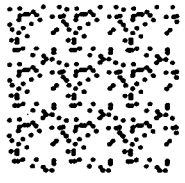
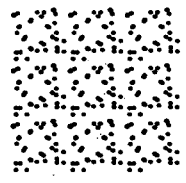
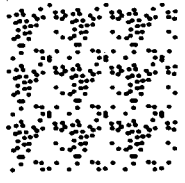
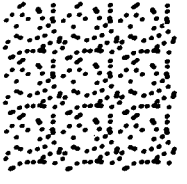
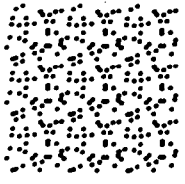
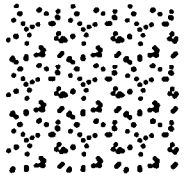
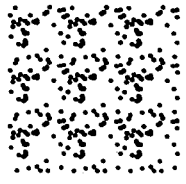
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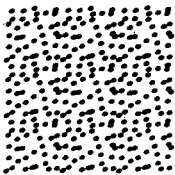

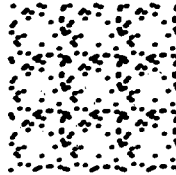
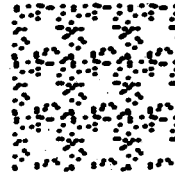
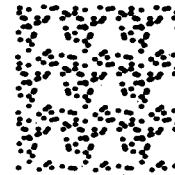
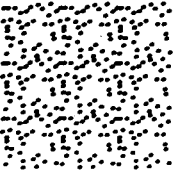
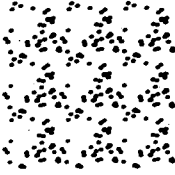
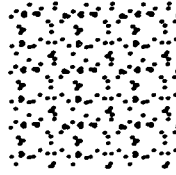
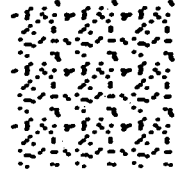
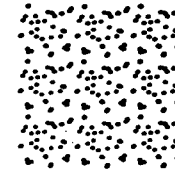
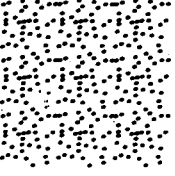
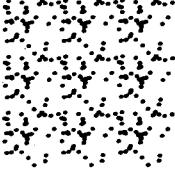

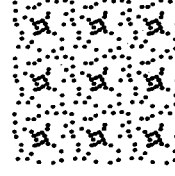
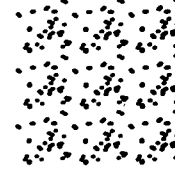
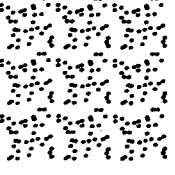
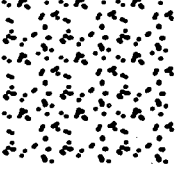
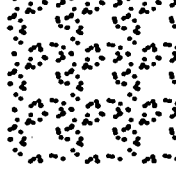
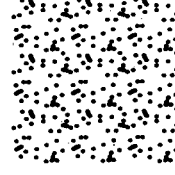
				
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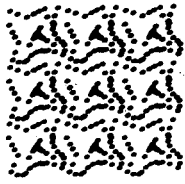
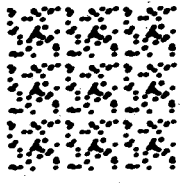
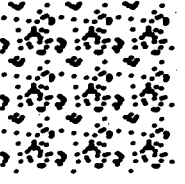
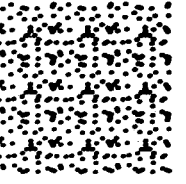
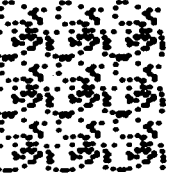
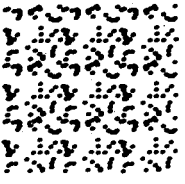
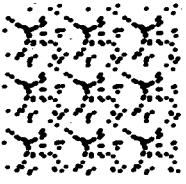
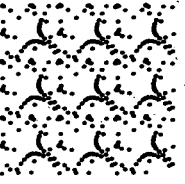
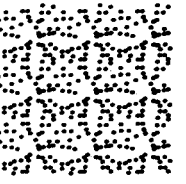
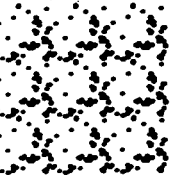
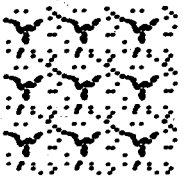
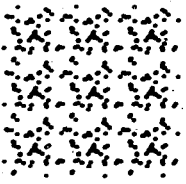
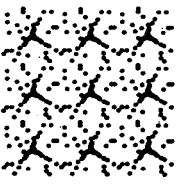
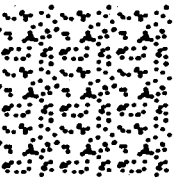
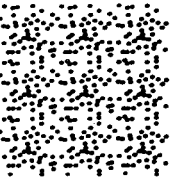
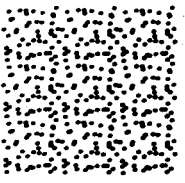
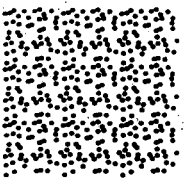
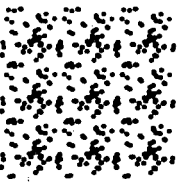
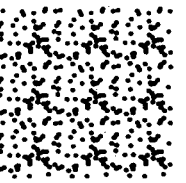
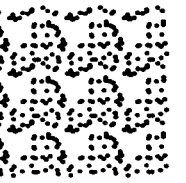
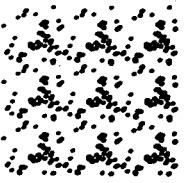
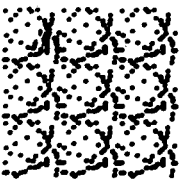

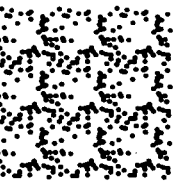
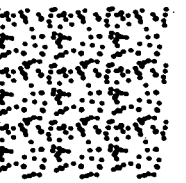
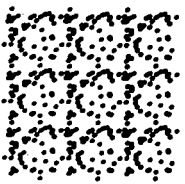
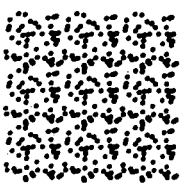
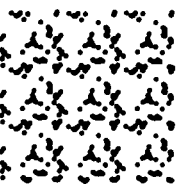
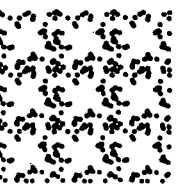


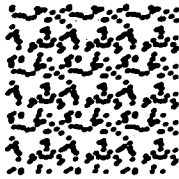
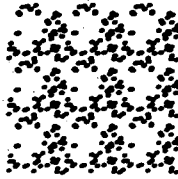
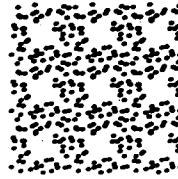
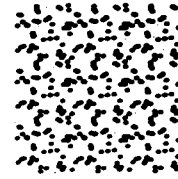
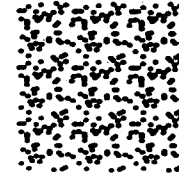
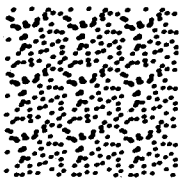
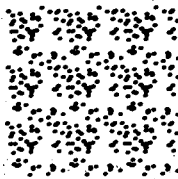
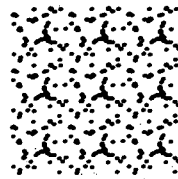
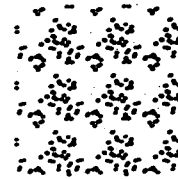
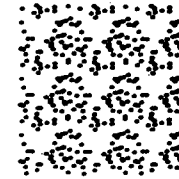
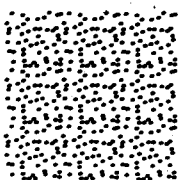
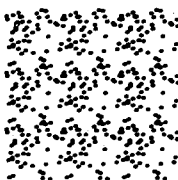
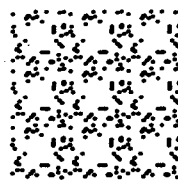
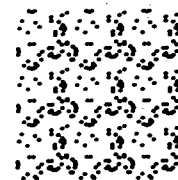
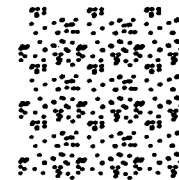


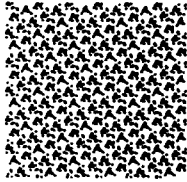
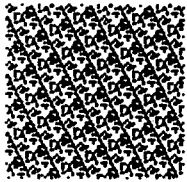
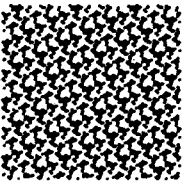
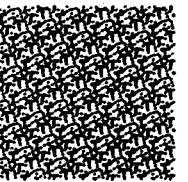
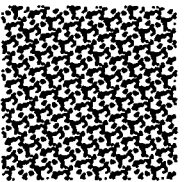
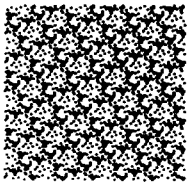
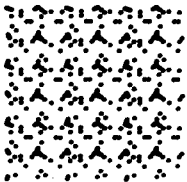
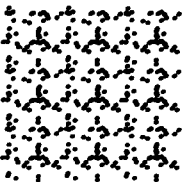
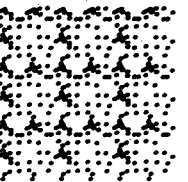
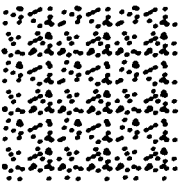
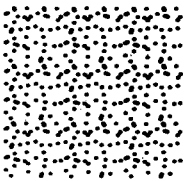
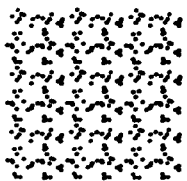
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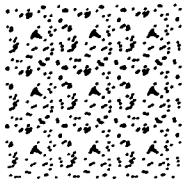
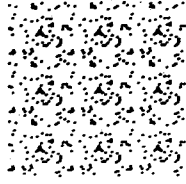
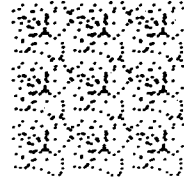
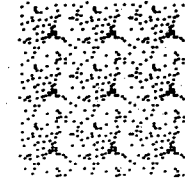

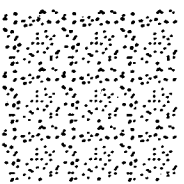
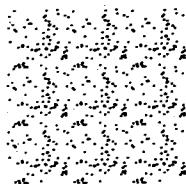
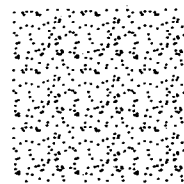
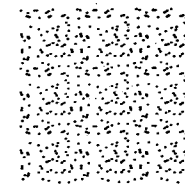
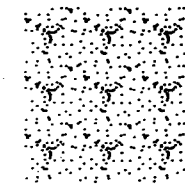
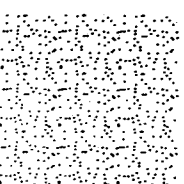
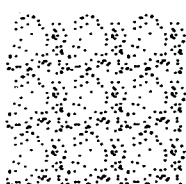

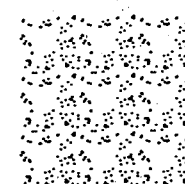
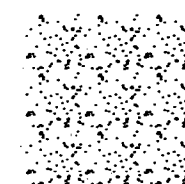
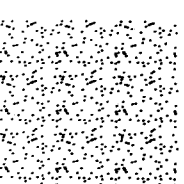


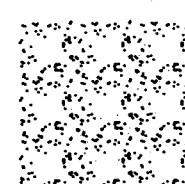
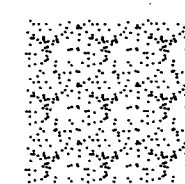
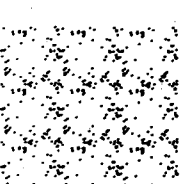
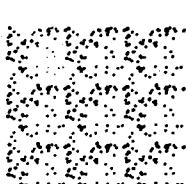
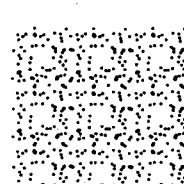
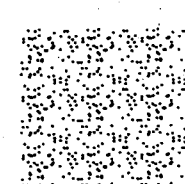
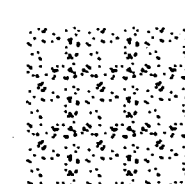
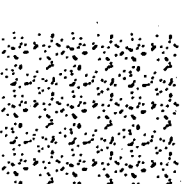
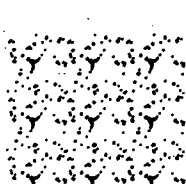
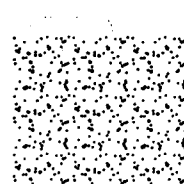
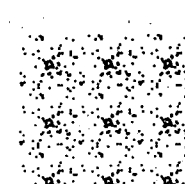
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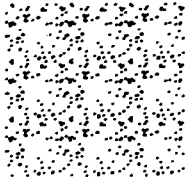
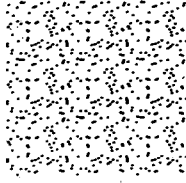

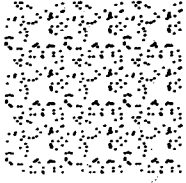
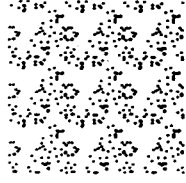
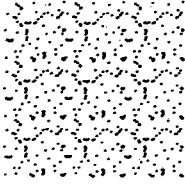
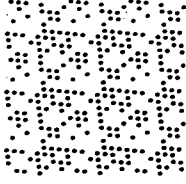
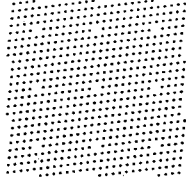
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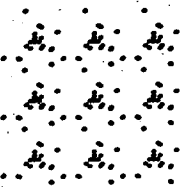
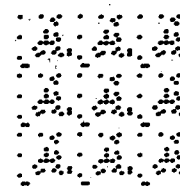
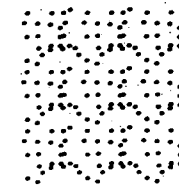
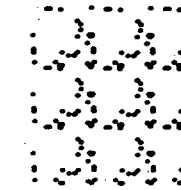
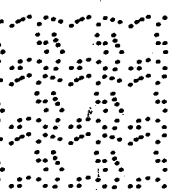
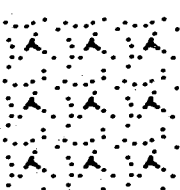
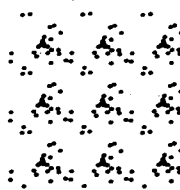
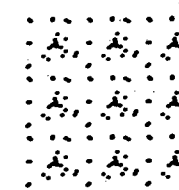
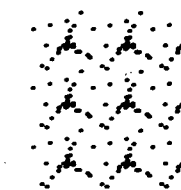
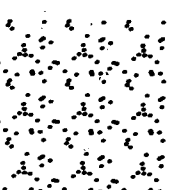
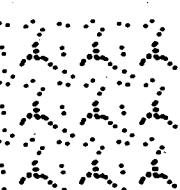
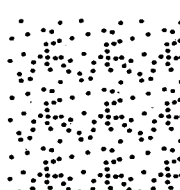
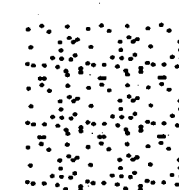
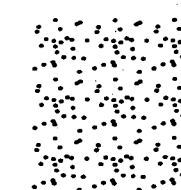
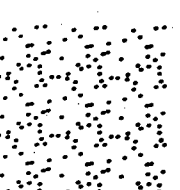
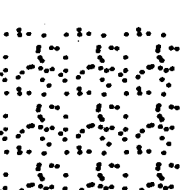
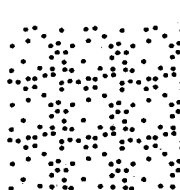
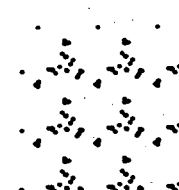
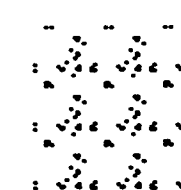
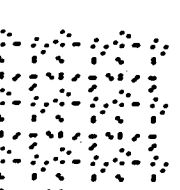
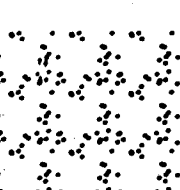
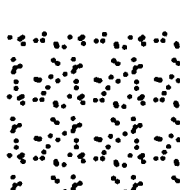
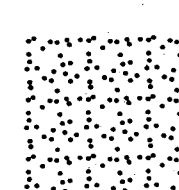
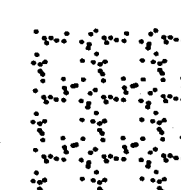
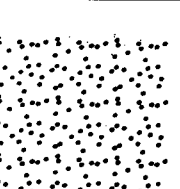
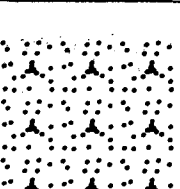
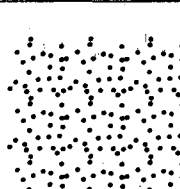
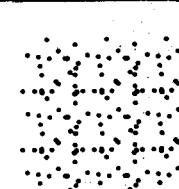
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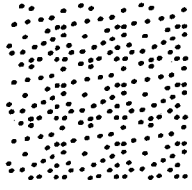
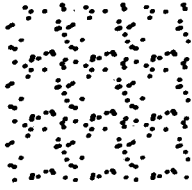
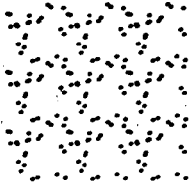
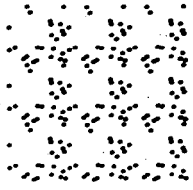
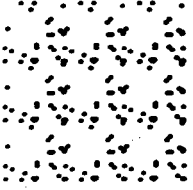
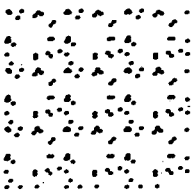
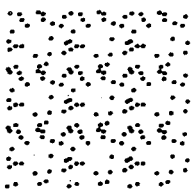
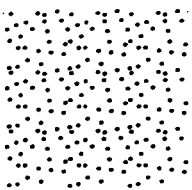
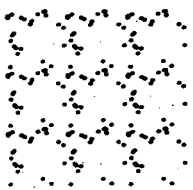
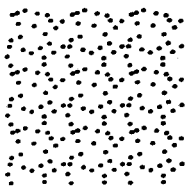
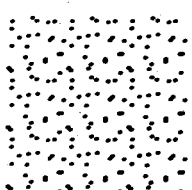
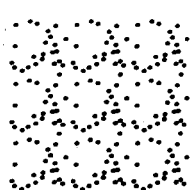
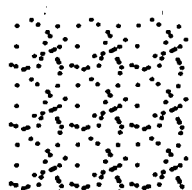
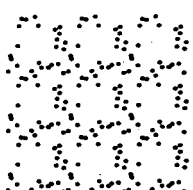
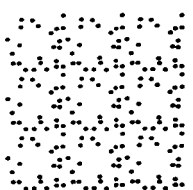
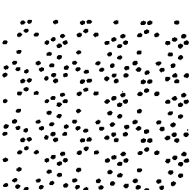
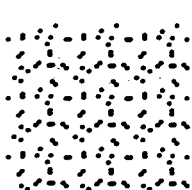
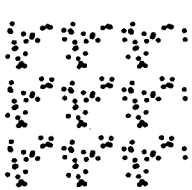
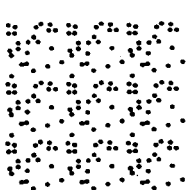
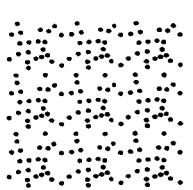
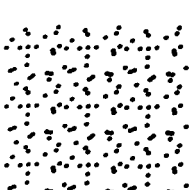
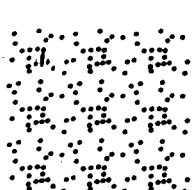
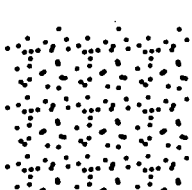
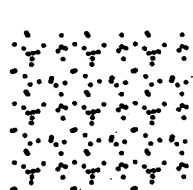
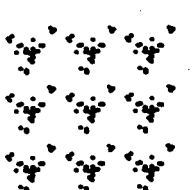
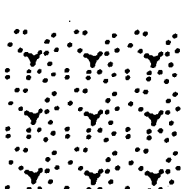
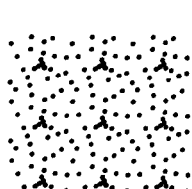
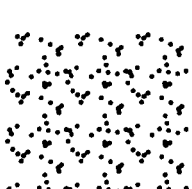
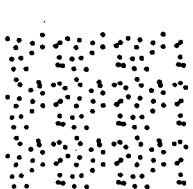
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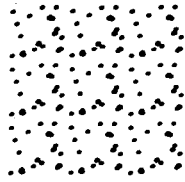
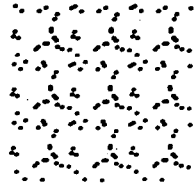
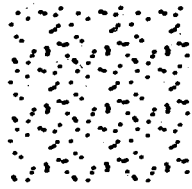
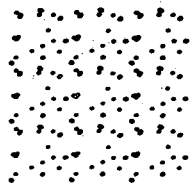
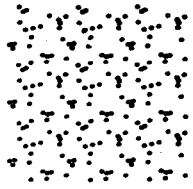
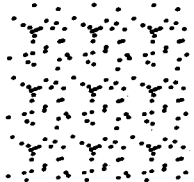
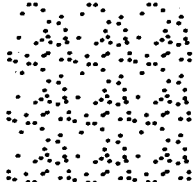
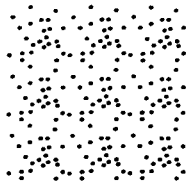
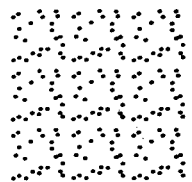
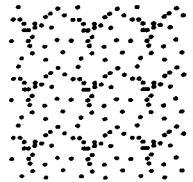
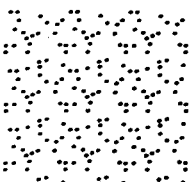
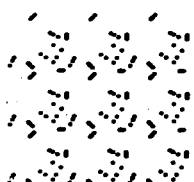
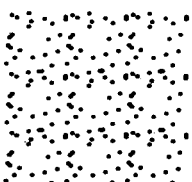
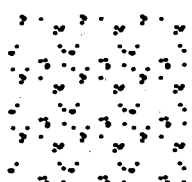
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 0 23 240	 1 3 48	 1 8 48	 1 13 48	 1 18 48
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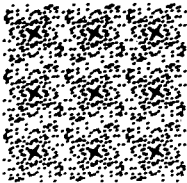
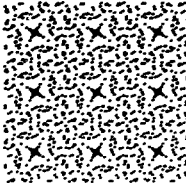
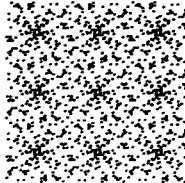
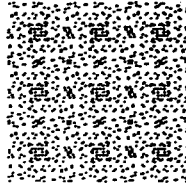
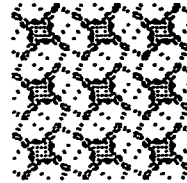
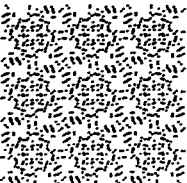
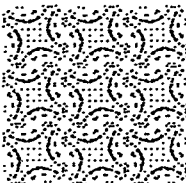
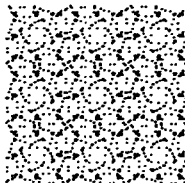
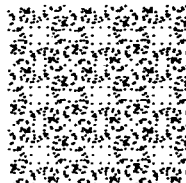

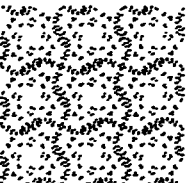
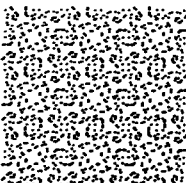
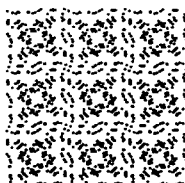
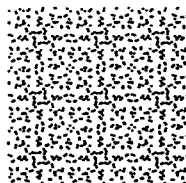
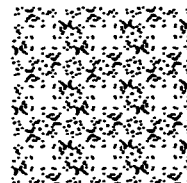

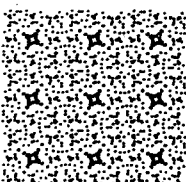
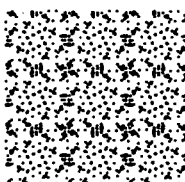
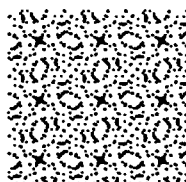
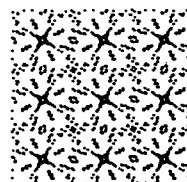
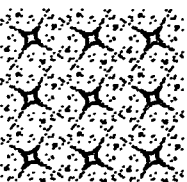
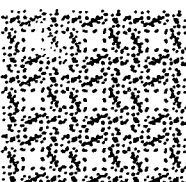
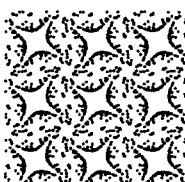

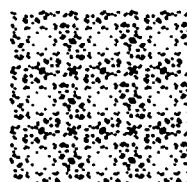
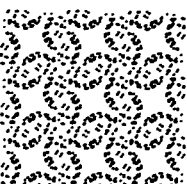

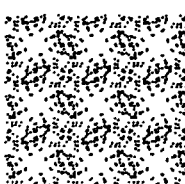
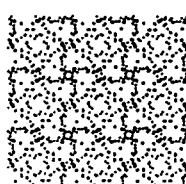
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 0 11 70	 0 12 70	 0 13 70	 0 14 70	 0 15 70
 0 16 70	 0 17 70	 0 18 70	 0 19 70	 0 20 70
 0 21 70	 0 22 70	 0 23 70	 0 24 70	 0 25 70
 0 26 70	 0 27 70	 0 28 70	 0 29 70	PAGE 71.1

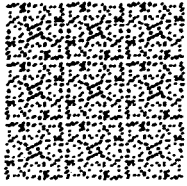
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 <p>0 35 70</p>	 <p>1 9 35</p>	 <p>1 63 70</p>		
				<p>PAGE 71.2</p>

 0 1 24	 0 5 24	 0 7 24	 0 11 24	 0 19 24
 0 23 24	 1 3 24	 1 4 24	 1 5 24	 1 6 24
 1 7 24	 1 8 24	 1 9 24	 1 11 24	 1 12 24
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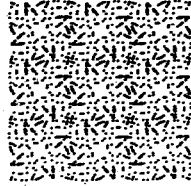
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 1 52 24	 1 55 24	 1 58 24	 1 60 24	 1 61 24
 1 62 24	 1 63 24	 1 64 24	 1 66 24	 1 67 24
 1 69 24	 2 7 24	 2 11 24	 2 25 24	<p>PAGE 72.2</p>

 <p>2 29 24</p>	 <p>2 37 24</p>	 <p>2 45 24</p>	 <p>2 49 24</p>	 <p>2 63 24</p>
 <p>2 67 24</p>	 <p>3 10 24</p>	 <p>3 11 24</p>	 <p>3 28 24</p>	 <p>3 64 24</p>
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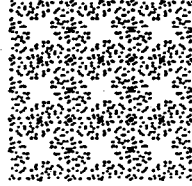
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 0 13 148	 0 15 148	 0 17 148	 0 18 148	 0 20 148
 0 23 148	 0 26 148	 0 31 148	 1 3 148	 1 4 148
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 1 18 148	 1 20 148	 1 24 148	 1 30 148	PAGE 73.1



1 32 148



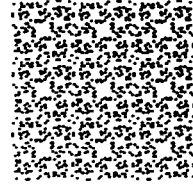
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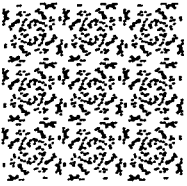
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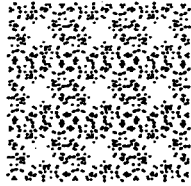
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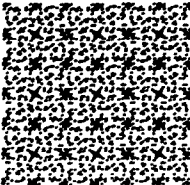
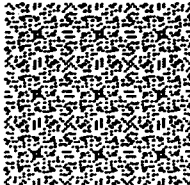
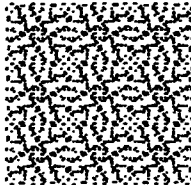
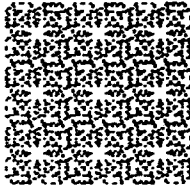
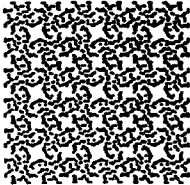
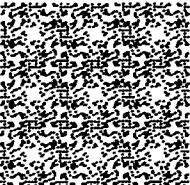
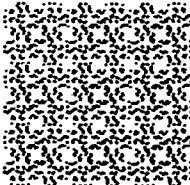
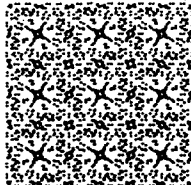
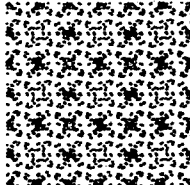
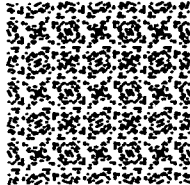
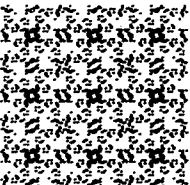
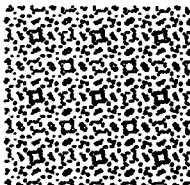
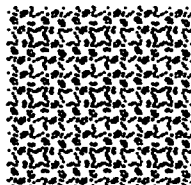
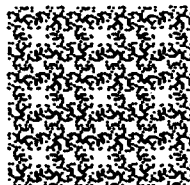
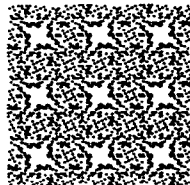
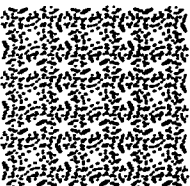
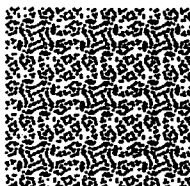
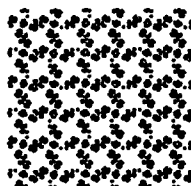
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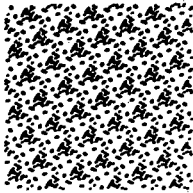
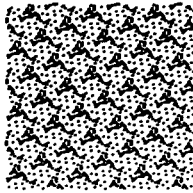
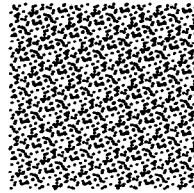
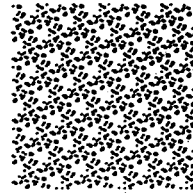
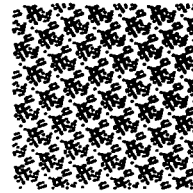
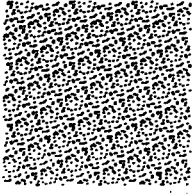
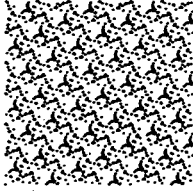
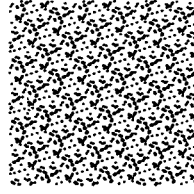
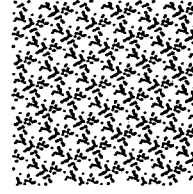
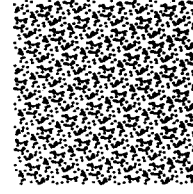
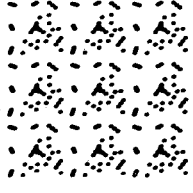
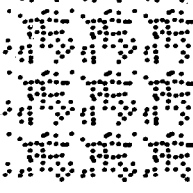
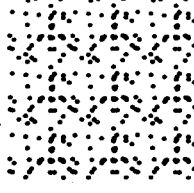
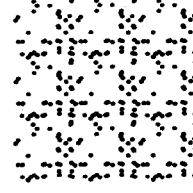
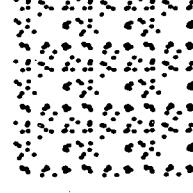
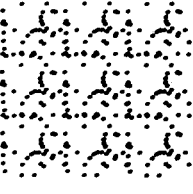
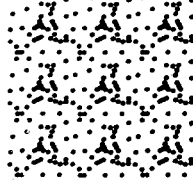
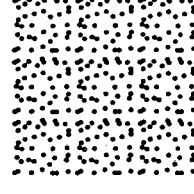
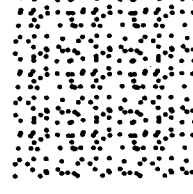
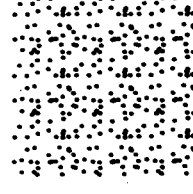


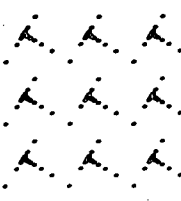
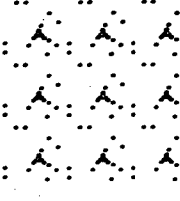
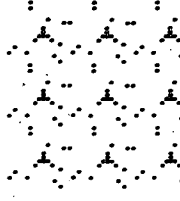
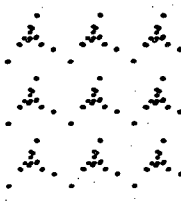
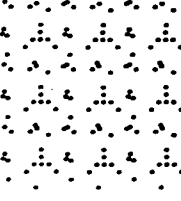
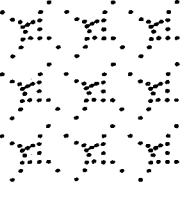
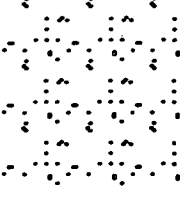
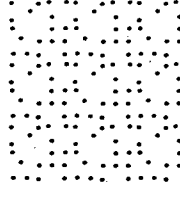
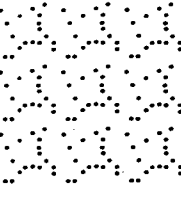
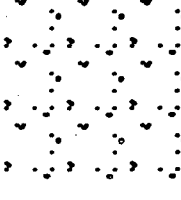
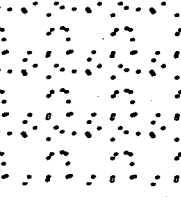
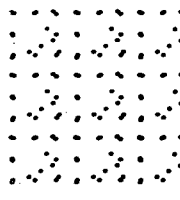
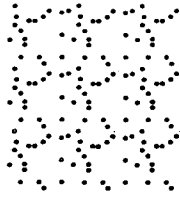
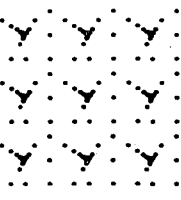
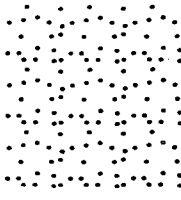
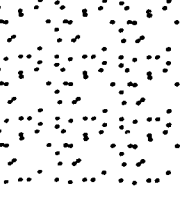
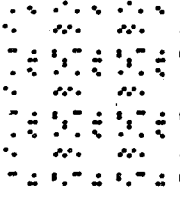
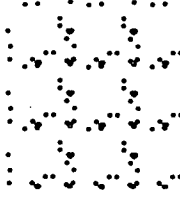
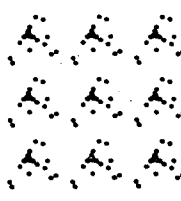
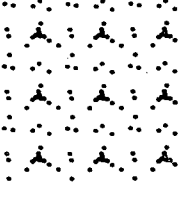
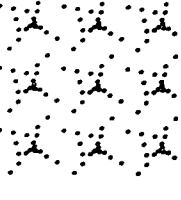
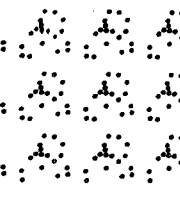
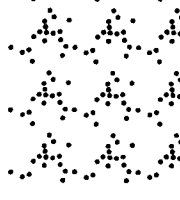
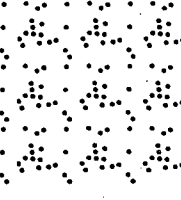
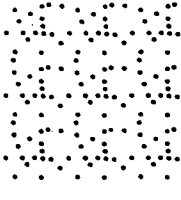
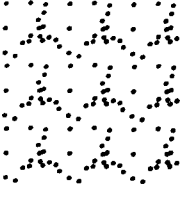
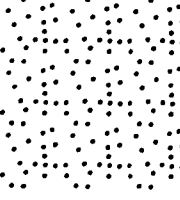
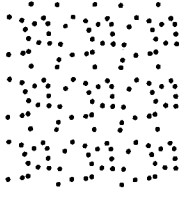
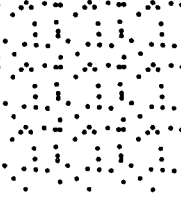
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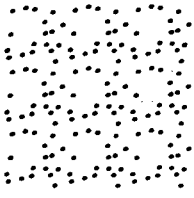
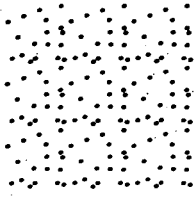
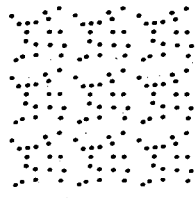

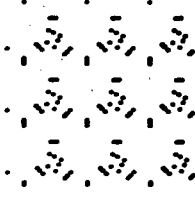
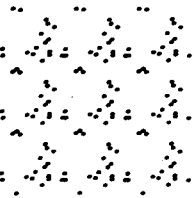
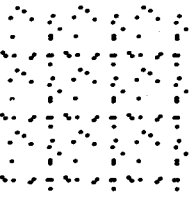
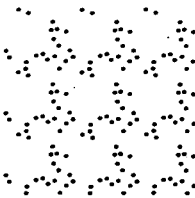
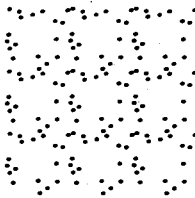
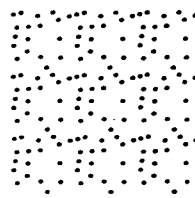
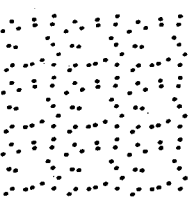
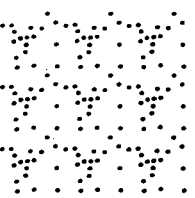
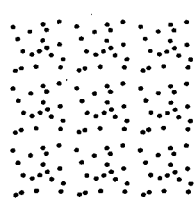
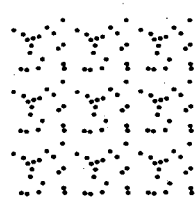
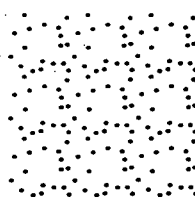
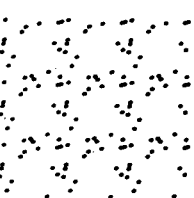
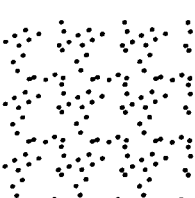
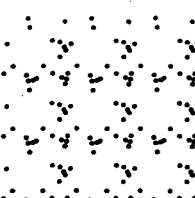
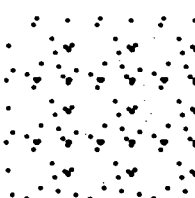
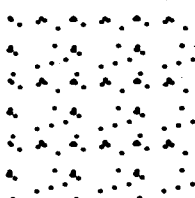
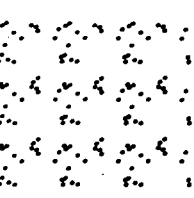
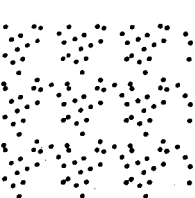
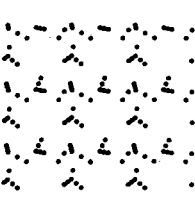
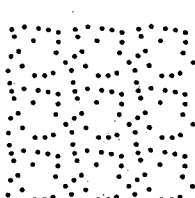
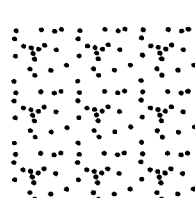
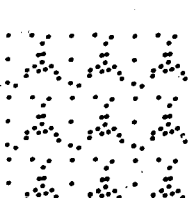
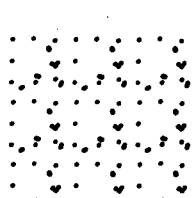
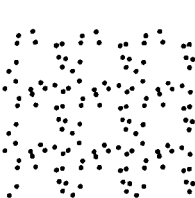
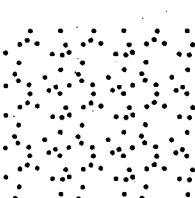


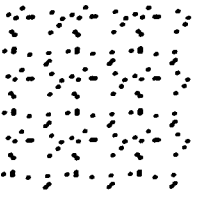
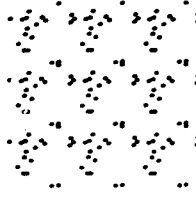
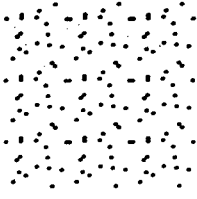
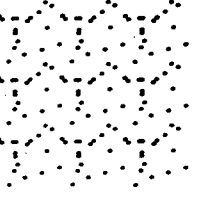
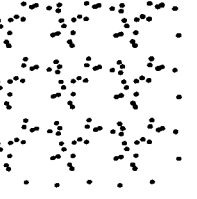
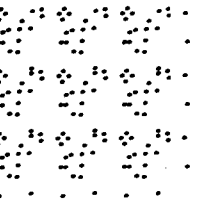
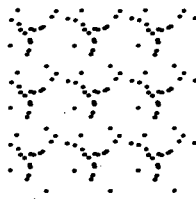
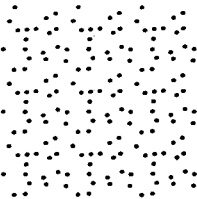
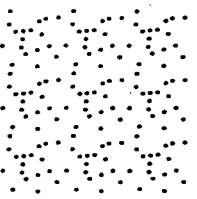
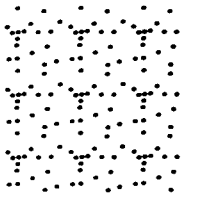
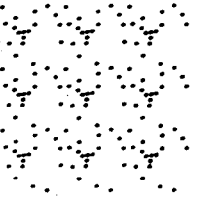
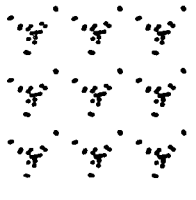
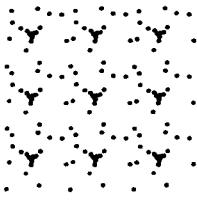
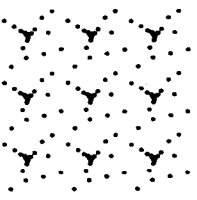
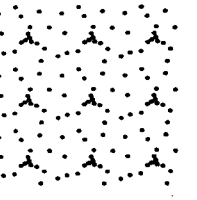
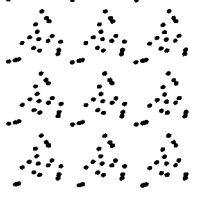
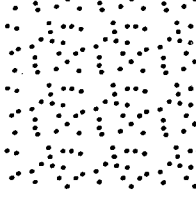
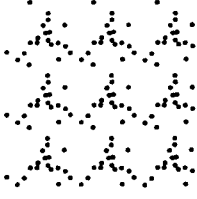
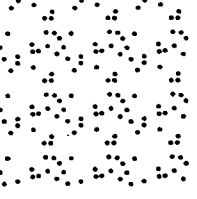
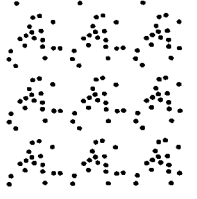
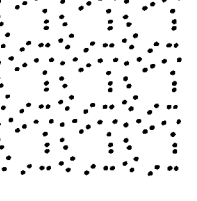
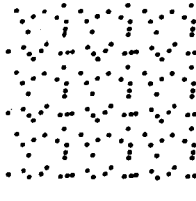
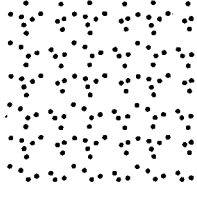
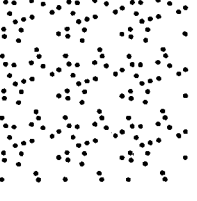
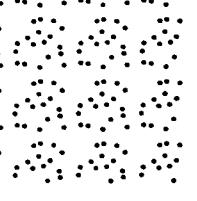
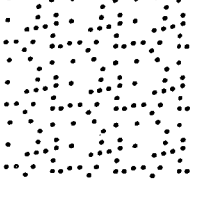
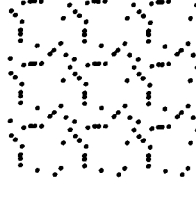
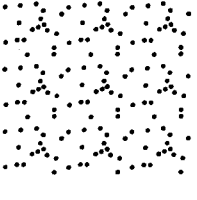
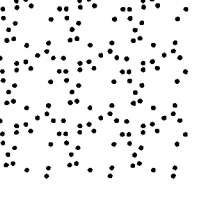
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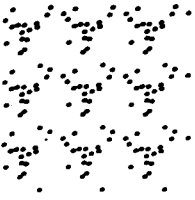
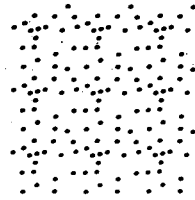
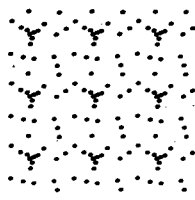
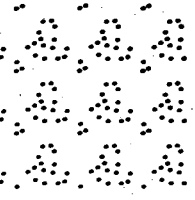
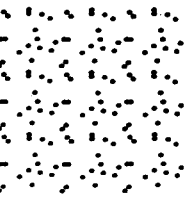
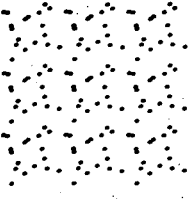
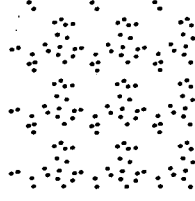
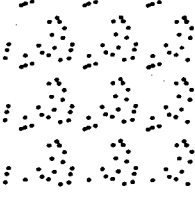
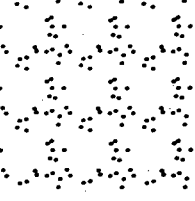
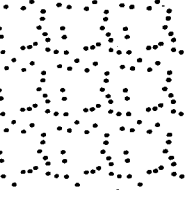
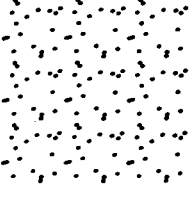
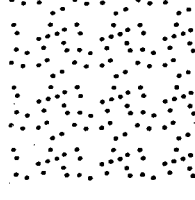
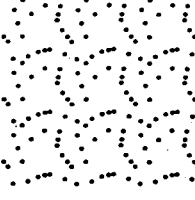
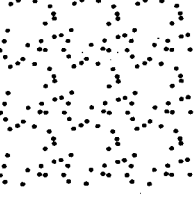
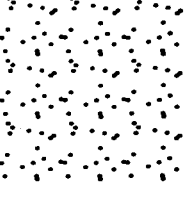
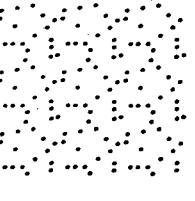
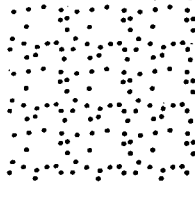
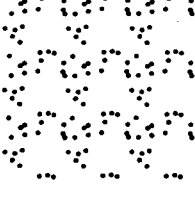
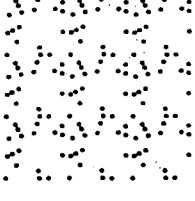
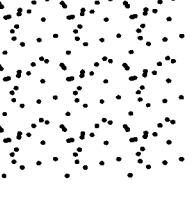
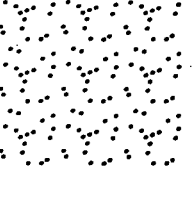
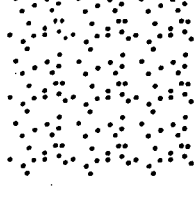
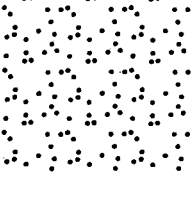
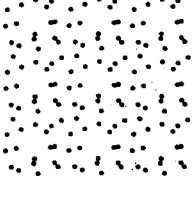
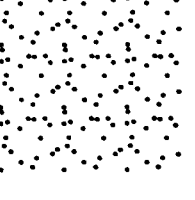
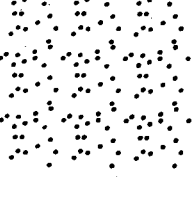
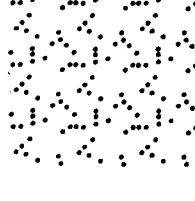
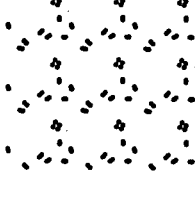
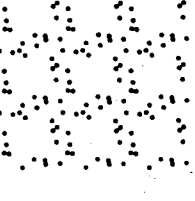
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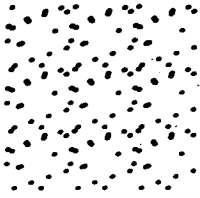
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 <p>1 3 40</p>	 <p>1 8 40</p>	 <p>1 13 40</p>	 <p>1 18 40</p>	 <p>1 23 40</p>
 <p>1 38 40</p>	 <p>2 6 40</p>	 <p>2 31 40</p>	 <p>3 19 40</p>	 <p>4 17 40</p>

 0 1 18	 0 3 18	 0 5 18	 0 7 18	 0 9 18
 0 11 18	 0 13 18	 0 15 18	 0 17 18	 0 21 18
 0 23 18	 0 25 18	 0 27 18	 0 29 18	 0 31 18
 0 33 18	 0 35 18	 0 37 18	 1 4 18	 1 5 18
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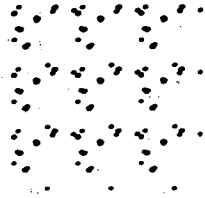
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 1 34 18	 1 35 18	 1 36 18	 1 37 18	 1 38 18
 1 41 18	 1 42 18	 1 43 18	 1 44 18	 1 46 18
 1 48 18	 1 51 18	 1 54 18	 1 55 18	PAGE 76.2

 1 56 18	 1 57 18	 1 58 18	 1 59 18	 1 61 18
 1 63 18	 1 64 18	 1 65 18	 1 67 18	 1 69 18
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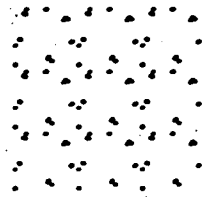
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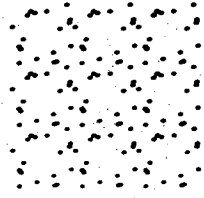
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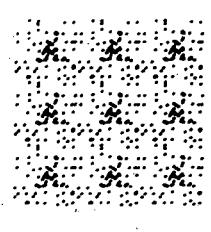
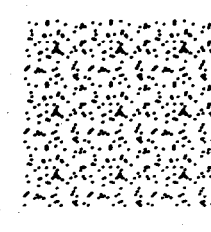
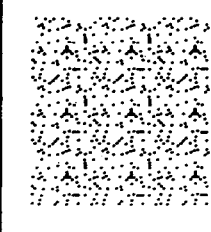
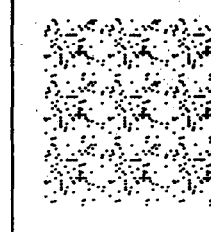
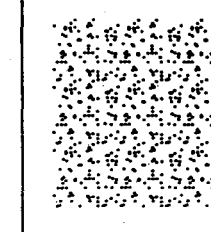
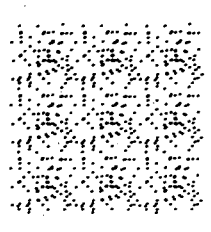
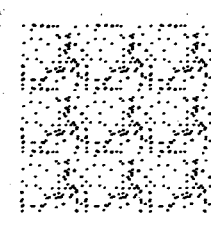
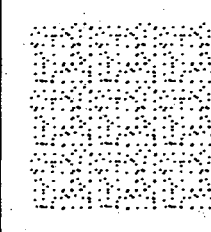
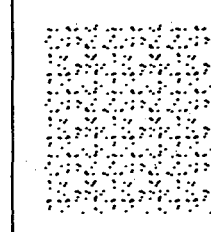
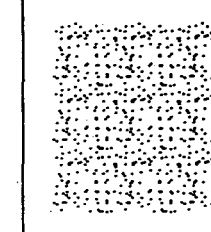
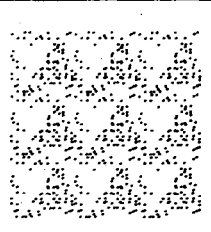
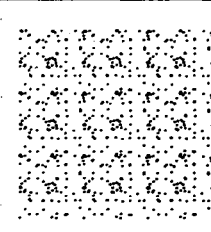
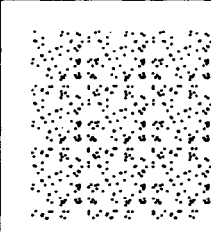
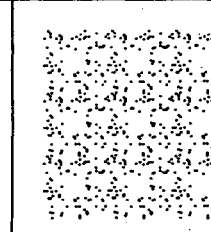
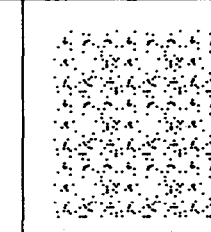
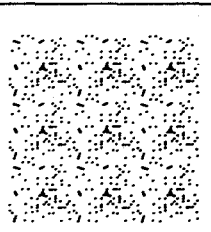
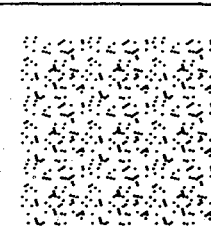
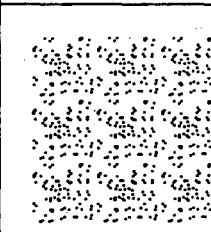
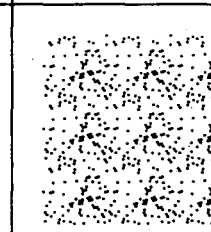
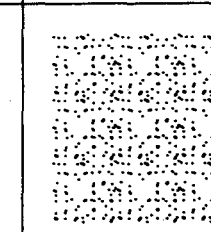
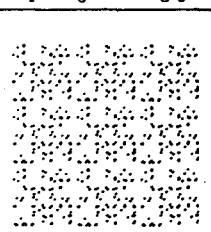
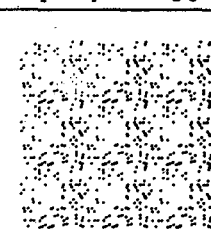
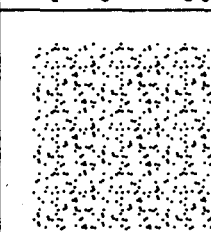
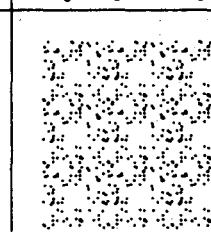
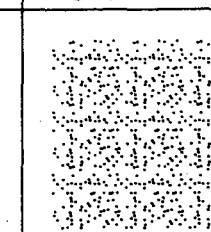
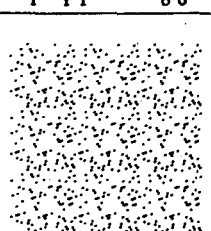
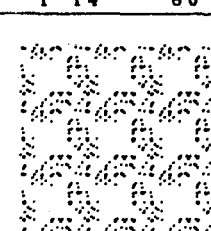
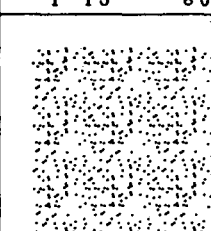
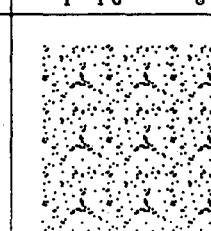
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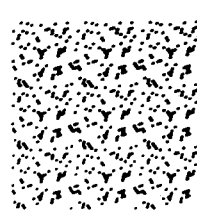

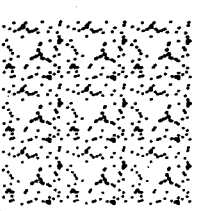
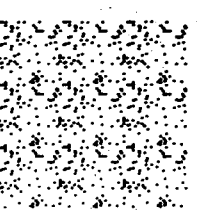
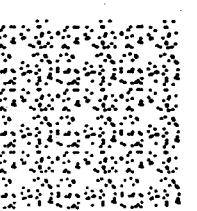
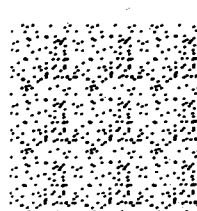
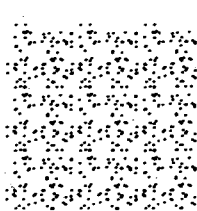


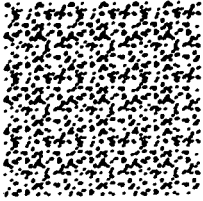
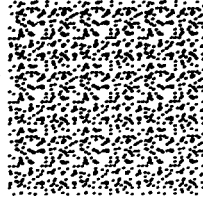
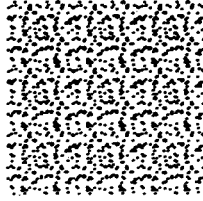
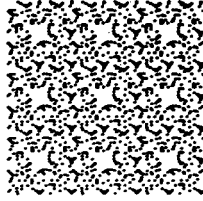
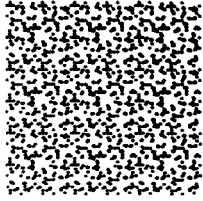
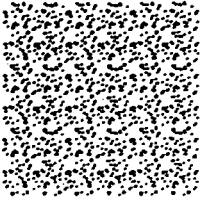
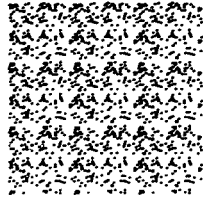
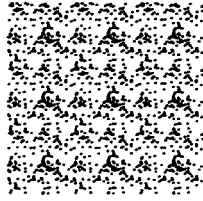
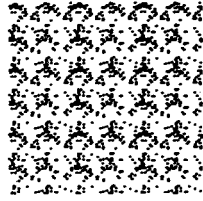
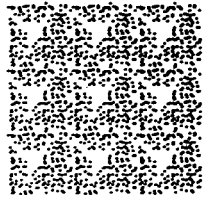
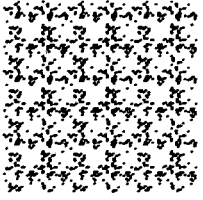
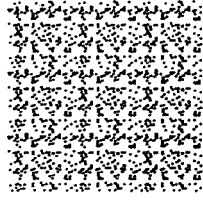
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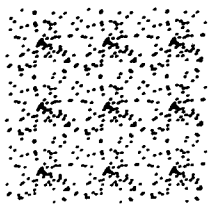
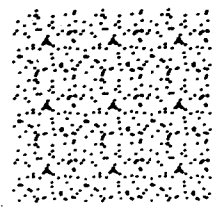
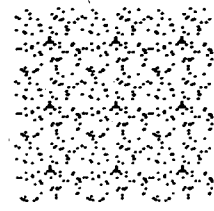
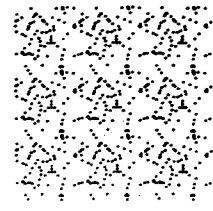
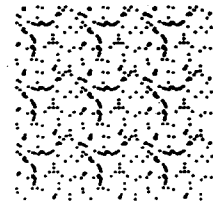
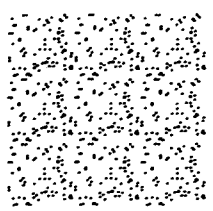
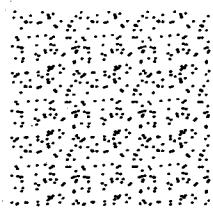
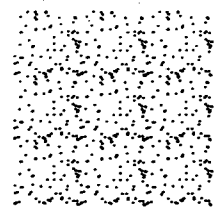
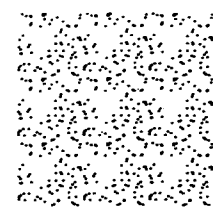
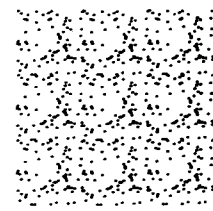
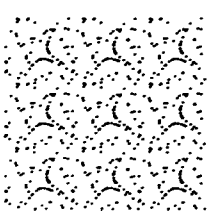
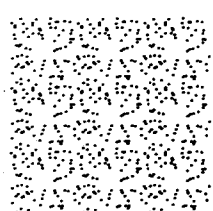
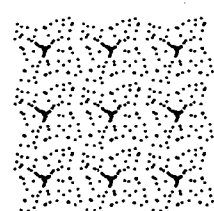
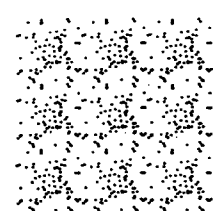
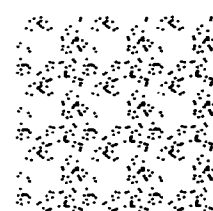
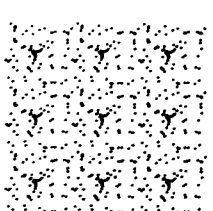
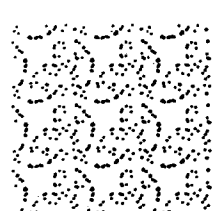
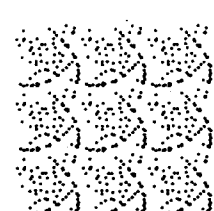
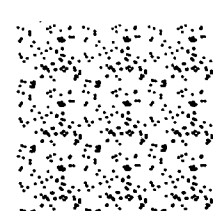
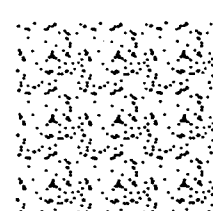
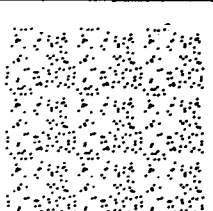
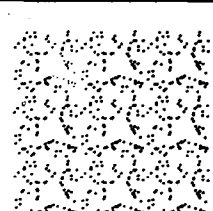
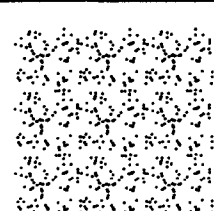
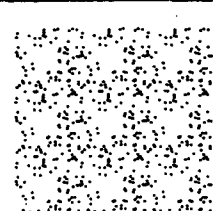
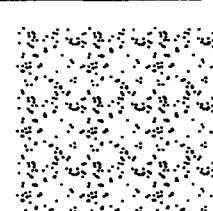
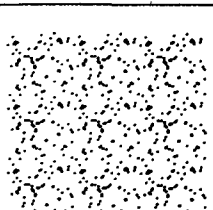
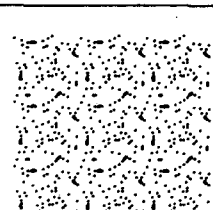
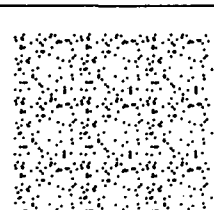
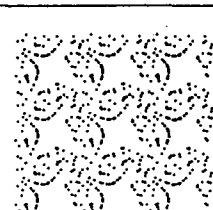


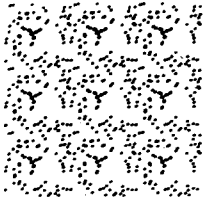
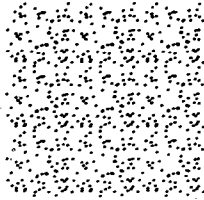
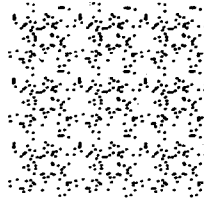
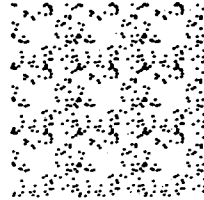
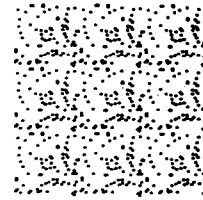
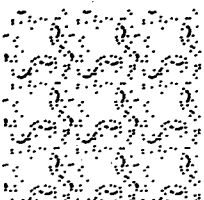
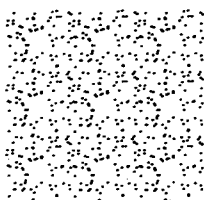
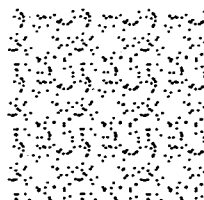
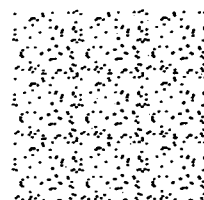
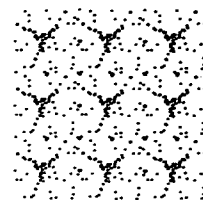
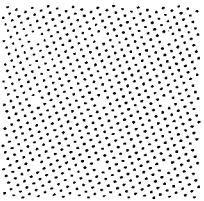
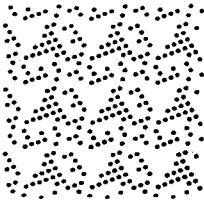
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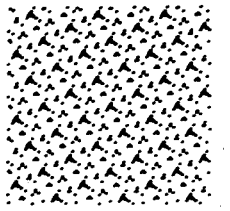
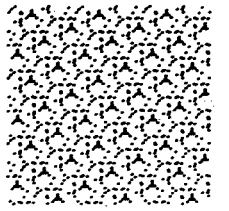
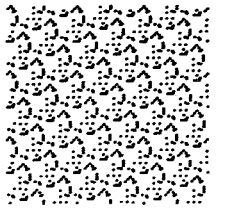
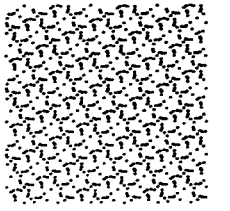
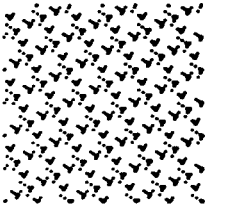
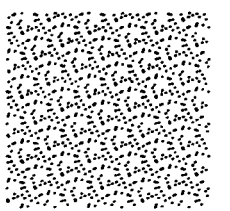
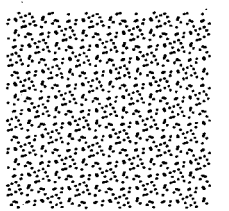
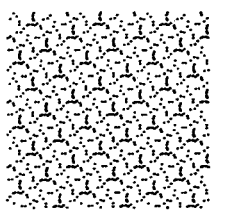
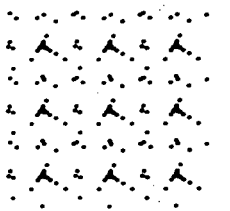
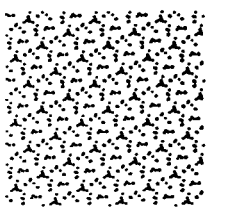
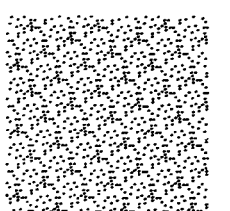
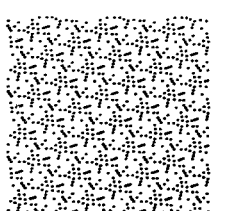
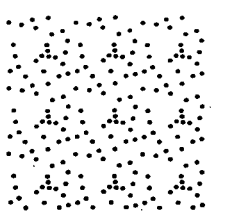
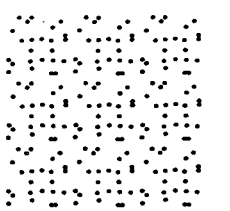
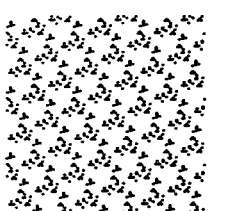
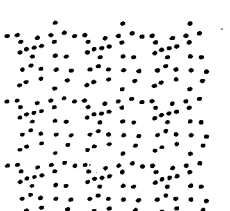

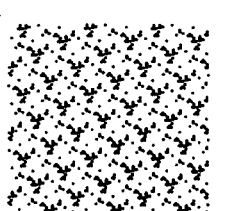
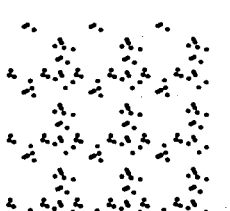
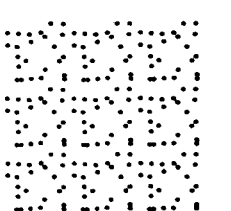
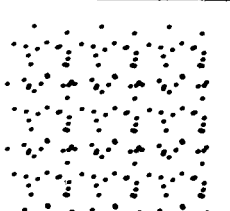
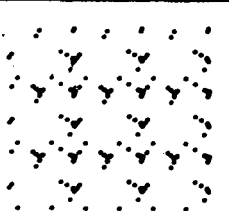

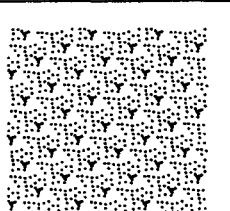
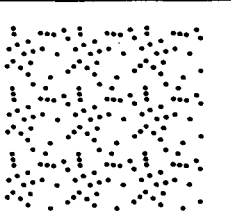
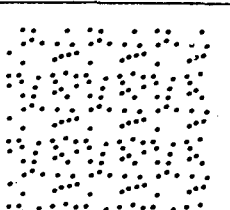
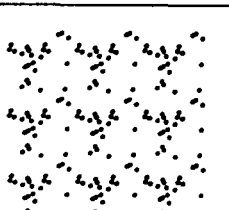
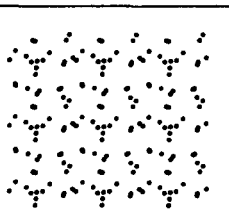
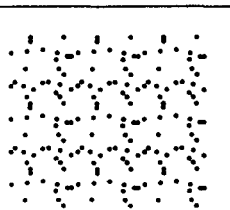
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 1 3 80	 1 4 80	 1 6 80	 1 8 80	 1 10 80
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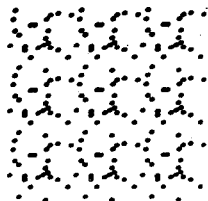
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 <p>3 11 80</p>	 <p>3 18 80</p>			
				<p>PAGE 77.2</p>

 0 1 168	 0 5 168	 0 7 168	 0 11 168	 0 17 168
 0 23 168	 1 3 168	 1 4 168	 1 5 168	 1 7 168
 1 9 168	 1 11 168			

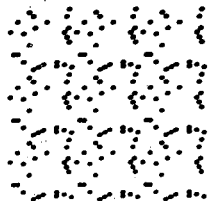
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 0 16 78	 0 17 78	 0 18 78	 0 19 78	 0 20 78
 0 21 78	 0 22 78	 0 23 78	 0 24 78	 0 25 78
 0 26 78	 0 27 78	 0 28 78	 0 29 78	<p>PAGE 79.1</p>

 <p>0 30 78</p>	 <p>0 31 78</p>	 <p>0 32 78</p>	 <p>0 33 78</p>	 <p>0 34 78</p>
 <p>0 35 78</p>	 <p>0 36 78</p>	 <p>0 37 78</p>	 <p>0 38 78</p>	 <p>0 39 78</p>
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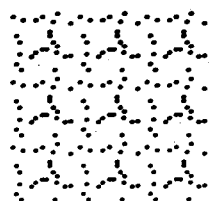
				
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0 13 120	0 17 120	0 19 120	1 3 24	1 4 120
				
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1 18 24	1 20 120	1 21 120	1 23 24	1 28 24
				
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3 9 24

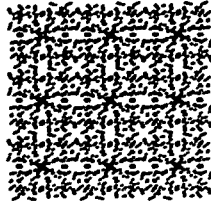
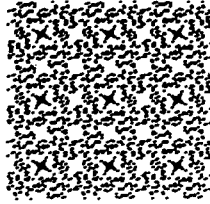
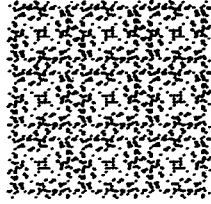
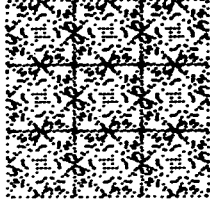

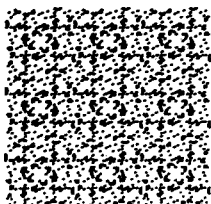
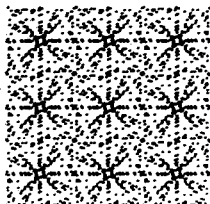
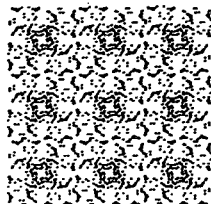
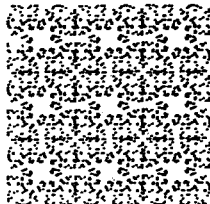
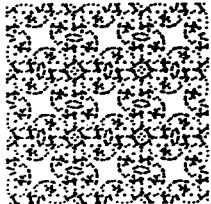
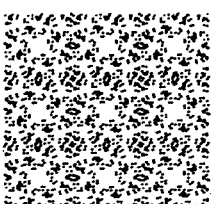

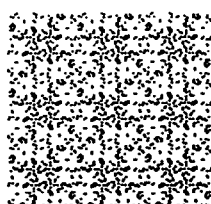
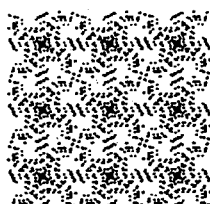
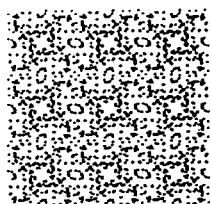
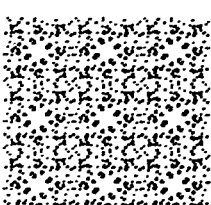
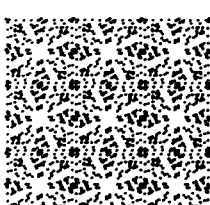
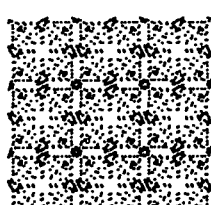

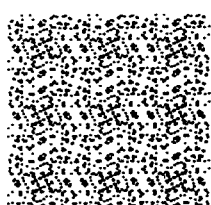
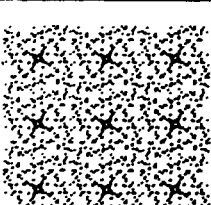
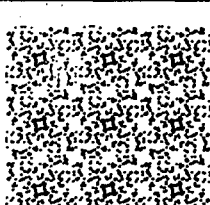

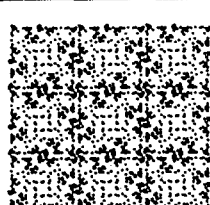

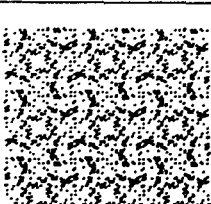
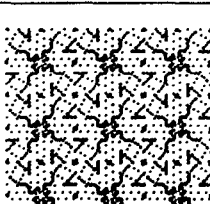


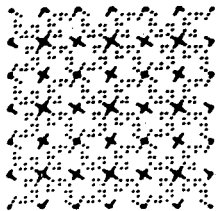
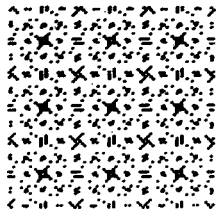
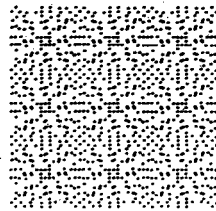
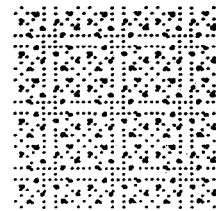
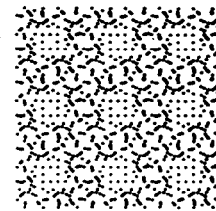
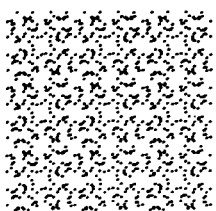
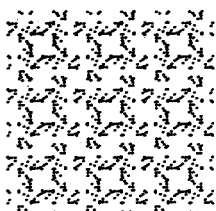
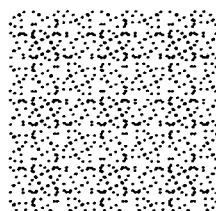
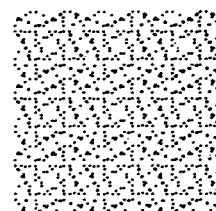
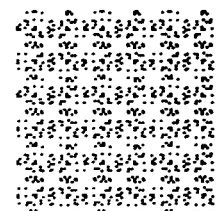
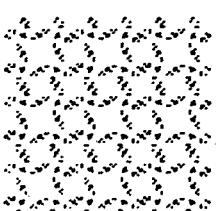
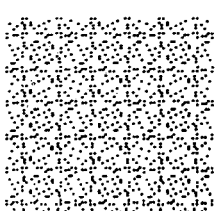
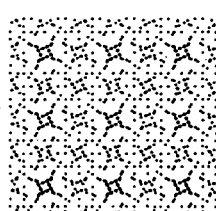
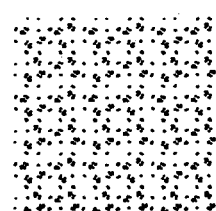
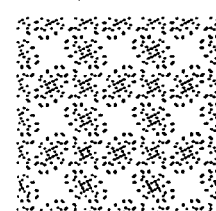
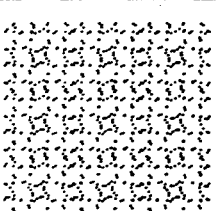
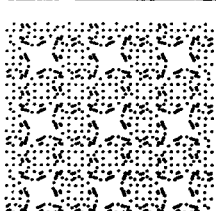
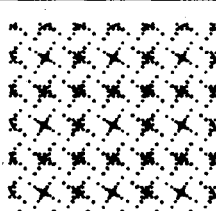
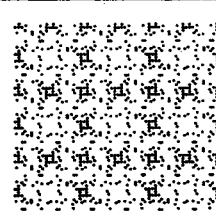
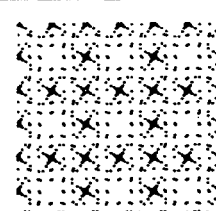
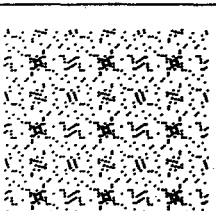
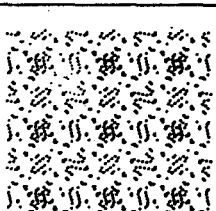
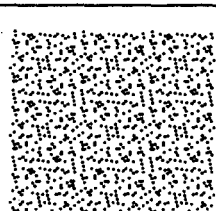
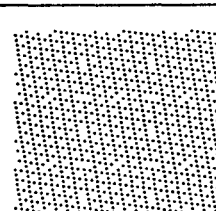
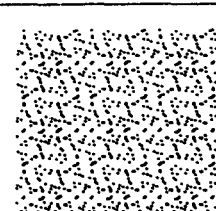
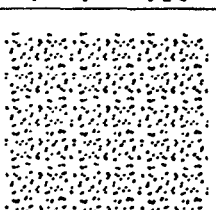
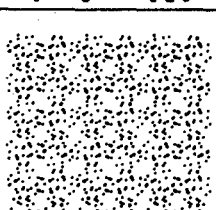
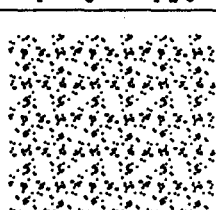
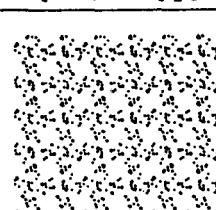
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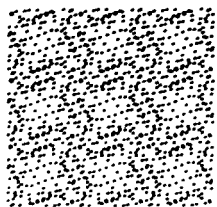


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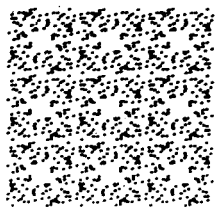
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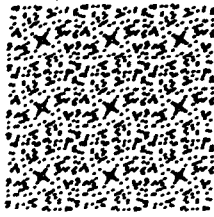
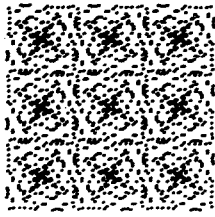
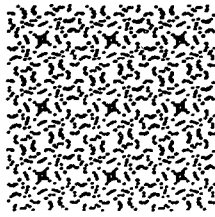
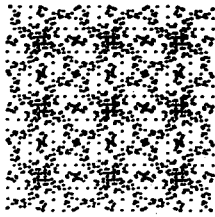
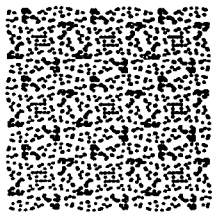
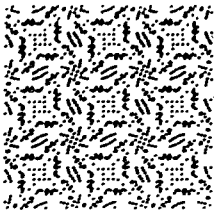
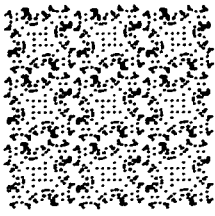
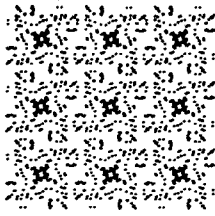
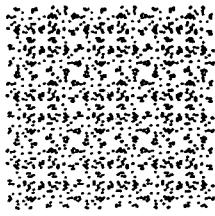
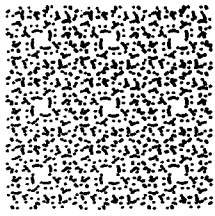
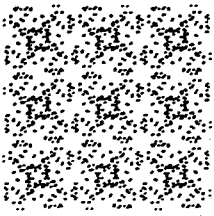
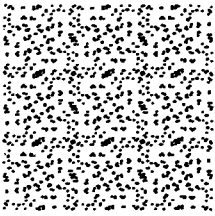
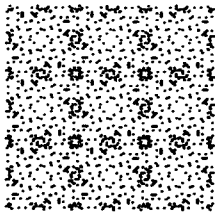
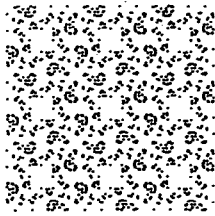
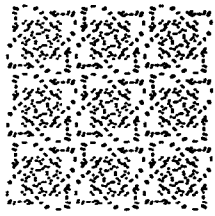
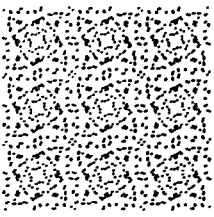
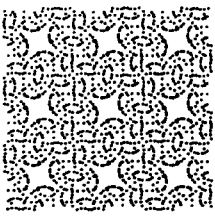
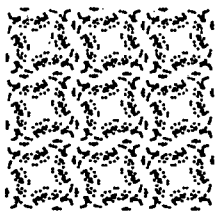
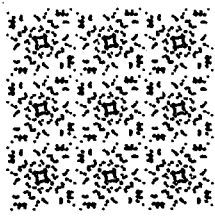
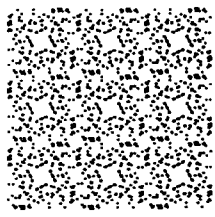
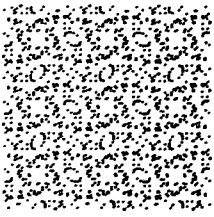
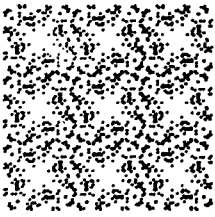
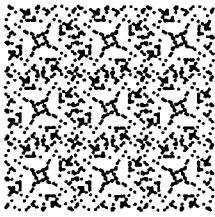
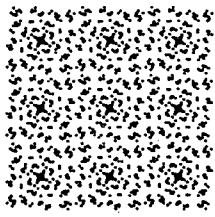
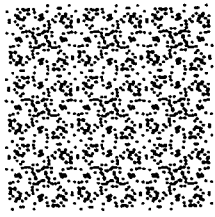
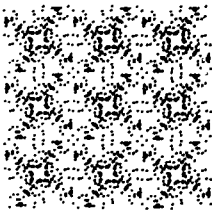
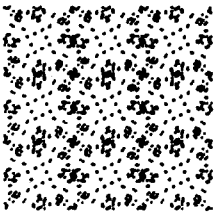
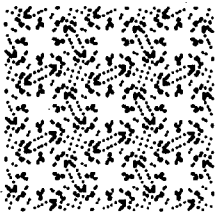
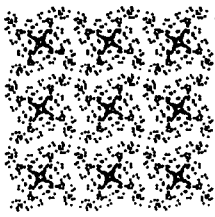
				
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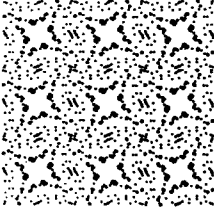
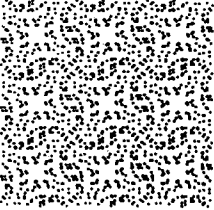
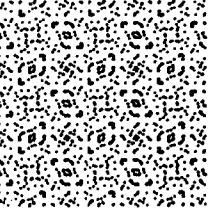
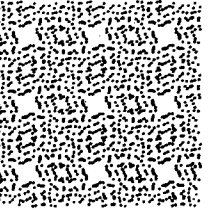
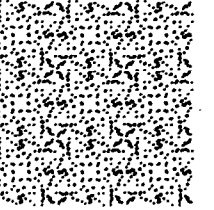
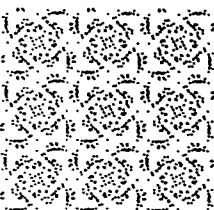
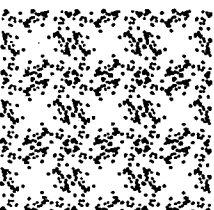
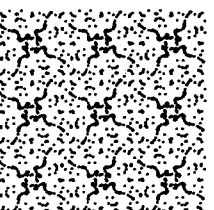
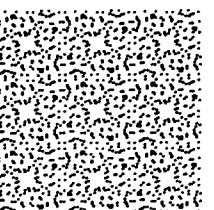
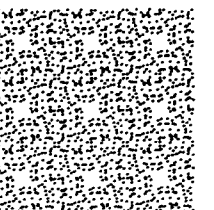

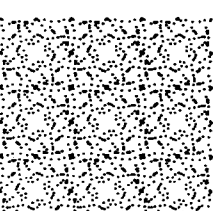


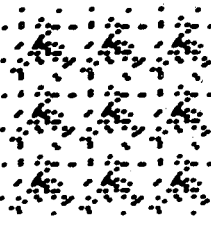
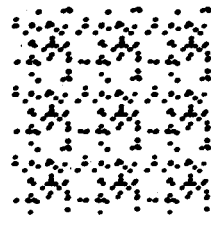
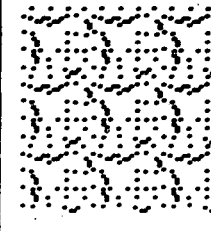
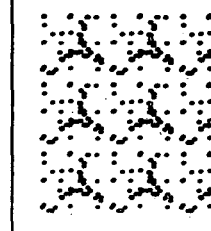
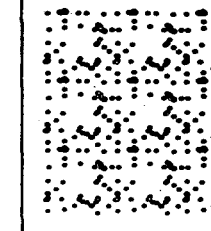
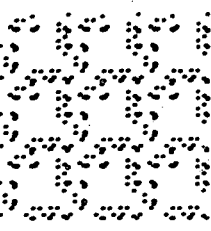
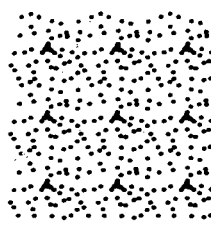
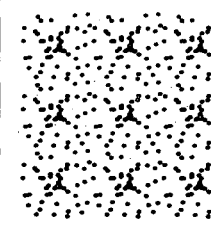
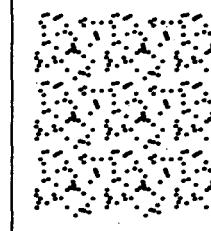
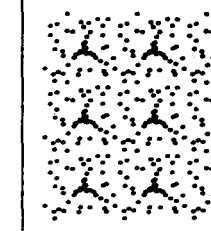
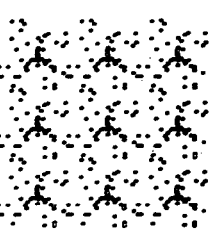
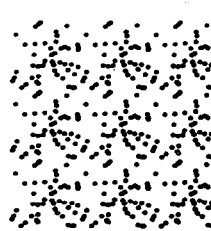
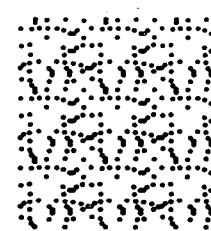
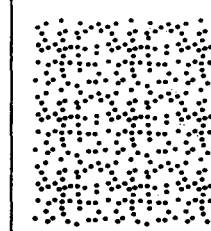
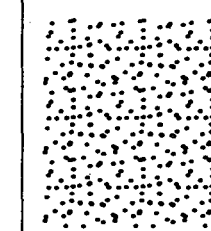
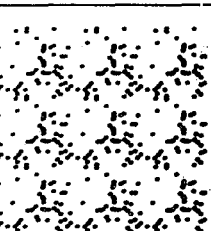
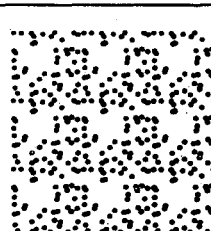
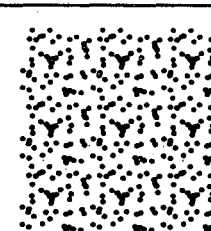
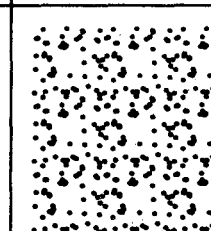
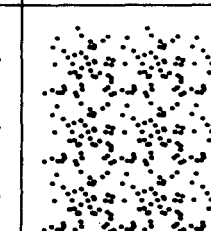
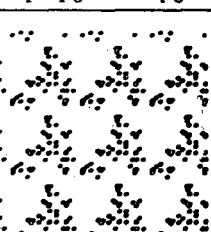
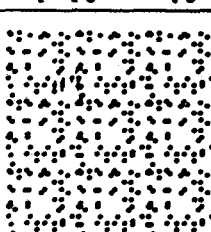
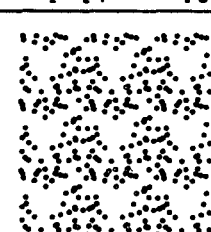
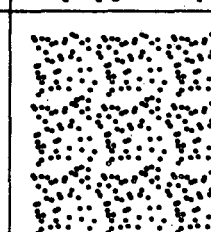
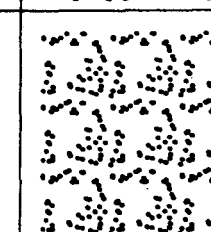
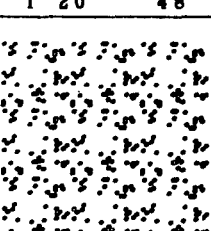
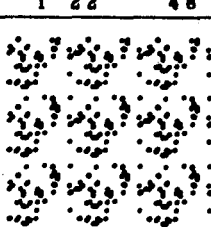
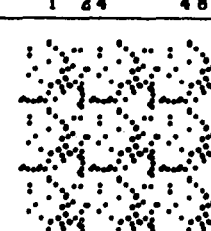
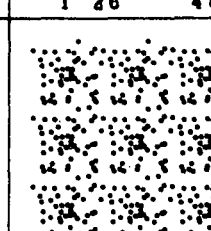
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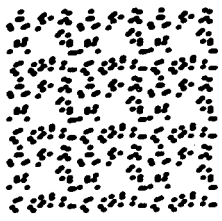
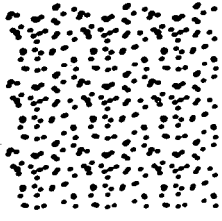
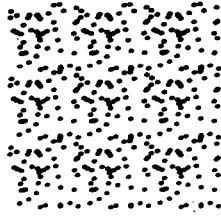
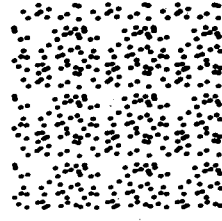
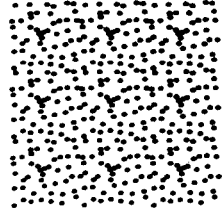
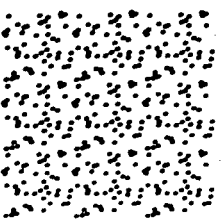
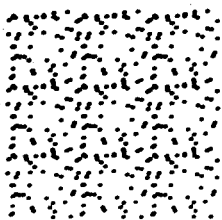
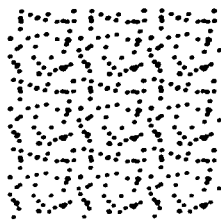
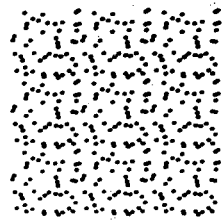
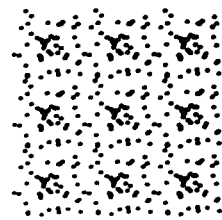
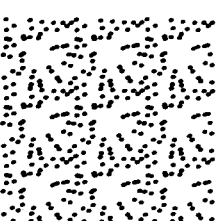
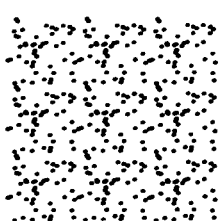
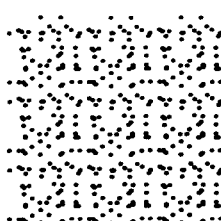
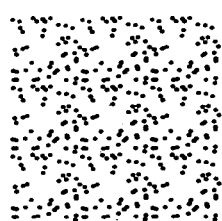
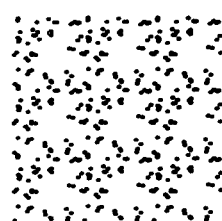
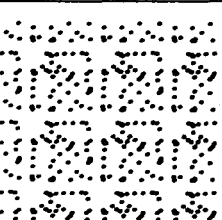
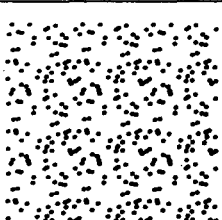
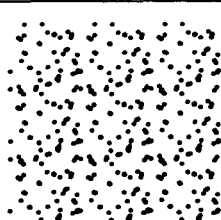
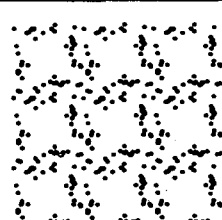


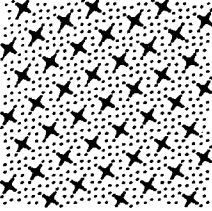
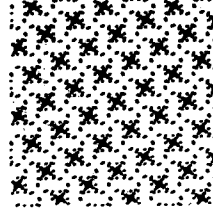
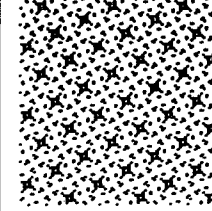
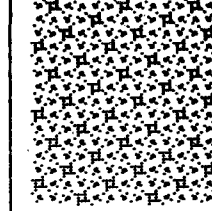
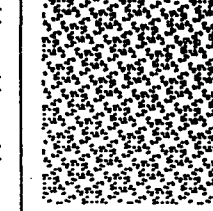
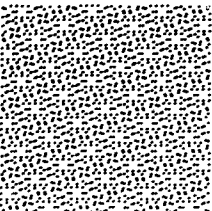
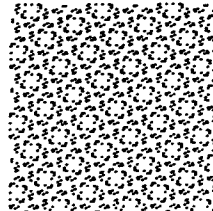
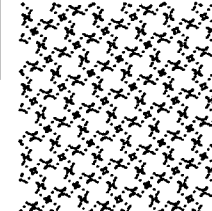
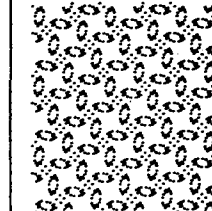
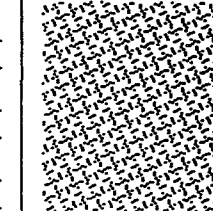
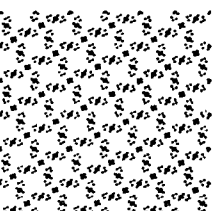
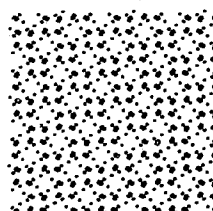
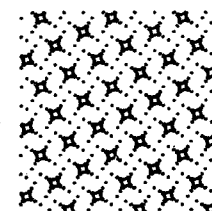
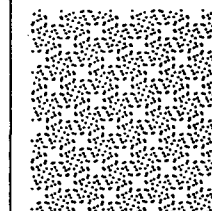
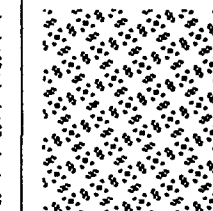
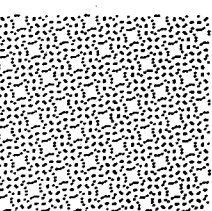
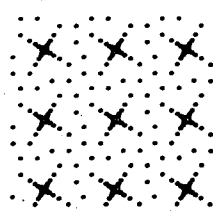
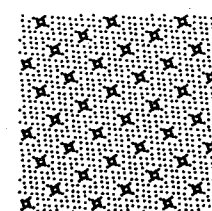
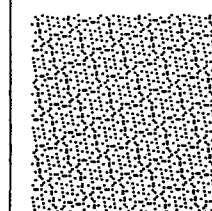
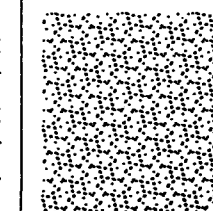
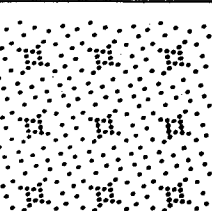
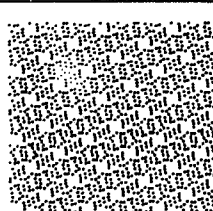
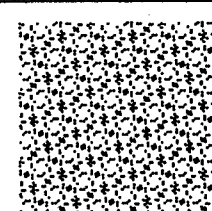
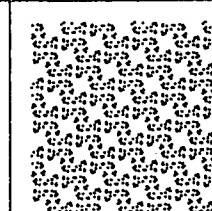
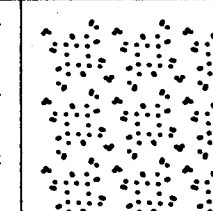
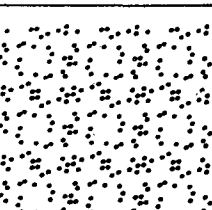
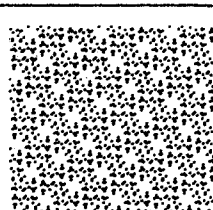
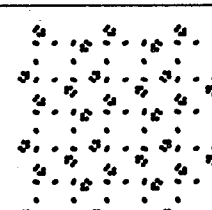
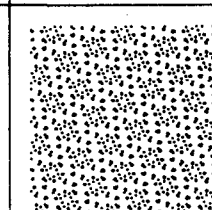
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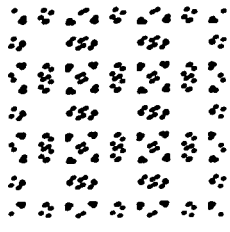
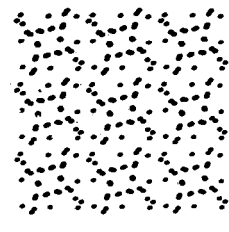
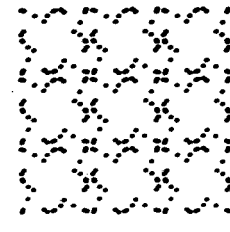
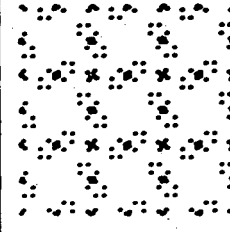
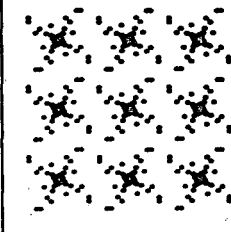
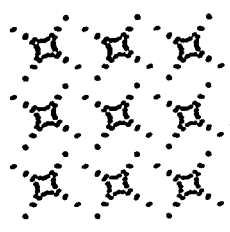
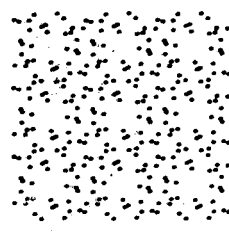
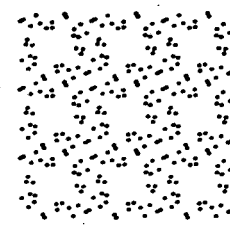
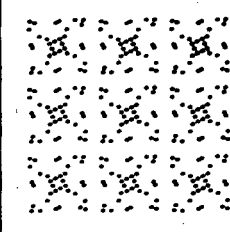
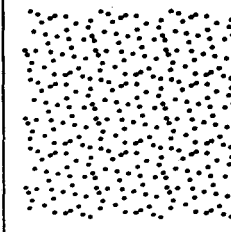
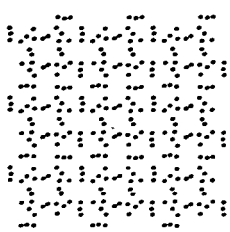
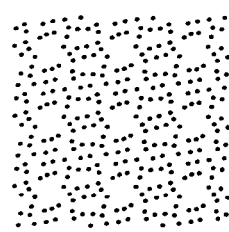
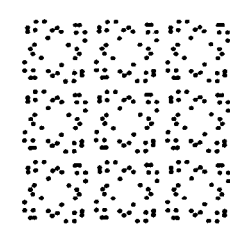
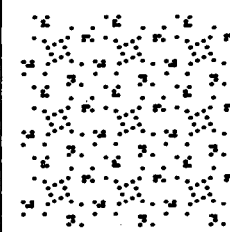
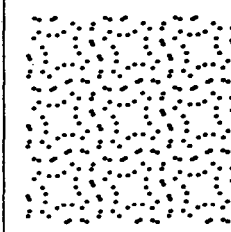
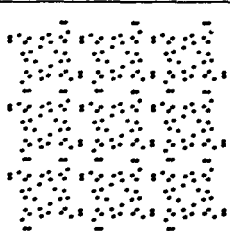
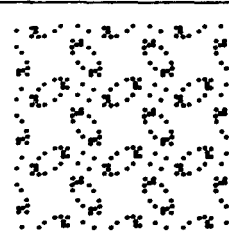
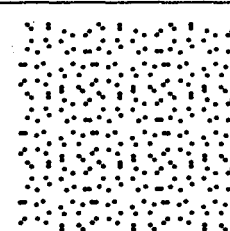
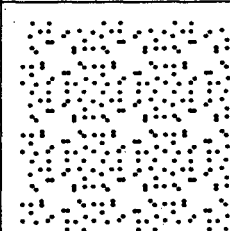
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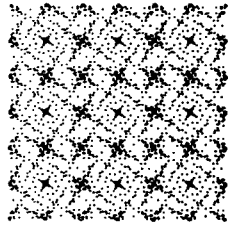
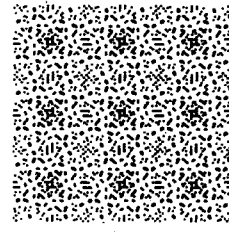
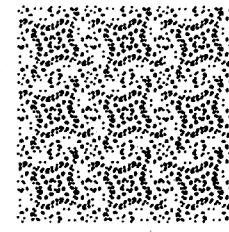
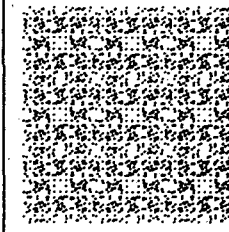
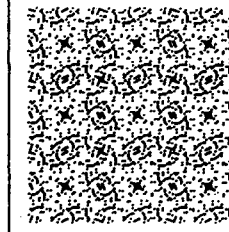
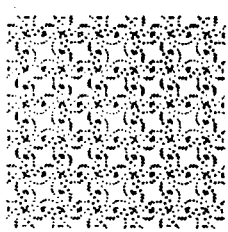
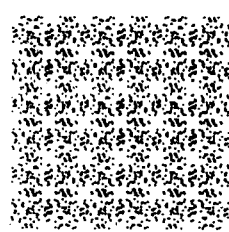
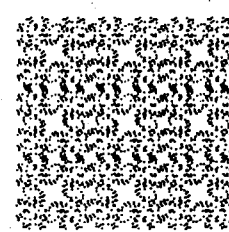
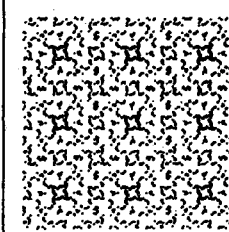
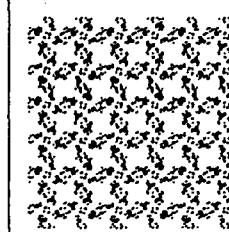
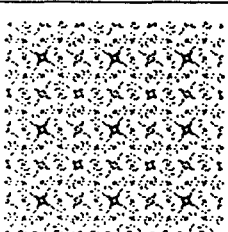
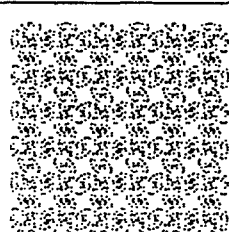
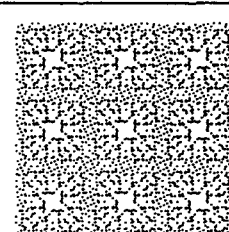
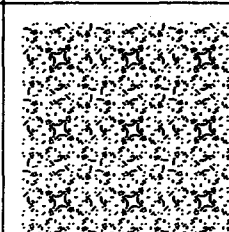
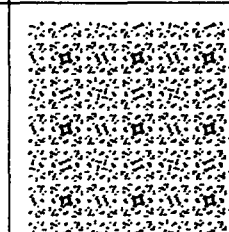
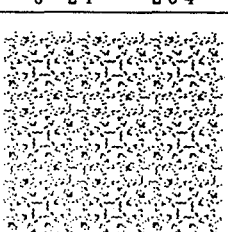
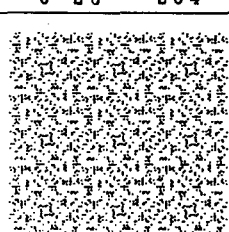
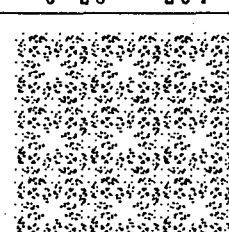
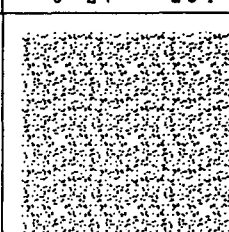
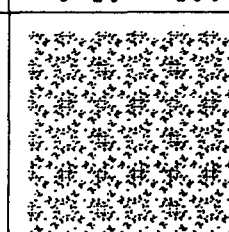
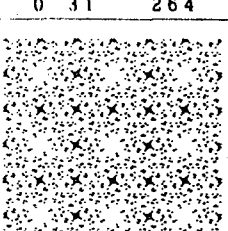
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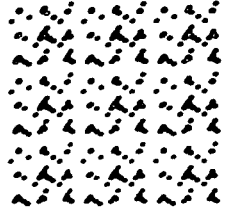
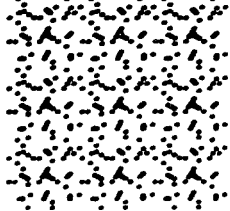
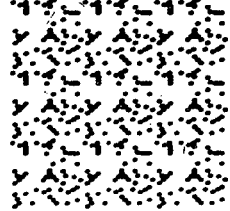
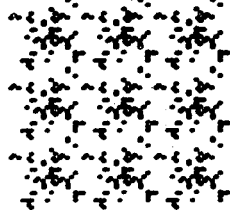
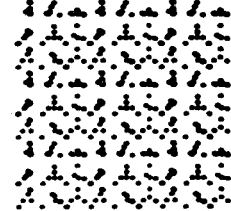
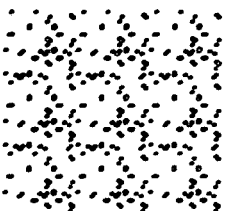
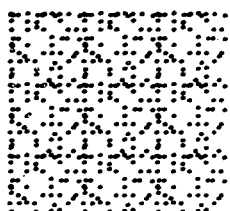
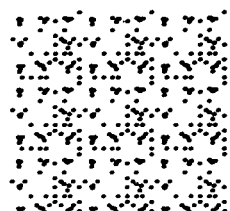
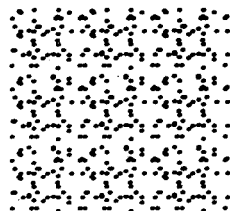
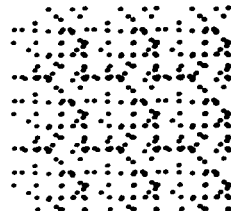
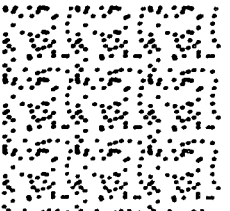
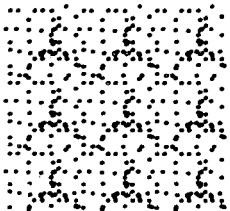
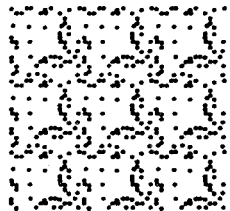
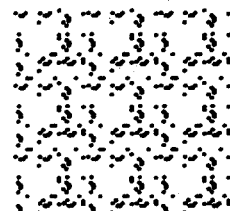
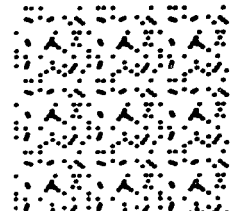

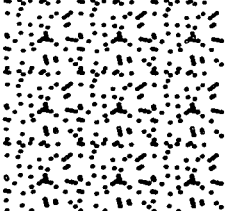
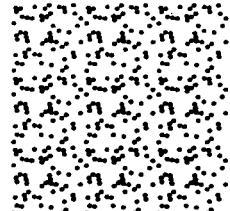
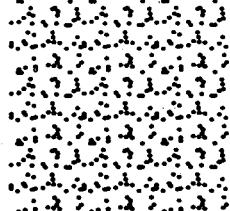
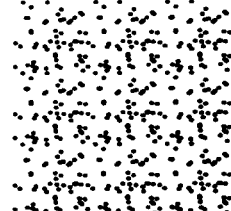
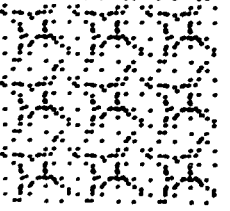
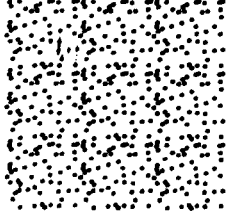
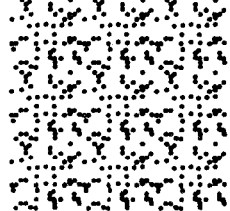
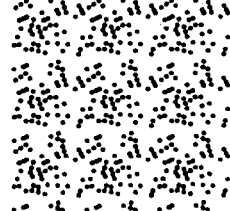
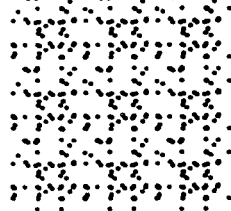
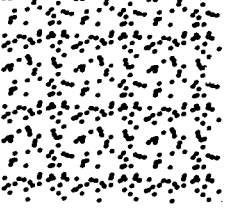
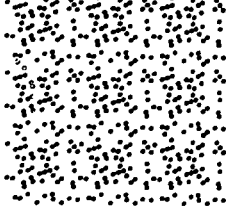
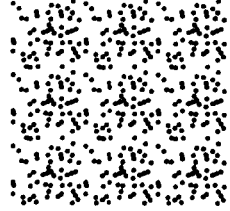
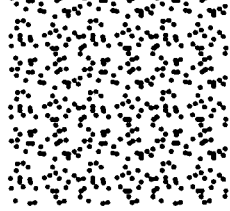
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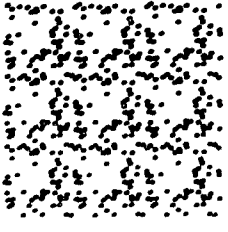
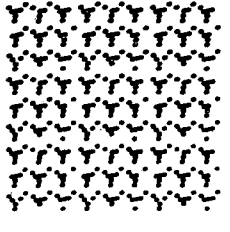
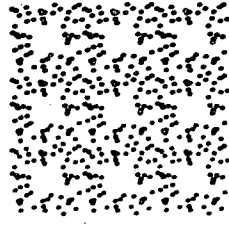
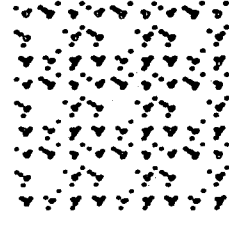
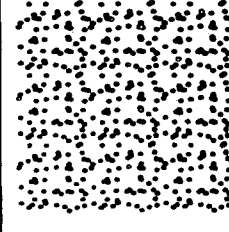
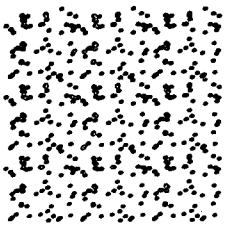
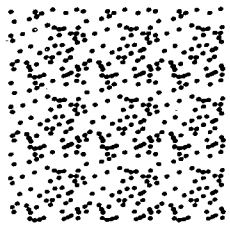
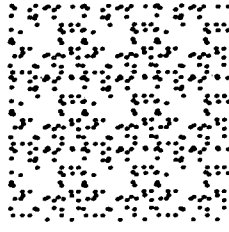
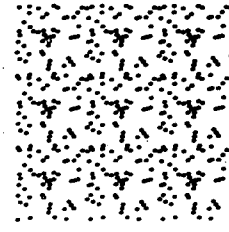
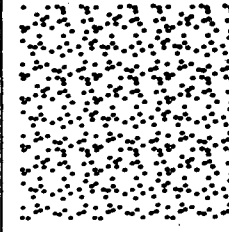
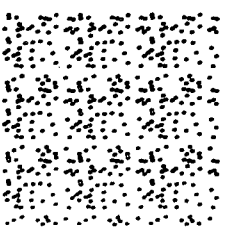
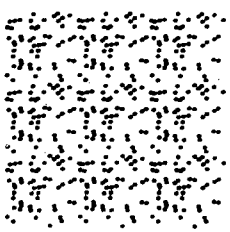
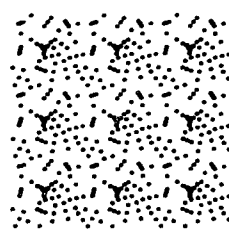
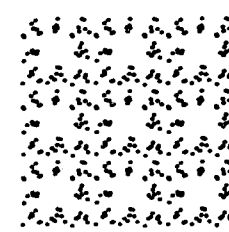
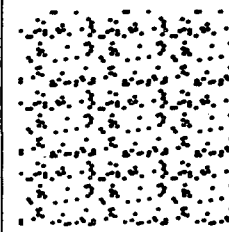
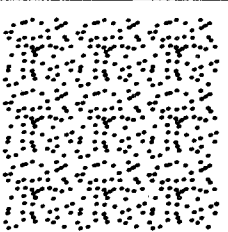
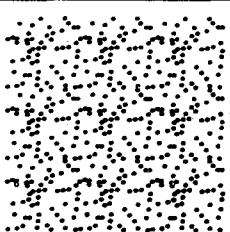
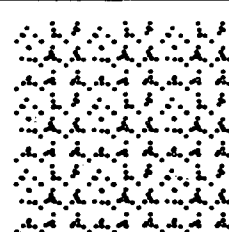
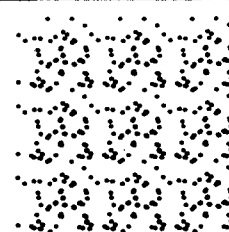
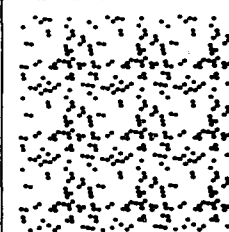
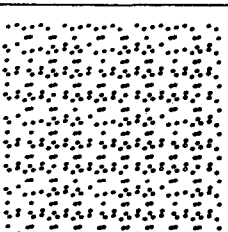
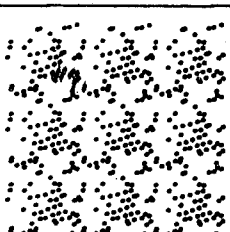
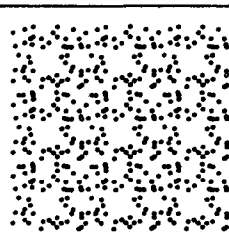
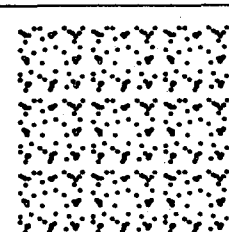
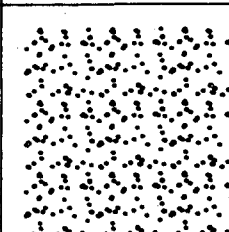
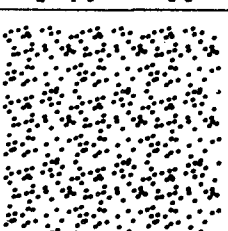
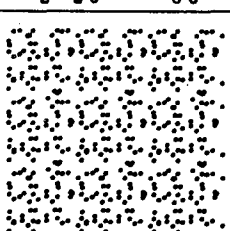
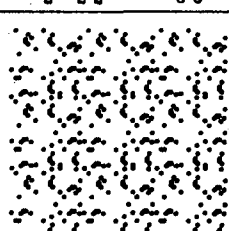
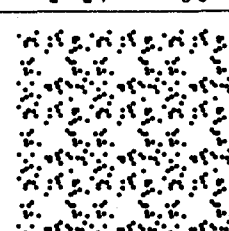
				
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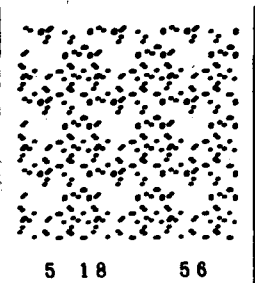
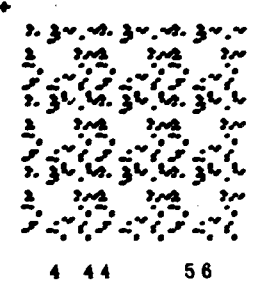
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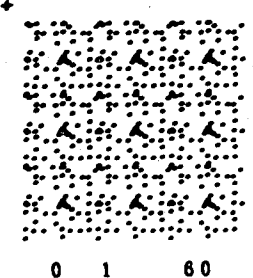
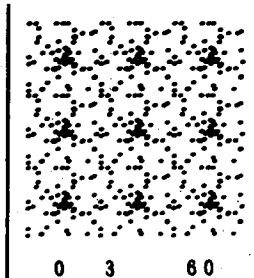
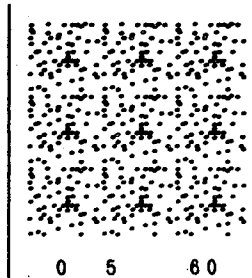
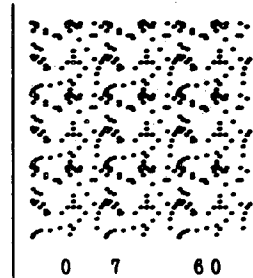
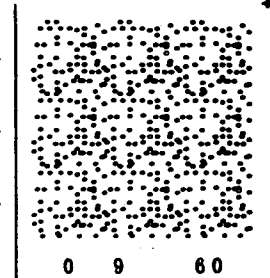
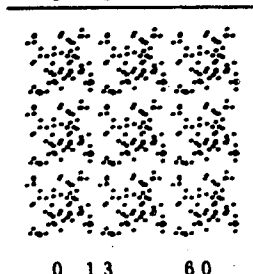
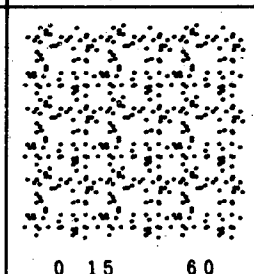
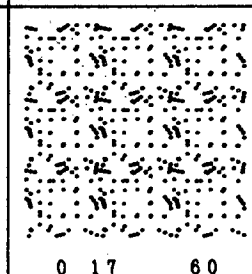
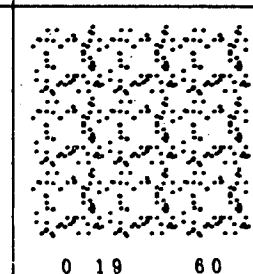
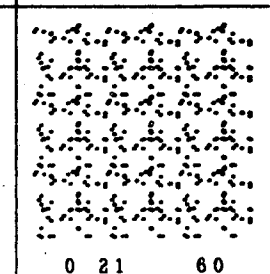
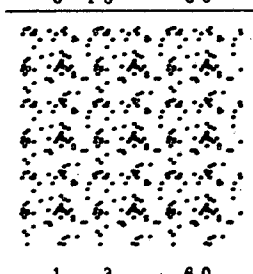
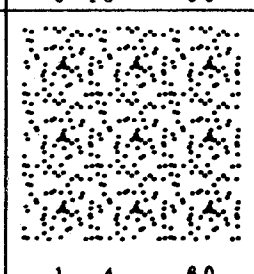
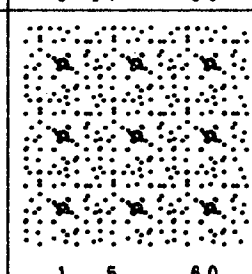
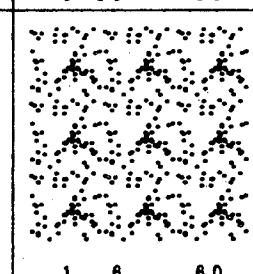
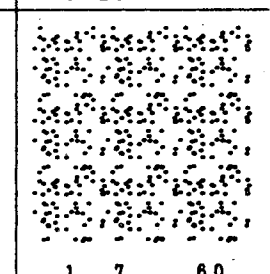
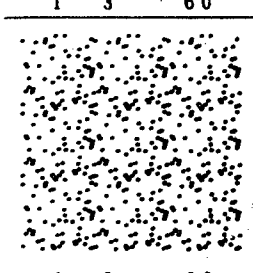
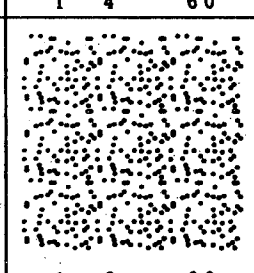
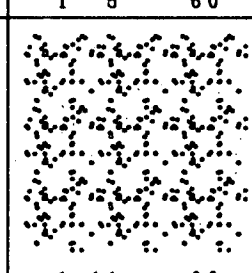
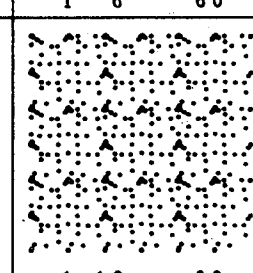
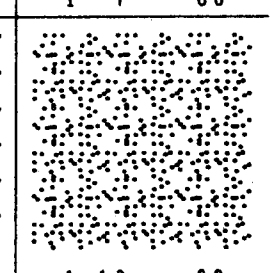
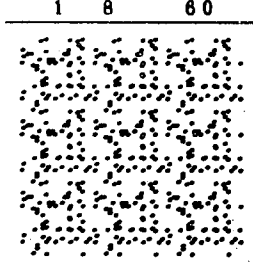
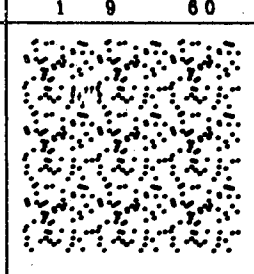
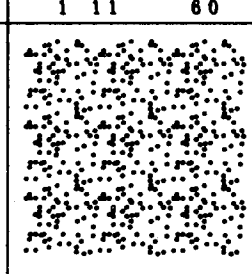
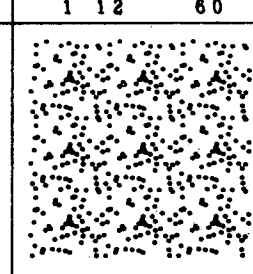
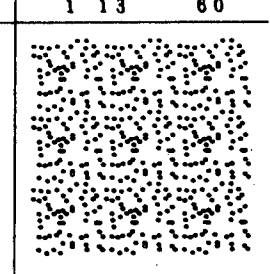
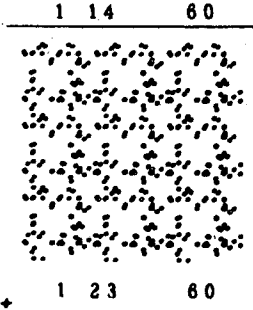
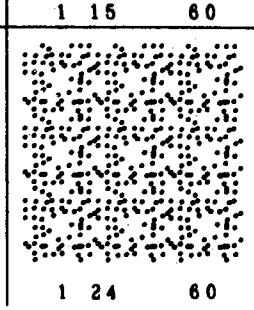
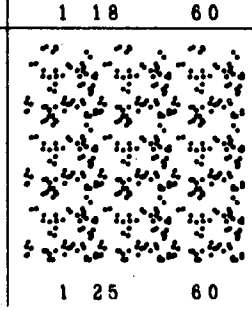
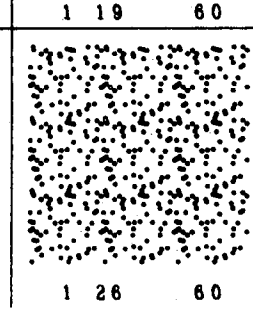
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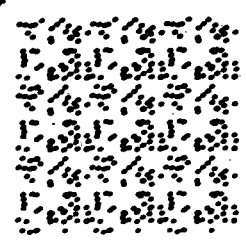
16

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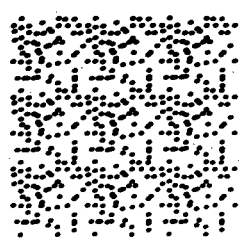
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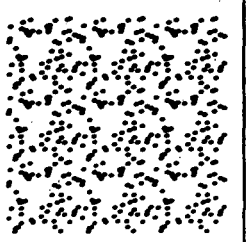
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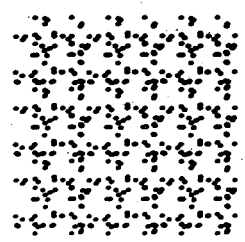
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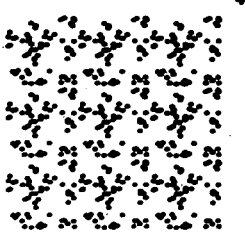
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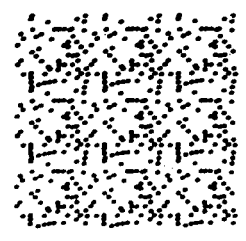
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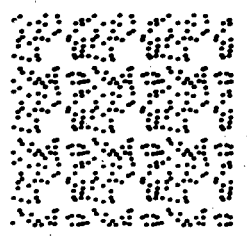
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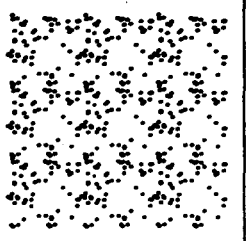
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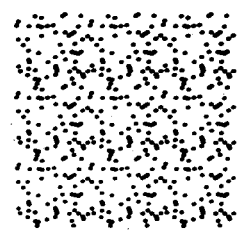
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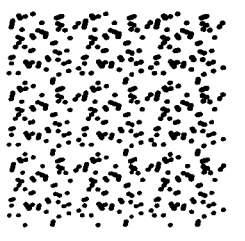
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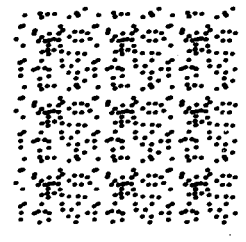
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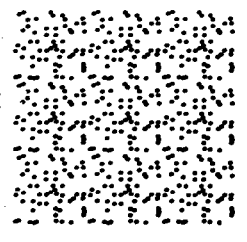
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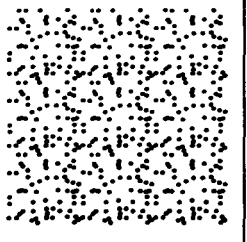
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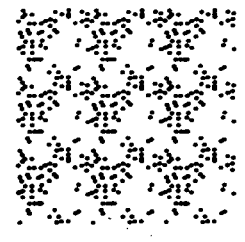
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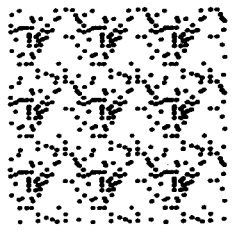
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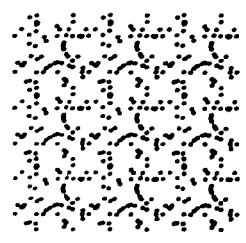
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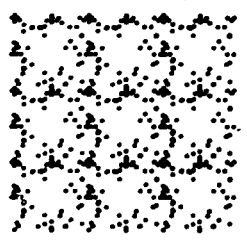
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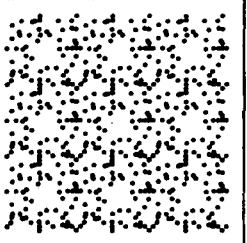
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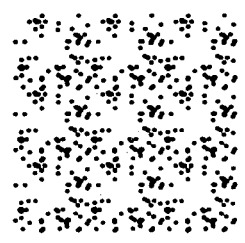
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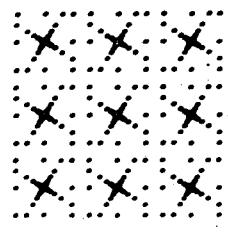
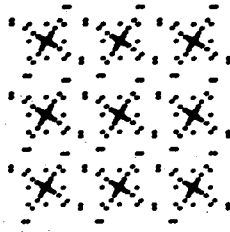
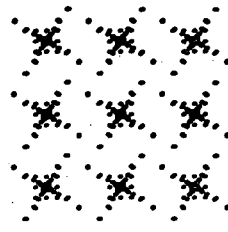
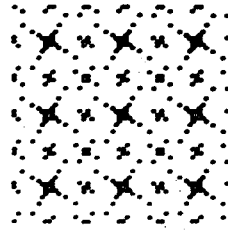
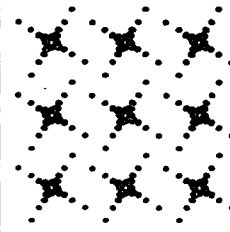
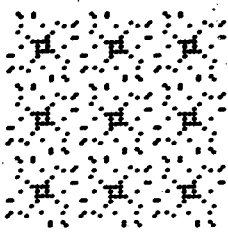
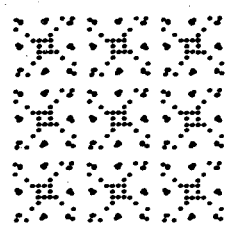
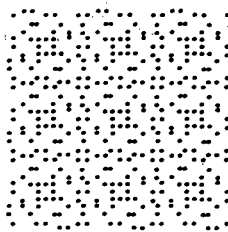
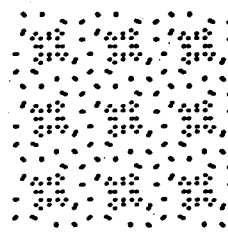
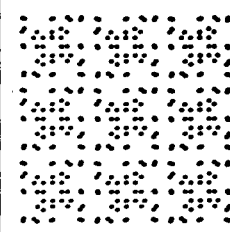
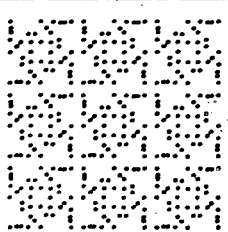
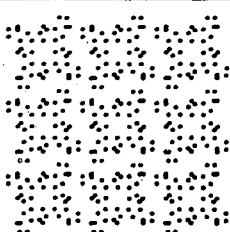
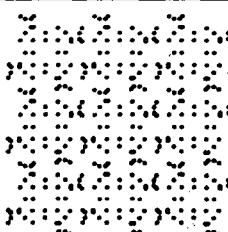
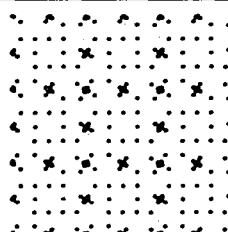
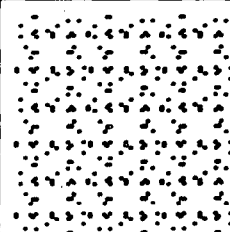
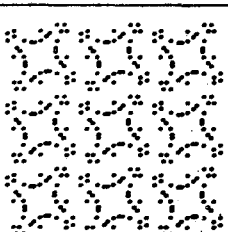
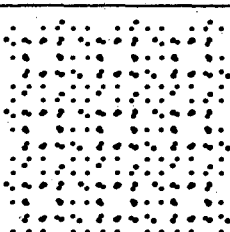
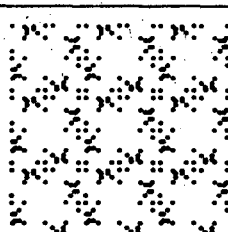
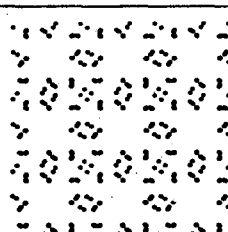
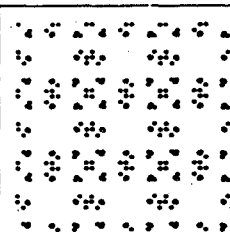
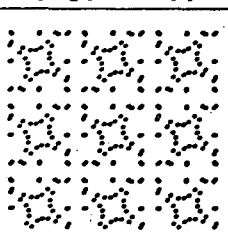
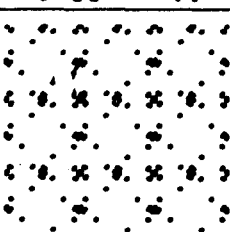
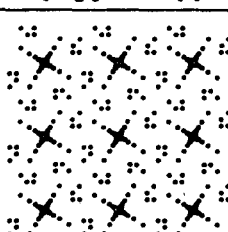
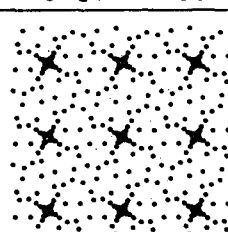
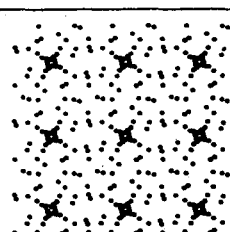
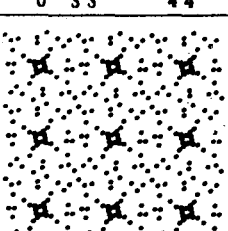
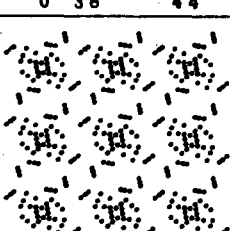
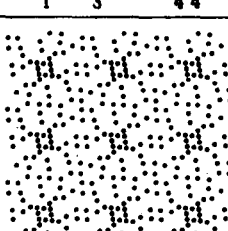
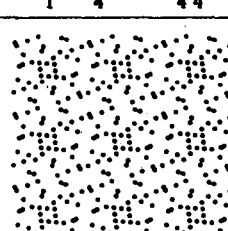
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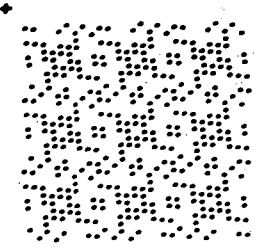
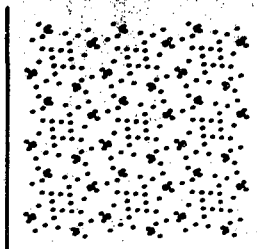
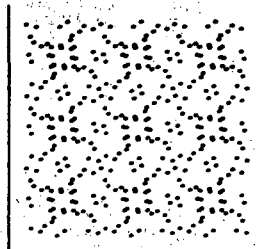
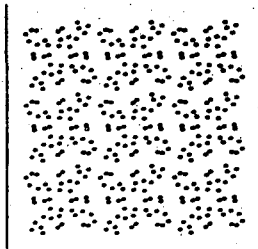
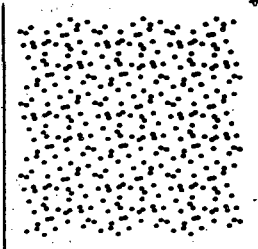
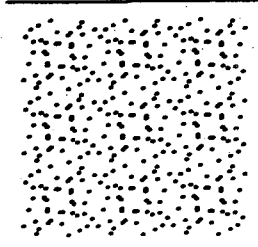
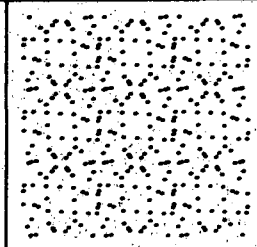
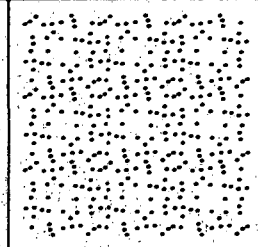
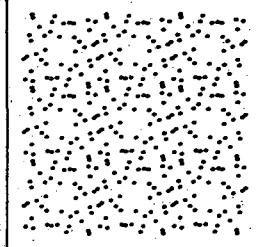
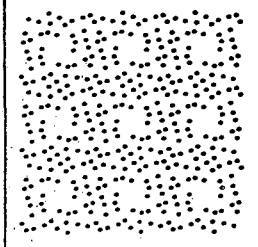
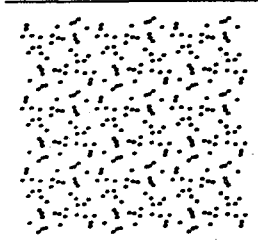
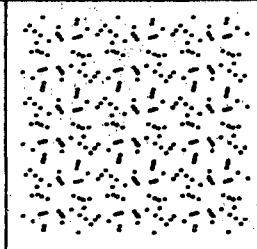
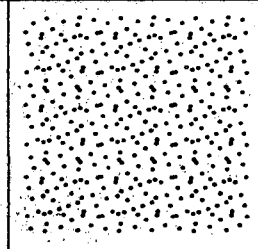
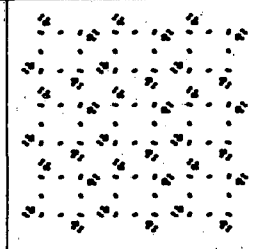
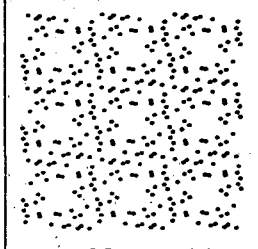
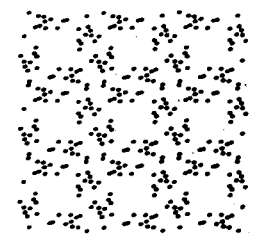
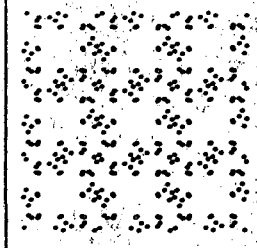
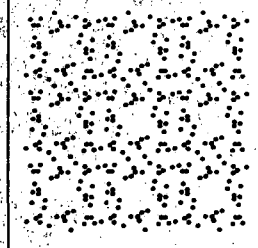
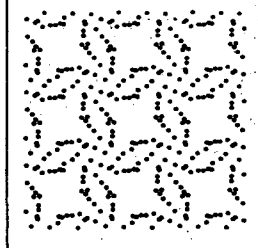
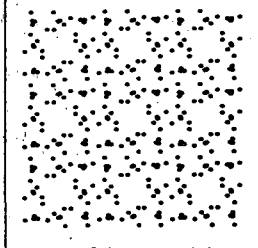
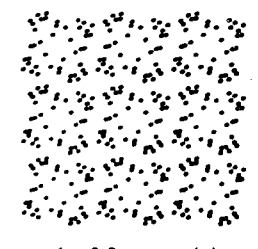
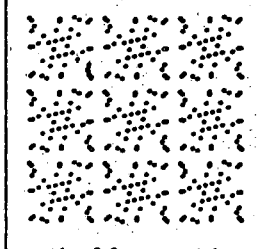
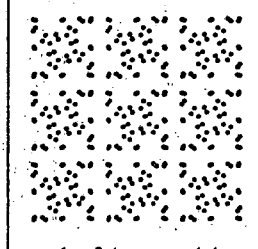
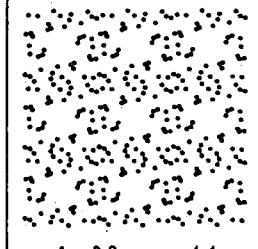
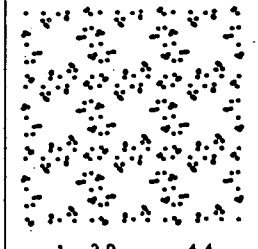
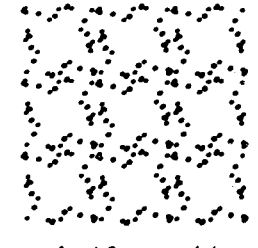
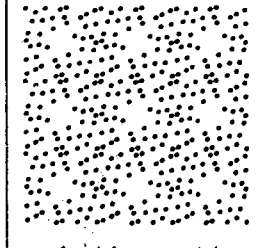
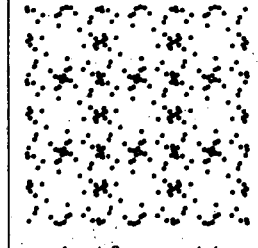
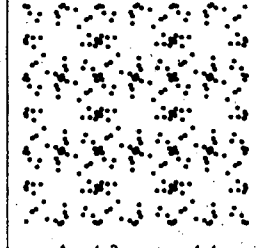


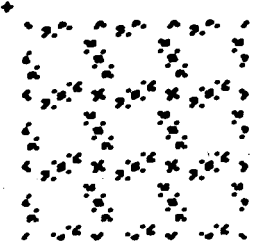
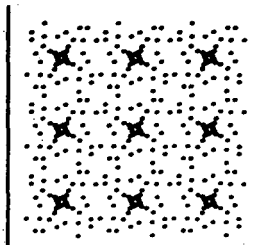
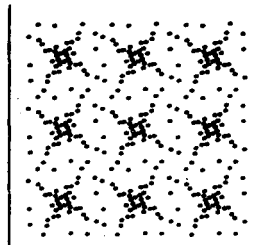
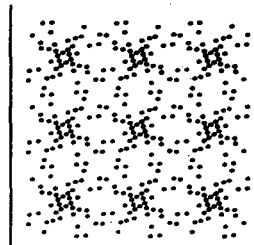
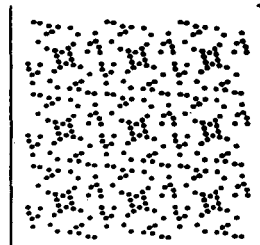
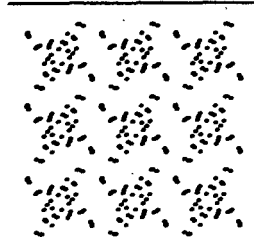
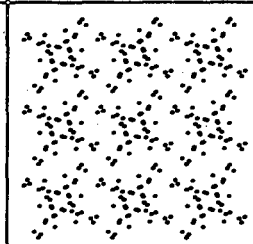
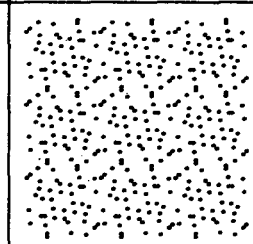
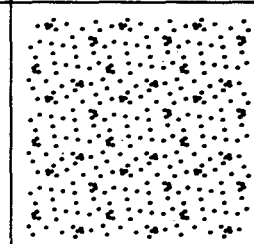
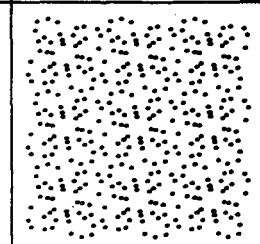
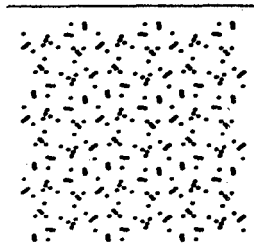
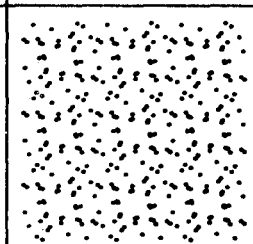
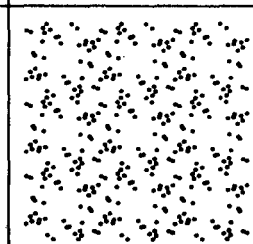
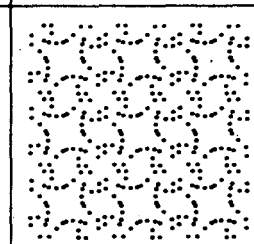
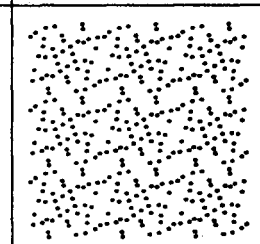
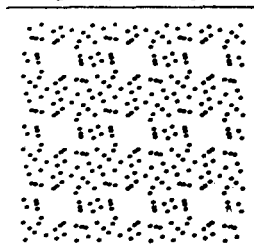
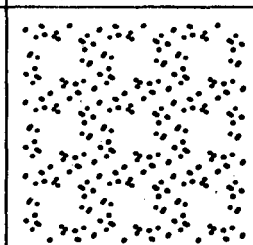
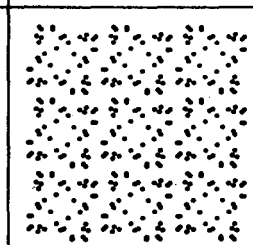
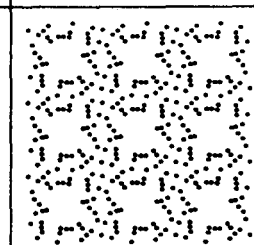
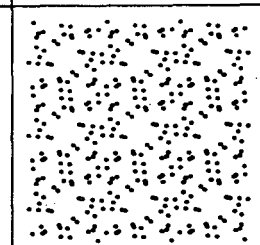
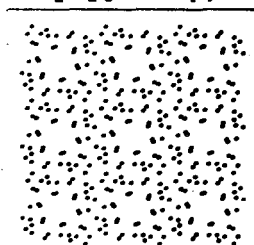
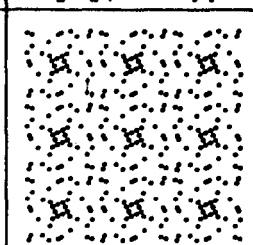
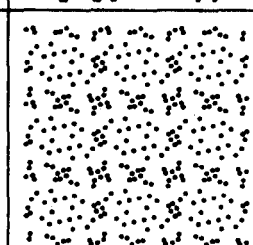
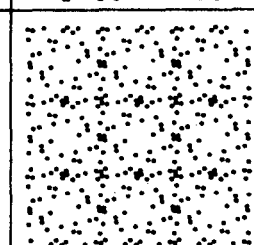
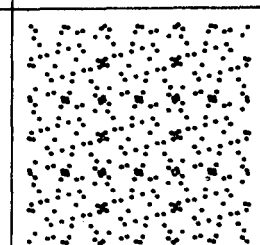
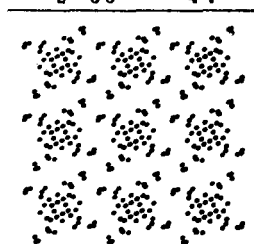
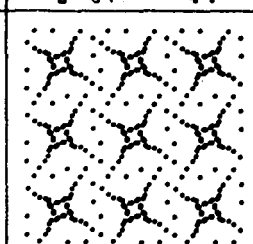
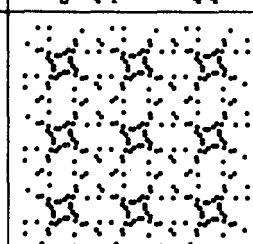
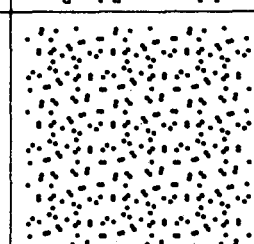
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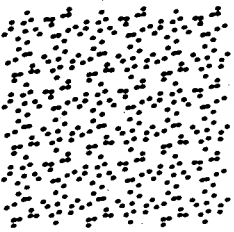
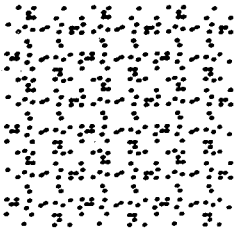
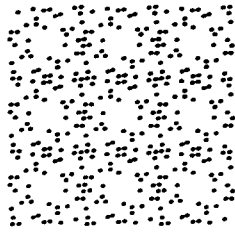
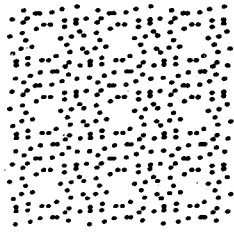
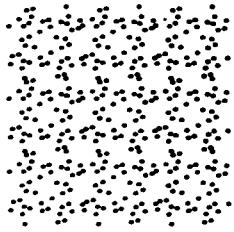
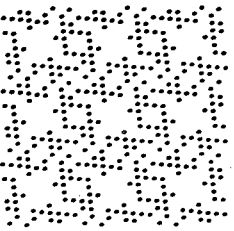
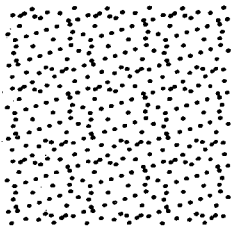
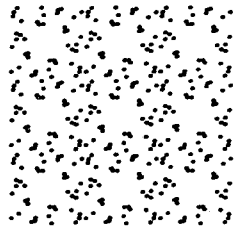
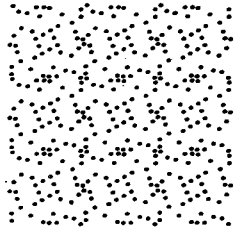
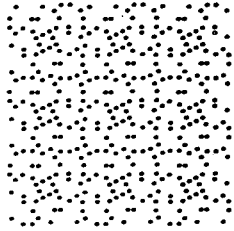
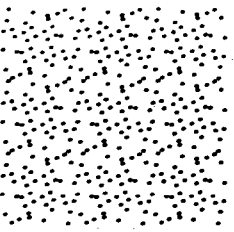
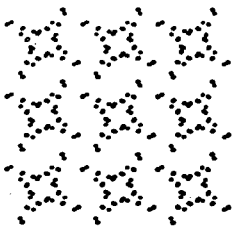
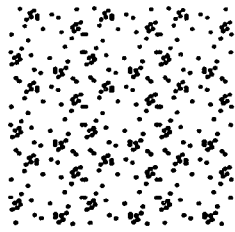
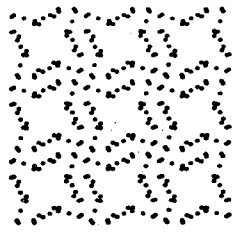
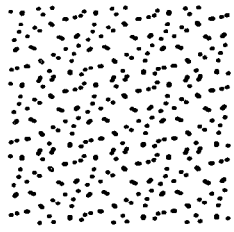
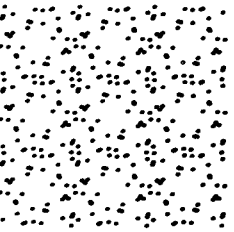
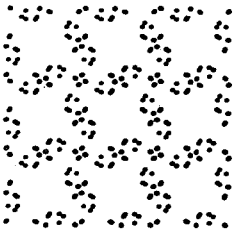
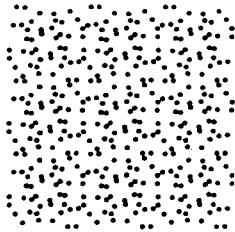
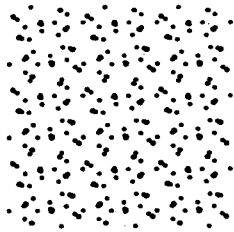
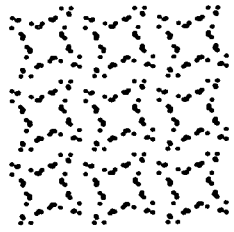
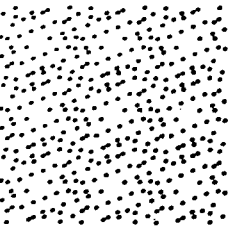
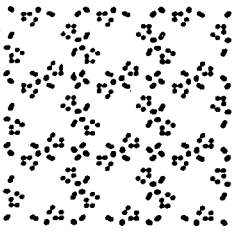
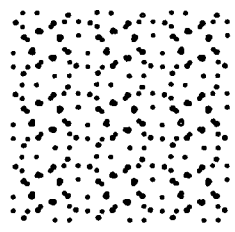
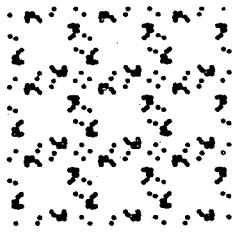
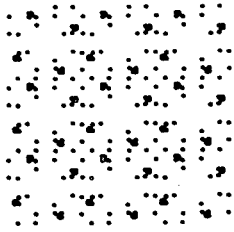


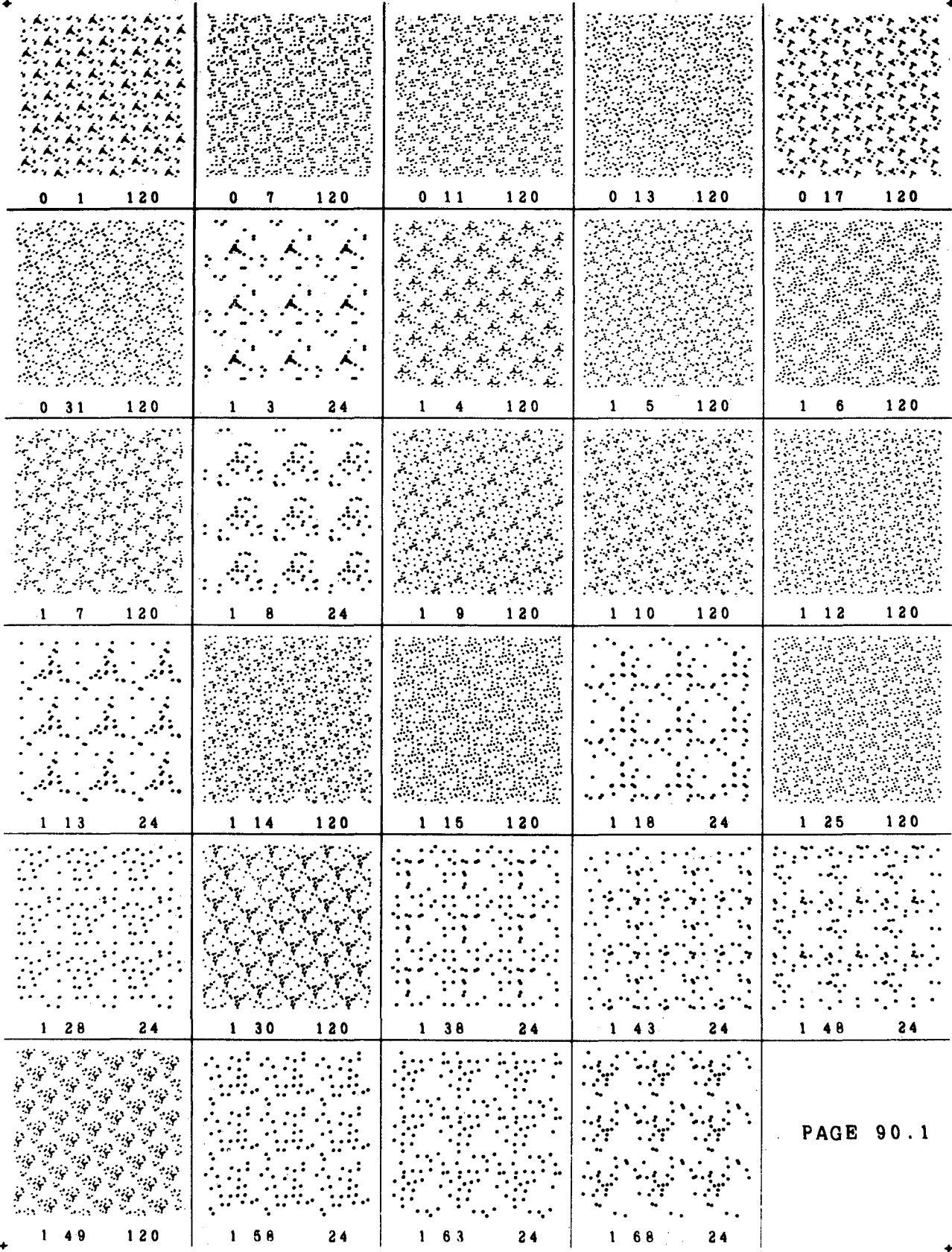
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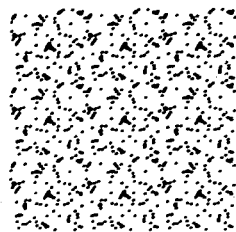
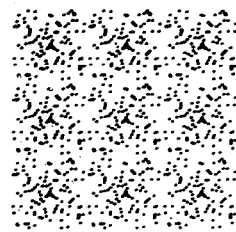
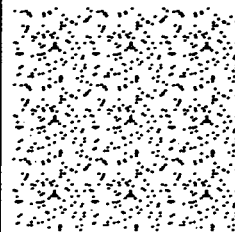
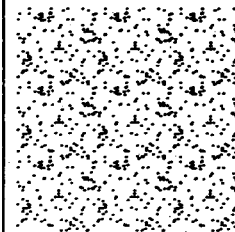
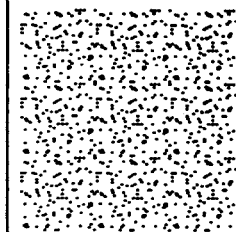
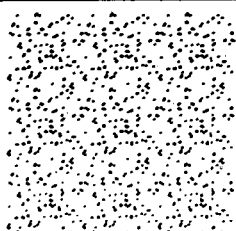
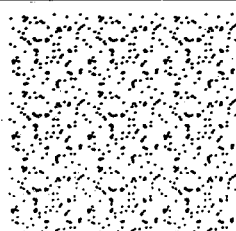
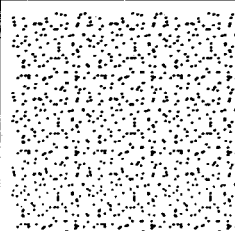
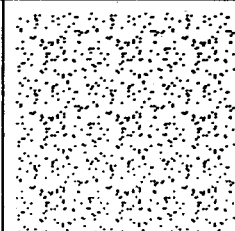
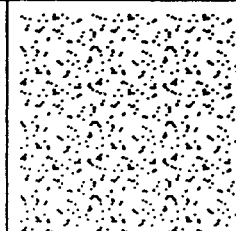
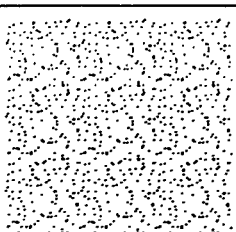
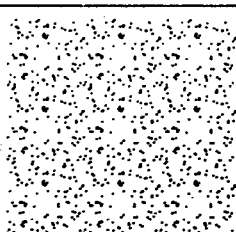
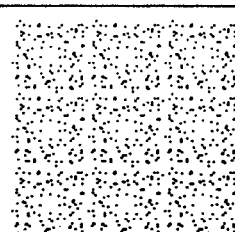
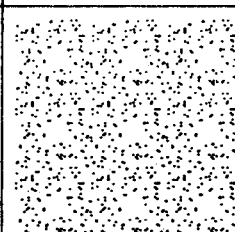
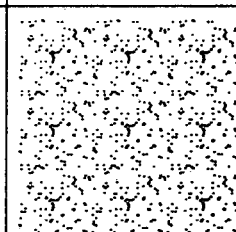
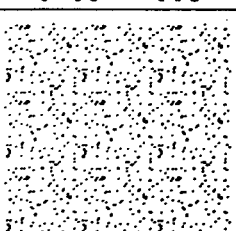
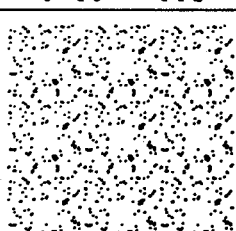
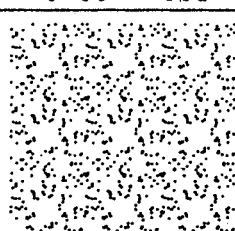
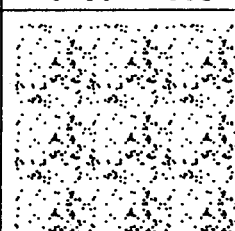
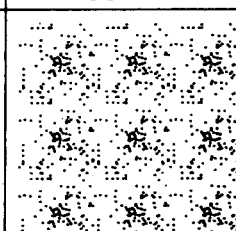
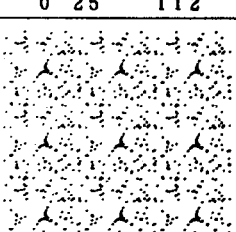
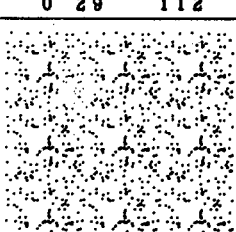
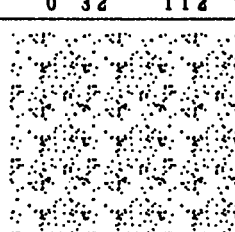
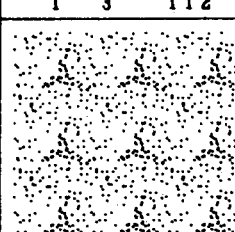
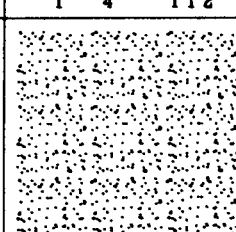
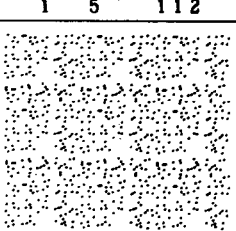
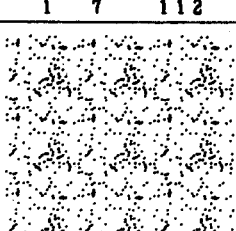
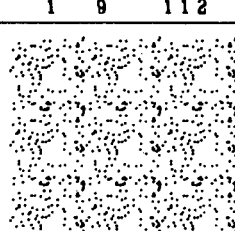
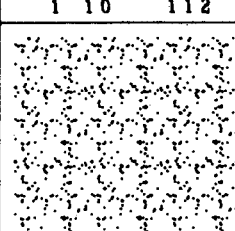
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 <p>0 12 44</p>	 <p>0 14 44</p>	 <p>0 15 44</p>	 <p>0 17 44</p>	 <p>0 19 44</p>
 <p>0 20 44</p>	 <p>0 22 44</p>	 <p>0 25 44</p>	 <p>0 27 44</p>	 <p>0 30 44</p>
 <p>0 33 44</p>	 <p>0 38 44</p>	 <p>1 3 44</p>	 <p>1 4 44</p>	 <p>1 5 44</p>
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 1 10 44	 1 11 44	 1 12 44	 1 13 44	 1 14 44
 1 15 44	 1 16 44	 1 17 44	 1 18 44	 1 19 44
 1 21 44	 1 22 44	 1 23 44	 1 24 44	 1 25 44
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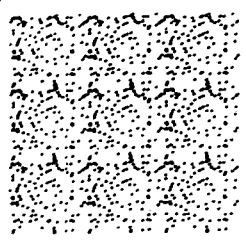
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 2 26 44	 2 27 44	 2 29 44	 2 30 44	 2 31 44
 2 35 44	 2 37 44	 2 41 44	 2 42 44	 2 45 44
 3 10 44	 3 11 44	 3 13 44	 3 14 44	<p>PAGE 89.3</p>

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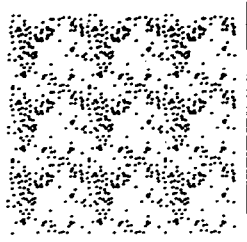


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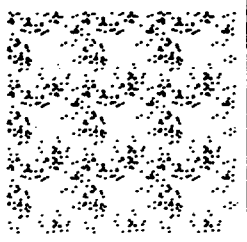
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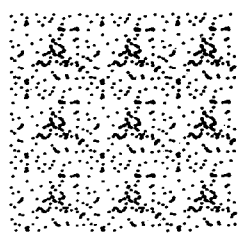
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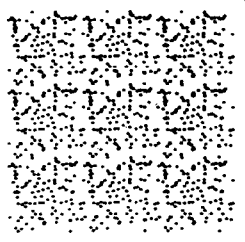
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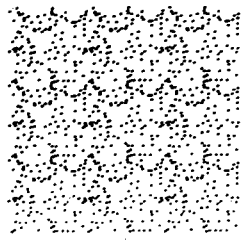
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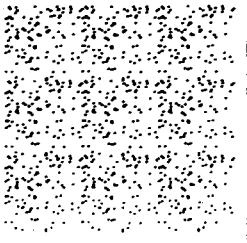
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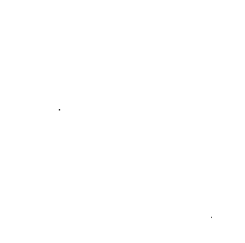
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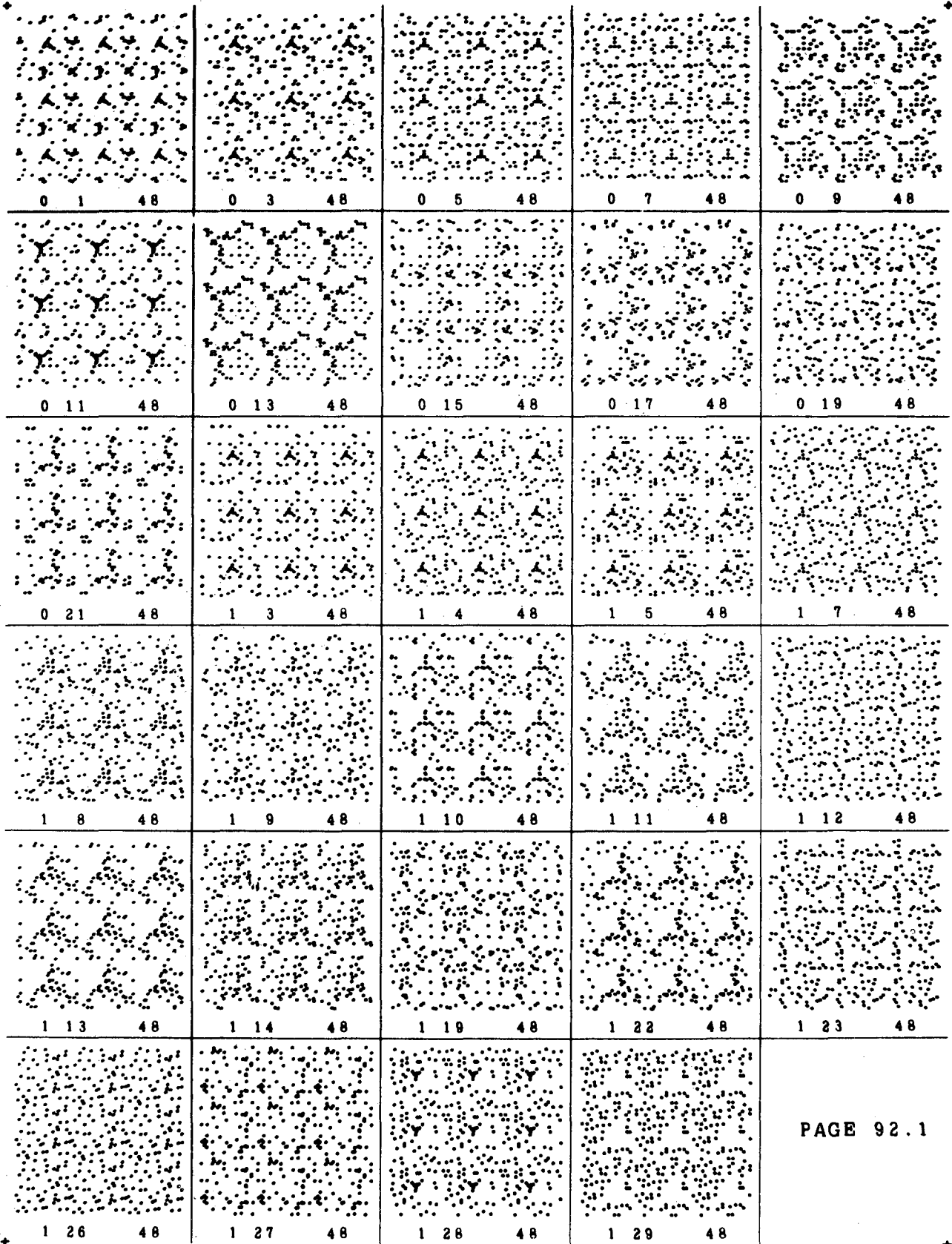


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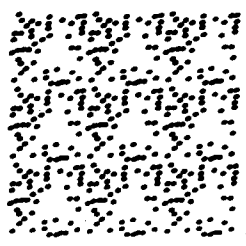
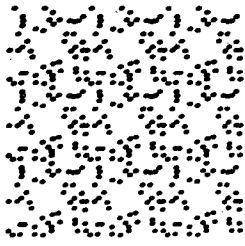
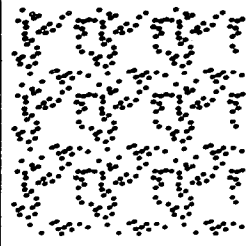
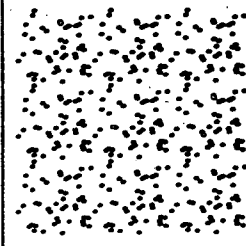
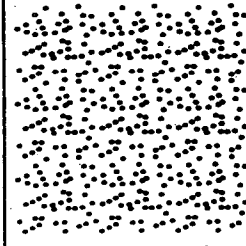
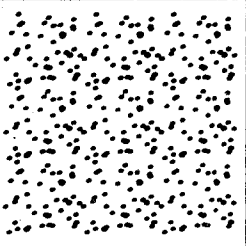
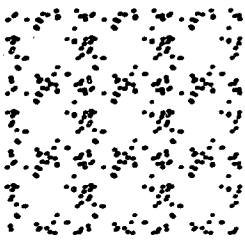
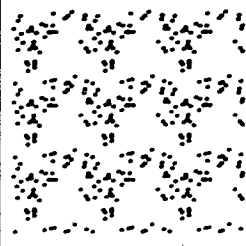
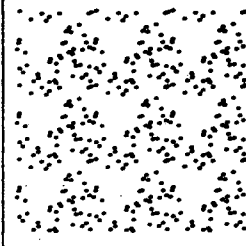
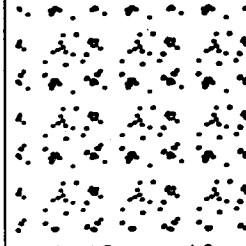
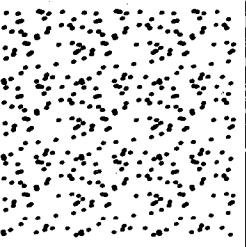
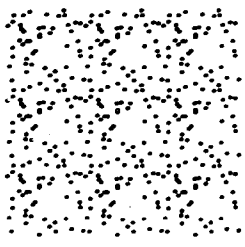
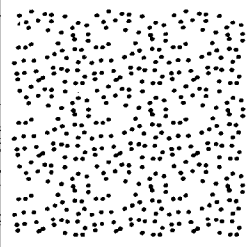
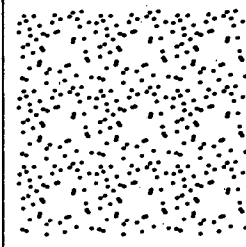
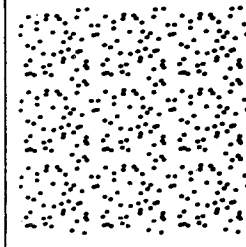
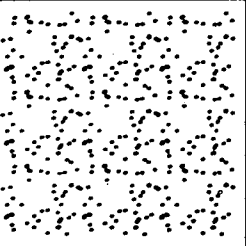
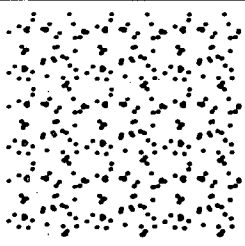
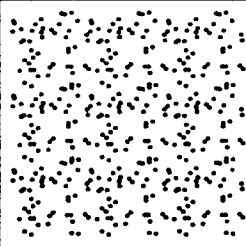
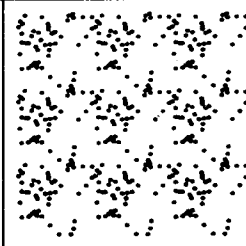
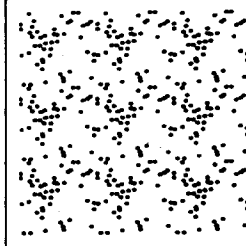
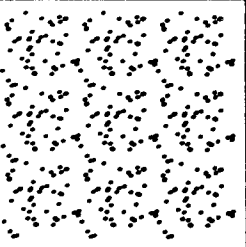
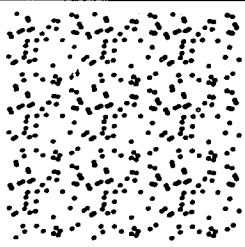
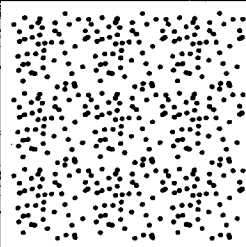
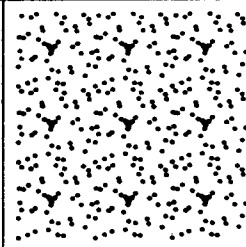
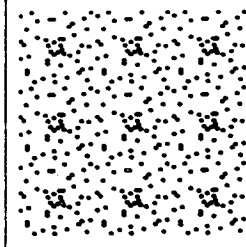
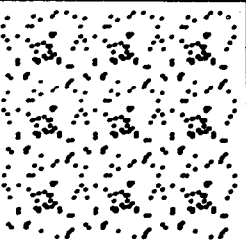
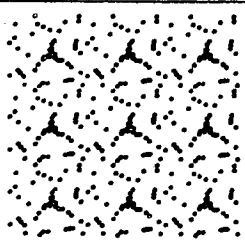
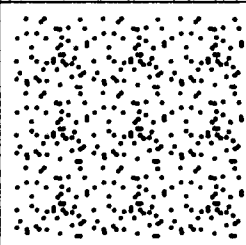
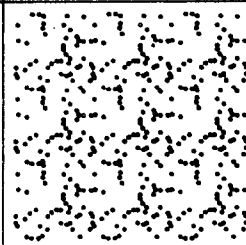


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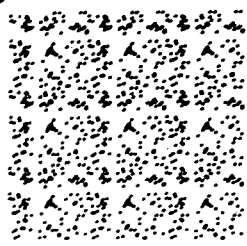
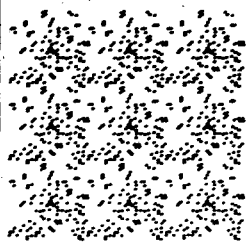
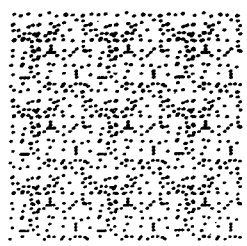
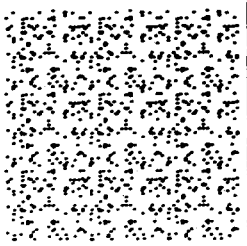
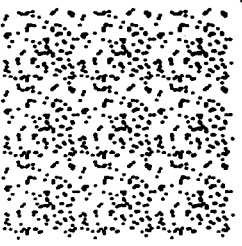
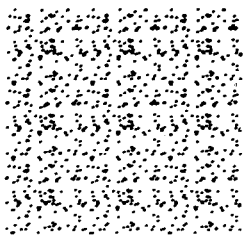
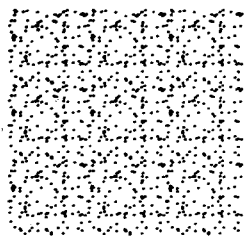
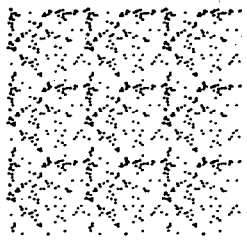
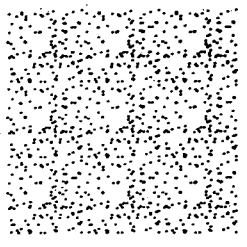
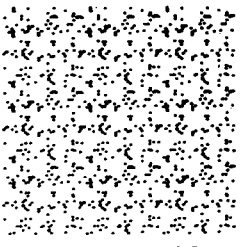
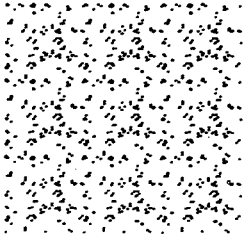
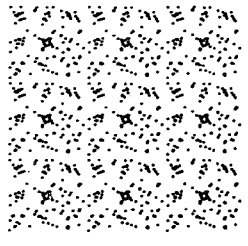
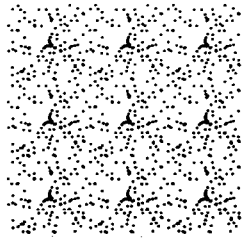
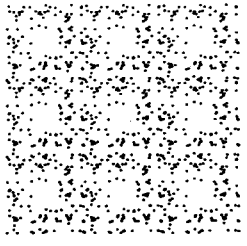
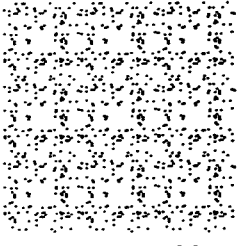

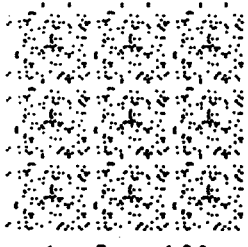
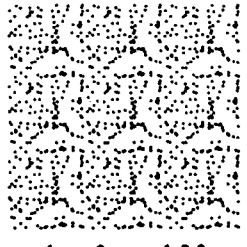
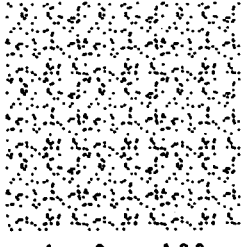
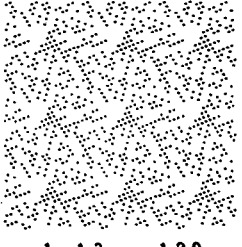
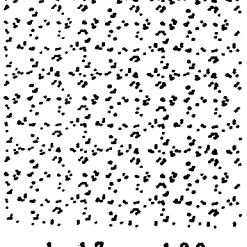
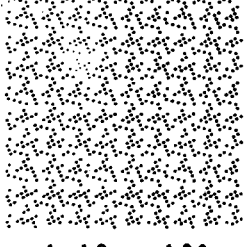
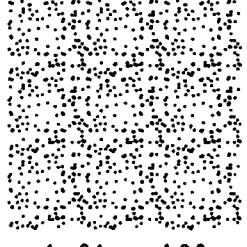
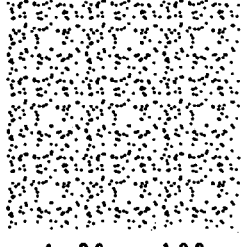
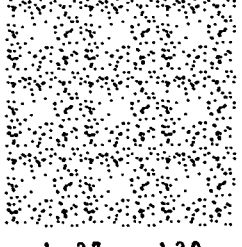
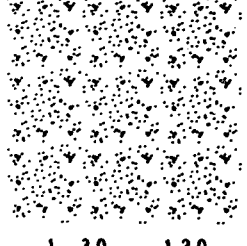
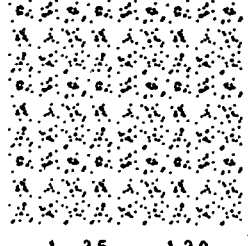
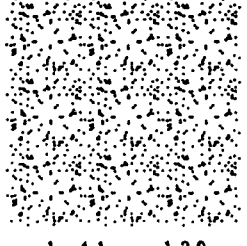
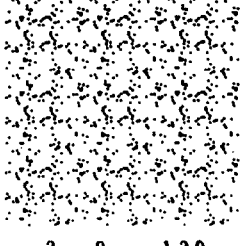


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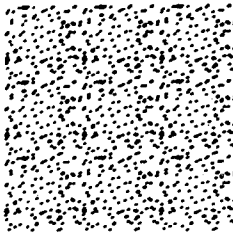
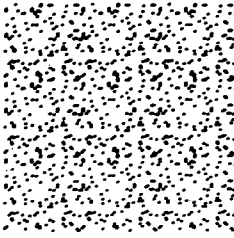
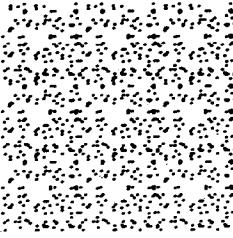
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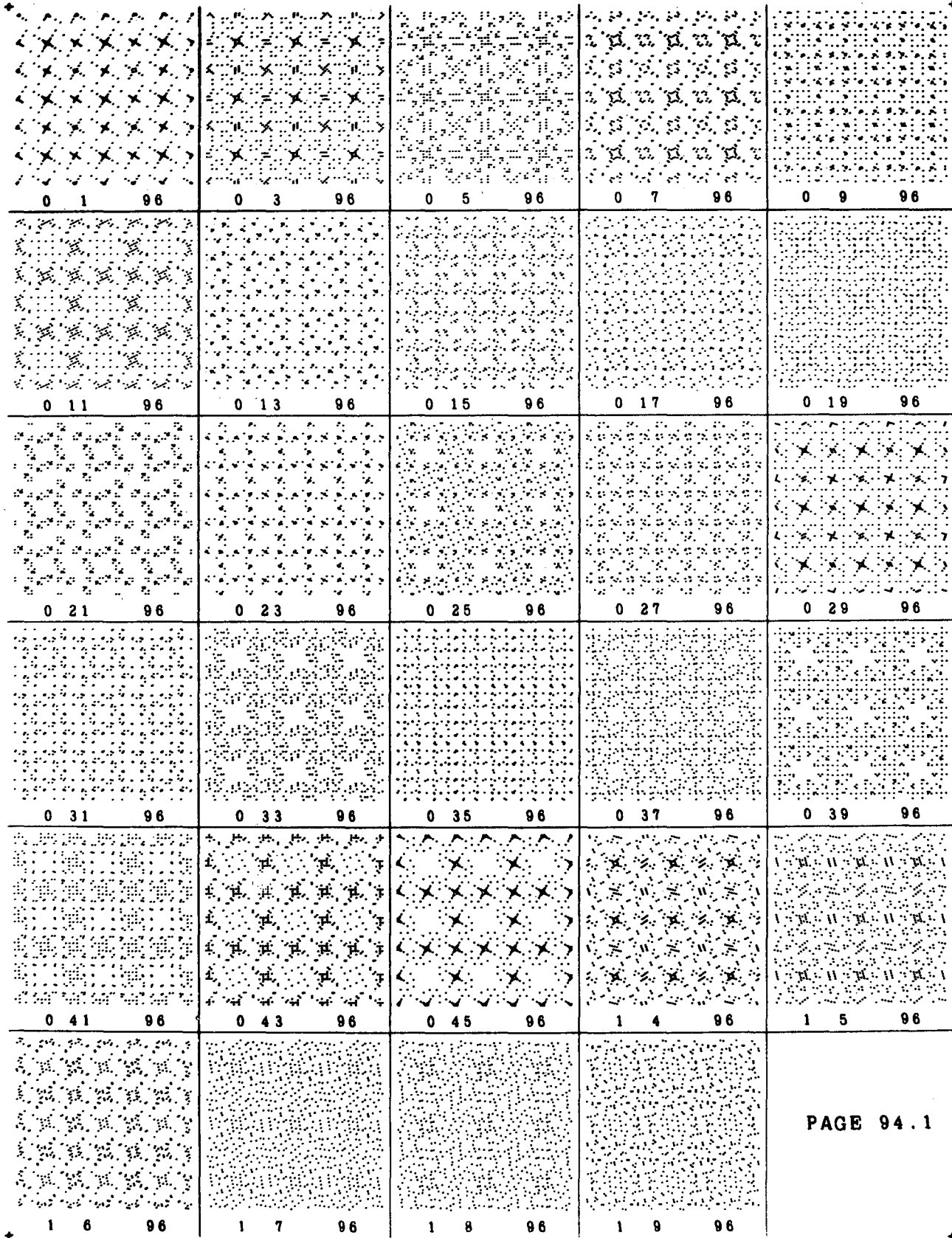
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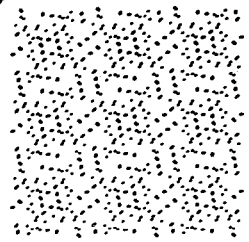
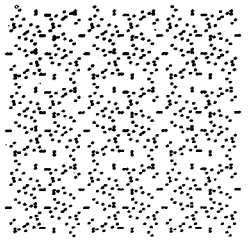
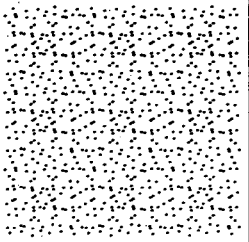
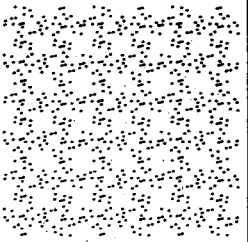
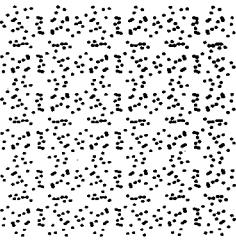
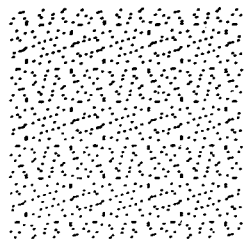
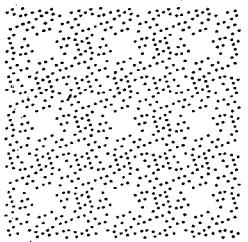
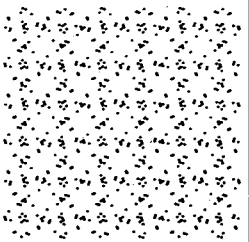
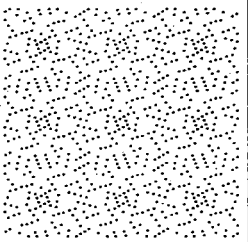
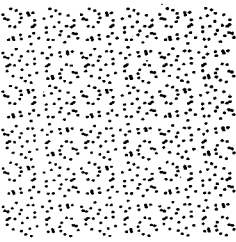
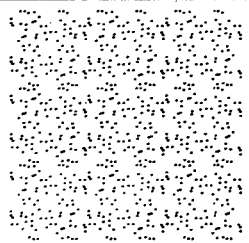
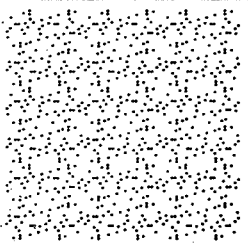
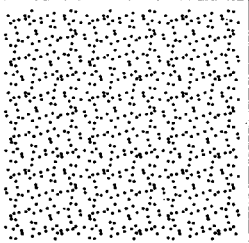
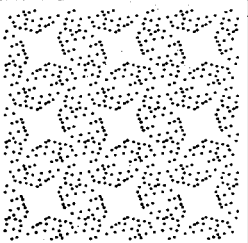
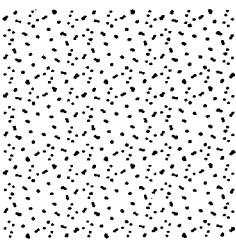
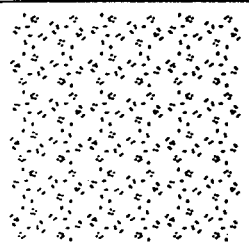
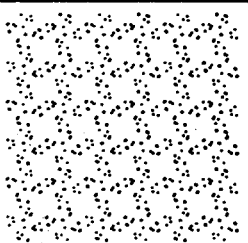
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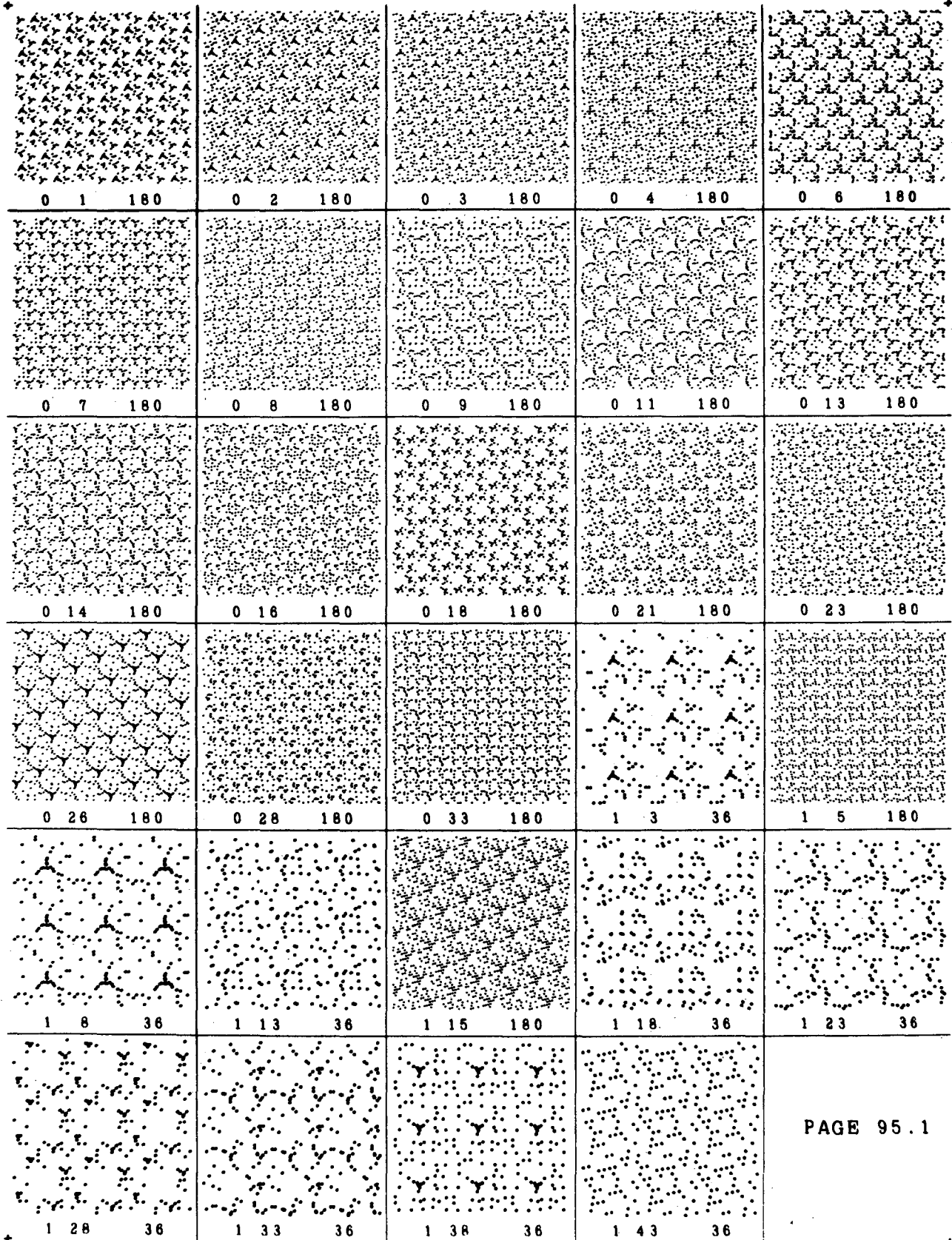
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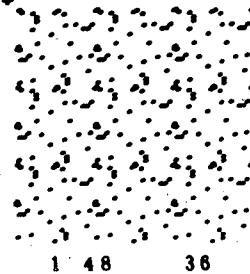
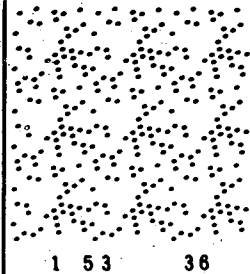
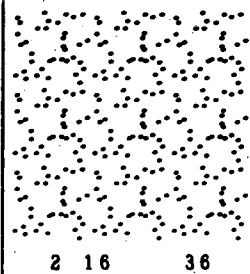
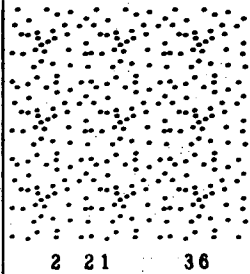
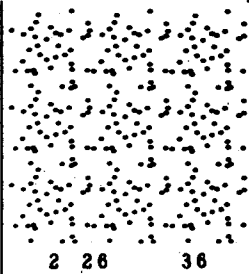
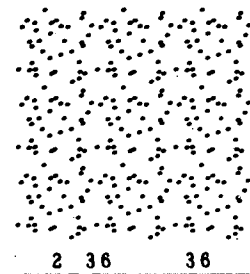
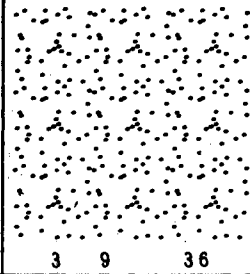
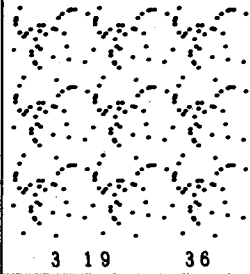
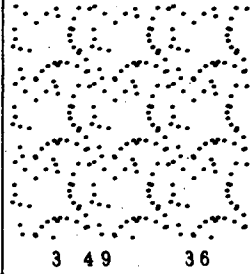
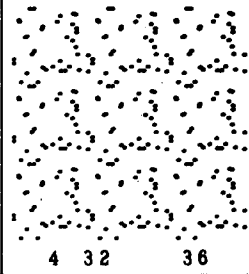
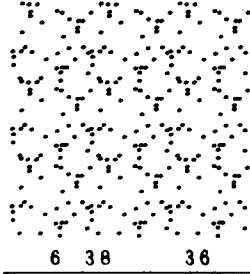
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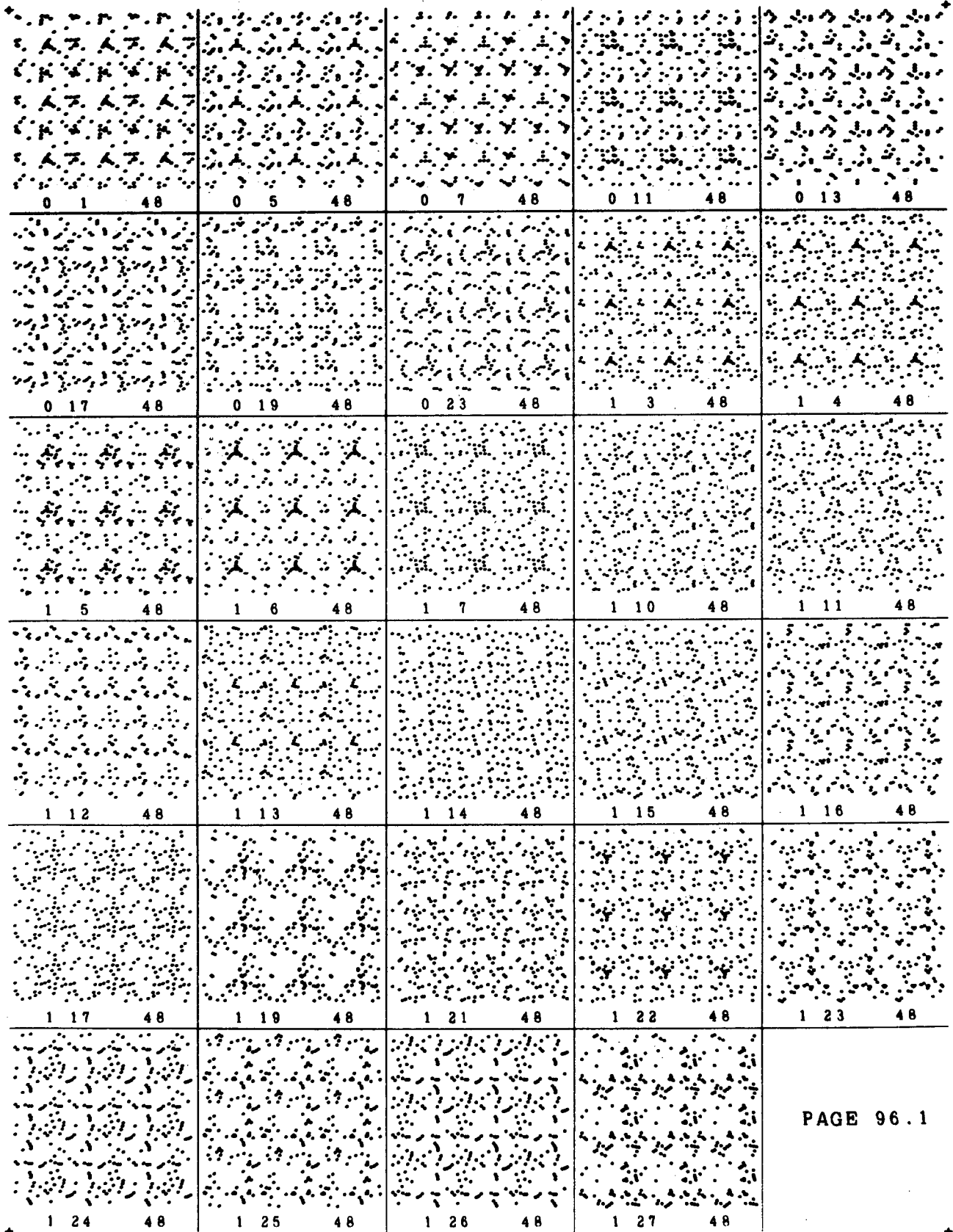
				
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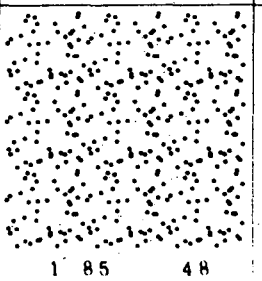
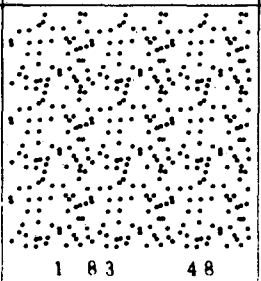
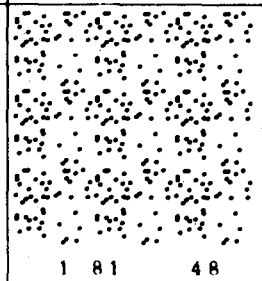
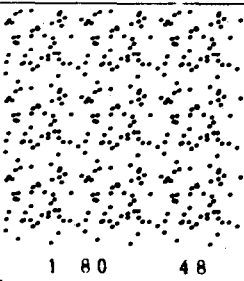
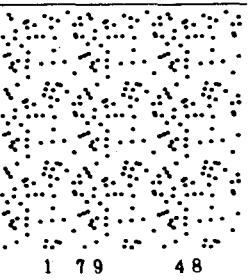
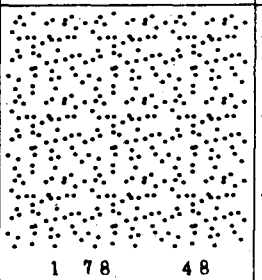
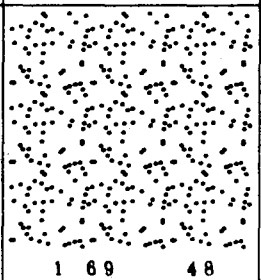
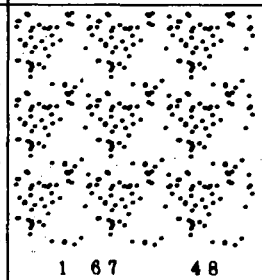
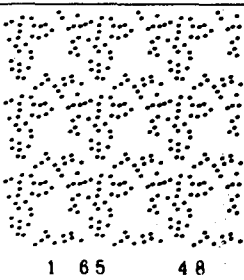
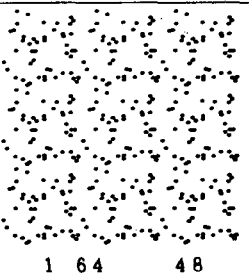
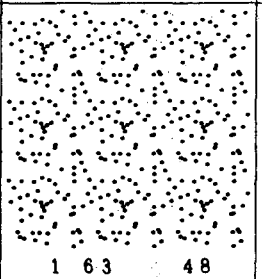
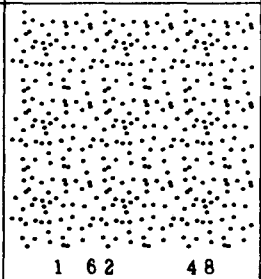
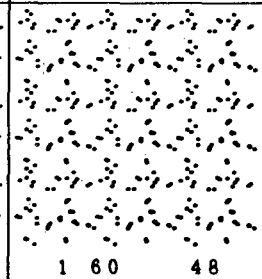
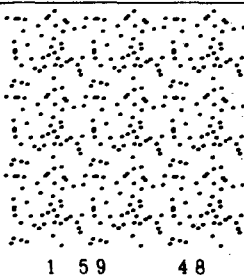
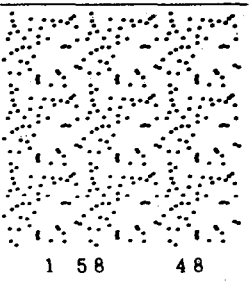
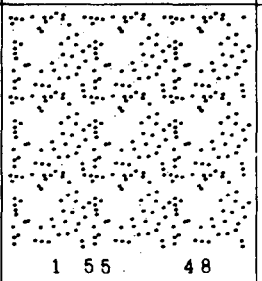
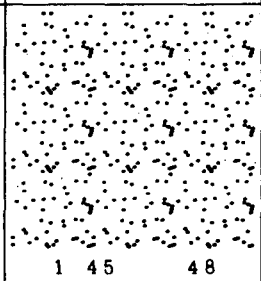
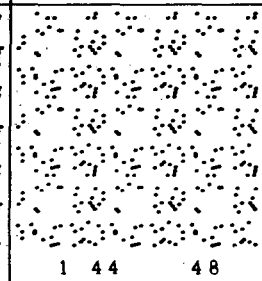
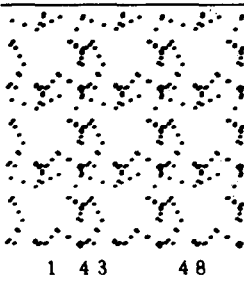
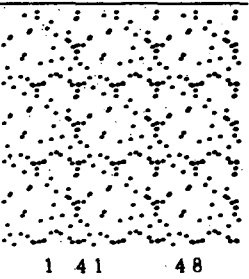
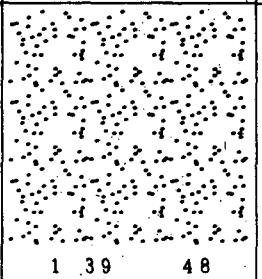
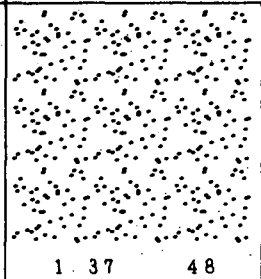
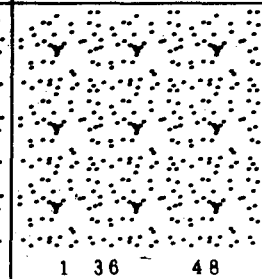
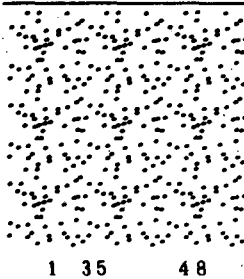
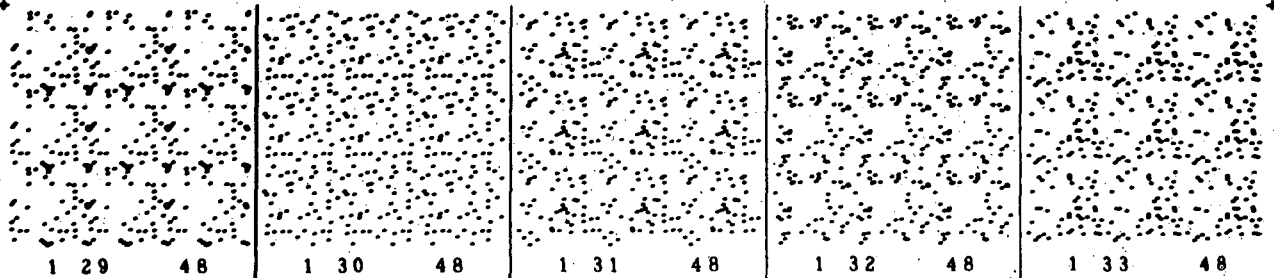


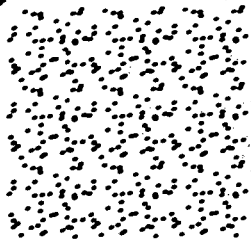
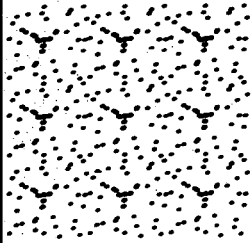
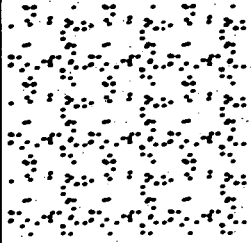
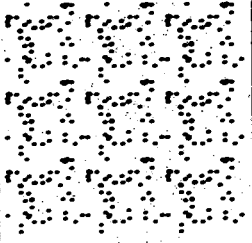
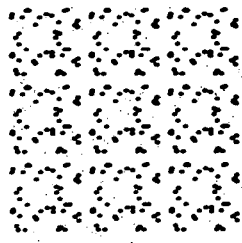
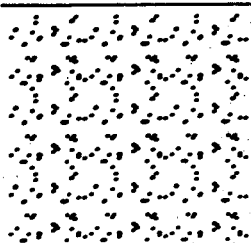
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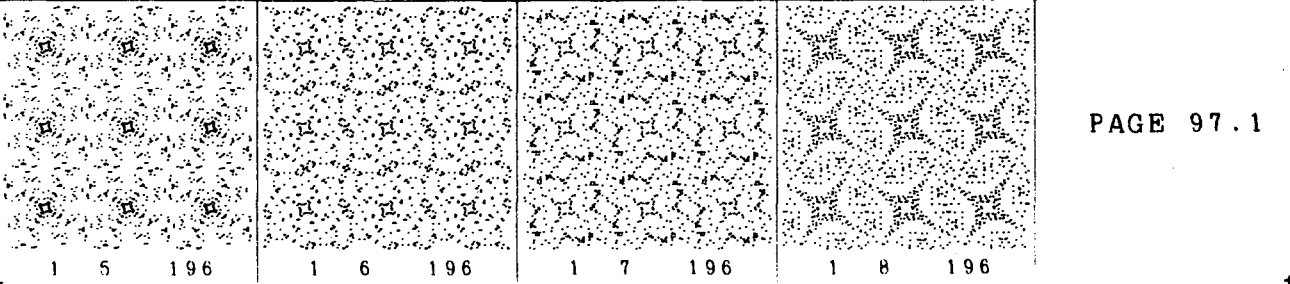
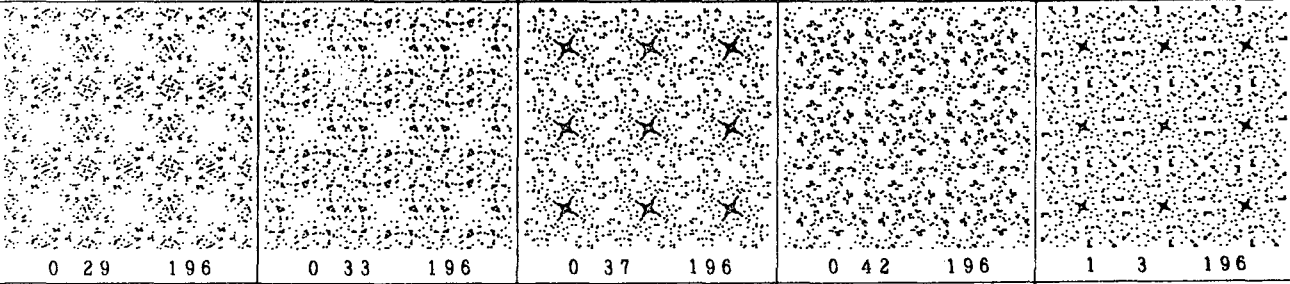
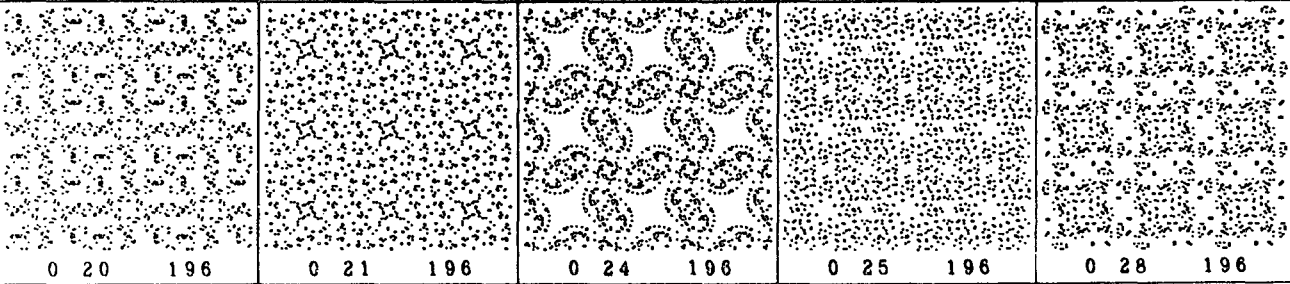
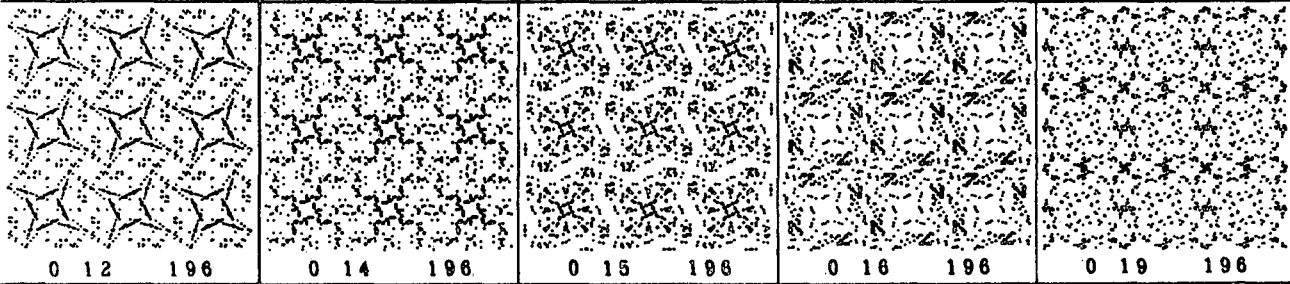
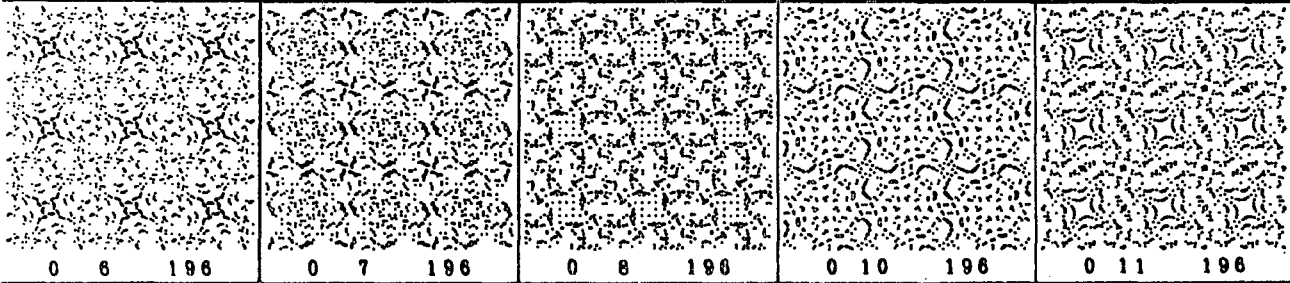
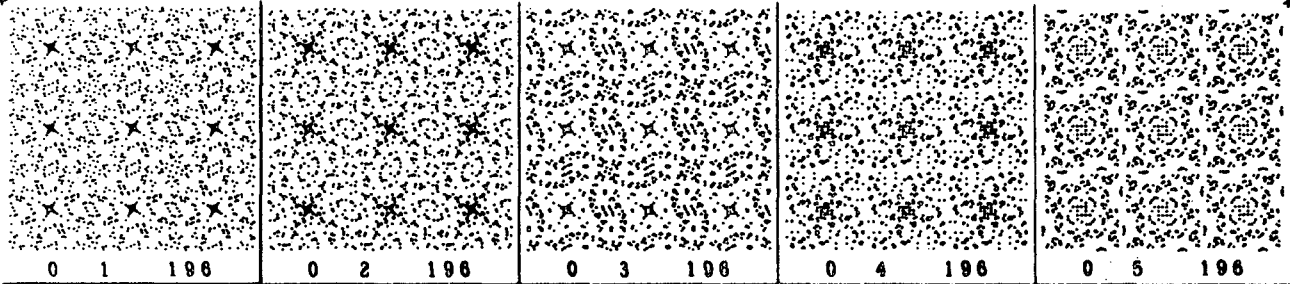


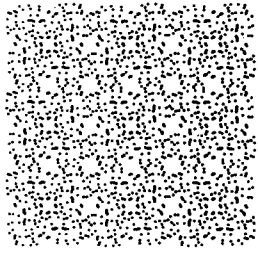
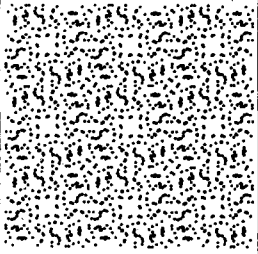
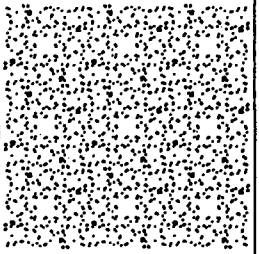
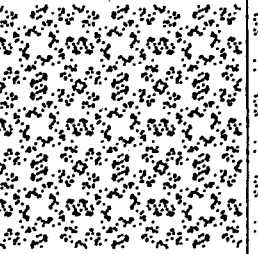
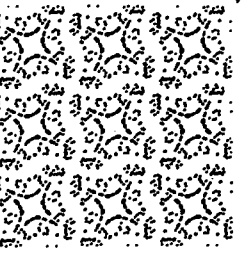
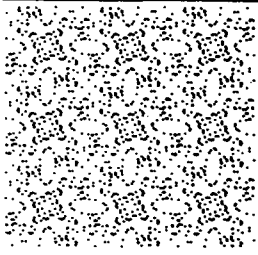
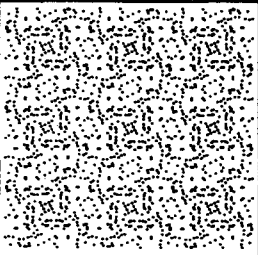
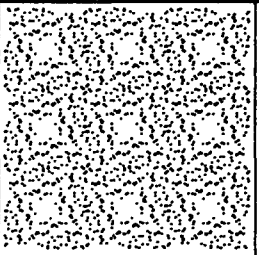
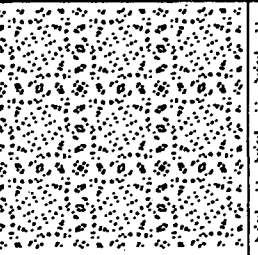
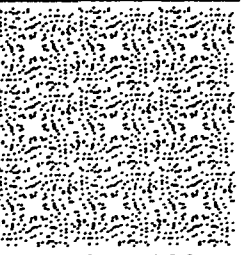
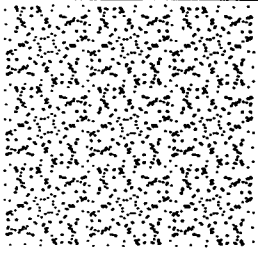
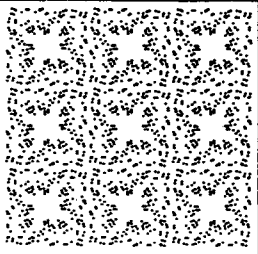
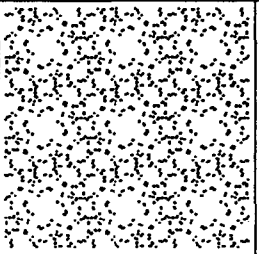
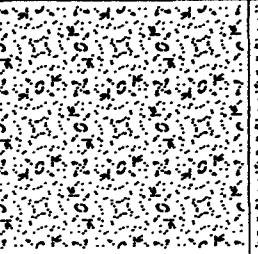
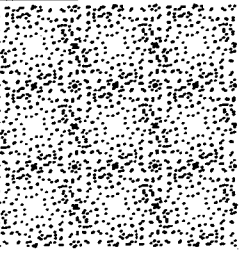
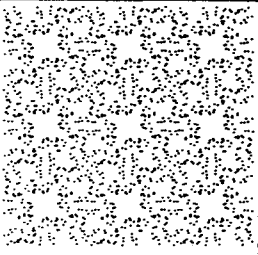
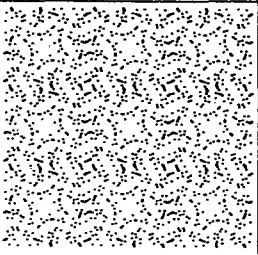
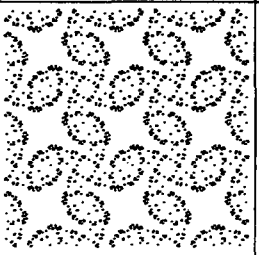
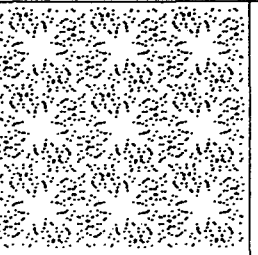
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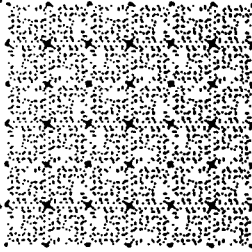
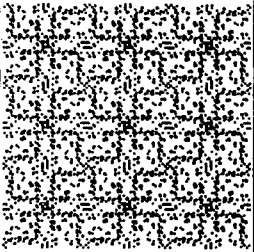
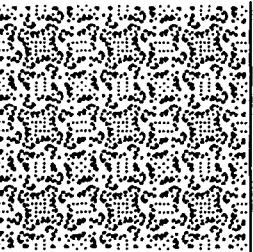
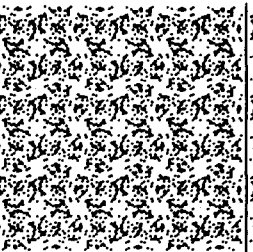
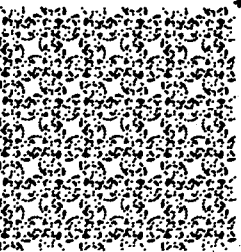
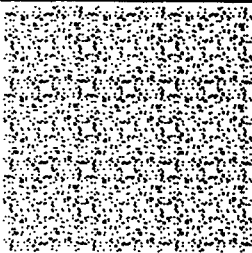
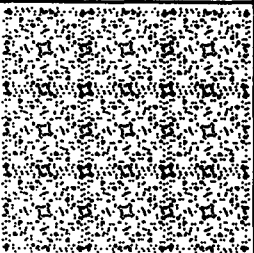
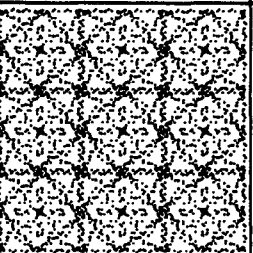
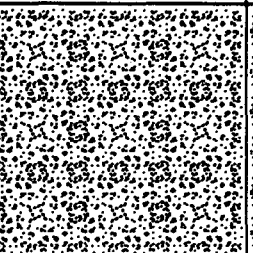
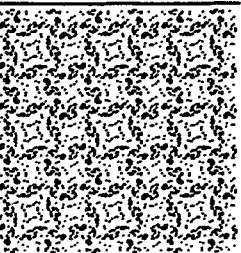
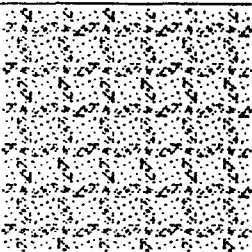
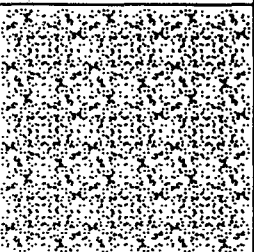
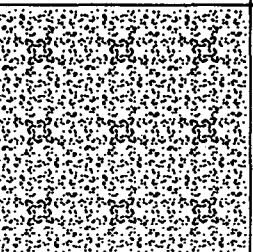
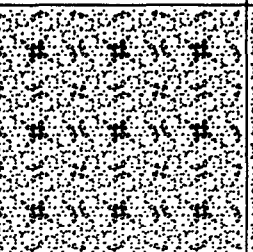
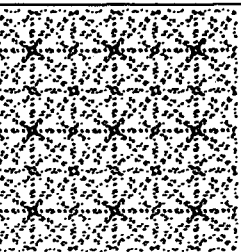
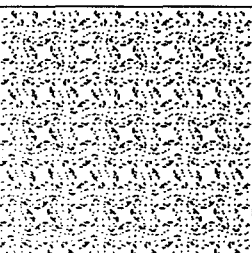
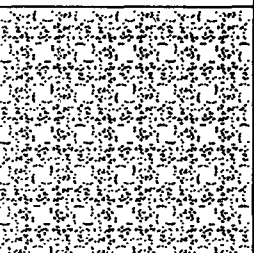
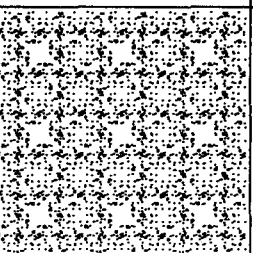
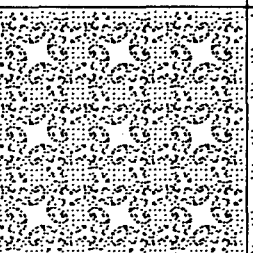
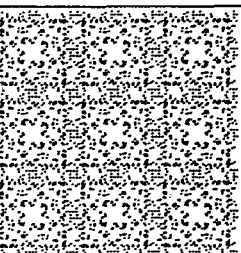
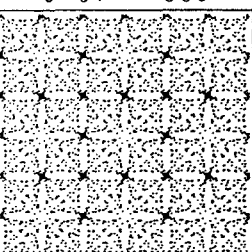


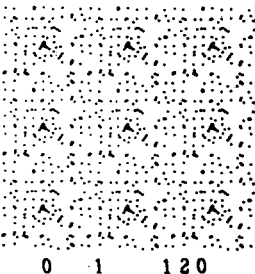
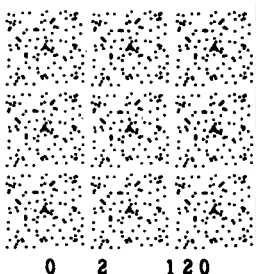
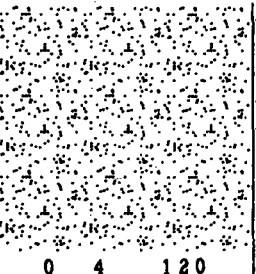
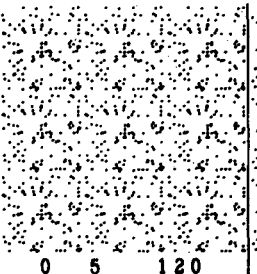
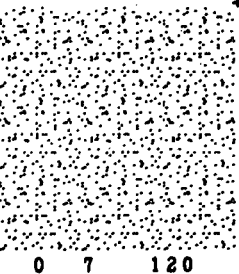
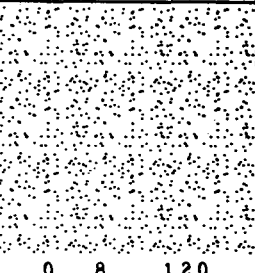
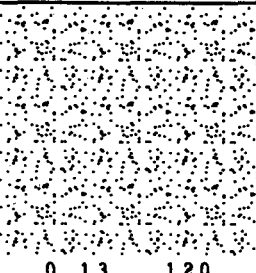
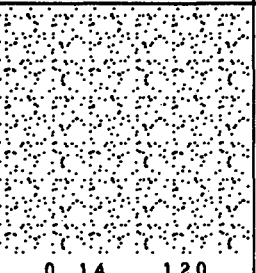
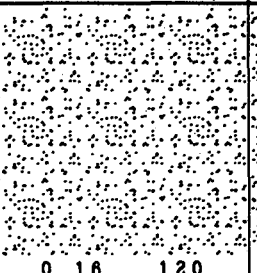
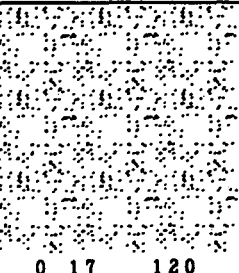
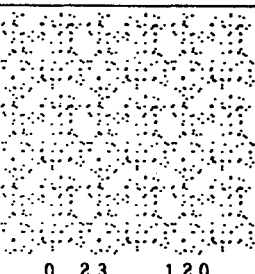
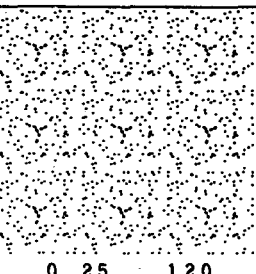
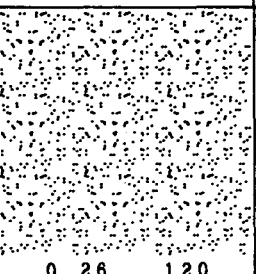
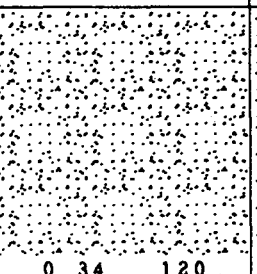
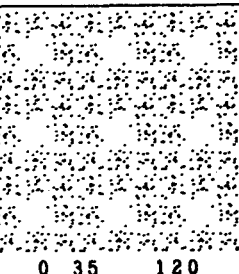
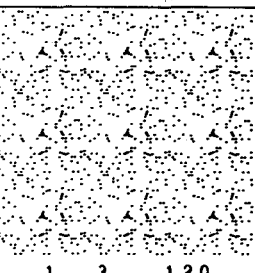
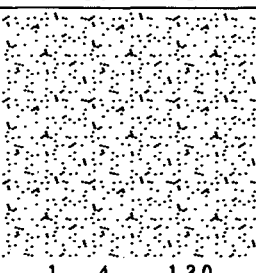
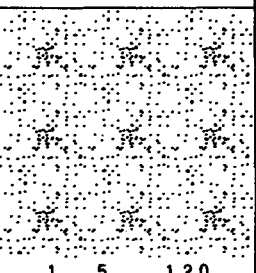
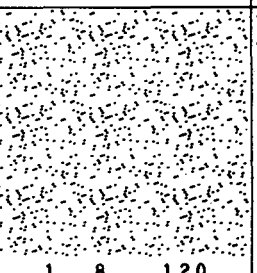
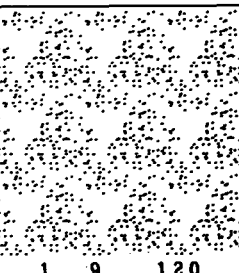
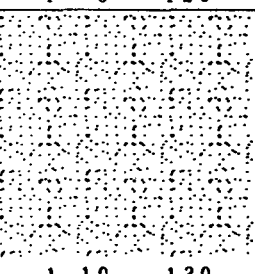
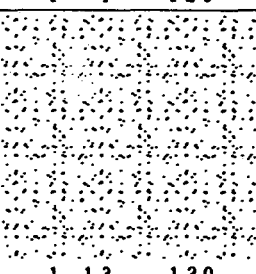
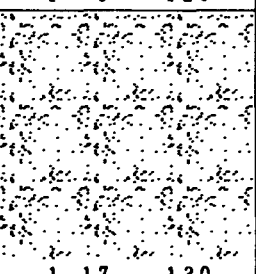
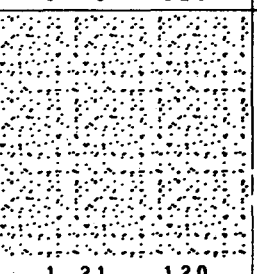
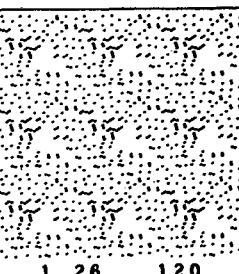
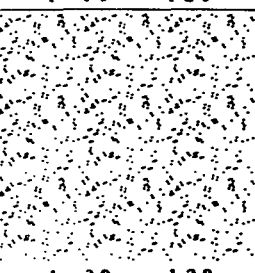
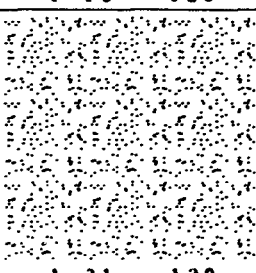
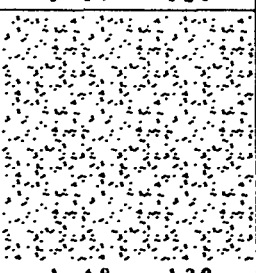
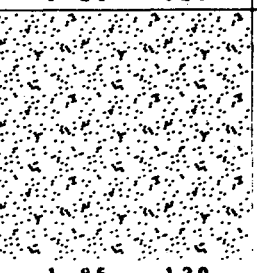


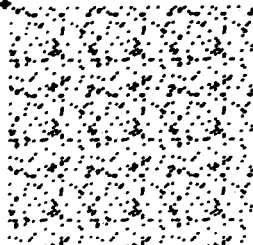
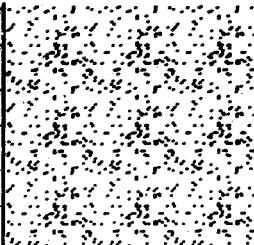
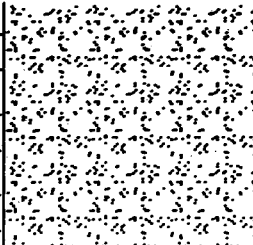
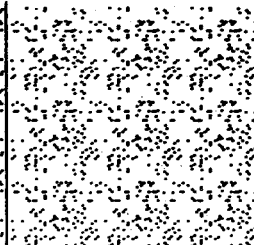
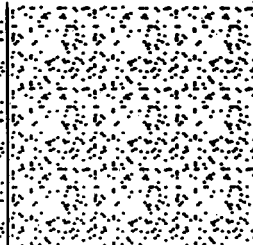
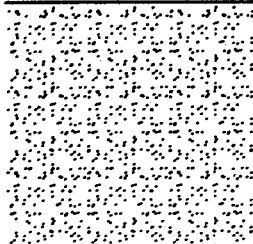
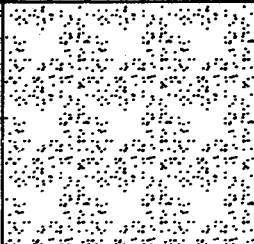
 <p>1 87 48</p>	 <p>1 89 48</p>	 <p>2 25 48</p>	 <p>3 20 48</p>	 <p>4 19 48</p>
 <p>6 23 48</p>				



 1 9 196	 1 12 196	 1 13 196	 1 14 196	 1 15 196
 1 16 196	 1 17 196	 1 18 196	 1 25 196	 1 26 196
 1 28 196	 1 40 196	 1 41 196	 1 43 196	 1 49 196
 2 17 196	 2 19 196	 2 30 196	 3 32 196	

 0 1 336	 0 3 336	 0 5 336	 0 9 336	 0 11 336
 0 13 336	 0 15 336	 0 17 336	 0 19 336	 0 23 336
 0 25 336	 0 27 336	 0 29 336	 0 31 336	 0 33 336
 0 37 336	 0 39 336	 0 41 336	 0 43 336	 0 45 336
 0 47 336				

 0 1 120	 0 2 120	 0 4 120	 0 5 120	 0 7 120
 0 8 120	 0 13 120	 0 14 120	 0 16 120	 0 17 120
 0 23 120	 0 25 120	 0 26 120	 0 34 120	 0 35 120
 1 3 120	 1 4 120	 1 5 120	 1 8 120	 1 9 120
 1 10 120	 1 13 120	 1 17 120	 1 21 120	 1 26 120
 1 30 120	 1 31 120	 1 48 120	 1 85 120	<p>PAGE 99.1</p>

 <p>2 6 120</p>	 <p>2 9 120</p>	 <p>2 15 120</p>	 <p>2 17 120</p>	 <p>2 18 120</p>
 <p>3 29 120</p>	 <p>3 40 120</p>			
				<p>PAGE 99.2</p>

Part II

Generators for

Fibonacci residue cycles

Modulus 2, Period 3
 0: 1
 1 = 0 * 0 # 1 Total

Modulus 3, Period 8
 0: 1
 1 = 0 * 0 # 1 Total

Modulus 4, Period 6
 0: 1 2* 3
 2 = 1 * 0 # 3 Total

Modulus 5, Period 20
 0: 1
 1: 3#
 1 = 0 * 1 # 2 Total

Modulus 6, Period 24
 0: 1 2* 3*
 1 = 2 * 0 # 3 Total

Modulus 7, Period 16
 0: 1 2 3
 3 = 0 * 0 # 3 Total

Modulus 8, Period 12
 0: 1 2* 3 4* 6*
 1: 3 4
 4 = 3 * 0 # 7 Total

Modulus 9, Period 24
 0: 1 2 3* 4
 3 = 1 * 0 # 4 Total

Modulus 10, Period 60
 0: 1 2* 5*
 1: 3#
 2: 6*
 1 = 3 * 1 # 5 Total

Modulus 11, Period 10
 0: 1 2 3 4 5 6 7 8 9 10
 1: 4# A
 2: 8#
 11 = 0 * 2 # 13 Total

Modulus 12, Period 24
 0: 1 2* 3* 4* 6* 7 9*
 1: 3 5
 4 = 5 * 0 # 9 Total

Modulus 13, Period 28
 0: 1 2 4
 1: 3 4 5
 6 = 0 * 0 # 6 Total

Modulus 14, Period 48
 0: 1 2* 3 4* 5 6* 7*
 3 = 4 * 0 # 7 Total

Modulus 15, Period 40
 0: 1 2 3* 4 5* 8
 1: 3# 8# 13#
 2: 6#
 3: 9*
 4 = 3 * 4 # 11 Total

Modulus 16, Period 24
 0: 1 2* 3 4* 5 6* 7 8* 12*
 1: 3 4 5 11
 2: 6* 8*
 8 = 7 * 0 # 15 Total

Modulus 17, Period 36
 0: 1 2 3 6
 1: 3 4 7 9
 8 = 0 * 0 # 8 Total

Modulus 18, Period 24
 0: 1 2* 3* 4* 5 6* 7 8* 9*
 1: 4 5 7 9 12 13
 9 = 6 * 0 # 15 Total

Modulus 19, Period 18
 0: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 16 17 18
 1: 5# 15
 2: 10#
 19 = 0 * 2 # 21 Total

Modulus 20, Period 60
 0: 1 2* 3 4* 5* 10* 11 13 15*
 1: 3# 8# 18#
 2: 6*
 3: 14#
 4: 12*
 4 = 7 * 4 # 15 Total

Modulus 21, Period 16
 0: 1 2 3* 4 6* 7* 8 9* 11 16
 1: 3 4 5 6 7 9 11 13 15 16 17 18 19
 2: 5 8 9 18
 3: 17
 24 = 4 * 0 # 28 Total

Modulus 22, Period 30
 0: 1 2* 3 4* 5 6* 7 8* 9 10* 11* 12* 13 14* 15
 16* 17 18* 19 20* 21
 1: 4# 8
 2: 8* 16* 19#
 4: 16*
 11 = 14 * 2 # 27 Total

Modulus 23, Period 48
 0: 1 2 3 4 5 6 7 8 9 10 11
 11 = 0 * 0 # 11 Total

Modulus 24, Period 24
 0: 1 2* 3* 4* 5 6* 7 8* 9* 11 12* 14* 18*
 1: 3 4 5 6 7 8 11 12 15 17 19
 2: 5 6* 10*
 3: 9* 12*
 16 = 13 * 0 # 29 Total

Modulus 25, Period 100
 0: 1 2 3 5* 6 9
 1: 3# 8# 13#
 2: 6#
 3: 9#
 5: 15*
 5 = 2 * 5 # 12 Total

Modulus 26, Period 84
 0: 1 2* 3 4* 7 8* 13*
 1: 3 4 5
 2: 6* 8* 10*
 6 = 7 * 0 # 13 Total

Modulus 27, Period 72
 0: 1 2 3* 4 5 6* 7 8 9* 10 11 12* 13
 9 = 4 * 0 # 13 Total

Modulus 28, Period 48
 0: 1 2* 3 4* 5 6* 7* 8* 10* 12* 14* 15 17 19 21*
 1: 3 4 7 9 10
 2: 5
 12 = 9 * 0 # 21 Total

Modulus 29, Period 14
 0: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28
 1: 4 5 6 7 8 10 12 13 17 18 20 22 23 24# 26
 2: 5 7 8 11 12 16 19# 20 23 24 26
 3: 7 15 17 21
 4: 9# 19
 5: 11
 8: 18#
 58 = 0 * 4 # 62 Total

Modulus 30, Period 120
 0: 1 2* 3* 4* 5* 6* 7 8* 10* 13 15* 16* 19
 1: 3# 8# 13#
 2: 6* 16* 21# 26*
 3: 9*
 4: 12*
 6: 18*
 4 = 15 * 4 # 23 Total

Modulus 31, Period 30
 0: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
 1: 13 19#
 3: 26#
 31 = 0 * 2 # 33 Total

Modulus 32, Period 48
 0: 1 2* 3 4* 5 6* 7 8* 9 10* 11 12* 13 14* 15
 16* 24*
 1: 3 4 5 6 11 13 19 27
 2: 6* 8* 10* 22*
 4: 12* 16*
 16 = 15 * 0 # 31 Total

Modulus	33,	Period	40												
0:	1	2	3*	4	5	6*	7	8	9*	10	11*	12*	14	15*	17
	18*	20	21*	24*	27*	30*									
1:	3	4	5	8	9	10	11	17	19						
2:	6	8	13	18											
3:	7	12*	24*												
6:	24*														
	24 =		14 *		0 #										38 Total

Modulus	34,	Period	36												
0:	1	2*	3	4*	6*	7	9	12*	17*						
1:	3	4	5	6	7	8	9	11	14	16	17	20	25	26	28
	30	31													
2:	6*	7	8*	9	14*	18*	27								
	24 =		9 *		0 #										33 Total

Modulus	35,	Period	80												
0:	1	2	3	4	5*	7*	8	9	10*	11	15*	16	17	22	23
	29														
1:	3#	8#	13#	18#	28#	33#									
2:	11#	16#	31#												
3:	14#	24#													
4:	27#														
7:	21#														
	12 =		5 *		12 #										29 Total

Modulus	36,	Period	24												
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	12*	14*	16*	18*	19
	21*	23	25	27*											
1:	3	4	5	6	7	9	11	12	13	15	17	19	23	25	26
	27	29	30	34											
2:	5	7	8*	9	10*	13	14*	16*	24*	26*	29	33			
3:	9*	11	15*	19	32										
4:	9														
5:	13														
	36 =		21 *		0 #										57 Total

Modulus	37,	Period	76						
0:	1	2	3	4	5	8	9	10	15
1:	3	5	6	10	11	12	15		
2:	7	19							
	18 =		0 *		0 #				18 Total

														Page	7
Modulus	43,	Period				88									
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21									
	21 =	0 *			0 #		21 Total								

Modulus	44,	Period				30									
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11*	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33*	34*	35	36*	37	38*	39	40*	41	42*	43		
1:	4	6	7	8	9	11	13	15	18	19	21	25	30	39	
2:	7	8*	15	16*	17	19	29	37	39	41					
3:	10	18	20	24	29										
4:	11	16*	32*	38*											
8:	32*														
	48 =	29 *			0 #		77 Total								

Modulus	45,	Period				120									
0:	1	2	3*	4	5*	6*	8	9*	10*	11	12*	13	15*	17	19
	20*	22	24*	29	31	38									
1:	3#	8#	13#	18#	28#	33#	43#								
2:	6#	11#	21#	36#	41#										
3:	9*	24*	39*												
6:	18*														
9:	27*														
	12 =	14 *			12 #		38 Total								

Modulus	46,	Period				48									
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23*							
1:	4	5	7	8	9	11	12	14	22	23	26	28	29	31	33
	35	38	43												
2:	7	41													
3:	11	34													
	33 =	12 *			0 #		45 Total								

Modulus	47,	Period				32									
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23							
1:	4	5	6	7	8	9	10	12	13	14	16	18	19	20	22
	26	27	28	29	34	35	36	38	40	41	42	43	44		
2:	7	11	12	13	16	20	29	31	32	33	37	38			
3:	15	18	19	31	32	35									
	69 =	0 *			0 #		69 Total								

Modulus	57,	Period												72	
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19*	21*	22	24*	25	27*	28	30*	31	33*	34	36*
	37	39*	42*	45*	48*	51*	54*								
1:	3	4	5	11	12	14	15	16	18	20	26	27	29	53	
2:	7	8	10	17	19										
3:	8	15*	45*												
4:	14	15													
6:	30*														
	40 =		22 *			0 #			62 Total						

Modulus	58,	Period												42	
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29*	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57			
1:	4	5	6	7	8	10	12	13	17	18	20	22	23	24#	26
2:	5	7	8*	10*	11	12*	14*	16*	19#	20*	23	24*	26*	34*	36*
	37	40*	41	44*	45	46*	48*	49	52*	53	55				
3:	7	15	17	21											
4:	9#	10*	14*	16*	19	22*	24*	32*	38*	40*	46*	48*	52*		
5:	11														
6:	14*	30*	34*	42*											
8:	18*	38*	47#												
10:	22*														
16:	36*														
	58 =		63 *			4 #			125 Total						

Modulus	59,	Period												58	
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58		
1:	26#	34													
2:	52#														
	59 =		0 *			2 #			61 Total						

Modulus	60,	Period												120	
0:	1	2*	3*	4*	5*	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	19	20*	23	26*	29	30*	32*	33*	35*	38*	39*	45*	
1:	3#	5	6	7	8#	13#	15	17	18#	19	23#	33#	34	38#	43#
	51	58#													
2:	6*	16*	21#	26*	51#										
3:	9*	14#	24*	54*											
4:	12*	32*	42*	52*											
5:	15*	25*													
6:	13#	18*	23#												
7:	46#														
8:	19#	24*													
9:	42*														
12:	36*														
	16 =		37 *			16 #			69 Total						

														Page	11
Modulus	61,	Period			60										
0:	1	2	3	4	5	7	8	9	10	13	14	15	19	20	25
1:	3	4	5	6	8	9	10	12	14	15	17	18	19	20	21
	23	27	28	29	31	33	34	35	37	38	39	41	44	47	49
	53	54	56												
2:	6	10	16	17	18	25	45	46	47						
3:	9	13	15	32											
5:	15														
	62 =	0 *			0 #		62 Total								

Modulus	62,	Period			30										
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31*	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*
	61														
1:	4	6	7	8	9	10	11	12	13	15	18	19#	21	25	27
	29	30	31	32	34	36	38	42	44	46	47	50#	51	52	53
	54	56	57	59											
2:	5	7#	9	21	23	25	26*	27	29	38*	39	41	43	55	57
3:	12	17	18	21	26#	29	35	44	47	53	54	57#			
4:	9	17	51	57											
5:	20	26	44	50											
6:	21#	52*													
7:	54														
	93 =	34 *			6 #		133 Total								

Modulus	63,	Period			48										
0:	1	2	3*	4	5	6*	7*	8	9*	10	11	12*	13	14*	16
	17	18*	19	20	21*	24*	25	26	27*	28*	32	33*	34	40	41
	48*														
1:	3	4	5	6	7	8	9	11	13	14	15	16	17	18	19
	24	25	28	30	34	36	37	39	40	45	46	48	49	51	57
	58	60	61												
2:	5	7	8	9	14	15	18	26	29	30	36	39	50	51	56
	60														
3:	9*	12*	15*	17	18*	21*	27*	33*	35	38	39*	45*	48*	51*	54*
	56	57*	59												
6:	15*	24*	27*	54*											
9:	51*														
	72 =	31 *			0 #		103 Total								

Modulus	64,	Period			96										
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	48*												
1:	3	4	5	6	11	12	13	19	20	22	27	29	35	43	51
	59														
2:	6*	8*	10*	12*	22*	26*	36*	54*							
4:	12*	16*	20*	44*											
8:	24*	32*													
	32 =	31 *			0 #		63 Total								

														Page	12		
Modulus	65,	Period												140			
0:	1	2	3	4	5*	6	8	9	10*	12	13*	16	17	20*	23		
	27																
1:	3#	4	5	7	8#	9	10	11	13#	17	18#	22	23#	24	28#		
	31	33#	37	38#	50	53#	58#										
2:	6#	11#	21#	26#	41#	56#											
3:	9#	14#	34#														
4:	12#	17#	27#	52#													
5:	15*	20*	25*														
8:	24#																
13:	39*																
	24 =	8 *		24 #		56 Total											

Modulus	66,	Period												120			
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11*	12*	13	14*	15*		
	16*	17	18*	19	20*	21*	22*	24*	25	27*	28*	30*	31	33*	34*		
	36*	37	39*	40*	42*	43	45*	48*	51*	54*	57*	60*	63*				
1:	3	4	5	8	9	10	11	17	19								
2:	6*	8*	10*	13	16*	17	18*	19	20*	22*	29	34*	38*				
3:	7	12*	24*														
4:	12*	16*	26*	36*													
6:	14*	24*	48*	57*													
12:	48*																
	24 =	53 *		0 #		77 Total											

Modulus	67,	Period												136		
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	31	32	33													
	33 =	0 *		0 #		33 Total										

Modulus	68,	Period												36		
0:	1	2*	3	4*	5	6*	7	8*	9	11	12*	13	14*	15	17*	
	18*	24*	34*	35	37	39	41	43	45	47	49	51*				
1:	3	4	5	6	7	8	9	10	11	12	14	15	16	17	19	
	20	21	23	24	25	26	27	28	29	30	31	32	38	39	41	
	43	50	51	53	55	58	60	62	64	65	66					
2:	5	6*	7	8*	9	10*	12*	13	14*	16*	18*	21	22*	27	28*	
	29	32*	34*	40*	43	45	49	50*	51	52*	53	56*	57	59	60*	
	61	62*	65													
3:	7	10	16	17	19	22	23	24	28	29	38	42	45	48	56	
	59															
4:	11	12*	14*	16*	18*	28*	36*	54*	63							
5:	16	46	54													
6:	17	21														
	96 =	35 *		0 #		131 Total										

Modulus	69,	Period												48	
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	14	15*	17
	18*	20	21*	23*	24*	25	27*	28	30*	31	33*	34	37	40	43
	47	50	53	56											
1:	3	4	5	6	7	9	11	12	13	14	15	16	17	19	20
	22	24	25	29	30	31	33	35	37	39	44	45	46	48	50
	51	52	54	55	56	58	61	65	66						
2:	8	9	16	21	30	32	33	39	41	44	47	53	57	61	62
	63														
3:	20	29	35												
4:	16	25	45	57	64										
5:	15	16	55												
	88 =		12 *			0 #									100 Total

Modulus	70,	Period												240	
0:	1	2*	3	4*	5*	6*	7*	8*	9	10*	11	13	14*	15*	16*
	17	18*	20*	22*	23	25*	27	29	30*	32*	34*	35*	37	39	44*
	46*	51	58*												
1:	3#	8#	13#	18#	28#	33#									
2:	6*	11#	16*	26*	31#	36*	51#	56*	66*						
3:	14#	24#													
4:	22*	27#	32*	62*											
6:	28*	48*													
7:	21*														
8:	54*														
14:	42*														
	12 =		35 *			12 #									59 Total

Modulus	71,	Period												70	
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70					
1:	9#	63													
7:	63#														
	71 =		0 *			2 #									73 Total

Modulus	72,	Period												24	
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	14*	15*	16*
	18*	19	20*	21*	23	24*	25	27*	28*	29	32*	33*	36*	37	38*
	41	42*	46*	50*	54*	55	59								
1:	3	4	5	6	7	8	9	11	12	13	14	15	17	19	20
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	36	37	39	40	41	42	43	47	48	49	50	51	52	54	55
	56	58	59	60	61	62	63	64	65	66	67	69	70		
2:	5	6*	7	8*	9	10*	11	12*	13	14*	18*	22*	24*	25	26*
	29	30*	33	34*	37	38*	41	43	45	46*	49	50*	52*	53	54*
	55	58*	60*	63	65	67	68*	69							
3:	8	9*	10	11	12*	15*	18*	19	21*	23	24*	25	28	32	33*
	36*	38	40	45*	50	51*	55	57*	58	59	62	64	65	67	68

														Page	15
Modulus	76,	Period			18										
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19*	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57*	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
1:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	19	20	21	22	23	24	26	28	29	31	33	34	35	36	37
	38	39	41	42	43	44	46	48	51	53	54	55	56	57	58
	59	60	61	63	64	65	67	69	70	71	72	73			
2:	5	7	8*	9	10*	11	12*	13	16*	17	18*	19	20*	21	23
	25	26*	27	29	30*	31	32*	33	34*	36*	38*	40*	44*	45	46*
	47	48*	51	52*	53	55	57	58*	59	61	62*	63	65	66*	67
	68*	70*	71	73											
3:	7	8	11	13	14	15	16	17	18	19	21	22	23	26	27
	28	31	32	33	34	35	36	39	42	47	48	50	53	54	56
	57	58	60	61	62	64	68	69							
4:	9	14*	15	17	18*	19	20*	29	33	34*	38*	42*	43	47	50*
	51	53	55	58*	60*	61	66*	67	69						
5:	11	12	17	18	19	21	25	29	30	31	34	40	41	42	50
	51	52	53	56	57	60	62	63	67	68	70				
6:	13	15	16*	17	30*	31	32*	33	46*	52*	54*	62*	65	67	68*
	69														
7:	16	17	18	19	20	24	26	28	38	39	55	56	59	67	
8:	18*	23	30*	39	40*	45	55	58*	61	65					
9:	19	32	48	51											
10:	24*	31	38*	49	50*	60*									
11:	28	31	63												
12:	27														
13:	29	56													
15:	51														
18:	49														
240 =		87 *			0 #			327 Total							

Modulus	77,	Period			80										
0:	1	2	3	4	5	6	7*	8	9	10	11*	12	13	14*	15
	17	18	19	20	21*	22*	24	26	27	28*	29	31	33*	35*	36
	38	40	42*	43	45	47	49*	52	54	56*	61	63*	70*		
1:	3	4	6	8	10	11	14	15	16	18	19	21	23	24	28
	30	31	39	42	74										
2:	5	6	7	8	11	12	19	22	28	41	48	62			
3:	9	11	13	18	40	52									
4:	19	47	56												
6:	18														
7:	28*	56*													
14:	56*														
72 =		16 *			0 #			88 Total							

Modulus		78, Period 168													
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13*	14*	16*
	17	19	20*	21*	22*	23	24*	25	26*	29	32*	35	36*	39*	41
	44*	47	50*												
1:	3	4	5	7	9	11	16	17	22	30					
2:	6*	7	8*	10*	14*	18*	22*	32*	34*	35	44*	60*			
3:	9*	12*	15*												
4:	14*	64*													
6:	18*	24*	30*												
	24 =	39 *	0 #	63 Total											

Modulus		79, Period 78													
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78												
1:	30	50#													
3:	71#														
	79 =	0 *	2 #	81 Total											

Modulus		80, Period 120													
0:	1	2*	3	4*	5*	6*	7	8*	9	10*	11	12*	13	15*	16*
	17	18*	19	20*	21	22*	23	25*	26*	27	29	30*	31	33	35*
	37	38*	39	40*	44*	46*	52*	60*	66*						
1:	3#	4	5	6	8#	11	13#	14	18#	19	20	21	23#	27	28#
	33#	35	38#	43#	44	46	48#	51	58#	59	63#	67	73#	75	78#
2:	6*	8*	10*	11#	12*	16*	21#	22*	26*	28*	36*	38*	46*	54*	66*
	70*	76*													
3:	9#	14#	24#	34#	49#	54#	64#	74#							
4:	12*	17#	22*	27#	32*	42*	72*								
5:	15*	20*	25*	55*											
6:	18*	28*	33#	48*	68*										
8:	19#	24*	34*												
9:	42#	62#													
10:	30*	40*													
11:	23#	28#													
12:	56*	66*													
16:	48*														
22:	46*														
	32 =	59 *	32 #	123 Total											

Modulus		81, Period 216													
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19	20	21*	22	23	24*	25	26	27*	28	29	30*
	31	32	33*	34	35	36*	37	38	39*	40					
	27 =	13 *	0 #	40 Total											

														Page	17	
Modulus	82,	Period												120		
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15	
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*	
	31	32*	33	34*	35	36*	37	38*	39	40*	41*					
1:	4	5	6	7	8	10	11	14	19	23	26	28	33	35	36	
	37															
2:	8*	10*	12*	14*	16*	20*	21	22*	25	27	28*	33	38*	46*	49	
	51	52*	56*	66*	70*	72*	74*									
4:	16*	20*	32*	44*	50*	66*										
	42 =	43 *		0 #		85 Total										

Modulus	83,	Period												168		
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	31	32	33	34	35	36	37	38	39	40	41					
	41 =	0 *		0 #		41 Total										

Modulus	84,	Period												48		
0:	1	2*	3*	4*	5	6*	7*	8*	9*	10*	11	12*	14*	15*	16*	
	17	18*	19	21*	22*	23	24*	25	28*	29	30*	31	32*	36*	37	
	38*	42*	43	44*	45*	49*	50*	51*	57*	58*	63*	64*	71			
1:	3	4	5	6	7	9	10	11	13	15	16	17	18	19	20	
	22	24	26	27	28	30	31	32	34	35	36	38	39	40	43	
	46	47	48	51	55	58	59	60	66	67	70	71	74	78	79	
	82															
2:	5	6*	7	8*	9	10*	12*	14*	17	18*	19	22*	25	26*	29	
	30*	32*	33	34*	36*	38*	39	47	49	51	53	61	67	69	71	
	81															
3:	7	8	9*	12*	17	19	21*	27*	30*	31	34	35	38	46	59	
4:	10*	12*	16*	18*	20*	21	24*	28*	33	36*	44*	45	52*	55	58*	
	60*	63	64*	68*	72*	73	75	76*	78*							
5:	66															
6:	15*	34*														
7:	15	21*	35*													
8:	20*	32*	36*	43	72*											
12:	68*															
	96 =	75 *		0 #		171 Total										

Modulus	85,	Period												180		
0:	1	2	3	4	5*	6	7	8	10*	12	13	14	15*	17*	19	
	21	23	26	28	30*	37										
1:	3#	4	6	7	8#	9	11	12	13#	15	18#	21	23#	24	26	
	28#	32	33#	38#	43#	45	53#	55	60	68#	72	73#	77	78#		
2:	6#	11#	21#	26#	31#	61#	66#									
3:	14#	19#	24#	29#	64#	74#										
4:	12#	22#	27#													
5:	15*	20*	35*	45*												
6:	33#															
7:	21#	26#														
17:	51*															
	32 =	10 *		32 #		74 Total										

Modulus	86, Period 264														
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43*		
	21 =		22 *			0 #		43 Total							

Modulus	87, Period 56														
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19	20	21*	22	23	24*	25	26	27*	28	29*	30*
	32	33*	35	36*	38	39*	41	42*	44	45*	47	48*	50	51*	53
	54*	56	57*	60*	63*	66*	69*	72*	75*	78*	81*	84*			
1:	3	4	5	6	7	8	9	10	11	12	13	14	17	18	20
	21	22	23	24	26	27	28	29	34	35	37	41	44	46	47
	49	52	55	62	65	68	71	80							
2:	5	6	7	8	11	12	16	19	20	21	22	23	24	26	27
	31	36	37	40	42	45	49	52	54	55	70	82			
3:	7	12*	13	15*	17	18*	21*	22	24*	29	30*	36*	39*	44	50
	51*	54*	60*	66*	69*	72*	78*								
4:	9	12	14	19	25	29	32	44	77	80					
5:	11	18	22	34	40	45	48								
6:	15*	21*	24*	33*	36*	48*	57*	60*	69*	72*	78*				
7:	17														
8:	18														
9:	19	21*	45*	51*	63*										
12:	27*	57*													
15:	33*														
24:	54*														
	120 =		63 *			0 #		183 Total							

Modulus	88, Period 60														
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11*	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33*	34*	35	36*	37	38*	39	40*	41	42*	43	44*	46*
	48*	50*	52*	54*	56*	58*	60*	62*	64*	66*	68*	70*	72*	74*	76*
	78*	80*	82*	84*	86*										
1:	3	4	5	6	7	8	9	11	12	13	14	15	18	19	20
	21	23	24	25	26	27	28	30	32	35	36	38	39	43	50
	52	54	59	63	74	75	83	86							
2:	7	8*	12*	13	14*	15	16*	17	18*	19	22*	26*	29	30*	36*
	37	38*	39	41	42*	50*	60*	78*							
3:	7	8	10	14	17	18	20	24	25	29	36	41	54	62	64
	68	73	74												
4:	9	11	14*	16*	23	25	30*	32*	34*	38*	58*	74*	78*	82*	
5:	14	23	70												
6:	13	20*	21	35	36*	40*	48*	58*							
7:	15														
8:	22*	32*	64*	76*											
11:	33*	44*													
16:	64*														
	96 =		81 *			0 #		177 Total							

4

													Page		19							
Modulus	89,			Period			44															
0:	1	2	3	4	5	6	7	9	10	11	12	14	15	17	19							
	20	22	25	27	30	33	38															
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17							
	18	19	20	21	22	23	24	25	26	27	28	30	31	32	33							
	34	38	39	40	41	42	43	45	47	48	49	50	51	52	53							
	54	58	60	62	64	65	67	68	69	71	72	74	75	76	78							
	79	80	81	82	83	84	85	86														
2:	6	7	8	9	11	12	13	14	15	18	19	22	23	24	26							
	27	29	30	31	35	37	40	41	42	45	46	49	50	56	60							
	61	64	66	67	69	73	76	77	78	79	80	82	83	84								
3:	10	11	13	14	17	20	22	25	29	30	33	36	41	45	47							
	56	59	62	63	67	73	75	78														
4:	12	14	19	22	35	39	45	46	48	54	71	79										
5:	17	20	28	36	46	58	74	77														
6:	22																					
7:	36																					
11:	33																					
180 =	0 *			0 #			180 Total															

													Page		19							
Modulus	90,			Period			120															
0:	1	2*	3*	4*	5*	6*	7	8*	9*	10*	11	12*	13	15*	16*							
	17	18*	19	20*	21*	22*	24*	25*	26*	29	30*	31	34*	35*	38*							
	39*	40*	43	44*	45*	48*	49	53	57*	58*	62*	67	76*									
1:	3#	4	5	6	7	8#	9	10	11	12	13#	14	15	18#	22							
	25	26	28#	30	32	33#	38#	43#	46	48#	49	51	58#	60	61							
	63#	66	67	68#	73#	78#	79	84	88#													
2:	6*	11#	16*	21#	26*	36*	41#	51#	56*	61#	66*	81#	86*									
3:	9*	14#	24*	29#	39*																	
4:	12*	17#	22*	42*	47#	57#	72*	82*														
5:	20*	25*	35*	45*	60*	65*																
6:	13#	18*	48*	63*	73#	78*	83#															
7:	16#	31#	36#	61#	76#																	
9:	27*																					
11:	38#	68#																				
12:	36*																					
18:	54*																					
36 =	59 *			36 #			131 Total															

													Page		19							
Modulus	91,			Period			112															
0:	1	2	3	4	5	6	7*	8	9	10	11	12	13*	14*	15							
	16	18	19	20	22	23	25	26*	28*	29	30	32	33	36	37							
	39*	40	43	46	47	50	53	57	60	64	67	74										
1:	3	4	5	7	9	10	11	16	18	20	22	29	31	33	35							
	42	46	49	59	68	75	85															
2:	5	6	7	8	19	23	35	40	66	79												
3:	17	20	22																			
4:	14																					
7:	21*	28*	35*																			
72 =	9 *			0 #			81 Total															

														Page	21
Modulus	95, Period 180														
0:	1	2	3	4	5*	6	7	8	9	10*	11	12	13	14	15*
	16	17	18	19*	20*	21	23	24	25*	26	28	29	30*	31	33
	34	35*	36	40*	41	43	45*	46	48	50*	51	53	55*	56	58
	60*	63	65*	68	70*	73	75*	80*	85*	90*					
1:	3#	5	8#	13#	15	18#	23#	28#	33#	34	38#	43#	48#	53#	73#
	78#	88#	93#												
2:	6#	10	16#	21#	26#	36#	46#	61#	81#	86#					
3:	9#	14#	19#	49#	54#	89#									
4:	12#	32#	67#	72#											
5:	25*	75*													
6:	18#	38#													
7:	56#	81#	86#												
8:	64#														
10:	50*														
19:	57*														
	40 =		23 *		40 #		103	Total							

Modulus	96, Period 48														
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25	27*	28*	29	30*	31
	32*	33*	34*	35	36*	37	39*	41	42*	43	44*	45*	46*	47	48*
	56*	58*	70*	72*											
1:	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
	34	35	36	37	39	41	43	44	45	51	53	54	55	56	58
	59	60	62	63	64	65	66	67	69	71	73	75	76	78	79
	80	81	82	83	85	87	89	91							
2:	5	6*	8*	9	10*	12*	14*	16*	17	20*	22*	24*	25	28*	29
	30*	32*	33	34*	36*	37	38*	40*	42*	44*	45	46*	48*	50*	54*
	56*	60*	62*	64*	66*	68*	70*	72*	74*	78*	82*	86*			
3:	7	9*	10	11	12*	15*	17	18*	20	22	26	32	33*	35	39*
	40	55	57*	58	59	65	70	74	80	81*	83	88			
4:	10*	12*	13	16*	18*	19	20*	21	24*	28*	32*	33	34*	35	39
	44*	48*	50*	60*	68*	74*	76*								
5:	16	19	64	67	73	78									
6:	14*	18*	20*	22*	23	24*	30*	34*	44*	52*	64*	66*	70*	80*	
7:	39	67	87												
8:	20*	24*	26*	38*	40*	42*	66*	70*							
10:	29	32*	38*												
12:	36*	48*													
14:	78*														
	128 =		117 *		0 #		245	Total							

Modulus	97, Period 196														
0:	1	2	3	4	5	6	7	8	10	11	12	14	15	16	19
	20	21	24	25	28	29	33	37	42						
1:	3	5	6	7	8	9	12	13	14	15	16	17	18	25	26
	28	40	41	43	49										
2:	17	19	30												
3:	32														
	48 =		0 *		0 #		48	Total							

Modulus 98, Period 336

0:	1	2*	3	4*	5	6*	7*	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21*	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35*	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49*											
	21 =		28 *			0 #		49	Total						

Modulus 99, Period 120

0:	1	2	3*	4	5	6*	7	8	9*	10	11*	12*	13	14	15*
	16	17	18*	20	21*	22*	23	24*	25	26	27*	30*	31	32	33*
	34	35	36*	40	41	42*	43	44*	45*	50	51*	52	53	54*	60*
	61	62	63*	70	71	72*	80	81*	90*						
1:	3	4	5	8	9	10	11	13	17	19	21	26	30	31	36
	48	57	58	75	76	85									
2:	5	6	8	9	13	15	17	18	19	26	27	41	42	51	62
	72														
3:	7	9*	12*	15*	24*	27*	29	30*	33*	40	51*	57*			
4:	34	45													
6:	18*	24*	39*	54*											
9:	21*	36*	72*												
18:	72*														
	72 =		41 *			0 #		113	Total						

Modulus 100, Period 300

0:	1	2*	3	4*	5*	6*	7	8*	9	10*	11	12*	13	15*	17
	18*	19	20*	21	22*	23	24*	25*	34*	36*	50*	51	53	55*	57
	59	61	63	65*	67	69	71	73	75*						
1:	3#	8#	13#	18#	28#	38#	43#	63#	78#						
2:	6*	16*	21#	26*	31#										
3:	9#	14#	19#	34#	54#	89#									
4:	12*	17#	32*	42*	52*										
5:	15*	40*	90*												
6:	13#	18*													
7:	66#														
8:	24*														
10:	30*														
12:	38*														
15:	70*														
20:	60*														
	20 =		35 *			20 #		75	Total						

108

													Page	23		
Modulus	101,	Period										50				
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	
	91	92	93	94	95	96	97	98	99	100						
1:	4	6	7	8	10	11	15	17	18	19	21	22	23	24	28	
	29	30	34	37	39	44	47	49	57	58	62	63	65	68	72	
	73	74	77	78	79#	80	81	83	84	85	87	91	92	95	96	
	98															
2:	5	9	12	16	20	22	23	25	34	35	36	38	42	43	44	
	45	46	47	48	57#	59	65	67	69	74	78	89	91	94	98	
3:	12	20	21	29	31	33	41	47	57	73	83	87	88			
4:	10	13#	17	33	37	55	70	87								
5:	37	40	51	62	82	84										
6:	75															
8:	26#															
10:	74															
202 =	0 *						4 #									206 Total

Modulus	102,	Period										72				
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	16*	
	17*	18*	19	20*	21*	22*	23	25	26*	27*	28*	29	31	32*	34*	
	36*	37	40*	43	46*	49	51*	52*	55	58*	61	64*	67			
1:	3	4	5	6	7	8	9	10	11	14	15	16	17	18	20	
	21	23	24	25	26	28	30	31	32	37	38	39	40	41	43	
	44	49	51	52	54	55	58	59	60	61	62	64	65	72	73	
	75	76	77	84	85	87	91	94	95	96	98	99				
2:	6*	7	8*	9	11	12*	13	14*	18*	22*	27	28*	29	42*	43	
	46*	48*	52*	59	61	63	69	77	80*	86*	91	95				
3:	7	8	9*	12*	15*	18*	21*	24*	27*	33*	42*	48*	51*	60*	64	
	75*	78*	84*	90*	93*											
4:	16*	24*	67	73												
5:	17	56	83													
6:	18*	19	21*	24*	27*	42*	54*	81*								
8:	32*															
96 =	67 *						0 #									163 Total

Modulus	103,	Period										208				
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
	46	47	48	49	50	51										
51 =	0 *						0 #									51 Total

														Page	25
Modulus	106,				Period										108
0:	1	2*	3	4*	5	6*	7	8*	10*	11	12*	13	15	16*	17
	20*	21	22*	25	26*	29	30*	34*	35	39	44*	53*			
1:	3	5	6	7	8	9	10	11	12	13	14	16	17	18	19
	20	21	22	24	26	27	30	31	35	38	40	45	46	47	49
	50	51	52	53	57	59	61	62	64	66	67	69	73	77	78
	88	90	97	102											
2:	6*	10*	13	14*	16*	17	18*	22*	28*	32*	35	38*	40*	47	48*
	49	59	61	73	91										
3:	9	27	42	44	65										
4:	12*	15	34*	95											
	78 =		27 *		0 #				105 Total						

Modulus	107,				Period										72
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53							
1:	4	5	6	7	8	10	11	12	14	16	17	18	19	20	21
	25	27	28	29	31	32	33	36	38	39	40	42	44	45	46
	47	49	50	56	58	59	61	62	63	64	65	68	69	75	76
	77	79	80	81	83	84	88	89	91	94	97	98	100	101	102
	103	104													
2:	8	10	15	17	22	23	29	31	32	38	43	45	50	54	55
	59	64	66	71	72	76	78	80	87	92	94	99	101		
3:	14	19	24	29	43	50	60	63	67	81	86	96			
4:	44	45	46	67											
	159 =		0 *		0 #				159 Total						

Modulus	108,				Period										72
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25	26*	27*	28*	30*	32*
	34*	36*	38*	40*	42*	44*	46*	48*	50*	52*	54*	55	57*	59	61
	63*	65	67	69*	71	73	75*	77	79	81*					
1:	3	4	5	6	7	8	9	11	12	13	14	15	17	18	19
	23	25	26	27	29	30	31	32	33	34	39	40	42	43	46
	48	55	58	60	61	63	64	66	70	75	79	81	84	85	87
	90	91	97	99	100	102	106								
2:	5	7	8*	9	10*	12*	13	14*	16*	18*	22*	24*	26*	28*	29
	33	41	45	50*	60*	62*	65	66*	69	77	80*	81	86*	92*	96*
	101	105													
3:	9*	11	12*	14	15*	18*	19	21*	27*	28	32	33*	36*	39*	44
	45*	47	51*	55	57*	68	69*	75*	78*	80	81*	86	87*	90*	91
	102*	104													
4:	9	21	45	81											
5:	13	18	38	66	90										
6:	15*	21*	24*	27*	30*	39*	42*	54*	72*	78*	87*	99*			
7:	24	96													
9:	27*	33*	45*	57*	96*										
12:	27*														
15:	39*														
	108 =		93 *		0 #				201 Total						

														Page	27	
Modulus	111,	Period												152		
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*	
	16	17	19	20	22	23	24*	25	26	27*	28	29	30*	31	32	
	34	35	37*	40	43	45*	46	49	52	55	58	61	64	67	70	
	73															
1:	3	5	6	8	10	11	12	15	16	19	23	27	33	35	40	
	43	47	49	52	64	67	84	90	93							
2:	7	9	16	19	20	32	57	69	75	89						
3:	9*	15*	18*	30*	33*	36*	45*									
4:	11	18														
6:	21*	57*														
	72 =	19 *	0 #	91 Total												

Modulus	112,	Period													48		
0:	1	2*	3	4*	5	6*	7*	8*	9	10*	11	12*	13	14*	15		
	16*	17	18*	19	20*	21*	23	24*	25	26*	27	28*	30*	31	32*		
	33	34*	35*	38*	39	40*	41	42*	45	46*	47	48*	49*	53	54*		
	55	56*	60*	61	62*	68*	69	75	76*	83	84*	90*					
1:	3	4	5	6	7	9	10	11	12	13	14	15	16	18	19		
	21	22	23	25	26	27	29	30	31	32	33	35	37	38	40		
	41	43	45	46	47	48	49	51	53	54	55	56	57	59	60		
	61	62	63	64	65	66	67	70	71	72	73	75	78	80	81		
	82	83	85	87	88	91	92	94	95	97	99	101	102	103	104		
	107	108	110														
2:	5	6*	7	8*	9	10*	12*	13	14*	15	17	18*	20*	22*	25		
	26*	28*	29	30*	32*	37	38*	39	43	50*	52*	53	54*	57	58*		
	62*	64*	65	67	70*	76*	81	86*	90*	92*	94*	108*					
3:	7	8	9	14	16	17	18	19	22	23	26	29	30	31	32		
	33	34	35	39	46	49	52	56	58	65	68	71	75	77	78		
	80	81	83	86	87	90	96	99	104	106							
4:	10*	12*	16*	18*	25	26*	27	28*	36*	40*	45	50*	61	69	75		
	89	91	105	107													
5:	12	15	16	21	28	33	49	69	75	89	91	96					
6:	14*	18*	44*	60*	62*	75											
7:	16	21*	23	26	27	28*	35*	61	62	77*	83						
8:	20*	43															
9:	99																
10:	24*																
12:	81																
13:	75																
14:	42*	56*															
	192 =	81 *	0 #	273 Total													

													Page	28	
Modulus	113,	Period											76		
0:	1	2	3	4	5	6	7	9	10	11	12	13	14	17	18
	19	20	21	25	26	27	28	33	34	35	41	42	49		
1:	3	4	5	6	8	9	10	11	12	13	14	15	18	20	21
	23	24	25	26	27	28	29	30	31	32	33	34	35	36	38
	39	41	42	43	46	47	48	49	50	51	52	53	55	57	59
	60	62	63	65	66	68	69	71	73	74	76	78	79	80	83
	85	91	93	94	96	97	101	102	103	104	109	110			
2:	6	8	9	10	16	18	20	23	24	25	28	29	30	33	35
	37	39	40	45	49	50	53	54	62	70	75	76	81	82	86
	91	92	95	105	107										
3:	13	14	17	22	23	26	32	34	37	39	41	45	49	77	82
	92	93	96	102											
4:	17	18	37	39	48	57	58	59	69	78	80				
5:	37														
6:	29	37													
168 = 0 * 0 # 168 Total															

Modulus	114,	Period											72		
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19*	20*	21*	22*	23	24*	25	26*	27*	28*	29	30*
	31	32*	33*	34*	35	36*	37	38*	39*	41	42*	44*	45*	47	48*
	50*	51*	53	54*	56*	57*	59	60*	62*	63*	65	66*	68*	69*	71
	72*	74*	75*	78*	81*	84*	87*	90*	93*	96*	99*	102*	105*	108*	111*
1:	3	4	5	6	8	9	10	11	12	13	14	15	16	17	18
	19	20	21	22	23	24	26	27	29	31	32	33	34	35	36
	37	38	44	46	53	55	56	58	61	64	67	71	73	80	86
	89	92	98	107	110										
2:	6*	7	8*	9	10*	17	19	21	22*	24*	25	27	28*	29	30*
	32*	33	36*	40*	45	51	52*	54*	55	57	58*	63	85	97	106*
	109														
3:	8	12*	13	15*	16	18*	20	23	24*	26	27*	30*	31	34	39*
	45*	48*	51*	53	54*	57*	60*	65	66*	69*	72*	78*	87*	93*	99*
	102*	105*													
4:	9	14*	15	16*	17	20*	29	34*	38*	47	53	67	71		
5:	12	15	19	21	25	30	49	57	60	88	94	106			
6:	16*	21*	27*	30*	51*	57*	63*	75*	87*	90*	99*				
7:	15	17													
8:	28*	30*	61												
9:	24*	44	45*	48*	69*	78*	81*	93*	102*						
12:	25	27*	45*	60*	87*										
15:	36*	57*	75*	90*											
120 = 127 * 0 # 247 Total															

Modulus	115,	Period	240												
0:	1	2	3	4	5*	6	7	8	9	10*	11	12	13	15*	16
	17	18	20*	21	22	23*	24	25*	26	27	29	30*	31	32	34
	35*	36	39	40*	41	44	45*	48	49	50*	53	54	55*	58	59
	63	64	68	72	73	77	78	82	87	96	101				
1:	3#	8#	13#	18#	23#	28#	33#	38#	43#	48#	53#	58#	73#	83#	88#
	93#	103#	113#												
2:	6#	16#	26#	31#	41#	46#	51#	56#	66#	71#	111#				
3:	29#	34#	39#	49#	79#	84#									
4:	17#	27#	62#	92#	102#										
6:	78#	98#													
7:	31#														
11:	58#														
23:	69#														
	44 =	13 *	44 #	101 Total											

Modulus	116,	Period	42												
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29*	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
	76*	77	78*	79	80*	81	82*	83	84*	85	86*	87*	88*	89	90*
	91	92*	93	94*	95	96*	97	98*	99	100*	101	102*	103	104*	105
	106*	107	108*	109	110*	111	112*	113	114*	115					
1:	4	5	6	7	8	9	10	11	12	13	14	15	17	18	20
	21	22	23	24	25	26	28	30	32	34	35	36	39	42	43
	47	51	52	55	56	59	62	63	64	66	68	70	71	75	76
	78	80	83	84	91	94	95	98	99	102	107	110	111		
2:	5	7	8*	10*	11	12*	13	14*	16*	17	19	20*	21	23	24*
	25	26*	27	33	34*	35	36*	37	40*	41	44*	45	46*	48*	49
	52*	53	55	63	65	69	71	77	79	81	83	85	91	93	95
	99	103	107	111	113										
3:	7	8	10	11	12	13	15	17	18	20	21	22	23	24	27
	29	30	35	42	46	50	54	55	62	65	67	73	79	94	102
	105	109													
4:	9	10*	11	14*	15	16*	19	20*	22*	24*	28*	29	32*	38*	40*
	46*	48*	52*	61	67	68*	71	72*	73	74*	77	80*	82*	88*	90*
	92*	96*	98*	101	104*	106*	109	110*	111						
5:	11	13	16	20	22	34	40	43	48	50	51	52	60	63	76
	79	98													
6:	14*	17	21	23	30*	31	34*	42*	49	73	79	81	89	105	
7:	15	17	31	46	67	79									
8:	17	18*	20*	28*	32*	33	38*	44*	47	48*	61	63	64*	75	76*
	80*	91	92*	96*	104*	105									
9:	26	40													
10:	22*	85													
11:	39	51													
12:	28*	60*	68*	84*											
16:	36*	76*	94*												
20:	44*														
32:	72*														
	240 =	127 *	0 #	367 Total											

Modulus	117,	Period	168												
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13*	14	15*
	16	17	18*	19	21*	22	23	24*	25	26*	28	30*	32	33*	34
	35	36*	37	39*	41	43	44	46	48*	50	52*	55	57*	59	61
	64	66*	68	70	75*	77	79	86	88	97					
1:	3	4	5	7	9	10	11	16	17	22	24	30	33	36	37
	43	46	48	61	63	69	76	85	87	100	111				
2:	6	7	9	14	32	35	66	74	92	105					
3:	9*	12*	15*	21*	27*	33*	48*	51*	66*	90*					
6:	21*	96*													
9:	27*	36*	45*												
	72 =	34 *	0 #	106 Total											

Modulus	118,	Period	174												
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59*	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
	76*	77	78*	79	80*	81	82*	83	84*	85	86*	87	88*	89	90*
	91	92*	93	94*	95	96*	97	98*	99	100*	101	102*	103	104*	105
	106*	107	108*	109	110*	111	112*	113	114*	115	116*	117			
1:	26*	34													
2:	52*	68*	111*												
4:	104*														
	59 =	62 *	2 #	123 Total											

Modulus	119,	Period	144												
0:	1	2	3	4	5	6	7*	8	9	10	11	12	13	14*	15
	16	17*	18	20	21*	22	23	24	25	27	29	30	31	32	34*
	36	37	39	41	42*	43	44	46	48	50	51*	53	55	58	60
	62	65	67	72	74	79	81	86	93	100					
1:	3	4	6	7	9	11	12	14	20	24	26	29	31	32	41
	43	46	48	49	54	60	75	77	80	82	92	94	99		
2:	5	11	12	14	22	24	28	57	58	62	65	86	91		
3:	10	42	52	112											
4:	41														
5:	15	28													
7:	21*	28*	49*	63*											
	96 =	11 *	0 #	107 Total											

														Page	31
Modulus	120, Period 120														
0:	1	2*	3*	4*	5*	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	22*	23	24*	25*	26*	27*	28*	29	30*	31
	32*	33*	34*	35*	37	38*	39*	40*	43	45*	46*	49	52*	55*	57*
	58*	60*	61	64*	66*	67	69*	70*	73	76*	78*	79	90*	99*	
1:	3#	4	5	6	7	8#	10	11	12	13#	14	15	17	18#	19
	23#	27	29	30	31	32	33#	34	35	37	38#	39	41	43#	45
	46	48#	51	53#	54	55	58#	59	61	63#	65	66	67	69	73#
	75	78#	79	80	83#	85	87	88#	91	93#	94	98#	99	102	103#
	107	111	113#	115	118#										
2:	5	6*	9	10*	11#	12*	14*	16*	21#	26*	29	30*	34*	36*	38*
	46*	51#	61#	66*	68*	76*	77	81#	86*	91#	101#	102*	111#	116*	
3:	9*	12*	14#	15*	18*	24*	33*	34#	39*	42*	49#	54*	57*	64#	69*
	81*	99*	105*	114*											
4:	12*	17#	27#	32*	42*	52*	57#	77#	97#	102*					
5:	15*	20*	25*	30*	35*	40*	55*	60*	75*	85*	95*				
6:	13#	18*	23#	28*	33*	43#	48*	63*	73#	108*					
7:	16#	46#	61#	66#	81#	96#	106#	111#							
8:	19#	24*	29#	64*	79#	84*	99#	104*							
9:	22#	27*	42*	72*	102*										
10:	25*	30*	50*												
11:	23#	28#	38#	48#	53#	63#									
12:	26*	31#	36*	46*	51*	61#									
13:	79#														
14:	92*														
15:	45*	60*													
16:	38*	48*													
18:	84*	99*													
24:	72*														
33:	69*														
	64 =		121 *			64 #				249 Total					

Modulus	121, Period 110														
0:	1	2	3	4	5	6	7	8	9	10	11*	12	13	14	15
	16	17	18	19	20	21	22*	23	24	25	26	27	28	29	30
	31	32	33*	34	35	36	37	38	39	40	41	42	43	44*	45
	46	47	48	49	50	51	52	53	54	55*	56	57	58	59	60
	61	62	63	64	65	66*	67	68	69	70	71	72	73	74	75
	76	77*	78	79	80	81	82	83	84	85	86	87	88*	89	90
	91	92	93	94	95	96	97	98	99*	100	101	102	103	104	105
	106	107	108	109	110*	111	112	113	114	115	116	117	118	119	120
1:	4	8	15	19	26	30	37#	41	52	63	74	81	85	92	96
	107	118													
2:	8	30	41	52	63	74#									
11:	44*	88*													
22:	88*														
	131 =		13 *			2 #				146 Total					

147

															Page	32
Modulus	122,	Period													60	
0:	1	2*	3	4*	5	6*	7	8*	9	10*	13	14*	15	16*	17	
	18*	19	20*	25	26*	27	28*	29	30*	37	38*	39	40*	49	50*	
	61*															
1:	3	4	5	6	7	8	9	10	12	14	15	16	17	18	19	
	20	21	22	23	24	25	27	28	29	30	31	33	34	35	36	
	37	38	39	41	42	43	44	47	48	49	50	51	52	53	54	
	56	59	60	61	65	66	67	68	69	70	71	72	73	74	76	
	78	79	80	82	84	85	87	88	89	90	91	92	94	95	96	
	98	100	101	102	103	105	108	109	110	114	115	117	119			
2:	6*	8*	10*	12*	16*	17	18*	19	20*	24*	25	28*	29	30*	31	
	33	34*	35	36*	37	38*	40*	41	42*	45	46*	47	53	54*	56*	
	58*	59	61	62*	66*	67	68*	70*	74*	76*	77	78*	79	82*	83	
	87	88*	89	91	94*	98*	99	105	106*	107	108*	112*				
3:	9	13	15	18	21	24	26	31	32	36	37	40	41	48	50	
	55	56	57	69	74	75	76	82	84	85	88	93	94	99	101	
	107															
4:	12*	20*	21	23	32*	34*	36*	45	50*	57	61	90*	92*	94*	103	
	105															
5:	15	18	29	31	34	47	76	92	93	98	109					
6:	18*	26*	29	30*	41	64*	99									
7:	31	32	50	97	98											
9:	27	49														
10:	30*															
	186 =	63 *	0 #	249 Total												

Modulus	123,	Period													40
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19	20	21*	22	23	24*	25	26	27*	28	29	30*
	31	32	33*	34	35	36*	37	38	39*	40	41*	42*	43	44	45*
	46	47	48*	49	50	51*	52	53	54*	55	56	57*	58	59	60*
	61														
1:	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19
	20	21	22	23	25	26	27	28	29	31	32	33	34	35	36
	37	38	39	40	41	42	44	45	46	47	48	49	51	52	53
	54	55	56	57	59	60	64	65	66	67	68	69	70	71	72
	74	76	77	78	80	81	82	83	85	86	87	88	89	90	91
	92	93	95	96	97	101	102	103	104	105	106	108	109	110	111
	112	114	115	116	117	118	119	120							
2:	7	8	9	10	11	12	13	16	17	18	19	20	21	22	23
	24	25	26	29	30	31	32	33	36	37	38	42	47	49	50
	51	54	55	57	58	59	62	63	66	67	68	70	71	73	74
	76	78	83	87	88	89	90	92	93	94	95	96	98	99	101
	104	105	106	107	108	109	112	113	114	115	117	118			
3:	10	11	12*	13	14	15*	18*	19	21*	22	24*	26	28	30*	31
	32	33*	35	37	42*	43	49	50	53	57*	58	62	64	68	69*
	73	76	77	78*	83	84*	89	91	92	94	95	98	99*	100	104
	105*	107	108*	111*	112	113	115								
4:	14	17	18	19	20	23	25	29	32	33	34	36	42	43	46
	50	51	52	57	75	76	84	85	91	93	94	95	98	100	102
	107	108	110	113											
5:	18	29	30	31	34	36	40	41	42	45	52	53	56	72	75
	76	77	83	86	87	88	94	97	98	99	110				

Modulus 123 (continued)

6:	23	24*	26	28	30*	31	48*	62	66*	67	75*	98	99*	101	103
	106														
7:	28	48	63	67	82	102									
8:	27	39	40	47	50	81	84	85	91	104					
9:	49	83													
11:	45	89													
	336 =	43 *			0 #										379 Total

Modulus 124, Period 30

0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31*	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
	76*	77	78*	79	80*	81	82*	83	84*	85	86*	87	88*	89	90*
	91	92*	93*	94*	95	96*	97	98*	99	100*	101	102*	103	104*	105
	106*	107	108*	109	110*	111	112*	113	114*	115	116*	117	118*	119	120*
	121	122*	123												
1:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	19	20	21	22	25	26	27	29	30	31	32	33	34	35	36
	38	39	40	42	44	45	46	47	48	50	51	52	53	54	56
	57	59	61	62	63	65	66	68	69	70	71	72	73	74	75
	80	81	83	85	87	89	90	91	92	93	94	95	96	98	99
	100	103	104	105	106	107	109	111	113	114	115	116	118	119	120
	121														
2:	5	7	8*	9	11	12*	14*	16*	18*	20*	21	22*	23	24*	25
	26*	27	29	30*	33	36*	38*	39	41	42*	43	45	49	50*	54*
	55	57	58*	59	60*	62*	64*	67	68*	69	71	72*	73	75	76*
	81	83	84*	85	87	88*	89	91	92*	93	94*	97	99	100*	101
	102*	103	104*	105	106*	108*	112*	113	114*	117	118*	119	121		
3:	7	8	11	12	13	14	15	17	18	19	20	21	22	25	26
	27	28	29	35	36	38	39	42	44	47	49	53	54	55	57
	60	63	64	66	71	74	78	79	80	83	85	89	90	91	92
	94	96	97	99	100	102	105	106	108	109	112	114	115	116	119
	120														
4:	9	10*	11	14*	17	18*	19	21	25	27	35	42*	46*	49	50*
	51	52*	54*	57	58*	67	71	76*	77	78*	79	82*	85	86*	103
	110*	113	114*	117	119										
5:	11	12	13	17	18	19	20	25	26	31	32	34	35	43	44
	50	51	53	54	55	57	63	66	69	74	76	78	79	82	84
	86	88	93	95	98	99	100	104	109	111	112	117	118		
6:	13	21	24*	33	34*	36*	42*	52*	53	58*	63	69	70*	81	83
	88*	89	94*	95	99	103	106*	108*	114*						
7:	19	20	24	30	32	33	41	44	45	48	50	54	66	68	70
	83	91	112	116											
8:	18*	34*	51	69	89	102*	109	111	114*						
9:	25	35	39	43	51	67	68	74	75	98	112	113			
10:	27	40*	43	52*	88*	89	100*	101							
11:	24	46	50	73	86	90	96	111							

Modulus 124 (continued)

12: 42* 91 104* 109
 13: 99 106
 14: 47 65 108*
 15: 37 78 98
 17: 71
 384 = 135 * 0 # 519 Total

Modulus 125, Period 500

0: 1 2 3 4 5* 6 7 8 9 10* 12 14 15* 16 17
 18 19 21 23 25* 27 28 30* 32 34 36 38 43 45* 47
 56
 1: 3# 8# 13# 18# 23# 28# 33# 43# 48# 53# 58#
 2: 6# 11# 16# 21# 31# 36# 41# 46# 56#
 3: 9# 19# 34# 44# 59#
 5: 15* 40* 65*
 10: 30*
 15: 45*
 25: 75*
 25 = 12 * 25 # 62 Total

Modulus 126, Period 48

0: 1 2* 3* 4* 5 6* 7* 8* 9* 10* 11 12* 13 14* 15*
 16* 17 18* 19 20* 21* 22* 24* 25 26* 27* 28* 29 31 32*
 33* 34* 35* 36* 38* 40* 41 42* 43 45* 47 48* 49* 50* 52*
 54* 56* 57* 59 61 63* 64* 66* 68* 71 73 75* 80* 82* 87*
 89 96* 103
 1: 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
 18 19 22 23 24 25 27 28 30 31 34 35 36 37 39
 40 41 43 45 46 47 48 49 51 53 57 58 59 60 61
 63 66 67 69 70 71 72 76 77 78 79 81 82 83 84
 85 87 88 89 91 93 94 95 97 99 100 101 102 103 108
 109 111 112 114 115 117 120 121 123 124
 2: 5 6* 7 8* 9 10* 11 12* 14* 15 16* 18* 22* 23 25
 26* 28* 29 30* 31 32* 34* 36* 38* 39 43 48* 49 50* 51
 56* 60* 61 63 68* 71 72* 74* 77 78* 80* 81 89 90* 91
 92* 93 96* 97 98* 99 102* 103 105 113 114* 116* 117 119 120*
 122* 123
 3: 7 9* 10 11 12* 15* 17 18* 19 21* 27* 28 29 31 33*
 35 38 39* 43 45* 46 48* 50 51* 54* 56 57* 59 64 65
 71 80 86 91 92 94 97 98 100 101 103 104 112 116 119
 122
 4: 10* 13 14* 16* 18* 19 21 28* 30* 31 33 36* 37 41 52*
 58* 60* 63 65 67 72* 75 78* 97 100* 102* 109 111 112* 117
 120*
 5: 11 12 16 46 53 54 58 64 66 77 78 83 95 96 107
 119 120
 6: 13 15* 18* 24* 27* 30* 34* 36* 37 42* 53 54* 65 66* 67
 70* 76* 78* 79 87* 90* 96* 101 102* 108* 109 112* 114* 117* 118*
 7: 28* 35* 49* 57 63* 82 84* 91*
 8: 29 33 69 83 101 111

200

Modulus 126 (continued)

9: 51* 107
 11: 26
 12: 30* 48* 54* 108*
 13: 29
 18: 102*
 216 = 141 * 0 # 357 Total

Modulus 127, Period 256

0: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45
 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
 61 62 63
 63 = 0 * 0 # 63 Total

Modulus 128, Period 192

0: 1 2* 3 4* 5 6* 7 8* 9 10* 11 12* 13 14* 15
 16* 17 18* 19 20* 21 22* 23 24* 25 26* 27 28* 29 30*
 31 32* 33 34* 35 36* 37 38* 39 40* 41 42* 43 44* 45
 46* 47 48* 49 50* 51 52* 53 54* 55 56* 57 58* 59 60*
 61 62* 63 64* 96*
 1: 3 4 5 6 11 12 13 14 19 20 21 22 27 28 29
 35 36 43 45 51 52 53 54 59 67 75 83 91 99 107
 115 123
 2: 6* 8* 10* 12* 22* 24* 26* 38* 40* 44* 54* 58* 70* 86* 102*
 118*
 4: 12* 16* 20* 24* 44* 52* 76* 108*
 8: 24* 32* 40* 88*
 16: 48* 64*
 64 = 63 * 0 # 127 Total

Modulus 129, Period 88

0: 1 2 3* 4 5 6* 7 8 9* 10 11 12* 13 14 15*
 16 17 18* 19 20 21* 22 23 24* 25 26 27* 28 29 30*
 31 32 33* 34 35 36* 37 38 39* 40 41 42* 43* 44 45*
 46 47 48* 49 50 51* 52 53 54* 55 56 57* 58 59 60*
 61 62 63* 64
 1: 4 5 6 7 8 9 10 12 14 15 16 17 18 19 21
 23 24 26 27 28 29 30 31 33 35 36 38 39 40 41
 42 43 44 46 58 57 59 60 61 67 69 70 73 74 76
 77 83 84 85 86 87 89 92 93 94 95 99 100 101 102
 103 104 108 112 113 115 116 118 120 121 124 126
 2: 9 10 13 16 17 19 24 25 28 32 36 38 39 49 52
 53 56 60 61 62 69 70 71 75 79 82 87 92 95 103
 107 112 114 122
 3: 10 19 22 23 52 61 65 67 71 80 109 110 113 122
 4: 13 38 95 120
 6: 31 104
 168 = 22 * 0 # 190 Total

Modulus	136,	Period 36													
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17*	18*	21	22*	24*	25	26*	28*	29	30*	33	34*	35	36*
	37	39	41	43	45	47	48*	49	51*	55	59	63	67	68*	70*
	71	74*	75	78*	79	82*	83	86*	90*	94*	98*	102*	105	109	113
	117														
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	35	36	37	38	39	40	41	42	43	44	45	48	49	50	51
	52	53	55	57	58	59	60	61	62	64	65	66	67	68	69
	71	72	73	75	76	77	78	79	82	83	84	85	86	87	88
	89	91	93	94	95	96	98	99	101	105	106	107	109	110	111
	112	113	115	117	119	121	122	123	124	126	127	128	129	130	132
	133	134													
2:	5	6*	7	8*	9	10*	12*	13	14*	16*	18*	20*	21	22*	24*
	25	27	28*	29	30*	31	32*	33	34*	35	38*	40*	41	42*	43
	45	46*	47	48*	49	50*	51	52*	53	54*	56*	57	58*	59	60*
	61	62*	64*	65	69	73	75	76*	77	78*	79	81	82*	86*	89
	91	95	100*	102*	106*	107	110*	111	113	116*	117	119	120*	121	124*
	125	127	128*	129	130*	132*	133								
3:	7	8	9	10	11	12	14	15	16	17	19	21	22	23	24
	26	27	28	29	30	31	33	36	38	39	42	43	45	46	47
	48	51	54	56	57	58	59	64	65	68	71	72	75	78	81
	83	84	85	90	91	92	94	96	97	105	106	108	109	110	112
	113	115	116	118	122	124	127	128	129	130	131	132			
4:	9	10*	11	12*	13	14*	15	16*	18*	19	20*	21	23	24*	26*
	28*	32*	33	36*	37	41	42*	44*	49	54*	55	56*	57	58*	63
	64*	68*	69	73	79	80*	85	86*	90*	95	98*	100*	102*	104*	106*
	111	112*	114*	118*	119	120*	121	122*	124*	127	129	130*	131		
5:	11	12	15	16	19	22	24	27	30	32	35	38	40	44	46
	47	51	54	56	62	68	70	72	74	75	84	87	95	100	103
	104	108	122												
6:	13	14*	15	17	19	20*	21	32*	34*	35	38*	39	41	44*	46*
	48*	56*	58*	61	76*	81	84*	85	89	90*	93	96*	105	109	112*
	118*	127	129												
7:	15	20	21	25	27	32	44	46	52	58	68	71	72	75	77
	91	103	109	122	128										
8:	22*	24*	28*	32*	36*	56*	59	72*	75	91	107	108*	126*		
9:	20	30	32	33	37	45	52	55	56	76	90	93	94	98	100
	113	115													
10:	32*	35	47	51	92*	108*									
11:	52	80	83	120											
12:	29	34*	42*												
13:	29	46	51	98	117										
14:	53	81													
17:	51*	68*													
20:	95														
384 =		135 *		0 #		519 Total									

4

															Page	39
Modulus	137,				Period				276							
0:	1	2	3	4	5	6	7	8	9	10	12	13	14	16	17	
	18	20	21	23	24	25	27	28	31	32	35	36	39	42	43	
	46	50	54	61												
1:	3	6	7	8	9	10	12	18	17	18	19	23	25	30	38	
	40	43	44	51	55	57	60	64	66	69						
2:	6	12	18	34	36											
3:	16	20	24	27												
	68 =		0 *		0 #	68 Total										

															Page	39
Modulus	138,				Period				48							
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	15*	
	16*	17	18*	19	20*	21*	22*	23*	24*	25	27*	28*	30*	31	33*	
	34*	36*	37	39*	40*	42*	43	45*	46*	47	48*	50*	51*	53	54*	
	56*	57*	59	60*	62*	63*	65	66*	68*	69*	71	74*	77	80*	83	
	86*	89	94*	97	100*	103	106*	109	112*							
1:	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	
	19	20	21	22	23	24	25	26	28	29	30	31	33	34	35	
	37	38	39	41	43	44	45	46	48	50	51	52	53	54	55	
	56	57	58	60	61	62	64	65	66	68	69	70	72	73	74	
	75	76	77	78	79	80	81	82	83	84	85	86	88	89	91	
	93	94	96	97	99	100	101	102	103	104	106	108	113	114	115	
	117	118	119	120	121	123	124	125	127	130	131	132	134	135		
2:	5	6*	7	8*	9	10*	12*	13	14*	18*	21	22*	24*	26*	28*	
	30*	32*	33	34*	35	38*	39	40*	41	43	44*	47	48*	50*	53	
	57	58*	60*	61	62*	63	66*	69	70*	71	74*	77	78*	79	83	
	87	88*	90*	92*	96*	97	99	100*	101	102*	103	104*	107	108*	109	
	110*	112*	113	115	116*	122*	123	129	130*	131	132*	133	135			
3:	8	11	12*	15*	16	17	19	20	21*	24*	27*	29	32	33*	34	
	35	36*	38	42*	43	46	49	52	56	59	61	65	66*	67	69*	
	73	76	78*	79	80	83	84*	87*	92	93*	95	99*	103	104	105*	
	106	107	112	114*	121	122	128	129*	130	131	133	134				
4:	9	16*	18*	21	25	31	36*	42*	45	51	57	60*	64*	65	66*	
	69	73	78*	82*	85	88*	94*	106*	111	114*	115	121	122*	124*	126*	
	133															
5:	11	15	16	20	21	23	32	34	38	47	48	51	55	58	59	
	63	74	84	92	95	101	103	105	115	120	124	132				
6:	17	21*	40*	58*	70*	77	123*									
7:	15	21	23	25	26	27	32	62	73	106	109	120	129	130		
8:	32*	50*	90*	114*	119	128*										
9:	25	26	33*	77	102*											
10:	30*	32*	93	110*	113											
13:	33															
	264 =		135 *		0 #	399 Total										

														Page	42	
Modulus	141	(continued)														
7:	15	21	22	23	27	30	34	35	37	45	52	54	56	59	62	
	71	74	77	79	80	93	94	95	98	100	103	107	114	118	121	
	133															
8:	21	23	25	26	27	34	37	50	61	62	63	64	73	75	79	
	95	110	112	115	120	121	124	129								
9:	19	20	22	25	29	45*	47	50	54*	57*	79	93*	96*	105*	121	
	124	131														
10:	25	28	31	32	39	44	54	55	57	85	94	98	112	113	123	
	126															
11:	30	34	45	49	56	73	95	96	114	115	129					
12:	35	97														
13:	31	52	60	72	82	111	117	118								
14:	47	73	101													
16:	74															
17:	42															
19:	79															
	552 =	70 *	0 #	622 Total												

Modulus	142,	Period 210													
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71*	72*	73	74*	75
	76*	77	78*	79	80*	81	82*	83	84*	85	86*	87	88*	89	90*
	91	92*	93	94*	95	96*	97	98*	99	100*	101	102*	103	104*	105
	106*	107	108*	109	110*	111	112*	113	114*	115	116*	117	118*	119	120*
	121	122*	123	124*	125	126*	127	128*	129	130*	131	132*	133	134*	135
	136*	137	138*	139	140*	141									
1:	9#	63													
2:	18*	126*													
7:	63#														
14:	126*														
	71 =	74 *	2 #	147 Total											

Modulus	143,	Period 140													
0:	1	2	3	4	5	6	7	8	9	10	11*	13*	14	15	16
	17	18	19	20	21	22*	23	26*	27	28	29	30	31	32	34
	35	39*	40	41	42	43	44*	45	46	47	52*	53	54	56	57
	58	59	65*	67	68	69	70	71	78*	79	80	81	82	83	91*
	92	93	94	95	104*	105	106	107	117*	118	119	130*	131		
1:	3	4	5	7	8	9	10	11	15	16	17	20	22	23	24
	30	33	35	36	37	41	42	48	49	50	52	61	63	72	74
	75	76	85	87	98	113	124	125							
2:	6	7	8	18	19	20	22	30	33	34	40	44	48	59	60
	70	72	82	83	84	93	98	105	107						
3:	7	23	28	40	41	48	51	61	64	73	74				

Modulus 143 (continued)
 4: 15 23 25 33 43 67 80 120
 6: 13 47 73
 11: 33* 44* 55*
 13: 52* 104*
 26: 104*
 144 = 19 * 0 # 163 Total

Modulus 144, Period 24

0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	14*	15*	16*
	17	18*	19	20*	21*	22*	23	24*	25	27*	28*	29	30*	32*	33*
	35	36*	37	38*	40*	41	42*	43	45*	46*	48*	50*	51*	53	54*
	55	56*	58*	59	61	63*	64*	66*	69*	71	72*	74*	76*	77	79
	82*	84*	87*	92*	95	97	100*	105*	108*	110*	113	118*	131		
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	48	49	50	51	52	53	54	55	56	58	59	60	61	62	63
	64	65	66	67	69	70	71	72	73	75	76	78	79	80	81
	82	83	84	85	86	87	89	91	92	93	94	95	96	97	98
	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113
	114	115	119	120	121	122	123	124	126	127	128	129	130	131	132
	133	134	135	136	137	138	139	140	141	142					
2:	5	6*	7	8*	9	10*	11	12*	13	14*	15	16*	17	18*	19
	22*	23	24*	25	26*	27	28*	29	30*	31	33	34*	35	37	38*
	40*	41	42*	43	44*	45	46*	48*	49	50*	52*	53	54*	55	56*
	57	58*	60*	62*	63	64*	65	66*	67	68*	69	70*	72*	73	74*
	77	78*	79	80*	81	82*	83	84*	85	86*	94*	96*	97	98*	100*
	101	102*	104*	105	107	108*	109	110*	112*	113	115	116*	117	118*	119
	120*	121	122*	123	124*	126*	127	128*	130*	131	132*	133	134*	135	137
	138*	139	140*	141											
3:	7	8	9*	10	11	12*	13	14	15*	17	18*	19	20	21*	22
	23	24*	25	26	28	29	30*	32	33*	35	36*	38	40	41	42*
	44	45*	47	48*	50	51*	52	54*	55	57*	58	59	60*	62	63*
	64	65	66*	67	68	69*	70	72*	73	74	75*	76	79	80	81*
	82	83	84*	88	90*	91	93*	96*	97	99*	102*	103	104	105*	106
	107	108*	110	111*	112	113	117*	118	119	122	123*	124	125	127	128
	129*	130	131	133	134	136	137	139	140						
4:	9	10*	11	12*	13	14*	16*	17	18*	19	20*	21	22*	24*	26*
	28*	33	35	36*	37	39	41	43	44*	45	47	48*	49	50*	52*
	55	57	58*	59	60*	61	65	66*	67	68*	69	74*	76*	77	81
	82*	83	86*	90*	91	92*	97	98*	99	100*	101	103	104*	105	106*
	107	108*	109	110*	111	115	116*	117	120*	125	126*	129	130*	131	133
	134*	135	136*	137	138*	139									
5:	11	12	13	14	16	17	19	20	21	22	23	24	25	27	28
	30	32	35	36	38	40	41	43	47	48	49	50	53	54	57
	58	60	61	64	67	72	74	75	77	78	79	83	85	88	90
	91	92	96	99	101	102	106	107	109	110	111	112	115	117	121
	122	125	126	127	129	132	133	135	136	137	138				
6:	15*	16*	18*	20*	22*	23	24*	25	27*	29	30*	35	36*	38*	42*
	46*	47	48*	49	50*	51*	53	56*	59	61	64*	66*	72*	73	75*
	76*	77	79	80*	90*	91	100*	101	102*	107	109	110*	111*	114*	116*
	118*	119	121	124*	127	128*	130*	131	134*	136*	137				

Modulus 144 (continued)

7:	15	16	19	21	22	23	24	26	28	31	33	36	38	39	42
	43	46	48	49	51	52	53	57	60	62	63	64	74	76	77
	79	80	81	87	88	91	94	97	103	105	108	110	115	117	120
	125	128	131	132	134	135	136								
8:	17	18*	19	20*	22*	23	27	28*	32*	33	35	36*	38*	40*	41
	52*	56*	65	66*	72*	74*	75	77	78*	79	90*	96*	99	104*	114*
	116*	125	127	130*	132*	133	134*								
9:	21*	23	27*	30*	33*	36*	41	45*	46	51*	52	55	64	65	66*
	76*	79	95	96*	97	99*	100	105*	106	107	113	116	119	120*	133
	134														
10:	21	22*	25	26*	27	31	33	38*	40*	54*	55	56*	59	60*	65
	73	76*	77	80*	86*	93	95	107	108*	109	114*	115	122*	125	128*
	129														
11:	25	28	32	33	46	50	54	59	72	74	75	83	87	88	97
	99	101	108	115	116	121	122	130	131						
12:	30*	36*	39*	44*	57*	58*	60*	61	63*	76*	85	98*	99*	105*	118*
	125	126*													
14:	30*	31	32*	35	37	59	62*	63	73	85	86*	105	113	120*	121
	124*	126*	128*												
15:	35	43	44	48*	52	56	57*	61	76	92	103	110			
16:	33	36*	83	125	127										
17:	52	54	91	92	126										
18:	53	54*	72*												
19:	72	95													
20:	45	51	52*	117											
21:	53	91	100	117*											
22:	100*														
23:	51	56	99												
25:	55														

576 = 293 * 0 # 869 Total

Modulus 145, Period 140

0:	1	2	3	4	5*	6	7	8	9	10*	11	12	13	14	15*
	16	17	18	19	20*	21	22	23	24	25*	26	27	28	29*	30*
	31	33	34	35*	36	38	39	40*	41	43	44	45*	46	48	49
	50*	51	53	54	55*	56	60*	61	63	65*	66	68	70*	71	73
	75*	76	78	80*	81	83	85*	86	88	90*	93	95*	98	100*	103
	105*	108	110*	113	115*	120*	125*	130*	135*	140*					
1:	3#	4	5	6	7	8#	10	12	13#	17	18#	20	22	23#	24
	26	28#	33#	34	36	37	38#	39	41	42	43#	46	47	48#	49
	51	52	53#	58#	63#	64	66	68#	71	73#	76	78#	81	83#	84
	91	93#	108#	113#	118#	123#	128#	133#	138#	143#					
2:	5	6#	7	8	11#	12	16#	19	20	21#	23	24	26#	31#	34
	36#	37	40	41#	45	46#	49	51#	52	55	56#	66#	69	71#	74
	81#	82	84	91#	94	99	106#	111#	121#	136#	141#				
3:	7	9#	15	17	19#	21	22	24#	29#	44#	49#	50	64#	65	69#
	74#	79#	84#	94#	99#	102	104#	109#	114#	124#	139#				
4:	9	12#	19	37#	42#	47#	48	67#	77#	82#	92#	112#	127#	137#	
5:	11	20*	25*	30*	35*	40*	50*	60*	65*	85*	90*	98	100*	110*	115*
	120*	130*													
6:	18#	23#	43#	48#	63#	73#	128#	133#	138#						
7:	16#	21#	31#	36#	46#	61#	76#	96#	121#	126#	131#	136#			

Modulus 145 (continued)

8:	18	19#	39#	74#	79#	134#									
9:	22#	27#	47#	52#	77#	107#									
10:	25*	35*	40*	55*	60*	80*	95*	100*	115*	120*	130*				
11:	33#	58#	88#												
12:	36#	86#	121#	126#											
13:	99#														
14:	122#														
15:	35*	75*	85*	105*											
17:	36#														
18:	54#	94#													
20:	45*	95*													
21:	73#														
25:	55*														
29:	87*														
40:	90*														

120 = 64 * 120 # 304 Total

Modulus 146, Period 444

0:	1	2*	3	4*	5	6*	7	8*	9	10*	12*	13	14*	15	17
	18*	19	20*	23	24*	25	26*	29	30*	31	34*	35	36*	40*	41
	45	46*	51	52*	57	62*	73*								
1:	3	4	6	12	15	16	17	18	20	24	30	32	34	37	
2:	6*	8*	11	12*	15	21	24*	30*	32*	34*	36*	40*	48*	60*	64*
	68*	74*													
3:	20														
4:	22*	24*	30*												
6:	40*														

36 = 37 * 0 # 73 Total

Modulus 147, Period 112

0:	1	2	3*	4	5	6*	7*	8	9*	10	11	12*	13	14*	15*
	16	17	18*	19	20	21*	22	23	24*	25	27*	28*	30*	31	3*
	34	36*	37	39*	40	42*	43	45*	46	48*	49*	50	51*	53	54*
	56*	57*	59	60*	62	63*	65	66*	68	69*	71	72*	74	77*	80
	83	86	89	92	95	100	103	106	109	112*	115	118	121		
1:	3	4	5	6	7	8	9	11	13	14	15	16	17	18	19
	24	26	27	28	29	30	34	35	36	37	38	40	45	47	48
	49	51	55	57	58	59	61	66	68	69	70	72	78	79	80
	82	87	89	91	92	93	97	99	100	101	103	108	110	112	114
	119	120	121	122	124	129	131	133	135	141	142	143	145		
2:	5	7	8	9	11	12	14	16	18	26	30	32	33	35	37
	39	47	51	53	56	60	68	70	72	74	79	81	91	93	96
	98	102	114	116	119	123	135	137	140	144					
3:	7	17	38	49	59	70	80	91	101	112	122	133	143		
7:	21*	28*	35*	42*	49*	63*	77*	91*	105*	112*	119*	126*	133*		
14:	35*	56*	63*	126*											
21:	119*														

168 = 49 * 0 # 217 Total

Modulus	148,												Period	228																																											
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	15	16*	17	18*	19	20*	21	22*	23	25	26*	27	29	30*	31	32*	33	35	36*	37*	40*	46*	50*	60*	74*	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	105	107	109	111*
1:	3	5	6	8	10	11	12	15	16	19	28	32	40	43	47	48	52	59	63	67	79	114	122	126																																	
2:	6*	7	10*	12*	15	19	20*	22*	24*	30*	49	53	57	61	69																																										
3:	16	25	47																																																						
4:	12*	14*	20*	24*	38*	40*	44*	48*	60*																																																
5:	67																																																								
8:	28*	76*																																																							
	72 =		39 *		0 #		111 Total																																																		

Modulus	149,												Period	148																																																												
0:	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	18	19	21	22	23	25	26	28	29	32	33	35	36	39	42	43	46	49	52	56	59	66																																					
1:	3	4	7	8	9	10	11	12	14	15	16	17	19	20	21	22	23	25	27	28	29	32	33	35	39	40	41	42	43	45	47	48	50	51	53	54	56	57	58	60	62	64	65	67	68	69	70	71	72	75	77	81	84	85	86	88	89	93	94	95	100	103	109	113	116	117	123	127	128	131	134	138	142	143
2:	7	11	14	17	19	28	29	31	38	39	40	43	45	51	57	58	61	66	71	85	94	100	112	113	137																																																	
3:	11	14	26	31	32	37	63	115	141																																																																	
4:	34	63	67																																																																							
5:	51	63																																																																								
	150 =		0 *		0 #		150 Total																																																																			

Modulus	150,												Period	600																																																	
0:	1	2*	3*	4*	5*	6*	7	8*	9*	10*	11	12*	13	14*	15*	16*	17	18*	19	20*	22*	23	25*	26*	27*	28*	29	30*	31	32*	33*	34*	35*	36*	37	38*	40*	41	43	44*	46*	47	49	50*	51*	53	54*	56*	59	62*	65*	68*	71	74*	75*	77	80*	83	86*	89	92*	95*	98*
1:	3#	8#	13#	18#	23#	28#	38#	43#	63#																																																						
2:	6*	16*	21#	26*	31#	36*	46*	51#	56*	71#	76*	86*	111#	126*																																																	
3:	9*	19#	24*	39*																																																											
4:	12*	17#	27#	62*	72*	87#	102*	112*																																																							
5:	15*	40*	65*																																																												
6:	13#	18*	38*	48*	63*	78*																																																									
8:	24*	34*	54*	129#																																																											
9:	27*																																																														
10:	30*	80*	105*	130*																																																											
12:	26*	36*																																																													
15:	45*																																																														
16:	108*																																																														
18:	54*																																																														
20:	60*																																																														
30:	90*																																																														
	20 =		81 *		20 #		123 Total																																																								

	Page 48														
Modulus	152,	Period											36		
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19*	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57*	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
	76*	78*	80*	82*	84*	86*	88*	90*	92*	94*	96*	98*	100*	102*	104*
	106*	108*	110*	112*	114*	116*	118*	120*	122*	124*	126*	128*	130*	132*	134*
	136*	138*	140*	142*	144*	146*	148*	150*							
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	19	20	21	22	23	24	26	27	28	29	30	31	33	34
	35	36	37	38	39	40	41	42	43	44	45	46	47	48	51
	52	53	54	55	56	57	58	59	60	61	62	63	64	65	67
	69	70	71	72	73	75	76	80	81	82	83	84	85	86	88
	89	90	91	92	94	95	96	97	98	99	102	104	105	107	109
	110	111	112	113	115	117	118	119	120	122	124	126	127	129	130
	131	132	133	134	135	136	137	139	140	141	143	145	146	147	148
	149	150													
2:	5	7	8*	9	10*	11	12*	13	14*	16*	17	18*	19	20*	21
	22*	23	24*	25	26*	27	28*	29	30*	31	32*	33	34*	36*	37
	38*	40*	42*	44*	45	46*	47	48*	51	52*	53	55	56*	57	58*
	59	61	62*	63	65	66*	67	68*	70*	71	72*	73	74*	76*	78*
	82*	84*	86*	88*	92*	96*	102*	106*	108*	110*	112*	114*	116*	118*	120*
	122*	126*	128*	130*	134*	138*	140*	142*	144*	146*					
3:	7	8	9	11	13	14	15	16	17	18	19	20	21	22	23
	24	26	27	28	31	32	33	34	35	36	39	42	47	48	50
	52	53	54	56	57	58	60	61	62	64	67	68	69	71	72
	73	76	78	83	86	87	88	89	90	91	92	93	94	95	97
	98	99	102	104	105	107	108	109	111	112	115	118	123	124	126
	129	130	131	132	133	134	136	137	138	140	142	144	145	146	
4:	9	10*	14*	15	16*	17	18*	19	20*	22*	24*	26*	29	32*	33
	34*	35	36*	38*	40*	42*	43	45	46*	47	50*	51	52*	53	54*
	55	58*	60*	61	62*	64*	66*	67	68*	69	72*	76*	80*	88*	90*
	92*	94*	96*	102*	104*	106*	110*	114*	116*	118*	122*	124*	126*	130*	132*
	134*	136*	140*	142*	146*										
5:	11	12	13	15	17	18	19	21	22	24	25	29	30	31	33
	34	38	40	41	42	43	45	49	50	51	52	53	56	57	60
	61	62	63	67	68	70	71	76	78	80	87	88	94	95	97
	101	105	106	107	110	116	117	118	126	127	128	129	132	133	135
	136	138	139	142	143	144	146								
6:	13	14*	15	16*	17	19	21	22*	26*	28*	30*	31	32*	33	34*
	36*	37	39*	42*	44*	46*	52*	54*	56*	57	62*	63	64*	65	66*
	67	68*	69	70*	72*	78*	84*	94*	96*	100*	106*	108*	112*	114*	116*
	120*	122*	124*	128*	136*	138*									
7:	16	17	18	19	20	22	24	26	28	29	38	39	41	43	52
	55	56	59	60	67	71	80	92	93	94	95	96	100	102	104
	115	116	122	124	131	132	135	137	142	143					
8:	18*	23	28*	30*	34*	36*	38*	39	40*	43	45	55	58*	61	65
	66*	68*	76*	84*	86*	94*	100*	102*	106*	110*	116*	120*	122*	132*	134*
	138*														
9:	19	22	27	32	39	41	48	49	51	60	69	82	95	108	124
	127	133	134	139											
10:	22*	24*	31	34*	36*	37	38*	42*	49	50*	57	58*	60*	62*	68*
	80*	82*	84*	100*	102*	104*	106*	112*	114*	120*	124*	126*	134*	136*	140*

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Modulus 152 (continued)

11:	28	31	39	63	78	82	104	107	128	129	130	139			
12:	26*	27	30*	32*	34*	53	60*	62*	64*	66*	92*	104*	108*	124*	130*
	134*	136*	138*												
13:	27	29	41	47	56	65	76	118	128	131	132				
14:	31	32*	34*	36*	38*	40*	48*	52*	56*	61	76*	78*	110*	112*	118*
	134*														
15:	51	88	127												
16:	36*	46*	60*	78*	80*	90*	110*	116*	122*	130*					
17:	54	118													
18:	38*	49	57	64*	96*	102*									
19:	57*	76*	120												
20:	48*	62*	76*	98*	100*	120*									
21:	57	86													
22:	47	56*	62*	126*											
23:	52														
24:	54*														
26:	58*	112*													
30:	102*														
36:	98*														
480 =		331 *		0 #			811 Total								

Modulus 153, Period 72

0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17*	18*	19	20	21*	23	24*	25	26	27*	28	29	30*	32
	33*	34*	37	38	39*	41	42*	43	46	47	48*	50	51*	52	54*
	55	56	59	60*	61	64	65	68*	69*	73	74	77	78*	82	83
	86	87*	91	95	96*	100	104	109	113	118	122	131			
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	20	21	22	23	24	25	26	27	28	29	31	33	39	40
	43	44	45	46	47	48	49	50	51	52	53	54	55	58	60
	61	62	63	65	66	67	68	69	71	72	73	75	77	79	80
	81	82	85	86	87	88	93	94	96	97	99	102	103	104	105
	106	107	109	110	111	113	115	116	117	121	123	126	127	128	129
	130	132	133	137	138	139	141	144	145	146	147	149	150	151	
2:	8	9	10	11	12	13	14	20	22	23	24	26	29	31	32
	36	39	40	41	42	44	45	46	47	51	52	55	57	59	61
	62	63	65	69	73	77	78	79	81	86	88	90	94	96	98
	100	104	106	108	110	111	113	116	120	123	129	132	135	139	141
	144	145	146												
3:	9*	11	12*	13	18*	21*	25	27*	28	31	33*	37	42*	44	46
	47	55	58	61	63*	64	68	69*	72*	74	78*	88	92	98	109
	119	120*	129*	140	143	145									
4:	16	19	22	23	26	27	28	40	43	62	63	67	73	78	79
	87	94	114	117	118	124	125	130							
5:	12	13	19	38	53	61	68	73	88	104	107				
6:	23	24*	36*	50	65	85	137								
7:	21	26	65	80	81	96	136								
8:	86	107	126												
9:	23	27*	36*	63*	81*										
12:	48*														
288 =		44 *		0 #			332 Total								

Modulus	154,	Period	240												
0:	1	2*	3	4*	5	6*	7*	8*	9	10*	11*	12*	13	14*	15
	16*	17	18*	19	20*	21*	22*	23	24*	26*	27	28*	29	30*	31
	33*	34*	35*	36*	37	38*	40*	41	42*	43	44*	45	47	48*	49*
	51	52*	54*	55*	56*	58*	59	61	62*	63*	65	66*	69	70*	72*
	73	76*	77*	79	80*	83	84*	86*	87	90*	91*	94*	97	98*	101
	104*	105*	108*	112*	115	119*	122*	126*	129	133*	140*	147*			
1:	3	4	6	8	10	11	14	15	16	18	19	21	23	24	26
	30	31	39	42	74										
2:	5	6*	7	8*	11	12*	16*	17	19	20*	22*	28*	30*	32*	36*
	38*	41	42*	46*	48*	52*	57	59	60*	62*	67	73	78*	84*	85
	105	148*													
3:	9	11	13	18	40	52									
4:	10*	12*	14*	16*	19	22*	24*	38*	44*	47	56*	67	82*	96*	124*
6:	18*	22*	26*	36*	51	80*	104*								
7:	28*	56*													
8:	38*	94*	112*												
12:	36*														
14:	56*	112*	133*												
28:	112*														
	72 =	105 *	0 #	177 Total											

Modulus	155,	Period	60												
0:	1	2	3	4	5*	6	7	8	9	10*	11	12	13	14	15*
	16	17	18	19	20*	21	22	23	24	25*	26	27	28	29	30*
	31*	32	34	35*	36	37	39	40*	41	42	44	45*	46	47	49
	50*	51	52	54	55*	56	57	59	60*	61	64	65*	67	69	70*
	72	74	75*	77	79	80*	82	84	85*	87	89	90*	92	95*	97
	100*	102	105*	107	110*	112	115*	117	120*	122	125*	130*	135*	140*	145*
	150*														
1:	3	4	5	6	8	10	11	12	13	14	15	16	17	18	19
	20	23	24	25	27	28	29	30	31	32	33	34	35	36	37
	38	39	40	41	42	43	44	46	47	48	50	52	53	54	56
	57	58	61	62	63	64	65	66	67	68	69	71	72	73	74
	75	76	78	81	82	83	84	85	87	89	90	91	92	94	98
	99	100	101	102	104	106	110	112	113	114	115	116	117	118	119
	120	121	122	123	124	125	127	129	131	132	133	137	139	141	143
	144	145	146	150	151	152	153								
2:	5	7	8	9	10	11	12	15	16	19	20	21	23	24	25
	26	27	28	29	31	32	34	36	40	41	43	45	47	48	49
	54	56	60	62	63	67	68	70	71	72	73	74	75	76	78
	79	83	85	86	87	89	91	95	103	104	107	108	109	111	112
	114	116	119	122	132	133	134	135	137	138	144	145	147	148	149
	150	151													
3:	8	11	12	16	18	19	23	26	28	29	35	38	40	42	43
	45	47	49	52	53	54	57	60	61	69	71	74	75	85	88
	89	101	105	106	107	111	112	115	119	120	122	127	138	139	140
	142	143	146	150											
4:	19	20	22	24	30	35	40	46	47	51	59	61	63	67	72
	79	80	82	83	86	108	113	115	119	120	126	133	136	140	144
	150														
5:	16	17	19	23	47	51	57	65*	69	74	92	95*	97		

	Page 52														
Modulus	158,	Period 78													
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
	76*	77	78*	79*	80*	81	82*	83	84*	85	86*	87	88*	89	90*
	91	92*	93	94*	95	96*	97	98*	99	100*	101	102*	103	104*	105
	106*	107	108*	109	110*	111	112*	113	114*	115	116*	117	118*	119	120*
	121	122*	123	124*	125	126*	127	128*	129	130*	131	132*	133	134*	135
	136*	137	138*	139	140*	141	142*	143	144*	145	146*	147	148*	149	150*
	151	152*	153	154*	155	156*	157								
1:	5	6	9	11	12	13	14	15	18	19	21	23	24	26	27
	28	29	30	32	34	35	38	39	40	42	43	44	47	49	50*
	51	55	58	60	61	63	64	66	68	70	72	73	75	77	78
	79	80	82	83	84	85	86	87	88	89	90	91	93	96	98
	99	101	103	104	108	109	112	116	117	118	124	125	127	129*	131
	136	140	141	145	146	147									
2:	7	9	17	19	25	27	29	31	41	45	47	51	55	60*	67
	75	77	79	93	99	100*	105	109	111	113	119	125	129	133	135
	143	149	153												
3:	11	15	16	27	29	36	42	61	69	71*	76	77	79	82	83
	89	92	94	105	106	115	121	129	145	150*					
4:	9	13	19	25	33	67	83	109	143						
5:	13*	14	39	49	95	97	105	108	139						
6:	59	131	142*	143											
7:	15	18	34*	39											
8:	85														
9:	71														
11:	143														
	237 =		82 *			6 #		325	Total						

Modulus	159,	Period 216													
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19	20	22	23	24*	25	26	28	29	30*	31	32
	33*	34	35	37	38	39*	40	41	43	44	45*	46	47	49	50
	51*	52	53*	56	59	62	65	66*	68	71	74	77	80	83	86
	89	92	95	98	101	104									
1:	3	5	7	8	9	11	14	15	16	19	20	21	24	27	34
	35	38	40	43	46	49	60	62	68	69	72	74	77	87	93
	99	102	115	127	130	133									
2:	6	13	15	16	17	27	42	70	76	95	101	123			
3:	7	9*	14	15*	21*	24*	27*	33*	42*	48*	57*	60*	72*		
4:	65														
6:	14	18*	51*												
	104 =		27 *			0 #		131	Total						

S

														Page	53	
Modulus	160,	Period												240		
0:	1	2*	3	4*	5*	6*	7	8*	9	10*	11	12*	13	14*	15*	
	16*	17	18*	19	20*	21	22*	23	24*	25*	26*	27	29	30*	31	
	32*	33	34*	35*	36*	37	38*	39	40*	41	42*	43	44*	45*	46*	
	47	49	50*	51	52*	53	54*	55*	57	58*	59	60*	61	62*	63	
	65*	66*	67	69	70*	71	73	74*	75*	76*	77	78*	79	80*	88*	
	92*	104*	120*	132*												
1:	3#	4	5	6	8#	11	13#	14	18#	19	20	21	23#	27	28#	
	30	33#	35	37	38#	43#	44	46	48#	51	52	53#	54	58#	59	
	63#	67	68#	69	73#	75	78#	83#	85	88#	91	94	98#	99	100	
	103#	107	113#	115	118#	123#	128#	131	138#	139	143#	147	153#	155	158#	
2:	6*	8*	10*	11#	12*	16*	21#	22*	26*	28*	36*	38*	40*	42*	46*	
	54*	56*	66*	70*	76*	86*	88*	92*	96*	102*	116*	118*	126*	134*	146*	
	150*	156*														
3:	9#	14#	24#	34#	49#	54#	64#	74#	89#	94#	104#	114#	129#	134#	144#	
	154#															
4:	12*	16*	17#	20*	22*	24*	27#	32*	42*	44*	52*	56*	57#	67#	72*	
	76*	92*	108*	132*	140*	152*										
5:	15*	20*	25*	30*	55*	65*	95*	135*								
6:	18*	28*	33#	48*	68*	98*	108*	128*	148*							
8:	19#	24*	34*	44*	54*	59#	64*	84*	144*							
9:	42#	62#	82#	107#	122#	142#										
10:	30*	40*	50*	110*												
11:	23#	28#	63#	68#	128#											
12:	36*	56*	66*	96*	136*											
16:	38*	48*	68*													
18:	84*	124*														
20:	60*	80*														
22:	46*	56*														
24:	112*	132*														
32:	96*															
44:	92*															
	64 =	139 *	64 #	267 Total												

Modulus	161,	Period												48		
0:	1	2	3	4	5	6	7*	8	9	10	11	12	13	14*	15	
	16	17	18	19	20	21*	22	23*	24	25	26	27	28*	29	30	
	31	32	33	34	35*	36	37	38	39	40	41	42*	43	44	45	
	46*	47	48	49*	50	51	52	53	54	55	56*	57	58	59	60	
	61	62	63*	64	65	66	67	68	69*	70*	71	72	73	74	75	
	76	77*	78	79	80											
1:	4	5	6	7	8	9	10	11	12	13	15	16	17	18	19	
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
	35	36	37	38	39	40	43	44	45	46	47	48	49	50	51	
	52	54	56	57	58	59	60	61	65	67	68	69	70	71	72	
	73	74	75	77	78	79	83	84	85	87	88	89	90	91	92	
	93	94	95	97	98	99	101	102	103	104	105	106	108	110	111	
	112	114	115	116	117	118	119	121	123	124	125	127	129	130	131	
	133	134	135	136	137	138	139	140	141	142	143	144	146	147	149	
	150	151	152	153	154	156	157	158								

													Page	54	
Modulus	161	(continued)													
2:	7	9	10	11	14	15	16	17	18	21	22	23	24	25	26
	27	29	30	32	33	35	37	38	40	41	42	43	45	46	47
	48	49	50	51	54	55	56	58	61	62	64	66	67	68	70
	71	72	74	75	76	77	78	81	85	86	87	88	89	92	93
	96	97	98	99	101	102	105	107	108	109	112	113	114	115	116
	117	118	120	121	122	123	125	130	131	133	134	136	137	138	139
	140	141	142	145	146	147	148	153	154	156					
3:	10	11	12	13	14	15	16	17	20	21	22	24	26	27	29
	31	33	34	35	39	41	43	46	48	49	50	53	54	61	62
	64	66	67	68	71	72	73	75	76	77	87	88	89	91	92
	93	96	98	100	103	108	110	111	114	115	116	118	121	125	129
	130	131	135	136	137	138	140	142	144	148	149	150	151	152	153
	154														
4:	15	17	20	22	23	25	28	29	32	33	34	35	41	42	43
	44	46	48	53	54	55	57	63	64	66	69	73	74	75	76
	89	90	92	95	96	99	101	102	108	110	111	112	117	119	121
	122	123	124	131	132	133	140	142	145	148	150				
5:	16	18	19	21	23	25	36	38	39	42	47	56	60	67	74
	82	85	92	99	106	110	119	122	124	128	130	141	143	145	148
6:	19	23	31	32	40	44	45	54	55	66	67	68	81	82	86
	99	100	101	113	122	123	127	133	135	136	144				
7:	38	39	40	41	55	69	83	85	99	113	127	128	129	130	
8:	29	30	37	43	58	81	88	126	132	139					
9:	40	51	63	66											
10:	38	42	51	83	120	129									
11:	35	52	61	66	106	111	112	137							
12:	38	64	105	109											
	528 =	14 *		0 #				542 Total							

Modulus	162,	Period 216													
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25	26*	27*	28*	29	30*
	31	32*	33*	34*	35	36*	37	38*	39*	40*	41	42*	43	44*	45*
	46*	47	48*	49	50*	51*	52*	53	54*	55	56*	57*	58*	59	60*
	61	62*	63*	64*	65	66*	67	68*	69*	70*	71	72*	73	74*	75*
	76*	77	78*	79	80*	81*									
1:	4	5	6	7	8	9	10	11	12	13	14	15	22	24	25
	26	29	30	31	33	40	43	44	45	46	47	48	61	63	66
	79	84	85	87	94	96	97	100	102	103	105	112	114	115	117
	118	120	121	133	138	151	153	154	156						
3:	12*	15*	18*	21*	24*	27*	33*	36*	39*	42*	75*	90*	93*	99*	120*
	129*	138*	144*												
9:	36*	45*	63*	81*	108*	117*									
	81 =	78 *		0 #				159 Total							

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														Page	55
Modulus	163,			Period											328
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78	79	80	81									
	81 =	0 *			0 #			81 Total							

Modulus	164,			Period												120
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15	
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*	
	31	32*	33	34*	35	36*	37	38*	39	40*	41*	42*	44*	46*	48*	
	50*	52*	54*	56*	58*	60*	62*	64*	66*	68*	70*	72*	74*	76*	78*	
	80*	82*	83	85	87	89	91	93	95	97	99	101	103	105	107	
	109	111	113	115	117	119	121	123*								
1:	3	4	5	6	7	8	9	10	11	13	14	17	18	19	21	
	22	23	26	28	30	31	33	34	35	36	37	40	46	47	48	
	51	55	56	59	60	63	64	67	71	72	74	75	76	78	79	
	83	87	88	91	92	96	108	110	115	116	118	119	126	127	130	
	131	139	142	146	151	155	158	159								
2:	8*	9	10*	12*	13	14*	16*	17	20*	21	22*	25	27	28*	29	
	33	35	38*	45	46*	49	51	52*	56*	57	59	63	66*	67	70*	
	71	72*	73	74*	75	93	103	107	109	115	117	131	133	137	139	
	141	145														
3:	7	9	12	13	14	32	47	49	50	51	54	57	63	69	90	
	98	110														
4:	16*	20*	24*	28*	32*	40*	42*	44*	50*	54*	56*	66*	76*	92*	98*	
	102*	104*	111	112*	113	132*	139	140*	144*	148*						
5:	15	24	64	87	138											
6:	49															
7:	23	41	55													
8:	32*	40*	64*	88*	100*	132*										
	168 =	87 *			0 #			255 Total								

Modulus	165,			Period												40
0:	1	2	3*	4	5*	6*	7	8	9*	10*	11*	12*	13	14	15*	
	16	17	18*	19	20*	21*	22*	23	24*	25*	26	27*	28	29	30*	
	31	32	33*	34	35*	36*	37	38	40*	41	42*	43	44*	45*	46	
	47	48*	49	50*	51*	52	53	55*	57*	58	60*	61	63*	64	67	
	70*	72*	73	75*	76	79	81*	82	85*	87*	88*	90*	91	94	96*	
	97	100*	103	105*	106	109	111*	120*	126*	135*	150*					
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	18	19	21	22	23	24	25	26	28	29	30	31	32	33	34	
	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	
	50	51	52	53	54	56	58	59	60	61	62	63	64	65	66	
	67	68	69	70	71	72	73	74	75	76	77	79	80	81	83	
	85	86	87	88	89	90	91	92	94	95	96	97	98	99	100	
	101	102	103	104	105	106	107	108	109	110	113	114	115	116	117	
	118	119	120	121	122	123	124	125	126	127	129	130	131	132	134	
	135	136	137	138	140	141	142	147	149	150	151	152	153	155	157	
	158	159	160	161	162	163										

													Page	59	
Modulus	170,	Period											180		
0:	1	2*	3	4*	5*	6*	7	8*	9	10*	12*	13	14*	15*	16*
	17*	19	20*	21	23	24*	26*	27	28*	30*	31	34*	35*	37	38*
	41	42*	45*	46*	49	52*	53	56*	60*	63	67	74*	85*		
1:	3#	4	5	6	7	8#	9	10	11	12	13#	14	15	16	17
	18#	19	20	21	23#	24	25	26	27	28#	30	31	32	33#	38#
	39	40	41	42	43#	45	48#	50	53#	54	55	57	58#	60	62
	64	65	66	68#	72	73#	75	77	78#	82	83#	84	85	88#	92
	93#	94	95	96	98#	99	100	103#	106	107	108#	109	110	111	112
	118#	119	120	122	127	128#	130	132	133#	134	138#	140	141	143#	145
	153#	158#	162	163#	164	166	167								
2:	6*	7	8*	9	11#	12*	14*	16*	18*	21#	22*	24*	26*	27	29
	30*	31#	36*	41#	42*	43	46*	48*	52*	56*	61#	63	64*	66*	75
	76*	77	81#	86*	90*	91#	95	106*	110*	111#	120*	129	136*	141#	144*
	145	146*	151#	154*	156*	161#	163								
3:	9#	14#	19#	24#	29#	34#	49#	59#	64#	74#	99#	104#	109#	114#	124#
	139#	149#	159#												
4:	12*	17#	22*	27#	42*	52*	57#	62*	67#	77#	87#	97#	107#	117#	122*
	132*	147#	157#												
5:	15*	20*	25*	30*	35*	40*	45*	55*	70*	80*	85*	100*	125*	130*	140*
	150*	155*													
6:	28*	33#	38*	48*	58*	63#	113#	128*	143#	148*					
7:	21#	26#	41#	56#	66#	71#	86#	91#	106#	121#	136#	151#			
8:	24*	44*	54*	89#											
9:	32#	42#	87#	137#	147#										
10:	30*	35*	40*	45*	70*	90*	135*								
12:	66*	91#													
13:	39#	69#													
14:	42*	52*	67#												
17:	51*														
21:	63#														
34:	102*														
	96 =	101 *		96 #		293 Total									

Modulus	171,	Period											72		
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19*	20	21*	22	24*	25	26	27*	28	29	30*	31
	33*	34	35	36*	37	38*	39*	40	42*	43	44	45*	47	48*	49
	51*	52	53	54*	56	57*	58	61	62	63*	65	66*	67	70	71
	72*	74	75*	76*	79	80	81*	84*	85	88	89	90*	93*	94	98
	99*	102*	103	107	108*	111*	112	116	117*	121	125	126*	130	135*	139
	144*	148	153*	162*											
1:	3	4	5	6	7	9	10	11	12	13	14	15	16	18	19
	20	21	22	24	25	26	27	28	29	30	31	32	33	34	35
	36	37	38	40	41	43	44	45	46	48	50	53	54	56	57
	58	59	61	62	63	65	71	72	73	75	76	77	79	80	81
	84	86	88	89	91	92	93	94	97	99	103	106	107	109	110
	111	112	113	115	117	118	121	122	124	125	126	127	129	130	136
	137	138	143	145	147	151	155	156	160	162	165	167	169		

Modulus	177,	Period	232												
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19	20	21*	22	23	24*	25	26	27*	28	29	30*
	31	32	33*	34	35	36*	37	38	39*	40	41	42*	43	44	45*
	46	47	48*	49	50	51*	52	53	54*	55	56	57*	58	59*	60*
	62	63*	65	66*	68	69*	71	72*	74	75*	77	78*	80	81*	83
	84*	86	87*	89	90*	92	93*	95	96*	98	99*	101	102*	104	105*
	107	108*	110	111*	113	114*	116	117*	120*	123*	126*	129*	132*	135*	138*
	141*	144*	147*	150*	153*	156*	159*	162*	165*	168*	171*	174*			
1:	3	6	7	8	9	11	16	19	22	23	24	25	26	29	32
	34	36	40	43	46	47	50	55	56	57	58	59	64	74	76
	77	79	80	86	89	100	103	112	152						
2:	7	11	12	16	31	37	44	46	48	50	51	52	69	72	79
	93														
3:	8	31	78*	102*											
4:	14	23	24												
5:	46														
6:	62	156*													
	120 =	62 *	0 #	182 Total											

Modulus	178,	Period	132												
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	14*	15	17
	18*	19	20*	21	22*	24*	25	27	28*	30*	31	33	34*	37	38*
	40*	41	43	44*	47	50*	53	54*	57	60*	63	66*	73	76*	89*
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	19	20	21	22	23	24	25	26	27	28	30	31	32	33
	34	38	39	40	41	42	43	45	47	48	49	50	51	52	53
	54	58	60	62	64	65	67	68	69	71	72	74	75	76	78
	79	80	81	82	83	84	85	86							
2:	6*	7	8*	9	10*	11	12*	13	14*	15	16*	18*	19	20*	22*
	23	24*	26*	27	28*	29	30*	31	32*	34*	35	36*	37	38*	40*
	41	42*	44*	45	46*	48*	49	50*	51	52*	54*	56*	60*	61	62*
	64*	65	66*	67	68*	69	73	76*	77	78*	79	80*	82*	83	84*
	85	86*	90*	94*	96*	97	98*	100*	101	102*	103	104*	106*	107	108*
	111	113	116*	119	120*	124*	128*	130*	131	134*	135	136*	138*	139	142*
	144*	145	148*	149	150*	152*	153	155	156*	158*	160*	162*	164*	165	166*
	167	168*	169	170*	171	172*	173								
3:	10	11	13	14	17	20	22	25	29	30	33	36	41	45	47
	56	59	62	63	67	73	75	78							
4:	12*	14*	16*	18*	19	22*	24*	26*	28*	30*	35	36*	38*	39	44*
	45	46*	47	48*	52*	54*	58*	60*	62*	70*	71	74*	79	80*	81
	82*	84*	90*	92*	98*	100*	103	111	112*	120*	122*	128*	132*	134*	137
	138*	143	146*	152*	154*	156*	158*	160*	164*	166*	168*				
5:	17	20	28	36	46	58	74	77							
6:	20*	22*	26*	28*	34*	40*	44*	50*	58*	60*	66*	72*	73	82*	90*
	94*	112*	118*	124*	126*	134*	146*	150*	156*						
7:	36														
8:	24*	28*	38*	44*	70*	78*	90*	92*	96*	108*	142*	158*			
10:	34*	40*	56*	72*	92*	116*	148*	154*							
11:	33														
12:	44*														
14:	72*														
22:	66*														
	180 =	181 *	0 #	361 Total											

Modulus	179,	Period	178												
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
	166	167	168	169	170	171	172	173	174	175	176	177	178		
1:	75#	105													
2:	150#														
	179 =	0 *			2 #										181 Total

Modulus	180,	Period	120												
0:	1	2*	3*	4*	5*	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25*	26*	27*	29	30*	31
	32*	33*	34*	35*	36*	38*	39*	40*	41	42*	43	44*	45*	48*	49
	50*	51*	52*	53	57*	58*	59	60*	61	62*	67	68*	69*	70*	71
	76*	77	78*	79	80*	86*	87*	88*	89	90*	95*	96*	97	98*	99*
	105*	106*	107	114*	115*	116*	117*	124*	125*	133	134*	135*	143	152*	
1:	3#	4	5	6	7	8#	9	10	11	12	13#	14	15	17	18#
	19	20	22	23#	24	25	26	27	28#	29	30	32	33#	34	38#
	39	40	41	42	43#	45	46	47	48#	49	51	53#	55	56	58#
	59	60	61	62	63#	65	66	67	68#	69	70	73#	75	78#	79
	83#	84	85	86	87	88#	89	91	93#	95	97	98#	99	100	101
	102	103#	105	106	108#	111	115	118#	119	120	123#	127	131	133#	135
	138#	142	143#	147	148#	150	151	153#	155	156	158#	163#	167	168#	169
	170	171	174	178#											
2:	5	6*	7	8*	9	10*	11#	12*	13	14*	16*	18*	20*	21#	22*
	24*	26*	28*	29	30*	33	36*	41#	43	44*	45	49	50*	51#	52*
	56*	60*	61#	64*	65	66*	69	76*	77	79	81#	85	86*	91#	92*
	96*	98*	101#	102*	105	111#	113	115	116*	117	120*	121#	122*	126*	131#
	132*	134*	138*	137	141#	146*	149	151#	153	156*	157	158*	168*	171#	173
	176*	177													
3:	9*	11	14#	15*	18*	19#	21*	24*	28	29#	32	34#	39*	45*	47
	49#	51*	54*	55	57*	59#	64#	68	69*	74#	91	94#	99*	100	102*
	104#	114*	127	129*	134#	140	153*	154#	163	174*	176				
4:	9	12*	17#	22*	32*	37#	42*	45	47#	52*	57#	72*	81	82*	87#
	102*	107#	112*	117#	122*	132*	137#	147#	153	162*	172*				
5:	13	15*	18	20*	25*	30*	35*	45*	49	55*	60*	65*	75*	85*	95*
	115*	125*	128	130*	135*	145*	150*	170*							
6:	13#	18*	23#	28*	43#	48*	53#	58*	63*	73#	78*	83#	103#	113#	133#
	143#	153*	163#	173#											
7:	16#	21#	26#	31#	36#	46#	51#	61#	76#	96#	106#	121#	126#	151#	166#
	171#														
8:	19#	24*	34*	44*	59#	69#	79#	84*	94*	99#	109#	114*	129#	139#	144*
	159#	164*													
9:	22#	27*	42*	72*	77#	97#	162*								
10:	25*	35*	40*	45*	50*	65*	70*	90*	120*	130*	145*	165*			

														Page	67
Modulus	184,	Period												48	
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23*	24*	25	26*	28*	29	30*	32*
	33	34*	36*	37	38*	40*	41	42*	44*	45	46*	47	48*	49	51
	52*	53	55	56*	57	59	60*	61	63	64*	65	67	68*	69*	71
	72*	75	76*	79	80*	83	84*	87	88*	91	92*	94*	95	98*	99
	102*	103	106*	107	110*	111	114*	118*	122*	126*	130*	134*	138*	141	145
	149	153	157												
1:	3	4	5	6	7	8	9	10	11	12	13	14	17	18	19
	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
	35	36	37	38	40	41	42	43	44	45	46	47	48	50	51
	52	53	54	55	57	58	59	60	61	64	65	66	67	68	69
	71	72	74	75	76	77	78	79	80	81	82	83	84	86	88
	89	90	91	92	93	95	96	97	99	100	101	102	103	104	106
	107	110	111	113	114	115	116	117	118	119	120	123	125	126	127
	128	130	132	134	135	137	139	142	143	144	145	146	147	148	150
	151	152	153	155	156	157	158	159	160	161	163	165	166	167	169
	171	172	173	175	176	179	180	181							
2:	5	6*	7	8*	9	10*	11	14*	16*	17	18*	20*	21	22*	24*
	25	26*	27	28*	29	31	33	34*	35	37	38*	39	41	42*	43
	44*	45	46*	50*	52*	53	54*	56*	58*	62*	64*	65	66*	69	70*
	72*	75	76*	81	82*	84*	85	86*	87	89	90*	93	94*	97	99
	100*	103	105	106*	108*	109	110*	111	113	116*	117	119	120*	121	123
	125	128*	129	131	132*	133	134*	136*	138*	142*	143	144*	145	149	150*
	151	154*	155	157	158*	161	162*	166*	168*	169	173	175	178*	179	181
3:	8	11	12	14	15	16	17	18	20	21	22	23	24	27	29
	30	31	32	33	34	36	38	39	41	43	44	47	49	50	51
	52	54	56	57	58	61	62	64	65	68	70	74	75	76	78
	79	80	81	83	84	88	89	92	95	96	99	102	103	106	107
	108	111	112	113	114	115	119	120	122	123	126	128	129	130	133
	138	139	141	144	148	149	150	153	157	158	160	161	164	167	169
	171	172	173	174	175	176	177								
4:	9	10*	13	14*	16*	18*	19	20*	22*	23	27	28*	29	32*	33
	34*	36*	37	42*	44*	45	48*	50*	53	54*	56*	58*	61	62*	63
	65	69	71	74*	75	77	78*	79	81	82*	85	88*	92*	97	104*
	105	106*	107	109	112*	116*	119	124*	127	130*	132*	138*	140*	147	152*
	155	162*	163	169	171	172*	173	174*	175	177	178*				
5:	12	13	21	22	25	27	36	39	40	41	42	47	49	51	52
	53	62	63	64	70	72	81	86	87	92	99	105	107	110	115
	117	125	136	139	140	141	143	147	150	154	159	160	161	162	163
	171	173													
6:	19	22*	28*	31	32*	33	40*	41	44*	46*	51	60*	61	62*	64*
	67	68*	72*	75	77	78*	81	82*	85	86*	93	94*	97	98*	105
	113	114*	115	118*	117	125	129	130*	135	136*	149	150*	151	155	159
	160*	162*	166*	169	173										
7:	15	21	23	25	26	27	51	53	59	62	74	82	87	94	100
	113	127	138	151	152	165	168	174	176						
8:	17	19	23	25	26*	28*	45	49	54*	61	65	79	85	97	99
	101	117	121	126*	154*	158*	162*	164*	171						
9:	19	46	49	51	53	55	61	63	72	96	134	140	147	148	153
10:	25	26*	50*	94*	102*	124*	141	145	162*	169					
11:	25	33	41	48	49	60	94	95	102	123	147	150	154		
12:	29	41	44*	136*	162*										

Modulus 184 (continued)

13: 46 72 75 109 111

14: 42* 164*

15: 32 36 109 142

18: 37

23: 69* 92*

528 = 183 * 0 # 711 Total

Modulus 185, Period 380

0: 1 2 3 4 5* 6 7 8 9 10* 11 12 14 15* 16

18 19 20* 21 23 24 25* 27 28 29 31 32 33 36 37*

40* 41 42 45* 46 49 50* 53 54 58 62 63 67 71 75*

84

1: 3# 5 6 8# 10 11 12 13# 15 18# 22 23# 26 27 28#

30 32 33# 35 38# 43# 47 48# 49 52 53# 58# 63# 64 67

68# 69 72 73# 78# 79 80 83# 84 85 88# 89 93# 98# 103#

108# 109 113# 118# 121 126 128# 146 148# 168# 173#

2: 6# 7 11# 15 16# 19 20 31# 51# 52 56# 57 61# 66# 71#

81# 86# 93 98 116# 136# 156# 176#

3: 14# 24# 29# 34# 44# 64# 69# 84# 94# 124# 154# 174#

4: 17# 22# 27# 32# 57# 167#

5: 15* 25* 30* 50* 55* 60* 75*

6: 23# 28# 48# 163#

7: 21# 41# 76# 96#

8: 34# 79#

9: 62#

10: 35* 95*

37: 111*

72 = 20 * 72 # 164 Total

Modulus 186, Period 120

0: 1 2* 3* 4* 5 6* 7 8* 9* 10* 11 12* 13 14* 15*

16* 17 18* 19 20* 21* 22* 23 24* 25 26* 27* 28* 29 30*

31* 32* 33* 34* 35 36* 37 38* 39* 40* 41 42* 43 44* 45*

46* 47 48* 49 50* 51* 52* 53 54* 55 56* 57* 58* 59 60*

61 62* 63* 65 66* 68* 69* 71 72* 74* 75* 77 78* 80* 81*

83 84* 86* 87* 89 90* 92* 93* 95 96* 98* 99* 101 102* 104*

105* 107 108* 110* 111* 113 114* 116* 117* 119 120* 122* 123* 126* 129*

132* 135* 138* 141* 144* 147* 150* 153* 156* 159* 162* 165* 168* 171* 174*

177* 180* 183*

1: 3 4 6 7 8 9 10 11 12 13 14 15 16 17 18

19 21 24 25 26 27 29 30 31 32 33 34 35 36 38

39 40 41 42 43 44 46 47 50 51 52 53 54 56 57

58 59 61 62 67 68 73 80 82 83 85 89 91 92 94

98 100 104 106 109 110 113 115 116 118 119 121 128 131 134

137 149 158 176

2: 5 6* 7 9 11 14* 16* 18* 21 23 25 26* 27 28* 29

34* 38* 39 41 42* 43 50* 52* 54* 55 57 59 60* 64* 67

70* 72* 79 82* 84* 85 87 88* 91 102* 103 105 108* 117 133

145 163 181

4

	Page 69														
Modulus 186	(continued)														
3:	12*	16	17	18*	21*	22	23	24*	26	27*	29	30*	33*	35	36*
	39*	44	45*	47	53	54*	57*	63*	74	75*	80	81*	83	87*	90*
	93*	96*	102*	108*	114*	116	119	126*	132*	138*	141*	150*	153*	156*	159*
	162*	168*	171*	177*											
4:	9	13	17	18*	22*	23	32*	46*	50*	51	54*	57	58*	71	77
	79	82*	86*	103	113	115	119	173	179						
5:	12	16	20	26	38	42	44	50	57	82	87	88	93	106	112
	117														
6:	15*	21*	27*	32*	44*	52*	63*	65	69*	75*	78*	81*	83	87*	114*
	117*	123*	129*	165*	171*										
7:	27	48	54	55	116										
8:	43	102*													
9:	36*	51*	54*	63*	78*	87*	105*	132*	141*	159*	162*	171*			
10:	43														
11:	43														
12:	27*	51*	153*	171*											
15:	60*	78*	132*	150*											
18:	63*	156*													
21:	162*														
	192 =	199 *	0 #	391 Total											

Modulus 187,	Period 180														
0:	1	2	3	4	5	6	7	8	9	10	11*	12	13	15	16
	17*	18	19	20	21	22*	23	24	25	26	27	29	30	32	33*
	34*	35	36	37	38	39	40	41	43	46	47	49	50	51*	52
	53	54	57	58	60	61	63	64	66*	68*	69	71	72	74	75
	78	80	83	85*	86	89	91	92	94	97	100	102*	103	105	106
	108	111	114	117	119*	120	122	125	128	131	136*	139	142	145	153*
	156	159	170*	173											
1:	3	4	6	7	8	9	11	12	14	15	19	20	21	24	26
	28	29	30	31	32	38	41	43	46	49	52	55	58	59	60
	63	70	72	75	77	80	81	83	92	94	97	109	123	131	140
	145	151	162	179											
2:	5	6	7	8	11	13	18	19	22	23	24	27	28	30	31
	35	38	39	40	48	52	56	59	62	64	73	103	107	115	118
	129	160	171												
3:	11	18	19	23	29	33	42	44	53	62	68	84	95	112	163
4:	19	36	54	62	80	96	107	113							
5:	28	45	94	105											
6:	46														
7:	42	64													
11:	33*	44*	77*	99*											
17:	68*	136*													
34:	136*														
	192 =	21 *	0 #	213 Total											

Modulus	189	(continued)													
2:	5	7	8	9	14	15	18	26	28	29	30	35	38	39	50
	51	56	60	68	71	72	77	78	81	89	92	93	99	102	113
	114	119	123	131	134	135	140	141	144	152	155	156	162	165	173
	176	177	182	183	186										
3:	9*	12*	14	15*	17	18*	21*	24*	27*	33*	35	38	39*	42*	45*
	48*	51*	54*	56	57*	59	72*	75*	80	84*	90*	98	101	102*	108*
	111*	117*	119	120*	122	135*	138*	143	144*	147*	153*	161	164	171*	174*
	180*	182	183*	185											
6:	15*	21*	24*	27*	42*	45*	54*	78*	87*	90*	108*	117*	150*	153*	168*
	180*														
9:	27*	36*	45*	51*	54*	63*	81*	99*	105*	114*	117*	135*	144*	153*	162*
	168*	171*	177*												
18:	45*	72*	81*	162*											
27:	153*														
	216 =	112 *		0 #	328 Total										

Modulus	190,	Period 180													
0:	1	2*	3	4*	5*	6*	7	8*	9	10*	11	12*	13	14*	15*
	16*	17	18*	19*	20*	21	22*	23	24*	25*	26*	27	28*	29	30*
	31	32*	33	34*	35*	36*	37	38*	40*	41	42*	43	45*	46*	47
	48*	50*	51	52*	53	55*	56*	58*	60*	61	62*	63	65*	66*	67
	68*	70*	71	72*	73	75*	77	80*	81	82*	85*	86*	87	90*	91
	92*	95*	96*	97	100*	101	102*	105*	106*	107	110*	111	112*	115*	116*
	120*	121	125*	126*	130*	131	135*	136*	140*	141	145*	146*	150*	151	155*
	160*	165*	170*	175*	180*	185*									
1:	3#	4	5	6	8#	9	10	11	13#	15	16	17	18#	19	20
	22	23#	24	26	28#	29	31	33#	34	35	38#	43#	44	46	48#
	51	53#	54	55	56	58#	59	60	61	63#	64	69	71	73#	78#
	80	83#	84	88#	89	93#	94	98#	99	103#	105	109	110	113#	118#
	123#	124	129	133#	134	138#	143#	148#	149	158#	168#	173#	178#	183#	188#
2:	6*	7	9	10*	16*	17	19	21#	23	25	26*	29	30*	33	36*
	46*	47	51#	56*	59	61#	63	66*	68*	71#	76*	81#	83	86*	93
	96*	97	101#	106*	111#	121#	131#	141#	146*	147	156*	161#	171#	176*	181#
	186*														
3:	8	9#	13	14#	15	16	19#	23	26	27	31	33	34#	49#	54#
	59#	61	64#	69#	72	74#	79#	89#	99#	104#	109#	124#	129#	130	140
	144#	145	149#	174#	184#										
4:	9	12*	15	17#	20*	29	32*	42*	47#	52*	53	67#	72*	92*	107#
	122*	123	127#	143	157#	162*	167#	172*							
5:	12	19	20*	25*	29	30*	40*	45*	50*	63	65*	68	75*	80*	85*
	90*	95*	100*	106	110*	115*	120*	126	130*	145*	155*	165*	170*	175*	
6:	13#	18*	23#	28*	38*	43#	53#	63#	98*	103#	108*	113#	133#	153#	173#
	178*														
7:	21#	31#	56#	61#	66#	76#	81#	86#	131#	151#	166#	176#	181#		
8:	24*	29#	64*	99#	119#	134*	144*	159#							
9:	22#	27#	32#	47#	102#	142#	162#	172#							
10:	35*	45*	50*	85*	95*	105*	125*	145*	150*	165*					
11:	43#	96#	103#	156#											
12:	36*	76*													
13:	29#	34#													
14:	112*	162*	172*												
15:	40*	75*	80*	115*	130*	135*	155*	170*							

Modulus	192	(continued)													
2:	5	6*	8*	9	10*	12*	14*	16*	17	20*	22*	24*	25	26*	28*
	29	30*	32*	33	34*	36*	37	38*	40*	42*	44*	45	46*	48*	50*
	52*	54*	56*	58*	60*	62*	64*	66*	68*	70*	72*	74*	78*	82*	86*
	88*	90*	102*	106*	108*	110*	112*	116*	118*	120*	124*	126*	128*	130*	132*
	134*	138*	142*	146*	150*	152*	156*	158*	160*	162*	164*	166*	170*	174*	178*
	182*														
3:	7	9*	10	11	12*	15*	17	18*	20	22	26	28	31	32	33*
	34	35	36*	39*	40	50	55	57*	58	59	60*	65	66*	70	74
	79	80	81*	83	87*	88	98	105*	106	107	113	118	122	128	129*
	131	136	151	153*	154	155	161	166	170	176	177*	178	179	184	
4:	10*	12*	13	16*	18*	19	20*	21	24*	28*	32*	33	34*	35	39
	40*	44*	48*	50*	56*	58*	60*	61	64*	66*	67	68*	69	72*	74*
	76*	80*	81	83	84*	87	88*	90*	92*	96*	100*	108*	112*	120*	124*
	128*	132*	136*	140*	144*	148*	156*	164*	172*						
5:	16	19	64	67	73	78	112	115	160	163	169	174			
6:	14*	18*	20*	22*	23	24*	30*	34*	36*	40*	44*	52*	64*	66*	70*
	78*	80*	110*	114*	116*	118*	130*	140*	148*	160*	162*	166*	176*		
7:	18	28	39	67	87	91	135	163	183						
8:	20*	24*	26*	32*	36*	38*	40*	42*	48*	56*	64*	66*	68*	70*	78*
	88*	96*	100*	120*	136*	148*	152*								
9:	28														
10:	29	32*	38*	128*	134*	146*	156*								
11:	28														
12:	28*	36*	40*	44*	46*	48*	60*	66*	88*	104*	128*	132*	140*	160*	
14:	78*	134*	174*												
16:	40*	48*	52*	76*	80*	84*	132*	140*							
20:	58*	64*	76*												
24:	72*	96*													
28:	156*														
	256 =	277 *	0 #	533 Total											

Modulus	193,	Period	388												
0:	1	2	3	4	5	6	7	8	9	10	11	13	14	15	16
	17	18	20	21	22	23	25	27	28	29	30	32	34	35	37
	39	40	42	44	46	47	49	51	54	56	58	61	63	68	70
	75	80	87												
1:	3	4	5	6	7	9	10	13	17	19	21	23	25	26	28
	29	32	33	34	40	43	48	49	50	51	52	53	54	62	64
	65	68	73	76	89	97									
2:	10	17	20	38	39	50	87								
3:	12	26	40												
4:	49	59													
	96 =	0 *	0 #	96 Total											

Modulus	196,	Period 336													
0:	1	2*	3	4*	5	6*	7*	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21*	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35*	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49*	50*	52*	54*	56*	58*	60*	62*	64*	66*	68*	70*
	72*	74*	76*	78*	80*	82*	84*	86*	88*	90*	92*	94*	96*	98*	99
	101	103	105*	107	109	111	113	115	117	119*	121	123	125	127	129
	131	133*	135	137	139	141	143	145	147*						
1:	3	4	7	9	10	13	14	15	16	19	20	22	26	38	48
	54	59	63	66	71	75	87	91	99	103	115	119	150	166	
2:	5	11	19	25	33	39	47	53	61	67	75	81	89		
7:	21*	28*	49*	63*	70*										
14:	35*														
	84 =		63 *			0 #		147	Total						

Modulus	197,	Period 396													
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	16	17
	18	19	20	21	22	23	24	25	26	31	32	33	34	35	36
	37	38	39	46	47	48	49	50	51	52	61	62	63	64	65
	76	77	78	91											
1:	3	4	9	10	12	15	17	22	23	25	26	27	31	36	37
	39	40	42	43	44	46	49	53	54	55	56	58	59	61	62
	63	64	66	74	82	86	90								
2:	7	19	27	46	54	57	62	71	86	88	91	92			
	98 =		0 *			0 #		98	Total						

Modulus	198,	Period 120													
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11*	12*	13	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25	26*	27*	28*	30*	31
	32*	33*	34*	35	36*	37	39*	40*	41	42*	43	44*	45*	46*	48*
	50*	51*	52*	53	54*	55*	57*	59	60*	61	62*	63*	64*	66*	68*
	70*	71	72*	73	75*	77*	79	80*	81*	82*	84*	86*	88*	90*	91
	93*	95	97	99*	100*	102*	104*	106*	108*	109	111*	113	115	117*	120*
	122*	124*	126*	129*	131	133	135*	140*	142*	144*	149	151	153*	160*	162*
	169	171*	180*	189*											
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	17	19
	21	22	23	24	25	26	27	28	29	30	31	32	33	36	37
	38	40	42	43	45	48	49	50	52	54	56	57	58	61	63
	64	69	70	74	75	76	79	80	81	82	84	85	86	87	96
	97	98	100	102	105	108	116	118	120	133	135	138	140	151	152
	153	156	169	171	174	190									
2:	5	6*	7	8*	9	10*	11	13	15	16*	17	18*	19	20*	22*
	23	26*	27	29	33	34*	38*	41	42*	45	51	52*	55	59	60*
	61	62*	63	72*	77	79	83	95	96*	99	105	107	114*	116*	117
	119	125	137	139	141	149	150*	151	152*	155	159	161	170*	171	177
	185	193	195												
3:	7	9*	10	11	12*	14	15*	19	20	22	24*	25	27*	29	30*
	31	33*	35	40	46	50	51*	57*	61	62	73	74	95	100	127
	128	139	140	151	152	163	182	194							
4:	10*	11	12*	16*	18*	26*	30*	34*	36*	38*	39	41	45	52*	54*
	67	81	82*	83	84*	102*	113	124*	127	133	144*	179			
5:	11	13	18	23	38	39	60	71	72	85	114	125	138		

Modulus 198 (continued)

6:	13	14*	18*	24*	30*	39*	48*	51*	54*	57*	58*	60*	66*	80*	87*
	101	102*	114*												
7:	26	39	68	86	92										
8:	19	27	39	68*	90*										
9:	21*	36*	72*												
11:	44*	55*	77*	99*	132*	143*									
12:	36*	48*	78*	108*											
18:	42*	72*	144*	171*											
36:	144*														
	216 =	161 *		0 #		377 Total									

Modulus 199,

Period 22

0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
	196	197	198												
1:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	19	20	21	22	23	24	25	26	27	28	29	31	32	33	34
	35	36	37	38	39	40	41	42	43	44	45	46	47	48	50
	51	52	53	54	55	56	57	58	59	60	61	62*	63	64	65
	67	69	70	71	72	73	75	77	78	80	81	82	83	84	85
	86	87	88	89	90	91	92	93	94	95	96	97	98	102	103
	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
	119	120	122	123	124	125	127	128	129	130	131	133	135	136	137
	138	139	140	141	142	143	144	145	146	147	148	149	150	152	153
	154	155	156	157	158	159	160	162	163	164	165	166	167	168	169
	171	172	173	174	176	177	178	179	180	181	182	183	184	185	186
	187	188	189	190	191	192	193	194	195	196					
2:	5	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	29	30	31	32	33	34	35	36
	37	38	39	40	41	42	44	45	46	47	48	49	50	51	52
	54	55	56	57	58	59	61	62	63	64	66	67	68	70	71
	72	73	74	75	76	77	78	80	81	84	85	86	87	88	89
	90	91	92	93	94	95	96	97	100	101	102	104	105	107	108
	109	111	112	113	114	115	116	117	118	120	121	124*	125	126	127
	128	129	130	131	133	134	135	137	138	139	140	142	143	144	145
	146	147	149	150	153	154	155	156	157	159	160	161	163	164	165
	166	167	168	169	170	171	172	174	175	176	177	178	179	180	181
	182	183	184	185	186	188	189	190	191	192	193	194	196		

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Modulus	199	(continued)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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	185	188	189	190	191	192										7:	15	16	17	18	19	20	22	23	24	26	28	31	32	34	35		37	38	39	40	41	43	44	45	47	48	53	54	55	56	58		59	60	67	69	72	75	82	83	84	85	89	90	93	94	95		101	102	104	108	114	115	117	118	121	122	123	124	133	136	137		139	140	141	147	151	153	154	158	159	161	162	163	164	165	166		167	168	169	172	174	175	177	178	179	181	182	184	186	190	191	8:	17	18	21	22	23	25	27	28	29	30	32	34	38	39	40		43	46	47	48	50	55	56	57	58	64	65	66	67	68	69		73	74	80	81	84	85	86	88	91	92	94	101	102	103	104		106	108	110	111	119	121	122	123	126	131	132	134	135	138	139		140	141	142	143	148	149	150	152	153	157	160	161	163	167	168		169	175	178	180	181	182	184	185	186	188	189	190				9:	19	21	22	25	26	31	32	33	34	40	46	48	49	50	51		52	54	57	58	60	65	67	68	72	73	74	77	78	82	83		84	86	87	88	91	92	93	101	106	108	110	111	112	121	124		125	130	131	133	136	140	142	143	149	150	156	157	158	159	160#		162	164	167	171	172	173	177	178	180	186	187																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Modulus 199 (continued)

- 41: 154#
- 42: 120
- 47: 128#
- 49: 118
- 55: 124

1791 = 0 * 18 # 1809 Total

Modulus 200, Period 300

- 0: 1 2* 3 4* 5* 6* 7 8* 9 10* 11 12* 13 14* 15*
 - 16* 17 18* 19 20* 21 22* 23 24* 25* 26* 29 30* 33 34*
 - 36* 37 38* 40* 41 42* 44* 45* 46* 48* 49 50* 51 53 55*
 - 57 59 61 63 65* 67 68* 69 71 72* 73 75* 79 83 87
 - 91 95* 99 100* 102* 103 106* 107 110* 111 114* 115* 118* 119 122*
 - 123 126* 130* 134* 138* 142* 146* 150* 153 157 161 165* 169 173
- 1: 3# 4 5 6 8# 11 12 13# 14 18# 19 20 22 23# 27
 - 28# 30 33# 35 36 38# 43# 44 48# 51 52 54 59 63# 67
 - 68# 70 73# 75 76 78# 86 88# 91 98# 99 100 107 113# 115
 - 118# 124 131 134 138# 139 140 143# 147 155 163# 166 171 179 187
 - 195
- 2: 6* 11# 16* 21# 26* 31# 36* 51# 56* 61# 76* 81# 86* 101# 126*
 - 131# 156*
- 3: 9# 14# 19# 24# 34# 44# 49# 54# 64# 69# 74# 89# 94# 114# 139#
 - 144# 189#
- 4: 12* 17# 32* 37# 42* 52* 57# 62* 67# 77# 177#
- 5: 15* 20* 25* 30* 40* 55* 65* 70* 90* 95* 115* 135* 165* 175* 190*
- 6: 13# 18* 23# 28* 33# 38* 43# 68* 103# 108* 113# 153# 178*
- 7: 16# 26# 56# 66# 141# 166#
- 8: 24* 29# 34* 64* 69# 84* 104*
- 9: 42# 67# 102# 122# 142#
- 10: 30* 55* 80* 105* 180*
- 11: 23# 28# 48# 68# 168#
- 12: 26* 36* 91# 131#
- 13: 29#
- 14: 132*
- 15: 45* 70* 120* 170*
- 16: 48*
- 20: 60* 85*
- 24: 72*
- 25: 75* 100*
- 30: 140* 165*
- 40: 120*
- 55: 115*

80 = 111 * 80 # 271 Total

2-15

															Page	80	
Modulus	201,		Period												136		
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*		
	16	17	18*	19	20	21*	22	23	24*	25	26	27*	28	29	30*		
	31	32	33*	34	35	36*	37	38	39*	40	41	42*	43	44	45*		
	46	47	48*	49	50	51*	52	53	54*	55	56	57*	58	59	60*		
	61	62	63*	64	65	66*	67*	68	69*	70	71	72*	73	74	75*		
	76	77	78*	79	80	81*	82	83	84*	85	86	87*	88	89	90*		
	91	92	93*	94	95	96*	97	98	99*	100							
1:	4	6	7	8	9	10	11	12	13	15	16	18	19	20	21		
	22	24	25	26	27	28	29	30	32	33	34	37	38	39	41		
	42	44	45	46	47	49	50	53	54	55	60	63	65	66	67		
	68	70	71	73	74	75	76	78	79	83	84	85	86	87	88		
	91	95	97	98	99	103	104	105	107	111	112	113	114	115	116		
	117	118	119	121	122	124	127	128	130	131	132	133	134	135	137		
	142	144	152	153	158	161	163	164	165	167	168	170	172	173	174		
	175	177	178	180	182	183	184	186	189	191	194	195	198				
2:	16	18	22	23	25	30	31	33	38	40	41	44	47	48	50		
	53	54	58	59	61	63	64	67	68	78	82	90	92	98	105		
	106	108	121	125	126	135	136	139	140	142	145	149	150	152	153		
	155	156	159	163	165	170	172	181	187								
3:	17	19	34	49	76	86	101	118	128	155	185	187					
4:	49	69	71	79	126	134	136	156									
5:	23	61	145	183													
8:	67	142															
264 =		34 *		0 #		298 Total											

Modulus	202,		Period												150		
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15		
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*		
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45		
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*		
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75		
	76*	77	78*	79	80*	81	82*	83	84*	85	86*	87	88*	89	90*		
	91	92*	93	94*	95	96*	97	98*	99	100*	101*	102*	103	104*	105		
	106*	107	108*	109	110*	111	112*	113	114*	115	116*	117	118*	119	120*		
	121	122*	123	124*	125	126*	127	128*	129	130*	131	132*	133	134*	135		
	136*	137	138*	139	140*	141	142*	143	144*	145	146*	147	148*	149	150*		
	151	152*	153	154*	155	156*	157	158*	159	160*	161	162*	163	164*	165		
	166*	167	168*	169	170*	171	172*	173	174*	175	176*	177	178*	179	180*		
	181	182*	183	184*	185	186*	187	188*	189	190*	191	192*	193	194*	195		
	196*	197	198*	199	200*	201											
1:	4	6	7	8	10	11	15	17	18	19	21	22	23	24	28		
	29	30	34	37	39	44	47	49	57	58	62	63	65	68	72		
	73	74	77	78	79*	80	81	83	84	85	87	91	92	95	96		
	98																
2:	5	8*	9	12*	14*	16*	20*	22*	23	25	30*	34*	35	36*	38*		
	42*	43	44*	45	46*	47	48*	56*	57*	58*	59	60*	65	67	68*		
	69	74*	78*	87	88*	89	91	94*	98*	113	114*	116*	117	121	123		
	124*	126*	130*	135	136*	137	139	143	144*	145	146*	147	148*	154*	156*		
	158*	160*	162*	166*	168*	170*	174*	175	179	182*	184*	190*	192*	195	196*		
	199																
3:	12	20	21	29	31	33	41	47	57	73	83	87	88				

246

Modulus 202 (continued)

4:	10*	13*	17	18*	24*	32*	33	37	40*	44*	46*	50*	55	68*	70*
	72*	75	76*	84*	88*	87	88*	90*	92*	94*	96*	114*	118*	130*	134*
	138*	148*	156*	171	178*	182*	188*	196*							
5:	37	40	51	62	82	84									
6:	24*	40*	42*	58*	62*	66*	75	82*	94*	114*	146*	166*	174*	176*	
8:	20*	26*	34*	66*	74*	110*	127*	140*	174*						
10:	74*	80*	102*	124*	164*	168*	175								
12:	150*														
16:	52*														
20:	148*														
202 =		207 *			4 #		413 Total								

Modulus 203, Period 112

0:	1	2	3	4	5	6	7*	8	9	10	11	12	13	14*	15
	16	17	18	19	20	21*	22	23	24	25	26	27	28*	29*	30
	31	33	34	35*	36	37	38	40	41	42*	43	44	45	47	48
	49*	50	51	52	54	55	56*	57	58*	59	61	62	63*	65	66
	68	69	70*	72	73	75	76	77*	79	80	82	83	84*	86	87*
	90	91*	93	94	97	98*	100	101	104	105*	107	108	111	112*	114
	115	118	119*	122	125	126*	129	132	133*	136	139	140*	143	147*	150
	154*	157	161*	164	168*	171	175*	182*	189*	196*					
1:	3	4	5	6	7	8	10	11	12	13	16	17	18	20	21
	22	23	24	25	26	28	30	31	33	34	35	37	38	39	41
	42	44	46	47	48	49	51	52	53	54	55	56	62	63	65
	66	70	74	76	80	81	83	84	88	91	94	95	97	102	104
	105	108	109	111	115	119	122	123	126	129	136	143	151	154	158
	165	168	179	186	200										
2:	5	6	7	8	11	12	13	16	19	20	22	23	24	26	27
	29	34	35	36	37	39	41	42	45	48	49	50	52	53	55
	56	60	62	63	66	67	69	70	74	78	81	83	84	88	92
	94	95	98	99	102	106	108	112	113	123	127	133	140	162	165
	169	190	197												
3:	7	8	9	10	11	13	15	17	19	20	21	22	23	32	36
	38	41	46	47	50	52	53	59	61	64	73	74	75	84	85
	95	99	102	105	112	113	123	131	137	138	152	162	166	169	
4:	9	10	11	12	15	19	21	26	31	38	44	51	52	53	58
	61	68	70	72	77	78	96	106	110	135	138	159	177		
5:	11	13	17	18	20	21	30	34	39	40	41	47	51	54	58
	60	69	71	74	78	81	82	83	103	106	118	139	156		
6:	15	18	21	23	44	46	61	103	118	128	139				
7:	17	19	28*	30	35*	42*	48	49*	56*	70*	84*	91*	119*	126*	140*
	154*	161*	168*	182*											
8:	17	18	47	52	62	76	88	104							
9:	19	21	27	29	69										
10:	78														
11:	31														
12:	30														
13:	36														
14:	35*	49*	56*	77*	84*	112*	133*	140*	161*	168*	182*				

Modulus 203 (continued)

15: 122
 21: 49* 105* 119* 147*
 28: 63* 133*
 35: 77*
 56: 126*
 360 = 65 * 0 # 425 Total

Modulus 204, Period 72

0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17*	18*	19	20*	21*	22*	23	24*	25	26*	27*	28*	29	31
	32*	33*	34*	35	36*	37	38*	39*	40*	41	42*	43	44*	45*	46*
	47	49	50*	51*	52*	53	54*	55	56*	58*	59	61	62*	64*	65
	67	68*	71	72*	74*	77	80*	83	86*	89	92*	95	98*	101	102*
	104*	105*	107	110*	111*	113	116*	117*	119*	122*	123*	125	128*	129*	131
	134*	135*	141*	147*	153*										
1:	3	4	5	6	7	8	9	10	11	12	14	15	16	17	18
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	34
	37	38	39	40	41	43	44	46	49	50	51	52	53	54	55
	56	57	58	59	60	61	62	63	64	65	66	67	68	71	72
	73	75	76	77	78	79	80	82	83	84	85	87	88	89	90
	91	92	94	95	96	97	98	99	102	103	105	106	107	109	110
	111	112	115	117	118	119	121	123	126	128	130	132	133	134	135
	137	139	140	141	143	145	146	147	149	150	151	153	154	155	156
	157	160	161	162	163	164	166	167	171	174	175	177	179	183	186
	187	189	191	194	196	197	198	200	201	202					
2:	5	6*	7	8*	9	10*	11	12*	13	14*	16*	18*	20*	21	22*
	27	28*	29	30*	32*	34*	36*	40*	42*	43	45	46*	48*	49	50*
	51	52*	53	56*	57	59	60*	61	62*	63	64*	65	69	73	74*
	76*	77	78*	80*	81	82*	86*	88*	89	91	95	97	98*	102*	104*
	108*	110*	111	113	115	116*	117	118*	119	120*	121	122*	124*	125	127
	128*	129	130*	131	133	141	144*	145	146*	149	150*	152*	154*	157	161
	163	165	168*	170*	171	174*	179	181	182*	185	187	188*	189	190*	192*
	193	195	196*	197	198*	201									
3:	7	8	9*	10	12*	15*	16	17	18*	19	21*	22	23	24*	26
	27*	28	29	30*	31	33*	36*	38	40	41	42*	45*	47	48*	50
	51*	56	57*	59	60*	63*	64	68	69*	71	72*	75*	78*	81*	84*
	87*	90*	92	93*	95	96*	98	110	113	114*	116	117*	122	123*	129*
	150*	153*	159*	165*	174*	180*	186*	192*	195*	198*					
4:	11	12*	14*	15	16*	18*	19	21	22*	24*	26*	27	28*	35	36*
	44*	47	49	51	54*	56*	58*	59	61	63	67	69	71	73	79
	81	84*	86*	87	92*	95	96*	104*	105	117	118*	119	121	122*	126*
	127	131	138*	145	147	151	154*	160*	163	169	172*	175	181	182*	187
	189	190*	199												
5:	16	17	19	26	30	32	40	41	43	46	47	54	56	67	73
	83	84	85	92	95	97	102	104	108	114	119	122	124	136	138
	151	155	158	163	190	194	198								
6:	13	14*	15*	16*	17	18*	19	21*	24*	27*	30*	36*	39*	42*	48*
	53	54*	61	63*	66*	81*	84*	87*	96*	102*	120*	128*	129*	135*	147*
	150*	153*	156*	159*	168*	171*	177*	180*	183*	186*	195*				
7:	19	20	23	28	30	35	36	45	51	55	58	68	72	83	96
	111	112	123	128	143	155	166	180	182	183	188				
8:	17	23	32*	48*	53	134*	146*								

Modulus 204 (continued)

9:	19	21*	25	30*	48*	51*	52	57*	58	66*	69*	72*	84*	87*	113
	114*	126*	135*	144*	168*	177*									
10:	34*	89	112*	141	166*										
11:	69	95	104	111	171										
12:	33*	36*	38*	42*	43	48*	54*	55	65	84*	108*	162*	189*		
13:	49														
15:	48*	138*	162*												
16:	64*														
17:	51*	85*													
18:	51*	63*													
19:	84														
	384 =	265 *	0 #	649 Total											

Modulus 205, Period 40

0:	1	2	3	4	5*	6	7	8	9	10*	11	12	13	14	15*
	16	17	18	19	20*	21	22	24	25*	26	27	29	30*	31	32
	34	35*	36	37	39	40*	41*	42	43	44	45*	47	48	49	50*
	52	53	54	55*	57	58	59	60*	62	63	65*	67	68	70*	72
	73	75*	77	78	80*	83	85*	86	88	90*	91	93	95*	96	98
	100*	101	103	106	108	111	113	116	118	121	124	126	129	131	134
	136	139	141	144	149	154	159	167	172	177	182				
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	19	20	21	22	23	24	26	27	28	29	30	31	32	33
	34	35	36	37	38	39	40	41	43	44	45	46	47	48	51
	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
	67	68	69	71	72	73	74	75	76	77	78	79	81	83	84
	85	86	87	88	89	90	91	92	93	95	96	98	99	100	101
	103	105	106	107	108	110	111	113	114	115	116	117	118	119	121
	122	123	124	125	127	128	129	130	131	132	133	135	137	139	140
	141	142	143	144	145	146	147	149	150	151	152	153	154	155	156
	157	158	159	160	161	162	164	165	166	167	168	169	170	171	172
	173	174	175	176	177	178	179	180	182	183	184	185	186	187	188
	189	190	191	192	194	195	196	197	198	199	200	201	202	203	
2:	6	7	8	9	10	11	12	14	16	17	18	20	21	22	23
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
	39	42	43	44	45	46	48	49	51	53	54	55	57	58	59
	60	61	62	64	65	66	68	69	71	72	73	74	75	76	77
	78	82	85	86	87	88	89	90	91	92	93	95	96	99	101
	103	104	105	107	108	109	111	112	114	115	117	118	119	120	123
	124	126	129	130	131	132	133	134	135	139	141	143	144	145	147
	149	150	151	152	153	156	158	159	162	165	166	167	168	169	170
	171	172	173	174	175	177	178	180	182	183	184	185	186	187	189
	190	191	192	193	195	196	197	198	199	200	201	202			
3:	7	9	10	11	12	13	15	17	18	19	20	22	26	27	30
	31	32	33	34	36	37	38	40	42	43	48	50	51	53	54
	55	58	59	60	61	63	64	65	66	70	71	72	74	76	79
	80	82	83	89	90	91	92	93	94	95	96	100	104	105	106
	109	111	112	113	114	115	116	117	118	119	120	124	125	127	132
	134	136	137	138	140	142	143	145	146	148	149	154	157	158	160
	163	166	168	170	171	172	176	177	178	179	181	186	187	189	190
	191	193	194	195	196	198	199	201							

Modulus	205	(continued)												Page	84
4:	9	11	12	13	16	19	20	23	24	27	28	29	31	33	35
	36	37	41	43	44	47	50	52	56	57	58	59	61	62	63
	64	67	68	70	72	78	84	86	90	93	95	98	106	107	111
	113	114	116	118	119	120	124	125	127	129	131	133	138	139	145
	146	148	150	151	152	154	155	159	164	165	167	170	173	174	176
	179	181	184	185	186	189	190	191	192	195	197	198			
5:	12	16	17	18	19	20*	21	22	25*	26	27	30*	31	32	34
	35*	39	40*	41	42	44	46	50*	51	52	54	55*	56	58	62
	69	70*	71	72	73	77	78	83	84	88	93	95*	97	99	106
	107	108	109	113	115*	117	122	123	127	128	130*	133	137	138	140*
	141	142	143	152	153	154	156	158	159	164	165*	168	169	175*	176
	178	179	180*	184	185*	186	188	192	193	198	199				
6:	13	14	18	19	20	21	24	25	26	27	30	31	33	34	43
	53	54	60	62	63	67	68	69	71	72	74	76	84	85	89
	93	96	103	106	108	110	115	116	121	122	126	128	130	132	137
	139	142	144	147	148	149	151	153	157	160	164	166	169	173	177
	178	180	181	183	184	185	187	190	191	192	193	197			
7:	18	20	23	24	28	29	34	36	40	41	42	46	48	49	55
	58	61	63	66	67	71	72	77	84	85	86	90	91	95	98
	103	105	107	110	125	128	129	136	140	141	142	149	154	157	163
	166	167	170	171	172	173	174	178	182	183	184	188	189	192	196
8:	17	18	22	23	26	32	33	35	40	43	48	49	53	56	57
	58	61	71	79	85	87	88	94	97	103	104	105	113	125	126
	128	129	135	143	156	163	167	168	172	173	179	180	185	190	191
	196														
9:	19	25	32	35	39	41	44	52	60	68	95	96	106	111	122
	126	140	143	146	152	155	165	167	170	172	175	176	177	178	187
	189	195													
10:	21	29	40*	42	49	50*	51	54	59	79	80*	107	108	110*	125*
	146	156	163	165*	171	191	194								
11:	23	28	29	51	56	58	66	78	89	93	105	107	109	111	127
	129	139	149	170	175	180	181	187	188	191					
12:	28	39	60	106	108	109	141	142	152	163	167	168	177	186	189
	192														
13:	30	49	54	59	67	82	92	93	107	108	110	140	164	181	183
	188														
14:	38	37	84	103	135	137	141	144	180	190					
15:	36	51	123												
16:	36	52	53	64	66	86	112	122	142	187					
17:	35	43	48	141	171	187									
18:	64	75	78	82	145	151	173								
19:	87	111	148	149	180										
21:	69	79	80												
22:	156														
24:	79	120													
27:	132														
32:	133														
41:	123*														
100R =	44 *					0 #			1052	Total					

													Page	86	
Modulus	207	(continued)													
4:	9	10	11	13	16	17	19	20	22	23	25	26	27	30	35
	38	40	41	42	44	45	49	51	52	56	57	59	63	64	68
	69	71	73	76	77	78	79	80	83	85	86	88	90	92	94
	96	98	99	100	107	108	112	113	114	115	117	119	120	121	126
	128	129	132	133	138	142	145	146	148	151	152	154	156	158	159
	163	166	170	171	176	180	181	183	184	187	189	191	192	194	195
	198	200	201	202											
5:	11	14	15	16	17	18	19	20	22	26	32	33	41	42	48
	51	54	55	62	73	74	79	81	82	84	85	87	89	95	100
	105	106	107	108	110	115	117	123	124	125	128	129	130	132	138
	139	141	142	148	153	154	156	158	160	161	164	166	169	170	173
	179	180	186	193	197	198	201								
6:	20	23	24*	25	27*	31	32	43	44	50	53	54*	58	63*	64
	68	70	71	73	77	82	86	90*	96*	99*	104	110	117*	122	123*
	131	132*	141*	143	145	155	159*	161	170	171*	183*	186*	189*	190	193
	196														
7:	18	24	26	27	32	35	36	40	43	51	52	60	61	62	77
	83	85	88	93	97	104	106	109	111	113	126	129	131	141	144
	152	163	165	172	173	179	186	196	197						
8:	17	19	22	34	35	40	51	57	70	76	85	88	89	98	104
	105	111	112	114	126	128	152	154	158	159	167	170	175	181	183
	188	193	195	197	198										
9:	29	52	60*	61	76	77	80	87*	88	94	105*	128	136	149	185
10:	27	30	32	38	40	44	47	49	57	82	89	105	108	109	110
	113	125	131	148	162	165	168	174	187	189					
11:	25	28	32	51	117	141	148	165	166	167	180	192			
12:	37	46	48*	65	75*	116	135*	164	171*	172	192*				
13:	43	58	68	110	162										
14:	81	86	123	137	186										
15:	37	45*	48*	165*	176	181									
18:	49	104	188												
19:	39	46	83	162	187										
22:	50														
	792 =	103 *	0 #	895 Total											

Modulus	208,	Period 168													
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13*	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	31
	32*	33	34*	35	36*	37	39*	41	42*	43	44*	45	47	49	50*
	51	52*	53	54*	55	56*	57	58*	59	61	62*	63	64*	65*	66*
	67	69	70*	71	73	74*	75	77	78*	79	81	83	85	86*	87
	89	91*	93	94*	95	97	99	101	102*	103	104*	108*	110*	116*	118*
	124*	126*	132*	140*	148*	156*	162*	170*	178*						
1:	3	4	5	6	7	9	10	11	12	13	14	16	17	18	19
	20	21	22	23	24	27	28	29	31	33	35	37	38	42	43
	45	46	48	50	51	54	55	56	59	61	63	67	69	74	77
	81	82	85	86	87	89	91	94	95	99	102	110	111	113	121
	123	125	126	131	137	139	142	147	149	150	152	155	160	163	171
	190	195	203												

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Modulus 208 (continued)

2:	5	6*	8*	9	10*	12*	13	14*	17	18*	20*	21	24*	26*	27
	28*	32*	33	34*	36*	38*	40*	42*	44*	46*	53	54*	58*	62*	65
	66*	69	70*	71	76*	84*	86*	90*	92*	96*	102*	110*	112*	118*	134*
	162*	172*	182*	188*	198*										
3:	7	8	10	15	17	20	22	23	25	27	28	35	38	39	42
	46	48	49	56	59	60	61	64	65	67	72	73	81	97	99
	106	138	153	169	177	185	201	203							
4:	10*	12*	16*	18*	20*	26*	28*	29	34*	39	40*	42*	43	54*	55
	64*	66*	72*	91	92*	93	95	106*	124*	130*	138*	142*	168*		
5:	11	15	16	20	76	84	115								
6:	14*	16*	30*	34*	44*	47	54*	70*	96*	98*	112*	130*	146*	162*	194*
	198*														
7:	36	67													
8:	24*	32*	40*	58*	78*	84*	110*	182*	186*						
10:	22*	40*													
12:	28*														
13:	39*	52*	65*	143*											
16:	48*	64*	80*												
26:	76*	104*													

192 = 147 * 0 # 339 Total

Modulus 209, Period 90

0:	1	2	3	4	5	6	7	8	9	10	11*	12	13	14	15
	16	17	18	19*	20	21	22*	23	24	25	26	27	28	29	30
	31	32	33*	34	35	36	37	38*	39	40	41	42	43	44*	45
	46	47	48	49	50	51	52	53	54	55*	56	57*	58	59	60
	61	62	63	64	65	66*	67	68	69	70	71	72	73	74	75
	76*	77*	78	79	80	81	82	83	84	85	86	87	88*	89	90
	91	92	93	94	95*	96	97	98	99*	100	101	102	103	104	105
	106	107	108	109	110*	111	112	113	114*	115	116	117	118	119	120
	121*	122	123	124	125	126	127	128	129	130	131	132*	133*	134	135
	136	137	138	139	140	141	142	143*	144	145	146	147	148	149	150
	151	152*	153	154*	155	156	157	158	159	160	161	162	163	164	165*
	166	167	168	169	170	171*	172	173	174	175	176*	177	178	179	180
	181	182	183	184	185	186	187*	188	189	190*	191	192	193	194	195
	196	197	198*	199	200	201	202	203	204	205	206	207	208		
1:	4	5	8	9	10	12	13	14	15	16	17	18	19	20	22
	23	24	26	27	30	32	34	37	40	41	43	47	48	50	52
	53	55	56	57	58	59	60	61	64	72	74	76	81*	86	87
	90	91	92	93	94	102	103	107	109	111	116	118	119	122	124
	125	126	129	136	137	138	140	147	148	149	151	157	160	162	167
	173	185	186	193	195	200	202	206							
2:	5	7	8	10	11	13	16	18	19	23	24	26	27	28	29
	30	35	36	37	38	39	40	41	44	46	48	52	55	59	63
	64	65	67	71	74	80	82	83	85	86	93	94	96	97	100
	105	108	111	116	122	125	137	161	162*	172	177	180	181	182	184
	188	191	195	206											
3:	7	8	12	13	19	20	25	27	29	30	32	34*	35	36	39
	42	46	51	53	54	62	64	67	69	73	89	96	101	102	111
	139	141	142	145	146	150	156	161	168	178	182	183	199	205	

Modulus	209	(continued)													
4:	10	11	13	15	20	22	23	26	32	35	48	52	53	58	65
	80	88	109	113	130	134	141	148	151	155	166	167	173	177	181
	186	200													
5:	14	25	32	33	43	51	56	80	89	91	100	110	118	124	127
	132	138	164	173	183	202									
6:	13	24	35	38	54	68#	69	72	73	83	91	108	113	124	134
	146	155	157	189	202										
7:	17	18	25	26	27	29	40	75	87	91	93	119	158	199	
8:	17	33	40	44	59	73	77	106	125	137	153	160			
9:	20	87	108	117											
10:	39	119	137												
11:	23	28	55*	57	165*										
14:	50	163													
19:	76*	152*													
22:	110*														
38:	152*														
	478 =	34 *	4 #	516 Total											

Modulus	210,	Period 240													
0:	1	2*	3*	4*	5*	6*	7*	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25*	26*	27*	28*	29	30*
	31	32*	33*	34*	35*	37	38*	39*	40*	41	42*	44*	45*	46*	47
	48*	49*	51*	52*	53	54*	55*	56*	58*	59	60*	61	62*	66*	67
	68*	69*	70*	73	74*	75*	76*	80*	81*	82*	83	87*	88*	89	90*
	91*	95*	96*	97	102*	103	104*	105*	109	110*	111*	112*	116*	117*	118*
	124*	125*	131	132*	133*	138*	139	145*	146*	153*	160*	167	174*		
1:	3#	4	5	6	7	8#	9	11	13#	14	15	16	17	18#	19
	23#	24	25	26	27	28#	30	32	33#	34	35	36	37	38#	39
	40	43#	45	46	47	48#	49	50	51	53#	57	58#	59	60	61
	63#	66	67	68#	70	72	73#	74	76	78#	79	80	81	82	83#
	87	88#	89	90	91	93#	95	98#	99	100	101	102	103#		
2:	5	6*	7	8*	9	10*	11#	12*	14*	16*	18*	21#	22*	26*	28*
	29	30*	31#	32*	34*	36*	38*	39	46*	47	48*	50*	51#	52*	54*
	56*	60*	61#	64*	66*	68*	70*	71#	72*	74*	76*	78*	80*	81#	86*
	89	90*	91#	92*	93	94*	96*	98*	100*	101#	102*	106*	111#	113	114*
	116*	118*	120*	121#	122*	123	126*	131#	132*	134*	135	136*	140*	141#	144*
	146*	148*	151#	152*	155	156*	158*	160*	162*	164*	165	166*	171#	174*	176*
	177	178*	180*	182*	186*	190*	191#	196*	197	198*	200*	201#	202*	204*	206*
	207														
3:	9*	14#	17	19#	24*	29#	34#	38	39*	49#	54*	59#	80	84*	94#
	99*	101													
4:	10*	12*	14*	16*	17#	18*	22*	27#	32*	36*	42*	52*	57#	58*	60*
	62*	67#	72*	77#	78*	87#	92*	94*	97#	100*	102*	117#	120*	122*	132*
	137#	140*	142*	144*	147#	162*	167#	172*	182*	184*	186*	192*	197#	202*	204*
5:	15*	20*	25*	30*	35*	45*	55*	65*	75*	80*	85*	90*	95*		
6:	13#	18*	28*	33*	34*	38*	43#	48*	58*	68*	76*	78*	83#	93*	98*
	108*	118*	133#	143#	153*	160*	163#	168*	188*	198*	202*	203#			
7:	16#	21*	26#	41#	56*	91*									
8:	19#	24*	29#	34*	54*	84*	69#	79#	84*	89#	114*	124*	129#	134*	154*
	159#	169#	174*	184*	184*										
9:	22#	32*	42*	62#	72*	77#									

4

Modulus	210	(continued)													
10:	25*	30*	40*	45*	50*	60*	70*	90*	110*	130*	145*	150*	160*	170*	180*
	190*	195*													
11:	23*	38*	68*	93*											
12:	28*	31*	56*	61*	66*	76*	81*	86*	91*	96*	116*	131*	166*	186*	196*
13:	39*	69*	79*												
14:	32*	37*	42*	52*	82*	112*	147*	182*							
15:	85*														
16:	36*	46*	53*	58*	73*	108*	128*	138*	158*	178*					
17:	41*														
18:	44*	64*	84*	124*	144*	154*									
19:	77*														
20:	50*	80*	90*	180*											
21:	63*														
22:	46*	76*	136*	186*											
23:	64*														
24:	52*	62*	122*	162*	182*										
26:	78*	138*	158*												
28:	74*	84*													
30:	170*														
32:	106*	146*													
34:	82*														
38:	154*														
42:	126*														
46:	128*														
	96 =	317 *		96 #		509 Total									

Modulus	211,	Period	42												
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
1:	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19
	20	21	22	23	24	25	26	27	29	30	31	32	33	34	35
	36	37	39	41	42	43	44	45	46	47	48	49	50	53	54
	55	56	57	59	60	61	62	64	65	66	67	69	71	73	74
	75	76	77	78	79	81	83	85	87	88	89	90	93	94	95
	96	97	98	100	101	102	103	104	108	109	110	111	112	114	115
	116	117	118	119	122	123	124	125	127	128	129	131	132	133	134
	135	136	137	138	139	141	143	145	146	147	148	150	151	152	153
	155	156	157	158	159	162	163	164	165	166	167	168	169	170	173
	175	176	177	179*	180	181	182	183	185	186	187	188	190	191	192
	193	195	196	197	199	200	201	202	203	204	205	206	207	208	

Modulus 211 (continued)

19: 51 176 179
 20: 185
 22: 54 64 153 161
 23: 139
 26: 136
 29: 74
 36: 114#

1055 = 0 * 10 # 1065 Total

Modulus 212, Period 108

0: 1 2* 3 4* 5 6* 7 8* 9 10* 11 12* 13 14* 15
 16* 17 19 20* 21 22* 23 24* 25 26* 27 29 30* 31 32*
 33 34* 35 37 39 40* 41 42* 43 44* 45 47 49 50* 51
 52* 53* 58* 60* 68* 70* 78* 88* 106* 107 109 111 113 115 117
 119 121 123 125 127 129 131 133 135 137 139 141 143 145 147
 149 151 153 155 157 159*
 1: 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18
 19 20 21 22 24 26 27 28 30 31 34 35 38 40 45
 46 47 48 49 50 51 52 53 55 56 57 58 59 60 61
 62 64 66 67 68 69 72 73 74 76 77 78 79 80 83
 87 88 90 91 93 95 97 98 99 100 101 102 104 111 113
 114 115 116 117 119 121 122 123 124 125 127 128 130 131 133
 136 137 144 146 151 152 155 156 158 159 161 163 166 167 168
 172 173 175 178 180 183 184 191 194 195 196 199 201 203 208
 210
 2: 6* 7 9 10* 12* 13 14* 16* 17 18* 20* 21 22* 24* 25
 26* 27 28* 32* 34* 35 36* 37 38* 40* 41 42* 44* 45 47
 48* 49 52* 53 54* 59 60* 61 62* 69 70* 73 76* 80* 81
 85 87 90* 91 92* 94* 95 98* 100* 101 102* 104* 106* 114* 117
 118* 122* 123 124* 125 128* 129 132* 134* 137 138* 141 145 146* 153
 154* 155 156* 157 161 163 165 167 169 176* 177 179 180* 183 194*
 197 203 204* 205
 3: 9 10 11 14 22 23 24 27 31 32 36 39 42 44 52
 53 58 59 65 67 70 74 76 82 84 88 100 110 114 133
 135 150 154 156 169 171 172 173 178 181 183 196 199 200 201
 206
 4: 12* 15 17 20* 26* 28* 29 31 32* 34* 36* 39 44* 55 56*
 64* 65 70* 71 73 76* 80* 81 89 94* 95 96* 98* 118* 121
 122* 131 135 143 146* 155 159 161 175 182* 187 191 199 201
 5: 21 25 26 30 38 52 69 80 146 179 196
 6: 18* 54* 77 81 84* 88* 130*
 7: 24 50 71 115 116
 8: 24* 30* 68* 87 149 190*
 11: 40 53 130
 12: 193

312 = 107 * 0 # 419 Total

Modulus	213,														Period	280																																																																																																																													
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*	16	17	18*	19	20	21*	22	23	24*	25	26	27*	28	29	30*	31	32	33*	34	35	36*	37	38	39*	40	41	42*	43	44	45*	46	47	48*	49	50	51*	52	53	54*	55	56	57*	58	59	60*	61	62	63*	64	65	66*	67	68	69*	70	71*	72*	74	75*	77	78*	80	81*	83	84*	86	87*	89	90*	92	93*	95	96*	98	99*	101	102*	104	105*	107	108*	110	111*	113	114*	116	117*	119	120*	122	123*	125	126*	128	129*	131	132*	134	135*	137	138*	140	141*	144*	147*	150*	153*	156*	159*	162*	165*	168*	171*	174*	177*	180*	183*	186*	189*	192*	195*	198*	201*	204*	207*	210*
1:	3	6	8	9	10	12	14	19	21	24	28	31	32	38	43	46	47	48	49	50	51	52	55	60	61	63	65	66	67	69	70	71	76	82	86	88	89	91	94	97	98	112	115	124	133	134																																																																																															
2:	6	15	19	21	24	27	33	38	42	43	64	73	85	96	100	102	111	120	138																																																																																																																										
3:	26	27*	71	189*																																																																																																																																									
4:	27	38	48	89	121																																																																																																																																								
7:	63																																																																																																																																												
8:	29																																																																																																																																												
21:	189*																																																																																																																																												
144 =	74 *	0 #	218 Total																																																																																																																																										

Modulus	214,														Period	72																																																																																																																																																		
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75	76*	77	78*	79	80*	81	82*	83	84*	85	86*	87	88*	89	90*	91	92*	93	94*	95	96*	97	98*	99	100*	101	102*	103	104*	105	106*	107*																																																							
1:	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20	21	23	24	25	26	27	28	29	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	53	54	56	57	58	59	61	62	63	64	65	66	68	69	75	76	77	78	79	80	81	83	84	86	88	89	90	91	94	97	98	99	100	101	102	103	104	105	106	107	111	112	113	114	115	116	117	118	119	121	123	124	125	126	127	128	129	132	133	134	135	136	137	138	139	140	141	143	145	146	147	148	149	151	152	153	154	156	157	158	160	161	163	165	166	167	168	169	170	171	172	175	176	177	178	180	182	183	184	186	187	188	190	191	192	194	195	196	198	201	202	204	205	207	208	209	210	211
2:	7	8*	10*	12*	13	14*	15	16*	17	19	20*	21	22*	23	24*	28*	29	31	32*	33	34*	35	36*	37	38*	40*	42*	43	45	47	49	50*	53	54*	55	56*	58*	59	62*	64*	65	66*	67	71	72*	76*	77	78*	80*	83	84*	87	88*	90*	91	92*	94*	98*	99	100*	101	103	105	107	112*	113	115	116*	117	118*	122*	124*	125	126*	128*	129	130*	133	136*	138*	145	149	150*	151	152*	154*	157	158*	160*	161	162*	163	166*	167	168*	169	171	173	176*	178*	181	182*	183	185	187	188*	193	194*	195	196*	197	199	200*	201	202*	203	204*	206*	208*	209																																										

MS

Modulus 214 (continued)

3:	10	12	14	16	18	19	20	21	23	24	26	28	29	32	33
	34	38	40	43	44	45	46	47	50	51	52	54	55	57	59
	60	62	63	67	72	73	79	81	83	86	91	92	95	96	98
	99	101	103	104	107	109	114	118	119	121	122	123	125	131	134
	136	138	139	144	145	150	154	157	158	159	160	162	166	167	171
	173	174	177	183	184	188	189	191	193	194	196	197	198	199	203
	205	207													
4:	13	15	16*	20*	30*	31	34*	39	43	44*	45	46*	53	55	58*
	62*	63	64*	65	67	75	76*	85	86*	90*	91	95	97	100*	101
	103	107	108*	110*	118*	121	123	127	128*	132*	133	142*	143	144*	151
	152*	153	156*	160*	163	165	173	174*	175	179	184*	187	188*	198*	202*
	203	205													
5:	16	18	19	23	26	31	34	37	38	42	55	56	64	65	84
	91	97	101	118	128	130	135	154	155	163	164	177	181	185	188
	193	200	201	203											
6:	21	25	28*	38*	45	48*	51	58*	73	86*	93	99	100*	120*	121
	126*	127	134*	147	162*	169	172*	175	192*	195	199				
7:	30	31	35	41	43	56	86	135	148	165	186	190			
8:	27	43	88*	90*	92*	134*	179	195							
9:	52	54	72	151	169	171									
10:	39	53													
11:	57	168													
13:	83	144													
16:	83	145													
477 =			160 *			0 #			637	Total					

Modulus 215, Period 440

0:	1	2	3	4	5*	6	7	8	9	10*	11	12	13	14	15*
	16	17	18	19	20*	21	22	23	25*	26	27	28	30*	31	32
	33	35*	36	37	38	40*	41	42	43*	44	45*	46	47	49	50*
	51	52	54	55*	56	57	59	60*	61	62	64	65*	66	69	70*
	71	74	75*	76	79	80*	81	84	85*	88	89	90*	93	94	95*
	98	99	100*	103	104	105*	108	109	113	114	118	119	123	124	128
	132	133	137	138	142	143	147	148	152	157	162	167	176	181	186
	191														
1:	3#	8#	13#	18#	23#	28#	33#	38#	43#	48#	53#	58#	63#	68#	73#
	78#	83#	88#	93#	98#	103#	108#	118#	138#	158#	163#	168#	173#	178#	193#
	203#	208#	213#												
2:	6#	11#	16#	21#	26#	31#	36#	41#	46#	56#	61#	71#	96#	106#	116#
	121#	131#	141#	156#	191#	201#									
3:	19#	24#	34#	44#	54#	59#	64#	99#	104#	109#	129#	159#	194#	199#	209#
4:	17#	22#	32#	47#	67#	77#	92#	122#	187#						
6:	93#	103#	108#												
7:	31#	56#													
9:	132#														
43:	129#														
84 =			23 *			84 #			191	Total					

														Page	98	
Modulus	218,		Period											108		
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	14*	15	16*	
	17	18*	19	21	22*	23	24*	25	28*	29	30*	31	32*	35	36*	
	37	38*	41	42*	43	44*	48*	49	50*	51	55	56*	57	62*	63	
	64*	69	70*	75	76*	82*	83	89	96*	109*						
1:	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18	
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
	36	37	38	39	40	41	42	44	45	46	47	48	49	50	51	
	53	54	55	57	58	59	60	61	62	63	64	65	67	68	70	
	71	73	74	75	76	77	78	79	82	83	85	86	87	88	89	
	91	93	95	96	98	99	102	103	104	105	106	108	109	112	113	
	114	115	116	118	120	121	122	123	125	126	127	128	129	132	133	
	137	138	140	141	143	144	148	149	152	153	154	155	157	159	160	
	162	163	164	166	168	169	170	172	173	178	179	181	183	184	189	
	191	192	195	196	197	198	199	200	202	204	205	208	209	212	215	
2:	6*	7	8*	9	10*	12*	14*	15	16*	17	21	22*	23	25	28*	
	29	30*	34*	36*	38*	40*	41	42*	43	44*	45	46*	48*	53	54*	
	55	56*	57	58*	59	62*	63	64*	66*	72*	74*	75	77	78*	80*	
	81	83	84*	88*	89	91	92*	96*	98*	99	100*	102*	103	105	106*	
	110*	114*	115	117	118*	120*	121	126*	128*	129	130*	131	137	139	140*	
	143	150*	157	163	164*	165	170*	172*	174*	177	179	182*	186*	191	192*	
	195	198*	199	203	205	206*	211	212*								
3:	13	23	24	25	26	29	31	35	37	40	41	45	46	49	52	
	53	56	60	65	67	74	81	83	94	95	98	104	106	109	110	
	123	127	128	132	134	135	138	140	147	161	162	165	174	176	180	
	181	183	186	192	195											
4:	12*	14*	16*	18*	19	21	24*	27	30*	46*	55	56*	60*	63	67	
	72*	73	83	96*	97	110*	112*	125	126*	139	149	159	166*	167	195	
	201	203	204*	206*												
5:	15	17	22	26	27	30	31	42	44	46	56	73	89	102	121	
	134	136	150	151	177	179	192	196	206							
6:	26*	35	46*	50*	55	58*	62*	79	87	90*	112*	137	145	148*	166*	
	169	189														
7:	21	41	42	76												
8:	37	60*	92*	189												
9:	32	94														
10:	84*	113														
14:	71															
	330 =	111 *	0 #	441 Total												

Modulus	219,		Period											296		
0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*	
	16	17	18*	19	20	21*	22	23	25	26	27*	28	29	30*	31	
	32	34	35	36*	37	38	39*	40	41	43	44	45*	46	47	49	
	50	51*	52	53	54*	55	56	58	59	60*	61	62	64	65	67	
	68	69*	70	71	73*	76	78*	79	82	85	88	91	93*	94	97	
	100	103	106	109	112	115	118	121	124	127	130	133	136	139	142	
	145															
1:	3	4	6	12	15	16	17	18	20	24	25	27	30	31	32	
	33	34	35	37	39	42	44	47	50	54	56	59	62	71	76	
	77	85	88	89	91	97	100	103	107	110	115	127	130	150	162	
	180	183														

														Page	99																																																										
Modulus	221,			Period			252																																																																		
0:	1	2	3	4	5	6	7	8	9	10	11	12	13*	15	16	17*	18	20	21	22	23	25	26*	27	29	30	31	32	34*	35	36	39*	40	41	44	45	46	49	50	53	54	55	58	59	63	64	68*	69	73	77	78*	82	87	92	101																		
1:	3	4	5	6	7	9	10	11	12	14	15	16	17	18	20	21	23	26	28	29	30	31	32	36	38	40	42	43	44	45	46	55	56	57	59	60	62	65	66	68	69	70	72	77	79	81	83	94	96	98	101	106	107	111	120	123	124	125	127	130	135	145	146	151	161	162	163	164	172	181	187	196	200
2:	6	7	8	9	10	11	13	14	22	23	27	28	30	32	34	35	39	40	41	52	56	58	60	61	62	69	73	79	112	123	130	132	138	141	147	154	158	171	179	196																																	
3:	9	12	20	21	27	30	46	54	61	67	85	119	160																																																												
4:	14	22	27	33	54	61	67	73	87	112	138	171																																																													
5:	20	45	98																																																																						
7:	37																																																																								
8:	54																																																																								
9:	81																																																																								
13:	39*	52*	91*	117*																																																																					
17:	51*	68*	85*																																																																						
192 =														14 *	0 #	206 Total																																																									

Modulus	222,			Period			456																																																																																						
0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	15*	16*	17	18*	19	20*	22*	23	24*	25	26*	27*	28*	29	30*	31	32*	33*	34*	35	37*	38*	39*	40*	41	43	44*	45*	46*	47	48*	49	50*	52*	53	54*	55	56*	58*	59	60*	61	62*	64*	65	67	68*	69*	70*	71	73	74*	75*	77	80*	83	86*	89	90*	92*	95	98*	101	104*	107	110*	111*	113	116*	119	122*	125	128*	131	134*	137	140*	143	146*
1:	3	5	6	8	10	11	12	15	16	19	23	27	33	35	40	43	47	49	52	64	67	84	90	93																																																																					
2:	6*	7	9	10*	12*	16*	19	20*	22*	24*	29	30*	32*	38*	46*	54*	57	61	66*	69	70*	75	80*	86*	89	94*	98*	104*	128*	131	134*	168*	180*	186*																																																											
3:	9*	15*	18*	30*	33*	36*	45*																																																																																						
4:	11	14*	18*	32*	38*	40*	64*	114*	129	138*	150*	178*																																																																																	
6:	18*	21*	30*	36*	57*	60*	66*	72*	90*																																																																																				
8:	22*	36*																																																																																											
12:	42*	114*																																																																																											
72 =														111 *	0 #	183 Total																																																																													

Modulus	223,			Period			448																																																																																																		
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
106														107	108	109	110	111																																																																																							
111 =														0 *	0 #	111 Total																																																																																									

Modulus 225 (continued)

2:	6#	11#	21#	31#	36#	41#	51#	56#	66#	71#	81#	101#	126#	131#	141#
	176#	201#													
3:	9*	14#	19#	24*	34#	39*	44#	54*	64#	69*	84*	114*	129*	189*	
4:	12#	17#	27#	42#	102#	117#	177#								
5:	15*	40*	65*	90*	140*	165*	215*								
6:	13#	18*	28#	43#	68#	93*	103#	108*	153*	188*					
7:	31#	106#													
8:	54#	129#	204#												
9:	27*	57*	72*	117*											
10:	30*	55*	105*	180*	205*										
12:	36*	51*	81*												
15:	45*	120*	195*												
18:	39*	54*													
24:	162*														
27:	81*														
30:	90*														
45:	135*														
	60 =		88 *		60 #		208 Total								

Modulus 226, Period 228

0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	17
	18*	19	20*	21	22*	23	24*	25	26*	27	28*	33	34*	35	36*
	37	38*	39	40*	41	42*	49	50*	51	52*	53	54*	55	56*	65
	66*	67	68*	69	70*	81	82*	83	84*	97	98*	113*			
1:	3	4	5	6	8	9	10	11	12	13	14	15	18	20	21
	23	24	25	26	27	28	29	30	31	32	33	34	35	36	38
	39	41	42	43	46	47	48	49	50	51	52	53	55	57	59
	60	62	63	65	66	68	69	71	73	74	76	78	79	80	83
	85	91	93	94	96	97	101	102	103	104	109	110			
2:	6*	8*	9	10*	12*	16*	18*	20*	22*	23	24*	25	26*	28*	29
	30*	33	35	36*	37	39	40*	42*	45	46*	48*	49	50*	52*	53
	54*	56*	58*	60*	62*	64*	65	66*	68*	70*	72*	75	76*	78*	81
	82*	84*	85	86*	91	92*	94*	95	96*	97	98*	100*	102*	104*	105
	106*	107	109	110*	114*	118*	120*	121	123	124*	126*	129	130*	132*	133
	136*	137	138*	141	142*	146*	148*	152*	153	156*	158*	160*	166*	167	170*
	175	182*	183	186*	188*	189	192*	194*	195	199	202*	204*	205	206*	208*
	218*	220*													
3:	13	14	17	22	23	26	32	34	37	39	41	45	49	77	82
	92	93	96	102											
4:	12*	16*	17	18*	20*	32*	36*	37	39	40*	46*	48*	50*	56*	57
	58*	59	60*	66*	69	70*	74*	78*	80*	90*	98*	99	100*	106*	108*
	124*	140*	150*	152*	161	162*	164*	171	172*	182*	184*	190*	191	193	210*
	214*														
5:	37														
6:	26*	28*	29	34*	37	44*	46*	52*	64*	68*	74*	78*	82*	90*	98*
	154*	164*	184*	186*	192*	204*									
8:	34*	36*	74*	78*	96*	114*	116*	118*	138*	156*	160*				
10:	74*														
12:	58*	74*													
	168 =		169 *		0 #		337 Total								

Modulus	229,	Period											114		
0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
	226	227	228												
1:	6	7	10	11	12	13	16	19	20	21	23	24	25	26	29
	31	33	34	36	38	39	44	46	48	51	53	54	56	62	71
	72	79	80	81	82#	83	84	85	88	90	92	94	95	98	100
	101	103	105	106	107	108	109	111	112	119	122	123	124	125	126
	129	130	134	135	136	140	142	145	146	147	148	149	151	159	168
	174	175	176	177	179	182	184	186	191	192	194	196	197	199	200
	204	205	206	207	210	214	217	220	223	224					
2:	7	9	13	15	21	23	24	31	32	35	39	40	43	47	48
	50	51	52	55	62	63	67	68	78	88	92	96	106	107	119
	121	123	124	125	135	139	143	144	160	162	163	164#	168	176	179
	180	181	183	184	191	199	200	205	210	214	216	218	222	224	
3:	11	14	16	30	35	36	46	47	53	56	67	70	74	89	95
	98	108	118	124	142	144	162	168	176	193	197	202	214	218	
4:	26	30	41	46	57	64	80	86	97	99#	102	107	126	131	153
	169	176	191	203	219										
5:	13	36	77	104	145	170	171	172	198	212	223				
6:	28	70	94	157	190	196									
7:	20	55	116#	141	143	216									
8:	109	123													
9:	203														
	458 =		0 *			4 #									462 Total

Modulus	230,	Period											240		
0:	1	2*	3	4*	5*	6*	7	8*	9	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	21	22*	23*	24*	25*	26*	27	29	30*	31
	32*	34*	35*	36*	37	39	40*	41	42*	44*	45*	46*	47	48*	49
	50*	52*	53	54*	55*	57	58*	59	60*	62*	63	64*	65*	67	68*
	70*	72*	73	75*	77	78*	80*	82*	83	85*	87	88*	90*	93	95*
	96*	98*	100*	101	103	105*	106*	108*	110*	111	113	115*	116*	118*	121
	123	126*	128*	131	133	136*	139	141	144*	146*	149	151	154*	156*	159
	164*	169	174*	179	187	192*	197	202*							

Modulus	(continued)														
230	3#	4	5	7	8#	9	11	12	13#	14	16	18#	19	22	23#
1:	24	25	26	28#	29	31	33#	34	35	36	38#	39	40	42	43#
	48#	50	51	53#	54	55	57	58#	60	62	63#	67	68#	70	71
	72	73#	77	78#	79	81	83#	84	85	88#	89	93#	96	98#	99
	100	101	103#	104	106	110	113#	115	118#	120	121	123#	125	127	128#
	130	132	134	135	138#	142	143#	147	148#	150	151	152	157	158#	159
	160	161	163#	166	171	173#	176	178#	181	188#	193#	196	198#	203#	208#
	213#	217	218#	219	222	227	228#								
2:	6*	7	16*	26*	31#	36*	41#	46*	51#	53	56*	61#	66*	71#	76*
	86*	87	96*	99	101#	106*	111#	116*	121#	133	141#	145	146*	151#	161#
	166*	171#	176*	179	181#	186*	191#	206*	221#	225	226*				
3:	11	15	19#	29#	34#	38	39#	49#	57	64#	74#	79#	84#	89#	99#
	104#	119#	124#	126	130	134#	139#	149#	153	154#	164#	172	184#	194#	199#
	204#	214#													
4:	12*	17#	27#	32*	37#	52*	62*	67#	82*	92*	102*	112*	117#	127#	132*
	137#	142*	167#	177#	207#	217#	222*								
5:	20*	25*	35*	40*	45*	55*	60*	70*	110*	115*	130*	140*	145*	155*	165*
	175*	190*	215*												
6:	23#	53#	58*	68*	78*	98*	123#	158*	168*	183#	193#	213#			
7:	21#	26#	31#	41#	46#	51#	61#	96#	146#	161#	186#	216#	221#		
8:	34*	49#	54*	124*	159#	184*	204*	209#							
9:	37#	57#	67#	127#	142#										
10:	35*	205*													
11:	33#	58#	68#	73#	108#	183#	208#								
12:	151#	156*	181#	196*											
13:	119#	189#													
14:	62*	157#	197#												
15:	55*	170*													
16:	123#														
17:	156#														
22:	116*														
23:	69*														
46:	138*														
	132 =		137 *		132 #		401 Total								

Modulus	Period 80														
231,	1	2	3*	4	5	6*	7*	8	9*	10	11*	12*	13	14*	15*
0:	16	17	18*	19	20	21*	22*	23	24*	25	26	27*	28*	29	30*
	31	32	33*	35*	36*	37	38	39*	40	42*	43	44*	45*	46	47
	49*	50	51*	52	53	54*	56*	57*	58	59	60*	61	63*	64	65
	66*	67	70*	71	72*	73	74	77*	78*	79	80	81*	84*	85	86
	87*	88*	92	93*	94	95	98*	99*	100	101	105*	106	107	108*	113
	114*	115	119*	120*	121*	122	126*	127	128	129*	134	135*	140*	141*	142
	147*	148	149	155	156*	162*	163	168*	169	176*	183*	189*	190	197	210*

													Page	107	
Modulus	(continued)														
1:	3	4	5	6	7	8	9	10	11	13	14	15	16	17	18
	19	21	23	24	25	26	27	28	29	30	31	32	34	36	37
	38	39	40	41	42	45	46	47	48	50	51	52	53	57	58
	59	61	62	63	67	68	69	70	72	74	76	78	79	80	81
	83	87	89	90	91	95	97	98	100	101	102	103	107	108	109
	111	112	113	114	116	118	119	120	122	123	124	125	128	129	130
	131	133	135	136	139	140	141	142	144	145	147	149	150	151	152
	153	156	157	158	160	161	162	163	164	166	168	171	172	173	174
	175	177	178	179	182	183	184	185	186	188	193	195	196	197	200
	202	204	206	207	208	213	215	217	218	219	223	226	228	229	
2:	5	6	7	8	9	11	12	13	15	17	18	19	22	25	26
	27	28	29	30	33	35	38	39	41	42	46	47	48	49	50
	51	52	53	57	59	60	62	63	67	68	71	72	73	74	75
	79	81	82	83	84	85	89	90	91	92	93	94	95	96	101
	102	105	106	111	113	114	116	117	118	122	123	124	125	126	127
	133	134	135	136	137	138	139	140	144	145	152	155	156	158	159
	160	161	162	166	169	173	174	177	178	182	183	185	194	195	196
	202	204	205	206	207	214	215	216	218	221	224	226	227	228	
3:	7	8	9*	10	11	12*	13	14	17	18*	20	23	24*	25	28
	29	30*	33*	38	40	42*	45*	46	48*	50	52	53	54*	57*	59
	62	63*	64	69*	70	72*	73	74	78*	80	86	90*	92	93*	94
	95	98	101	103	106	116	117*	122	124	126*	128	133	140	155	161
	163	182	184	185	194	196	205	206	217	218	222*	226	227		
4:	10	11	12	13	14	17	19	21	25	27	31	33	37	39	41
	43	45	47	50	52	54	56	58	63	66	67	69	70	71	76
	79	81	84	85	87	96	100	101	107	111	117	118	119	120	125
	133	134	135	136	139	141	144	146	159	161	162	163	164	173	179
	188	197	199	201	212	221	222	223							
5:	11	13	14	16	17	22	25	27	32	33	36	38	43	58	66
	72	76	77	109	116	120	149	150	163	171	179	190	201	204	205
6:	13	15*	16	17	18*	20	21*	24*	25	33*	35	36*	46	55	57*
	58	66*	76	79	80	84*	95	97	100	119	123*	128	144*	157	172
	179	181	185	186*	196	203	205	212	221						
7:	16	21*	28*	35*	37	38	56*	63*	70*	77*	78	80	92	99	107
	119*	120	133*	141											
8:	17	19	21	22	28	38	39	50	54	62	71	87	91	95	100
	101	104	116	127	132	158	163	174	192	193	200				
9:	19	20	22	27*	31	33*	39*	40	54*	67	120*	156*	172	176	
10:	67	95	116	144	152	171	177								
11:	24	26	33*	35	44*	55*	58	63	66*	77*	99*	105	119	121*	129
	142	143*	152	156	165*	176*	187*	198*	202	209*	218				
12:	25	57*	141*	168*											
13:	100	134	180												
14:	42*	56*	91*	126*	127										
17:	72														
18:	54*														
21:	49*	84*	168*												
22:	55*	88*	99*	198*											
33:	187*														
42:	168*														
576 = 137 * 0 # 713 Total															

Modulus	232	(continued)													
9:	19	20	22	26	40	51	60	69	70	77	78	95	106	107	109
	163														
10:	22*	25	26*	32*	37	40*	44*	68*	80*	83	85	86*	96*	100*	102*
	104*	120*	126*	152*	158*	196*									
11:	26	34	38	39	51	58	91	155	186	202					
12:	25	28*	34*	35	42*	46*	60*	62*	65	68*	83	84*	85	98*	101
	146*	158*	162*	178*	210*										
13:	126	206													
14:	30*	34*	49	62*	92*	134*	158*								
15:	37	105													
16:	34*	38*	40*	56*	64*	66*	76*	88*	94*	96*	122*	126*	128*	150*	152*
	160*	182*	184*	192*	208*	210*									
17:	43	94													
18:	52*	80*													
20:	44*	170*													
22:	78*	102*													
24:	56*	120*	136*	168*											
29:	87*	116*													
32:	72*	152*	186*												
40:	88*														
64:	144*														
	480 =	371 *	0 #	851 Total											

Modulus	233,	Period 52													
0:	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16
	17	18	19	20	22	23	24	25	27	28	30	31	32	33	35
	36	38	40	41	43	44	46	48	49	51	53	54	56	59	61
	62	64	67	69	72	75	77	80	85	88	93	98	106		
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	33	34	35	36	37	38	39	40	41	42	43	44	45	47	48
	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
	64	65	66	67	68	69	70	71	72	73	74	75	76	78	79
	80	81	82	83	84	85	86	87	88	90	92	93	94	95	96
	97	98	99	100	101	102	103	104	105	106	107	108	110	111	112
	113	114	115	117	119	120	121	122	123	124	125	126	128	129	130
	131	132	133	134	135	136	137	138	140	141	142	143	147	148	149
	150	151	152	153	154	156	158	159	160	161	162	164	165	166	167
	169	170	171	172	173	175	176	177	178	179	180	181	182	183	184
	185	187	189	191	192	193	194	195	196	197	198	199	200	201	202
	203	204	206	207	208	209	210	211	212	213	214	215	216	217	218
	219	220	221	222	223	224	225	226	227	228	229	230			

5

		Page 110													
Modulus	233	(continued)													
2:	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	22	23	24	25	26	27	29	30	31	34	35	36	37	38	40
	41	42	43	44	45	46	47	48	49	51	52	53	54	55	56
	58	60	61	62	63	64	65	66	67	68	69	70	72	73	74
	77	78	79	80	82	83	84	85	88	90	94	95	97	98	99
	100	101	102	103	104	105	107	108	109	110	111	112	113	114	117
	118	121	122	123	124	125	126	127	128	130	131	133	134	135	136
	137	138	139	140	141	145	150	151	152	153	155	156	157	161	162
	163	165	166	167	168	169	170	171	172	173	174	175	176	179	181
	183	184	186	187	188	189	191	192	193	194	195	197	198	199	200
	201	204	205	206	208	209	210	211	212	213	215	216	217	219	220
	221	222	223	224	225	226	227	228							
3:	9	10	11	12	13	14	15	17	18	19	20	21	22	23	24
	25	28	29	30	31	33	35	36	37	38	39	41	42	44	47
	48	50	54	56	57	59	60	62	64	65	66	67	68	69	71
	72	73	74	77	78	79	80	81	84	85	90	93	96	97	99
	100	102	103	104	105	106	107	108	110	111	112	113	117	118	119
	123	124	125	126	128	129	130	131	133	134	136	137	139	140	143
	146	148	151	152	155	156	157	158	159	162	163	164	165	167	168
	169	170	171	172	174	176	177	179	182	186	188	189	192	194	195
	196	197	200	201	203	206	207	208	211	212	214	215	216	217	218
	219	221	222	223	224	225	226								
4:	12	13	14	16	17	19	20	21	22	24	26	28	29	31	32
	33	35	37	39	40	41	43	45	46	47	48	49	50	52	54
	57	58	61	67	68	71	72	77	79	80	81	82	83	86	88
	90	92	98	101	102	103	104	106	107	108	109	110	111	112	117
	119	120	125	126	128	129	130	133	134	135	136	139	145	149	151
	155	156	157	158	160	165	166	169	170	179	180	183	185	187	188
	189	190	191	194	196	197	198	200	202	204	205	208	209	211	213
	215	216	217	218	220	221	223	224							
5:	16	17	18	20	21	22	23	24	27	28	32	36	40	41	46
	47	48	49	53	57	58	61	64	67	68	70	71	72	76	77
	78	79	81	82	83	88	92	93	100	103	106	109	117	121	129
	132	135	138	146	150	155	156	157	160	161	166	167	168	170	174
	177	180	181	185	189	190	191	192	197	198	202	206	207	210	211
	214	215	216	218	221										
6:	18	19	20	22	23	24	29	30	31	35	36	38	41	45	47
	48	53	59	60	62	66	70	71	76	77	78	79	82	91	93
	94	100	105	108	109	118	119	120	121	130	131	134	139	145	146
	148	157	159	160	161	162	168	169	173	179	180	186	191	192	194
	198	201	203	204	209	210	215	216	217	219	220				
7:	22	26	31	33	36	37	39	44	45	46	50	52	53	60	63
	64	76	77	81	84	86	87	92	94	95	97	102	106	107	108
	109	120	131	132	133	134	138	143	145	146	148	154	156	159	163
	177	180	188	194	195	196	201	204	207	214	218				
8:	27	32	33	38	39	40	44	45	48	52	56	62	64	65	66
	69	75	77	78	79	80	86	94	96	99	104	108	119	133	137
	142	145	147	155	161	162	163	164	172	175	176	177	185	189	193
	196	197	201	202	203	208	209	214							
9:	27	29	36	38	45	47	54	65	79	99	100	117	121	125	142
	143	177	188	195	197	204	206	213							
10:	36	43	56	57	59	77	85	91	98	145	166	184	187	200	
11:	33	37	50	58	74	92	117	122	127	152	207				

Modulus 233 (continued)

12:	36	44	57	60	62	83	93	120	125	182	185	188	201
14:	73	74	92	121	126	128	155						
15:	56	94	154	192									
16:	51	91	99	124	158	198							
17:	52	54	88	124	126	196	198						
18:	54	90	93	161									
20:	71	72											

1044 = 0 * 0 # 1044 Total

Modulus 234, Period 168

0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13*	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25	26*	27*	28*	29	30*
	32*	33*	34*	35	36*	37	38*	39*	41	42*	43	44*	46*	47	48*
	50*	51*	52*	55	56*	57*	59	60*	61	63*	64*	65*	66*	68*	69*
	70*	72*	73	74*	75*	77	78*	79	82*	83	86*	87*	88*	91*	92*
	95	96*	97	100*	101	104*	105*	109	110*	113	114*	117*	118*	119	122*
	123*	127	128*	131	132*	136*	140*	141*	145	149	150*	154*	158*	163	167
	172*	176*	181	185	194*	203									
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	20	22	23	24	25	26	27	30	31	32	33	35	36	37
	40	41	43	45	46	47	48	49	51	57	58	61	63	64	65
	66	69	70	75	76	77	79	83	84	85	87	88	89	96	97
	99	100	101	102	109	111	114	115	117	123	124	130	132	136	137
	138	141	149	150	151	153	154	156	157	163	167	168	169	175	180
	190	193	202	210	223	228									
2:	6*	7	8*	9	10*	11	13	14*	15	18*	20*	22*	27	32*	34*
	35	41	43	44*	47	48*	60*	65	66*	67	69	72*	73	74*	86*
	87	92*	95	96*	99	105	113	117	122*	126*	131	138*	139	141	152*
	167	169	170*	171	174*	183	187	191	195	200*	209	221	222*		
3:	7	8	9*	12*	15*	21*	22	27*	28	32	33*	46	47	48*	51*
	64	66*	68	73	80	90*	97	98	104	112	133	140	163	169	176
	194	205													
4:	12*	13	14*	18*	28*	29	35	64*	70*	75	79	101	117	119	121
	132*	148*	179	184*	197	210*									
5:	11	12	28	30	56	59	64	72	74	89	107	113	147	173	
6:	18*	21*	24*	30*	42*	54*	66*	96*	102*	105*	132*	180*	211		
7:	15	73	87	135											
9:	27*	36*	45*												
12:	42*	192*													
13:	52*	65*	91*	117*	156*	169*									
18:	54*	72*	90*												

216 = 147 * 0 # 363 Total

Modulus 238 (continued)

5:	15	22	28	49	70	85	103	134	147	208	211				
6:	20*	37	49	84*	104*	161	224*								
7:	20	21*	28*	35*	42*	49*	56*	63*	77*	88	98*	112*	119*	140*	175*
	182*	196*	210*	217*											
8:	33	82*	145												
9:	19	58	126												
10:	30*	56*	171												
14:	42*	49*	56*	63*	98*	126*	189*								
288 =		135 *			0 #		423 Total								

Modulus 239, Period 238

0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
	226	227	228	229	230	231	232	233	234	235	236	237	238		
1:	16#	224													
7:	112#														
239 =		0 *			2 #		241 Total								

Modulus 240, Period 120

0:	1	2*	3*	4*	5*	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25*	26*	27*	28*	29	30*
	31	32*	33*	34*	35*	36*	37	38*	39*	40*	43	44*	45*	46*	48*
	49	50*	51*	52*	54*	55*	56*	57*	58*	60*	61	62*	63*	64*	66*
	67	68*	69*	70*	73	74*	75*	76*	78*	79	80*	81*	85*	86*	87*
	90*	91	92*	93*	97	98*	99*	103	104*	105*	109	110*	111*	114*	115*
	116*	117*	120*	121	122*	127	128*	132*	133	134*	138*	139	140*	145*	146*
	151	152*	156*	157	158*	163	169	175*	180*	181	187	193	198*	199	
1:	3#	4	5	6	7	8#	10	11	12	13#	14	15	16	17	18#
	19	20	21	22	23#	24	25	26	27	28#	29	30	31	32	33#
	34	35	36	37	38#	39	41	43#	44	45	46	48#	51	52	53#
	54	55	56	58#	59	60	61	62	63#	64	65	66	67	68#	69
	71	73#	74	75	76	78#	79	80	81	82	83#	84	85	86	87
	88#	89	90	91	92	93#	94	98#	99	100	101	102	103#	104	106
	107	108#	110	111	112	113#	114	115	118#	119	120	121	123#	124	126
	127	128#	129	130	131	132	133#	135	138#	139	143#	147	149	150	151
	152	153#	154	155	156	158#	159	160	161	162	163#	165	167	168#	169
	171	172	174	175	176	177	178#	179	181	183#	185	187	188#	193#	195

Modulus	240	1: (continued)														
	197	198#	199	200	202	203#	204	206	207	208#	209	210	211	213#	214	
	215	217	218#	219	220	222	223#	224	225	226	227	229	231	233#	235	
	238#															
2:	5	6*	8*	9	10*	11#	12*	14*	16*	17	20*	21#	22*	24*	25	
	26*	28*	29	30*	31#	33	34*	36*	37	38*	46*	51#	53	54*	57	
	58*	60*	61#	62*	64*	65	66*	68*	70*	71#	73	74*	76*	77	78*	
	81#	82*	85	86*	90*	91#	92*	93	96*	101#	102*	106*	108*	110*	111#	
	113	116*	118*	121#	122*	126*	130*	131#	132*	133	134*	138*	141#	146*	150*	
	156*	158*	160*	161#	166*	169	170*	171#	174*	176*	181#	182*	186*	188*	196*	
	197	198*	201#	204*	206*	211#	214*	217	221#	222*	226*	229	230*	231#	236*	
3:	7	9*	10	11	12*	14#	15*	17	18*	22	24*	26	28	29#	32	
	33*	34*	35	39*	40	42*	49#	54*	55	57*	58	59#	60*	63*	64#	
	65	69*	70	74#	76	80	81*	83	84*	88	89#	94#	99*	104#	105*	
	106	107	113	114*	118	122	124#	128	129*	131	132*	134#	136	138*	144*	
	153*	154#	155	161	166	169#	170	174*	176	177*	179#	184#	189*	194#	201*	
	202	203	209#	214#	218	219*	224#	225*	227	229#	232	234*				
4:	10*	12*	13	17#	18*	19	20*	21	22*	24*	27#	28*	32*	33	35	
	42*	52*	57#	58*	60*	61	67#	68*	69	72*	76*	77#	81	83	87#	
	92*	97#	102*	107#	109	115	117#	122*	129	131	132*	136*	137#	147#	152*	
	154*	157#	162*	163	165	172*	177#	179	182*	187#	197#	202*	204*	205	211	
	213	217#	222*	225	227#	232*										
5:	15*	16	19	20*	25*	30*	35*	40*	50*	55*	60*	64	67	70*	75*	
	80*	85*	90*	95*	100*	105*	110*	112	115*	120*	125*	135*	140*	150*	155*	
	160*	163	165*	170*	175*	180*	185*	195*	205*	208	211	215*				
6:	13#	18*	23#	24*	28*	30*	33*	36*	43#	48*	63*	66*	68*	73#	78*	
	84*	98*	103#	108*	114*	128*	133#	138*	162*	163#	193#	198*	210*	228*		
7:	16#	21#	36#	39	46#	51#	61#	66#	81#	87	96#	106#	111#	121#	126#	
	135	136#	166#	181#	183	186#	201#	211#	216#	226#	231#					
8:	19#	24*	29#	34*	54*	59#	64*	79#	84*	89#	99#	104*	114*	129#	139#	
	149#	154*	159#	169#	179#	189#	194*	199#	204*	219#	229#					
9:	22#	27*	42*	62#	67#	72*	77#	102*	122#	127#	142#	147*	152#	162*	167#	
	182#	192*	197#	202#	222*	227#										
10:	25*	30*	40*	45*	50*	60*	70*	80*	85*	110*	120*	125*	150*	170*	185*	
	190*															
11:	23#	28#	33#	38#	48#	53#	63#	68#	83#	103#	113#	128#	143#	148#	158#	
	168#	173#	183#	193#	208#	213#	218#	228#								
12:	26*	31#	36*	46*	51*	56*	61#	66*	81*	86*	96*	121#	126*	146*	151#	
	181#	216*														
13:	39#	44#	49#	59#	64#	79#	94#	104#	109#	124#	139#	149#	174#	189#	194#	
	199#	209#														
14:	32*	77#	87#	92*	107#	122*	127#	132*	162*	187#	192*	207#	212*	222*		
15:	35*	45*	50*	55*	60*	75*	85*	110*	130*	160*	165*	175*	200*			
16:	38*	43#	48*	58*	128*	133#	158*	168*	198*	203#	208*	213#	223#			
17:	61#	66#	91#	191#	216#											
18:	44*	54*	84*	99*	144*	204*										
19:	62#	77#	92#	97#	132#	147#	162#	207#	212#							
20:	50*	60*	65*	95*	100*	105*	165*	175*								
21:	128#	163#	203#	208#												
22:	46*	51#	56*	76*	96*	106*	126*	171#	201#							
23:	49#	54#	74#	124#	144#	154#										
24:	52*	57*	62*	72*	92*	102*	122*									
25:	80*	95*														
26:	158*	183#	193#													

Modulus 240 (continued)

27: 56# 91# 126* 186*
 28: 99# 184*
 30: 90* 120*
 31: 183#
 32: 76* 96* 121#
 33: 69* 84* 169#
 34: 137#
 35: 195*
 36: 168* 198*
 37: 121#
 42: 91#
 48: 144*
 66: 138*

256 = 385 * 256 # 897 Total

Modulus 241, Period 240

0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
1:	4	5	8	9	10	11	12	13	20	21	22	23	24	25	26
	27	29	30	31	34	37	39	42	44	45	50	51	52	53	54
	60	61	64	65	69	71	74	76	79	81	83	90	94	101	103
	106	107	108	109	112	115	116	118	123	124	130	133	134	135	136
	137	140	145	146	148	152	154	161	163	166	171	173	178	181	182
	184	188	189	190	191	194	197	198	200	205	215	217	220	222	230
	231	232	233	234	237	238									
2:	19	22	24	27	39	40	49	58	63	88	101	130	142	155	180
	203	216	219	221	224										
3:	22	36	102	107	176	208									
242 =			0 *			0 #									242 Total

Modulus 242, Period 330

0:	1	2*	3	4*	5	6*	7	8*	9	10*	11*	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33*	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55*	56*	57	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
	76*	77*	78*	79	80*	81	82*	83	84*	85	86*	87	88*	89	90*
	91	92*	93	94*	95	96*	97	98*	99*	100*	101	102*	103	104*	105
	106*	107	108*	109	110*	111	112*	113	114*	115	116*	117	118*	119	120*
	121*	122*	123	124*	125	126*	127	128*	129	130*	131	132*	133	134*	135
	136*	137	138*	139	140*	141	142*	143*	144*	145	146*	147	148*	149	150*
	151	152*	153	154*	155	156*	157	158*	159	160*	161	162*	163	164*	165*
	166*	167	168*	169	170*	171	172*	173	174*	175	176*	177	178*	179	180*
	181	182*	183	184*	185	186*	187*	188*	189	190*	191	192*	193	194*	195
	196*	197	198*	199	200*	201	202*	203	204*	205	206*	207	208*	209*	210*

Modulus 242 0: (continued)

211	212*	213	214*	215	216*	217	218*	219	220*	221	222*	223	224*	225	
226*	227	228*	229	230*	231*	232*	233	234*	235	236*	237	238*	239	240*	
241															
1:	4	8	15	19	26	30	37*	41	52	63	74	81	85	92	96
	107	118													
2:	8*	16*	19	30*	38*	41	52*	60*	63	74*	82*	104*	126*	148*	151
	162*	170*	173	184*	192*	195*	214*	236*							
4:	16*	60*	82*	104*	126*	148*									
11:	44*	88*													
22:	88*	176*	209*												
44:	176*														
	131 =	160 *		2 #											293 Total

Modulus 243, Period 648

0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19	20	21*	22	23	24*	25	26	27*	28	29	30*
	31	32	33*	34	35	36*	37	38	39*	40	41	42*	43	44	45*
	46	47	48*	49	50	51*	52	53	54*	55	56	57*	58	59	60*
	61	62	63*	64	65	66*	67	68	69*	70	71	72*	73	74	75*
	76	77	78*	79	80	81*	82	83	84*	85	86	87*	88	89	90*
	91	92	93*	94	95	96*	97	98	99*	100	101	102*	103	104	105*
	106	107	108*	109	110	111*	112	113	114*	115	116	117*	118	119	120*
	121														
	81 =	40 *		0 #											121 Total

Modulus 244, Period 60

0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	23	25	26*	27	28*	29	30*	31	32*
	33	34*	35	36*	37	38*	39	40*	41	43	45	47	49	50*	51
	52*	53	54*	55	56*	57	58*	59	60*	61*	74*	76*	78*	80*	98*
	100*	122*	123	125	127	129	131	133	135	137	139	141	143	145	147
	149	151	153	155	157	159	161	163	165	167	169	171	173	175	177
	179	181	183*												
1:	3	4	5	6	7	8	9	10	12	14	15	16	17	18	19
	20	21	22	23	24	25	27	28	29	30	31	32	33	34	35
	36	37	38	39	41	42	43	44	46	47	48	49	50	51	52
	53	54	56	59	60	61	63	64	65	66	67	68	69	70	71
	72	73	74	75	76	77	78	79	80	81	82	84	85	87	88
	89	90	91	92	93	94	95	96	98	99	100	101	102	103	104
	105	107	108	109	110	111	114	115	117	119	126	127	128	129	130
	131	132	134	135	136	137	139	140	142	143	144	145	146	147	149
	150	151	153	155	156	157	158	159	160	161	163	165	166	169	170
	171	172	173	174	175	176	178	180	181	182	183	185	187	188	189
	190	191	192	193	194	195	196	198	199	200	201	202	203	204	206
	207	208	209	210	211	212	214	216	217	218	220	222	223	224	225
	226	227	229	230	231	232	235	236	237	239	241				

Modulus	(continued)														
244	5	6*	8*	9	10*	12*	13	14*	15	16*	17	18*	19	20*	21
2:	24*	25	27	28*	29	30*	31	32*	33	34*	35	36*	37	38*	40*
	41	42*	43	44*	45	46*	47	48*	50*	53	54*	55	56*	57	58*
	59	60*	61	62*	63	65	66*	67	68*	69	70*	71	72*	73	74*
	76*	77	78*	79	81	82*	83	84*	85	86*	87	88*	89	91	93
	94*	95	96*	97	98*	99	100*	102*	104*	105	106*	107	108*	109	112*
	113	118*	120*	122*	129	130*	132*	133	134*	136*	138*	139	140*	141	142*
	144*	145	146*	147	148*	152*	153	155	156*	157	158*	159	160*	161	163
	164*	167	168*	169	170*	173	174*	176*	178*	179	180*	181	182*	183	184*
	185	187	188*	189	190*	192*	196*	199	200*	201	202*	204*	205	206*	209
	210*	211	213	215	216*	218*	220*	221	223	225	227	228*	229	230*	233
	234*	238*	239	241											
3:	7	9	10	11	12	13	15	16	18	19	20	21	22	23	24
	25	26	30	31	32	34	35	36	37	38	40	41	42	43	44
	48	49	50	51	52	55	56	57	58	60	63	66	68	69	71
	72	74	75	76	77	79	81	82	83	84	85	88	89	90	93
	94	99	101	104	105	107	109	110	111	112	115	116	123	130	132
	134	136	139	140	142	146	148	152	153	154	158	159	162	163	166
	168	170	172	176	177	178	182	183	184	188	189	190	191	197	199
	202	203	206	207	208	209	210	215	216	221	222	223	224	225	227
	228	229	230	236	237	240									
4:	9	12*	15	16*	17	20*	21	23	24*	25	29	31	32*	34*	35
	36*	38*	39	40*	41	43	45	48*	49	50*	51	53	56*	57	58*
	60*	61	62*	65	66*	68*	69	70*	72*	74*	75	76*	77	80*	82*
	83	84*	85	90*	91	92*	94*	95	97	101	103	105	106*	108*	109
	112*	113	116*	118*	122*	124*	132*	134*	135	136*	139	140*	143	145	148*
	149	152*	154*	156*	158*	164*	165	166*	167	174*	176*	178*	179	182*	183
	185	187	188*	191	195	196*	198*	201	205	209	210*	212*	214*	216*	221
	224*	225	227	231	233	239									
5:	11	15	18	19	20	23	24	29	31	32	33	34	42	47	51
	59	61	62	71	75	76	80	82	85	87	92	93	97	98	103
	108	109	111	112	118	138	140	147	151	152	153	156	167	168	169
	172	173	174	178	182	184	192	203	205	206	208	209	213	214	215
	220	223	226	228	229	231	238								
6:	13	15	18*	26*	29	30*	31	36*	37	41	42*	45	48*	49	52*
	62*	63	64*	72*	73	74*	77	80*	82*	87	93	96*	99	100*	105
	110*	112*	114*	138*	141	148*	150*	151	152*	164*	165	168*	170*	173	175
	176*	186*	187	188*	197	198*	202*	214*	219	221	231	237			
7:	15	17	21	23	24	28	30	31	32	34	37	38	39	42	43
	44	50	51	53	64	66	75	79	83	84	86	97	98	99	111
	113	123	127	130	138	140	148	150	153	154	169	176	183	185	186
	201	203	204	209	212	213	219	220	225	227	228	229			
8:	21	24*	27	29	40*	42*	46*	53	59	61	64*	68*	69	72*	83
	90*	100*	103	114*	122*	151	155	167	180*	184*	188*	199	206*	210*	211
	229	235													
9:	21	27	28	31	35	37	48	49	60	79	82	83	104	105	114
	171	180	181	198	200	207	216	218	225	232					
10:	21	30*	36*	41	49	53	58*	61	62*	68*	71	79	83	91	94*
	101	152*	161	184*	186*	196*	218*								
11:	36	46	84	86	182	220	228								
12:	36*	52*	58*	60*	82*	128*	198*								
13:	35	138	164	212											
14:	39	47	59	62*	64*	81	100*	194*	196*	199					

Modulus 244 (continued)

15:	57	58	69	110	190	209
16:	43	225				
17:	93	131				
18:	37	54*	98*	205		
20:	60*					
22:	75					
24:	65					

744 = 251 * 0 # 995 Total

Modulus 245, Period 560

0:	1	2	3	4	5*	6	7*	8	9	10*	11	12	13	14*	15*
	16	17	18	19	20*	21*	22	23	24	25*	26	28*	29	30*	31
	33	34	35*	36	38	39	40*	41	43	44	45*	46	48	49*	50*
	51	52	53	55*	56*	57	58	60*	61	62	63*	65*	66	67	68
	70*	71	72	73	75*	77*	78	80*	82	83	85*	87	88	90*	92
	93	95*	97	99	100*	102	104	105*	107	109	110*	112*	114	115*	117
	119*	120*	122	124	127	129	132	134	137	139	142	144	149	151	154*
	156	159	161*	164	166	169	171	176	181	186	191	198	203*	208	213
	218														
1:	3#	8#	13#	18#	23#	28#	33#	38#	43#	48#	58#	63#	68#	73#	78#
	83#	93#	98#	103#	108#	113#	118#	133#	138#	143#	148#	168#	173#	178#	183#
	203#	208#	213#	218#	238#	243#									
2:	11#	16#	21#	26#	31#	46#	51#	56#	61#	66#	81#	86#	91#	96#	101#
	116#	121#	136#	156#	161#	171#	191#	196#	206#	226#	231#	241#			
3:	14#	24#	49#	59#	84#	94#	119#	129#	154#	164#	189#	199#	224#	234#	
4:	27#	62#	97#	132#	167#	202#	237#								
7:	21*	56*	91*	126*	196*	231*									
14:	77*	112*	217*												
21:	98*	168*													
28:	189*														
49:	147*														

84 = 50 * 84 # 218 Total

Modulus 246, Period 120

0:	1	2*	3*	4*	5	6*	7	8*	9*	10*	11	12*	13	14*	15*
	16*	17	18*	19	20*	21*	22*	23	24*	25	26*	27*	28*	29	30*
	31	32*	33*	34*	35	36*	37	38*	39*	40*	41*	42*	43	44*	45*
	46*	47	48*	49	50*	51*	52*	53	54*	55	56*	57*	58*	59	60*
	61	62*	63*	64*	65	66*	67	68*	69*	70*	71	72*	73	74*	75*
	76*	77	78*	79	80*	81*	82*	83	84*	85	86*	87*	88*	89	90*
	91	92*	93*	94*	95	96*	97	98*	99*	100*	101	102*	103	104*	105*
	106*	107	108*	109	110*	111*	112*	113	114*	115	116*	117*	118*	119	120*
	121	122*	123*												
1:	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19
	20	21	22	23	25	26	27	28	29	31	32	33	34	35	36
	37	38	39	40	41	42	44	45	46	47	48	49	51	52	53
	54	55	56	57	59	60	64	65	66	67	68	69	70	71	72
	74	76	77	78	80	81	82	83	85	86	87	88	89	90	91
	92	93	95	96	97	101	102	103	104	105	106	108	109	110	111
	112	114	115	116	117	118	119	120							

Modulus 246 (continued)

2:	7	8*	9	10*	11	12*	13	14*	16*	17	18*	19	20*	21	22*
	23	24*	25	26*	27	28*	29	30*	31	32*	33	36*	37	38*	40*
	42*	44*	46*	47	49	50*	51	52*	54*	55	56*	57	58*	59	62*
	63	64*	66*	67	68*	70*	71	72*	73	74*	76*	78*	80*	82*	83
	84*	87	88*	89	90*	92*	93	94*	95	96*	98*	99	101	102*	103
	104*	105	106*	107	108*	109	110*	112*	113	114*	115	117	118*	120*	128*
	130*	131	132*	133	134*	135	136*	138*	139	140*	141	142*	143	144*	147
	148*	149	152*	153	154*	155	156*	159	160*	161	162*	164*	165	166*	170*
	172*	173	174*	176*	177	178*	180*	181	182*	184*	185	186*	189	190*	191
	192*	193	194*	197	199	201	202*	204*	206*	208*	210*	211	212*	213	215
	216*	217	218*	219	220*	222*	224*	227	228*	229	230*	231	232*	234*	235
	236*	237	238*	240*	241										
3:	10	11	12*	13	14	15*	18*	19	21*	22	24*	26	28	30*	31
	32	33*	35	37	42*	43	49	50	53	57*	58	62	64	68	69*
	73	76	77	78*	83	84*	89	91	92	94	95	98	99*	100	104
	105*	107	108*	111*	112	113	115								
4:	14*	16*	17	18*	19	20*	22*	23	24*	25	26*	27	29	32*	33
	34*	36*	38*	40*	42*	43	44*	46*	48*	50*	51	52*	57	58*	60*
	62*	64*	66*	72*	74*	75	76*	84*	85	91	93	94*	95	98*	100*
	102*	107	108*	109	110*	113	114*	116*	118*	124*	126*	132*	134*	136*	137
	140*	142*	143	146*	148*	152*	155	156*	157	159	165	166*	169	173	174*
	175	176*	178*	180*	184*	186*	188*	190*	192*	196*	198*	199	202*	207	208*
	210*	212*	214*	216*	217	218*	221	224*	225	226*	228*	230*	231	233	234*
	236*														
5:	18	29	30	31	34	36	40	41	42	45	52	53	56	72	75
	76	77	83	86	87	88	94	97	98	99	110				
6:	20*	22*	23	24*	26*	28*	30*	31	36*	38*	42*	44*	48*	52*	56*
	60*	62*	63*	64*	66*	67	70*	74*	75*	81*	84*	86*	98*	99*	100*
	101	103	106*	114*	116*	124*	128*	136*	138*	146*	147*	149	151	152*	153*
	154*	156*	166*	168*	178*	182*	184*	185	188*	190*	196*	198*	200*	208*	210*
	214*	216*	221	222*	224*	226*	229	230*							
7:	28	48	63	67	82	102									
8:	27	28*	34*	36*	38*	39	40*	46*	47	50*	58*	64*	66*	68*	72*
	81	84*	85	86*	91	92*	100*	102*	104*	114*	150*	152*	163	168*	170*
	173	182*	186*	188*	190*	196*	200*	204*	207	214*	216*	220*	226*	227	
9:	49	83													
10:	36*	58*	60*	62*	68*	72*	80*	82*	84*	90*	104*	106*	112*	144*	150*
	152*	154*	166*	172*	174*	176*	188*	194*	196*	198*	220*				
11:	45	89													
12:	46*	48*	52*	56*	60*	62*	96*	124*	132*	134*	150*	196*	198*	202*	206*
	212*														
14:	56*	96*	126*	134*	164*	204*									
16:	54*	78*	80*	94*	100*	162*	168*	170*	182*	208*					
18:	98*	166*													
22:	90*	178*													

336 = 423 * 0 # 759 Total

27

														Page	122
Modulus	247,		Period		252										
0:	1	2	3	4	5	6	7	8	9	10	11	12	13*	14	15
	16	17	18	19*	20	21	22	23	24	25	26*	27	28	30	31
	32	33	34	35	36	37	38*	39*	40	41	43	44	46	47	48
	49	50	51	52*	53	54	56	59	60	62	63	64	65*	66	67
	69	70	72	73	75	76*	78*	79	80	82	83	85	86	88	89
	91*	92	93	96	98	99	101	102	104*	105	108	109	111	112	115
	117*	118	121	124	125	127	128	130*	131	134	137	140	141	143*	144
	147	150	153	156*	157	160	163	166	169*	170	173	176	179	182*	186
	189	192	195*	202	205	208*	218	221*	234*						
1:	3	4	5	7	9	10	11	15	16	17	18	20	22	24	29
	30	31	33	34	35	37	42	43	44	46	48	50	53	55	56
	57	59	61	63	69	70	72	74	76	82	89	98	108	111	119
	122	124	136	137	138	141	148	154	160	167	186	189	202	212	225
2:	6	7	8	10	11	14	19	20	21	23	27	29	35	36	40
	45	47	48	57	61	67	74	83	84	86	92	100	106	112	122
	125	131	157	196	203										
3:	7	8	14	30	33	35	38	54	61	73	90	126	139	145	165
	168	184													
4:	15	28	42	53	58	67	72	90	117	129	181	184			
5:	11	97	230												
6:	43	63	108	146											
8:	116														
13:	65*	195*													
19:	57*	76*	95*												
26:	130*														
	240 =		27 *		0 #		267	Total							

Modulus	248,		Period		60										
0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31*	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
	76*	77	78*	79	80*	81	82*	83	84*	85	86*	87	88*	89	90*
	91	92*	93*	94*	95	96*	97	98*	99	100*	101	102*	103	104*	105
	106*	107	108*	109	110*	111	112*	113	114*	115	116*	117	118*	119	120*
	121	122*	123	124*	126*	128*	130*	132*	134*	136*	138*	140*	142*	144*	146*
	148*	150*	152*	154*	156*	158*	160*	162*	164*	166*	168*	170*	172*	174*	176*
	178*	180*	182*	184*	186*	188*	190*	192*	194*	196*	198*	200*	202*	204*	206*
	208*	210*	212*	214*	216*	218*	220*	222*	224*	226*	228*	230*	232*	234*	236*
	238*	240*	242*	244*	246*										
1:	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	18	19	20	21	22	25	26	27	28	29	30	31	32	33	34
	35	36	37	38	39	40	42	43	44	45	46	47	48	50	51
	52	53	54	56	57	59	61	62	63	64	65	66	67	68	69
	70	71	72	73	74	75	76	77	78	80	81	83	84	85	87
	89	90	91	92	93	94	95	96	98	99	100	101	102	103	104
	105	106	107	108	109	111	113	114	115	116	118	119	120	121	123
	124	128	129	130	131	132	134	135	136	137	138	139	140	142	143
	144	145	146	147	149	150	151	153	154	155	156	157	158	159	160
	162	163	164	166	168	169	170	171	174	175	176	177	178	180	181

														Page	123
Modulus	248	1: (continued)													
	182	183	185	187	189	190	192	193	194	195	196	197	199	204	205
	206	207	209	211	213	214	215	216	217	218	219	220	222	223	224
	227	228	229	230	231	233	235	237	238	239	240	242	243	244	245
2:	5	7	8*	9	10*	11	12*	14*	16*	17	18*	20*	21	22*	23
	24*	25	26*	27	28*	29	30*	32*	33	34*	36*	38*	39	40*	41
	42*	43	44*	45	49	50*	52*	54*	55	57	58*	59	60*	61	62*
	64*	66*	67	68*	69	70*	71	72*	73	75	76*	78*	80*	81	83
	84*	85	87	88*	89	90*	91	92*	93	94*	96*	97	99	100*	101
	102*	103	104*	105	106*	108*	112*	113	114*	117	118*	119	121	122*	124*
	126*	130*	132*	136*	138*	140*	142*	144*	146*	148*	150*	160*	162*	166*	170*
	174*	178*	180*	182*	184*	186*	188*	190*	192*	196*	198*	200*	206*	208*	210*
	212*	214*	218*	222*	226*	228*	230*	232*	236*	238*	240*	242*			
3:	7	8	9	11	12	13	14	15	17	18	19	20	21	22	23
	25	26	27	28	29	30	33	35	36	38	39	40	42	44	47
	49	50	53	54	55	56	57	58	59	60	62	63	64	66	70
	71	73	74	75	78	79	80	82	83	84	85	88	89	90	91
	92	94	96	97	99	100	102	105	106	108	109	111	112	114	115
	116	119	120	121	124	126	131	132	135	136	137	139	141	142	143
	144	145	146	149	151	152	153	159	160	162	163	168	171	173	176
	177	178	179	181	184	187	188	190	193	195	198	201	202	203	204
	207	209	211	213	214	215	216	218	219	220	221	223	224	226	229
	230	232	233	236	238	239	240	243	244						
4:	9	10*	11	13	14*	16*	17	18*	19	21	22*	24*	25	27	28*
	32*	35	36*	40*	42*	44*	45	46*	48*	49	50*	51	52*	53	54*
	57	58*	59	60*	61	66*	67	69	71	72*	75	76*	77	78*	79
	82*	84*	85	86*	90*	98*	100*	101	103	105	108*	110*	113	114*	115
	116*	117	118*	119	120*	124*	128*	134*	136*	138*	142*	144*	146*	150*	152*
	162*	166*	168*	170*	174*	176*	178*	182*	184*	186*	188*	194*	198*	200*	202*
	204*	206*	208*	210*	212*	216*	224*	226*	228*	234*	236*	238*	242*		
5:	11	12	13	17	18	19	20	25	26	31	32	34	35	37	38
	43	44	49	50	51	53	54	55	57	63	65	66	69	74	76
	78	79	82	84	86	87	88	93	95	98	99	100	102	104	105
	106	107	109	111	112	113	117	118	119	124	128	135	136	137	141
	142	143	144	148	149	150	155	156	158	159	160	166	167	168	171
	174	175	177	179	181	187	190	193	198	200	202	203	204	206	208
	210	212	215	217	219	221	222	223	224	228	233	235	236	241	242
6:	13	14*	16*	21	22*	23	24*	26*	28*	30*	33	34*	36*	38*	40*
	42*	44*	50*	52*	53	54*	56*	58*	61	63	69	70*	72*	76*	77
	78*	81	83	84*	88*	89	94*	95	98*	99	101	103	106*	108*	110*
	114*	120*	126*	128*	132*	142*	148*	156*	158*	160*	166*	170*	178*	180*	182*
	184*	188*	192*	194*	198*	200*	204*	210*	212*	216*	218*	224*	228*	230*	232*
	238*	240*													
7:	16	19	20	21	24	30	32	33	36	41	44	45	48	50	51
	54	56	63	66	68	70	71	83	84	86	91	92	98	103	112
	116	117	119	128	130	143	144	148	154	156	157	165	169	178	179
	181	190	192	194	202	207	215	221	231	236	240				
8:	18*	20*	22*	28*	31	34*	36*	38*	42*	50*	51	54*	69	70*	73
	77	84*	89	92*	97	98*	100*	102*	104*	108*	109	111	114*	116*	134*
	142*	152*	154*	156*	158*	164*	170*	172*	206*	220*	226*	228*	234*	238*	
9:	21	25	27	32	35	39	40	43	44	51	63	67	68	69	74
	75	83	85	98	99	100	108	112	113	130	132	143	149	159	163
	167	174	175	191	192	198	199	222	236	237					

Modulus 248 (continued)

10:	22*	24*	26*	27	34*	36*	38*	40*	43	49	50*	52*	62*	64*	68*
	70*	86*	88*	89	100*	101	102*	106*	107	108*	110*	114*	126*	132*	138*
	148*	152*	156*	158*	164*	168*	172*	176*	186*	190*	196*	198*	200*	208*	218*
	222*	224*	234*	236*											
11:	23	24	26	36	46	50	73	85	86	90	96	111	113	130	148
	169	170	173	174	176	197	210	214	220	235					
12:	26*	42*	48*	53	66*	68*	72*	83	84*	89	91	97	104*	106*	109
	116*	126*	138*	140*	162*	166*	176*	178*	188*	190*	198*	206*	212*	216*	228*
13:	34	99	100	106	223	227	230								
14:	37	38*	40*	47	48*	55	60*	64*	65	66*	82*	88*	90*	96*	100*
	108*	132*	136*	140*	166*	182*	224*	232*							
15:	37	47	78	98	111	113	128	136	161	202	222	229	232		
16:	36*	68*	102*	138*	178*	204*	218*	222*	228*						
17:	71	195													
18:	50*	70*	78*	86*	102*	134*	136*	148*	150*	196*	224*	226*			
19:	63	79	124	163											
20:	54*	80*	86*	99	104*	176*	178*	200*	202*						
22:	48*	57	92*	100*	146*	172*	180*	192*	222*						
24:	84*	93	182*	208*	218*										
25:	83	96													
26:	198*	212*													
28:	94*	130*	216*												
30:	74*	156*	196*												
31:	93*	124*													
34:	142*														
768 =	523 *				0 #										1291 Total.

Modulus 249, Period 168

0:	1	2	3*	4	5	6*	7	8	9*	10	11	12*	13	14	15*
	16	17	18*	19	20	21*	22	23	24*	25	26	27*	28	29	30*
	31	32	33*	34	35	36*	37	38	39*	40	41	42*	43	44	45*
	46	47	48*	49	50	51*	52	53	54*	55	56	57*	58	59	60*
	61	62	63*	64	65	66*	67	68	69*	70	71	72*	73	74	75*
	76	77	78*	79	80	81*	82	83*	84*	85	86	87*	88	89	90*
	91	92	93*	94	95	96*	97	98	99*	100	101	102*	103	104	105*
	106	107	108*	109	110	111*	112	113	114*	115	116	117*	118	119	120*
	121	122	123*	124											
1:	4	5	6	7	8	10	11	12	14	16	17	19	20	21	23
	25	26	27	28	29	30	31	33	34	37	38	39	40	41	43
	46	48	49	50	52	53	56	57	58	59	60	61	63	66	67
	68	69	71	73	75	79	80	81	82	83	84	86	87	90	91
	92	94	97	98	102	103	104	105	106	107	109	112	113	114	119
	120	121	129	131	132	135	136	137	138	140	141	143	144	146	147
	152	154	156	158	159	163	164	165	166	167	169	172	173	175	176
	177	178	181	182	183	184	187	188	189	190	193	194	195	197	199
	202	205	207	208	209	219	220	222	225	227	229	230	234	239	242
	243														
2:	8	9	11	12	14	15	16	20	21	28	33	40	52	56	63
	66	67	68	69	71	76	78	79	89	95	97	98	101	104	112
	114	115	116	119	122	129	132	136	137	139	142	149	150	151	161
	162	172	177	182	184	188	194	195	211	218	235	237	242		

Modulus 249 (continued)

3:	13	16	26	34	35	50	59	77	80	83	92	107	125	127	133
	145	160	163	169	175	179	182	193	200	217	226				
4:	16	24	30	32	35	40	75	152	155	178	190	221			
5:	31	40	49	86	105	116	138	149	168	205	214	223			
7:	64	192													
	328 =		42 *			0 #			370 Total						

Modulus 250, Period 1500

0:	1	2*	3	4*	5*	6*	7	8*	9	10*	11	12*	14*	15*	16*
	17	18*	19	20*	21	23	24*	25*	27	28*	29	30*	32*	33	34*
	36*	37	38*	41	42*	43	45*	46*	47	50*	51	54*	55*	56*	59
	60*	63	64*	67	68*	72*	73	76*	77	81	85*	86*	90*	94*	99
	103	112*	125*												
1:	3#	8#	13#	18#	23#	28#	33#	43#	48#	53#	58#				
2:	6*	11#	16*	21#	26*	31#	36*	41#	46*	56*	66*	71#	81#	86*	91#
	96*	106*	111#	116*	121#										
3:	9#	19#	34#	44#	59#										
4:	12*	22*	32*	42*	62*	72*	82*	92*	112*						
5:	15*	40*	65*												
6:	18*	38*	68*	88*	118*										
10:	30*	80*	105*	130*											
15:	45*														
20:	60*														
25:	75*														
30:	90*														
50:	150*														
	25 =		75 *			25 #			125 Total						

Modulus 251, Period 250

0:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
	241	242	243	244	245	246	247	248	249	250					
1:	118#	134													
2:	236#														
	251 =		0 *			2 #			253 Total						

Modulus 252 (continued)

19:	43	69	94	151	154	189	203	204	228
20:	79	81	229						
21:	45*	63*	77*	105*	133*	224*			
22:	52*	57							
23:	182								
24:	60*	96*	108*	129*	216*				
25:	65								
26:	58*								
28:	63*								
35:	91*								
36:	204*								
864 = 507 * 0 # 1371 Total									

Modulus 253, Period 240

0:	1	2	3	4	5	6	7	8	9	10	11*	12	13	14	15
	16	18	19	20	21	22*	23*	24	25	26	27	28	29	30	31
	32	33*	35	36	37	38	39	41	42	43	44*	46*	47	48	49
	50	52	53	54	55*	56	58	59	60	61	64	65	66*	67	69*
	70	71	72	73	75	76	77*	78	81	82	83	84	87	88*	89
	92*	93	94	95	98	99*	100	101	104	105	106	110*	111	112	115*
	116	117	118	121*	122	123	127	128	129	133	134	138*	139	140	144
	145	146	150	151	156	157	161*	162	163	167	168	173	174	179	184*
	185	190	191	196	202	207*	208	213	219	230*	236				
1:	3	4	6	7	8	10	12	13	14	15	16	17	18	19	20
	21	22	26	30	36	37	38	39	41	42	43	47	48	55	59
	61	65	71	77	79	81	90	94	96	104	107	112	118	127	129
	134	135	140	141	151	152	157	162	169	173	174	180	185	197	208
2:	5	6	8	11	13	15	16	17	19	20	24	28	29	30	32
	40	42	44	51	55	61	71	72	74	76	78	84	85	94	95
	96	99	107	117	118	122	158	162	163	169	203	214			
3:	18	22	29	34	35	36	39	43	46	51	56	61	66	73	85
	107	108	117	118	123	128	130	141	152						
4:	9	10	12	34	37	40	63	67	69	73	77	83	85	102	113
5:	16	57	61	62	199	210									
6:	13	25	44	68											
7:	48	76	86												
23:	92*	184*													
46:	184*														
264 = 24 * 0 # 288 Total															

Modulus 254, Period 768

0:	1	2*	3	4*	5	6*	7	8*	9	10*	11	12*	13	14*	15
	16*	17	18*	19	20*	21	22*	23	24*	25	26*	27	28*	29	30*
	31	32*	33	34*	35	36*	37	38*	39	40*	41	42*	43	44*	45
	46*	47	48*	49	50*	51	52*	53	54*	55	56*	57	58*	59	60*
	61	62*	63	64*	65	66*	67	68*	69	70*	71	72*	73	74*	75
	76*	77	78*	79	80*	81	82*	83	84*	85	86*	87	88*	89	90*
	91	92*	93	94*	95	96*	97	98*	99	100*	101	102*	103	104*	105
	106*	107	108*	109	110*	111	112*	113	114*	115	116*	117	118*	119	120*
	121	122*	123	124*	125	126*	127*								
63 = 64 * 0 # 127 Total															

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