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Elliptic Curve Cryptography: Extensions of Subfield Curves in Characteristic 2

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Elliptic Curve Cryptography: Extensions of Subfield Curves in Characteristic 2

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Funded by the Pence-Boyce Undergraduate Research Experience

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Abstract

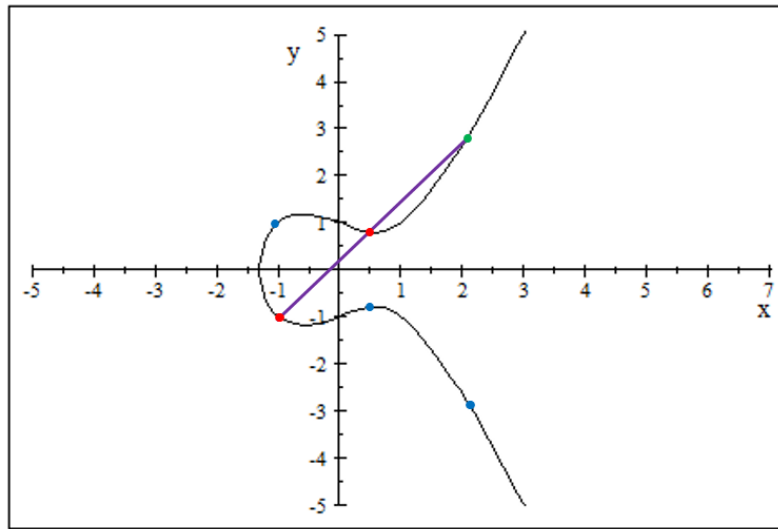
This paper examines subfield curve extensions on a number of elliptic curves over finite fields in characteristic 2. The data generated is aimed to assist further understanding into the nature of elliptic curves, and any possible characteristics or patterns that they share. The total rational points on base fields were found using C++, and points on their field extensions were calculated using Scientific Workplace. Different extensions were then categorized based on the factorization of their respective points. We found that the total number of points on a base field will divide the total number of points of any extension of that field, and that the examined curves were all paired with another distinct curve. In addition, we discovered that the total points in only 3.85% of studied field extensions factored into the points of the base field times a large prime.

Literature Review

Elliptic curves are a comparatively recent addition to public key cryptography, because they are able to provide comparable security to other methods currently employed, but with much smaller processor requirements (Blake, Seroussi, and Smart, page xi). Not everyone can dedicate massive amounts of computing power into encrypting their information, especially on devices like smart phones, tablets, or laptops, or in situations where efficiency is vitally important (Stein, page 139). Furthermore, due to the Edward Snowden disclosures, we know that the current standards set by NIST (the National Institute for Standards and Technology) has a fatal flaw (Hales). All of which tell us that elliptic curves deserve additional attention. In our data, we found that elliptic curves in characteristic 2 came in pairs, and it appears that there is some corresponding relationship between subfield curves and divisibility of their corresponding n values.

Elliptic curves over a field are solution sets to the equation: $y^2 = x^3 + ax + b$, where a and b are elements of that field. They can be used in a number of cryptographic applications, Diffie-Helman key exchanges and ElGamal crypto-systems, for example (Stein). However, finding suitable elliptic curves over a field can be a bit problematic. There are still unanswered questions on the nature of elliptic curves, particularly when it comes to the number of rational points present on them.

Now, if you have two rational points on an elliptic curve, you can find more. Graphically, using those two points, you can form a line between them, and that line will intersect the elliptic curve at a third rational point. You can then continue to repeat this process, using the second and third points to find a fourth point, and so on. Furthermore, elliptical curves are symmetrical over the x axis, so the reflection of a rational point will also be rational.



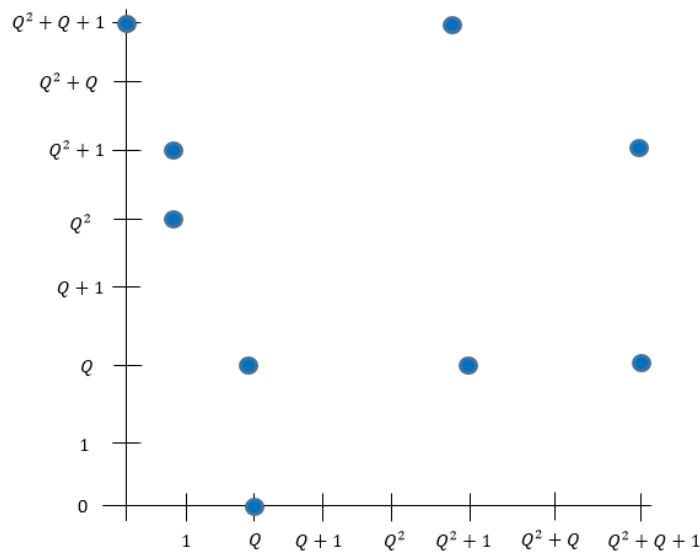
If we pretend the red points are rational, we can find another (green). In addition, all their reflections (blue) will be rational.

However, there are still many important, but currently unanswered, questions about elliptic curves. For example, will this process lead to finite or infinite number of points? If this process returns a finite number of points, are those *all* of the rational points on that curve, or are there still more points that have yet to be found?

To be useful in cryptographic systems, the curve is required to be over a finite field. Fields are closed systems with two commutative operations, and every element must have an inverse for both operations (Lovett, page 212). When we take an elliptic curve over a field, we have a more limited number of rational points. Looking at the points over that field then causes us to lose the neat, graphical representation previously discussed. However, if instead the process is viewed algebraically, this can be expressed as a commutative group structure (Stein, page 126).

Consider the identity to be a point at ∞ , and inverses to be points with identical x coordinates and inverse y coordinates. When taking two points, (x_1, y_1) and (x_2, y_2) , and provided neither is the identity and they are not inverses, we can operate them together to get

another point (x_3, y_3) . We find $x_3 = \Delta^2 - x_1 - x_2$, and $y_3 = -\Delta - (y_1 - \Delta x_1)$, where $\Delta = (3x_1^2 + a) / (2y_1)$ when $(x_1, y_1) \neq (x_2, y_2)$, where a is drawn from $y^2 = x^3 + ax + b$. Otherwise, $\Delta = (y_1 - y_2) / (x_1 - x_2)$. So instead of a graph of the curve, we have a scatterplot of the total points over that field, found algebraically.



Scatter plot of points on the curve $a_2 = 0, a_6 = Q + 1$, over a field of size 8

Whether or not an elliptic curve over a finite field is suitable for cryptographic systems depends on the number of rational points on that particular curve. For a curve over a field to be suitable, it should meet the following three conditions (Blake, Seroussi and Smart, page 99): First, the group should have a subgroup of large prime order. Second, the curve should have more points than just those that correspond to the elements of the field. Third, every element should have a large order. For the purposes of this project, we focused primarily on examining groups for the first criteria, without making distinction as to what size order qualifies as “large”, which would vary depending on the desired strength of encryption.

Methodology

For the purposes of this project, we focused on fields with characteristic 2, which allowed us to use the equation $Y^2 + XY = X^3 + a_2X^2 + a_6$, in place of the standard equation for elliptic curves (Blake, Seroussi and Smart, page 37). Here, a_6 is an element of the field, and a_2 is either an element with trace of 1, or set as 0. Due to the time constraints of this project, we limited ourselves to examining fields of size 8 and 32, in the cases where $a_2 = 0, 1$.

Starting out, in order to find the points over the initial field, it was beneficial to create a multiplication table for the elements of the field. This helped both for counting the total points by hand, and later for coding the process into C++. We generalized using a variable that we called Q , while 0 and 1 correspond to the additive and multiplicative identities, respectively. Finally, we used the modulus $Q^3 + Q + 1$ which gets us the property that $Q^3 = Q + 1$, while we're working in characteristic 2. This resulted in the following table for the size 8 field:

	0	1	Q	Q+1	Q ²	Q ² +1	Q ² + Q	Q ² + Q + 1
0	0	0	0	0	0	0	0	0
1	0	1	Q	Q+1	Q ²	Q ² +1	Q ² +Q	Q ² +Q+1
Q	0	Q	Q ²	Q ² +Q	Q+1	1	Q ² +Q+1	Q ² +1
Q+1	0	Q+1	Q ² +Q	Q ² +1	Q ² +Q+1	Q ²	1	Q
Q ²	0	Q ²	Q+1	Q ² +Q+1	Q ² +Q	Q	Q ² +1	1
Q ² +1	0	Q ² +1	1	Q ²	Q	Q ² +Q+1	Q+1	Q ² +Q
Q ² +Q	0	Q ² +Q	Q ² + Q + 1	1	Q ² +1	Q+1	Q	Q ²
Q ² +Q+1	0	Q ² +Q+1	Q ² + 1	Q	1	Q ² +Q	Q ²	Q+1

However, because C++ is not particularly adept at evaluating symbolic expressions, it was necessary to adjust the table's format. By replacing the symbolic expressions with integers, we could translate the table into a format that C++ can more readily understand. Then by simply leaving off the first row and column (which are simply to assist), we are left with the following:

0	0	0	0	0	0	0	0
0	1	2	3	4	5	6	7
0	2	4	6	3	1	7	5
0	3	6	5	7	4	1	2
0	4	3	7	6	2	5	1
0	5	1	4	2	7	3	6
0	6	7	1	5	3	2	4
0	7	5	2	1	6	4	3

This can be imported into C++ as an 8x8 matrix, which we call in a separate function within the main body of code. For multiplying two elements, we simply called the appropriate row and column entry and returned the resulting value. Doing the same with the addition table helped handle the more abstract arithmetic when checking whether a point was on the curve or not, and cycling through the different possible values checks all the possible points.

Once we had the initial number of points, we could employ the necessary formulas to create a recursive sequence, where terms would correspond to the total number of points on the same curve if we extend the field from size 8, to 8^n . Let N_n be the total number of points on a particular curve over a field of size 8^n . Then N_n can be found using the following formulas (Blake, Seroussi and Smart, page 105): $N_n = q^n + 1 - c_n$, and $c_n = c_1 c_{n-1} - q c_{n-2}$, where $c_0 = 2$. In our case, $q=8$. Note: q is the size of the field, and is not to be confused with Q , which

is simply a placeholder variable we used to generate the necessary addition/multiplication tables. C++ helped us find N_1 , which lets us find c_1 , and examine how N_n behaves as n increases.

We did so by employing the preceding formulas in Scientific Workplace, working around its natural limitation against recursive formulas by treating it as a piecewise function, and employing a sort of leapfrog approach. We chose Scientific Workplace because it had already been installed on a large number of campus computers, and wasn't as limited in the size of available computations as other programs. However, since Scientific Workplace does not store the information for different values of n , it is forced to continually recalculate every preceding term, which becomes a problem as n becomes progressively larger. So instead we periodically redefined the function, had it calculate a handful of n values at a time, then adjusted the formula again for the next handful.

After finding the terms of these sequences, we computed their prime factorizations and started to evaluate them for the first of Blake, Seroussi, and Smart's criteria- that the group should have a subgroup of large prime order. Since we were not actually creating a cryptographic system, we employed a rough system to group different n into tiers based on "scores". We assigned scores dividing the number of points in the n th case of the curve by its largest prime divisor, the number of points in the first case, and taking its n th root. For example: on one curve, $N_4 = 4000, N_1 = 8$. So the value for X (the "score" we would assign the $n=4$ case) would be $\sqrt[4]{\frac{4000}{8 \times 5}} = 3.162$. With this approach, when N_n has a large prime factor (relative to its size), it will have a score close to 1.

Then we created five different tiers around the resulting scores to categorize the different values of n . This allowed us to get a rough idea of which n values would perhaps be more suitable for being used in a cryptographic system, since those with large prime divisors (relative

to the number of points) would be those most likely to fulfill any subgroup size requirements. So lower scores ranked higher, within our system.

Then we repeated this entire process, but for a field of size 32. We changed the modulus to $Q^5 + Q^3 + 1$, made new addition and multiplication tables, modified the necessary coding, and reran the program. This gained us a new set of curves, and new sets of points. Then once again we ran the formulas as many times as we could (adjusting q to be 32), found prime factorizations, assigned scores, and adjusted our tiers appropriately.

Our Findings

Our first observation, which we employed in part of our method of categorizing n values, is that given a curve, it's N_1 value will divide N_n for all $n \geq 1$. The proof of this is:

Inductive Hypothesis: Assume that N_1 divides N_m for all $m < n$.

$$\text{Recall: } N_n = q^n + 1 - c_n, \text{ and } c_n = c_1 c_{n-1} - q c_{n-2}$$

$$N_1 = q + 1 - c_1, \text{ so } c_1 = q + 1 - N_1$$

$$\text{Similarly, } c_{n-1} = q^{n-1} + 1 - N_{n-1}, \text{ and } c_{n-2} = q^{n-2} + 1 - N_{n-2}.$$

$$\text{Then } c_n = (q + 1 - N_1)c_{n-1} - q c_{n-2}$$

$$N_n = q^n + 1 - ((q + 1 - N_1)c_{n-1} - q c_{n-2})$$

$$N_n = q^n + 1 - ((q + 1 - N_1)(q^{n-1} + 1 - N_{n-1}) - q(q^{n-2} + 1 - N_{n-2}))$$

$$\text{Which simplifies as } N_n = qN_{n-1} + N_{n-1} + N_1 q^{n-1} + N_1 - N_1 N_{n-1} - qN_{n-2}$$

$$\text{By our inductive hypothesis, we know } N_1 \text{ divides } N_{n-1} \text{ and } N_{n-2}.$$

$$\text{Therefore: } N_1 \text{ divides } N_n$$

Furthermore, it appears that if n divides m , N_n divides N_m . For example, N_3 divides N_{3k} for all $k \geq 1$. However, we lack a proof of this, and it is possible a counterexample exists.

Secondly, the curves came in pairs. When two curves had different values of a_2 , but the same value of a_6 , they had opposite c_1 values. For example, for a curve where $a_2 = 0$ and $a_6 = Q$, $c_1 = 11$. Meanwhile, a curve with $a_2 = 1$ and $a_6 = Q$, has $c_1 = -11$. The two curves then will have c_n values that are identical whenever n is even, and additive inverses whenever n is odd. This is due to the nature of the recursive formula used to derive them, and the proof of this is as follows.

Suppose there exist two curves with the same q , such that $c_1 = x$ and $c'_1 = -x$

Case 1: n is even.

Recall: $N_n = q^n + 1 - c_n$, and $c_n = c_1 c_{n-1} - q c_{n-2}$

Inductive Hypothesis: assume $c_{2b} = c'_{2b}$ for all $b < a$

Then $c_{2(a+1)} = c_1 c_{2a+1} - q c_{2a}$

Repeatedly substituting in the recursive formula for c_{2a+1} yields:

$$c_{2(a+1)} = c_1^2 k_1 c_{2a} + c_1^2 k_2 c_{2a-2} \dots + c_1^2 k_{a+1} c_0 - q c_{2a}$$

$$c_{2(a+1)} = c_1^2 (k_1 c_{2a} + k_2 c_{2a-2} \dots + k_{a+1} c_0) - q c_{2a}$$

where k_1, k_2, \dots, k_m depend only on q . Employing the same process for $c'_{2(m+1)}$ then yields

$$c'_{2(a+1)} = c_1'^2 (k_1 c'_{2a} + k_2 c'_{2a-2} \dots + k_{a+1} c'_0) - q c'_{2a}$$

By our inductive hypothesis, and because $c_1^2 = c_1'^2$, therefore $c_{2(a+1)} = c'_{2(a+1)}$

Therefore, $N_{2n} = N'_{2n}$

Case 2: n is odd.

$$c_{2a+1} = c_1 c_{2a} - q c_{2a-1}$$

Repeatedly substituting in for c_{2a-1} then yields:

$$c_{2a+1} = c_1 c_{2a} + c_1 k_1 c_{2a-2} + c_1 k_2 c_{2a-4} \dots + c_1 k_a c_0$$

$$c_{2a+1} = c_1 (c_{2a} + k_1 c_{2a-2} + k_2 c_{2a-4} \dots + k_a c_0)$$

Where k_1, k_2, \dots, k_k are constants depending only on q , the same process for c'_{2a+1} yields:

$$c'_{2a+1} = c'_1(c'_{2a} + k_1c'_{2a-2} + k_2c'_{2a-4} \dots + k_ac'_0)$$

We've already found that $c_{2n} = c'_{2n}$, and by our hypothesis $c_1 = -c'_1$. Therefore:

$$c_{2a+1} = -c'_{2a+1}$$

Conclusion

Our data confirms that, as expected (Blake, Seroussi and Smart, page 105), N_n typically will have a very large prime factor when n is prime. Out of the 1040 base fields and extensions we examined, only 187 were ranked as Tier 1, the vast majority of which were when n was prime. 18 of them were when $n=1$, simply due to the way in which we calculated X . Excluding cases where $n=1$, 81% of all Tier 1 curves we found had n prime. Even more rare were “perfect” cases, where N_n factored perfectly into N_1 and a single large prime. A slightly more detailed breakdown of our data is as follows:

	# ranked as Tier 1	Tier 1 with n prime	“Perfect” n
Field Size: 8	84	74	20
Field Size: 32	103	64	20
Total	187	138	40

Our findings indicate that more study into the nature of elliptic curves may yield further insight into possible relationships among them. This data suggests that there may be more similarities among different curves than perhaps what was previously thought. Additional

research is needed to see what may result if we adjust a_2 . We've observed that $a_2 = 0, 1$ result in paired curves. Will *every* value of a_2 with a trace of 1 result in the same N_n as $a_2 = 1$? If not, is there any relationship among their N_n ? Another possible avenue for future research is whether the appearance of paired curves is unique to working in characteristic 2, or not. With further study, we may find that elliptic curves can be categorized into some form of "family" structures, where curves within the same family share certain fundamental traits or behaviors.

References

Blake, I. F., Seroussi, G., & Smart, N. P. (2006). *Elliptic Curves in Cryptography*. Cambridge: Cambridge University Press.

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Stein, W. A. (2009). *Elementary Number Theory: Primes, Congruences, and Secrets*. New York: Springer. doi:10.1007/978-0-387-85525-7_6

Data Guide

The order that the curves are presented in is determined by the value of c_1 , pair by pair. The field size, c_1 , and value(s) of a_2 and a_6 that resulted in that c_1 are listed. Following this are the extensions of the curve, with n , N_n , and its assigned score. Finally, we included the prime factorizations of N_n .

Note: in certain cases, Scientific Workplace was unable to handle finding the prime factorization of N_n , causing the program to crash. These cases are denoted by an asterisk following the value of n . Utilizing the Wolfram Alpha computation engine allowed us to factor N_n , but we were unable to confirm that every factor is a *prime* factor of N_n . However, Scientific Workplace was capable of finding the prime factorization of much larger N_n , and it crashed *only* on certain values. For these reasons, we operated under the working hypothesis that the largest factor of N_n is a prime that's simply too large for Scientific Workplace to handle, and scored n appropriately.

System for assigning X (score) into tiers:

For a field of size 8:

Tier 1: $x < 2$

Tier 2: $2 \leq x < 2.5$

Tier 3: $2.5 \leq x < 23$

Tier 4: $3 \leq x < 5$

Tier 5: $x \geq 5$

For a field of size 32:

Tier 1: $x < 2.5$

Tier 2: $2.5 \leq x < 4$

Tier 3: $4 \leq x < 6$

Tier 4: $6 \leq x < 8$

Tier 5: $x \geq 8$

Field Size: 8

C1= 1

A2= 0

A6= 0, Q, Q², or Q²+Q

n	N _n	X	Tier
1	8	1.0	1
2	80	1.4142	1
3	536	1.0	1
4	4000	3.1623	4
5	32488	1.9873	1
6	262640	2.8078	3
7	2099896	1.8385	1
8	16776000	3.647	4
9	134194568	3.4650	4
10	1073728400	3.3944	4
11	8590106456	2.1268	2
12	68 719756000	3.2956	4
13	549 754718248	1.7835	1
14	4398 043181360	2.8741	3
15	35184 377524216	2.3031	2
16	281475 008784000	4.1402	4
17	2251799 802275528	1.4311	1
18	18014398 241485520	4.1866	4
19	144115187 899137176	1.0	1
20	1152921506 574100000	3.3596	4
21	9223372040 235778408	2.2131	2
22	73 786976282 481184880	2.8573	3
23	590 295810319 300609336	1.0	1
24	4722 366482929 096344000	5.0102	5
25	37778 931863331 853178888	2.5513	3
26	302231 454903556 376103440	3.4412	4
27	2417851 639226159 900084696	3.5811	4
28	19342813 113831775 686556000	4.0369	4
29	154742504 910695030 848268968	3.4287	4

30	1237940039 285421100 254945200	4. 2503	4
31	9903520314 282903052 661787256	3. 8624	4
32	79 228162514 263871844 166176000	3. 6050	4
33	633 825300114 115348171 223480648	2. 4289	2
34	5070 602400912 921979404 706894160	3. 3836	4
35	40564 819207303 340041929 421621016	2. 8003	3
36	324518 553658426 690989847 787044000	4. 8043	4
37	2596148 429267413 784919660 578685928	1. 7053	1
38	20769187 434139310 771122863 599214320	2. 8284	3
39	166153499 473114484 604741461 504769976	2. 5674	3
40	1329227995 784915871 339565612 991400000	5. 1085	5
41	10 633823966 279326977 732090403 195996808	2. 1255	2
42	85 070591730 234615872 859217357 206849680	4. 2077	4
43	680 564733841 876926977 751708995 175298136	1. 1273	1
44	5444 517870735 015415408 871689045 811884000	4. 781	4
45	43556 142965880 123322898 807768350 740565288	4. 6356	4
46	348449 143727040 986586123 432266114 894024240	2. 8284	3
47	2787593 149816327 892694897 754200354 157749496	3. 2430	4
48	22300745 198530623 141541628 568719796 511536000	5. 1240	5
49	178405961 588244985 132268192 716303855 297383368	3. 4528	4
50	1427247692 705959881 058221133 616040619 587842000	4. 5178	4
51	11 417981541 647679048 466363347 481570868 270748056	4. 5077	4
52	91 343852333 181432387 730896323 320934640 063796000	5. 2468	5
53	730 750818665 451459101 842405901 609877521 864083048	3. 4074	4
54	5846 006549323 611672814 734566180 174479025 083886960	4. 2963	4
55	46768 052394588 893382517 909965888 352087840 012597816	1. 6975	1
56	374144 419156711 147060143 350611815 409287558 072504000	4. 6347	4
57	2993155 353253689 176481146 608287656 216840187 819736328	4.0	4
58	23945242 826029513 411849172 102616713 936582522 023823120	3. 0461	4
59	191561942 608236107 294793377 630104112 154203409 738882776	2. 0039	2
60	1532495540 865888858 358347027 959479584 280282355 731900000	5. 8312	5
61	12 259964326 927110866 866776224 121120155 996568055 289655208	3. 4498	4
62	98 079714615 416886934 934209738 065071233 353613029 184994480	5. 0487	5
63	784 637716923 335095479 473677846 054411998 175499144 872066936	4. 8431	4
64	6277 101735386 680763835 789423149 200258233 702039375 426624000	3. 8883	4
65	50216 813883093 446110686 315386042 096291067 141601928 726191688	4. 7213	4
66	401734 511064747 568885490 523086139 144855748 273732623 522025040	4. 5646	4
67	3213876 088517980 551083924 184680127 579571617 128482779 383094296	2. 378	2

68	25711008 708143844 408671393 477449616 061080878 839146476 571716000	2. 9057	3
69	205688069 665150755 269371147 819677408 547349925 015481724 425537768	3. 2145	4
70	1645504557 321206042 154969182 557430985 041438759 935889775 200418800	4. 7331	4
71	13 164036458 569648337 239753460 458815756 524526284 880674886 584988856	3. 6578	4
72	105 312291668 557186697 918027683 669800195 088111605 942667939 292616000	4. 0065	4
73*	842 498333348 457493583 344221469 362732694 052664531 290158881 100525448	1. 3302	1
74	6739 986666787 659948666 753771754 911999542 633877318 891935642 662159760	3. 6936	4
75	53919 893334301 279589334 030174039 271485264 501406149 715626801 078454616	5. 4657	5
76	431359 146674410 236714672 241392314 066267117 741148247 739839317 545164000	3. 9858	4
77	3450873 173395281 893717377 931138512 620610556 215984243 292406171 029426728	2. 8747	3
78	27606985 387162255 149739023 449108101 900278050 175479807 594341727 563311920	4. 532	4
79	220855883 097298041 197912187 592864815 413829087 557058231 020293134 489475576	3. 9604	4
80	1766847064 778384329 583297500 742918516 039088583 028838728 387165515 275600000	4. 7972	4

n	Prime Factorization
1	2^3
2	$2^4 5$
3	$2^3 67$
4	$2^5 5^3$
5	$2^3 31 \times 131$
6	$2^4 5 \times 7^2 67$
7	$2^3 71 \times 3697$
8	$2^6 3^2 5^3 233$
9	$2^3 19 \times 67 \times 131 77$
10	$2^4 5^2 31 \times 131 \times 661$
11	$2^3 4027 \times 266641$
12	$2^5 5^3 7^2 67 \times 5233$
13	$2^3 1847 \times 37205923$
14	$2^4 5 \times 71 \times 3697 \times 209441$
15	$2^3 31 \times 67 \times 131 \times 16164121$
16	$2^7 3^2 5^3 233 \times 1777 \times 4721$
17	$2^3 443 \times 635 383691387$
18	$2^4 5 \times 7^2 19^2 67 \times 131 77 \times 14419$
19	$2^3 18014398 487392147$
20	$2^5 5^5 31 \times 131 \times 661 \times 4295021$
21	$2^3 67 \times 71 \times 3697 \times 65 556708169$
22	$2^4 5 \times 4027 \times 266641 \times 858976273$
23	$2^3 73 786976289 912576167$

24	$2^6 3^4 5^3 7^2 67 \times 193 \times 233 \times 5233 \times 9433$
25	$2^3 31 \times 131 \times 3635651 \times 319 \ 848642151$
26	$2^4 5 \times 131 \times 1847 \times 37205923 \times 419661763$
27	$2^3 19 \times 67 \times 109 \times 541 \times 919 \times 13177 \times 332472277$
28	$2^5 5^3 71 \times 3389 \times 3697 \times 209441 \times 25954853$
29	$2^3 59 \times 4409 \times 5279 \times 2404333 \times 5858430013$
30	$2^4 5^2 7^2 31 \times 67 \times 131 \times 661 \times 16164121 \times 21726121$
31	$2^3 5333 \times 1746169 \times 167365777 \times 794282683$
32	$2^8 3^2 5^3 97^2 233 \times 1777 \times 4721 \times 14 \ 957750273$
33	$2^3 67 \times 727 \times 4027 \times 266641 \times 1514822 \ 723189887$
34	$2^4 5 \times 443 \times 4999 \times 14621 \times 3080843 \times 635 \ 383691387$
35	$2^3 31 \times 71^2 131 \times 211 \times 281 \times 3697 \times 1129982 \ 311077901$
36	$2^5 5^3 7^2 19^2 67 \times 5233 \times 5869 \times 13177 \times 14419 \times 11730997$
37	$2^3 149 \times 2533169 \times 859783 \ 484714515 \ 050756761$
38	$2^4 5 \times 14411518 \ 825257457 \times 18014398 \ 487392147$
39	$2^3 67 \times 1847 \times 2029 \times 37205923 \times 2223226331 \ 913505309$
40	$2^6 3^2 5^3 31 \times 41^2 131 \times 233 \times 661 \times 21121 \times 4295021 \times 7742641$
41	$2^3 1559 \times 40099 \times 426319 \times 49875 \ 255530765 \ 978711219$
42	$2^4 5 \times 7^4 67 \times 71 \times 421 \times 3697 \times 209441 \times 4356661 \times 65 \ 556708169$
43	$2^3 173 \times 491737524 \ 452223213 \ 134213662 \ 568768279$
44	$2^5 5^3 4027 \times 4093 \times 34849 \times 50513 \times 204821 \times 266641 \times 858976273$
45	$2^3 19 \times 31 \times 67 \times 131 \times 13177 \times 16164121 \times 550531 \times 1556011 \times 5772114721$
46	$2^4 5 \times 47^2 2531 \times 10558 \ 004428171 \times 73 \ 786976289 \ 912576167$
47	$2^3 13913 \times 2082205187 \times 35 \ 673676237 \times 337168680 \ 239817521$
48	$2^7 3^4 5^3 7^2 67 \times 193 \times 233 \times 1777 \times 4721 \times 5233 \times 9433 \times 1162321 \times 242148721$
49	$2^3 71 \times 3697 \times 10487 \times 85206173 \ 412704051 \times 95080016 \ 106600659$
50	$2^4 5^3 31 \times 101 \times 131 \times 661 \times 18701 \times 3635651 \times 121 \ 038073501 \times 319 \ 848642151$
51	$2^3 67 \times 103^2 443 \times 8161 \times 1527247 \times 17938231 \times 31906417 \times 635 \ 383691387$
52	$2^5 5^3 131 \times 1847 \times 9049 \times 37205923 \times 4081098529 \times 163678633 \times 419661763$
53	$2^3 107 \times 62753 \times 46952701 \times 52451 \ 247740447 \times 5523885256 \ 411420813$
54	$2^4 5 \times 7^2 19^2 67 \times 109 \times 379 \times 541 \times 919 \times 13177 \times 14419 \times 332472277 \times 47523 \ 193390171$
55	$2^3 31 \times 131 \times 4027 \times 266641 \times 1340657212 \ 795630686 \ 977177020 \ 549455001$
56	$2^6 3^2 5^3 13^2 71 \times 233 \times 3389 \times 3697 \times 209441 \times 11573297 \times 25954853 \times 2358 \ 019578377$
57	$2^3 67 \times 7411 \times 3867223 \times 166696273 \times 64884 \ 772207861 \times 18014398 \ 487392147$
58	$2^4 5 \times 59^2 4409 \times 5279 \times 2404333 \times 5858430013 \times 262275 \ 432051949 \ 216739851$
59	$2^3 501029 \times 1289 \ 806126139 \times 37053731 \ 162462454 \ 538921404 \ 518644237$
60	$2^5 5^5 7^2 31 \times 67 \times 131 \times 661 \times 5233 \times 25801 \times 84061 \times 101581 \times 16164121 \times 4295021 \times 21726121$
61	$2^3 838079285 \ 830568099 \times 761699 \ 057756447 \times 2400 \ 660211275 \ 518008217$

62	$2^4 5 \times 373 \times 683 \times 5333 \times 1746169 \times 167365777 \times 794282683 \times 12\ 535147973 \times 310\ 120586219$
63	$2^3 19 \times 67 \times 71 \times 3697 \times 13177 \times 30241 \times 33019939 \times 50490091 \times 65\ 556708169 \times 6739\ 547497201$
64	$2^9 3^2 5^3 97^2 233 \times 257^2 1777 \times 4721 \times 42433 \times 14\ 957750273 \times 14\ 134472463\ 077671361$
65	$2^3 31 \times 131 \times 521 \times 1847 \times 2341 \times 37205923 \times 39\ 753253411 \times 4815\ 369082291 \times 96339\ 814438661$
66	$2^4 5 \times 7^2 67^2 727 \times 4027 \times 266641 \times 6185587 \times 858976273 \times 3633595681 \times 1514822\ 723189887$
67	$2^3 5210591 \times 3087716712\ 678242573 \times 24969779\ 542151050\ 089329477\ 822197009$
68	$2^5 5^3 443 \times 4999 \times 14621 \times 3080843 \times 635\ 383691387 \times 101\ 412048018\ 258264651\ 378374977$
69	$2^3 67 \times 742993 \times 26669053 \times 73\ 786976289\ 912576167 \times 262465534\ 491048619\ 382068141$
70	$2^4 5^2 31 \times 71^2 131 \times 211^2 281^2 661 \times 1051 \times 3697 \times 209441 \times 94042\ 656146321 \times 1129982\ 311077901$
71	$2^3 1847 \times 2699 \times 20023 \times 44021 \times 1428521 \times 54090499 \times 28\ 666950203 \times 169064\ 003506249\ 610298889$
72	$2^6 3^6 5^3 7^2 19^2 67 \times 193 \times 233 \times 5233 \times 5869 \times 9433 \times 13177 \times 14419 \times 11730997 \times 524\ 709519298\ 460618329$
73*	$2^3 293 \times 3788117 \times 94882923789375072648179967840056092910462282102380535401$
74	$2^4 5 \times 149 \times 2533169 \times 154389480\ 642741481 \times 1681557\ 848669057 \times 859783\ 484714515\ 050756761$
75	$2^3 31 \times 67 \times 131 \times 2251 \times 8101 \times 16164121 \times 3635651 \times 95893051 \times 401\ 063040751 \times 1879137451 \times 319\ 848642151$
76	$2^5 5^3 5701 \times 5888557 \times 14411518\ 825257457 \times 18014398\ 487392147 \times 12373\ 414937564\ 253010897$
77	$2^3 71 \times 3697 \times 4027 \times 10627 \times 42043 \times 266641 \times 1625\ 700750983 \times 2107063\ 715180220\ 786850837\ 763377823$
78	$2^4 5 \times 7^2 67 \times 131 \times 157 \times 1847 \times 2029 \times 3114152263 \times 37205923 \times 12\ 615463771 \times 419661763 \times 2223226331\ 913505309$
79	$2^3 317 \times 1423^2 5689 \times 15072327\ 260890343 \times 3027200564\ 641538759 \times 165688\ 542728731\ 220926003$
80	$2^7 3^2 5^3 31 \times 41^2 131 \times 233 \times 661 \times 1361 \times 1777 \times 4721 \times 21121 \times 4295021 \times 7742641 \times 794770481 \times 73239977\ 498691841$

Field Size: 8

$C1 = -1$

$A2 = 1$

$A6 = 0, Q, Q^2, \text{ or } Q^2 + Q$

n	N_n	X	Tier
1	10	1.0	1
2	80	2.0	2
3	490	1. 9129	1
4	4000	2. 9907	3
5	33050	1. 3797	1
6	262640	2. 7053	3
7	2094410	1.0	1
8	16776000	3. 0351	4
9	134240890	2. 1374	2
10	1073728400	3. 3195	4
11	8589762730	1.0	1
12	68 719756000	3. 2349	4
13	549 756909530	1. 455	1
14	4398 043181360	2. 8287	3
15	35184 366653450	2. 2248	2
16	281475 008784000	4. 0828	4
17	2251799 825094970	2. 9012	3
18	18014398 241485520	4. 1351	4
19	144115188 252574570	1.0	1
20	1152921506 574100000	3. 3223	4
21	9223372033 473773210	3. 4619	4
22	73 786976282 481184880	2. 8284	3
23	590 295810398 110694090	1. 965	1
24	4722 366482929 096344000	4. 9638	4
25	37778 931862582 470240250	2. 6289	3
26	302231 454903556 376103440	3. 4118	4
27	2417851 639232356 798740010	2. 2882	2
28	19342813 113831775 686556000	4. 0048	4
29	154742504 910650037 876512090	1. 1510	1
30	1237940039 285421100 254945200	4. 2188	4
31	9903520314 283181345 724200330	3. 1633	4

32	79 228162514 263871844 166176000	3. 5799	4
33	633 825300114 114053325 479724730	3. 8290	4
34	5070 602400912 921979404 706894160	3. 3615	4
35	40564 819207303 341653859 583523050	2. 9873	3
36	324518 553658426 690989847 787044000	4. 7747	4
37	2596148 429267413 843610835 750534170	2. 5793	3
38	20769187 434139310 771122863 599214320	2. 8119	3
39	166153499 473114483 621210303 565316170	4. 1539	4
40	1329227995 784915871 339565612 991400000	5. 08	5
41	10 633823966 279326988 728822561 289516410	2. 6622	3
42	85 070591730 234615872 859217357 206849680	4. 1854	4
43	680 564733841 876926875 746720731 897547690	3. 8534	4
44	5444 517870735 015415408 871689045 811884000	4. 7568	4
45	43556 142965880 123323725 091734181 921567450	2. 5098	3
46	348449 143727040 986586123 432266114 894024240	2. 8147	3
47	2787593 149816327 892689031 813961736 218745610	1.0	1
48	22300745 198530623 141541628 568719796 511536000	5. 1002	5
49	178405961 588244985 132303299 646069928 798303290	1. 9915	1
50	1427247692 705959881 058221133 616040619 587842000	4. 4977	4
51	11 417981541 647679048 466212163 710351313 853197930	2. 0633	2
52	91 343852333 181432387 730896323 320934640 063796000	5. 2244	5
53	730 750818665 451459101 842426814 673142134 068459930	2. 2969	2
54	5846 006549323 611672814 734566180 174479025 083886960	4. 2785	4
55	46768 052394588 893382517 919327953 761170139 670152650	2. 7689	3
56	374144 419156711 147060143 350611815 409287558 072504000	4. 6163	4
57	2993155 353253689 176481146 466518239 031670511 876293370	4. 0000	4
58	23945242 826029513 411849172 102616713 936582522 023823120	3. 0344	4
59	191561942 608236107 294793379 157473183 750481370 807017770	1.0	1
60	1532495540 865888858 358347027 959479584 280282355 731900000	5. 8095	5
61	12 259964326 927110866 866776210 283826781 903257899 647979610	1. 4597	1
62	98 079714615 416886934 934209738 065071233 353613029 184994480	5. 0305	5
63	784 637716923 335095479 473677955 862192027 413361971 136561290	2. 8083	2
64	6277 101735386 680763835 789423149 200258233 702039375 426624000	3. 8747	4
65	50216 813883093 446110686 315385280 566366570 545509495 826014650	1. 8790	1
66	401734 511064747 568885490 523086139 144855748 273732623 522025040	4. 5492	4
67	3213876 088517980 551083924 184684522 830517194 846648391 958111210	1. 8696	1
68	25711008 708143844 408671393 477449616 061080878 839146476 571716000	2. 8962	3
69	205688069 665150755 269371147 819660217 698334041 392913241 411614490	3. 7181	4

70	1645504557 321206042 154969182 557430985 041438759 935889775 200418800	4. 718	4
71	13 164036458 569648337 239753460 458792323 199247565 256602926 992755530	1. 106	1
72	105 312291668 557186697 918027683 669800195 088111605 942667939 292616000	3. 9942	4
73	842 498333348 457493583 344221469 364184408 268861877 495621187 875115130	1. 6856	1
74	6739 986666787 659948666 753771754 911999542 633877318 891935642 662159760	3. 6825	4
75	53919 893334301 279589334 030174039 251209284 076284012 574297613 362542250	5. 5206	5
76	431359 146674410 236714672 241392314 066267117 741148247 739839317 545164000	3. 9741	4
77	3450873 173395281 893717377 931138512 831840552 756186143 262756353 194372570	1. 5315	1
78	27606985 387162255 149739023 449108101 900278050 175479807 594341727 563311920	4. 5191	4
79	220855883 097298041 197912187 592864813 543041886 661846508 510108415 833679370	1. 6757	1
80	1766847064 778384329 583297500 742918516 039088583 028838728 387165515 275600000	4. 7839	4

n	Prime Factorization
1	2×5
2	$2^4 5$
3	$2 \times 5 \times 7^2$
4	$2^5 5^3$
5	$2 \times 5^2 661$
6	$2^4 5 \times 7^2 67$
7	$2 \times 5 \times 209441$
8	$2^6 3^2 5^3 233$
9	$2 \times 5 \times 7^2 19 \times 14419$
10	$2^4 5^2 31 \times 131 \times 661$
11	$2 \times 5 \times 858976273$
12	$2^5 5^3 7^2 67 \times 5233$
13	$2 \times 5 \times 131 \times 419661763$
14	$2^4 5 \times 71 \times 3697 \times 209441$
15	$2 \times 5^2 7^2 661 \times 21726121$
16	$2^7 3^2 5^3 233 \times 1777 \times 4721$
17	$2 \times 5 \times 4999 \times 14621 \times 3080843$
18	$2^4 5 \times 7^2 19^2 67 \times 13177 \times 14419$
19	$2 \times 5 \times 14411518 825257457$
20	$2^5 5^5 31 \times 131 \times 661 \times 4295021$
21	$2 \times 5 \times 7^4 421 \times 209441 \times 4356661$
22	$2^4 5 \times 4027 \times 266641 \times 858976273$
23	$2 \times 5 \times 47^2 2531 \times 10558 004428171$
24	$2^6 3^4 5^3 7^2 67 \times 193 \times 233 \times 5233 \times 9433$

25	$2 \times 5^3 101 \times 661 \times 18701 \times 121$ 038073501
26	$2^4 5 \times 131 \times 1847 \times 37205923 \times 419661763$
27	$2 \times 5 \times 7^2 19 \times 379 \times 14419 \times 47523$ 193390171
28	$2^5 5^3 71 \times 3389 \times 3697 \times 209441 \times 25954853$
29	$2 \times 5 \times 59 \times 262275$ 432051949 216739851
30	$2^4 5^2 7^2 31 \times 67 \times 131 \times 661 \times 16164121 \times 21726121$
31	$2 \times 5 \times 373 \times 683 \times 12$ 535147973 $\times 310$ 120586219
32	$2^8 3^2 5^3 97^2 233 \times 1777 \times 4721 \times 14$ 957750273
33	$2 \times 5 \times 7^2 67 \times 6185587 \times 858976273 \times 3633595681$
34	$2^4 5 \times 443 \times 4999 \times 14621 \times 3080843 \times 635$ 383691387
35	$2 \times 5^2 211 \times 281 \times 661 \times 1051 \times 209441 \times 94042$ 656146321
36	$2^5 5^3 7^2 19^2 67 \times 5233 \times 5869 \times 13177 \times 14419 \times 11730997$
37	$2 \times 5 \times 1681557$ 848669057 $\times 154389480$ 642741481
38	$2^4 5 \times 14411518$ 825257457 $\times 18014398$ 487392147
39	$2 \times 5 \times 7^2 131 \times 157 \times 3114152263 \times 419661763 \times 12$ 615463771
40	$2^6 3^2 5^5 31 \times 41^2 131 \times 233 \times 661 \times 21121 \times 4295021 \times 7742641$
41	$2 \times 5 \times 9103 \times 29879$ 906769491 $\times 3909540224$ 562486317
42	$2^4 5 \times 7^4 67 \times 71 \times 421 \times 3697 \times 209441 \times 4356661 \times 65$ 556708169
43	$2 \times 5 \times 678971 \times 11110943 \times 2058$ 616942747 $\times 4382$ 195545159
44	$2^5 5^3 4027 \times 4093 \times 34849 \times 50513 \times 204821 \times 266641 \times 858976273$
45	$2 \times 5^2 7^2 19 \times 661 \times 14419 \times 21726121 \times 4518$ 673207229 906998561
46	$2^4 5 \times 47^2 2531 \times 10558$ 004428171 $\times 73$ 786976289 912576167
47	$2 \times 5 \times 278759$ 314981632 789268903 181396173 621874561
48	$2^7 3^4 5^3 7^2 67 \times 193 \times 233 \times 1777 \times 4721 \times 5233 \times 9433 \times 1162321 \times 242148721$
49	$2 \times 5 \times 2549 \times 209441 \times 856717 \times 39$ 006810418 201113408 158106793
50	$2^4 5^3 31 \times 101 \times 131 \times 661 \times 18701 \times 3635651 \times 121$ 038073501 $\times 319$ 848642151
51	$2 \times 5 \times 7^2 4999 \times 14621 \times 3080843 \times 103$ 481681126 949140048 327745481
52	$2^5 5^3 131 \times 1847 \times 9049 \times 37205923 \times 4081098529 \times 163678633 \times 419661763$
53	$2 \times 5 \times 107 \times 4759826969 \times 27138439 \times 5287002357$ 304847728 579873589
54	$2^4 5 \times 7^2 19^2 67 \times 109 \times 379 \times 541 \times 919 \times 13177 \times 14419 \times 332472277 \times 47523$ 193390171
55	$2 \times 5^2 661 \times 858976273 \times 748$ 471317551 $\times 2201007$ 339530751 717082151
56	$2^6 3^2 5^3 13^2 71 \times 233 \times 3389 \times 3697 \times 209441 \times 11573297 \times 25954853 \times 2358$ 019578377
57	$2 \times 5 \times 7^2 2279773 \times 48$ 980534227 $\times 3795843$ 527600479 $\times 14411518$ 825257457
58	$2^4 5 \times 59^2 4409 \times 5279 \times 2404333 \times 5858430013 \times 262275$ 432051949 216739851
59	$2 \times 5 \times 19156194$ 260823610 729479337 915747318 375048137 080701777
60	$2^5 5^5 7^2 31 \times 67 \times 131 \times 661 \times 5233 \times 25801 \times 84061 \times 101581 \times 16164121 \times 4295021 \times 21726121$
61	$2 \times 5 \times 10$ 464392011 $\times 117158878$ 547742040 116761220 312083994 441091451
62	$2^4 5 \times 373 \times 683 \times 5333 \times 1746169 \times 167365777 \times 794282683 \times 12$ 535147973 $\times 310$ 120586219

63	$2 \times 5 \times 7^4 19 \times 421 \times 14419 \times 70687 \times 209441 \times 4356661 \times 4392898418 \ 174528592 \ 089913007$
64	$2^9 3^{25} 97^2 233 \times 257^2 1777 \times 4721 \times 42433 \times 14 \ 957750273 \times 14 \ 134472463 \ 077671361$
65	$2 \times 5^2 131 \times 661 \times 3511 \times 419661763 \times 7871 \ 838306217 \ 353635385 \ 427938289 \ 440293311$
66	$2^4 5 \times 7^2 67^2 727 \times 4027 \times 266641 \times 6185587 \times 858976273 \times 3633595681 \times 1514822 \ 723189887$
67	$2 \times 5 \times 7237 \times 222899 \ 039627777 \times 199233 \ 497298815 \ 779001329 \ 665544326 \ 847711229$
68	$2^5 5^3 443 \times 4999 \times 14621 \times 3080843 \times 635 \ 383691387 \times 101 \ 412048018 \ 258264651 \ 378374977$
69	$2 \times 5 \times 7^2 47^2 691 \times 1657 \times 2531 \times 679 \ 761908479 \times 10558 \ 004428171 \times 9136 \ 627965325 \ 805221093$
70	$2^4 5^2 31 \times 71^2 131 \times 211^2 281^2 661 \times 1051 \times 3697 \times 209441 \times 94042 \ 656146321 \times 1129982 \ 311077901$
71	$2 \times 5 \times 1279 \times 1029244 \ 445548838 \ 806664562 \ 428495605 \ 341923318 \ 808855090 \ 142845407$
72	$2^6 3^6 5^3 7^2 19^2 67 \times 193 \times 233 \times 5233 \times 5869 \times 9433 \times 13177 \times 14419 \times 11730997 \times 524 \ 709519298 \ 460618329$
73	$2 \times 5 \times 877 \times 162499 \times 250377007 \times 2361 \ 154038230 \ 586736582 \ 581250968 \ 686846374 \ 251247633$
74	$2^4 5 \times 149 \times 2533169 \times 154389480 \ 642741481 \times 1681557 \ 848669057 \times 859783 \ 484714515 \ 050756761$
75	$2 \times 5^3 7^2 101 \times 661 \times 18701 \times 108301 \times 235051 \times 12215101 \times 21726121 \times 121 \ 038073501 \times 437501551 \times 9854846101$
76	$2^5 5^3 5701 \times 5888557 \times 14411518 \ 825257457 \times 18014398 \ 487392147 \times 12373 \ 414937564 \ 253010897$
77	$2 \times 5 \times 209441 \times 858976273 \times 1918165731 \ 048761624 \ 693728996 \ 442810459 \ 199277329 \ 111777049$
78	$2^4 5 \times 7^2 67 \times 131 \times 157 \times 1847 \times 2029 \times 3114152263 \times 37205923 \times 12 \ 615463771 \times 419661763 \times 2223226331 \ 913505309$
79	$2 \times 5 \times 98909 \times 5194 \ 113263641 \times 42989435 \ 822916171 \ 726958798 \ 201577760 \ 171689240 \ 350854973$
80	$2^7 3^{25} 5^3 1 \times 41^2 131 \times 233 \times 661 \times 1361 \times 1777 \times 4721 \times 21121 \times 4295021 \times 7742641 \times 794770481 \times 73239977 \ 498691841$

Field Size: 8

C1= 3

A2= 1

A6= $Q+1$, Q^2+1 , Q^2+Q+1

n	N_n	X	Tier
1	6	1.0	1
2	72	2.0	2
3	558	1. 4422	1
4	4176	2. 2134	2
5	32646	1.0	1
6	261144	3. 3463	4
7	2095134	1. 6178	1
8	16779168	4. 02	4
9	134239734	1. 8695	1
10	1073792232	2. 8295	3
11	8589909774	1. 3298	1
12	68 718999024	4. 23	4
13	549 754579302	3. 1595	4
14	4398 046629048	2. 9718	3
15	35184 382319358	4. 0010	4
16	281475 006458688	3. 8103	4
17	2251799 821085142	1. 9658	1
18	18014398 293697416	3. 8298	4
19	144115187 369303022	1.0	1
20	1152921504 213464976	3. 1682	4
21	9223372041 327052614	3. 6063	4
22	73 786976311 402092888	2. 9190	3
23	590 295810372 619096542	2. 9296	3
24	4722 366482778 874456800	4. 2417	4
25	37778 931862573 541880246	2. 5347	3
26	302231 454903232 600243752	4. 8004	4
27	2417851 639231053 227748558	3. 4259	4
28	19342813 113842848 977769776	4. 7603	4
29	154742504 910684521 883113766	1. 5372	1
30	1237940039 285345980 001526264	5. 4186	5
21	9223372041 327052614	3. 6063	4

22	73 786976311 402092888	2. 9190	3
23	590 295810372 619096542	2. 9296	3
24	4722 366482778 874456800	4. 2417	4
25	37778 931862573 541880246	2. 5347	3
26	302231 454903232 600243752	4. 8004	4
27	2417851 639231053 227748558	3. 4259	4
28	19342813 113842848 977769776	4. 7603	4
29	154742504 910684521 883113766	1. 5372	1
30	1237940039 285345980 001526264	5. 4186	5
41	10 633823966 279326988 448534194 640084342	1.0	1
42	85 070591730 234615864 289136111 110596456	5. 3713	5
43	680 564733841 876926880 341045923 863431822	1. 1273	1
44	5444 517870735 015415287 205338063 924061296	2. 9781	3
45	43556 142965880 123323302 849960250 613029094	5. 1463	5
46	348449 143727040 986587482 605683838 432995128	4. 8412	4
47	2787593 149816327 892694998 605430294 285938302	1.0	1
48	22300745 198530623 141536923 675306446 523339200	5. 4893	5
49	178405961 588244985 132265091 818367154 318393686	2. 4901	2
50	1427247692 705959881 058214363 139771243 055527432	4. 503	4
51	11 417981541 647679048 466238171 569347312 915912558	4. 0383	4
52	91 343852333 181432387 730726143 165638540 675356176	5. 3234	5
53	730 750818665 451459101 844085325 548269489 673471686	3. 4368	4
54	5846 006549323 611672814 740944980 168759111 415194584	5. 2352	5
55	46768 052394588 893382517 906137526 912593159 238841694	4. 0762	4
56	374144 419156711 147060143 278734265 727480525 443219808	3. 4056	4
57	2993155 353253689 176481146 490154792 599887814 804937014	4.0	4
58	23945242 826029513 411849172 465007937 725351339 957141672	3. 5068	4
59	191561942 608236107 294793379 269126958 341208294 136641614	1.0	1
60	1532495540 865888858 358347028 450049260 934868504 390493104	5. 014	5
61	12 259964326 927110866 866776214 098987217 787373893 179959462	1. 9730	1
62	98 079714615 416886934 934209717 911408379 582651509 228838008	2. 8602	3
63	784 637716923 335095479 473677866 661053906 044786300 750073918	5. 4429	5
64	6277 101735386 680763835 789423262 441706758 239730176 445402368	4. 2588	4
65	50216 813883093 446110686 315386100 035185640 493566907 542693142	1. 964	1
66	401734 511064747 568885490 523086168 559875768 624193584 721479496	4. 1151	4
67*	3213876 088517980 551083924 184681449 301925486 414719683 075845422	1. 1740	1
68	25711008 708143844 408671393 477448950 657036746 176003885 479316816	3. 5901	4
69	205688069 665150755 269371147 819646867 397837834 613402304 020119174	4. 8183	4

70	1645504557 321206042 154969182 557361875 674271433 657360725 737279768	5. 3607	5
71	13 164036458 569648337 239753460 458804036 758400673 906099822 500014246	2. 9022	3
72	105 312291668 557186697 918027683 670432299 186716028 532458943 789276280	1. 6911	1
73	842 498333348 457493583 344221469 363458516 863515097 643245777 233580094	1. 3806	1
74	6739 986666787 659948666 753771754 907668464 061396291 027405988 313451776	2. 9683	3
75	53919 893334301 279589334 030174039 261347712 992701902 794973402 487088406	1. 5652	1
76*	431359 146674410 236714672 241392314 090779072 220005867 035445544 276641608	1. 2093	1
77	3450873 173395281 893717377 931138512 726224678 582966273 704735359 517142318	2. 2904	2
78*	27606985 387162255 149739023 449108101 809794784 905363044 496129297 009691984	1. 2164	1
79*	220855883 097298041 197912187 592864814 478413541 384448221 174405596 263120518	1. 1481	1
80	1766847064 778384329 583297500 742918515 827495267 567154526 145387063 681290520	2. 3608	2

n	Prime Factorization
1	2×3
2	$2^3 3^2$
3	$2 \times 3^2 31$
4	$2^4 3^2 29$
5	$2 \times 3 \times 5441$
6	$2^3 3^4 13 \times 31$
7	$2 \times 3 \times 29 \times 12041$
8	$2^5 3^2 7^2 29 \times 41$
9	$2 \times 3^3 31 \times 80191$
10	$2^3 3^2 2741 \times 5441$
11	$2 \times 3 \times 23 \times 62245723$
12	$2^4 3^4 13^2 29 \times 31 \times 349$
13	$2 \times 3 \times 131 \times 23869 \times 29303$
14	$2^3 3^2 29 \times 12041 \times 174931$
15	$2 \times 3^2 31^2 541 \times 691 \times 5441$
16	$2^6 3^2 7^2 29 \times 41 \times 353 \times 23761$
17	$2 \times 3 \times 239 \times 409 \times 3839346607$
18	$2^3 3^6 13 \times 31 \times 80191 \times 95581$
19	$2 \times 3 \times 24019197 \times 894883837$
20	$2^4 3^2 29 \times 2741 \times 5441 \times 18511921$
21	$2 \times 3^2 29 \times 31 \times 12041 \times 15373 \times 3079189$
22	$2^3 3^2 23 \times 62245723 \times 715829951$
23	$2 \times 3 \times 12973 \times 4203113 \times 1804292593$
24	$2^5 3^4 5^2 7^2 13^2 29 \times 31 \times 41 \times 349 \times 684121$
25	$2 \times 3 \times 101 \times 151^2 5441 \times 502 \times 509677701$

26	$2^3 3^2 131 \times 547 \times 859 \times 23869 \times 29303 \times 97501$
27	$2 \times 3^4 31 \times 163 \times 25111 \times 80191 \times 1466816203$
28	$2^4 3^2 29^2 12041 \times 174931 \times 221453 \times 342413$
29	$2 \times 3 \times 59 \times 4409 \times 99 \ 143960101 \ 310827931$
30	$2^3 3^4 13 \times 31^2 541 \times 691 \times 1381 \times 2741 \times 5441 \times 19861$
21	$2 \times 3^2 29 \times 31 \times 12041 \times 15373 \times 3079189$
22	$2^3 3^2 23 \times 62245723 \times 715829951$
23	$2 \times 3 \times 12973 \times 4203113 \times 1804292593$
24	$2^5 3^4 5^2 7^2 13^2 29 \times 31 \times 41 \times 349 \times 684121$
25	$2 \times 3 \times 101 \times 151^2 5441 \times 502 \ 509677701$
26	$2^3 3^2 131 \times 547 \times 859 \times 23869 \times 29303 \times 97501$
27	$2 \times 3^4 31 \times 163 \times 25111 \times 80191 \times 1466816203$
28	$2^4 3^2 29^2 12041 \times 174931 \times 221453 \times 342413$
29	$2 \times 3 \times 59 \times 4409 \times 99 \ 143960101 \ 310827931$
30	$2^3 3^4 13 \times 31^2 541 \times 691 \times 1381 \times 2741 \times 5441 \times 19861$
41	$2 \times 3 \times 1772303994 \ 379887831 \ 408089032 \ 440014057$
42	$2^3 3^4 13 \times 29 \times 31 \times 211 \times 1051 \times 12041 \times 15373 \times 174931 \times 508033 \times 3079189$
43	$2 \times 3 \times 173 \times 655650032 \ 602964284 \ 085106980 \ 658827969$
44	$2^4 3^2 23 \times 29 \times 62245723 \times 715829951 \times 1272189246 \ 177143449$
45	$2 \times 3^3 1^2 541 \times 691 \times 5441 \times 6121 \times 80191 \times 101341 \times 118891 \times 69774391$
46	$2^3 3^2 47^2 12973 \times 4203113 \times 45169793 \times 492997411 \times 1804292593$
47	$2 \times 3 \times 464598 \ 858302721 \ 315449166 \ 434238382 \ 380989717$
48	$2^6 3^4 5^2 7^2 13^2 29 \times 31 \times 41 \times 193 \times 349 \times 353 \times 23761 \times 123169 \times 684121 \times 11842177$
49	$2 \times 3 \times 29 \times 197 \times 12041 \times 108193 \times 3491447 \times 1144265 \ 264780391 \ 584376967$
50	$2^3 3^2 101 \times 151^2 1151 \times 2741 \times 5441 \times 141046951 \times 7074901 \times 502 \ 509677701$
51	$2 \times 3^2 31 \times 239 \times 307 \times 409 \times 1429 \times 4999 \times 107713 \times 3839346607 \times 230810 \ 065790113$
52	$2^4 3^2 29 \times 131 \times 547 \times 859 \times 23869 \times 29303 \times 97501 \times 3033473 \times 6519397 \times 263489981$
53	$2 \times 3 \times 8269 \times 10 \ 737166757 \times 293764 \ 302571273 \times 4669564189 \ 611118009$
54	$2^3 3^8 13 \times 31 \times 163^2 25111 \times 80191 \times 95581 \times 10302283 \times 3576421 \times 1466816203$
55	$2 \times 3 \times 23 \times 5441 \times 5020291 \times 2137301 \times 43839841 \times 62245723 \times 2127249 \ 378920711$
56	$2^5 3^2 7^4 29^2 41 \times 12041 \times 174931 \times 221453 \times 342413 \times 98 \ 245716286 \ 025561569$
57	$2 \times 3^2 31 \times 3307 \times 447451 \times 11 \ 944431853 \times 12635 \ 469516829 \times 24019197 \ 894883837$
58	$2^3 3^2 59^2 233^2 4409 \times 1951237 \times 2063 \ 262573643 \times 99 \ 143960101 \ 310827931$
59	$2 \times 3 \times 31926990 \ 434706017 \ 882465563 \ 211521159 \ 723534715 \ 689440269$
60	$2^4 3^4 13^2 29 \times 31^2 349 \times 541 \times 691 \times 1021 \times 1381 \times 2741 \times 5441 \times 19861 \times 18511921 \times 248 \ 900406901$
61	$2 \times 3 \times 149939 \times 6706 \ 084868111 \times 2032143164 \ 722704162 \ 922736388 \ 010193413$
62	$2^3 \times 3^2 \times 1427 \times 64109 \times 18042444191816451283 \times 825293359523603415337631131$
63	$2 \times 3^2 29 \times 31 \times 2017 \times 12041 \times 15373 \times 80191 \times 150571 \times \ 73596727 \times 3079189 \times 2755243 \times 5742049447$

64	$2^8 3^2 7^2 29 \times 41 \times 353 \times 929 \times 3137 \times 23761 \times 228737 \times 3115201 \times 48292481 \times 55593893 \times 870671489$
65	$2 \times 3 \times 131 \times 5441 \times 22751 \times 23869 \times 29303 \times 737 \times 906069444 \times 268685560 \times 843973582 \times 022395031$
66	$2^3 3^4 13 \times 23 \times 31 \times 397 \times 62245723 \times 715829951 \times 1998515 \times 464923781 \times 1891968284 \times 443015153$
67*	$2 \times 3 \times 46499 \times 11519516866018554345555546659359876204955971865773755263$
68	$2^4 3^2 29 \times 239 \times 409^2 2789 \times 21557 \times 8704828309 \times 3839346607 \times 76640 \times 749263904 \times 134042101$
69	$2 \times 3^2 31 \times 139 \times 9109 \times 12973 \times 292147 \times 4203113 \times 28671847 \times 1358197 \times 1804292593 \times 260106 \times 426428623$
70	$2^3 3^2 29 \times 71^2 2741 \times 5441 \times 12041 \times 174931 \times 14 \times 413941151 \times 246 \times 874520551 \times 1069625621 \times 1307506901$
71	$2 \times 3 \times 73 \times 83 \times 547 \times 150085471 \times 1434672266 \times 134710121 \times 3074 \times 384569880 \times 055515161 \times 112069687$
72	$2^3 3^2 5 \times 63353 \times 7040180549 \times 655 \times 881800947 \times 320545331 \times 132549883 \times 305964129 \times 060121959$
73	$2 \times 3^2 31 \times 180158729 \times 8380685478 \times 712782338 \times 691860757 \times 716222820 \times 863534308 \times 529002417$
74	$2^8 3^2 7 \times 1081937 \times 2596883 \times 6031679 \times 2027 \times 027045621 \times 12165 \times 400253096 \times 986031921 \times 467618003$
75	$2 \times 3 \times 13 \times 30145 \times 624781743 \times 22931376 \times 900562746 \times 874696027 \times 926500231 \times 742917815 \times 881560339$
76*	$2^3 3^2 31 \times 5021 \times 38490592796492209129779678164639882634429323365687324299371339$
77	$2 \times 3 \times 9787 \times 52369 \times 11072807 \times 911 \times 681277509 \times 111161 \times 170809270 \times 558635340 \times 696963083 \times 748155677$
78*	$2^4 3^2 179 \times 1009 \times 1061481173902685235031635802648452175677852804944937081479644751$
79*	$2 \times 3^2 31 \times 587 \times 674274401449866709402380696430012317287994789691976764101547862783$
80	$2^3 3^2 5 \times 14461 \times 28109 \times 1966471147 \times 14 \times 562864167 \times 421617 \times 238726514 \times 155232962 \times 244511076 \times 554699907$

Field Size: 8

 $C1 = -3$ $A2 = 0$ $A6 = Q+1, Q^2+1, Q^2+Q+1$

n	N_n	X	Tier
1	12	1.0	1
2	72	1.4142	1
3	468	1.4422	1
4	4176	1.8612	1
5	32892	1.0	1
6	261144	2.9812	3
7	2099172	1.0	1
8	16779168	3.6864	4
9	134195724	1.6975	1
10	1073792232	2.64	3
11	8589959412	1.0	1
12	68 718999024	3.9926	4
13	549 757048476	2.7309	3
14	4398 046629048	2.8282	3
15	35184 361858308	3.5044	4
16	281475 006458688	3.6488	4
17	2251799 806285356	1.7985	1
18	18014398 293697416	3.6851	4
19	144115188 782408724	1.0	1
20	1152921504 213464976	3.0603	4
21	9223372032 382499004	3.8018	4
22	73 786976311 402092888	2.8284	3
23	590 295810344 792206884	3.0076	4
24	4722 366482778 874456800	4.1209	4
25	37778 931863340 781538892	3.4194	4
26	302231 454903232 600243752	4.6741	4
27	2417851 639227463 471076148	4.0122	4
28	19342813 113842848 977769776	4.6439	4
29	154742504 910660546 841667292	2.7621	3
30	1237940039 285345980 001526264	5.2948	5
31	9903520314 283240984 051573572	1.0	1

32	79 228162514 264015598 148994688	4. 2584	4
33	633 825300114 114076455 667831404	2. 0727	2
34	5070 602400912 922054828 023780552	3. 7932	4
35	40564 819207303 332495712 339865172	4. 0906	4
36	324518 553658426 716248972 821024464	5. 3595	5
37	2596148 429267413 912685255 064920316	2. 1152	2
38	20769187 434139310 303135430 212363928	2. 7773	3
39	166153499 473114483 958575492 646110308	3. 4511	4
40	1329227995 784915875 054900670 783274528	4. 9479	4
41	10 633823966 279326978 012378769 845428876	1. 9898	1
42	85 070591730 234615864 289136111 110596456	5. 2833	5
43	680 564733841 876926973 157383803 209414004	3. 1691	4
44	5444 517870735 015415287 205338063 924061296	2. 9315	3
45	43556 142965880 123323321 049542282 049103644	3. 0217	4
46	348449 143727040 986587482 605683838 432995128	4. 7688	4
47	2787593 149816327 892688930 962731796 090556804	1. 7468	1
48	22300745 198530623 141536923 675306446 523339200	5. 4106	5
49	178405961 588244985 132306400 544006629 777292972	1. 4518	1
50	1427247692 705959881 058214363 139771243 055527432	4. 441	4
51	11 417981541 647679048 466337339 622574869 208033428	3. 5824	4
52	91 343852333 181432387 730726143 165638540 675356176	5. 2529	5
53	730 750818665 451459101 840747390 734750166 259071292	1. 641	1
54	5846 006549323 611672814 740944980 168759111 415194584	5. 1684	5
55	46768 052394588 893382517 923156315 200664820 443908772	4. 0416	4
56	374144 419156711 147060143 278734265 727480525 443219808	3. 3637	4
57	2993155 353253689 176481146 584651102 648622884 891092684	3. 7527	4
58	23945242 826029513 411849172 465007937 725351339 957141672	3. 4651	4
59	191561942 608236107 294793377 518450337 563476486 409258932	2. 7243	3
60	1532495540 865888858 358347028 450049260 934868504 390493104	4. 9564	4
61	12 259964326 927110866 866776220 305959720 112452061 757675356	3. 9822	4
62	98 079714615 416886934 934209717 911408379 582651509 228838008	2. 8284	3
63	784 637716923 335095479 473677935 255550119 544074815 258554308	3. 1716	4
64	6277 101735386 680763835 789423262 441706758 239730176 445402368	4. 2130	4
65	50216 813883093 446110686 315385222 627471997 193544517 009513196	3. 1224	4
66	401734 511064747 568885490 523086168 559875768 624193584 721479496	4. 0721	4
67*	3213876 088517980 551083924 184683201 108163325 560411488 265360084	1. 0871	1
68	25711008 708143844 408671393 477448950 657036746 176003885 479316816	3. 5537	4
69	205688069 665150755 269371147 819690758 847846131 794992661 817033084	4. 8660	4

70	1645504557 321206042 154969182 557361875 674271433 657360725 737279768	5. 3079	5
71	13 164036458 569648337 239753460 458804042 965373176 231177991 077730140	1. 5277	1
72	105 312291668 557186697 918027683 670432299 186716028 532458943 789276280	1. 6749	1
73*	842 498333348 457493583 344221469 363458585 458011311 142534291 742060484	1. 0631	1
74	6739 986666787 659948666 753771754 907668464 061396291 027405988 313451776	2. 9406	3
75	53919 893334301 279589334 030174039 261346835 584988259 494951011 953908460	2. 1221	2
76*	431359 146674410 236714672 241392314 090779072 220005867 035445544 276641608	1. 1983	1
77	3450873 173395281 893717377 931138512 726226430 389204112 850427164 706656980	3. 1810	4
78*	27606985 387162255 149739023 449108101 809794784 905363044 496129297 009691984	1. 2057	1
79*	220855883 097298041 197912187 592864814 478457432 834456518 355995954 060034428	1. 4653	1
80	1766847064 778384329 583297500 742918515 827495267 567154526 145387063 681290520	2. 3404	2

n	Prime Factorization
1	2^23
2	2^33^2
3	2^23^213
4	2^43^229
5	$2^23 \times 2741$
6	$2^33^413 \times 31$
7	$2^23 \times 174931$
8	$2^53^27^229 \times 41$
9	$2^23^313 \times 95581$
10	$2^33^22741 \times 5441$
11	$2^23 \times 715829951$
12	$2^43^413^229 \times 31 \times 349$
13	$2^23 \times 547 \times 859 \times 97501$
14	$2^33^229 \times 12041 \times 174931$
15	$2^23^213 \times 1381 \times 2741 \times 19861$
16	$2^63^27^229 \times 41 \times 353 \times 23761$
17	$2^23 \times 21557 \times 8704828309$
18	$2^33^613 \times 31 \times 80191 \times 95581$
19	$2^23 \times 12009599 \times 065200727$
20	$2^43^229 \times 2741 \times 5441 \times 18511921$
21	$2^23^213 \times 211 \times 1051 \times 174931 \times 508033$
22	$2^33^223 \times 62245723 \times 715829951$
23	$2^23 \times 47^245169793 \times 492997411$
24	$2^53^45^27^213^229 \times 31 \times 41 \times 349 \times 684121$
25	$2^23 \times 1151 \times 2741 \times 7074901 \times 141046951$

26	$2^3 3^2 131 \times 547 \times 859 \times 23869 \times 29303 \times 97501$
27	$2^3 3^4 13 \times 163 \times 95581 \times 3576421 \times 10302283$
28	$2^4 3^2 29^2 12041 \times 174931 \times 221453 \times 342413$
29	$2^2 3 \times 59 \times 233^2 1951237 \times 2063 \times 262573643$
30	$2^3 3^4 13 \times 31^2 541 \times 691 \times 1381 \times 2741 \times 5441 \times 19861$
31	$2^2 3 \times 825293359 \times 523603415 \times 337631131$
32	$2^7 3^7 29 \times 41 \times 353 \times 929 \times 3137 \times 23761 \times 48292481$
33	$2^2 3^2 13 \times 715829951 \times 1891968284 \times 443015153$
34	$2^3 3^2 239 \times 409 \times 21557 \times 3839346607 \times 8704828309$
35	$2^2 3 \times 71^2 2741 \times 174931 \times 1069625621 \times 1307506901$
36	$2^4 3^6 13^2 29 \times 31 \times 349 \times 541 \times 829 \times 80191 \times 95581 \times 152641$
37	$2^2 3 \times 1091 \times 521876177 \times 198 \times 205557910 \times 292194309$
38	$2^3 3^2 12009599 \times 065200727 \times 24019197 \times 894883837$
39	$2^2 3^2 13^2 547 \times 859 \times 97501 \times 41153191 \times 14485 \times 290566059$
40	$2^5 3^7 29 \times 41^2 1481 \times 2741 \times 5441 \times 9001 \times 525001 \times 18511921$
41	$2^2 3 \times 25339 \times 70322053 \times 497310 \times 018044905 \times 187712119$
42	$2^3 3^4 13 \times 29 \times 31 \times 211 \times 1051 \times 12041 \times 15373 \times 174931 \times 508033 \times 3079189$
43	$2^2 3 \times 4406813 \times 15191987 \times 51821881 \times 16346915 \times 582821297$
44	$2^4 3^2 23 \times 29 \times 62245723 \times 715829951 \times 1272189246 \times 177143449$
45	$2^2 3^3 13 \times 1381 \times 2741 \times 4861 \times 19861 \times 95581 \times 888139713 \times 840827941$
46	$2^3 3^2 47^2 12973 \times 4203113 \times 45169793 \times 492997411 \times 1804292593$
47	$2^2 3 \times 100769 \times 2413357 \times 955 \times 211678131 \times 035360926 \times 369166199$
48	$2^6 3^4 5^2 7^2 13^2 29 \times 31 \times 41 \times 193 \times 349 \times 353 \times 23761 \times 123169 \times 684121 \times 11842177$
49	$2^2 3 \times 491 \times 174931 \times 173093135 \times 735032286 \times 915417796 \times 351738761$
50	$2^3 3^2 101 \times 151^2 1151 \times 2741 \times 5441 \times 141046951 \times 7074901 \times 502 \times 509677701$
51	$2^2 3^2 13 \times 307 \times 13873 \times 21557 \times 587827 \times 8704828309 \times 51932192 \times 735132161$
52	$2^4 3^2 29 \times 131 \times 547 \times 859 \times 23869 \times 29303 \times 97501 \times 3033473 \times 6519397 \times 263489981$
53	$2^2 3 \times 584167 \times 430891 \times 241926599 \times 847467082 \times 399713083 \times 060424153$
54	$2^3 3^8 13 \times 31 \times 163^2 25111 \times 80191 \times 95581 \times 10302283 \times 3576421 \times 1466816203$
55	$2^2 3 \times 2531 \times 2741 \times 1006391 \times 715829951 \times 458 \times 801878811 \times 1699671 \times 765598511$
56	$2^5 3^7 2^4 29^2 41 \times 12041 \times 174931 \times 221453 \times 342413 \times 98 \times 245716286 \times 025561569$
57	$2^2 3^2 13 \times 1166781 \times 701524357 \times 12009599 \times 065200727 \times 456420651 \times 982618717$
58	$2^3 3^2 59^2 233^2 4409 \times 1951237 \times 2063 \times 262573643 \times 99 \times 143960101 \times 310827931$
59	$2^2 3 \times 119 \times 029920403 \times 402576 \times 159940723 \times 333137705 \times 630139284 \times 988948119$
60	$2^4 3^4 13^2 29 \times 31^2 349 \times 541 \times 691 \times 1021 \times 1381 \times 2741 \times 5441 \times 19861 \times 18511921 \times 248 \times 900406901$
61	$2^2 3 \times 23 \times 297922761 \times 11 \times 318888551 \times 15354307 \times 130638447 \times 252322949 \times 165289389$
62	$2^3 3^2 1427 \times 64109 \times 18 \times 042444191 \times 816451283 \times 825293359 \times 523603415 \times 337631131$
63	$2^2 3^3 13 \times 127^2 211 \times 1051 \times 10711 \times 95581 \times 174931 \times 508033 \times 1717311 \times 855088377 \times 533878831$

64	$2^8 3^{27} 29 \times 41 \times 353 \times 929 \times 3137 \times 23761 \times 228737 \times 3115201 \times 48292481 \times 55593893$ 870671489
65	$2^3 3 \times 131 \times 547 \times 859 \times 1301 \times 2741 \times 71761 \times 97501 \times 90330761 \times 30164530$ 459909095 468913631
66	$2^3 3^4 13 \times 23 \times 31 \times 397 \times 62245723 \times 715829951 \times 1998515$ 464923781 $\times 1891968284$ 443015153
67*	$2^3 \times 269 \times 995624562737912190546444914709789686543781152543831556803$
68	$2^4 3^{29} \times 239 \times 409^2 2789 \times 21557 \times 8704828309 \times 3839346607 \times 76640$ 749263904 134042101
69	$2^3 3^2 13 \times 47^2 139 \times 277 \times 16699 \times 42643 \times 45169793 \times 492997411 \times 4941$ 735100873 $\times 65942$ 065841023
70	$2^3 3^{29} \times 71^2 2741 \times 5441 \times 12041 \times 174931 \times 14$ 413941151 $\times 246$ 874520551 $\times 1069625621 \times 1307506901$
71	$2^3 \times 5 \times 29^2 2053 \times 1351621 \times 94015$ 173127841 761674779 598091462 245139334 381291993
72	$2^3 3^{25} \times 63353 \times 7040180549 \times 655$ 881800947 320545331 132549883 305964129 060121959
73*	$2^3 3^2 \times 29 \times 806990740755227484275233928610501397112507673669676756984427261$
74	$2^8 3^{27} \times 1081937 \times 2596883 \times 6031679 \times 2027$ 027045621 $\times 12165$ 400253096 986031921 467618003
75	$2^3 \times 5 \times 229 \times 302681 \times 9284059$ 870961269 $\times 1396494$ 401863775 302693888 339968521 438287061
76*	$2^3 3^{31} \times 5021 \times 38490592796492209129779678164639882634429323365687324299371339$
77	$2^3 \times 5 \times 13 \times 97 \times 477075481 \times 32456591 \times 2576871571 \times 1978859161 \times 577$ 650298050 762864345 443245603
78*	$2^4 3^2 179 \times 1009 \times 1061481173902685235031635802648452175677852804944937081479644751$
79*	$2^3 3^4 \times 601 \times 8423 \times 94109 \times 1430841509637897338606089913593100853201088979632127307221$
80	$2^3 3^{25} \times 14461 \times 28109 \times 1966471147 \times 14$ 562864167 $\times 421617$ 238726514 155232962 244511076 554699907

Field Size 8

C1=5

A2= 0

A6= 1

n	N _n	X	Tier
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2	56	1. 4142	1
3	508	1.0	1
4	4144	2. 3003	2
5	33044	1. 6154	1
6	263144	2. 8339	3
7	2099948	2. 7686	3
8	16783200	4. 2838	4
9	134225284	3. 0169	4
10	1073731736	3. 5919	4
11	8589823708	2. 5918	3
12	68 719003024	3. 6081	4
13	549 754332404	1. 7946	1
14	4398 042893384	4. 7058	4
15	35184 365852108	2. 5199	3
16	281474 974468800	3. 6396	4
17	2251799 852369764	1. 8433	1
18	18014398 720839416	4. 8093	4
19	144115188 823166908	1. 8591	1
20	1152921506 652542704	4. 4829	4
21	9223372041 104766164	4. 0724	4
22	73 786976299 722592424	4. 5535	4
23	590 295810349 127658668	2. 4046	2
24	4722 366482782 680160800	4. 1355	4
25	37778 931862598 960389444	4. 5847	4
26	302231 454902562 007499096	3. 7891	4
27	2417851 639226647 529086108	2. 9187	3
28	19342813 113829774 983087184	5. 4637	5
29	154742504 910671961 863942324	4. 1731	4
30	1237940039 285411746 904576264	4. 3067	4
31	9903520314 283204139 207839628	3. 3175	4

32	79 228162514 264895517 574563200	3. 8312	4
33	633 825300114 116194848 385900324	3. 3274	4
34	5070 602400912 920613094 739406776	3. 8401	4
35	40564 819207303 343930633 861117308	4. 7185	4
36	324518 553658426 718139989 400620464	5. 6185	5
37	2596148 429267413 746387500 196468884	3. 4783	4
38	20769187 434139310 243878578 435820904	3. 8565	4
39	166153499 473114483 304780831 874874988	2. 1854	2
40	1329227995 784915871 024779062 027980000	4. 7948	4
41	10 633823966 279326980 300876896 262278404	3. 1411	4
42	85 070591730 234615866 227977914 058578456	5. 6639	5
43	680 564733841 876926952 107481831 962876508	3. 5853	4
44	5444 517870735 015415537 710445301 491446544	4. 2074	4
45	43556 142965880 123323727 667247484 919753844	5. 2755	5
46	348449 143727040 986587584 451680077 991462344	4. 3859	4
47	2787593 149816327 892694083 312461033 193404748	1. 9419	1
48	22300745 198530623 141537600 085188722 788315200	5. 7379	5
49	178405961 588244985 132278207 016848794 418259684	4. 3152	4
50	1427247692 705959881 058233219 127481757 976150136	5. 4757	5
51	11 417981541 647679048 466084317 300598980 065659708	4. 8114	4
52	91 343852333 181432387 729706855 866985200 766989424	4. 1749	4
53	730 750818665 451459101 841067920 000889077 292805204	3. 494	4
54	5846 006549323 611672814 737350185 634603092 193196584	4. 2843	4
55	46768 052394588 893382517 915531028 694217337 544228908	3. 2236	4
56	374144 419156711 147060143 337441342 620777909 541072800	5. 8555	5
57	2993155 353253689 176481146 631659957 362278522 275540164	4. 9185	4
58	23945242 826029513 411849172 608380836 342190734 441177816	4. 8275	4
59	191561942 608236107 294793379 185518846 788896689 138042908	3. 3189	4
60	1532495540 865888858 358347028 635702135 016327131 252593104	4. 4787	4
61	12 259964326 927110866 866776218 295596635 245418631 893030964	2. 492	2
62	98 079714615 416886934 934209731 202259971 896128019 319679624	5. 1517	5
63	784 637716923 335095479 473677860 125677783 914506320 456307468	5. 4089	5
64	6277 101735386 680763835 789423054 843517195 581229679 741356800	5. 5362	5
65	50216 813883093 446110686 315385223 877828116 011875691 194375844	3. 6463	4
66	401734 511064747 568885490 523084325 966318290 783763867 145437496	4. 1371	4
67	3213876 088517980 551083924 184681001 411488728 817596599 007482108	3. 759	4
68	25711008 708143844 408671393 477459700 147074941 768134400 556321584	5. 5128	5
69	205688069 665150755 269371147 819684896 004885869 901997952 181039124	4. 2856	4

70	1645504557 321206042 154969182 557422131 339197748 181704488 128927464	6. 1439	5
71	13 164036458 569648337 239753460 459033508 587845244 226858276 590760428	4. 5450	4
72	105 312291668 557186697 918027683 671006651 673191935 955211105 077871200	5. 4183	5
73	842 498333348 457493583 344221469 364494465 243579328 157634329 907182724	2. 3129	2
74	6739 986666787 659948666 753771754 908253317 475413970 718042946 864225176	5. 0064	5
75	53919 893334301 279589334 030174039 255984502 572857768 901621198 673913308	4. 4619	4
76	431359 146674410 236714672 241392314 059285070 216357403 343611247 337758864	4. 1188	4
77	3450873 173395281 893717377 931138512 611662107 741967462 143877278 353437684	4. 556	4
78	27606985 387162255 149739023 449108101 488932194 923318857 080821461 512716104	4. 1813	4
79*	220855883 097298041 197912187 592864813 790581856 235580773 135689468 316867788	1. 9652	1
80	1766847064 778384329 583297500 742918514 955193670 229162488 092678750 128920000	5. 4238	5

n	Prime Factorization
1	2^2
2	2^{37}
3	$2^2 127$
4	$2^4 7 \times 37$
5	$2^2 11 \times 751$
6	$2^3 7 \times 37 \times 127$
7	$2^2 29 \times 43 \times 421$
8	$2^5 3^4 5^2 7 \times 37$
9	$2^2 127 \times 163 \times 1621$
10	$2^3 7 \times 11^2 211 \times 751$
11	$2^2 23^2 67 \times 60589$
12	$2^4 7 \times 37^2 127 \times 3529$
13	$2^2 2003 \times 68616367$
14	$2^3 7^3 29 \times 43^2 71 \times 421$
15	$2^2 11 \times 127 \times 751 \times 8384041$
16	$2^6 3^4 5^2 7 \times 37 \times 113 \times 74209$
17	$2^2 137 \times 239 \times 17 \times 192986687$
18	$2^3 7 \times 37 \times 109 \times 127 \times 163 \times 1621 \times 2377$
19	$2^2 130873 \times 275 \times 295876199$
20	$2^4 7 \times 11^2 37 \times 211 \times 541 \times 751 \times 26821$
21	$2^2 29 \times 43 \times 127^2 421 \times 757 \times 359731$
22	$2^3 7 \times 23^2 67^2 991 \times 9241 \times 60589$
23	$2^2 277 \times 2095853 \times 254 \times 196239707$
24	$2^5 3^6 5^2 7 \times 37^2 127 \times 3529 \times 1885321$
25	$2^2 11 \times 151^2 751 \times 5051 \times 35851 \times 276901$

26	$2^3 \times 53 \times 79^2 \times 2003 \times 118717 \times 68616367$
27	$2^2 \times 127 \times 163 \times 1621 \times 108217 \times 166\,456142911$
28	$2^4 \times 7^3 \times 29^2 \times 37 \times 43^2 \times 71 \times 281 \times 421 \times 673 \times 10837$
29	$2^8 \times 353 \times 16067 \times 25579 \times 286927 \times 39275107$
30	$2^3 \times 11^2 \times 37 \times 127 \times 211 \times 751 \times 8384041 \times 29264761$
31	$2^3 \times 73 \times 26016379 \times 1439393 \times 177\,253384597$
32	$2^7 \times 3^4 \times 5^2 \times 37 \times 113 \times 32993 \times 74209 \times 4265677249$
33	$2^2 \times 3^2 \times 67 \times 127 \times 60589 \times 621721 \times 934\,514538409$
34	$2^3 \times 137 \times 239 \times 65587 \times 2452358563 \times 17\,192986687$
35	$2^2 \times 11 \times 29 \times 43 \times 211 \times 421 \times 751 \times 1051 \times 15541 \times 25621 \times 26481841$
36	$2^4 \times 7 \times 37^2 \times 109^2 \times 127 \times 163 \times 1621 \times 2377 \times 3529 \times 7561 \times 83701$
37	$2^2 \times 149 \times 25309 \times 123433 \times 230603167 \times 6046\,606703971$
38	$2^3 \times 130873 \times 262543 \times 39\,208594219 \times 275\,295876199$
39	$2^2 \times 127 \times 2003 \times 68616367 \times 2379\,781648506\,254133961$
40	$2^5 \times 3^4 \times 5^4 \times 7 \times 11^2 \times 37 \times 211 \times 541 \times 751 \times 26821 \times 58321 \times 195244921$
41	$2^7 \times 39 \times 590647 \times 549\,756390943 \times 11078647\,589794579$
42	$2^3 \times 7^3 \times 29 \times 37 \times 43^2 \times 71 \times 127^2 \times 379 \times 421 \times 631 \times 757 \times 359731 \times 497701$
43	$2^2 \times 1033 \times 22877 \times 93053 \times 317\,825364049 \times 243439\,542566551$
44	$2^4 \times 7 \times 23^2 \times 37 \times 67^2 \times 991 \times 9241 \times 60589 \times 2097349 \times 475\,419828181$
45	$2^2 \times 11 \times 127 \times 163 \times 541 \times 751 \times 1621 \times 408241 \times 8384041 \times 618571 \times 34294591$
46	$2^3 \times 7 \times 277 \times 4196903 \times 1087027 \times 2095853 \times 9242137 \times 254\,196239707$
47	$2^4 \times 965269 \times 7086097 \times 19\,807037433\,115734360\,131039959$
48	$2^6 \times 3^6 \times 5^2 \times 7 \times 17^2 \times 37^2 \times 113 \times 127 \times 3529 \times 74209 \times 459649 \times 1885321 \times 2119681$
49	$2^2 \times 29 \times 43 \times 421 \times 32341 \times 2693237 \times 1801927 \times 158240503 \times 3420\,723394579$
50	$2^3 \times 11^2 \times 151^2 \times 211 \times 751 \times 1051 \times 1451 \times 5051 \times 17851 \times 35851 \times 276901 \times 42708451$
51	$2^2 \times 127 \times 137 \times 239 \times 613 \times 557533 \times 45\,660789091 \times 2558476099 \times 17\,192986687$
52	$2^4 \times 7 \times 37 \times 53^2 \times 79^2 \times 2003 \times 118717 \times 633257 \times 68616367 \times 121689\,210448261$
53	$2^2 \times 107 \times 21044\,858204113 \times 27774\,518010073 \times 2921009749\,843413607$
54	$2^3 \times 7 \times 37 \times 109 \times 127 \times 163^2 \times 1621 \times 2377 \times 108217 \times 166\,456142911 \times 110524\,002744079$
55	$2^2 \times 11^2 \times 23^2 \times 67 \times 331 \times 751 \times 60589 \times 133981 \times 1050281 \times 1286\,361427005\,323208541$
56	$2^5 \times 3^4 \times 5^2 \times 7^3 \times 13^2 \times 29^2 \times 37 \times 43^2 \times 71 \times 281 \times 421 \times 673 \times 2017 \times 7393 \times 10837 \times 195049 \times 9716449$
57	$2^2 \times 127 \times 28387 \times 130873 \times 4955572477 \times 58245679 \times 19\,958998249 \times 275\,295876199$
58	$2^3 \times 7 \times 6323 \times 8353 \times 16067 \times 25579 \times 31147 \times 42457 \times 286927 \times 39275107 \times 1321\,882577593$
59	$2^2 \times 14321189 \times 10\,063074221 \times 38008\,513535617 \times 8742\,962262356\,024779399$
60	$2^4 \times 7 \times 11^2 \times 37^2 \times 127 \times 211 \times 541 \times 751 \times 3529 \times 26821 \times 29264761 \times 8384041 \times 326696\,137901281$
61	$2^3 \times 539 \times 2684977 \times 162888\,033982417 \times 1980\,244889809\,248889831\,966373791$
62	$2^3 \times 7 \times 373 \times 26041 \times 41231 \times 26016379 \times 1439393 \times 1085663587 \times 606854761 \times 177\,253384597$
63	$2^2 \times 29 \times 43 \times 127^2 \times 163 \times 379 \times 421 \times 757 \times 1621 \times 4159 \times 28351 \times 117937 \times 359731 \times 4775653 \times 12\,791735839$

64	$2^8 3^4 5^{27} \times 37 \times 113 \times 193^2 32993 \times 54721 \times 74209 \times 11127041 \times 455809 \times 3831937 \times 4265677249$
65	$2^{211} \times 751 \times 2003 \times 6973591 \times 68616367 \times 418616 \times 258967271 \times 3787 \times 697672150 \times 161394041$
66	$2^3 7 \times 23^2 37 \times 67^2 127 \times 991 \times 9241 \times 60589 \times 621721 \times 934 \times 514538409 \times 1994216859 \times 558011089$
67	$2^{2011} \times 7639 \times 31357 \times 76589041 \times 59139427 \times 155 \times 338095949 \times 2370 \times 633018766 \times 361591713$
68	$2^4 7 \times 37 \times 137^2 239 \times 65587 \times 24 \times 828813073 \times 62699333 \times 321283477 \times 2452358563 \times 17 \times 192986687$
69	$2^{2127} \times 277 \times 3313 \times 2095853 \times 254 \times 196239707 \times 654741691 \times 127410321 \times 1264865214 \times 328402033$
70	$2^3 7^3 11^2 29 \times 43^2 71^2 11^2 421 \times 491 \times 631 \times 751 \times 1051 \times 1471 \times 2311 \times 9661 \times 11551 \times 15541 \times 25621 \times 26481841$
71	$2^{2107069} \times 42 \times 800898193 \times 68004076 \times 816051447 \times 1915453 \times 229548849 \times 5513228 \times 015079457$
72	$2^5 3^8 5^{27} \times 37^2 109^2 127 \times 163 \times 1621 \times 2377 \times 3529 \times 7561 \times 83701 \times 1885321 \times 1373096449 \times 382 \times 131765289$
73	$2^{227449} \times 162499 \times 86020738 \times 150056119 \times 548 \times 944798382 \times 649124939 \times 467800859 \times 357509749$
74	$2^3 7 \times 149 \times 1999 \times 4663 \times 25309 \times 123433 \times 260999 \times 263293 \times 230603167 \times 6046 \times 606703971 \times 289497 \times 699619339$
75	$2^{211} \times 127 \times 151^2 751 \times 5051 \times 35851 \times 86851 \times 276901 \times 8384041 \times 5922 \times 719496901 \times 2605831005 \times 390659551$
76	$2^4 7 \times 37 \times 2129 \times 130873 \times 262543 \times 64555541 \times 275 \times 295876199 \times 39 \times 208594219 \times 2042 \times 107495980 \times 164268181$
77	$2^{223229} \times 43 \times 67 \times 421 \times 3697 \times 36037 \times 60589 \times 81929 \times 225611 \times 13249699 \times 13 \times 976077501 \times 1678065392 \times 738445481$
78	$2^3 7 \times 37 \times 53 \times 79^2 127 \times 2003 \times 118717 \times 2103193 \times 68616367 \times 3883806 \times 996241537 \times 2379 \times 781648506 \times 254133961$
79*	$2^{2149627} \times 70245379 \times 14377452373 \times 365375409332471705239319751738521392793684836183$
80	$2^6 3^4 5^4 7 \times 11^2 37 \times 113 \times 211 \times 401 \times 541 \times 751 \times 26821 \times 58321 \times 74209 \times 12132401 \times 2045761 \times 195244921 \times 7963 \times 214925121$

Field Size: 8

C1= -5

A2= 1

A6= 1

n	N _n	X	Tier
1	14	1.0	1
2	56	1.4142	1
3	518	1.0	1
4	4144	1.6818	1
5	32494	1.6154	1
6	263144	2.2999	2
7	2094358	2.9841	3
8	16783200	3.6628	4
9	134210174	2.5155	3
10	1073731736	3.1689	4
11	8590045478	2.7440	3
12	68 719003024	3.2504	4
13	549 757295374	2.6581	3
14	4398 042893384	4.303	4
15	35184 378325558	2.1327	2
16	281474 974468800	3.3655	4
17	2251799 775000734	1.9202	1
18	18014398 720839416	4.4860	4
19	144115187 328544838	1.9285	1
20	1152921506 652542704	4.2108	4
21	9223372032 604785454	3.7777	4
22	73 786976299 722592424	4.3014	4
23	590 295810368 283644758	3.5514	4
24	4722 366482782 680160800	3.9252	4

25	37778 931863315 363029694	3. 5647	4
26	302231 454902562 007499096	3. 6108	4
27	2417851 639231869 169738598	2. 1903	2
28	19342813 113829774 983087184	5. 2246	5
29	154742504 910673106 860838734	2. 7899	3
30	1237940039 285411746 904576264	4. 1305	4
31	9903520314 282880259 178147958	3. 7553	4
32	79 228162514 264895517 574563200	3. 6841	4
33	633 825300114 113206648 317305054	2. 0598	2
34	5070 602400912 920613094 739406776	3. 7012	4
35	40564 819207303 337765155 144026758	5. 6790	5
36	324518 553658426 718139989 400620464	5. 4264	5
37	2596148 429267413 882142996 132751214	3. 0287	4
38	20769187 434139310 243878578 435820904	3. 7315	4
39	166153499 473114484 921170933 195211158	2. 9784	3
40	1329227995 784915871 024779062 027980000	4. 6470	4
41	10 633823966 279326986 160036068 223234814	4. 3771	4
42	85 070591730 234615866 227977914 058578456	5. 4974	5
43	680 564733841 876926901 390947895 109969318	2. 3127	2
44	5444 517870735 015415537 710445301 491446544	4. 0893	4
45	43556 142965880 123322896 232255047 742378894	3. 1368	4
46	348449 143727040 986587584 451680077 991462344	4. 2681	4
47	2787593 149816327 892689846 255701057 183090358	2. 2886	2
48	22300745 198530623 141537600 085188722 788315200	5. 59	5
49	178405961 588244985 132293285 345524989 677426974	4. 3658	4
50	1427247692 705959881 058233219 127481757 976150136	5. 3402	5
51	11 417981541 647679048 466491193 891323202 058286278	2. 8019	3
52	91 343852333 181432387 729706855 866985200 766989424	4. 0755	4
53	730 750818665 451459101 843764796 282130578 639737774	2. 6215	3
54	5846 006549323 611672814 737350185 634603092 193196584	4. 186	4
55	46768 052394588 893382517 913762813 419040642 138521558	3. 8123	4
56	374144 419156711 147060143 337441342 620777909 541072800	5. 7259	5

57	2993155 353253689 176481146 443145937 886232177 420489534	3. 0238	4
58	23945242 826029513 411849172 608380836 342190734 441177816	4. 7244	4
59	191561942 608236107 294793377 602058449 115788091 407857638	3. 8880	4
60	1532495540 865888858 358347028 635702135 016327131 252593104	4. 3862	4
61	12 259964326 927110866 866776216 109350302 654407323 044603854	3. 2429	4
62	98 079714615 416886934 934209731 202259971 896128019 319679624	5. 0486	5
63	784 637716923 335095479 473677941 790926241 674354795 552320758	4. 2426	4
64	6277 101735386 680763835 789423054 843517195 581229679 741356800	5. 4289	5
65	50216 813883093 446110686 315386098 784829521 675235733 357830494	4. 5839	4
66	401734 511064747 568885490 523084325 966318290 783763867 145437496	4. 0593	4
67	3213876 088517980 551083924 184683648 998600083 157534572 333723398	2. 6195	3
68	25711008 708143844 408671393 477459700 147074941 768134400 556321584	5. 4121	5
69	205688069 665150755 269371147 819652730 240798096 506397013 656113134	3. 2739	4
70	1645504557 321206042 154969182 557422131 339197748 181704488 128927464	6. 0350	5
71	13 164036458 569648337 239753460 458574571 135928605 910419536 986983958	2. 4627	2
72	105 312291668 557186697 918027683 671006651 673191935 955211105 077871200	5. 3249	5
73	842 498333348 457493583 344221469 362422637 077947080 628145739 068457854	3. 6920	4
74	6739 986666787 659948666 753771754 908253317 475413970 718042946 864225176	4. 9224	4
75	53919 893334301 279589334 030174039 266710046 004832393 388303215 767083558	2. 8243	3
76	431359 146674410 236714672 241392314 059285070 216357403 343611247 337758864	4. 0515	4
77	3450873 173395281 893717377 931138512 840789001 230202924 411285245 870361614	4. 5945	4
78	27606985 387162255 149739023 449108101 488932194 923318857 080821461 512716104	4. 1147	4
79*	220855883 097298041 197912187 592864815 166289117 983323966 394712082 006287158	1. 0756	1
80	1766847064 778384329 583297500 742918514 955193670 229162488 092678750 128920000	5. 3395	5

n	Prime Factorization
1	2×7
2	$2^3 7$
3	$2 \times 7 \times 37$
4	$2^4 7 \times 37$
5	$2 \times 7 \times 11 \times 211$
6	$2^3 7 \times 37 \times 127$
7	$2 \times 7^3 43 \times 71$

8	$2^5 3^4 5^2 7 \times 37$
9	$2 \times 7 \times 37 \times 109 \times 2377$
10	$2^3 7 \times 11^2 211 \times 751$
11	$2 \times 7 \times 67 \times 991 \times 9241$
12	$2^4 7 \times 37^2 127 \times 3529$
13	$2 \times 7 \times 53 \times 79^2 118717$
14	$2^3 7^3 29 \times 43^2 71 \times 421$
15	$2 \times 7 \times 11 \times 37 \times 211 \times 29264761$
16	$2^6 3^4 5^2 7 \times 37 \times 113 \times 74209$
17	$2 \times 7 \times 65587 \times 2452358563$
18	$2^3 7 \times 37 \times 109 \times 127 \times 163 \times 1621 \times 2377$
19	$2 \times 7 \times 262543 \times 39 \times 208594219$
20	$2^4 7 \times 11^2 37 \times 211 \times 541 \times 751 \times 26821$
21	$2 \times 7^3 37 \times 43 \times 71 \times 379 \times 631 \times 497701$
22	$2^3 7 \times 23^2 67^2 991 \times 9241 \times 60589$
23	$2 \times 7 \times 4196903 \times 1087027 \times 9242137$
24	$2^5 3^6 5^2 7 \times 37^2 127 \times 3529 \times 1885321$
25	$2 \times 7 \times 11 \times 211 \times 1051 \times 1451 \times 17851 \times 42708451$
26	$2^3 7 \times 53 \times 79^2 2003 \times 118717 \times 68616367$
27	$2 \times 7 \times 37 \times 109 \times 163 \times 2377 \times 110524 \times 002744079$
28	$2^4 7^3 29^2 37 \times 43^2 71 \times 281 \times 421 \times 673 \times 10837$
29	$2 \times 7 \times 6323 \times 31147 \times 42457 \times 1321 \times 882577593$
30	$2^3 7 \times 11^2 37 \times 127 \times 211 \times 751 \times 8384041 \times 29264761$
31	$2 \times 7 \times 26041 \times 41231 \times 606854761 \times 1085663587$
32	$2^7 3^4 5^2 7 \times 37 \times 113 \times 32993 \times 74209 \times 4265677249$
33	$2 \times 7 \times 37 \times 67 \times 991 \times 9241 \times 1994216859 \times 558011089$
34	$2^3 7 \times 137 \times 239 \times 65587 \times 2452358563 \times 17 \times 192986687$
35	$2 \times 7^3 11 \times 43 \times 71^2 211 \times 491 \times 631 \times 1471 \times 2311 \times 9661 \times 11551$
36	$2^4 7 \times 37^2 109^2 127 \times 163 \times 1621 \times 2377 \times 3529 \times 7561 \times 83701$
37	$2 \times 7 \times 1999 \times 4663 \times 260999 \times 263293 \times 289497 \times 699619339$
38	$2^3 7 \times 130873 \times 262543 \times 39 \times 208594219 \times 275 \times 295876199$
39	$2 \times 7 \times 37 \times 53 \times 79^2 118717 \times 2103193 \times 3883806 \times 996241537$
40	$2^5 3^4 5^4 7 \times 11^2 37 \times 211 \times 541 \times 751 \times 26821 \times 58321 \times 195244921$
41	$2 \times 7 \times 739 \times 2543 \times 3691 \times 43789 \times 585071 \times 1093717 \times 3907941241$
42	$2^3 7^3 29 \times 37 \times 43^2 71 \times 127^2 379 \times 421 \times 631 \times 757 \times 359731 \times 497701$
43	$2 \times 7 \times 947 \times 1033 \times 4644189029 \times 10699 \times 936892618 \times 010463603$
44	$2^4 7 \times 23^2 37 \times 67^2 991 \times 9241 \times 60589 \times 2097349 \times 475 \times 419828181$
45	$2 \times 7 \times 11 \times 37 \times 109 \times 211 \times 2377 \times 33751 \times 29264761 \times 141565428 \times 599973751$

46	$2^3 \times 277 \times 4196903 \times 1087027 \times 2095853 \times 9242137 \times 254\ 196239707$
47	$2 \times 7 \times 659 \times 1129 \times 106\ 781081677 \times 2506268\ 989499833\ 480908451$
48	$2^6 3^6 5^2 7 \times 17^2 37^2 113 \times 127 \times 3529 \times 74209 \times 459649 \times 1885321 \times 2119681$
49	$2 \times 7^5 43 \times 71 \times 197 \times 883 \times 8429 \times 2387477 \times 899676457 \times 551\ 993325787$
50	$2^3 7 \times 11^2 151^2 211 \times 751 \times 1051 \times 1451 \times 5051 \times 17851 \times 35851 \times 276901 \times 42708451$
51	$2 \times 7 \times 37 \times 65587 \times 2452358563 \times 11107189 \times 12338\ 253223844\ 486130469$
52	$2^4 7 \times 37 \times 53^2 79^2 2003 \times 118717 \times 633257 \times 68616367 \times 121689\ 210448261$
53	$2 \times 7 \times 107 \times 3488143 \times 3385111 \times 12066511 \times 3423801\ 588130603\ 700796421$
54	$2^3 7 \times 37 \times 109 \times 127 \times 163^2 1621 \times 2377 \times 108217 \times 166\ 456142911 \times 110524\ 002744079$
55	$2 \times 7 \times 11^2 67 \times 89^2 211 \times 331 \times 991 \times 4951 \times 9241 \times 12541 \times 36191 \times 36195310\ 890786301$
56	$2^5 3^4 5^2 7^3 13^2 29^2 37 \times 43^2 71 \times 281 \times 421 \times 673 \times 2017 \times 7393 \times 10837 \times 195049 \times 9716449$
57	$2 \times 7 \times 37 \times 262543 \times 39\ 208594219 \times 6466306519 \times 86808\ 348996957\ 523959031$
58	$2^3 7 \times 6323 \times 8353 \times 16067 \times 25579 \times 31147 \times 42457 \times 286927 \times 39275107 \times 1321\ 882577593$
59	$2 \times 7 \times 709 \times 11447 \times 304239\ 189494137 \times 25179\ 555920633 \times 220079736\ 302904199$
60	$2^4 7 \times 11^2 37^2 127 \times 211 \times 541 \times 751 \times 3529 \times 26821 \times 29264761 \times 8384041 \times 326696\ 137901281$
61	$2 \times 7 \times 977 \times 102481 \times 4385047 \times 2907871 \times 11\ 514943771 \times 59567\ 866021499\ 363809339$
62	$2^3 7 \times 373 \times 26041 \times 41231 \times 26016379 \times 1439393 \times 1085663587 \times 606854761 \times 177\ 253384597$
63	$2 \times 7^3 37 \times 43 \times 71 \times 109 \times 379 \times 631 \times 2377 \times 497701 \times 711397 \times 28\ 589800177 \times 16143608\ 794575781$
64	$2^8 3^4 5^2 7 \times 37 \times 113 \times 193^2 32993 \times 54721 \times 74209 \times 11127041 \times 455809 \times 3831937 \times 4265677249$
65	$2 \times 7 \times 11 \times 53 \times 79^2 211 \times 1171 \times 8971 \times 16381 \times 118717 \times 20879821 \times 29\ 167216261 \times 375528\ 668842861$
66	$2^3 7 \times 23^2 37 \times 67^2 127 \times 991 \times 9241 \times 60589 \times 621721 \times 934\ 514538409 \times 1994216859\ 558011089$
67	$2 \times 7 \times 2011 \times 70753 \times 1079503331 \times 68\ 352708293 \times 21865\ 753573072\ 478765522\ 916418513$
68	$2^4 7 \times 37 \times 137^2 239 \times 65587 \times 24\ 828813073 \times 62699333 \times 321283477 \times 2452358563 \times 17\ 192986687$
69	$2 \times 7 \times 37 \times 1087027 \times 4196903 \times 9242137 \times 221929\ 887001447 \times 42434773\ 216646354\ 389203607$
70	$2^3 7^3 11^2 29 \times 43^2 71^2 11^2 421 \times 491 \times 631 \times 751 \times 1051 \times 1471 \times 2311 \times 9661 \times 11551 \times 15541 \times 25621 \times 26481841$
71	$2 \times 7 \times 2006603 \times 5230003 \times 588353\ 361747061 \times 152285799\ 003441624\ 536374327\ 236750553$
72	$2^5 3^8 5^2 7 \times 37^2 109^2 127 \times 163 \times 1621 \times 2377 \times 3529 \times 7561 \times 83701 \times 1885321 \times 1373096449 \times 382\ 131765289$
73	$2 \times 7 \times 877 \times 4608199 \times 361789 \times 32640637 \times 5384682420\ 498870703 \times 234172\ 621452672\ 435228733$
74	$2^3 7 \times 149 \times 1999 \times 4663 \times 25309 \times 123433 \times 260999 \times 263293 \times 230603167 \times 6046\ 606703971 \times 289497\ 699619339$
75	$2 \times 7 \times 11 \times 37 \times 211 \times 1051 \times 1451 \times 2251 \times 17851 \times 29264761 \times 42708451 \times 585567\ 748406484\ 532790010\ 161442451$
76	$2^4 7 \times 37 \times 2129 \times 130873 \times 262543 \times 64555541 \times 275\ 295876199 \times 39\ 208594219 \times 2042\ 107495980\ 164268181$
77	$2 \times 7^3 43 \times 67 \times 71 \times 463^2 991 \times 7393 \times 9241 \times 18120719 \times 127994483 \times 2910\ 767361349 \times 250988480\ 870757169$
78	$2^3 7 \times 37 \times 53 \times 79^2 127 \times 2003 \times 118717 \times 2103193 \times 68616367 \times 3883806\ 996241537 \times 2379\ 781648506\ 254133961$
79*	$2 \times 7 \times 317 \times 49764732559102758269020321674823076873882180708274891030804885535441$
80	$2^6 3^4 5^4 7 \times 11^2 37 \times 113 \times 211 \times 401 \times 541 \times 751 \times 26821 \times 58321 \times 74209 \times 12132401 \times 2045761 \times 195244921 \times 7963\ 214925121$

Field Size: 32

$C1 = 1$.

$A2 = 0$

$A6 = Q^2 + Q, Q^3 + Q, Q^3 + Q^2 + Q, Q^4 + Q^2 + Q$

n	N_n	X	Tier
1	32	1.0	1
2	1088	1. 4142	1
3	32864	2. 3513	1
4	1046656	5. 4527	3
5	33549472	1. 6154	1
6	1073798336	8. 6701	5
7	34 359953632	1. 9978	1
8	1099 510034688	7. 4998	4
9	35184 363607328	7. 8840	4
10	1125899 949339968	7. 1899	4
11	36028797 332869472	1.0	1
12	1152921503 560837504	10. 74	5
13	36 893488136 328117664	1. 4754	1
14	1180 591620739 792620992	5. 6814	3
15	37778 931863334 454565344	4. 0007	3
16	1208925 819614290 265399808	4. 7568	3
17	38685626 227655721 309906464	1. 6065	1
18	1237940039 285378707 716236864	13. 651	5
19	39 614081257 132564422 571205216	7. 4232	4
20	1267 650600228 229847272 354830976	10. 137	5
21	40564 819207303 328633644 578836128	12. 014	5
22	1298074 214633706 880653553 306549952	5. 6569	3
23	41538374 868278621 392620897 417554656	1.0	1
24	1329227995 784915874 115514251 888300800	12. 858	5
25	42 535295865 117307922 473471463 497578272	3. 8701	2
26	1361 129467683 753853804 275445130 144798528	6. 8712	4
27	43556 142965880 123323597 074109564 553360224	5. 1534	3
28	1393796 574908163 946347842 651905922 513931136	8. 4531	5
29	44601490 397061246 283064172 825696579 818364832	2. 5907	2
30	1427247692 705959881 058219177 414202195 755315136	11. 315	5
31	45 671926166 590716193 865316669 375756005 815532512	5. 4771	3

32	1461 501637330 902918203 687135708 404305397 577991168	12. 338	5
33	46768 052394588 893382517 911649209 436742201 322326048	9. 5615	5
34	1496577 676626844 588240573 192008014 311097153 750616128	7. 1700	4
35	47890485 652059026 823698344 617680474 323432309 004420192	4. 9782	3
36	1532495540 865888858 358347029 623733199 987062511 168306304	19. 047	5
37	49 039857307 708443467 467104870 667851897 436880532 902129824	3. 6915	2
38	1569 275433846 670190958 947355724 624993523 439741291 524956352	15. 412	5
39	50216 813883093 446110686 315385524 585061624 303119950 932905184	11. 475	5
40	1606938 044258990 275541962 092343499 187791077 225181414 969603328	18. 011	5
41	51422017 416287688 817342786 954923915 746529595 326392355 846281504	6. 3966	4
42	1645504557 321206042 154969182 557282446 719950989 754166940 167584064	17. 985	5
43*	52 656145834 278593348 959013841 834933302 278551639 584167180 242064736	1.0	1
44	1684 996666696 914987166 688442938 728812109 561646376 236605163 855015296	10. 957	5
45	53919 893334301 279589334 030174039 272293710 936838990 688217603 329442208	5. 6931	3
46	1725436 586697640 946858688 965569256 313418982 207197547 755642991 024902592	5. 6569	3
47*	55213970 774324510 299478046 898216203 219629104 005712938 173979878 273146336	1. 7192	1
48	1766847064 778384329 583297500 742918517 017705570 251010368 115010366 768883200	16. 951	5
49	56 539106072 908298546 665520023 773392520 469058942 088003006 439052703 392033312	2. 6333	2
50	1809 251394333 065553493 296640760 748560183 245991094 689484343 283471090 430421568	11. 129	5

n	Prime Factorization
1	2^5
2	2^{617}
3	$2^5 13 \times 79$
4	$2^7 13 \times 17 \times 37$
5	$2^5 11 \times 95311$
6	$2^6 13 \times 17 \times 31^2 79$
7	$2^5 127 \times 8454713$
8	$2^8 3^2 13 \times 17^2 37 \times 3433$
9	$2^5 13 \times 19 \times 37 \times 79 \times 163 \times 9343$
10	$2^6 11^2 17 \times 61 \times 1471 \times 95311$
11	$2^5 1125899 916652171$
12	$2^7 13^2 17 \times 31^2 37 \times 73 \times 79 \times 15289$
13	$2^5 157 \times 7343449 071721361$
14	$2^6 17 \times 127 \times 8454713 \times 1010574209$
15	$2^5 11 \times 13 \times 79 \times 95311 \times 1096 461890401$
16	$2^9 3^2 13 \times 17^2 37 \times 3433 \times 549 756610433$

17	$2^5 3^{16} 382 \cdot 208605632 \cdot 071226979$
18	$2^6 13 \times 17 \times 19^2 31^2 37 \times 79 \times 163 \times 397 \times 9343 \times 142759$
19	$2^5 190942363 \times 182110099 \times 35 \cdot 601089299$
20	$2^7 11^2 13 \times 17 \times 37 \times 61 \times 1471 \times 3881 \times 95311 \times 301565081$
21	$2^5 13 \times 79 \times 127 \times 147673 \times 289717 \times 8454713 \times 26868997$
22	$2^6 17 \times 30427 \times 34 \cdot 826650387 \times 1125899 \cdot 916652171$
23	$2^5 1298074 \cdot 214633706 \cdot 918519403 \cdot 044298583$
24	$2^8 3^4 5^2 7^2 13^2 17^2 31^2 37 \times 73 \times 79 \times 3433 \times 15289 \times 99546481$
25	$2^5 11 \times 95311 \times 470528651 \times 2694 \cdot 496942404 \cdot 690816751$
26	$2^6 17 \times 157 \times 2939 \times 3703753 \times 99684859 \times 7343449 \cdot 071721361$
27	$2^5 13 \times 19 \times 37 \times 79 \times 163 \times 9343 \times 15322771 \times 80 \cdot 790892045 \cdot 691005873$
28	$2^7 13 \times 17 \times 37 \times 127 \times 2549 \times 1010574209 \times 8454713 \times 481453 \cdot 988598941$
29	$2^5 3191 \times 4583 \times 66701 \times 1428 \cdot 862328970 \cdot 896274902 \cdot 096254417$
30	$2^6 11^2 13 \times 17 \times 31^2 61 \times 79 \times 1471 \times 95311 \times 347161 \times 3374281 \times 1096 \cdot 461890401$
31	$2^5 7069 \times 170 \cdot 615556593 \times 65131249 \times 18169 \cdot 096606236 \cdot 459170827$
32	$2^{10} 3^2 13 \times 17^2 37 \times 577 \times 3433 \times 3067 \cdot 036214689 \times 341566241 \times 549 \cdot 756610433$
33	$2^5 13 \times 79 \times 199 \times 989 \cdot 455796341 \times 1125899 \cdot 916652171 \times 6419180 \cdot 714849563$
34	$2^6 17^2 3163 \times 6121 \times 10 \cdot 934512201 \cdot 084514729 \times 382 \cdot 208605632 \cdot 071226979$
35	$2^5 11 \times 127 \times 211 \times 95311 \times 10518481 \times 8454713 \times 598998146 \cdot 690598028 \cdot 009036171$
36	$2^7 13^2 17 \times 19^2 31^2 37^2 73^2 79 \times 163 \times 397 \times 9343 \times 15289 \times 57853 \times 67537 \times 142759 \times 4042333$
37	$2^5 149 \times 6509053650 \cdot 741201431 \times 1580138 \cdot 300301624 \cdot 779299128 \cdot 100570103$
38	$2^6 17 \times 75659 \times 1926031 \times 182110099 \times 190942363 \times 126224981 \times 63343417 \times 35 \cdot 601089299$
39	$2^5 13^2 79^2 157 \times 53353 \times 1000273 \times 4149679 \times 5827290 \cdot 320400589 \times 7343449 \cdot 071721361$
40	$2^8 3^2 11^2 13 \times 17^2 37 \times 41^2 61 \times 521 \times 1471 \times 3433 \times 3881 \times 11321 \times 12721 \times 86441 \times 95311 \times 110681 \times 301565081$
41	$2^5 31489 \times 2657477813 \times 13 \cdot 225329425 \cdot 789222017 \times 1451991647 \cdot 101606197 \cdot 149807813$
42	$2^6 13 \times 17 \times 31^2 79 \times 127 \times 1009 \times 147673 \times 289717 \times 1508263 \times 8454713 \times 26868997 \times 807255079 \times 1010574209$
43*	$2^5 1645504557 \cdot 321206042 \cdot 154969182 \cdot 557341665 \cdot 696204738 \cdot 737005224 \cdot 382564523$
44	$2^7 13 \times 17 \times 37 \times 30427 \times 142 \cdot 985805161 \times 34 \cdot 826650387 \times 1125899 \cdot 916652171 \times 9436947212 \cdot 640340889$
45	$2^5 11 \times 13 \times 19 \times 37 \times 79 \times 163 \times 7741 \times 9343 \times 95311 \times 1096 \cdot 461890401 \times 172215 \cdot 804130794 \cdot 376350951 \cdot 998366101$
46	$2^6 \times 17 \times 47^3 11767305008433080016800947951 \times 1298074214633706918519403044298583$
47*	$2^5 115044837689 \times 14997948811592946284683327209394402491444845834959377948007$
48	$2^9 3^4 5^2 7^2 13^2 17^2 31^2 37 \times 73 \times 79 \times 433 \times 3121 \times 3169 \times 3433 \times 4273 \times 15289 \times 99546481 \times 66 \cdot 063598609 \times 549 \cdot 756610433$
49	$2^5 127 \times 197 \times 883 \times 2154629 \times 8454713 \times 4390327 \cdot 701801891 \cdot 882917598 \cdot 875733124 \cdot 442644924 \cdot 010524229$
50	$2^6 11^2 17 \times 61 \times 1471 \times 95311 \times 470528651 \times 64213 \cdot 261085201 \times 19738339 \cdot 829895601 \times 2694 \cdot 496942404 \cdot 690816751$

Field Size: 32

 $C1 = -1$ $A2 = 1$ $A6 = Q^2 + Q, Q^3 + Q, Q^3 + Q^2 + Q, Q^4 + Q^2 + Q$

n	N_n	X	Tier
1	34	1.0	1
2	1088	4.0	3
3	32674	3. 1414	2
4	1046656	5. 3707	3
5	33559394	3. 6757	2
6	1073798336	8. 5829	5
7	34 359523106	1.0	1
8	1099 510034688	7. 4431	4
9	35184 380570338	5. 7843	3
10	1125899 949339968	7. 1464	4
11	36028796 705058466	2. 556	2
12	1152921503 560837504	10. 686	5
13	36 893488158 510088802	5. 9165	3
14	1180 591620739 792620992	5. 6569	3
15	37778 931862579 868853794	9. 2862	5
16	1208925 819614290 265399808	4. 7388	3
17	38685626 227680545 871288802	1. 973	1
18	1237940039 285378707 716236864	13. 605	5
19	39 614081257 131773170 972745122	9. 9579	5
20	1267 650600228 229847272 354830976	10. 107	5
21	40564 819207303 353062144 426307938	10. 079	5
22	1298074 214633706 880653553 306549952	5. 6413	3
23	41538374 868278620 663867043 849966882	1. 6523	1
24	1329227995 784915874 115514251 888300800	12. 826	5
25	42 535295865 117307943 370180394 444474594	6. 1955	4
26	1361 129467683 753853804 275445130 144798528	6. 8552	4
27	43556 142965880 123323026 825392968 108772514	2. 7861	2
28	1393796 574908163 946347842 651905922 513931136	8. 4348	5
29	44601490 397061246 283078700 264896866 205556834	1. 3331	1
30	1427247692 705959881 058219177 414202195 755315136	11. 292	5
31	45 671926166 590716193 864985375 391932722 680251426	2. 8860	2

32	1461 501637330 902918203 687135708 404305397 577991168	12. 314	5
33	46768 052394588 893382517 917644632 676515778 360424418	8. 2223	5
34	1496577 676626844 588240573 192008014 311097153 750616128	7. 1572	4
35	47890485 652059026 823698344 579213849 652738886 132054946	5. 2528	3
36	1532495540 865888858 358347029 623733199 987062511 168306304	19. 015	5
37	49 039857307 708443467 467104866 951935854 162423286 848409442	6. 1994	4
38	1569 275433846 670190958 947355724 624993523 439741291 524956352	15. 388	5
39	50216 813883093 446110686 315385798 077596013 383991473 619301154	14. 593	5
40	1606938 044258990 275541962 092343499 187791077 225181414 969603328	17. 984	5
41	51422017 416287688 817342786 954910490 814891396 275706385 613006562	2. 1668	1
42	1645504557 321206042 154969182 557282446 719950989 754166940 167584064	17. 959	5
43*	52 656145834 278593348 959013841 835499016 616543760 964944074 068912802	1.0	1
44	1684 996666696 914987166 688442938 728812109 561646376 236605163 855015296	10. 942	5
45	53919 893334301 279589334 030174039 250400837 640851171 601706811 111554658	8. 1697	5
46	1725436 586697640 946858688 965569256 313418982 207197547 755642991 024902592	5. 6494	3
47	55213970 774324510 299478046 898216204 019588639 549013246 708620509 307642402	1. 1714	1
48	1766847064 778384329 583297500 742918517 017705570 251010368 115010366 768883200	16. 93	5
49*	56 539106072 908298546 665520023 773392492 489910457 951610313 343744179 335632354	1. 5267	1
50	1809 251394333 065553493 296640760 748560183 245991094 689484343 283471090 430421568	11. 115	5

n	Prime Factorization
1	2×17
2	$2^6 17$
3	$2 \times 17 \times 31^2$
4	$2^7 13 \times 17 \times 37$
5	$2 \times 11 \times 17 \times 61 \times 1471$
6	$2^6 13 \times 17 \times 31^2 79$
7	$2 \times 17 \times 1010574209$
8	$2^8 3^2 13 \times 17^2 37 \times 3433$
9	$2 \times 17 \times 19 \times 31^2 397 \times 142759$
10	$2^6 11^2 17 \times 61 \times 1471 \times 95311$
11	$2 \times 17 \times 30427 \times 34 826650387$
12	$2^7 13^2 17 \times 31^2 37 \times 73 \times 79 \times 15289$
13	$2 \times 17 \times 2939 \times 3703753 \times 99684859$
14	$2^6 17 \times 127 \times 8454713 \times 1010574209$
15	$2 \times 11 \times 17 \times 31^2 61 \times 1471 \times 347161 \times 3374281$
16	$2^9 3^2 13 \times 17^2 37 \times 3433 \times 549 756610433$
17	$2 \times 17^2 6121 \times 10 934512201 084514729$

18	$2^6 13 \times 17 \times 19^3 31^2 37 \times 79 \times 163 \times 397 \times 9343 \times 142759$
19	$2 \times 17 \times 75659 \times 1926031 \times 63343417 \times 126224981$
20	$2^7 11^2 13 \times 17 \times 37 \times 61 \times 1471 \times 3881 \times 95311 \times 301565081$
21	$2 \times 17 \times 31^2 1009 \times 1508263 \times 807255079 \times 1010574209$
22	$2^6 17 \times 30427 \times 34 \times 826650387 \times 1125899 \times 916652171$
23	$2 \times 17 \times 47^3 11 \times 767305008 \times 433080016 \times 800947951$
24	$2^8 3^4 5^2 7^2 13^2 17^2 31^2 37 \times 73 \times 79 \times 3433 \times 15289 \times 99546481$
25	$2 \times 11 \times 17 \times 61 \times 1471 \times 64213 \times 261085201 \times 19738339 \times 829895601$
26	$2^6 17 \times 157 \times 2939 \times 3703753 \times 99684859 \times 7343449 \times 071721361$
27	$2 \times 17 \times 19 \times 31^2 397 \times 142759 \times 1237939740 \times 868989233 \times 156566753$
28	$2^7 13 \times 17 \times 37 \times 127 \times 2549 \times 1010574209 \times 8454713 \times 481453 \times 988598941$
29	$2 \times 17 \times 4177 \times 314 \times 055192983 \times 010930185 \times 460295630 \times 813461713$
30	$2^6 11^2 13 \times 17 \times 31^2 61 \times 79 \times 1471 \times 95311 \times 347161 \times 3374281 \times 1096 \times 461890401$
31	$2 \times 17 \times 185851 \times 267511243 \times 7227 \times 779310113 \times 855491085 \times 450698723$
32	$2^{10} 3^2 13 \times 17^2 37 \times 577 \times 3433 \times 3067 \times 036214689 \times 341566241 \times 549 \times 756610433$
33	$2 \times 17 \times 31^2 1123 \times 6073 \times 30427 \times 225457 \times 34 \times 826650387 \times 878474941 \times 832010931$
34	$2^6 17^2 3163 \times 6121 \times 10 \times 934512201 \times 084514729 \times 382 \times 208605632 \times 071226979$
35	$2 \times 11 \times 17 \times 61 \times 71^2 911 \times 1471 \times 3571 \times 1010574209 \times 86107701 \times 434913931 \times 349184581$
36	$2^7 13^2 17 \times 19^2 31^2 37^2 73^2 79 \times 163 \times 397 \times 9343 \times 15289 \times 57853 \times 67537 \times 142759 \times 4042333$
37	$2 \times 17 \times 17150537 \times 140 \times 253056921 \times 86 \times 230605301 \times 6953745 \times 430231300 \times 322245469$
38	$2^6 17 \times 75659 \times 1926031 \times 182110099 \times 190942363 \times 126224981 \times 63343417 \times 35 \times 601089299$
39	$2 \times 17 \times 31^2 2939 \times 28888549 \times 3703753 \times 4296319 \times 99684859 \times 19 \times 475553241 \times 585 \times 954637867$
40	$2^8 3^2 11^2 13 \times 17^2 37 \times 41^2 61 \times 521 \times 1471 \times 3433 \times 3881 \times 11321 \times 12721 \times 86441 \times 95311 \times 110681 \times 301565081$
41	$2 \times 17 \times 58646 \times 585978707 \times 25 \times 788581751 \times 352997387 \times 162387999 \times 932213874 \times 808712699$
42	$2^6 13 \times 17 \times 31^2 79 \times 127 \times 1009 \times 147673 \times 289717 \times 1508263 \times 8454713 \times 26868997 \times 807255079 \times 1010574209$
43*	$2 \times 17 \times 1548710171 \times 596429216 \times 145853348 \times 289279382 \times 841663051 \times 793086590 \times 413791553$
44	$2^7 13 \times 17 \times 37 \times 30427 \times 142 \times 985805161 \times 34 \times 826650387 \times 1125899 \times 916652171 \times 9436947212 \times 640340889$
45	$2 \times 11 \times 17 \times 19 \times 31^2 61 \times 271 \times 397 \times 1471 \times 3691 \times 93601 \times 142759 \times 347161 \times 3374281 \times 14156566 \times 066051162 \times 830053101$
46	$2^6 \times 17 \times 47^3 11 \times 767305008 \times 433080016 \times 800947951 \times 1298074 \times 214633706 \times 918519403 \times 044298583$
47	$2 \times 17 \times 1693 \times 959 \times 208692789 \times 071093768 \times 076976099 \times 096696077 \times 075840815 \times 351216229 \times 813232821$
48	$2^9 3^4 5^2 7^2 13^2 17^2 31^2 37 \times 73 \times 79 \times 433 \times 3121 \times 3169 \times 3433 \times 4273 \times 15289 \times 99546481 \times 66 \times 063598609 \times 549 \times 756610433$
49*	$2 \times 17 \times 1010574209 \times 1645514866387514247784784723541890025570191057294694057309997409$
50	$2^6 11^2 17 \times 61 \times 1471 \times 95311 \times 470528651 \times 64213 \times 261085201 \times 19738339 \times 829895601 \times 2694 \times 496942404 \times 690816751$

Field Size: 32

C1= 3

A2=1

A6= Q+1, Q^2+1, Q^3+1, Q^3+Q^2+1, Q^4+1, Q^4+Q+1, Q^4+Q^3+1, Q^4+Q^3+Q+1, Q^4+Q^3+Q^2+1, Q^4+Q^3+Q^2+Q+1

n	N _n	X	Tier
1	30	1.0	1
2	1080	3. 4641	2
3	33030	1. 4422	1
4	1047600	4. 3559	3
5	33543150	1. 3797	1
6	1073739240	6. 7845	4
7	34 360091670	3. 4995	2
8	1099 512770400	7. 3428	4
9	35184 364211070	2. 4603	1
10	1125899 846645400	6. 6449	4
11	36028797 090460710	5. 1076	3
12	1152921506 747648400	7. 5575	4
13	36 893488151 553611790	5. 5787	3
14	1180 591620661 309183560	10. 571	5
15	37778 931862656 551076150	11. 221	5
16	1208925 819615522 610641600	5. 7013	3
17	38685626 227680433 438673310	1.0	1
18	1237940039 285388584 493417720	8. 8651	5
19	39 614081257 131800130 416433990	4. 9146	3
20	1267 650600228 228029590 619190000	13. 989	5
21	40564 819207303 348529499 627843630	7. 6171	4
22	1298074 214633706 974078434 146611880	5. 7039	3
23	41538374 868278620 983270036 817990230	4. 2631	3
24	1329227995 784915870 626619336 775213600	15. 551	5
25	42 535295865 117307927 529428640 560290750	6. 8060	4
26	1361 129467683 753853910 191245014 004830040	10. 207	5
27	43556 142965880 123323654 584910356 270560870	8. 0229	5
28	1393796 574908163 946345196 127428610 589112400	6. 4046	4
29	44601490 397061246 283058113 426370108 933102670	1. 5024	1

30	1427247692 705959881 058271160 560296478 306536200	16. 388	5
31	45 671926166 590716193 865532935 521900040 542721910	6. 5367	4
32	1461 501637330 902918203 686452340 151543743 255766400	7. 1871	4
33	46768 052394588 893382517 907284572 244419610 376487390	9. 8458	5
34	1496577 676626844 588240573 194786463 582728742 186194360	5. 6569	3
35	47890485 652059026 823698344 612297293 290588942 231209350	4. 2612	3
36	1532495540 865888858 358347029 557139904 867015003 782535600	15. 363	5
37	49 039857307 708443467 467104875 587181837 864372525 456972910	2. 6680	2
38	1569 275433846 670190958 947355745 229884831 838194751 587868520	12. 091	5
39	50216 813883093 446110686 315385274 397956451 520496920 399319190	7. 0191	4
40	1606938 044258990 275541962 092341815 777419301 045930078 669260000	8. 9610	5
41	51422017 416287688 817342786 954931544 673317544 295372568 288607230	1. 3575	1
42	1645504557 321206042 154969182 557372627 563849873 447836309 338822680	15. 612	5
43	52 656145834 278593348 959013841 834823602 627464171 898982643 239307430	2. 3870	1
44	1684 996666696 914987166 688442938 725031509 265627573 602854845 540259600	7. 1646	4
45	53919 893334301 279589334 030174039 268252313 363821483 614522022 232158350	13. 61	5
46	1725436 586697640 946858688 965569256 444166872 256734529 901077226 023120840	11. 531	5
47	55213970 774324510 299478046 898216203 641809906 419194013 202245898 318790070	2. 5659	2
48	1766847064 778384329 583297500 742918513 300355960 362969856 011272275 928334400	18. 006	5
49	56 539106072 908298546 665520023 773392498 187667781 943269889 210134120 362314270	2. 0614	1
50	1809 251394333 065553493 296640760 748560263 336153614 808974072 011642772 295227000	11. 930	5

n	Prime Factorization
1	$2 \times 3 \times 5$
2	$2^3 3^5$
3	$2 \times 3^2 5 \times 367$
4	$2^4 3^3 5^2 97$
5	$2 \times 3 \times 5^2 223 621$
6	$2^3 3^5 5 \times 7 \times 43 \times 367$
7	$2 \times 3 \times 5 \times 6427 \times 178207$
8	$2^5 3^3 5^2 11^2 97 \times 4337$
9	$2 \times 3^3 5 \times 367 \times 35507 4823$
10	$2^3 3^3 5^2 41 \times 22741 \times 223621$
11	$2 \times 3 \times 5 \times 67 \times 921031 \times 19461641$
12	$2^4 3^5 5^2 7 \times 43 \times 97 \times 367 \times 1106953$
13	$2 \times 3 \times 5 \times 53 \times 5981 \times 15991 \times 242606911$
14	$2^3 3^3 5 \times 5279 \times 6427 \times 178207 \times 180797$
15	$2 \times 3^2 5^2 31^2 367 \times 22921 \times 46441 \times 223621$

16	$2^6 3^3 5^2 11^2 17 \times 97 \times 4337 \times 32$ 338543681
17	$2 \times 3 \times 5 \times 1289520$ 874256014 447955777
18	$2^3 3^7 5 \times 7 \times 43 \times 367 \times 355074823 \times 360776629$
19	$2 \times 3 \times 5 \times 1217 \times 11$ 296429861 $\times 96049$ 817712809
20	$2^4 3^3 5^4 41^2 61 \times 97 \times 181 \times 22741 \times 223621 \times 512821$
21	$2 \times 3^2 5 \times 43 \times 367 \times 6427 \times 60733 \times 178207 \times 410$ 596007431
22	$2^3 3^3 5 \times 67 \times 921031 \times 19461641 \times 1000799$ 915207423
23	$2 \times 3 \times 5 \times 1151 \times 193799 \times 1365373 \times 4546216153$ 227892433
24	$2^5 3^5 5^2 7 \times 11^2 43 \times 73 \times 97 \times 367 \times 4337 \times 48649 \times 309313 \times 1106953$
25	$2 \times 3 \times 5^3 223621 \times 118791$ 119997301 $\times 2134969$ 289830801
26	$2^3 3^3 5 \times 53 \times 5981 \times 15991 \times 3845557 \times 242606911 \times 266$ 494324513
27	$2 \times 3^4 5 \times 367 \times 355074823 \times 742$ 322490823 $\times 555886$ 123961689
28	$2^4 3^3 5^2 97 \times 5279 \times 6427 \times 178207 \times 180797 \times 1217104763$ 684034457
29	$2 \times 3 \times 5 \times 133981 \times 11$ 096471489 007457844 285909550 948793469
30	$2^3 3^5 5^2 7 \times 31^2 41 \times 43 \times 61 \times 367 \times 1171 \times 22741 \times 22921 \times 46441 \times 223621 \times 17449351$
31	$2 \times 3 \times 5 \times 7193 \times 31063 \times 118210627 \times 715105583 \times 80$ 602391312 348675863
32	$2^7 3^3 5^2 11^2 17 \times 97 \times 4337 \times 31873 \times 32$ 338543681 $\times 18$ 964732212 432713249
33	$2 \times 3^2 5 \times 67 \times 367 \times 921031 \times 19461641 \times 452857$ 479987331 $\times 2603458$ 490542339
34	$2^3 3^3 5 \times 8829767 \times 121702048$ 145324263 $\times 1289520$ 874256014 447955777
35	$2 \times 3 \times 5^2 2801 \times 3011 \times 6427 \times 178207 \times 223621 \times 147$ 804777994 694350958 340211531
36	$2^4 3^7 5^2 7 \times 43 \times 97 \times 367 \times 355074823 \times 1106953 \times 116695153 \times 360776629 \times 9879748201$
37	$2 \times 3 \times 5 \times 13522909 \times 434241473 \times 278$ 372620925 367593481 611591877 671735021
38	$2^3 3^3 5 \times 1217 \times 461207 \times 6199321 \times 11$ 296429861 $\times 96049$ 817712809 $\times 384863$ 807850569
39	$2 \times 3^2 5 \times 53 \times 313 \times 367 \times 5981 \times 15991 \times 242606911 \times 2386900699 \times 1654753$ 956280836 067211803
40	$2^5 3^3 5^4 11^2 41^2 61 \times 97 \times 181 \times 2801 \times 4337 \times 22741 \times 223621 \times 512821 \times 431$ 202896489 981230001
41	$2 \times 3 \times 5 \times 276587 \times 6197208282$ 419598995 053128184 493070254 364515118 856221043
42	$2^3 3^3 5 \times 7^3 43^2 367 \times 5279 \times 6427 \times 60733 \times 178207 \times 180797 \times 392113 \times 68$ 047016857 $\times 410$ 596007431
43	$2 \times 3 \times 5 \times 17673407$ 079759451 $\times 99$ 313327261 769240017 874647611 233950145 007930631
44	$2^4 3^3 5^2 67 \times 97 \times 1013 \times 921031 \times 19461641 \times 1000799$ 915207423 $\times 1321047225$ 891968166 604058597
45	$2 \times 3^3 5^2 31^2 181 \times 367 \times 22921 \times 46441 \times 223621 \times 355074823 \times 520096231 \times 8371705051 \times 1700129$ 547172081
46	$2^3 3^3 5 \times 139 \times 1151 \times 193799 \times 1365373 \times 1012$ 041841693 $\times 4546216153$ 227892433 $\times 8202263784$ 323601389
47	$2 \times 3 \times 5 \times 283 \times 70877 \times 8549$ 843271967 $\times 10731$ 929477386 460404528 124354777 672976188 389127077
48	$2^6 3^5 5^2 7 \times 11^2 17 \times 43 \times 73 \times 97^2 367 \times 4337 \times 48649 \times 309313 \times 368593 \times 1106953 \times 94437841 \times 358043041 \times 32$ 338543681
49	$2 \times 3 \times 5 \times 1471^2 6427 \times 178207 \times 760$ 447573408 036592423 226843983 244040577 043422663 224067341
50	$2^3 3^3 5^3 41 \times 601^2 22741 \times 39451 \times 223621 \times 118791$ 119997301 $\times 2134969$ 289830801 $\times 88$ 929649816 699369751

Field Size: 32

$C1 = -3$

$A2 = 0$

$A6 = Q+1, Q^2+1, Q^3+1, Q^3+Q^2+1, Q^4+1, Q^4+Q+1, Q^4+Q^3+1, Q^4+Q^3+Q+1, Q^4+Q^3+Q^2+1, Q^4+Q^3+Q^2+Q+1$

n	N_n	X	Tier
1	36	1.0	1
2	1080	2. 4495	1
3	32508	2. 7589	2
4	1047600	4. 1618	3
5	33565716	2. 1016	1
6	1073739240	6. 5815	4
7	34 359385068	3. 4025	2
8	1099 512770400	7. 1773	4
9	35184 379966596	2. 4067	1
10	1125899 846645400	6. 5248	4
11	36028796 947467228	1.0	1
12	1152921506 747648400	7. 4436	4
13	36 893488143 284594676	3. 2102	2
14	1180 591620661 309183560	10. 435	5
15	37778 931863257 772342988	8. 2911	5
16	1208925 819615522 610641600	5. 6367	3
17	38685626 227655833 742521956	2. 562	2
18	1237940039 285388584 493417720	8. 7758	5
19	39 614081257 132537463 127516348	4. 5247	3
20	1267 650600228 228029590 619190000	13. 862	5
21	40564 819207303 333166289 377300436	8. 2261	5
22	1298074 214633706 974078434 146611880	5. 6569	3
23	41538374 868278621 073217904 449531308	4. 1223	3
24	1329227995 784915870 626619336 775213600	15. 434	5
25	42 535295865 117307938 314223217 381762116	4. 4151	3
26	1361 129467683 753853910 191245014 004830040	10. 135	5
27	43556 142965880 123322969 314592176 391571868	2. 8957	2
28	1393796 574908163 946345196 127428610 589112400	6. 363	4
29	44601490 397061246 283084759 664223337 090818996	3. 6345	2

30	1427247692 705959881 058271160 560296478 306536200	16. 288	5
31	45 671926166 590716193 864769109 245788687 953062028	1.0	1
32	1461 501637330 902918203 686452340 151543743 255766400	7. 1463	4
33	46768 052394588 893382517 922009269 868838369 306263076	7. 9388	4
34	1496577 676626844 588240573 194786463 582728742 186194360	5. 6266	3
35	47890485 652059026 823698344 584597030 685582252 905265788	4. 8118	3
36	1532495540 865888858 358347029 557139904 867015003 782535600	15. 286	5
37	49 039857307 708443467 467104862 032605913 734931294 293566356	11. 203	5
38	1569 275433846 670190958 947355745 229884831 838194751 587868520	12. 033	5
39	50216 813883093 446110686 315386048 264701186 166614504 152887148	3. 4482	2
40	1606938 044258990 275541962 092341815 777419301 045930078 669260000	8. 9202	5
41	51422017 416287688 817342786 954902861 888103447 306726173 170680836	2. 5507	2
42	1645504557 321206042 154969182 557372627 563849873 447836309 338822680	15. 545	5
43	52 656145834 278593348 959013841 835608716 267631228 650128611 071670108	5. 5629	3
44	1684 996666696 914987166 688442938 725031509 265627573 602854845 540259600	7. 135	4
45	53919 893334301 279589334 030174039 254442235 213868678 675402392 208838516	7. 3403	4
46	1725436 586697640 946858688 965569256 444166872 256734529 901077226 023120840	11. 485	5
47*	55213970 774324510 299478046 898216203 597407837 135532171 680354489 261998668	2. 3602	1
48	1766847064 778384329 583297500 742918513 300355960 362969856 011272275 928334400	17. 938	5
49	56 539106072 908298546 665520023 773392514 771301618 096343430 572662762 365351396	3. 6391	2
50	1809 251394333 065553493 296640760 748560263 336153614 808974072 011642772 295227000	11. 886	5

n	Prime Factorization
1	$2^3 2^2$
2	$2^3 3^5$
3	$2^3 3^7 \times 43$
4	$2^4 3^5 2^9 7$
5	$2^3 2^4 1 \times 22741$
6	$2^3 3^5 5 \times 7 \times 43 \times 367$
7	$2^3 2^5 279 \times 180797$
8	$2^5 3^5 2^1 11^2 97 \times 4337$
9	$2^3 3^4 7 \times 43 \times 360776629$
10	$2^3 3^5 2^4 1 \times 22741 \times 223621$
11	$2^3 2^1 000799 915207423$
12	$2^4 3^5 5^2 7 \times 43 \times 97 \times 367 \times 1106953$
13	$2^3 2^3 3845557 \times 266 494324513$
14	$2^3 3^5 \times 5279 \times 6427 \times 178207 \times 180797$
15	$2^3 3^7 \times 41 \times 43 \times 61 \times 1171 \times 22741 \times 17449351$

16	$2^6 3^5 5^2 11^2 17 \times 97 \times 4337 \times 32$ 338543681
17	$2^3 3^8 8829767 \times 121702048$ 145324263
18	$2^3 3^7 5 \times 7 \times 43 \times 367 \times 355074823 \times 360776629$
19	$2^3 2^4 61207 \times 6199321 \times 384863$ 807850569
20	$2^4 3^5 5^4 11^2 61 \times 97 \times 181 \times 22741 \times 223621 \times 512821$
21	$2^3 3^7 3^4 3 \times 5279 \times 180797 \times 392113 \times 68$ 047016857
22	$2^3 3^5 \times 67 \times 921031 \times 19461641 \times 1000799$ 915207423
23	$2^3 2^1 139 \times 1012$ 041841693 $\times 8202263784$ 323601389
24	$2^5 3^5 5^2 7 \times 11^2 43 \times 73 \times 97 \times 367 \times 4337 \times 48649 \times 309313 \times 1106953$
25	$2^3 2^4 1 \times 601^2 22741 \times 39451 \times 88$ 929649816 699369751
26	$2^3 3^5 \times 53 \times 5981 \times 15991 \times 3845557 \times 242606911 \times 266$ 494324513
27	$2^3 3^5 7 \times 43 \times 360776629 \times 412646587$ 370420843 345199661
28	$2^4 3^5 2^9 7 \times 5279 \times 6427 \times 178207 \times 180797 \times 1217104763$ 684034457
29	$2^3 2^1 18729187 \times 955997587 \times 69194431$ 985345333 761512269
30	$2^3 3^5 5^2 7 \times 31^2 41 \times 43 \times 61 \times 367 \times 1171 \times 22741 \times 22921 \times 46441 \times 223621 \times 17449351$
31	$2^3 2^1 1268664615$ 738631005 385132475 256827463 554251723
32	$2^7 3^5 5^2 11^2 17 \times 97 \times 4337 \times 31873 \times 32$ 338543681 $\times 18$ 964732212 432713249
33	$2^3 3^7 \times 23^2 43 \times 67 \times 15358201 \times 1000799$ 915207423 $\times 2640833081$ 598314923
34	$2^3 3^5 \times 8829767 \times 121702048$ 145324263 $\times 1289520$ 874256014 447955777
35	$2^3 2^4 1 \times 421 \times 5279 \times 22741 \times 180797 \times 2028881 \times 1750135897$ 061718365 369196461
36	$2^4 3^7 5^2 7 \times 43 \times 97 \times 367 \times 355074823 \times 1106953 \times 116695153 \times 360776629 \times 9879748201$
37	$2^3 2^1 149 \times 3701 \times 38629 \times 48767 \times 1151188993 \times 559063$ 431160379 $\times 2037483$ 610607149
38	$2^3 3^5 \times 1217 \times 461207 \times 6199321 \times 11$ 296429861 $\times 96049$ 817712809 $\times 384863$ 807850569
39	$2^3 3^7 \times 43 \times 3845557 \times 266$ 494324513 $\times 1507341603$ 362447725 666424653 787004241
40	$2^5 3^5 5^4 11^2 41^2 61 \times 97 \times 181 \times 2801 \times 4337 \times 22741 \times 223621 \times 512821 \times 431$ 202896489 981230001
41	$2^3 2^6 11972807 \times 76999231 \times 30312942$ 645971154 028855878 936812255 836633153
42	$2^3 3^5 \times 7^3 43^2 367 \times 5279 \times 6427 \times 60733 \times 178207 \times 180797 \times 392113 \times 68$ 047016857 $\times 410$ 596007431
43	$2^3 2^1 173 \times 9618757 \times 17$ 387931931 $\times 3859$ 988298821 $\times 13096$ 269123844 781527897 833124873
44	$2^4 3^5 5^2 67 \times 97 \times 1013 \times 921031 \times 19461641 \times 1000799$ 915207423 $\times 1321047225$ 891968166 604058597
45	$2^3 4^7 \times 41 \times 43 \times 61 \times 1171 \times 22741 \times 17449351 \times 797425471 \times 360776629 \times 1653672845$ 281507401 342640591
46	$2^3 3^5 \times 139 \times 1151 \times 193799 \times 1365373 \times 1012$ 041841693 $\times 4546216153$ 227892433 $\times 8202263784$ 323601389
47*	$2^3 2^2 \times 283 \times 659 \times 8461 \times 214075319 \times 4540318666082540509408725756646228718391445377353681$
48	$2^6 3^5 5^2 7 \times 11^2 17 \times 43 \times 73 \times 97^2 367 \times 4337 \times 48649 \times 309313 \times 368593 \times 1106953 \times 94437841 \times 358043041 \times 32$ 338543681
49	$2^3 2^5 279 \times 11173 \times 180797 \times 6078451 \times 47557637 \times 509472290$ 767993197 511902943 346953579 859024897
50	$2^3 3^5 3^4 1 \times 601^2 22741 \times 39451 \times 223621 \times 118791$ 119997301 $\times 2134969$ 289830801 $\times 88$ 929649816 699369751

Field Size: 32

$C1 = 5$

$A2 = 0$

$A6 = Q^2 + Q + 1, Q^3 + Q + 1, Q^3 + Q^2 + Q + 1, Q^4 + Q^2 + 1, Q^4 + Q^2 + Q + 1$

n	N_n	X	Tier
1	28	1.0	1
2	1064	1.4142	1
3	33124	4.4979	3
4	1049104	5.9954	3
5	33545708	2.1016	1
6	1073681336	5.9630	3
7	34359715124	3.5470	2
8	1099513447200	11.407	5
9	35184381929788	3.0446	2
10	1125899897825864	5.8321	3
11	36028796658969604	3.078	2
12	1152921503095411504	9.4253	5
13	36893488151381745548	1.5558	1
14	1180591620785590450136	10.654	5
15	37778931863171252889044	8.0181	5
16	1208925819613517897908800	7.3682	4
17	38685626227655726288867548	2.0861	1
18	1237940039285353799247989864	8.3709	5
19	39614081257132433452171666084	3.6392	2
20	1267650600228231571994537959504	9.9958	5
21	40564819207303343231410886233388	7.2962	4
22	1298074214633706849594275288479736	7.6278	4
23	41538374868278620664279702387470964	5.1695	3
24	1329227995784915872925212880451304800	11.74	5
25	42535295865117307944675711613707101308	4.8576	3
26	1361129467683753853911582871905282493064	7.0560	4
27	43556142965880123323226247620245824906564	5.1592	3
28	1393796574908163946343695179235717354613104	12.814	5
29	44601490397061246283062742949465353011521228	3.9982	2
30	1427247692705959881058315692280092054044890136	11.295	5
31	45671926166590716193865577831603432792572676884	2.0508	1

32	1461 501637330 902918203 686015631 801860432 367875200	8. 1052	5
33	46768 052394588 893382517 906903603 624003165 624919068	10. 827	5
34	1496577 676626844 588240573 192131590 046093707 911095464	8. 1704	5
35	47890485 652059026 823698344 463383901 001942137 430275044	6. 2504	4
36	1532495540 865888858 358347028 925229159 201108765 906972304	9. 1883	5
37	49 039857307 708443467 467104882 006518105 268090852 906921068	4. 0583	3
38	1569 275433846 670190958 947355811 102285954 295227232 019041336	10. 791	5
39	50216 813883093 446110686 315385284 967763119 385340115 315322804	11. 679	5
40	1606938 044258990 275541962 092338986 842871987 098989095 698180000	7. 9773	4
41*	51422017 416287688 817342786 954918368 116561798 989979987 789008828	1. 1138	1
42	1645504557 321206042 154969182 557425953 470799290 211631257 033317064	15. 28	5
43	52 656145834 278593348 959013841 835556127 140623121 119032849 679355524	1.0	1
44	1684 996666696 914987166 688442938 726202589 168873926 510521583 684317104	15. 623	5
45	53919 893334301 279589334 030174039 246895742 347169202 745398660 000144908	17. 34	5
46	1725436 586697640 946858688 965569256 313719538 419542637 449244424 276533336	9. 0241	5
47	55213970 774324510 299478046 898216203 835091699 793491405 279602670 944624724	1. 5705	1
48	1766847064 778384329 583297500 742918518 485481679 308259216 378597204 005099200	18. 013	5
49	56 539106072 908298546 665520023 773392512 874023115 666901940 350674185 990858588	2. 1794	1
50	1809 251394333 065553493 296640760 748560154 260273441 024801254 597416759 978437864	12. 305	5

n	Prime Factorization
1	2^{27}
2	$2^{37} \times 19$
3	$2^{27} 2^{13} 2^2$
4	$2^{47} \times 17 \times 19 \times 29$
5	$2^{27} \times 41 \times 29221$
6	$2^{37} 2^{13} 2^{19} \times 853$
7	$2^{27} 2^{1009} \times 173741$
8	$2^5 3^{25} 7 \times 17^2 19 \times 29 \times 137$
9	$2^{27} 2^{13} 2^{19} \times 55905373$
10	$2^{37} \times 19 \times 41 \times 29221 \times 883241$
11	$2^{27} \times 234961 \times 5476409863$
12	$2^{47} 2^{13} 3^{17} \times 19 \times 29 \times 853 \times 83773$
13	$2^{27} \times 313 \times 4209663 184776557$
14	$2^{37} 2^{19} \times 29 \times 1009 \times 1373 \times 22709 \times 173741$
15	$2^{27} 2^{13} 2^{41} \times 61 \times 421 \times 29221 \times 37069441$
16	$2^6 3^{25} 7 \times 17^2 19 \times 29 \times 31^2 137 \times 572065457$
17	$2^{27} \times 239 \times 1123 \times 5147708462 205470453$

18	$2^{37} 13^2 19^2 853 \times 55905373 \times 1085468077$
19	$2^{27} \times 45 \ 616600529 \times 31014775 \ 321250207$
20	$2^{47} \times 17 \times 19 \times 29 \times 41^2 61 \times 29221 \times 883241 \times 456571901$
21	$2^{27} 4^4 13^2 1009 \times 131251 \times 173741 \times 1086 \ 211970677$
22	$2^{37} \times 19 \times 23^2 234961 \times 5476409863 \times 1792 \ 299143317$
23	$2^{27} \times 6767797 \times 3791640667 \times 57811864 \ 197218237$
24	$2^5 3^4 5^2 7^2 11^2 13^3 17^2 19 \times 29 \times 137 \times 853 \times 83773 \times 1010159281$
25	$2^{27} \times 41 \times 29221 \times 120 \ 778860551 \times 10 \ 498362574 \ 027252651$
26	$2^{37} \times 19 \times 79 \times 313 \times 1249 \times 9839 \ 580696791 \times 4209663 \ 184776557$
27	$2^{27} 13^2 19 \times 13819681 \times 55905373 \times 89 \ 578022317 \ 419592063$
28	$2^{47} 7^2 17 \times 19 \times 29^2 953 \times 1009 \times 1373 \times 22709 \times 173741 \times 261241 \times 4809373913$
29	$2^{27} \times 59 \times 4820554 \ 409667979 \times 5600700 \ 370842063 \ 726169741$
30	$2^{37} 13^2 19 \times 41 \times 61 \times 421 \times 853 \times 29221 \times 883241 \times 37069441 \times 1319 \ 586385681$
31	$2^{27} \times 4217 \times 1108313 \times 348999872 \ 438007598 \ 987213975 \ 771771043$
32	$2^7 3^5 2^7 \times 17^2 19 \times 29 \times 31^2 97 \times 137 \times 14369 \times 572065457 \times 433681981 \ 332859489$
33	$2^{27} 13^2 234961 \times 36923701 \times 244751233 \times 5476409863 \times 121418 \ 445648853$
34	$2^{37} \times 19 \times 239 \times 1123 \times 28663 \times 472669 \times 75142 \ 782219763 \times 5147708462 \ 205470453$
35	$2^{27} 41 \times 701 \times 1009 \times 29221 \times 173741 \times 6975999241 \times 237901 \ 024959583 \ 689793181$
36	$2^{47} 7^2 13^3 17 \times 19^2 29 \times 853 \times 83773 \times 1085468077 \times 55905373 \times 1152856557 \ 622771849$
37	$2^{27} \times 149 \times 2323658609 \times 93 \ 229029797 \times 54260 \ 202642217 \ 813785105 \ 770628853$
38	$2^{37} \times 19^2 45 \ 616600529 \times 22 \ 895665609 \times 2396398 \ 929499423 \times 31014775 \ 321250207$
39	$2^{27} 13^3 13 \times 172147 \times 148333771 \times 7081479679 \times 489 \ 449433019 \times 4209663 \ 184776557$
40	$2^5 3^2 5^4 7 \times 17^2 19 \times 29 \times 41^2 61 \times 137 \times 29221 \times 883241 \times 456571901 \times 48381 \ 302427488 \ 277505801$
41*	$2^{27} \times 83 \times 22126513518196079525534762028794478535525731062814108342947$
42	$2^{37} 4^4 13^2 19 \times 29 \times 853 \times 1009 \times 1373 \times 22709 \times 56659 \times 131251 \times 173741 \times 235621 \times 103673431 \times 1086 \ 211970677$
43	$2^{27} \times 1880576636 \ 938521191 \ 034250494 \ 351269861 \ 683593682 \ 897108316 \ 059976983$
44	$2^{47} \times 17 \times 19 \times 23^2 29 \times 23893 \times 234961 \times 4508549 \times 3545731421 \times 5476409863 \times 3446746117 \times 1792 \ 299143317$
45	$2^{27} 13^2 19 \times 41 \times 61 \times 421 \times 29221 \times 42571 \times 143281 \times 1619281 \times 37069441 \times 55905373 \times 4043778031 \times 33 \ 641876701$
46	$2^{37} \times 19 \times 139 \times 2347 \times 4831 \times 6767797 \times 3791640667 \times 57811864 \ 197218237 \times 693587 \ 052543929 \ 380149851$
47	$2^{27} \times 1634211809 \times 1206653 \ 578682129 \ 567459226 \ 606509526 \ 466579245 \ 249595501 \ 862591587$
48	$2^6 3^4 5^2 7^2 11^2 13^3 17^2 19 \times 29 \times 31^2 137 \times 853 \times 83773 \times 3574609 \times 9932833 \times 1010159281 \times 572065457 \times 34 \ 048555633$
49	$2^{27} 3^8 83 \times 1009 \times 4999 \times 173741 \times 53 \ 254646091 \ 438238609 \ 261160011 \ 589261290 \ 695443134 \ 758349073$
50	$2^{37} \times 19 \times 41 \times 401 \times 29221 \times 883241 \times 156306701 \times 120 \ 778860551 \times 10 \ 498362574 \ 027252651 \times 20 \ 219232722 \ 026032701$

Field Size: 32

C1= -5

A2=1

A6= Q^2+Q+1 , Q^3+Q+1 , Q^3+Q^2+Q+1 , Q^4+Q^2+1 , Q^4+Q^2+Q+1

n	N_n	X	Tier
1	38	1.0	1
2	1064	2.0	1
3	32414	1.0	1
4	1049104	5. 5547	3
5	33563158	1.0	1
6	1073681336	5. 6671	3
7	34 359761614	4. 541	3
8	1099 513447200	10. 980	5
9	35184 362247878	2. 1167	1
10	1125899 897825864	5. 6567	3
11	36028797 378958334	1. 7684	1
12	1152921503 095411504	9. 1885	5
13	36 893488143 456460918	2. 4220	1
14	1180 591620785 590450136	10. 424	5
15	37778 931862743 070530094	3. 9066	2
16	1208925 819613517 897908800	7. 2289	4
17	38685626 227680540 892327718	3. 9445	2
18	1237940039 285353799 247989864	8. 2301	5
19	39 614081257 131904141 372284254	4. 0978	3
20	1267 650600228 231571994 537959504	9. 8443	5
21	40564 819207303 338464378 118910678	11. 174	5
22	1298074 214633706 849594275 288479736	7. 5226	4
23	41538374 868278621 392208238 880050574	2. 5113	2
24	1329227995 784915872 925212880 451304800	11. 592	5
25	42 535295865 117307921 167940244 234951558	4. 6744	3
26	1361 129467683 753853911 582871905 282493064	6. 9736	4
27	43556 142965880 123323397 651882286 837226174	4. 7491	3
28	1393796 574908163 946343695 179235717 354613104	12. 675	5
29	44601490 397061246 283080130 141128093 012400438	4. 4390	3

30	1427247692 705959881 058315692 280092054 044890136	11. 181	5
31	45 671926166 590716193 864724213 164255935 923107054	1. 9936	1
32	1461 501637330 902918203 686015631 801860432 367875200	8. 0282	5
33	46768 052394588 893382517 922390238 489254814 057831398	8. 5834	5
34	1496577 676626844 588240573 192131590 046093707 911095464	8. 0974	5
35	47890485 652059026 823698344 733510422 974229057 706200094	2. 6655	2
36	1532495540 865888858 358347028 925229159 201108765 906972304	9. 1107	5
37	49 039857307 708443467 467104855 613269646 331212966 843618198	1. 3903	1
38	1569 275433846 670190958 947355811 102285954 295227232 019041336	10. 705	5
39	50216 813883093 446110686 315386037 694894518 301771309 236883534	10. 570	5
40	1606938 044258990 275541962 092338986 842871987 098989095 698180000	7. 9166	4
41	51422017 416287688 817342786 954916038 444859192 612118753 670279238	1. 392	1
42	1645504557 321206042 154969182 557425953 470799290 211631257 033317064	15. 169	5
43	52 656145834 278593348 959013841 834876191 754472279 430078404 631622014	3. 1314	2
44	1684 996666696 914987166 688442938 726202589 168873926 510521583 684317104	15. 515	5
45	53919 893334301 279589334 030174039 275798806 230520959 544525754 440851958	4. 6495	3
46	1725436 586697640 946858688 965569256 313719538 419542637 449244424 276533336	8. 9644	5
47	55213970 774324510 299478046 898216203 404126043 761234779 602997716 636164014	1. 9358	1
48	1766847064 778384329 583297500 742918518 485481679 308259216 378597204 005099200	17. 899	5
49	56 539106072 908298546 665520023 773392500 084946284 372711379 432122696 736807078	1. 4534	1
50	1809 251394333 065553493 296640760 748560154 260273441 024801254 597416759 978437864	12. 23	5

n	Prime Factorization
1	2×19
2	$2^3 \times 19$
3	$2 \times 19 \times 853$
4	$2^4 \times 17 \times 19 \times 29$
5	$2 \times 19 \times 883241$
6	$2^3 \times 13^2 \times 19 \times 853$
7	$2 \times 19 \times 29 \times 1373 \times 22709$
8	$2^5 \times 3^2 \times 7 \times 17^2 \times 19 \times 29 \times 137$
9	$2 \times 19 \times 853 \times 1085468077$
10	$2^3 \times 19 \times 41 \times 29221 \times 883241$
11	$2 \times 19 \times 23^2 \times 1792 \times 299143317$
12	$2^4 \times 7^2 \times 13^3 \times 17 \times 19 \times 29 \times 853 \times 83773$
13	$2 \times 19 \times 79 \times 1249 \times 9839 \times 580696791$
14	$2^3 \times 7^2 \times 19 \times 29 \times 1009 \times 1373 \times 22709 \times 173741$
15	$2 \times 19 \times 853 \times 883241 \times 1319 \times 586385681$

16	$2^6 3^5 5^2 7 \times 17^2 19 \times 29 \times 31^2 137 \times 572065457$
17	$2 \times 19 \times 28663 \times 472669 \times 75142 \ 782219763$
18	$2^3 7^2 13^2 19^2 853 \times 55905373 \times 1085468077$
19	$2 \times 19^2 22 \ 895665609 \times 2396398 \ 929499423$
20	$2^4 7 \times 17 \times 19 \times 29 \times 41^2 61 \times 29221 \times 883241 \times 456571901$
21	$2 \times 19 \times 29 \times 853 \times 1373 \times 22709 \times 56659 \times 235621 \times 103673431$
22	$2^3 7 \times 19 \times 23^2 234961 \times 5476409863 \times 1792 \ 299143317$
23	$2 \times 19 \times 139 \times 2347 \times 4831 \times 693587 \ 052543929 \ 380149851$
24	$2^5 3^4 5^2 7^2 11^2 13^3 17^2 19 \times 29 \times 137 \times 853 \times 83773 \times 1010159281$
25	$2 \times 19 \times 401 \times 883241 \times 156306701 \times 20 \ 219232722 \ 026032701$
26	$2^3 7 \times 19 \times 79 \times 313 \times 1249 \times 9839 \ 580696791 \times 4209663 \ 184776557$
27	$2 \times 19 \times 757 \times 853 \times 2647 \times 1085468077 \times 617 \ 802854273 \ 482437127$
28	$2^4 7^2 17 \times 19 \times 29^2 53 \times 1009 \times 1373 \times 22709 \times 173741 \times 261241 \times 4809373913$
29	$2 \times 19 \times 59 \times 2089^2 22 \ 932436199 \times 198786 \ 409328948 \ 144562941$
30	$2^3 7^2 13^2 19 \times 41 \times 61 \times 421 \times 853 \times 29221 \times 883241 \times 37069441 \times 1319 \ 586385681$
31	$2 \times 19 \times 4093 \times 475169 \times 617982087 \ 590864164 \ 165926670 \ 909680049$
32	$2^7 3^5 5^2 7 \times 17^2 19 \times 29 \times 31^2 97 \times 137 \times 14369 \times 572065457 \times 433681981 \ 332859489$
33	$2 \times 19 \times 23^2 853 \times 1792 \ 299143317 \times 7997 \ 150184013 \times 190289679 \ 882966973$
34	$2^3 7 \times 19 \times 239 \times 1123 \times 28663 \times 472669 \times 75142 \ 782219763 \times 5147708462 \ 205470453$
35	$2 \times 19 \times 29 \times 1373 \times 22709 \times 883241 \times 1578046798 \ 030225744 \ 646965408 \ 635968881$
36	$2^4 7^2 13^3 17 \times 19^2 29 \times 853 \times 83773 \times 1085468077 \times 55905373 \times 1152856557 \ 622771849$
37	$2 \times 19 \times 197137 \times 6546 \ 323423452 \ 571384029 \ 100902526 \ 678567687 \ 394121433$
38	$2^3 7 \times 19^2 45 \ 616600529 \times 22 \ 895665609 \times 2396398 \ 929499423 \times 31014775 \ 321250207$
39	$2 \times 19 \times 79^2 853 \times 1249 \times 3433 \times 9839 \ 580696791 \times 38632 \ 529507989 \times 152298759 \ 339641227$
40	$2^5 3^5 5^4 7 \times 17^2 19 \times 29 \times 41^2 61 \times 137 \times 29221 \times 883241 \times 456571901 \times 48381 \ 302427488 \ 277505801$
41	$2 \times 19 \times 83 \times 9349 \times 1743902749 \ 265303428 \ 779248376 \ 708506202 \ 917717425 \ 046451503$
42	$2^3 7^4 13^2 19 \times 29 \times 853 \times 1009 \times 1373 \times 22709 \times 56659 \times 131251 \times 173741 \times 235621 \times 103673431 \times 1086 \ 211970677$
43	$2 \times 19 \times 1549 \times 12195661 \times 109 \ 799243369 \times 668050 \ 605742346 \ 451960184 \ 942096603 \ 368379733$
44	$2^4 7 \times 17 \times 19 \times 23^2 29 \times 23893 \times 234961 \times 4508549 \times 3545731421 \times 5476409863 \times 3446746117 \times 1792 \ 299143317$
45	$2 \times 19 \times 853 \times 883241 \times 1085468077 \times 1319 \ 586385681 \times 1314868417 \ 557385261 \ 676507307 \ 697231441$
46	$2^3 7 \times 19 \times 139 \times 2347 \times 4831 \times 6767797 \times 3791640667 \times 57811864 \ 197218237 \times 693587 \ 052543929 \ 380149851$
47	$2 \times 19 \times 659 \times 2069 \times 2633 \times 8461 \times 47 \ 835126302 \ 902082825 \ 582492004 \ 874345421 \ 923437706 \ 899668311$
48	$2^6 3^4 5^2 7^2 11^2 13^3 17^2 19 \times 29 \times 31^2 137 \times 853 \times 83773 \times 3574609 \times 9932833 \times 1010159281 \times 572065457 \times 34 \ 048555633$
49	$2 \times 19 \times 29 \times 1373 \times 22709 \times 1645503444 \ 059729748 \ 818434861 \ 908800450 \ 855332476 \ 241571382 \ 499060277$
50	$2^3 7 \times 19 \times 41 \times 401 \times 29221 \times 883241 \times 156306701 \times 120 \ 778860551 \times 10 \ 498362574 \ 027252651 \times 20 \ 219232722 \ 026032701$

Field Size: 32

C1= 7

A2= 1

A6= Q, Q², Q³+Q², Q⁴

n	N _n	X	Tier
1	26	1.0	1
2	1040	2. 8284	2
3	33098	2. 6684	2
4	1050400	4. 4721	3
5	33556666	1. 6154	1
6	1073699120	6. 0881	4
7	34 359367978	1.0	1
8	1099 510401600	5. 4039	3
9	35184 375358106	2. 2130	1
10	1125899 968965200	7. 1897	4
11	36028797 349205258	1. 7684	1
12	1152921504 930613600	13. 143	5
13	36 893488139 117748346	4. 2966	3
14	1180 591620648 941287280	5. 6569	3
15	37778 931862743 514952938	6. 5046	4
16	1208925 819615324 687926400	8. 5889	5
17	38685626 227679838 879351386	1.0	1
18	1237940039 285439955 497353360	8. 4152	5
19	39 614081257 132211991 719459018	6. 3011	4
20	1267 650600228 227794082 192260000	15. 168	5
21	40564 819207303 328213754 606471226	8. 9514	5
22	1298074 214633706 870130909 159851440	6. 9836	4
23	41538374 868278621 173524442 851811498	4. 1025	3
24	1329227995 784915875 104825243 325214400	14. 824	5
25	42 535295865 117307943 679978099 307491866	1. 7556	1
26	1361 129467683 753853858 372913061 992269520	5. 7514	3
27	43556 142965880 123323001 810265160 000138378	7. 8944	4
28	1393796 574908163 946343655 432171060 856069600	6. 4467	4
29	44601490 397061246 283065072 289765893 435277306	4. 6909	3
30	1427247692 705959881 058315882 376602104 963695600	13. 362	5
31	45 671926166 590716193 865564069 050579690 768407658	4. 0088	3

32	1461 501637330 902918203 686766829 282743946 985785600	14. 971	5
33	46768 052394588 893382517 914968218 719168578 557571546	3. 5721	2
34	1496577 676626844 588240573 209058941 458727482 233617680	5. 6569	3
35	47890485 652059026 823698344 170667910 313017409 817227338	2. 7239	2
36	1532495540 865888858 358347026 064415457 202067974 019002400	14. 074	5
37	49 039857307 708443467 467104874 897573844 485135880 755398586	2. 9054	2
38	1569 275433846 670190958 947355879 278963051 720725653 436723760	12. 406	5
39	50216 813883093 446110686 315386008 062083003 831120406 108645418	4. 3585	3
40	1606938 044258990 275541962 092341114 122312661 687070451 964040000	9. 4793	5
41*	51422017 416287688 817342786 954905768 535109787 051992781 989462426	1. 1138	1
42	1645504557 321206042 154969182 557272013 130236226 204978650 047701840	10. 940	5
43	52 656145834 278593348 959013841 835032628 339272904 244157973 734949898	7. 0809	4
44	1684 996666696 914987166 688442938 728144123 843591298 288235320 660898400	7. 4922	4
45	53919 893334301 279589334 030174039 275809420 408092780 634873878 474547066	9. 9279	5
46	1725436 586697640 946858688 965569256 425083111 371700028 989604275 906039920	11. 458	5
47	55213970 774324510 299478046 898216203 590612534 862038735 219822227 611468778	2. 8129	2
48	1766847064 778384329 583297500 742918513 641458846 351310622 345223802 837257600	12. 823	5
49	56 539106072 908298546 665520023 773392492 105192127 640027740 544016569 901916506	1. 5351	1
50	1809 251394333 065553493 296640760 748560176 676264010 753227425 937313773 980826000	7. 4953	4

n	Prime Factorization
1	2×13
2	$2^4 \times 13$
3	$2 \times 13 \times 19 \times 67$
4	$2^5 5^2 13 \times 101$
5	$2 \times 11 \times 13 \times 117331$
6	$2^4 5 \times 13 \times 19 \times 67 \times 811$
7	$2 \times 13 \times 1321514153$
8	$2^6 3^2 5^2 13 \times 101 \times 58153$
9	$2 \times 13 \times 19 \times 67 \times 1063036297$
10	$2^4 5^2 11^2 13 \times 101 \times 151 \times 117331$
11	$2 \times 13 \times 23^2 2619 514130377$
12	$2^5 5^2 7^2 13^2 19 \times 67 \times 101 \times 811 \times 1669$
13	$2 \times 13^2 13082473 \times 8343402029$
14	$2^4 5 \times 13 \times 859002719 \times 1321514153$
15	$2 \times 11 \times 13 \times 19 \times 31^2 67 \times 117331 \times 920278081$
16	$2^7 3^2 5^2 13 \times 101 \times 10369 \times 58153 \times 53019233$
17	$2 \times 13 \times 1487908 701064609 187667361$

18	$2^4 5 \times 13 \times 19^2 67 \times 811 \times 57084121 \times 1063036297$
19	$2 \times 13 \times 22079 \times 69 \ 977184757 \times 986 \ 144085131$
20	$2^5 5^4 11^2 13 \times 101^2 151 \times 181 \times 241 \times 1381 \times 3701 \times 117331$
21	$2 \times 13 \times 19 \times 67 \times 2143 \times 27091 \times 1321514153 \times 15 \ 974554933$
22	$2^4 5 \times 13 \times 23^2 67 \times 2619 \ 514130377 \times 13443 \ 580854001$
23	$2 \times 13 \times 24473 \times 5146446421 \times 12 \ 684737591 \ 836666381$
24	$2^6 3^4 5^2 7^2 13^2 19 \times 67 \times 97 \times 101 \times 313 \times 811 \times 1669 \times 58153 \times 4030849$
25	$2 \times 11 \times 13 \times 117331 \times 1267 \ 566207713 \ 165185828 \ 651097201$
26	$2^4 5 \times 13^2 13082473 \times 8343402029 \times 922337203 \ 893011453$
27	$2 \times 13 \times 19 \times 67 \times 163 \times 487 \times 811 \times 19387 \times 1063036297 \times 991862 \ 656116589$
28	$2^5 5^2 13 \times 101 \times 859002719 \times 1321514153 \times 1168902594 \ 837506257$
29	$2 \times 13 \times 53819071 \times 543 \ 741397847 \times 58620 \ 217713169 \ 000165513$
30	$2^4 5^2 11^2 13 \times 19 \times 31^2 67 \times 101 \times 151^2 811 \times 117331 \times 920278081 \times 9194558311$
31	$2 \times 13 \times 1861 \times 6883 \times 385 \ 297994423 \times 355922209 \ 574038966 \ 509322417$
32	$2^8 3^2 5^2 13 \times 101 \times 10369 \times 58153 \times 591649 \times 53019233 \times 736334849 \times 1387490977$
33	$2 \times 13 \times 19 \times 23^2 67 \times 2619 \ 514130377 \times 1019 \ 696938519 \ 646984682 \ 731701969$
34	$2^4 5 \times 13 \times 239 \times 160073 \times 3060749 \times 8259351299 \times 1487908 \ 701064609 \ 187667361$
35	$2 \times 11 \times 13 \times 117331 \times 1321514153 \times 1079937488 \ 328292512 \ 455664360 \ 870329281$
36	$2^5 5^2 7^2 13^2 19^2 67 \times 101 \times 811 \times 1669 \times 4307833 \times 57084121 \times 1063036297 \times 267 \ 623106841$
37	$2 \times 13 \times 324475201 \times 424313189 \times 13 \ 699597528 \ 963171146 \ 130318101 \ 369789949$
38	$2^4 5 \times 13 \times 4409 \times 22079 \times 69 \ 977184757 \times 1344580411 \times 986 \ 144085131 \times 167056 \ 246073417$
39	$2 \times 13^2 19 \times 67 \times 4759 \times 13082473 \times 8343402029 \times 224675 \ 298812011 \ 506377476 \ 303401319$
40	$2^6 3^2 5^4 11^2 13 \times 101^2 151 \times 181 \times 241 \times 1381 \times 3701 \times 23081 \times 58153 \times 117331 \times 52 \ 468701485 \ 225807321$
41*	$2 \times 13 \times 83 \times 23828553019595777950575897569465138338790448124185719179547$
42	$2^4 5 \times 13 \times 19 \times 67 \times 811 \times 2143 \times 27091 \times 15 \ 974554933 \times 859002719 \times 1321514153 \times 1455707637 \ 832782769$
43	$2 \times 13 \times 7233719 \times 1576 \ 108610833 \times 313987834 \ 614007033 \times 565737702 \ 034807129 \ 792229303$
44	$2^5 5^2 13 \times 23^2 67 \times 101 \times 6029 \times 2619 \ 514130377 \times 13443 \ 580854001 \times 213173328 \ 028999595 \ 048739509$
45	$2 \times 11 \times 13 \times 19 \times 31^2 67 \times 117331 \times 920278081 \times 1063036297 \times 467432 \ 926803631 \times 2872 \ 314260269 \ 137413551$
46	$2^4 5 \times 13 \times 599 \times 24473 \times 48761 \times 5146446421 \times 105 \ 508031147 \times 336980 \ 340769747 \times 12 \ 684737591 \ 836666381$
47	$2 \times 13 \times 283 \times 2633 \times 34217 \times 50 \ 533346449 \times 1648 \ 232029387 \ 327248390 \ 701138314 \ 680170558 \ 813642219$
48	$2^7 3^4 5^2 7^2 13^2 17^2 19 \times 67 \times 97^3 101 \times 313 \times 811 \times 1669 \times 10369 \times 58153 \times 4030849 \times 53019233 \times 444588124 \ 018476001$
49	$2 \times 13 \times 1321514153 \times 1645522295669401982347066559414272602430265579422353475414209977$
50	$2^4 5^3 11^2 \times 13 \times 101 \times 151 \times 117331 \times 253 \ 546985682 \ 711166016 \ 914978801 \times 1267 \ 566207713 \ 165185828 \ 651097201$

Field Size: 32

 $C1 = -7$ $A2 = 0$ $A6 = Q, Q^2, Q^3+Q^2, Q^4$

n	N_n	X	Tier
1	40	1.0	1
2	1040	1.4142	1
3	32440	1.0	1
4	1050400	4.0155	3
5	33552200	5.6097	3
6	1073699120	5.6663	3
7	34360108760	1.0	1
8	1099510401600	5.1206	3
9	35184368819560	2.9195	2
10	1125899968965200	6.8866	4
11	36028796688722680	1.4656	1
12	1152921504930613600	12.680	5
13	36893488155720458120	1.0	1
14	1180591620648941287280	5.4854	3
15	37778931863170808466200	5.4214	3
16	1208925819615324687926400	8.3607	5
17	38685626227656428301843880	6.7230	4
18	1237940039285439955497353360	8.2162	5
19	39614081257132125601824491320	4.7017	3
20	1267650600228227794082192260000	14.845	5
21	40564819207303353482034398672840	3.6640	2
22	1298074214633706870130909159851440	6.8482	4
23	41538374868278620882963498415710040	6.3659	4
24	1329227995784915875104825243325214400	14.56	5
25	42535295865117307922163673758634561000	1.8404	1
26	1361129467683753853858372913061992269520	5.6569	3
27	43556142965880123323622089237372661994360	12.451	5
28	1393796574908163946343655432171060856069600	6.3483	4
29	44601490397061246283077800800827552588644360	10.012	5
30	1427247692705959881058315882376602104963695600	13.171	5
31	45671926166590716193864737975717109037727376280	3.9849	2

32	1461 501637330 902918203 686766829 282743946 985785600	14. 77	5
33	46768 052394588 893382517 914325623 394089401 125178920	9. 6276	5
34	1496577 676626844 588240573 209058941 458727482 233617680	5. 5856	3
35	47890485 652059026 823698345 026226413 663153785 319247800	2. 6577	2
36	1532495540 865888858 358347026 064415457 202067974 019002400	13. 906	5
37	49 039857307 708443467 467104862 722213907 114167938 995140680	3. 885	2
38	1569 275433846 670190958 947355879 278963051 720725653 436723760	12. 266	5
39	50216 813883093 446110686 315385314 600574633 855991018 443560920	5. 5340	3
40	1606938 044258990 275541962 092341114 122312661 687070451 964040000	9. 3778	5
41*	51422017 416287688 817342786 954928638 026311204 550105959 469825640	1. 1138	1
42	1645504557 321206042 154969182 557272013 130236226 204978650 047701840	10. 828	5
43	52 656145834 278593348 959013841 835399690 555822496 304953280 576027640	1. 3987	1
44	1684 996666696 914987166 688442938 728144123 843591298 288235320 660898400	7. 4192	4
45	53919 893334301 279589334 030174039 246885128 169597381 655050535 966449800	16. 581	5
46	1725436 586697640 946858688 965569256 425083111 371700028 989604275 906039920	11. 351	5
47	55213970 774324510 299478046 898216203 648605208 692687449 662778159 969319960	2. 0118	1
48	1766847064 778384329 583297500 742918513 641458846 351310622 345223802 837257600	12. 709	5
49*	56 539106072 908298546 665520023 773392520 853777272 399585579 238780312 825749160	1. 7858	1
50	1809 251394333 065553493 296640760 748560176 676264010 753227425 937313773 980826000	7. 431	4

n	Prime Factorization
1	2^35
2	$2^45 \times 13$
3	$2^35 \times 811$
4	$2^55^213 \times 101$
5	$2^35^211 \times 101 \times 151$
6	$2^45 \times 13 \times 19 \times 67 \times 811$
7	$2^35 \times 859002719$
8	$2^63^25^213 \times 101 \times 58153$
9	$2^35 \times 19 \times 811 \times 57084121$
10	$2^45^211^213 \times 101 \times 151 \times 117331$
11	$2^35 \times 67 \times 13443 580854001$
12	$2^55^27^213^219 \times 67 \times 101 \times 811 \times 1669$
13	$2^35 \times 922337203 893011453$
14	$2^45 \times 13 \times 859002719 \times 1321514153$
15	$2^35^211 \times 101 \times 151^2811 \times 9194558311$
16	$2^73^25^213 \times 101 \times 10369 \times 58153 \times 53019233$
17	$2^35 \times 239 \times 160073 \times 3060749 \times 8259351299$

18	$2^4 5 \times 13 \times 19^2 67 \times 811 \times 57084121 \times 1063036297$
19	$2^3 5 \times 4409 \times 1344580411 \times 167056 \times 246073417$
20	$2^5 5^4 11^2 13 \times 101^2 151 \times 181 \times 241 \times 1381 \times 3701 \times 117331$
21	$2^3 5 \times 811 \times 859002719 \times 1455707637 \times 832782769$
22	$2^4 5 \times 13 \times 23^2 67 \times 2619 \times 514130377 \times 13443 \times 580854001$
23	$2^3 5 \times 599 \times 48761 \times 105 \times 508031147 \times 336980 \times 340769747$
24	$2^6 3^4 5^2 7^2 13^2 19 \times 67 \times 97 \times 101 \times 313 \times 811 \times 1669 \times 58153 \times 4030849$
25	$2^3 5^3 11 \times 101 \times 151 \times 253 \times 546985682 \times 711166016 \times 914978801$
26	$2^4 5 \times 13^2 13082473 \times 8343402029 \times 922337203 \times 893011453$
27	$2^3 5 \times 19 \times 811 \times 38449 \times 10991 \times 540733697 \times 57084121 \times 2929247227$
28	$2^5 5^2 13 \times 101 \times 859002719 \times 1321514153 \times 1168902594 \times 837506257$
29	$2^3 5 \times 4583 \times 1422857 \times 4474643 \times 3544 \times 557489281 \times 10780 \times 970348033$
30	$2^4 5^2 11^2 13 \times 19 \times 31^2 67 \times 101 \times 151^2 811 \times 117331 \times 920278081 \times 9194558311$
31	$2^3 5 \times 791803 \times 5178 \times 867722101 \times 278443686 \times 625143162 \times 046315169$
32	$2^8 3^2 5^2 13 \times 101 \times 10369 \times 58153 \times 591649 \times 53019233 \times 736334849 \times 1387490977$
33	$2^3 5 \times 67 \times 811 \times 13443 \times 580854001 \times 391289 \times 207442541 \times 4090541 \times 503586869$
34	$2^4 5 \times 13 \times 239 \times 160073 \times 3060749 \times 8259351299 \times 1487908 \times 701064609 \times 187667361$
35	$2^3 5^2 11 \times 101 \times 151 \times 859002719 \times 1661627613 \times 313716548 \times 199338848 \times 620405121$
36	$2^5 5^2 7^2 13^2 19^2 67 \times 101 \times 811 \times 1669 \times 4307833 \times 57084121 \times 1063036297 \times 267 \times 623106841$
37	$2^3 5 \times 289637 \times 22165788 \times 258297247 \times 190964 \times 212277718 \times 698036509 \times 761239503$
38	$2^4 5 \times 13 \times 4409 \times 22079 \times 69 \times 977184757 \times 1344580411 \times 986 \times 144085131 \times 167056 \times 246073417$
39	$2^3 5 \times 79 \times 811 \times 1610467 \times 922337203 \times 893011453 \times 13 \times 191666416 \times 482512672 \times 427445317$
40	$2^6 3^2 5^4 11^2 13 \times 101^2 151 \times 181 \times 241 \times 1381 \times 3701 \times 23081 \times 58153 \times 117331 \times 52 \times 468701485 \times 225807321$
41*	$2^3 5 \times 83 \times 15488559462737255667874333420159228321178073659670469719827$
42	$2^4 5 \times 13 \times 19 \times 67 \times 811 \times 2143 \times 27091 \times 15 \times 974554933 \times 859002719 \times 1321514153 \times 1455707637 \times 832782769$
43	$2^3 5 \times 1844357 \times 713 \times 746658514 \times 032171496 \times 069007272 \times 390861565 \times 247705518 \times 846856663$
44	$2^5 5^2 13 \times 23^2 67 \times 101 \times 6029 \times 2619 \times 514130377 \times 13443 \times 580854001 \times 213173328 \times 028999595 \times 048739509$
45	$2^3 5^2 11 \times 19 \times 101 \times 151^2 181 \times 811 \times 2341 \times 57084121 \times 2890810711 \times 9194558311 \times 6087068011 \times 176 \times 491027981$
46	$2^4 5 \times 13 \times 599 \times 24473 \times 48761 \times 5146446421 \times 105 \times 508031147 \times 336980 \times 340769747 \times 12 \times 684737591 \times 836666381$
47	$2^3 5 \times 283 \times 2539 \times 258116011 \times 7442603940 \times 291119748 \times 653848396 \times 068937897 \times 536426968 \times 401250957$
48	$2^7 3^4 5^2 7^2 13^2 17^2 19 \times 67 \times 97^3 101 \times 313 \times 811 \times 1669 \times 10369 \times 58153 \times 4030849 \times 53019233 \times 444588124 \times 018476001$
49*	$2^3 5 \times 2549 \times 859002719 \times 645542102494961797275183269280025234211673732081604653932659$
50	$2^4 5^3 11^2 \times 13 \times 101 \times 151 \times 117331 \times 253546985682711166016914978801 \times 1267 \times 566207713 \times 165185828 \times 651097201$

Field Size: 32

C1= 9

A2= 0

A6=Q^3, Q^4+Q, Q^4+Q^3, Q^4+Q^3+Q^2, Q^4+Q^3+Q^2+Q

n	N _n	X	Tier
1	24	1.0	1
2	1008	2. 4495	1
3	32904	1. 4422	1
4	1050336	3. 0274	2
5	33565944	1.0	1
6	1073789136	6. 7889	4
7	34 359795816	1.0	1
8	1099 510630848	7. 2685	4
9	35184 361278168	2. 521	2
10	1125899 841448368	5. 6567	3
11	36028796 776356936	4. 0433	3
12	1152921504 515999904	7. 7455	4
13	36 893488154 364904632	5. 1333	3
14	1180 591620782 830622352	5. 6569	3
15	37778 931863323 669935144	10. 079	5
16	1208925 819615834 330530688	13. 215	5
17	38685626 227667251 729799832	2. 7520	2
18	1237940039 285333773 165559664	8. 9777	5
19	39 614081257 131778500 715423752	5. 8226	3
20	1267 650600228 227376887 668308576	9. 2175	5
21	40564 819207303 335115886 998146168	9. 593	5
22	1298074 214633706 920332045 659169872	7. 6164	4
23	41538374 868278621 330463004 967172072	10. 418	5
24	1329227995 784915875 201396878 821371200	14. 918	5
25	42 535295865 117307943 929125197 171104344	6. 0508	4
26	1361 129467683 753853879 041248947 560695088	12. 817	5
27	43556 142965880 123323189 601547668 319216584	10. 459	5
28	1393796 574908163 946344063 887993084 876299296	6. 4724	4
29	44601490 397061246 283058085 151384919 930733624	1. 1510	1
30	1427247692 705959881 058227199 033806915 622085136	17. 186	5
31	45 671926166 590716193 865049333 247828076 001209256	5. 1068	3

32	1461 501637330 902918203 685798167 360896126 053566208	6. 4873	4
33	46768 052394588 893382517 926590033 110038444 824431128	8. 0411	5
34	1496577 676626844 588240573 345295047 800765725 898767088	9. 3842	5
35	47890485 652059026 823698344 905609742 176725496 883285896	5. 8722	3
36	1532495540 865888858 358347027 463778037 680080584 826727904	16. 949	5
37	49 039857307 708443467 467104861 801910996 315248295 581854712	4. 7348	3
38	1569 275433846 670190958 947355728 813754780 266301782 787870672	9. 3718	5
39	50216 813883093 446110686 315385227 661137754 441437370 678562664	9. 1869	5
40	1606938 044258990 275541962 092339598 861978473 696616381 521678528	14. 711	5
41	51422017 416287688 817342786 954917007 061930992 994338600 028334552	1. 1138	1
42	1645504557 321206042 154969182 557398778 711119677 882508089 072754864	17. 521	5
43	52 656145834 278593348 959013841 835656902 003946100 329654321 114704712	1. 706	1
44	1684 996666696 914987166 688442938 729339026 020830017 315965091 435917216	9. 1342	5
45	53919 893334301 279589334 030174039 269040825 777828756 153469202 668078008	6. 8477	4
46	1725436 586697640 946858688 965569256 354853182 266180198 749432871 355313552	12. 489	5
47	55213970 774324510 299478046 898216203 299078869 338123911 164856502 162121512	10. 206	5
48	1766847064 778384329 583297500 742918513 207020914 182063059 093061287 058524800	15. 417	5
49	56 539106072 908298546 665520023 773392493 152277933 833457369 480692345 361709464	5. 9272	3
50	1809 251394333 065553493 296640760 748560171 253464951 150458271 741832515 114579568	8. 2332	5

n	Prime Factorization
1	2^3
2	$2^4 3^7$
3	$2^3 3^2 457$
4	$2^5 3^2 7 \times 521$
5	$2^3 3 \times 1398581$
6	$2^4 3^4 7^2 37 \times 457$
7	$2^3 3 \times 1431658159$
8	$2^6 3^2 7 \times 89 \times 521 \times 5881$
9	$2^3 3^3 457 \times 356434489$
10	$2^4 3^2 7 \times 798641 \times 1398581$
11	$2^3 3 \times 4722169 \times 317904731$
12	$2^5 3^4 7^2 37 \times 457 \times 521 \times 1030417$
13	$2^3 3 \times 79 \times 21755761 \times 894410947$
14	$2^4 3^2 7^2 116869663 \times 1431658159$
15	$2^3 3^2 61 \times 457 \times 44041 \times 305581 \times 1398581$
16	$2^7 3^2 7 \times 17^2 89 \times 97 \times 337 \times 521 \times 5881 \times 58193$
17	$2^3 3 \times 103 \times 289171 \times 54118584 412007261$

18	$2^4 3^6 7^2 37 \times 457 \times 356434489 \times 359383699$
19	$2^3 3 \times 30097 \times 11 \ 445726959 \times 4791 \ 502914101$
20	$2^5 3^2 7 \times 401 \times 521 \times 1398581 \times 798641 \times 2694559121$
21	$2^3 3^2 457 \times 212913163 \times 1431658159 \times 4044445651$
22	$2^4 3^2 7 \times 397 \times 4722169 \times 317904731 \times 2160 \ 777093773$
23	$2^3 3 \times 47 \times 277 \times 4049 \times 14260277 \times 341071279 \times 6750559111$
24	$2^6 3^4 5^2 7^2 11^2 37 \times 89 \times 97 \times 457 \times 521 \times 5881 \times 1030417 \times 3753457$
25	$2^3 3 \times 1398581 \times 25101 \ 846765251 \times 50482972 \ 435273351$
26	$2^4 3^2 7 \times 53 \times 79 \times 521 \times 21755761 \times 1148681 \times 27694109 \times 894410947$
27	$2^3 3^4 457 \times 1459 \times 103087 \times 5073139 \times 356434489 \times 540 \ 807285583$
28	$2^5 3^2 7^2 521 \times 116869663 \times 1431658159 \times 1133005394 \ 099800369$
29	$2^3 3 \times 59 \times 31498 \ 227681540 \ 428166001 \ 472564537 \ 372832439$
30	$2^4 3^4 7^2 37 \times 61 \times 271 \times 457 \times 1021 \times 44041 \times 1398581 \times 305581 \times 798641 \times 5238811$
31	$2^3 3 \times 316201 \times 9470749 \times 2994351443 \times 212220 \ 702963997 \ 336374617$
32	$2^8 3^2 7 \times 17^2 31^2 89 \times 97 \times 337 \times 521 \times 5881 \times 58193 \times 628 \ 993662650 \ 064525953$
33	$2^3 3^2 457 \times 279709 \times 1303963 \times 4722169 \times 317904731 \times 2595914367 \ 659906239$
34	$2^4 3^2 7 \times 103 \times 108461 \times 289171 \times 29083057 \times 292 \ 002575701 \times 54118584 \ 412007261$
35	$2^3 3 \times 2311 \times 2591 \times 67481 \times 1398581 \times 1431658159 \times 2466392 \ 406586795 \ 921195921$
36	$2^5 3^6 7^2 37^2 457 \times 521 \times 1030417 \times 40564549 \times 768193273 \times 356434489 \times 359383699$
37	$2^3 3 \times 2221 \times 6661 \times 22349 \times 1039553 \times 2817847 \times 2109 \ 734591650 \ 647634032 \ 891414847$
38	$2^4 3^2 7 \times 2053 \times 30097 \times 59699 \times 11 \ 445726959 \times 4791 \ 502914101 \times 7695632000 \ 044096439$
39	$2^3 3^2 79^2 157 \times 457 \times 213721 \times 21755761 \times 6552937 \times 894410947 \times 57 \ 154712895 \ 052520827$
40	$2^6 3^2 7 \times 89 \times 401^2 521 \times 3881 \times 5881 \times 1398581 \times 589921 \times 798641 \times 2694559121 \times 1319 \ 005215721$
41	$2^3 3 \times 83 \times 25814 \ 265771228 \ 759446457 \ 222366926 \ 208364423 \ 189254186 \ 044190931$
42	$2^4 3^4 7^4 37 \times 457 \times 92317 \times 116869663 \times 212913163 \times 2351 \ 254722643 \times 1431658159 \times 4044445651$
43	$2^3 3 \times 173 \times 54639499 \times 232105276 \ 966729709 \ 569035126 \ 438880330 \ 175690708 \ 263987469$
44	$2^5 3^2 7 \times 397^2 521 \times 83117 \times 4722169 \times 317904731 \times 2160 \ 777093773 \times 37752 \ 997366999 \ 185828041$
45	$2^3 3^3 61 \times 457 \times 44041 \times 1398581 \times 305581 \times 23630311 \times 356434489 \times 56 \ 484454279 \ 704913415 \ 337742711$
46	$2^4 3^2 7 \times 47 \times 277 \times 4049 \times 11731 \times 74567 \times 4341803 \times 341071279 \times 14260277 \times 6750559111 \times 260404443 \ 683840783$
47	$2^3 3 \times 11093 \times 74449 \times 2934882383 \times 12750 \ 746564419 \times 8456234 \ 824249739 \times 8802 \ 914992943 \ 441877253$
48	$2^7 3^4 5^2 7^2 11^2 17^2 37 \times 89 \times 97^2 337 \times 457 \times 521 \times 5881 \times 58193 \times 1030417 \times 3753457 \times 17 \ 366671921 \times 69611 \ 767238929$
49	$2^3 \times 3 \times 197 \times 491 \times 1431658159 \times 534897 \ 250280803 \ 909182643 \times 31803892 \ 708807157 \ 471838585 \ 768675139$
50	$2^4 3^2 7 \times 101 \times 1398581 \times 798641 \times 25101 \ 846765251 \times 50482972 \ 435273351 \times 12 \ 555302821 \ 232546370 \ 039824701$

Field Size: 32

$C1 = -9$

$A2 = 1$

$A6 = Q^3, Q^4+Q, Q^4+Q^3, Q^4+Q^3+Q^2, Q^4+Q^3+Q^2+Q$

n	N_n	X	Tier
1	42	1.0	1
2	1008	2. 8284	2
3	32634	2. 7589	2
4	1050336	2. 6321	2
5	33542922	1.0	1
6	1073789136	6. 1843	4
7	34 359680922	1. 3205	1
8	1099 510630848	6. 7774	4
9	35184 382899498	2. 3669	1
10	1125899 841448368	5. 3488	3
11	36028797 261571002	1. 7229	1
12	1152921504 515999904	7. 3926	4
13	36 893488140 473301834	6. 4238	4
14	1180 591620782 830622352	5. 4352	3
15	37778 931862590 653483994	8. 8917	5
16	1208925 819615834 330530688	12. 761	5
17	38685626 227669015 451395434	5. 4354	3
18	1237940039 285333773 165559664	8. 7028	5
19	39 614081257 132559092 828526586	2. 665	2
20	1267 650600228 227376887 668308576	8. 9632	5
21	40564 819207303 346579902 006997898	6. 8983	4
22	1298074 214633706 920332045 659169872	7. 4251	4
23	41538374 868278620 726024936 300349466	4. 7574	3
24	1329227995 784915875 201396878 821371200	14. 574	5
25	42 535295865 117307921 914526660 770948522	2. 0714	1
26	1361 129467683 753853879 041248947 560695088	12. 544	5
27	43556 142965880 123323434 297954864 342916154	5. 8669	3
28	1393796 574908163 946344063 887993084 876299296	6. 3443	4
29	44601490 397061246 283084787 939208526 093188042	4. 9446	3
30	1427247692 705959881 058227199 033806915 622085136	16. 868	5
31	45 671926166 590716193 865252711 519860652 494574682	1. 4175	1

32	1461 501637330 902918203 685798167 360896126 053566208	6. 3748	4
33	46768 052394588 893382517 902703809 003219534 858319338	5. 4021	3
34	1496577 676626844 588240573 345295047 800765725 898767088	9. 231	5
35	47890485 652059026 823698344 291284581 799445698 253189242	9. 3921	5
36	1532495540 865888858 358347027 463778037 680080584 826727904	16. 688	5
37	49 039857307 708443467 467104875 817876755 284055524 168684554	3. 1001	2
38	1569 275433846 670190958 947355728 813754780 266301782 787870672	9. 2348	5
39	50216 813883093 446110686 315386095 001519883 245674053 873643674	14. 197	5
40	1606938 044258990 275541962 092339598 861978473 696616381 521678528	14. 506	5
41	51422017 416287688 817342786 954917399 499489998 607760141 430953514	5. 0497	3
42	1645504557 321206042 154969182 557398778 711119677 882508089 072754864	17. 289	5
43*	52 656145834 278593348 959013841 834775416 891149300 219456933 196272826	1. 4793	1
44	1684 996666696 914987166 688442938 729339026 020830017 315965091 435917216	9. 0187	5
45	53919 893334301 279589334 030174039 253653722 799861406 136455211 772918858	9. 2275	5
46	1725436 586697640 946858688 965569256 354853182 266180198 749432871 355313552	12. 338	5
47*	55213970 774324510 299478046 898216203 940138874 216602273 717743885 418667226	2. 7921	2
48	1766847064 778384329 583297500 742918513 207020914 182063059 093061287 058524800	15. 239	5
49*	56 539106072 908298546 665520023 773392519 806691466 206155950 302104537 365956202	2. 4089	1
50	1809 251394333 065553493 296640760 748560171 253464951 150458271 741832515 114579568	8. 1416	5

n	Prime Factorization
1	$2 \times 3 \times 7$
2	$2^4 3^{27}$
3	$2 \times 3^{27} 2^{37}$
4	$2^5 3^{27} \times 521$
5	$2 \times 3 \times 7 \times 798641$
6	$2^4 3^4 7^{237} \times 457$
7	$2 \times 3 \times 7^{21} 16869663$
8	$2^6 3^{27} \times 89 \times 521 \times 5881$
9	$2 \times 3^{37} 2^{37} \times 359383699$
10	$2^4 3^{27} \times 798641 \times 1398581$
11	$2 \times 3 \times 7 \times 397 \times 2160 777093773$
12	$2^5 3^4 7^{237} \times 457 \times 521 \times 1030417$
13	$2 \times 3 \times 7 \times 53 \times 521 \times 1148681 \times 27694109$
14	$2^4 3^{27} 116869663 \times 1431658159$
15	$2 \times 3^{27} 2^{37} \times 271 \times 1021 \times 798641 \times 5238811$
16	$2^7 3^{27} \times 17^{289} \times 97 \times 337 \times 521 \times 5881 \times 58193$
17	$2 \times 3 \times 7 \times 108461 \times 29083057 \times 292 002575701$

18	$2^4 3^6 7^2 37 \times 457 \times 356434489 \times 359383699$
19	$2 \times 3 \times 7 \times 2053 \times 59699 \times 7695632000 \ 044096439$
20	$2^5 3^2 7 \times 401 \times 521 \times 1398581 \times 798641 \times 2694559121$
21	$2 \times 3^2 7^4 37 \times 92317 \times 116869663 \times 2351 \ 254722643$
22	$2^4 3^2 7 \times 397 \times 4722169 \times 317904731 \times 2160 \ 777093773$
23	$2 \times 3 \times 7 \times 11731 \times 74567 \times 4341803 \times 260404443 \ 683840783$
24	$2^6 3^4 5^2 7^2 11^2 37 \times 89 \times 97 \times 457 \times 521 \times 5881 \times 1030417 \times 3753457$
25	$2 \times 3 \times 7 \times 101 \times 798641 \times 12 \ 555302821 \ 232546370 \ 039824701$
26	$2^4 3^2 7 \times 53 \times 79 \times 521 \times 21755761 \times 1148681 \times 27694109 \times 894410947$
27	$2 \times 3^4 7^2 37 \times 541 \times 410833 \times 359383699 \times 1856588412 \ 763282447$
28	$2^5 3^2 7^2 521 \times 116869663 \times 1431658159 \times 1133005394 \ 099800369$
29	$2 \times 3 \times 7 \times 59^2 523 \times 74046 \ 995769707 \times 7877 \ 473043107 \ 438966561$
30	$2^4 3^4 7^2 37 \times 61 \times 271 \times 457 \times 1021 \times 44041 \times 1398581 \times 305581 \times 798641 \times 5238811$
31	$2 \times 3 \times 7 \times 49787 \times 21841 \ 581406597 \ 207051499 \ 030016211 \ 853281883$
32	$2^8 3^2 7 \times 17^2 31^2 89 \times 97 \times 337 \times 521 \times 5881 \times 58193 \times 628 \ 993662650 \ 064525953$
33	$2 \times 3^2 7^2 37 \times 397 \times 2243077 \times 2160 \ 777093773 \times 744790 \ 826889711 \ 734702461$
34	$2^4 3^2 7 \times 103 \times 108461 \times 289171 \times 29083057 \times 292 \ 002575701 \times 54118584 \ 412007261$
35	$2 \times 3 \times 7^2 1^2 5531 \times 798641 \times 116869663 \times 611 \ 215903411 \times 102407912 \ 971005041$
36	$2^5 3^6 7^2 37^2 457 \times 521 \times 1030417 \times 40564549 \times 768193273 \times 356434489 \times 359383699$
37	$2 \times 3 \times 7 \times 149 \times 5480441 \times 1858119503 \times 769528113 \ 261908477 \ 754355834 \ 840306331$
38	$2^4 3^2 7 \times 2053 \times 30097 \times 59699 \times 11 \ 445726959 \times 4791 \ 502914101 \times 7695632000 \ 044096439$
39	$2 \times 3^2 7^2 37 \times 53 \times 521 \times 7489 \times 1148681 \times 2787368377 \times 27694109 \times 60 \ 509690671 \times 1386 \ 868504711$
40	$2^6 3^2 7 \times 89 \times 401^2 521 \times 3881 \times 5881 \times 1398581 \times 589921 \times 798641 \times 2694559121 \times 1319 \ 005215721$
41	$2 \times 3 \times 7 \times 83 \times 3865153 \times 212 \ 642112849 \ 629222707 \times 17947 \ 574286407 \ 106600757 \ 356027769$
42	$2^4 3^4 7^4 37 \times 457 \times 92317 \times 116869663 \times 212913163 \times 2351 \ 254722643 \times 1431658159 \times 4044445651$
43*	$2 \times 3 \times 7 \times 947 \times 21673 \times 61084463993443397855753105727741445967217604756659021563$
44	$2^5 3^2 7 \times 397^2 521 \times 83117 \times 4722169 \times 317904731 \times 2160 \ 777093773 \times 37752 \ 997366999 \ 185828041$
45	$2 \times 3^3 7^2 37 \times 271 \times 1021 \times 84961 \times 798641 \times 5238811 \times 359383699 \times 325775431 \times 47827 \ 951149482 \ 971724791$
46	$2^4 3^2 7 \times 47 \times 277 \times 4049 \times 11731 \times 74567 \times 4341803 \times 341071279 \times 14260277 \times 6750559111 \times 260404443 \ 683840783$
47*	$2 \times 3 \times 7 \times 5923 \times 13537 \times 19553 \times 579669143 \times 1446578300773315422378005438071040083246685933957$
48	$2^7 3^4 5^2 7^2 11^2 17^2 37 \times 89 \times 97^2 337 \times 457 \times 521 \times 5881 \times 58193 \times 1030417 \times 3753457 \times 17 \ 366671921 \times 69611 \ 767238929$
49*	$2 \times 3 \times 7^3 491 \times 1818979 \times 116869663 \times 263204068540842600874910703561080241337080152413842767$
50	$2^4 3^2 7 \times 101 \times 1398581 \times 798641 \times 25101 \ 846765251 \times 50482972 \ 435273351 \times 12 \ 555302821 \ 232546370 \ 039824701$

Field Size: 32

C1= 11

A2= 1

A6= 1

n	N _n	X	Tier
1	22	1.0	1
2	968	2.0	1
3	32494	1. 9129	1
4	1047376	3. 0628	2
5	33550022	4. 0209	3
6	1073731736	6. 3407	4
7	34 359768542	8. 1916	5
8	1099 512282528	5. 5159	3
9	35184 378325558	3. 3605	2
10	1125899 954494568	10. 013	5
11	36028797 343560142	9. 3045	5
12	1152921506 652542704	10. 574	5
13	36 893488159 534678694	6. 8997	4
14	1180 591620785 220370232	12. 427	5
15	37778 931863315 363029694	8. 0715	5
16	1208925 819616399 499089728	9. 517	5
17	38685626 227676144 716572694	1. 9202	1
18	1237940039 285411746 904576264	10. 370	5
19	39 614081257 132258632 800745646	7. 5814	4
20	1267 650600228 229382588 845215376	15. 28	5
21	40564 819207303 337765155 144026758	17. 692	5
22	1298074 214633706 873827542 593987032	14. 806	5
23	41538374 868278620 760535733 735711646	4. 2085	3
24	1329227995 784915871 024779062 027980000	12. 699	5
25	42 535295865 117307920 819181528 932588022	3. 7032	2
26	1361 129467683 753853780 498237270 725689768	7. 7829	4
27	43556 142965880 123322896 232255047 742378894	6. 6101	4
28	1393796 574908163 946343745 505740721 227555376	15. 413	5
29	44601490 397061246 283060133 755877902 817707622	1. 9528	1

30	1427247692 705959881 058233219 127481757 976150136	16. 071	5
31	45 671926166 590716193 864932458 103099447 991433342	1. 9558	1
32	1461 501637330 902918203 684116519 499253686 122585728	17. 451	5
33	46768 052394588 893382517 913762813 419040642 138521558	9. 1768	5
34	1496577 676626844 588240573 281894586 879166884 111248968	7. 8387	4
35	47890485 652059026 823698344 771862850 128344025 119212142	14. 789	5
36	1532495540 865888858 358347028 635702135 016327131 252593104	11. 606	5
37	49 039857307 708443467 467104879 599914320 684850328 002983494	5. 5643	3
38	1569 275433846 670190958 947355873 074254474 603227425 205771032	15. 576	5
39	50216 813883093 446110686 315386098 784829521 675235733 357830494	12. 503	5
40	1606938 044258990 275541962 092343697 546215565 682541130 425732128	10. 466	5
41	51422017 416287688 817342786 954931089 149314994 763630409 609107894	2. 8819	2
42	1645504557 321206042 154969182 557422131 339197748 181704488 128927464	19. 79	5
43	52 656145834 278593348 959013841 835559701 573284441 501333255 596148046	6. 7566	4
44	1684 996666696 914987166 688442938 728404022 297850320 740345988 852702576	18. 014	5
45	53919 893334301 279589334 030174039 266710046 004832393 388303215 767083558	5. 5866	3
46	1725436 586697640 946858688 965569256 374521826 876537848 769432289 002402232	9. 2216	5
47	55213970 774324510 299478046 898216203 573499722 834216874 091446157 710646846	15. 893	5
48	1766847064 778384329 583297500 742918514 955193670 229162488 092678750 128920000	16. 159	5
49	56 539106072 908298546 665520023 773392498 359784973 089464476 768525633 115056022	15. 688	5
50	1809 251394333 065553493 296640760 748560145 940100657 086656143 098827670 144498568	10. 886	5

n	Prime Factorization
1	2×11
2	$2^3 11^2$
3	$2 \times 7 \times 11 \times 211$
4	$2^4 11^2 541$
5	$2 \times 11 \times 1051 \times 1451$
6	$2^3 7 \times 11^2 211 \times 751$
7	$2 \times 11 \times 71^2 491 \times 631$
8	$2^5 3^2 11^2 541 \times 58321$
9	$2 \times 7 \times 11 \times 37 \times 211 \times 29264761$
10	$2^3 11^2 151 \times 1051 \times 1451 \times 5051$
11	$2 \times 11^2 331 \times 991 \times 12541 \times 36191$
12	$2^4 7 \times 11^2 37 \times 211 \times 541 \times 751 \times 26821$
13	$2 \times 11 \times 53 \times 79 \times 1171 \times 16381 \times 20879821$
14	$2^3 11^2 29 \times 71^2 491 \times 631 \times 1051 \times 25621$
15	$2 \times 7 \times 11 \times 211 \times 1051 \times 1451 \times 17851 \times 42708451$

16	$2^6 3^2 11^2 113 \times 401 \times 541 \times 58321 \times 12132401$
17	$2 \times 11 \times 65587 \times 26\ 810763654\ 435499771$
18	$2^3 7 \times 11^2 37 \times 127 \times 211 \times 751 \times 8384041 \times 29264761$
19	$2 \times 11 \times 191^2 1901 \times 2851 \times 262543 \times 34\ 688090621$
20	$2^4 11^2 151 \times 541 \times 701 \times 1051 \times 1451 \times 5051 \times 12401 \times 119701$
21	$2 \times 7^3 11 \times 43 \times 71^2 211 \times 491 \times 631 \times 1471 \times 2311 \times 9661 \times 11551$
22	$2^3 11^4 23^2 331 \times 991 \times 12541 \times 36191 \times 133981 \times 1050281$
23	$2 \times 11 \times 4196903 \times 53941441 \times 8340178480\ 264645291$
24	$2^5 3^4 5^4 7 \times 11^2 37 \times 211 \times 541 \times 751 \times 26821 \times 58321 \times 195244921$
25	$2 \times 11 \times 1051 \times 1451 \times 107415001 \times 11802\ 981105192\ 534814001$
26	$2^3 11^2 53 \times 79 \times 1171 \times 2003 \times 16381 \times 20879821 \times 418616\ 258967271$
27	$2 \times 7 \times 11 \times 37 \times 109 \times 211 \times 2377 \times 33751 \times 29264761 \times 141565428\ 599973751$
28	$2^4 11^2 29^2 71^2 281^2 491 \times 541 \times 631 \times 1051 \times 13721 \times 25621 \times 34727701$
29	$2 \times 11 \times 6323 \times 42457 \times 7551864\ 775863049\ 526151903\ 437683291$
30	$2^3 7 \times 11^2 151^2 211 \times 751 \times 1051 \times 1451 \times 5051 \times 17851 \times 35851 \times 276901 \times 42708451$
31	$2 \times 11 \times 26041 \times 41231 \times 1933504207\ 201535679\ 794256069\ 689173291$
32	$2^7 3^2 11^2 31^2 113 \times 401 \times 541 \times 17921 \times 32993 \times 58321 \times 1766881 \times 602081 \times 12132401$
33	$2 \times 7 \times 11^2 67 \times 89^2 211 \times 331 \times 991 \times 4951 \times 9241 \times 12541 \times 36191 \times 36195310\ 890786301$
34	$2^3 11^2 137 \times 239 \times 1871 \times 65587 \times 14351744\ 671810121 \times 26\ 810763654\ 435499771$
35	$2 \times 11 \times 71^2 491 \times 631 \times 1051 \times 1451 \times 44195201 \times 845411351 \times 997100651 \times 24\ 532776101$
36	$2^4 7 \times 11^2 37^2 127 \times 211 \times 541 \times 751 \times 3529 \times 26821 \times 29264761 \times 8384041 \times 326696\ 137901281$
37	$2 \times 11 \times 1481 \times 260999 \times 263293 \times 37368\ 314102771 \times 586124394\ 870185917\ 698683761$
38	$2^3 11^2 191^2 571 \times 1901 \times 2851 \times 4561 \times 130873 \times 217361 \times 262543 \times 12\ 152595701 \times 34\ 688090621$
39	$2 \times 7 \times 11 \times 53 \times 79^2 211 \times 1171 \times 8971 \times 16381 \times 118717 \times 20879821 \times 29\ 167216261 \times 375528\ 668842861$
40	$2^5 3^2 11^2 151 \times 541 \times 701 \times 1051 \times 1451 \times 5051 \times 12401 \times 58321 \times 119701 \times 1020401 \times 1183399070\ 292914801$
41	$2 \times 11 \times 739 \times 2543 \times 585071 \times 6392311 \times 332559\ 350565562\ 261451674\ 865777937\ 113437021$
42	$2^3 7^3 11^2 29 \times 43^2 71^2 211^2 421 \times 491 \times 631 \times 751 \times 1051 \times 1471 \times 2311 \times 9661 \times 11551 \times 15541 \times 25621 \times 26481841$
43	$2 \times 11 \times 947 \times 21918821 \times 96286891 \times 51352751 \times 4644189029 \times 5021326389\ 387510837\ 012485251$
44	$2^4 11^4 23^2 331 \times 541 \times 991 \times 12541 \times 36191 \times 133981 \times 1050281 \times 1389301 \times 2097349 \times 94797341 \times 4343192261$
45	$2 \times 7 \times 11 \times 37 \times 211 \times 1051 \times 1451 \times 2251 \times 17851 \times 29264761 \times 42708451 \times 585567\ 748406484\ 532790010\ 161442451$
46	$2^3 11^2 1381 \times 4196903 \times 2095853 \times 53941441 \times 8340178480\ 264645291 \times 326168\ 733802533\ 644255851$
47	$2 \times 11 \times 659 \times 485\ 867591981 \times 2027035271 \times 16\ 131489931 \times 106\ 781081677 \times 255\ 878618711 \times 8773\ 216628261$
48	$2^6 3^4 5^4 7 \times 11^2 37 \times 113 \times 211 \times 401 \times 541 \times 751 \times 26821 \times 58321 \times 74209 \times 12132401 \times 2045761 \times 195244921 \times 7963\ 214925121$
49	$2 \times 11 \times 71^2 197 \times 491 \times 631 \times 8429 \times 40109441 \times 2387477 \times\ 429733921 \times 985757501 \times 363\ 798837431 \times 67149\ 006102851$
50	$2^3 11^2 \times 151 \times 1051 \times 1451 \times 5051 \times 10501 \times 1061251 \times 107415001 \times 113\ 734885502\ 691177251 \times 11802\ 981105192\ 534814001$

Field Size: 32

C1= -11

A2= 0

A6= 1

n	N _n	X	Tier
1	44	1.0	1
2	968	1. 4142	1
3	33044	1.0	1
4	1047376	2. 5755	2
5	33558844	2. 7277	2
6	1073731736	5. 6489	3
7	34 359708196	4. 3709	3
8	1099 512282528	5. 0581	3
9	35184 365852108	3. 5750	2
10	1125899 954494568	9. 3426	5
11	36028796 694367796	6. 4321	4
12	1152921506 652542704	9. 9806	5
13	36 893488135 303527772	1. 7946	1
14	1180 591620785 220370232	11. 827	5
15	37778 931862598 960389444	10. 784	5
16	1208925 819616399 499089728	9. 1135	5
17	38685626 227660122 464622572	2. 8712	2
18	1237940039 285411746 904576264	9. 9782	5
19	39 614081257 132078960 743204692	7. 7247	4
20	1267 650600228 229382588 845215376	14. 760	5
21	40564 819207303 343930633 861117308	11. 842	5
22	1298074 214633706 873827542 593987032	14. 347	5
23	41538374 868278621 295952207 531809892	2. 5785	2
24	1329227995 784915871 024779062 027980000	12. 338	5
25	42 535295865 117307945 024470329 009464844	4. 3369	3
26	1361 129467683 753853780 498237270 725689768	7. 5781	4
27	43556 142965880 123323727 667247484 919753844	14. 628	5
28	1393796 574908163 946343745 505740721 227555376	15. 036	5
29	44601490 397061246 283082739 334715543 206214044	7. 8800	4

30	1427247692 705959881 058233219 127481757 976150136	15. 704	5
31	45 671926166 590716193 865369586 664589280 504350596	7. 3039	4
32	1461 501637330 902918203 684116519 499253686 122585728	17. 077	5
33	46768 052394588 893382517 915531028 694217337 544228908	6. 5414	4
34	1496577 676626844 588240573 281894586 879166884 111248968	7. 6805	4
35	47890485 652059026 823698344 425031473 847827170 017262996	14. 586	5
36	1532495540 865888858 358347028 635702135 016327131 252593104	11. 385	5
37	49 039857307 708443467 467104858 019873430 914453491 747555772	4. 7114	3
38	1569 275433846 670190958 947355873 074254474 603227425 205771032	15. 294	5
39	50216 813883093 446110686 315385223 877828116 011875691 194375844	8. 123	5
40	1606938 044258990 275541962 092343697 546215565 682541130 425732128	10. 286	5
41	51422017 416287688 817342786 954903317 412105996 838468331 850180172	6. 6696	4
42	1645504557 321206042 154969182 557422131 339197748 181704488 128927464	19. 466	5
43	52 656145834 278593348 959013841 834872617 321810959 047777998 714829492	8. 9744	5
44	1684 996666696 914987166 688442938 728404022 297850320 740345988 852702576	17. 732	5
45	53919 893334301 279589334 030174039 255984502 572857768 901621198 673913308	11. 465	5
46	1725436 586697640 946858688 965569256 374521826 876537848 769432289 002402232	9. 0837	5
47	55213970 774324510 299478046 898216203 665718020 720509310 791154229 870141892	3. 9589	2
48	1766847064 778384329 583297500 742918514 955193670 229162488 092678750 128920000	15. 927	5
49	56 539106072 908298546 665520023 773392514 599184426 950148843 014271249 612609644	11. 594	5
50	1809 251394333 065553493 296640760 748560145 940100657 086656143 098827670 144498568	10. 736	5

n	Prime Factorization
1	$2^{21}1$
2	$2^{31}1^2$
3	$2^{21}1 \times 751$
4	$2^4 1^2 541$
5	$2^{21}1 \times 151 \times 5051$
6	$2^{37} \times 11^2 211 \times 751$
7	$2^{21}1 \times 29 \times 1051 \times 25621$
8	$2^{53} 1^2 541 \times 58321$
9	$2^{21}1 \times 127 \times 751 \times 8384041$
10	$2^{31} 1^2 151 \times 1051 \times 1451 \times 5051$
11	$2^{21} 1^2 23^2 133981 \times 1050281$
12	$2^4 7 \times 11^2 37 \times 211 \times 541 \times 751 \times 26821$
13	$2^{21}1 \times 2003 \times 418616 258967271$
14	$2^{31} 1^2 29 \times 71^2 491 \times 631 \times 1051 \times 25621$
15	$2^{21}1 \times 151^2 751 \times 5051 \times 35851 \times 276901$

16	$2^6 3^2 11^2 113 \times 401 \times 541 \times 58321 \times 12132401$
17	$2^2 11 \times 137 \times 239 \times 1871 \times 14351744 \ 671810121$
18	$2^3 7 \times 11^2 37 \times 127 \times 211 \times 751 \times 8384041 \times 29264761$
19	$2^2 11 \times 571 \times 4561 \times 130873 \times 217361 \times 12 \ 152595701$
20	$2^4 11^2 151 \times 541 \times 701 \times 1051 \times 1451 \times 5051 \times 12401 \times 119701$
21	$2^2 11 \times 29 \times 43 \times 211 \times 421 \times 751 \times 1051 \times 15541 \times 25621 \times 26481841$
22	$2^3 11^4 23^2 331 \times 991 \times 12541 \times 36191 \times 133981 \times 1050281$
23	$2^2 11 \times 1381 \times 2095853 \times 326168 \ 733802533 \ 644255851$
24	$2^5 3^4 5^4 7 \times 11^2 37 \times 211 \times 541 \times 751 \times 26821 \times 58321 \times 195244921$
25	$2^2 11 \times 151 \times 5051 \times 10501 \times 1061251 \times 113 \ 734885502 \ 691177251$
26	$2^3 11^2 53 \times 79 \times 1171 \times 2003 \times 16381 \times 20879821 \times 418616 \ 258967271$
27	$2^2 11 \times 127 \times 163 \times 541 \times 751 \times 1621 \times 408241 \times 8384041 \times 618571 \times 34294591$
28	$2^4 11^2 29^2 71^2 281^2 491 \times 541 \times 631 \times 1051 \times 13721 \times 25621 \times 34727701$
29	$2^2 11 \times 8353 \times 16067 \times 7884521 \times 94 \ 336791781 \times 10154604 \ 257356451$
30	$2^3 7 \times 11^2 151^2 211 \times 751 \times 1051 \times 1451 \times 5051 \times 17851 \times 35851 \times 276901 \times 42708451$
31	$2^2 11 \times 373 \times 552731 \times 1439393 \times 1984 \ 995816721 \times 1762118110 \ 384258181$
32	$2^7 3^2 11^2 31^2 113 \times 401 \times 541 \times 17921 \times 32993 \times 58321 \times 1766881 \times 602081 \times 12132401$
33	$2^2 11^2 23^2 67 \times 331 \times 751 \times 60589 \times 133981 \times 1050281 \times 1286 \ 361427005 \ 323208541$
34	$2^3 11^2 137 \times 239 \times 1871 \times 65587 \times 14351744 \ 671810121 \times 26 \ 810763654 \ 435499771$
35	$2^2 11 \times 29 \times 151 \times 701 \times 1051 \times 5051 \times 25621 \times 232051 \times 62211101 \times 9067905701 \times 19 \ 914486551$
36	$2^4 7 \times 11^2 37^2 127 \times 211 \times 541 \times 751 \times 3529 \times 26821 \times 29264761 \times 8384041 \times 326696 \ 137901281$
37	$2^2 11 \times 149 \times 1481 \times 405521 \times 390721 \times 230603167 \times \ 138 \ 232392271 \ 695914331 \ 697846591$
38	$2^3 11^2 191^2 571 \times 1901 \times 2851 \times 4561 \times 130873 \times \ 217361 \times 262543 \times 12 \ 152595701 \times 34 \ 688090621$
39	$2^2 11 \times 751 \times 2003 \times 6973591 \times 68616367 \times 418616 \ 258967271 \times \ 3787 \ 697672150 \ 161394041$
40	$2^5 3^2 11^2 151 \times 541 \times 701 \times 1051 \times 1451 \times 5051 \times 12401 \times \ 58321 \times 119701 \times 1020401 \times 1183399070 \ 292914801$
41	$2^2 11 \times 821 \times 9431 \times 11020391 \times 130888811 \times 549 \ 756390943 \times 190338095 \ 679204813 \ 176799841$
42	$2^3 7^3 11^2 29 \times 43^2 71^2 211^2 421 \times 491 \times 631 \times 751 \times 1051 \times 1471 \times 2311 \times 9661 \times 11551 \times 15541 \times 25621 \times 26481841$
43	$2^2 11 \times 431^2 1033 \times 22877 \times 66221 \times 93053 \times 1405567661 \times 2506680271 \times 12556 \ 414505815 \ 893604081$
44	$2^4 11^4 23^2 331 \times 541 \times 991 \times 12541 \times 36191 \times 133981 \times 1050281 \times 1389301 \times 2097349 \times 94797341 \times 4343192261$
45	$2^2 11 \times 127 \times 151^2 751 \times 5051 \times 35851 \times 86851 \times 276901 \times 8384041 \times 5922 \ 719496901 \times 2605831005 \ 390659551$
46	$2^3 11^2 1381 \times 4196903 \times 2095853 \times 53941441 \times 8340178480 \ 264645291 \times 326168 \ 733802533 \ 644255851$
47	$2^2 11 \times 4965269 \times 106040461 \times 7086097 \times 3268381 \times 102906 \ 343106771 \ 031589435 \ 140076933 \ 746208111$
48	$2^6 3^4 5^4 7 \times 11^2 37 \times 113 \times 211 \times 401 \times 541 \times 751 \times 26821 \times 58321 \times 74209 \times 12132401 \times 2045761 \times 195244921 \times 7963 \ 214925121$
49	$2^2 11 \times 29 \times 491 \times 1051 \times 7351 \times 25621 \times 142591 \times 245981 \times \ 2693237 \times 1801927 \times 29265 \ 861420041 \times 91 \ 517637756 \ 624669311$
50	$2^3 11^2 \times 151 \times 1051 \times 1451 \times 5051 \times 10501 \times 1061251 \times 107415001 \times 113 \ 734885502 \ 691177251 \times 11802 \ 981105192 \ 534814001$