DAA EXPERIMENT NO. 1-A

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AIM: To implement the various functions e.g. linear, non-linear, quadratic, exponential etc.

Problem Definition & Assumptions – For this experiment, you have to implement at least 10 functions from the following list.

$$(\frac{3}{2})^n$$
 n^3 $\lg^2 n$ $\lg(n!)$ 2^{2^n} $n^{1/\lg n}$ $\ln \ln n$ $\lg n$ $n \cdot 2^n$ $n^{\lg \lg n}$ $\ln n$ $2^{\lg n}$ $2^{\lg n}$ $(\lg n)^{\lg n}$ e^n $(\lg n)!$ $(\sqrt{2})^{\lg n}$ $\sqrt{\lg n}$ $\log(\lg n)$ $2^{\sqrt{2 \lg n}}$ n 2^n $n \lg n$ $2^{2^{n+1}}$

Note – lg denotes for log_2 and le denotes log_e

The input (i.e. n) to all the above functions varies from 0 to 100 with increment of 1. Then add the function n! in the list and execute the same for n from 0 to 20.

ALGORITHM:

STEP 1: Include the required libraries: stdio.h, stdlib.h, math.h

STEP 2: Define the following functions:

- int f1_n(int n) returns n
- int f2_n_cube(int n) returns n^3
- double f3_3_by_2_pow_n(int n) returns 1.5^n
- double f4_ln_n(int n) returns log(n)
- double $f5_{\ln_n n(int n)}$ returns $\log(\log(n))$
- double f6_log2_n(int n) returns log2(n)
- double $f7_{\log 2_{n}(int n)}$ returns $\log 2(\log 2(n))$
- double $f8_n_{\log 2_n(int n)}$ returns $n * \log 2(n)$
- long f9_2_pow_n(int n) returns 2^n
- double f10_2_pow_log_n(int n) returns 2^log2(n)
- long f11_n_fact(long n) returns n! (factorial of n)

STEP 3: In the main function, Print the header line of the output table, which shows the names of the functions.

STEP 4: Use a for loop to iterate over the values of n from 0 to 100.

STEP 5: Within the for loop, print the value of n, followed by the values returned by each function, one function per tab-separated column.

STEP 6: For the function f11_n_fact, only print its value where n between 0 to 20.

STEP 7: End the line

CODE:

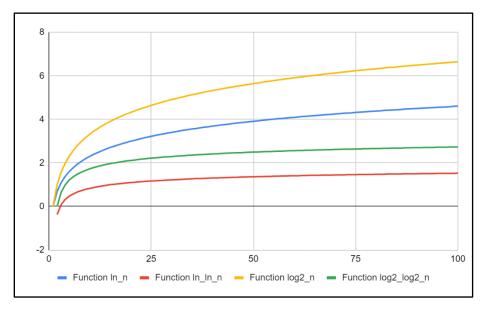
```
#include <stdio.h>
  #include <stdlib.h>
  #include <math.h>
  int f1_n(int n){
     return n;
   }
  int f2_n_cube(int n){
      return n*n*n;
  double f3_3_by_2_pow_n(int n){
      return pow(1.5, n);
  double f4_ln_n(int n){
     return log(n);
  double f5_ln_ln_n(int n){
      return log(log(n));
  double f6 \log 2 n(int n)
      return log 2(n);
  double f7_{\log 2}\log 2_n(int n)
      return log2(log2(n));
  double f8_n_{\log 2_n(int n)}
     return n * log2(n);
  long f9_2_pow_n(int n){
      return pow(2, n);
   }
  double f10_2_pow_log_n(int n){
      return pow(2, log2(n));
  long f11_n_fact(long n){
      return ((n == 1 \parallel n == 0) ? 1 : n * f11_n_fact(n - 1));
   }
 int main(){
      printf("n\tFunc1\tFunc2\tW-20s\tFunc4\tFunc5\tFunc6\tFunc7\tFunc8\tW-20s\tFunc4\tFunc5\tFunc6\tFunc6\tFunc7\tFunc8\tW-20s\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFunc6\tFun
21s\tFunc10\tFunc11\n\n","Func3","Func9");
      for(int i=0; i \le 100; i++) {
               printf("%d\t", i);
               printf("%d\t", f1_n(i));
               printf("%d\t", f2_n_cube(i));
               printf("%-18.2f\t", f3_3_by_2_pow_n(i));
```

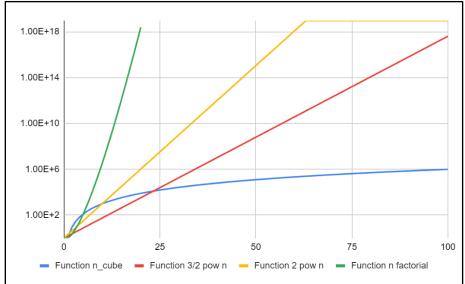
```
printf("%.2f\t", f4_ln_n(i));
printf("%.2f\t", f5_ln_ln_n(i));
printf("%.2f\t", f6_log2_n(i));
printf("%.2f\t", f7_log2_log2_n(i));
printf("%.2f\t", f8_n_log2_n(i));
printf("%-21ld\t", f9_2_pow_n(i));
printf("%.2f\t", f10_2_pow_log_n(i));
if(i<=20)
printf("%ld", f11_n_fact(i));
printf("\n");
}
return 0;
}</pre>
```

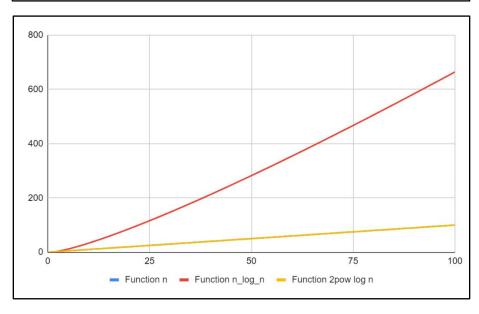
OUTPUT:

73	Func1	Func2 Func3	Func4	Func5	Func6	Func7	Func8	Func9	Func10	Func11
0 1	0	0 1.00 1 1.50	-inf 0.00	-nan -inf	-inf	-nan	0.00	1 2		1
2	2	8 2.25	0.69	-0.37	1.00	0.00	2.00	4	2.00	2
3	3 4	27 3.38 64 5.06	1.10 1.39	0.09	1.58 2.00	1.00	4.75 8.00	8 16	3.00 4.00	6 24
5	5	125 7.59	1.61	0.48	2.32	1.22	11.61	32	5.00	120
6 7	6 7	216 11.39 343 17.09	1.79 1.95	0.58	2.58 2.81	1.37	15.51 19.65	64 128	6.00 7.00	720 5040
8	8	512 25.63	2.08	0.73	3.00	1.58	24.00	256	8.00	40320
9 10	9	729 38.44 1000 57.67	2.20 2.30	0.79	3.17	1.66	28.53 33.22	512 1024	9.00 10.00	362880 3628800
11	11	1331 86.50	2.40	0.87	3.46	1.79	38.05	2048	11.00	39916800
12	12 13	1728 129.75 2197 194.62	2.48 2.56	0.91	3.58 3.70	1.84	43.02 48.11	4096 8192	12.00 13.00	479001600 6227020800
14	14	2744 291.93	2.64	0.97	3.81	1.93	53.30	16384	14.00	87178291200
15 16	15 16	3375 437.89 4096 656.84	2.71	1.00	3.91 4.00	1.97	58.60 64.00	32768 65536	15.00 16.00	1307674368000
17	17	4913 985.26	2.77 2.83	1.02	4.09	2.03	69.49	131072	17.00	20922789888000 355687428096000
18 19	18	5832 1477.89	2.89	1.06	4.17	2.06	75.06	262144	18.00	6402373705728000
20	20	6859 2216.84 8000 3325.26	2.94 3.00	1.08	4.25	2.09	80.71 86.44	524288 1048576	19.00 20.00	121645100408832000 2432902008176640000
21	21	9261 4987.89	3.04	1.11	4.39	2.13	92.24	2097152	21.00	
22	22	10648 7481.83 12167 11222.74	3.09 3.14	1.13	4.46	2.16	98.11 104.04	4194304 8388608	22.00 23.00	
24	24	13824 16834.11	3.18	1.16	4.58	2.20	110.04	16777216	24.00	
25 26	25 26	15625 25251.17 17576 37876.75	3.22 3.26	1.17	4.64	2.22	116.10 122.21	33554432 67108864	25.00 26.00	
27	27	19683 56815.13	3.30	1.19	4.75	2.25	128.38	134217728	27.00	
28 29	28 29	21952 85222.69 24389 127834.04	3.33 3.37	1.20	4.81	2.27	134.61 140.88	268435456 536870912	28.00 29.00	
30	30	27000 191751.06	3.40	1.22	4.91	2.29	147.21	1073741824	30.00	
31 32	31 32	29791 287626.59 32768 431439.88	3.43 3.47	1.23	4.95 5.00	2.31	153.58 160.00	2147483648 4294967296	31.00 32.00	
33	33	35937 647159.82	3.50	1.25	5.04	2.33	166.47	8589934592	33.00	
34 35	34 35	39304 970739.74 42875 1456109.61	3.53 3.56	1.26	5.09 5.13	2.35	172.97 179.52	17179869184 34359738368	34.00 35.00	
36	35 36	42875 1456109.61 46656 2184164.41	3.56	1.27	5.13	2.36	179.52 186.12	34359738368 68719476736	35.00 36.00	
37	37	50653 3276246.61	3.61	1.28	5.21	2.38	192.75	137438953472	37.00	
38 39	38 39	54872 4914369.92 59319 7371554.88	3.64 3.66	1.29	5.25 5.29	2.39	199.42 206.13	274877906944 549755813888	38.00 39.00	
40	40	64000 11057332.32	3.69	1.31	5.32	2.41	212.88	1099511627776	40.00	
41	41 42	68921 16585998.48 74088 24878997.72	3.71 3.74	1.31	5.36 5.39	2.42	219.66 226.48	2199023255552 4398046511104	41.00 42.00	
43	43	79507 37318496.58	3.76	1.32	5.43	2.44	233.33	8796093022208	43.00	
44	44 45	85184 55977744.87 91125 83966617.31	3.78 3.81	1.33	5.46 5.49	2.45	240.21 247.13	17592186044416 35184372088832	44.00 45.00	
46	46	97336 125949925.9	7 3.83	1.34	5.52	2.47	254.08	70368744177664	46.00	
47	47	102822 188024888 0	5 2 85	1 25	5 55	2 47	261 07	14072748825522	8 47 00	
51	51	132651 956432	250.32	3.93	1.37	5.6	7 2.	50 289.29	22517998136852	48 51.00
52	52		8375.48	3.95	1.37	5.7			45035996273704	
53	53	148877 215197	00.00							
			2563.22	3.97	1.38	5.7			90071992547409	
54	54	157464 322795	8844.83	3.99	1.38	5.7	5 2.	310.76	18014398509481	984 54.00
		157464 3227950 166375 4841930					5 2. 8 2.	52 310.76 53 317.97		984 54.00 968 55.00
54 55 56 57	54 55	157464 322795 166275 484193 175616 726290 185193 108943	8844.83 8267.25	3.99 4.01	1.38	5.7 5.7	5 2. 8 2. 1 2. 3 2.	52 310.76 53 317.97 54 325.21 54 332.47	18014398509481 36028797018963	984 54.00 968 55.00 936 56.00
54 55 56 57 58	54 55 56 57 58	157464 322795 166375 484193 175616 726290' 185193 108943 195112 163415	8844.83 8267.25 7400.88 61101.31 41651.97	3.99 4.01 4.03 4.04 4.06	1.38 1.39 1.39 1.40	5.7 5.8 5.8 5.8	5 2. 8 2. 1 2. 3 2. 6 2.	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76	18014398509481 36028797018963 72057594037927 14411518807585 28823037615171	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00
54 55 56 57 58 59	54 55 56 57 58 59	157464 3227951 166375 4841931 175616 7262901 185193 1089431 195112 163415 205379 2451231	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96	3.99 4.01 4.03 4.04 4.06 4.08	1.38 1.39 1.39 1.40 1.40	5.7 5.8 5.8 5.8 5.8	5 2.1 8 2.1 1 2.1 3 2.1 6 2.1	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 347.08	18014398509481 36028797018963 72057594037927 14411518807585 28823037615171 57646075230342	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00
54 55 56 57 58	54 55 56 57 58	157464 322795 166375 484193 175616 726290' 185193 108943' 195112 163415- 205379 245123; 216000 367684	8844.83 8267.25 7400.88 61101.31 41651.97	3.99 4.01 4.03 4.04 4.06	1.38 1.39 1.39 1.40	5.7 5.8 5.8 5.8	5 2.5 8 2.5 1 2.5 3 2.5 6 2.5 8 2.5	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 347.08 56 354.41	18014398509481 36028797018963 72057594037927 14411518807585 28823037615171	984 54.00 968 55.00 926 56.00 57.00 1744 58.00 3488 59.00 46976 60.00
54 55 56 57 58 59 60 61 62	54 55 56 57 58 59 60 61 62	157464 322795 166375 484193 175616 726290' 185193 108943 195112 163415 205379 245123 216000 367684 226981 551527 238328 827290	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10	3.99 4.01 4.03 4.04 4.06 4.08 4.09 4.11 4.13	1.38 1.39 1.40 1.40 1.41 1.41 1.41	5.7 5.8 5.8 5.8 5.9 5.9	5 2.5 8 2.5 1 2.5 3 2.5 6 2.5 8 2.5 1 2.5 3 2.5 5 2.5	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 347.08 56 354.41 57 369.16	18014398509481 36028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00
54 55 56 57 58 59 60 61 62 63	54 55 56 57 58 59 60 61 62 63	157464 322795i 166375 484193i 175616 726290' 185193 108943i 195112 163415i 205379 245123i 216000 367684i 226981 5515270 238328 827290i	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 581919.65	3.99 4.01 4.03 4.04 4.06 4.08 4.09 4.11 4.13 4.14	1.38 1.39 1.40 1.40 1.41 1.41 1.41 1.42	5.7 5.8 5.8 5.8 5.9 5.9 5.9	5 2.1 8 2.1 1 2.1 3 2.1 6 2.1 8 2.1 1 2.1 3 2.1 5 2.1	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 347.08 354.41 57 361.77 57 369.16 58 376.57	18014398509481 36028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 63.00
54 55 56 57 58 59 60 61 62	54 55 56 57 58 59 60 61 62	157464 322795 166375 484193 175616 726290' 185193 108943' 195112 163415' 205379 245123' 216000 367684' 226981 551527' 238328 827290' 250047 124093' 262144 186140'	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10	3.99 4.01 4.03 4.04 4.06 4.08 4.09 4.11 4.13	1.38 1.39 1.40 1.40 1.41 1.41 1.41	5.7 5.8 5.8 5.8 5.9 5.9 5.9	5 2.1 8 2.1 1 2.1 3 2.1 6 2.1 8 2.1 1 2.1 3 2.1 5 2.1 8 2.1	52 310.76 53 317.97 54 325.21 54 322.47 55 339.76 56 347.08 56 354.41 57 361.77 369.16 58 376.57 384.00	18014398509481 36028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273	984 54.00 968 55.00 926 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 64.00
54 55 56 57 58 59 60 61 62 63 64	54 55 56 57 58 59 60 61 62 63 64	157464 222795 166375 484193 175616 726290' 185193 108943: 195112 163415: 205379 245123: 216000 367684: 226981 551527! 238328 827290: 250047 124093: 262144 186140: 274625 279210:	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 581919.65	3.99 4.01 4.03 4.04 4.06 4.08 4.09 4.11 4.13 4.14	1.38 1.39 1.40 1.40 1.41 1.41 1.42 1.42	5.7 5.8 5.8 5.8 5.9 5.9 5.9	5 2.1 8 2.1 1 2.1 3 2.1 6 2.1 8 2.1 1 2.1 3 2.1 5 2.1 5 2.1 8 2.2	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 347.08 56 347.08 57 361.77 57 369.16 376.57 58 376.57 58 384.00	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 63.00 775808 65.00
54 55 56 57 58 59 60 61 62 63 64 65 66	54 55 56 57 58 59 60 61 62 63 64 65 66 67	157464 322795i 166375 484193i 175616 726290' 185193 109943i 195112 163415i 205379 245123i 216000 367684i 226981 551527i 238328 827290i 250047 124093i 262144 186140i 274625 279210i 287496 418815i 300763 628223i	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 581919.65 372879.47 559319.21	3.99 4.01 4.03 4.04 4.06 4.08 4.09 4.11 4.13 4.14 4.16 4.17 4.19 4.20	1.38 1.39 1.40 1.40 1.41 1.41 1.42 1.42 1.43 1.43 1.43	5.7 5.8 5.8 5.8 5.9 5.9 6.0 6.0	5 2.: 8 2.: 1 2.: 3 2.: 8 2.: 1 2.: 3 2.: 3 2.: 5 2.: 8 2.: 9 2.:	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 347.08 56 354.41 57 361.77 369.16 58 376.57 58 384.00 59 391.45 50 398.93 50 406.43	18014398509481 36028797018963 72057594037927 14411518807585 28823037615171 57646075230342 1152921504606 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 63.00 775808 64.00 775808 65.00 775808 66.00 775808 67.00
54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	157464 322795 166375 484193 175616 726290' 185193 108943' 195112 163415' 205379 245123' 216000 367684' 226981 551527' 238328 827290' 250047 124093' 262144 186140' 274625 279210' 287496 418815' 300763 628223' 314432 942335'	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 581919.65 372879.47 559319.21 838978.82 758468.22 637702.33	3.99 4.01 4.03 4.04 4.08 4.09 4.11 4.13 4.14 4.16 4.17 4.19 4.20 4.22	1.38 1.39 1.40 1.41 1.41 1.41 1.42 1.42 1.43 1.43 1.43 1.44	5.7 5.8 5.8 5.8 5.9 5.9 6.0 6.0 6.0	5 2.18 2.11 2.13 2.13 2.13 2.13 2.13 2.13 2.13	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 347.08 56 354.41 57 361.77 58 376.57 58 376.57 58 384.00 59 391.45 50 406.43 51 413.95	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 63.00 775808 64.00 775808 65.00 775808 65.00 775808 67.00 775808 68.00
54 55 56 57 58 59 60 61 62 64 65 66 67 68	54 55 56 57 58 59 60 61 62 63 64 65 66 67	157464 322795 166375 484193 175616 726290' 185193 108943 195112 163415 205379 245123 216000 367684 226981 551527 238328 827290 250047 124093 262144 186140 274625 279210 287496 418815 300763 628223' 314432 942325 328509 141350	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 02075.40 54613.10 54613.10 54613.10 54919.65 272879.47 559319.21 838978.82 758468.22 637702.33 3456553.50	3.99 4.01 4.03 4.06 4.08 4.09 4.11 4.14 4.16 4.17 4.19 4.22 4.23	1.38 1.39 1.40 1.41 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.44	5.7 5.8 5.8 5.8 5.9 5.9 6.0 6.0 6.0	5 2.18 2.11 2.13 2.13 2.13 2.13 2.13 2.13 2.13	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 347.08 56 354.41 57 361.77 58 376.57 384.00 59 391.45 50 398.93 406.43 406.43 406.43 406.43 406.43	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 62.00 775808 65.00 775808 66.00 775808 66.00 775808 69.00
54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 71	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	157464 322795 166375 484193 175616 726290' 185193 108943' 195112 163415' 205379 245123' 216000 367684' 226981 551527' 238328 827290' 250047 124093' 262144 186140' 274625 279210' 287496 418815' 300763 628223' 314432 94235' 328509 141350' 343000 212025' 357911 318038'	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 551919.65 372879.47 559319.21 838978.82 758468.22 637702.33 2456553.50 5184880.25 2777245.38	3.99 4.01 4.03 4.06 4.08 4.11 4.13 4.14 4.16 4.17 4.20 4.22 4.23 4.25	1.38 1.39 1.40 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.44 1.44 1.45	5.7 5.8 5.8 5.8 5.9 5.9 6.0 6.0 6.0 6.1 6.1	5 2.18 2.11 2.11 2.11 2.11 2.11 2.11 2.11	52 310.76 53 317.97 54 325.21 54 325.21 55 339.76 56 347.08 56 354.41 57 361.77 369.16 58 376.57 58 384.00 391.45 59 391.45 50 406.43 61 413.95 61 421.49 62 429.05 62 436.63	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 968 55.00 926 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 62.00 775808 64.00 775808 65.00 775808 67.00 775808 69.00 775808 69.00 775808 69.00 775808 71.00
54 55 56 57 59 60 61 62 64 65 66 67 68 70 71 72	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72	157464 3227951 166375 4841931 175616 726290' 185193 108943: 195112 163415: 205379 245123: 216000 367684; 226981 551527; 238328 827290; 250047 124093; 262144 186140; 274625 279210; 287496 4188151; 300763 628223; 314432 942325; 328509 141350; 343000 212025; 357911 318038; 373248 477057;	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 581919.65 372879.47 559319.21 838978.82 758468.22 637702.33 945653.50 5184830.25 2777245.38 4165868.07	3.99 4.01 4.03 4.06 4.08 4.09 4.11 4.14 4.16 4.17 4.20 4.22 4.23 4.25 4.26	1.38 1.39 1.39 1.40 1.41 1.41 1.42 1.43 1.43 1.44 1.44 1.44 1.45 1.45	5.7 5.8 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1	5 2.18 2.11 2.11 2.11 2.11 2.11 2.11 2.11	52 310.76 53 317.97 54 325.21 54 322.47 55 339.76 347.08 56 354.41 57 361.77 369.16 58 376.57 58 384.00 391.45 50 398.93 406.43 51 413.95 51 421.49 429.65 429.65 436.63 444.23	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 63.00 775808 64.00 775808 65.00 775808 65.00 775808 69.00 775808 69.00 775808 69.00 775808 72.00
54 55 56 57 59 60 61 62 64 65 66 67 77 72	54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	157464 222755 166375 484193 175616 726290' 185193 108943 195112 163415 205379 245123; 216000 367684 226981 551527 238328 827290; 250047 124093; 262144 186140; 274625 279210; 287496 418815; 300763 628223; 314432 94235; 328509 141350; 343000 212025; 357914 477057; 389017 715586;	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 551919.65 372879.47 559319.21 838978.82 758468.22 637702.33 2456553.50 5184880.25 2777245.38	3.99 4.01 4.03 4.06 4.08 4.11 4.13 4.14 4.16 4.17 4.20 4.20 4.22 4.23 4.25 4.26	1.38 1.39 1.40 1.41 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.44 1.44 1.45 1.45 1.45	5.7 5.8 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1	5 2.1 8 2.1 13 2.1 14 2.1 15 2.1 15 2.1 16 2.1 17 2	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 347.08 56 354.41 57 369.16 58 376.57 59 391.45 50 398.93 50 406.43 51 413.95 51 421.49 52 429.05 53 444.23 53 444.23	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 63.00 775808 65.00 775808 66.00 775808 69.00 775808 70.00 775808 70.00 775808 70.00 775808 70.00
54 55 55 57 59 66 66 66 67 77 77 77 77	54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73	157464 222755 166375 484193 175616 726290' 185193 108943 195112 163415 205379 245123; 216000 367684 226981 551527 238328 827290; 250047 124093; 262144 186140; 274625 279210; 287496 418815; 300763 628223; 314432 94235; 328509 141350; 343000 212025; 357914 477057; 389017 715586;	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 581919.65 372879.47 559319.21 388978.82 758468.22 637702.33 3456553.50 5184830.25 2777245.38 4165568.07 1248802.10 91873203.15	3.99 4.01 4.03 4.06 4.08 4.09 4.11 4.14 4.16 4.17 4.20 4.22 4.23 4.25 4.26	1.38 1.39 1.39 1.40 1.41 1.41 1.42 1.43 1.43 1.44 1.44 1.44 1.45 1.45	5.7 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1 6.1	5 2.1 8 2.1 13 2.1 13 2.1 14 2.1 15 2.1 16 2.1 17 2	52 310.76 53 317.97 54 325.21 54 322.47 55 329.76 56 354.41 57 361.77 369.16 58 376.57 58 384.00 391.45 50 406.43 61 421.49 62 429.05 63 444.23 441.28 451.86 63 459.50	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 988 55.00 988 55.00 988 55.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 8775808 62.00 775808 64.00 775808 65.00 775808 67.00 775808 69.00 775808 70.00 775808 70.00 775808 70.00 775808 71.00 775808 72.00 775808 72.00 775808 72.00 775808 74.00
54 55 57 58 59 60 61 62 64 66 67 77 77 77 77	54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76	157464 3227951 166375 4841931 175616 726290' 185193 1089431 195112 163415: 205379 245123: 216000 3676844 226981 5515271 238328 8272901 250047 124093: 262144 186140: 274625 279210: 287496 4188151 300763 628223' 314432 9423351 328509 141350: 343000 2120255 357911 318038: 373248 477057: 389017 715586: 405224 107337; 421875 1610066 438976 241510:	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 581919.65 372879.47 559319.21 838978.82 758468.22 637702.32 2456553.50 5184830.25 2777245.38 4165668.07 124802.10 91873203.15 87809804.73 31714707.09	3.99 4.01 4.03 4.04 4.06 4.08 4.11 4.13 4.14 4.17 4.19 4.20 4.23 4.25 4.26 4.29 4.30 4.30	1.38 1.39 1.40 1.41 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.45 1.45 1.45 1.45 1.45	5.7 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1 6.2 6.2	5	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 347.08 56 354.41 57 369.16 57 369.16 58 376.57 58 384.00 391.45 398.93 406.43 56 413.95 56 421.49 52 429.05 52 436.63 53 441.23 53 451.86 54 459.16 56 459.16 56 459.16 57 46 66 57 46 66 57 47 4.84	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 63.00 775808 65.00 775808 65.00 775808 67.00 775808 69.00 775808 70.00 775808 70.00 775808 71.00 775808 72.00 775808 72.00 775808 73.00 775808 73.00 775808 74.00 775808 73.00 775808 74.00 775808 75.00 775808 75.00
54 55 55 57 58 66 62 64 65 66 67 77 77 77 77 77	54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77	157464 222755 166375 484193 175616 726290 185193 108943 195112 163415 205379 245123 216000 367684 226981 551527 238328 827290 250047 124093 262144 186140 274625 279210 287496 418815 300763 628223 314432 942335 328509 141350 343000 212025 357911 318038 373248 477057 389017 715586 405224 107337 421875 1610066 438976 241510 456533 362265	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 581919.65 372879.47 559319.21 888978.82 758468.22 637702.33 3456553.50 5184830.25 2777245.38 4165868.07 1248802.10 91873203.15 87809804.72 31714707.09 47572060.63	3.99 4.01 4.04 4.06 4.09 4.11 4.13 4.16 4.17 4.22 4.22 4.23 4.25 4.26 4.32 4.33 4.34	1.38 1.39 1.40 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.44 1.45 1.45 1.45 1.46 1.46 1.46 1.46	5.7 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1 6.2 6.2 6.2	5	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 56 354.41 57 361.77 369.16 58 376.57 384.00 391.45 58 391.45 59 391.45 50 406.43 61 413.95 61 421.49 62 429.05 63 454.63 63 454.84 65 459.50 64 467.16 64 474.84 65 482.54	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 988 55.00 988 55.00 988 55.00 989 56.00 1744 58.00 3488 59.00 46976 60.00 98952 61.00 89952 61.00 775808 63.00 775808 64.00 775808 67.00 775808 67.00 775808 70.00 775808 71.00 775808 71.00 775808 71.00 775808 72.00 775808 73.00 775808 74.00 775808 74.00 775808 775
54 55 57 58 59 60 61 62 64 66 67 77 77 77 77	54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76	157464 222755 166375 484193 175616 726290 185193 108943 195112 163415 205379 245123 216000 367684 226981 551527 238328 827290 250047 124093 262144 186140 274625 279210 287496 418815 300763 628223 314432 942335 328509 141350 343000 212025 357911 318038 373248 477057 389017 715586 405224 107337 421875 1610066 438976 241510 456533 362265	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 551919.65 372879.47 559319.21 838978.82 758468.22 637702.33 2456553.50 5184830.25 2777245.38 4165868.07 1248802.10 91873203.15 87809804.73 81714707.09 47757206.63 21358090.95	3.99 4.01 4.03 4.04 4.06 4.08 4.11 4.13 4.14 4.17 4.19 4.20 4.23 4.25 4.26 4.29 4.30 4.30	1.38 1.39 1.40 1.41 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.45 1.45 1.45 1.45 1.45	5.7 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1 6.2 6.2	5	52 310.76 53 317.97 54 325.21 54 332.47 55 347.08 56 347.08 56 354.41 57 361.77 369.16 58 376.57 361.77 369.16 58 384.00 398.39 59 391.45 398.39 50 406.43 61 413.95 61 421.49 52 429.05 62 429.05 63 451.63 63 451.63 64 467.16 64 474.84 474.84 490.26	18014398509481 26028797018963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854 -9223372036854	984 54.00 968 55.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87954 62.00 775808 64.00 775808 65.00 775808 67.00 775808 69.00 775808 69.00 775808 71.00 775808 72.00 775808 72.00 775808 73.00 775808 74.00 775808 74.00 775808 75.00 775808 75.00
54 55 56 57 58 59 60 61 62 63 66 67 70 71 72 73 74 75 77 78 89	54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76	157464 322795i 166375 486193i 175616 726290' 185193 108943i 195112 163415: 205379 245123i 216000 367684i 226981 551527i 238328 827290i 250047 124093i 262144 186140i 274625 279210i 287496 418815i 300763 628223' 314432 942335i 328509 141350i 343000 212025i 357911 318038i 373248 477057i 389017 715586i 405224 107337i 421875 161006i 438976 241510i 456533 362265i 474552 543398i	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 551919.65 372879.47 559319.21 838978.82 758468.22 637702.33 2456553.50 5184830.25 2777245.38 4165868.07 1248802.10 91873203.15 87809804.73 81714707.09 47757206.63 21358090.95	3.99 4.01 4.03 4.04 4.06 4.08 4.11 4.13 4.14 4.16 4.17 4.19 4.20 4.23 4.25 4.26 4.30 4.32 4.32 4.33	1.38 1.39 1.40 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.45 1.45 1.45 1.45 1.46 1.47 1.47	5.7 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1 6.2 2 6.2 6.2 6.2	5	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 347.08 56 354.41 57 361.77 58 376.57 58 376.57 58 376.57 58 384.00 391.45 398.93 411.95 51 421.49 52 436.63 53 444.23 53 451.86 54 474.84 55 490.26 56 498.00	18014398509481 26028797019963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854	984 54.00 968 55.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 64.00 775808 65.00 775808 65.00 775808 69.00 775808 69.00 775808 71.00 775808 72.00 775808 72.00 775808 73.00 775808 74.00 775808 75.00 775808 75.00 775808 76.00 775808 76.00 775808 76.00 775808 77500
54 55 57 58 56 61 62 64 65 66 67 71 72 74 75 77 78 98 89	54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 79 80 81	157464 322795 166375 484193 175616 726290' 185193 108943' 195112 163415' 205379 245123' 216000 367684' 226981 551527' 238328 827290' 250047 124093' 262144 186140' 274625 279210' 287496 418815' 300763 628223' 314432 942335' 328509 141350' 343000 212025' 357911 318038' 373248 477057' 49073 421875 161006' 438976 241510' 456533 362265' 474552 543398' 493039 815097' 512000 122264' 531441 18336'	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 551919.65 372879.47 559319.21 838978.82 2758468.22 637702.33 3456553.50 5184830.25 2777245.38 4165568.07 1248802.10 91873203.15 8780904.73 31714707.09 477572060.63 21358090.95 22037136.42 588055704.64	3.99 4.01 4.04 4.06 4.09 4.11 4.13 4.16 4.17 4.19 4.22 4.23 4.23 4.26 4.33 4.36 4.37 4.38	1.38 1.39 1.40 1.41 1.41 1.42 1.43 1.43 1.44 1.45 1.45 1.45 1.46 1.47 1.47 1.47	5.7 5.8 5.8 5.9 5.9 5.9 6.0 6.0 6.1 6.1 6.1 6.2 6.2 6.3 6.3 6.3	5 8 2 13 2 13 6 6 2 13 2 13 5 5 2 13 5 5 2 13 5 5 7 9 2 13 5 7 9 2 13 5 7 9 2 13 5 7 9 2 13 5 7 9 2 13 5 7 9 2 13 5 7 9 2 13 5 7 9 2 13 5 7 9 2 13 5 7 9 2 14 2	52 310.76 53 317.97 54 325.21 54 323.47 55 329.76 56 347.08 56 354.41 57 361.77 58 376.57 58 376.57 58 376.57 58 4.00 391.45 58 490.43 58 412.99 58 426.63 58 451.66 58 451.66 58 452.54 58 452.54 58 459.50 58 490.26 58 490.26 58 590.75 58 591.53	18014398509481 26028797019963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854	984 54.00 968 55.00 968 55.00 926 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87958 62.00 775808 62.00 775808 65.00 775808 67.00 775808 69.00 775808 71.00 775808 71.00 775808 72.00 775808 73.00 775808 74.00 775808 75.00 775808 75.00 775808 75.00 775808 76.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00
54 55 56 57 58 59 61 62 64 65 66 67 77 77 78 79 80 81 82	54 55 56 57 58 59 60 61 62 63 64 65 66 67 72 72 73 74 75 76 77 78 79 80 81 82	157464 322795i 166375 484193i 175616 726290' 185193 108943i 195112 163415- 205379 245123; 216000 367684i 226981 551527i 238328 827290i 250047 124093; 262144 186140i 274625 279210i 287496 418815i 300763 628223' 314432 942335i 328509 141350i 343000 212025i; 357911 318038i 373248 477057- 389017 715586i 405224 107337i 421875 161006i 438976 241510i 456533 362265- 474552 542398i 493039 815097; 512000 122264i 531441 183366i 551368 275095i	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 54613.10 559319.21 838978.82 878468.22 637702.33 2456553.50 5184830.25 2777245.38 4165868.07 1248802.10 91872203.15 87809804.73 831714707.09 447707.09 457704.64 89708356.97 89708356.97 89708356.97 845625335.44	3.99 4.01 4.04 4.06 4.09 4.11 4.13 4.14 4.17 4.19 4.22 4.23 4.23 4.24 4.23 4.24 4.23 4.24 4.23 4.24 4.23 4.24 4.23 4.24 4.24	1.38 1.39 1.40 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.45 1.45 1.46 1.46 1.47 1.47 1.47 1.47	5.7 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1 6.2 6.3 6.3 6.3	5	52 310.76 53 317.97 54 325.21 54 332.47 55 339.76 54 354.41 57 361.77 58 384.00 58 391.45 58 384.00 59 391.45 59 391.45 50 406.43 51 421.49 52 436.63 53 444.23 53 451.86 54 474.84 55 490.26 56 498.00 566 498.00 566 498.00 566 498.00	18014398509481 26028797019963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058420092136 46116860184273 -9223372036854	984 54.00 968 55.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 64.00 775808 65.00 775808 67.00 775808 67.00 775808 72.00 775808 72.00 775808 72.00 775808 72.00 775808 72.00 775808 72.00 775808 74.00 775808 75.00 775808 76.00 775808 76.00 775808 77.00 775808 76.00 775808 77.00 775808 77.00 775808 77.00 775808 79.00 775808 79.00 775808 79.00 775808 79.00 775808 80.00 775808 80.00 775808 80.00
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54 55 57 58 59 61 62 64 65 66 67 77 77 77 77 80 81 82 83 84 85	54 55 56 57 58 59 60 61 62 63 64 65 66 67 72 72 73 74 75 76 77 78 79 80 81 82	157464 322795 166375 484193 175616 726290' 185193 108943' 195112 163415' 205379 245123' 216000 367684' 226981 551527' 238328 23292' 250047 124093' 262144 186140' 274625 279210' 287496 418815' 300763 628223' 314432 942325' 328509 141350' 343000 212025' 357911 318038' 373248 477057' 421875 161006' 438976 241510' 438976 241510' 438976 241510' 436533 362265' 474552 543398' 49039 15097' 512000 122264' 531441 183396' 551368 275095' 571787 412643' 592704 618964'	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 54613.10 581919.65 372879.47 559319.21 838978.82 758468.22 637702.33 9456553.50 5184830.25 2777245.38 4165868.07 1248802.10 91873203.15 87809804.73 33714707.09 47572060.62 21358090.95 82037136.42 5890585704.64 890585704.64 89058355.44 018438003.12	3.99 4.01 4.04 4.06 4.09 4.11 4.14 4.17 4.12 4.22 4.23 4.24 4.33 4.34 4.34 4.37 4.38 4.37 4.38 4.34 4.34	1.38 1.39 1.40 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.45 1.45 1.46 1.46 1.47 1.47 1.47 1.47	5.7 5.8 5.8 5.9 5.9 6.0 6.0 6.1 6.1 6.1 6.2 6.3 6.3 6.3	5	52 310.76 53 317.97 54 325.21 54 323.47 55 329.76 56 354.41 57 361.77 58 376.57 58 376.57 58 376.57 58 391.45 59 391.45 59 391	18014398509481 26028797019963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058420092136 46116860184273 -9223372036854	984 54.00 988 55.00 988 55.00 988 55.00 988 55.00 988 55.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 775808 62.00 775808 64.00 775808 67.00 775808 69.00 775808 70.00 775808 71.00 775808 71.00 775808 72.00 775808 72.00 775808 73.00 775808 74.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 76.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 77.00 775808 80.00 775808 80.00 775808 80.00 775808 81.00
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54 55 55 57 58 59 61 62 66 66 67 77 77 77 77 77 77 77 77 80 81 82 84 84 85 86 87 97 97 97 97 97 97 97 97 97 97 97 97 97	54 55 56 57 58 59 60 61 62 63 64 65 66 67 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 89 99 90 90 91 92 93 94 95 96 96 97 97 98 98 99 99 99 99 99 99 99 99	157464 322795i 166375 484193i 175616 726290' 185193 108943i 195112 163415: 205379 245123; 216000 367684i 226981 551527i 238328 827290i 250047 124093; 262144 186140i 274625 279210i 287496 418815i 300763 628223' 314432 942335i 328509 141350i 343000 212025; 357911 318038i 373248 477057; 389017 715586i 438976 241510i 456533 362265; 474552 543398i 493039 815097; 512000 122264i 531441 183396i 531441 183396i 531441 183396i 531441 183396i 531441 183296i 53145 275095i 53168 275095i 53168 275095i 53168 36926i 53168 36926i 53168 36926i 532755 535389i 884736 803083i	8844.83 8267.25 7400.88 61101.31 41651.97 12477.96 68716.93 03075.40 54613.10 54613.10 559319.47 559319.21 838978.82 758468.22 637702.33 2456553.50 5184830.25 2777245.38 4165868.07 1248802.10 91873203.15 87809804.73 21714707.09 47572060.63 21358090.95 22037136.42 9598055704.64 8897083556.97 345625335.44 018438003.12 52765704.75 791485507.12 0187228260.50 5280842391.00 7921263586.50 1881895380.00 2822843069.00 2822843069.00 2822843069.00 2822843069.00 2822843069.00 2822843069.00 2822843069.00 2822843069.00 2822843069.00 2822464604.00 2823464604.00 282649864550.00 282049864550.00 280747696832.00	3.99 4.01 4.06 4.08 4.11 4.12 4.12 4.12 4.22 4.23 4.24 4.23 4.33 4.34 4.37 4.38 4.44 4.45 4.45 4.45 4.45 4.45 4.45 4.55 4.55 4.55	1.38 1.39 1.40 1.41 1.41 1.42 1.42 1.43 1.43 1.44 1.45 1.45 1.46 1.47 1.47 1.47 1.47 1.49 1.49 1.49 1.50 1.50 1.50 1.51 1.51	5.7888899999000001111111222223333334444444555555555555555	5 8 2 2 1 3 6 6 2 2 1 3 5 5 2 2 1 3 5 5 2 2 1 3 5 5 2 2 1 3 5 5 2 2 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1	52 310.76 53 317.97 54 325.21 554 332.47 555 339.76 546 354.41 557 361.77 569.16 569 361.57 568 384.00 391.45 398.95 660 406.43 413.95 661 421.49 429.05 662 436.63 444.23 663 451.66 664 474.84 665 498.00 665 498.00 666 505.75 667 168.48 668 552.66 669 568.48 670 584.27 670 584.27 670 584.27 670 584.27 670 584.27 670 592.11 608.14 616.13 672 624.14 662.16	18014398509481 26028797019963 72057594037927 14411518807585 28823037615171 57646075230342 11529215046068 23058430092136 46116860184273 -9223372036854	984 54.00 968 55.00 968 55.00 936 56.00 5872 57.00 1744 58.00 3488 59.00 46976 60.00 93952 61.00 87904 62.00 775808 64.00 775808 65.00 775808 67.00 775808 71.00 775808 71.00 775808 72.00 775808 72.00 775808 73.00 775808 74.00 775808 75.00 775808 75.00 775808 80.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 75.00 775808 80.00 775808 90.00 775808 92.00 775808 92.00 775808 92.00 775808 93.00 775808 94.00 775808 94.00 775808 95.00 775808 95.00
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RESULT:







RESULT ANALYSIS:

The return values of above 11 (linear, non-linear, quadratic, exponential) functions are plotted on three separate line graphs due to extreme variation in range of return values.

In the above 3 graphs, horizontal x-axis represents the value of n from 0 to 100 and the vertical y-axis represents the return value of functions.

Some of the function plotted on graph grow linearly and some grow exponentially.

CONCLUSION:

Various linear,	non-linear,	quadratic,	exponential	functions	were in	mplemented	across	values (of
0 to 100.									