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DAA EXPERIMENT 1

Aim – To implement the various functions e.g. linear, non-linear, quadratic, exponential etc.

Details – A function is a relation between a set of inputs and a set of permissible outputs with the property that each input is related to exactly one output. Let A & B be any two non-empty sets; mapping from A to B will be a function only when every element in set A has one end, only one image in set B.

Code -

```
#include <stdio.h>
#include <math.h>

// (3/2)^n
float one (int n) {
    return pow(1.5,n);
}

// ln(ln(n))
float two (int n) {
    return log(log(n));
}

// 2^(log2(n))
float three (int n) {
    return pow(2,log2(n));
}
```

```
// \log 2(\log 2(n))
float four (int n) {
      return log2(log2(n));
// n^3
float five (int n) {
      return pow(n,3);
// log2(n)
float six (int n) {
       return log2(n);
// log2(n)^log2(n)
float seven (int n) {
      return pow(log2(n),log2(n));
// 2^2\log_2(n)^1/2
float eight (int n) {
      return pow(2,pow(2*log2(n),1/2));
// \log 2(n)^2
float nine (int n) {
      return pow(log2(n),2);
// n*2^n
float ten (int n) {
      return n*pow(2,n);
}
// n!
float fact (int n) {
       int ans = 1;
       for (int i = 2; i < n+1; ++i) ans*=i;
```

```
return ans;
int main () {
                                  printf ("Sr
No. \\ \\ t(3/2)^n \\ \\ tln(ln(n)) \\ \\ t2^(log2(n)) \\ \\ tlog2(n)) \\ \\ tlog2(n) \\ \\ t
t2^2\log_2(n)^1/2\t2^2\log_2(n)^1/2\tn*2^n\tn!\n");
                                   int cnt = 0;
                                   for (int i = 0; i < 101; ++i) {
                                                                     printf ("%d\t", i);
                                                                     printf ("%.3f\t", one(i));
                                                                     printf ("%.3f\t", two(i));
                                                                     printf ("%.3f\t", three(i));
                                                                     printf ("%.3f\t", four(i));
                                                                     printf ("%.3f\t", five(i));
                                                                     printf ("%.3f\t", six(i));
                                                                     printf ("%.3f\t", seven(i));
                                                                     printf ("%.3f\t", eight(i));
                                                                     printf ("%.3f\t", nine(i));
                                                                     printf ("%.3f\t", ten(i));
                                                                     if (cnt++<21) printf ("%.3f\t", fact(i));
                                                                    printf("\n");
                                    }
                                   return 0;
```

Output -

C. N.	(2/2) ^-	1-/1-/-		20/12	(-))	12/1	-2 (-)	- ^ 2	12/-1	12/-1	112/-1	20212	/-\A1/2 2A2
Sr No. log2(n)	^1/2 n	ln(ln(n) *2^n n	!	2^(log2		log2(log		n^3				Z710d7	(n)^1/2 2^2
0 1	1.000 1.500	-nan -inf	0.000 1.000	-nan -inf	0.000 1.000	-inf 0.000	0.000 1.000	2.000	inf 0.000	0.000 2.000	1.000		
2	2.250	-0.367	2.000	0.000	8.000	1.000	1.000	2.000	1.000	8.000 24.000	2.000		
4	3.375 5.062	0.094 0.327	4.000	0.664 1.000	27.000 64.000	1.585	2.075 4.000	2.000	2.512 4.000	64.000	6.000 24.000		
5	7.594	0.476	5.000	1.215	125.000		7.071	2.000	5.391	160.000			
6	11.391	0.583	6.000	1.370	216.000		11.646	2.000	6.682		720.000		
8	17.086 25.629	0.666 0.732	7.000 8.000	1.489 1.585	343.000 512.000		18.136 27.000	2.000	7.881 9.000	2048.000	5040.000	40320.00	00
9	38.443	0.787	9.000	1.664	729.000	3.170	38.751	2.000	10.048	4608.000)	362880.0	
1 0 0	57.665	0.834	10.000	1.732	1000.000	0	3.322	53.954	2.000	11.035	10240.0	00	3628800.00
11 00	86.498			1.791	1331.000		3.459		2.000	11.968	22528.0		39916800.0
12 000	129.746			1.842	1728.000		3.585		2.000	12.852	49152.0		479001600.
13 .000	194.620			1.888	2197.000		3.700	126.703		13.693	106496.		1932053504
14	291.929	0.970	14.000	1.929	2744.000	0	3.807	162.420	2.000	14.496	229376.	000	1278945280
15 .000	437.894	0.996	15.000	1.966	3375.000	0	3.907	205.220		15.264	491520.		2004310016
16 .000	656.841		16.000	2.000	4096.000	0	4.000	256.000	2.000	16.000	1048576		2004189184
17 .000	985.261	1.041	17.000	2.031	4913.000	0	4.087	315.715		16.707	2228224	.000	-288522240
18 8433024	1477.89 .000	2	1.061	18.000	2.060	5832.000		4.170	385.379		17.388	4718592	
19 641728.			1.080	19.000	2.087	6859.000		4.248	466.070	2.000	18.045	9961472	
20 0213273	3325.25 6.000	7	1.097	20.000	2.112	8000.000		4.322	558.924	2.000	18.679	20971520	0.000 -21
21 22 23	4987.88 7481.82		1.113 1.129	21.000 22.000	2.135 2.157	9261.000		4.392 4.459	665.143 785.991		19.292 19.887	44040192 92274688	
23 24	11222.7 16834.1	41	1.143	23.000 24.000	2.177	12167.00	00	4.524 4.585	922.798 1076.961		20.463 2.000	19293798	84.000 402653184.
25 000	25251.1	68	1.169	25.000	2.215	15625.00	00	4.644	1249.940)	2.000	21.565	838860800.
26	37876.7	54	1.181	26.000	2.233	17576.00	00	4.700	1443.266		2.000	22.094	1744830464
27	56815.1	29	1.193	27.000	2.249	19683.00	00	4.755	1658.539)	2.000	22.609	3623878656
28	85222.6	95	1.204	28.000	2.265	21952.00	00	4.807	1897.427		2.000	23.111	7516192768
29	127834.	039	1.214	29.000	2.280	24389.00	00	4.858	2161.669)	2.000	23.600	1556925644
30	191751.	062	1.224	30.000	2.295	27000.00	00	4.907	2453.078		2.000	24.078	3221225472
31 8.000	287626.	594	1.234	31.000	2.309	29791.00	00	4.954	2773.535		2.000	24.544	6657199308
32 72.000	431439.	875	1.243	32.000	2.322	32768.00	00	5.000	3125.000		2.000	25.000	1374389534
33 36.000	647159.	812	1.252	33.000	2.335	35937.00	00	5.044	3509.503	3	2.000		2834678415
34 56.000	970739.	750	1.260	34.000	2.347	39304.00	00	5.087	3929.152		2.000	25.882	5841155522
35 880.000			1.268	35.000	2.359	42875.00	00	5.129	4386.131		2.000		1202590842
36 496.000	2184164	.500	1.276	36.000	2.370	46656.00	00	5.170	4882.700		2.000	26.728	2473901162
37 464.000	3276246	.500	1.284	37.000	2.381	50653.00	00	5.209	5421.198		2.000	27.138	5085241278
38 3872.00	4914370	.000	1.291	38.000	2.392	54872.00	00	5.248	6004.045		2.000	27.541	1044536046
39 1632.00	7371555	.000	1.298	39.000		59319.00	00	5.285	6633.738		2.000	27.935	2144047674
40 1040.00	1105733 00	2.000	1.305	40.000	2.412	64000.00	00	5.322	7312.856		2.000	28.323	4398046511
41 7632.00			1.312	41.000	2.422	68921.00	00	5.358	8044.062		2.000		9015995347
42 66368.0	2487899 000	8.000	1.318	42.000		74088.00		5.392	8830.098		2.000		1847179534
43	3731849	6.000	1.325	43.000	2.440	79507.00	00	5.426	9673.793	3	2.000	29.444	3782319999
1													

43 37318496.000 1.325	43.000	2.440	79507.000	5.426	9673.793	2.000	29.444	3782319999
54944.000 44 55977744.000 1.331	44.000	2.449	85184.000	5.459	10578.060	2.000	29.805	7740561859
54304.000 45 83966616.000 1.337	45.000	2.457	91125.000	5.492	11545.895	2.000	30.160	1583296743
997440.000 46 125949928.000 1.343	46.000	2.466	97336.000	5.524	12580.384	2.000	30.510	3236962232
172544.000 47 188924896.000 1.348	47.000	2.474	103823.000	5.555	13684.699	2.000	30.853	6614661952
700416.000 48 283387328.000 1.354	48.000	2.482	110592.000	5.585	14862.099	2.000	31.192	1351079888
2111488.000 49 425080992.000 1.359	49.000	2.489	117649.000	5.615	16115.934	2.000	31.525	2758454771
7644288.000 50 637621504.000 1.364	50.000	2.497	125000.000	5.644	17449.643		31.853	5629499534
2131200.000						2.000		
51 956432256.000 1.369 97947648.000	51.000	2.504	132651.000	5.672	18866.754	2.000	32.176	1148417904
52 1434648320.000 1.374 23265792.000	52.000	2.511	140608.000	5.700	20370.891	2.000	32.495	2341871806
53 2151972608.000 1.379 01272576.000	53.000	2.518	148877.000	5.728	21965.768	2.000	32.809	4773815605
54 3227958784.000 1.384 12027136.000	54.000	2.525	157464.000	5.755	23655.193	2.000	33.119	9727775195
55 4841938432.000 1.388 043018240.000	55.000	2.531	166375.000	5.781	25443.068	2.000	33.424	1981583836
56 7262907392.000 1.393 123964416.000	56.000	2.538	175616.000	5.807	27333.393	2.000	33.725	4035225266
57 10894361600.000 1.397	57.000	2.544	185193.000	5.833	29330.260	2.000	34.023	8214565720
323784704.000 58 16341541888.000 1.401	58.000	2.550	195112.000	5.858	31437.857	2.000	34.316	1671736181
6799281152.000 59 24512313344.000 1.405	59.000	2.556	205379.000	5.883	33660.480	2.000	34.605	3401118438
5901985792.000 60 36768468992.000 1.410	60.000	2.562	216000.000	5.907	36002.512	2.000	34.891	6917529027
6410818560.000 61 55152701440.000 1.414	61.000	2.568	226981.000	5.931	38468.441	2.000	35.174	1406564235
								-
61 55152701440.000 1.414	61.000	2.568	226981.000	5.931	38468.441	2.000	35.174	1406564235
61 55152701440.000 1.414 62035331072.000 62 82729058304 000 1 418	61.000	2.568	226981.000	5.931	38468.441	2.000	35.174	1406564235
62035331072.000 62 82729058304.000 1.418 42498050048.000	62.000	2.574	238328.000	5.954	41062.855	2.000	35.452	2859245331
62035331072.000 62 82729058304.000 1.418 42498050048.000 63 124093579264.000 072438321850875904.000	62.000	2.574 63.000	238328.000 2.579 250047	5.954	41062.855 5.977 4379	2.000 0.445	35.452 2.000	2859245331 35.728 581
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62035331072.000 62 82729058304.000 1.418 42498050048.000 63 124093579264.000 072438321850875904.000 64 186140377088.000 0591620717411303424.000 65 279210557440.000 8076729582241710080.000 66 418815836160.000 9940435459321626624.000 67 628223770624.000 67 628223770624.000 7454823508319666176.000 68 942335655936.000 70057552195992158208.000 69 1413503516672.000 30410914750689968128.000 70 2120255143936.000	62.000 1.421 1.425 1.429 1.433 1.436	2.574 63.000 64.000 65.000 66.000 67.000 68.000	238328.000 2.579	5.954 .000 .000 .000 .000 .000	41062.855 5.977 4379 6.000 4665 6.022 4966 6.044 5282 6.066 5612 6.087 5959 6.109 6322	2.000 0.445 6.000 4.418 0.695 9.938 7.352	35.452 2.000 2.000 2.000 2.000 2.000 2.000	2859245331 35.728 581 36.000 118 36.269 239 36.535 486 36.797 988 37.057 200
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62035331072.000 62 82729058304.000 1.418 42498050048.000 63 124093579264.000 072438321850875904.000 64 186140377088.000 0591620717411303424.000 65 279210557440.000 8076729582241710080.000 66 418815836160.000 9940435459321626624.000 67 628223770624.000 7454823508319666176.000 68 942335655936.000 70057552195992158208.000 70 1413503516672.000 30410914750689968128.000 70 2120255143936.000 71 3180382650368.000 71 3180382650368.000 72 4770574106624.000	62.000 1.421 1.425 1.429 1.433 1.436 1.440 1.443	2.574 63.000 64.000 65.000 66.000 67.000 68.000 70.000	238328.000 2.579	5.954 .000 .000 .000 .000 .000 .000	41062.855 5.977 4379 6.000 4665 6.022 4966 6.044 5282 6.066 5612 6.087 5959 6.109 6322 6.129 6702 6.150 7100	2.000 0.445 6.000 4.418 0.695 9.938 7.352 8.258 8.078	35.452 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000	2859245331 35.728 581 36.000 118 36.269 239 36.535 486 36.797 988 37.057 200 37.314 407 37.568 826
62035331072.000 62 82729058304.000 1.418 42498050048.000 63 124093579264.000 072438321850875904.000 64 186140377088.000 0591620717411303424.000 65 279210557440.000 8076729582241710080.000 66 418815836160.000 9940435459321626624.000 67 628223770624.000 7454823508319666176.000 68 942335655936.000 70057552195992158208.000 69 1413503516672.000 30410914750689968128.000 70 2120255143936.000 71 3180382650368.000 72 4770574106624.000 73 7155861159936.000	62.000 1.421 1.425 1.429 1.433 1.436 1.440 1.443 1.447	2.574 63.000 64.000 65.000 66.000 67.000 68.000 70.000 71.000	238328.000 2.579	5.954 .000 .000 .000 .000 .000 .000 .000	41062.855 5.977 4379 6.000 4665 6.022 4966 6.044 5282 6.066 5612 6.087 5959 6.109 6322 6.129 6702 6.150 7100 6.170 7515	2.000 0.445 6.000 4.418 0.695 9.938 7.352 8.258 8.078 2.336	35.452 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000	2859245331 35.728 581 36.000 118 36.269 239 36.535 486 36.797 988 37.057 200 37.314 407 37.568 826 37.819 167
62035331072.000 62 82729058304.000 1.418 42498050048.000 63 124093579264.000 072438321850875904.000 64 186140377088.000 0591620717411303424.000 65 279210557440.000 8076729582241710080.000 66 418815836160.000 9940435459321626624.000 67 628223770624.000 7454823508319666176.000 68 942335655936.000 70057552195992158208.000 69 1413503516672.000 30410914750689968128.000 70 2120255143936.000 41413450218791239680.000 71 3180382650368.000 64401011472405086208.000 72 4770574106624.000 010386766614455386112.000	62.000 1.421 1.425 1.429 1.433 1.436 1.440 1.443 1.447 1.450	2.574 63.000 64.000 65.000 66.000 67.000 68.000 70.000 71.000 72.000	238328.000 2.579	5.954 .000 .000 .000 .000 .000 .000 .000	41062.855 5.977 4379 6.000 4665 6.022 4966 6.044 5282 6.066 5612 6.087 5959 6.109 6322 6.129 6702 6.150 7100 6.170 7515 6.190 7949	2.000 0.445 6.000 4.418 0.695 9.938 7.352 8.258 8.078 2.336 6.688	35.452 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000	2859245331 35.728 581 36.000 118 36.269 239 36.535 486 36.797 988 37.057 200 37.314 407 37.568 826 37.819 167 38.068 340 38.314 689
62035331072.000 62 82729058304.000 1.418 42498050048.000 63 124093579264.000 072438321850875904.000 64 186140377088.000 0591620717411303424.000 65 279210557440.000 8076729582241710080.000 66 418815836160.000 67 628223770624.000 67 628223770624.000 7454823508319666176.000 68 942335655936.000 70057552195992158208.000 69 1413503516672.000 30410914750689968128.000 70 2120255143936.000 41413450218791239680.000 71 3180382650368.000 644010141872405086208.000 6444010141872405086208.000 72 4770574106624.000 010386766614455386112.000 73 715866159936.000 74 10733792264192.000 7820478929414983254016.000	62.000 1.421 1.425 1.429 1.433 1.436 1.440 1.443 1.447 1.450 1.453 1.456 1.460	2.574 63.000 64.000 65.000 66.000 67.000 68.000 70.000 71.000 72.000 73.000 74.000	238328.000 2.579	5.954 .000 .000 .000 .000 .000 .000 .000	41062.855 5.977 4379 6.000 4665 6.022 4966 6.044 5282 6.066 5612 6.087 5959 6.109 6322 6.129 6702 6.150 7100 6.170 7515 6.190 7949 6.209 8402	2.000 0.445 6.000 4.418 0.695 9.938 7.352 8.258 8.078 2.336 6.688 6.867 8.750	35.452 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000	2859245331 35.728 581 36.000 118 36.269 239 36.535 486 36.797 988 37.057 200 37.314 407 37.568 826 37.819 167 38.068 340 38.314 689 38.557 139
62035331072.000 62 82729058304.000 1.418 42498050048.000 63 124093579264.000 072438321850875904.000 64 186140377088.000 0591620717411303424.000 65 279210557440.000 8076729582241710080.000 66 418815836160.000 9940435459321626624.000 67 628223770624.000 7454823508319666176.000 68 942335655936.000 70057552195992158208.000 69 1413503516672.000 30410914750689968128.000 70 2120255143936.000 41413450218791239680.000 71 3180382650368.000 644010141872405086208.000 72 4770574106624.000 010386766614455386112.000 73 7155861159936.000 465506498968201199616.000 74 10733792264192.000 7820478929414983254016.000 75 16100687347712.000 3419889721787128217600.000	62.000 1.421 1.425 1.429 1.433 1.436 1.440 1.443 1.447 1.450 1.453 1.456 1.460 1.463	2.574 63.000 64.000 65.000 66.000 67.000 68.000 70.000 71.000 72.000 73.000 74.000 75.000	238328.000 2.579	5.954 .000 .000 .000 .000 .000 .000 .000 .0	41062.855 5.977 4379 6.000 4665 6.022 4966 6.044 5282 6.066 5612 6.087 5959 6.109 6322 6.129 6702 6.150 7100 6.170 7515 6.190 7949 6.209 8402 6.229 8875	2.000 0.445 6.000 4.418 0.695 9.938 7.352 8.258 8.078 2.336 6.688 6.867 8.750	35.452 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000	2859245331 35.728 581 36.000 118 36.269 239 36.535 486 36.797 988 37.057 200 37.314 407 37.568 826 37.819 167 38.068 340 38.314 689 38.557 139 38.798 283
62035331072.000 62 82729058304.000 1.418 42498050048.000 63 124093579264.000 072438321850875904.000 64 186140377088.000 0591620717411303424.000 65 279210557440.000 8076729582241710080.000 66 418815836160.000 9940435459321626624.000 67 628223770624.000 7454823508319666176.000 68 942335655936.000 70057552195992158208.000 69 1413503516672.000 30410914750689968128.000 70 2120255143936.000 71 3180382650368.000 644010114172405086208.000 72 4770574106624.000 010386766614455386112.000 73 715861159936.000 74 10733792264192.000 7820478929414983254016.000 7820478929414983254016.000 75 16100687347712.000 3419889721787128217600.000 76 24151031021568.000	62.000 1.421 1.425 1.429 1.433 1.436 1.440 1.443 1.447 1.450 1.453 1.466	2.574 63.000 64.000 65.000 66.000 67.000 68.000 70.000 71.000 72.000 73.000 74.000 75.000 76.000	238328.000 2.579	5.954 .000 .000 .000 .000 .000 .000 .000 .0	41062.855 5.977 4379 6.000 4665 6.022 4966 6.044 5282 6.066 5612 6.087 5959 6.109 6322 6.129 6702 6.150 7100 6.170 7515 6.190 7949 6.209 8402 6.229 8875 6.248 9369	2.000 0.445 6.000 4.418 0.695 9.938 7.352 8.258 8.078 2.336 6.688 6.867 8.750 8.305 1.617	35.452 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000	2859245331 35.728 581 36.000 118 36.269 239 36.535 486 36.797 988 37.057 200 37.314 407 37.568 826 37.819 167 38.068 340 38.314 689 38.557 139 38.798 283 39.037 574
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94 35692612748836864.000 1.514 94.000 2.713 830584.000 6.555 224967.469 2.000 42.963	10/
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Table -

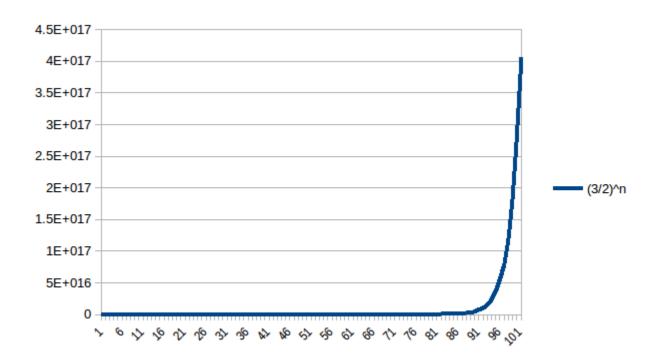
Sr No.	(3/2)^n	ı	ln(ln(n))	2	2^(log2(n))	log2(log2(n))	n^3	log2(n)	log2(n)^log2(r	2^2log2(n)^1/	2^2log2(n)^1/	n*2^n	n!
	0	1		0	0	(0	0	0	2	0	0	
	1	1.5		0	1	(1	0	1	2	0	2	
	2	2.25	-0.3	67	2	(8	1	1	2	1	8	
	3	3.375	0.0	94	3	0.664	27	1.585	2.075	2	2.512	24	
	4	5.062	0.3	27	4	1	. 64	2	4	2	4	64	
	5	7.594	0.4	76	5	1.215	125	2.322	7.071	2	5.391	160	1
	6	11.391	0.5	83	6	1.37	216	2.585	11.646	2	6.682	384	7
	7	17.086	0.6	66	7	1.489	343	2.807	18.136	2	7.881	896	50
	8	25.629	0.7	32	8	1.585	512	3	27	2	9	2048	403
	9	38.443	0.7	87	9	1.664	729	3.17	38.751	2	10.048	4608	3628
	10	57.665	0.8	34	10	1.732	1000	3.322	53.954	2	11.035	10240	36288
	11	86.498	0.8	75	11	1.791	. 1331	3.459	73.223	2	11.968	22528	399168
	12 1	29.746	0.	91	12	1.842	1728	3.585	97.231	2	12.852	49152	4790016
	13	194.62	0.9	42	13	1.888	2197	3.7	126.703	2	13.693	106496	19320535
	14 2	91.929	0.	97	14	1.929	2744	3.807	162.42	2	14.496	229376	12789452
	15 4	137.894	0.9	96	15	1.966	3375	3.907	205.22	2	15.264	491520	20043100
	16 6	56.841	1.	02	16	2	4096	4	256	2	16	1048576	20041893
	17 9	985.261	1.0	41	17	2.031	4913	4.087	315.715	2	16.707	2228224	
	18 14	177.892	1.0	61	18	2.06	5832	4.17	385.379	2	17.388	4718592	
	19 22	216.838	1.	08	19	2.087	6859	4.248	466.07	2	18.045	9961472	
	20 33	325.257	1.0	97	20	2.112	8000	4.322	558.924	2	18.679	20971520	
	21 49	987.885	1.1	13	21	2.135	9261	4.392	665.143	2	19.292	44040192	
	22 74	181.828	1.1	29	22	2.157	10648	4.459	785.991	2	19.887	92274688	
	23 112	222.741	1.1	43	23	2.177	12167	4.524	922.798	2	20.463	192937984	
	24 168	34.111	1.1	56	24	2.197	13824	4.585	1076.961	2	21.022	402653184	
	25 252	251.168	1.1	69	25	2.215	15625	4.644	1249.94	2	21.565	838860800	
	26 378	376.754	1.1	81	26	2.233	17576	4.7	1443.266	2	22.094	1744830464	
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	29 1278	34.039	1.2	14	29	2.28	24389	4.858	2161.669	2	23.6	15569256448	
	30 1917	51.062	1.2	24	30	2.295	27000	4,907	2453.078	2	24.078	32212254720	

29	127834.039	1.214	29	2.28	24389	4.858	2161.669	2	23.6 15569256448
30	191751.062	1.224	30	2.295	27000	4.907	2453.078	2	24.078 32212254720
31	287626.594	1.234	31	2.309	29791	4.954	2773.535	2	24.544 66571993088
32	431439.875	1.243	32	2.322	32768	5	3125	2	25 1.37439E+11
33	647159.812	1.252	33	2.335	35937	5.044	3509.503	2	25.446 2.83468E+11
34	970739.75	1.26	34	2.347	39304	5.087	3929.152	2	25.882 5.84116E+11
35 14	456109.625	1.268	35	2.359	42875	5.129	4386.131	2	26.31 1.20259E+12
36	2184164.5	1.276	36	2.37	46656	5.17	4882.7	2	26.728 2.4739E+12
37	3276246.5	1.284	37	2.381	50653	5.209	5421.198	2	27.138 5.08524E+12
38	4914370	1.291	38	2.392	54872	5.248	6004.045	2	27.541 1.04454E+13
39	7371555	1.298	39	2.402	59319	5.285	6633.738	2	27.935 2.14405E+13
40	11057332	1.305	40	2.412	64000	5.322	7312.856	2	28.323 4.39805E+13
41	16585998	1.312	41	2.422	68921	5.358	8044.062	2	28.703 9.016E+13
42	24878998	1.318	42	2.431	74088	5.392	8830.098	2	29.077 1.84718E+14
43	37318496	1.325	43	2.44	79507	5.426	9673.793	2	29.444 3.78232E+14
44	55977744	1.331	44	2.449	85184	5.459	10578.06	2	29.805 7.74056E+14
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46	125949928	1.343	46	2.466	97336	5.524	12580.384	2	30.51 3.23696E+15
47	188924896	1.348	47	2.474	103823	5.555	13684.699	2	30.853 6.61466E+15
48	283387328	1.354	48	2.482	110592	5.585	14862.099	2	31.192 1.35108E+16
49	425080992	1.359	49	2.489	117649	5.615	16115.934	2	31.525 2.75845E+16
50	637621504	1.364	50	2.497	125000	5.644	17449.643	2	31.853 5.6295E+16
51	956432256	1.369	51	2.504	132651	5.672	18866.754	2	32.176 1.14842E+17
52 1	1434648320	1.374	52	2.511	140608	5.7	20370.891	2	32.495 2.34187E+17
53 2	2151972608	1.379	53	2.518	148877	5.728	21965.768	2	32.809 4.77382E+17
54 3	3227958784	1.384	54	2.525	157464	5.755	23655.193	2	33.119 9.72778E+17
55 4	4841938432	1.388	55	2.531	166375	5.781	25443.068	2	33.424 1.98158E+18
56 7	7262907392	1.393	56	2.538	175616	5.807	27333.393	2	33.725 4.03523E+18
57 10	0894361600	1.397	57	2.544	185193	5.833	29330.26	2	34.023 8.21457E+18
58 16	6341541888	1.401	58	2.55	195112	5.858	31437.857	2	34.316 1.67174E+19
59 24	4512313344	1.405	59	2.556	205379	5.883	33660.48	2	34.605 3.40112E+19
60 36	6768468992	1.41	60	2.562	216000	5.907	36002.512	2	34.891 6.91753E+19
	512313344 768468992	1.405 1.41	59 60	2.556 2.562	205379 216000	5.883	33660.48	2	34.605 3.40112E+19
60 36	768468992	1.41	60	2.562	216000				
61 55						5.907	36002.512	2	34.891 6.91753E+19
CO 00	152701440	1.414	61	2.568	226981	5.931	38468.441	2	35.174 1.40656E+20
	729058304	1.418	62	2.568 2.574	226981 238328	5.931 5.954	38468.441 41062.855	2 2	35.174 1.40656E+20 35.452 2.85925E+20
63 1.2	729058304 24094E+11	1.418 1.421	62 63	2.568 2.574 2.579	226981 238328 250047	5.931 5.954 5.977	38468.441 41062.855 43790.445	2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20
63 1.2 64 1	729058304 24094E+11 8614E+11	1.418 1.421 1.425	62 63 64	2.568 2.574 2.579 2.585	226981 238328 250047 262144	5.931 5.954 5.977 6	38468.441 41062.855 43790.445 46656	2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21
63 1.2 64 1 65 2.7	2729058304 24094E+11 8614E+11 79211E+11	1.418 1.421 1.425 1.429	62 63 64 65	2.568 2.574 2.579 2.585 2.59	226981 238328 250047 262144 274625	5.931 5.954 5.977 6 6.022	38468.441 41062.855 43790.445 46656 49664.418	2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21
63 1.2 64 1 65 2.7 66 4.1	729058304 24094E+11 8614E+11 79211E+11 18816E+11	1.418 1.421 1.425 1.429 1.433	62 63 64 65 66	2.568 2.574 2.579 2.585 2.59 2.596	226981 238328 250047 262144 274625 287496	5.931 5.954 5.977 6 6.022 6.044	38468.441 41062.855 43790.445 46656 49664.418 52820.695	2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21
63 1.2 64 1 65 2.7 66 4.1 67 6.2	2729058304 24094E+11 8614E+11 79211E+11 18816E+11 28224E+11	1.418 1.421 1.425 1.429 1.433 1.436	62 63 64 65 66	2.568 2.574 2.579 2.585 2.59 2.596 2.601	226981 238328 250047 262144 274625 287496 300763	5.931 5.954 5.977 6 6.022 6.044 6.066	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938	2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21
63 1.2 64 1 65 2.7 66 4.1 67 6.2 68 9.4	729058304 24094E+11 8614E+11 79211E+11 18816E+11 28224E+11 42336E+11	1.418 1.421 1.425 1.429 1.433 1.436 1.44	62 63 64 65 66 67 68	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606	226981 238328 250047 262144 274625 287496 300763 314432	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352	2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22
63 1.2 64 1 65 2.7 66 4.1 67 6.2 68 9.4 69 1	729058304 24094E+11 8614E+11 79211E+11 18816E+11 28224E+11 42336E+11 4135E+12	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443	62 63 64 65 66 67 68 69	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611	226981 238328 250047 262144 274625 287496 300763 314432 328509	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258	2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22
63 1.2 64 1. 65 2.7 66 4.1 67 6.2 68 9.4 69 1. 70 2.1	7729058304 24094E+11 8614E+11 79211E+11 18816E+11 28224E+11 42336E+11 4135E+12 12026E+12	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443	62 63 64 65 66 67 68 69 70	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078	2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22
63 1.2 64 1. 65 2.7 66 4.1 67 6.2 68 9.4 69 1. 70 2.1 71 3.1	2729058304 24094E+11 8614E+11 79211E+11 18816E+11 28224E+11 42336E+11 4135E+12 12026E+12 18038E+12	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443 1.447	62 63 64 65 66 67 68 69 70	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336	2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22 37.819 1.67644E+23
63 1.2 64 1 65 2.7 66 4.1 67 6.2 68 9.4 69 1 70 2.1 71 3.1 72 4.7	2729058304 24094E+11 .8614E+11 79211E+11 18816E+11 28224E+11 42336E+11 .4135E+12 12026E+12 18038E+12 77057E+12	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443 1.447 1.447	62 63 64 65 66 67 68 69 70 71	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.558 8.26414E+22 37.819 1.67644E+23 38.068 3.4001E+23
63 1.2 64 1 65 2.7 66 4.1 67 6.2 68 9.4 69 1 70 2.1 71 3.1 72 4.7 73 7.1	1729058304 24094E+11 .8614E+11 .8614E+11 18816E+11 28224E+11 42336E+11 .4135E+12 12026E+12 18038E+12 77057E+12 15586E+12	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443 1.447 1.453 1.453	62 63 64 65 66 67 68 69 70 71 72 73	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.63	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.19	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22 37.819 1.67644E+23 38.068 3.4001E+23 38.314 6.89466E+23
63 1.2 64 1. 65 2.7 66 4.1 67 6.2 68 9.4 69 1. 70 2.1 71 3.1 72 4.7 73 7.1 74 1.0	1729058304 24094E+11 .8614E+11 79211E+11 18816E+11 28224E+11 42336E+11 .4135E+12 12026E+12 17057E+12 15586E+12 07338E+13	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443 1.447 1.45 1.453 1.456	62 63 64 65 66 67 68 69 70 71 72 73	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.63	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.19 6.209	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.819 1.67644E+22 38.314 6.89466E+23 38.314 6.89466E+23 38.557 1.39782E+24
63 1.2 64 1. 65 2.7 66 4.1 67 6.2 68 9.4 69 1. 70 2.1 71 3.1 72 4.7 73 7.1 74 1.0 75 1.6	1729058304 24094E+11 .8614E+11 79211E+11 18816E+11 18816E+11 28224E+11 42336E+11 .4135E+12 12026E+12 18038E+12 77057E+12 15586E+12 07338E+13 61007E+13	1.418 1.421 1.425 1.429 1.433 1.436 1.444 1.443 1.447 1.45 1.453 1.456 1.464	62 63 64 65 66 67 68 69 70 71 72 73 74	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.634 2.634	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224 421875	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.19 6.209	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75 88758.305	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22 37.819 1.67644E+23 38.068 3.4001E+23 38.314 6.89466E+23 38.557 1.39782E+24 38.798 2.83342E+24
63 1.2 64 1. 65 2.7 66 4.1 67 6.2 68 9.4 69 1. 70 2.1 71 3.1 72 4.7 73 7.1 74 1.0 76 2.	1729058304 24094E+11 .8614E+11 79211E+11 18816E+11 28224E+11 42336E+11 212026E+12 18038E+12 177057E+12 15586E+12 07338E+13 61007E+13	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443 1.447 1.45 1.453 1.456 1.466	62 63 64 65 66 67 68 69 70 71 72 73 74 75	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.634 2.634 2.639 2.643	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224 421875 438976	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.209 6.229	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75 88758.305 93691.617	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.314 4.07304E+22 37.819 1.67644E+23 38.068 3.4001E+23 38.314 6.89466E+23 38.557 1.39782E+24 38.798 2.83342E+24 39.037 5.7424E+24
63 1.2 64 1. 65 2.7 66 4.1 67 6.2 68 9.4 69 1. 70 2.1 71 3.1 72 4.7 73 7.1 74 1.0 75 1.6 76 2. 77 3.6	1729058304 24094E+11 .8614E+11 .8614E+11 18816E+11 18816E+11 18824E+11 .4135E+12 12026E+12 18038E+12 17057E+12 15586E+12 07738E+13 61007E+13 .4151E+13 62265E+13	1.418 1.421 1.425 1.429 1.433 1.436 1.444 1.443 1.447 1.45 1.453 1.456 1.466 1.463	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.63 2.634 2.634 2.639 2.643 2.648	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224 421875 438976 456533	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.19 6.209 6.229 6.228	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75 88758.305 93691.617	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.558 8.26414E+22 37.819 1.67644E+23 38.068 3.4001E+23 38.314 6.89466E+23 38.557 1.39782E+24 38.798 2.83342E+24 39.037 5.7424E+24 39.273 1.16359E+25
63 1.2 64 1. 65 2.7 66 4.1 67 6.2 68 9.4 69 1. 70 2.1 71 3.1 72 4.7 73 7.1 74 1.0 75 1.6 76 2 77 3.6	1729058304 24094E+11 .8614E+11 .8614E+11 18816E+11 18816E+11 28224E+11 42336E+11 .4135E+12 17057E+12 18038E+12 77057E+12 15586E+12 07338E+13 61007E+13 .4151E+13 62265E+13 43398E+13	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443 1.447 1.45 1.453 1.456 1.466 1.463 1.466 1.469 1.472	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.63 2.634 2.639 2.643 2.648 2.652	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224 421875 438976 456533 474552	5.931 5.954 5.977 6 6.022 6.044 6.065 6.109 6.129 6.15 6.17 6.19 6.209 6.229 6.248 6.267 6.285	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75 88758.305 93691.617 98834.883 104194.422	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22 37.819 1.67644E+23 38.014 6.89466E+23 38.314 6.89466E+23 38.557 1.39782E+24 38.798 2.83342E+24 39.973 5.7424E+24 39.973 1.16359E+25 39.506 2.35741E+25
63 1.2 64 1 65 2.7 66 4.1 67 6.2 68 9.4 70 2.1 71 3.1 72 4.7 73 7.1 74 1.0 75 1.6 76 2 77 3.6 78 5.4	1729058304 24094E+11 .8614E+11 79211E+11 18816E+11 18816E+11 28224E+11 42336E+11 .4135E+12 12026E+12 18038E+12 77057E+12 15586E+12 07338E+13 61007E+13 .4151E+13 62265E+13 43398E+13 15097E+13	1.418 1.421 1.425 1.429 1.433 1.436 1.444 1.443 1.447 1.45 1.456 1.466 1.463 1.466 1.469 1.472	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.634 2.639 2.643 2.643 2.648 2.652 2.656	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224 421875 438976 456533 474552 493039	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.19 6.209 6.229 6.248 6.265 6.285 6.304	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75 88758.305 93691.617 98834.883 104194.422	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.535 4.86994E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22 37.819 1.67644E+23 38.068 3.4001E+23 38.314 6.89466E+23 38.557 1.39782E+24 38.798 2.83342E+24 39.037 5.7424E+24 39.273 1.16359E+25 39.506 2.35741E+25 39.738 4.77526E+25
63 1.2 64 1. 65 2.7 66 4.1 67 6.2 68 9.4 69 1. 70 2.1 71 3.1 72 4.7 73 7.1 74 1.0 75 1.6 76 2 77 3.6 78 5.4 79 8.1	1729058304 24094E+11 .8614E+11 79211E+11 18816E+11 18824E+11 42336E+11 .4135E+12 12026E+12 18038E+12 177057E+12 15586E+12 15586E+12 .4151E+13 .62265E+13 .43398E+13 .43398E+13 .43398E+13 .43398E+13 .43398E+13 .43398E+13 .4265E+14	1.418 1.421 1.425 1.429 1.433 1.436 1.44 1.443 1.447 1.45 1.453 1.456 1.46 1.463 1.466 1.469 1.472 1.475 1.475	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.616 2.611 2.616 2.621 2.625 2.634 2.634 2.639 2.648 2.648 2.652 2.656 2.656	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224 421875 438976 456533 474552 493039 512000	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.19 6.209 6.229 6.248 6.267 6.267 6.304 6.322	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75 88758.305 93691.617 98834.883 104194.422 109776.664	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.535 4.86994E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22 37.819 1.67644E+23 38.068 3.4001E+23 38.314 6.89466E+23 38.357 1.39782E+24 38.798 2.83342E+24 39.037 5.7424E+24 39.273 1.16359E+25 39.506 2.35741E+25 39.738 4.77526E+25 39.967 9.67141E+25
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63 1.2 64 1 65 2.7 66 4.1 67 6.2 68 9.4 69 1 70 2.1 71 3.1 72 4.7 73 7.1 74 1.0 75 1.6 80 1.2 80 1.2 81 1.8 82 2.7 83 4.1 84 6.1 85 9.2 86 1.3 87 2.0 88 3.1	1729058304 24094E+11 .8614E+11 .8614E+11 179211E+11 18816E+11 18816E+11 128224E+11 42336E+11 .4135E+12 12026E+12 18038E+12 177057E+12 15586E+12 107338E+13 61007E+13 .4151E+13 62265E+13 43398E+13 15097E+13 12265E+14 183397E+14 18965E+14 18965E+14 18965E+14 18947E+14 18965E+14 18947E+15 189901E+15 18351E+15	1.418 1.421 1.425 1.429 1.433 1.436 1.444 1.443 1.447 1.45 1.453 1.456 1.46 1.463 1.466 1.469 1.472 1.475 1.478 1.488 1.488 1.488 1.489 1.491 1.494 1.496 1.499	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 88	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.63 2.634 2.639 2.643 2.648 2.652 2.656 2.666 2.664 2.668 2.672 2.676 2.688 2.688 2.691	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224 421875 438976 456533 474552 493039 512000 531441 551368 571787 592704 614125 636056 658503 681472	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.19 6.209 6.229 6.248 6.267 6.304 6.352 6.304 6.352 6.356 6.375 6.392 6.409 6.443 6.443	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75 88758.305 93691.617 98834.883 104194.422 109776.664 115588.141 121635.523 127925.594 134465.25 141261.5 148321.484 155652.453 163261.797 171157.016	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.535 4.86994E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22 37.819 1.67644E+23 38.068 3.4001E+23 38.314 6.89466E+23 38.557 1.39782E+24 38.798 2.83342E+24 39.037 5.7424E+24 39.273 1.16359E+25 39.506 2.35741E+25 39.738 4.77526E+25 39.967 9.67141E+25 40.194 1.95846E+26 40.418 3.96528E+26 40.641 8.02727E+26 40.862 1.6248E+27 41.08 3.28828E+27 41.08 3.28828E+27 41.09 6.65393E+27 41.512 1.34626E+28 41.724 2.72347E+28
63 1.2 64 1 65 2.7 66 4.1 67 6.2 68 9.4 69 1 70 2.1 73 7.1 74 1.0 75 1.6 76 2 77 3.6 78 5.4 79 8.1 80 1.2 81 1.8 82 2.7 84 6.1 85 9.2 86 1.3 87 9.2 88 9.4	1729058304 24094E+11 .8614E+11 79211E+11 18816E+11 18816E+11 18826E+11 42336E+11 .4135E+12 12026E+12 18038E+12 17038E+12 17038E+13 61007E+13 .4151E+13 62265E+14 34339E+13 15097E+13 122265E+14 12643E+14 18965E+14 12643E+14 18965E+14 18965E+14 18965E+14 18965E+14 18965E+14 18965E+14 18965E+14 199267E+15 19901E+15	1.418 1.421 1.425 1.429 1.433 1.436 1.444 1.443 1.447 1.45 1.453 1.456 1.46 1.463 1.466 1.469 1.472 1.475 1.478 1.483 1.486 1.489 1.491 1.494	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87	2.568 2.574 2.579 2.585 2.59 2.596 2.601 2.606 2.611 2.616 2.621 2.625 2.634 2.639 2.643 2.643 2.652 2.656 2.664 2.652 2.668 2.672 2.676 2.668 2.672 2.676 2.688 2.684 2.688	226981 238328 250047 262144 274625 287496 300763 314432 328509 343000 357911 373248 389017 405224 421875 438976 456533 474552 493039 512000 531441 551368 571787 592704 614125 636056 658503	5.931 5.954 5.977 6 6.022 6.044 6.066 6.087 6.109 6.129 6.15 6.17 6.19 6.209 6.229 6.248 6.267 6.285 6.304 6.358 6.375 6.392 6.426 6.426	38468.441 41062.855 43790.445 46656 49664.418 52820.695 56129.938 59597.352 63228.258 67028.078 71002.336 75156.688 79496.867 84028.75 88758.305 93691.617 98834.883 104194.422 109776.664 115588.141 121635.523 127925.594 134465.25 141261.5 148321.484 155652.453 163261.797	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35.174 1.40656E+20 35.452 2.85925E+20 35.728 5.81072E+20 36 1.18059E+21 36.269 2.39808E+21 36.535 4.86994E+21 36.797 9.88745E+21 37.057 2.00701E+22 37.314 4.07304E+22 37.568 8.26414E+22 37.819 1.67644E+23 38.068 3.4001E+23 38.314 6.89466E+23 38.557 1.39782E+24 38.798 2.83342E+24 39.037 5.7424E+24 39.037 5.7424E+24 39.273 1.16359E+25 39.506 2.35741E+25 39.738 4.77526E+25 39.967 9.67141E+25 40.141 8.96528E+26 40.641 8.02727E+26 40.642 1.6248E+27 41.08 3.28828E+27 41.08 3.28828E+27 41.097 6.653938+27

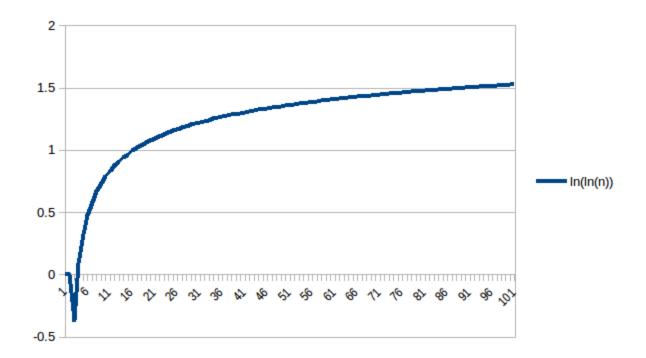
88 3.13351E+15	1.499	88	2.691	681472	6.459	171157.016	2	41.724	2.72347E+28
89 4.70026E+15	1.502	89	2.695	704969	6.476	179345.734	2	41.935	5.50883E+28
90 7.05039E+15	1.504	90	2.699	729000	6.492	187835.703	2	42.144	1.11415E+29
91 1.05756E+16	1.506	91	2.702	753571	6.508	196634.797	2	42.351	2.25305E+29
92 1.58634E+16	1.509	92	2.706	778688	6.524	205751.016	2	42.557	4.55562E+29
93 2.37951E+16	1.511	93	2.709	804357	6.539	215192.5	2	42.761	9.21027E+29
94 3.56926E+16	1.514	94	2.713	830584	6.555	224967.469	2	42.963	1.86186E+30
95 5.35389E+16	1.516	95	2.716	857375	6.57	235084.344	2	43.163	3.76334E+30
96 8.03084E+16	1.518	96	2.719	884736	6.585	245551.625	2	43.362	7.6059E+30
97 1.20463E+17	1.521	97	2.722	912673	6.6	256377.969	2	43.559	1.53703E+31
98 1.80694E+17	1.523	98	2.726	941192	6.615	267572.125	2	43.754	3.10574E+31
99 2.71041E+17	1.525	99	2.729	970299	6.629	279143	2	43.948	6.27487E+31
100 4.06561E+17	1.527	100	2.732	1000000	6.644	291099.656	2	44.141	1.26765E+32

Graphs -

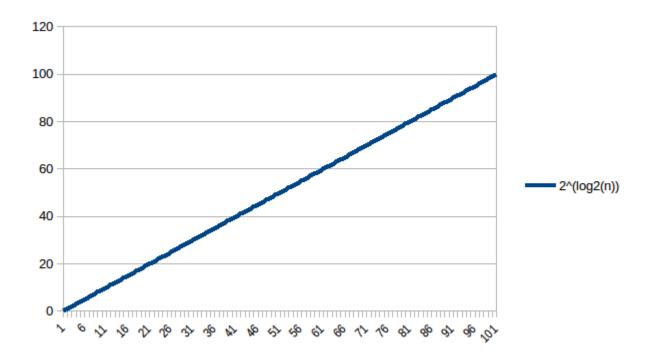
(1) (3/2)ⁿ



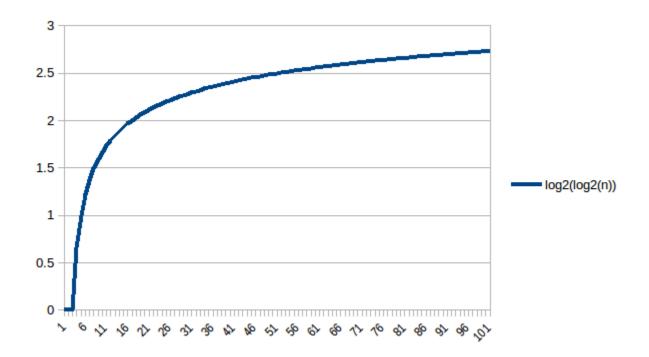
(2) ln(ln(n))



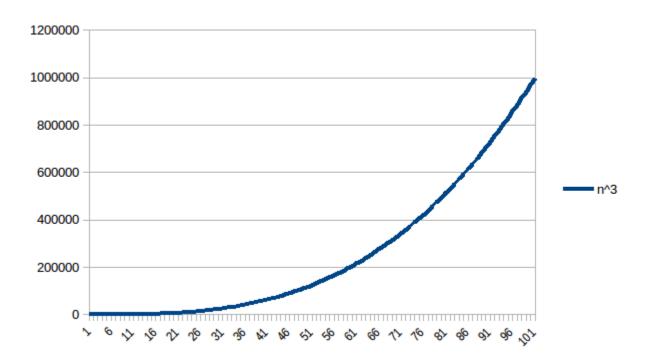
(3) 2^(log2(n))



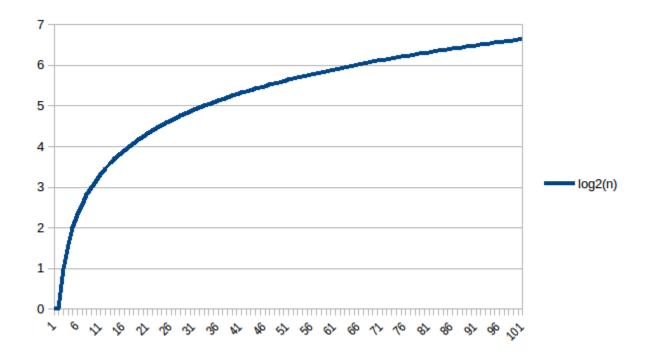
$(4) \log 2(\log 2(n))$



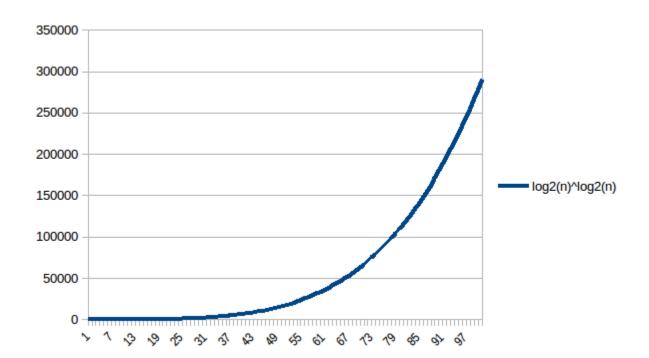
(5) n^3



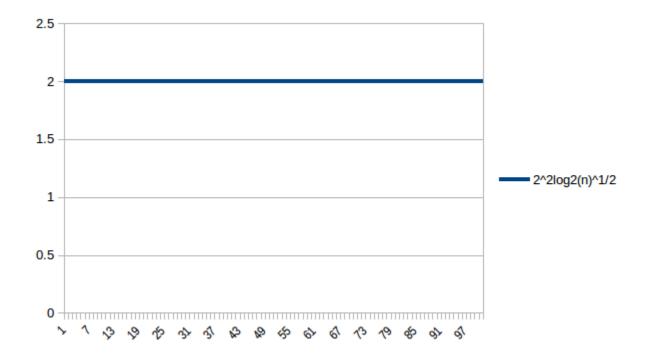
(6) log2(n)



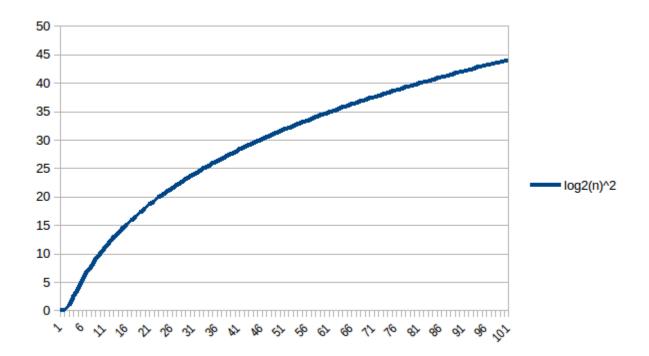
$(7) log2(n)^{\wedge} log2(n)$



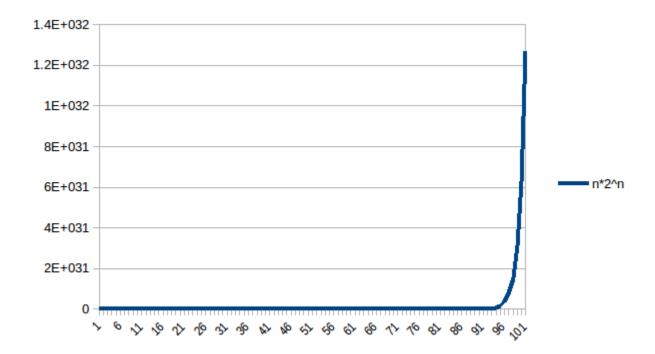
$(8) 2^2 \log_2(n)^2$



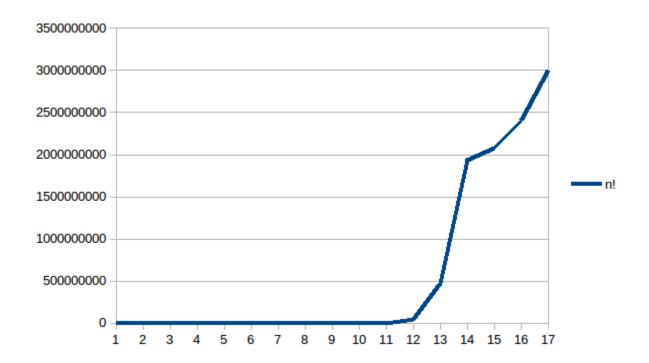
$(9) \log 2(n)^2$



(10) n*2^n



(11) n!



Conclusion -

I have successfully computed the calculations of more than 10 functions, elaborated them for over a hundred values, and visualized them in the form of graphs. What I have learned from this is that some numerical values cannot be stored in programming variables, it is a phenomenon known as buffer overloading. The graphical representation of several functions also helped me visualize the working of several functions and helped me understand how they work conceptually behind the scenes.