

**Number of graphs G on n nodes with  $|\text{Aut}(G)| = \text{groupsize}$**

n = 1

1 graphs : groupsize=1

1 graphs altogether

n = 2

2 graphs : groupsize=2

2 graphs altogether

n = 3

2 graphs : groupsize=2

2 graphs : groupsize=6

4 graphs altogether

n = 4

3 graphs : groupsize=2

2 graphs : groupsize=4

2 graphs : groupsize=6

2 graphs : groupsize=8

2 graphs : groupsize=24

11 graphs altogether

n=5

11 graphs : groupsize=2

6 graphs : groupsize=4

2 graphs : groupsize=6

4 graphs : groupsize=8

1 graphs : groupsize=10  
6 graphs : groupsize=12  
2 graphs : groupsize=24  
2 graphs : groupsize=120

34 graphs altogether

n = 6

8 graphs : groupsize=1  
46 graphs : groupsize=2  
36 graphs : groupsize=4  
8 graphs : groupsize=6  
14 graphs : groupsize=8  
2 graphs : groupsize=10  
18 graphs : groupsize=12  
6 graphs : groupsize=16  
2 graphs : groupsize=24  
2 graphs : groupsize=36  
8 graphs : groupsize=48  
2 graphs : groupsize=72  
2 graphs : groupsize=120  
2 graphs : groupsize=720

156 graphs altogether

n = 7

152 graphs : groupsize=1  
354 graphs : groupsize=2  
248 graphs : groupsize=4  
38 graphs : groupsize=6  
74 graphs : groupsize=8  
2 graphs : groupsize=10  
70 graphs : groupsize=12  
2 graphs : groupsize=14  
20 graphs : groupsize=16  
4 graphs : groupsize=20  
24 graphs : groupsize=24  
6 graphs : groupsize=36  
28 graphs : groupsize=48  
4 graphs : groupsize=72  
2 graphs : groupsize=120  
6 graphs : groupsize=144  
6 graphs : groupsize=240

2 graphs : groupsize=720  
2 graphs : groupsize=5040

1044 graphs altogether

n = 8

3696 graphs : groupsize=1  
4431 graphs : groupsize=2  
2264 graphs : groupsize=4  
252 graphs : groupsize=6  
623 graphs : groupsize=8  
4 graphs : groupsize=10  
446 graphs : groupsize=12  
4 graphs : groupsize=14  
164 graphs : groupsize=16  
12 graphs : groupsize=20  
170 graphs : groupsize=24  
24 graphs : groupsize=32  
22 graphs : groupsize=36  
96 graphs : groupsize=48  
4 graphs : groupsize=60  
2 graphs : groupsize=64  
28 graphs : groupsize=72  
24 graphs : groupsize=96  
6 graphs : groupsize=120  
2 graphs : groupsize=128  
24 graphs : groupsize=144  
8 graphs : groupsize=192  
16 graphs : groupsize=240  
2 graphs : groupsize=384  
2 graphs : groupsize=576  
8 graphs : groupsize=720  
2 graphs : groupsize=1152  
6 graphs : groupsize=1440  
2 graphs : groupsize=5040  
2 graphs : groupsize=40320

12346 graphs altogether

n = 9

135004 graphs : groupsize=1  
89004 graphs : groupsize=2  
4 graphs : groupsize=3  
31754 graphs : groupsize=4

3262 graphs : groupsize=6  
7003 graphs : groupsize=8  
16 graphs : groupsize=10  
3924 graphs : groupsize=12  
4 graphs : groupsize=14  
1280 graphs : groupsize=16  
4 graphs : groupsize=18  
42 graphs : groupsize=20  
1570 graphs : groupsize=24  
8 graphs : groupsize=28  
176 graphs : groupsize=32  
164 graphs : groupsize=36  
12 graphs : groupsize=40  
660 graphs : groupsize=48  
12 graphs : groupsize=60  
12 graphs : groupsize=64  
179 graphs : groupsize=72  
4 graphs : groupsize=80  
202 graphs : groupsize=96  
26 graphs : groupsize=120  
4 graphs : groupsize=128  
78 graphs : groupsize=144  
24 graphs : groupsize=192  
4 graphs : groupsize=216  
70 graphs : groupsize=240  
52 graphs : groupsize=288  
4 graphs : groupsize=384  
6 graphs : groupsize=432  
18 graphs : groupsize=480  
6 graphs : groupsize=576  
22 graphs : groupsize=720  
8 graphs : groupsize=960  
4 graphs : groupsize=1152  
2 graphs : groupsize=1296  
16 graphs : groupsize=1440  
6 graphs : groupsize=2880  
6 graphs : groupsize=4320  
2 graphs : groupsize=5040  
6 graphs : groupsize=10080  
2 graphs : groupsize=40320  
2 graphs : groupsize=362880

274668 graphs altogether

n = 10

7971848 graphs : groupsize=1  
3026014 graphs : groupsize=2  
56 graphs : groupsize=3  
710574 graphs : groupsize=4  
71362 graphs : groupsize=6  
117914 graphs : groupsize=8  
136 graphs : groupsize=10  
54510 graphs : groupsize=12  
8 graphs : groupsize=14  
16346 graphs : groupsize=16  
8 graphs : groupsize=18  
250 graphs : groupsize=20  
19844 graphs : groupsize=24  
24 graphs : groupsize=28  
2250 graphs : groupsize=32  
1550 graphs : groupsize=36  
84 graphs : groupsize=40  
6284 graphs : groupsize=48  
36 graphs : groupsize=60  
252 graphs : groupsize=64  
1372 graphs : groupsize=72  
16 graphs : groupsize=80  
8 graphs : groupsize=84  
1760 graphs : groupsize=96  
246 graphs : groupsize=120  
30 graphs : groupsize=128  
634 graphs : groupsize=144  
240 graphs : groupsize=192  
2 graphs : groupsize=200  
38 graphs : groupsize=216  
426 graphs : groupsize=240  
8 graphs : groupsize=256  
386 graphs : groupsize=288  
2 graphs : groupsize=320  
58 graphs : groupsize=384  
20 graphs : groupsize=432  
134 graphs : groupsize=480  
30 graphs : groupsize=576  
80 graphs : groupsize=720  
6 graphs : groupsize=768  
18 graphs : groupsize=864  
24 graphs : groupsize=960  
36 graphs : groupsize=1152

4 graphs : groupsize=1200  
4 graphs : groupsize=1296  
110 graphs : groupsize=1440  
8 graphs : groupsize=1728  
8 graphs : groupsize=2304  
34 graphs : groupsize=2880  
2 graphs : groupsize=3840  
16 graphs : groupsize=4320  
6 graphs : groupsize=5040  
8 graphs : groupsize=5760  
16 graphs : groupsize=10080  
2 graphs : groupsize=14400  
6 graphs : groupsize=17280  
2 graphs : groupsize=28800  
6 graphs : groupsize=30240  
2 graphs : groupsize=40320  
6 graphs : groupsize=80640  
2 graphs : groupsize=362880  
2 graphs : groupsize=3628800

12005168 graphs altogether

n = 11

805364776 graphs : groupsize=1  
179282248 graphs : groupsize=2  
472 graphs : groupsize=3  
26501530 graphs : groupsize=4  
2626418 graphs : groupsize=6  
3079400 graphs : groupsize=8  
1700 graphs : groupsize=10  
1251414 graphs : groupsize=12  
32 graphs : groupsize=14  
307286 graphs : groupsize=16  
8 graphs : groupsize=18  
2072 graphs : groupsize=20  
6 graphs : groupsize=22  
366688 graphs : groupsize=24  
84 graphs : groupsize=28  
31294 graphs : groupsize=32  
22402 graphs : groupsize=36  
760 graphs : groupsize=40  
92808 graphs : groupsize=48  
24 graphs : groupsize=56  
200 graphs : groupsize=60  
2832 graphs : groupsize=64

16174 graphs : groupsize=72  
132 graphs : groupsize=80  
24 graphs : groupsize=84  
21714 graphs : groupsize=96  
2 graphs : groupsize=100  
8 graphs : groupsize=112  
3238 graphs : groupsize=120  
212 graphs : groupsize=128  
6578 graphs : groupsize=144  
28 graphs : groupsize=160  
2968 graphs : groupsize=192  
4 graphs : groupsize=200  
320 graphs : groupsize=216  
3714 graphs : groupsize=240  
24 graphs : groupsize=256  
3008 graphs : groupsize=288  
4 graphs : groupsize=320  
8 graphs : groupsize=336  
12 graphs : groupsize=360  
404 graphs : groupsize=384  
218 graphs : groupsize=432  
1352 graphs : groupsize=480  
550 graphs : groupsize=576  
558 graphs : groupsize=720  
28 graphs : groupsize=768  
182 graphs : groupsize=864  
222 graphs : groupsize=960  
250 graphs : groupsize=1152  
12 graphs : groupsize=1200  
4 graphs : groupsize=1296  
712 graphs : groupsize=1440  
24 graphs : groupsize=1728  
48 graphs : groupsize=1920  
32 graphs : groupsize=2304  
8 graphs : groupsize=2592  
188 graphs : groupsize=2880  
18 graphs : groupsize=3456  
4 graphs : groupsize=3840  
72 graphs : groupsize=4320  
26 graphs : groupsize=5040  
76 graphs : groupsize=5760  
8 graphs : groupsize=6912  
4 graphs : groupsize=7200  
52 graphs : groupsize=8640  
66 graphs : groupsize=10080  
6 graphs : groupsize=14400

16 graphs : groupsize=17280  
18 graphs : groupsize=20160  
4 graphs : groupsize=28800  
16 graphs : groupsize=30240  
14 graphs : groupsize=40320  
16 graphs : groupsize=80640  
6 graphs : groupsize=86400  
6 graphs : groupsize=120960  
6 graphs : groupsize=241920  
2 graphs : groupsize=362880  
6 graphs : groupsize=725760  
2 graphs : groupsize=3628800  
2 graphs : groupsize=39916800

1018997864 graphs altogether

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