Rank of a magic square.

20

15

10

5

size 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
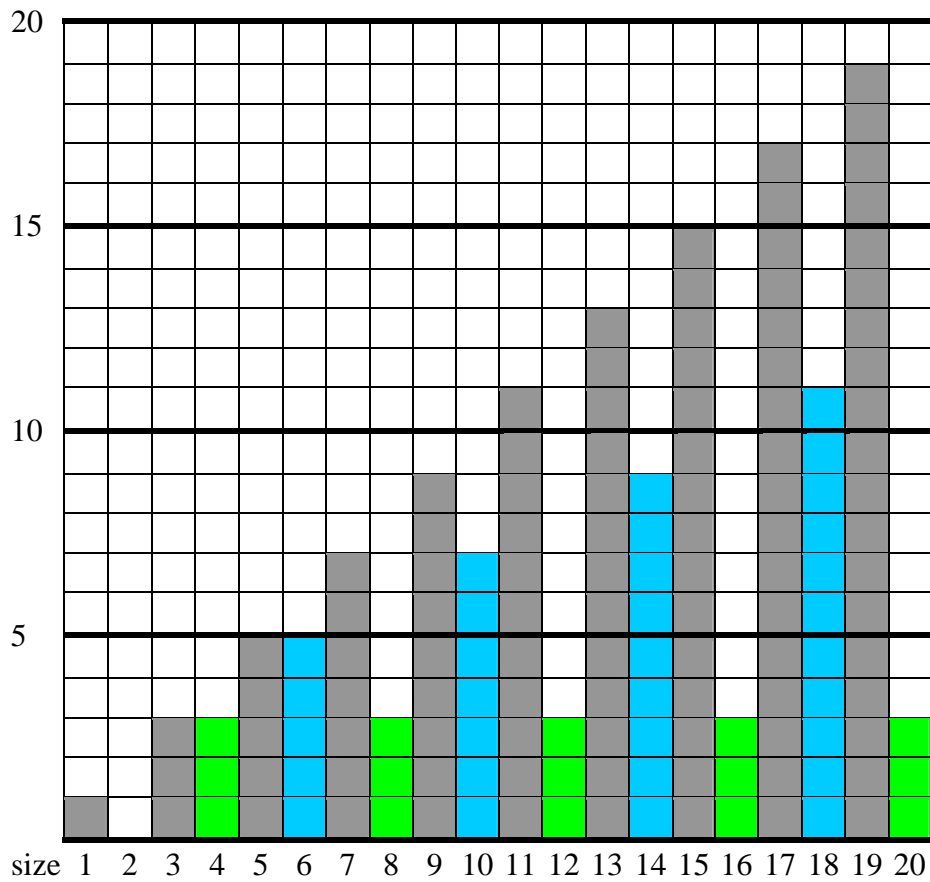
The rank of a magic square, as shown on chart:

if odd size x, then rank is x
if doubly even x, then rank is 3
if singly even x, then rank is ½ x + 2