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The Virtual Learning Environment for Computer Programming

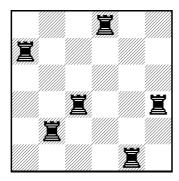
Aggressive rooks

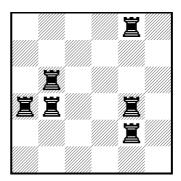
P94143_en

Primer Concurs de Programació de la FME (2004-04-29)

Consider a chessboard with n rows and n columns. In how many ways can we place n rooks so that at least two rooks threaten each other?

For instance, these are two of the ways for n = 6:





Input

Input consists of several numbers $1 \le n \le 6$. A special case with n = 0 marks the end of input.

Output

For every n, print the number of different ways to place n rooks on a chessboard $n \times n$ so that at least two rooks threaten each other. For every $1 \le n \le 6$, this number has less than 10 digits.

Sample input	Sample output
2	4
3	78
0	

Problem information

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