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The Virtual Learning Environment for Computer Programming

## Aggressive rooks

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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 $1 \leq n \leq 6$. 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 $1 \leq n \leq 6$, this number has less than 10 digits.

## Sample input

2
3
0

## Problem information

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