## 11305 Chess on Planet X

Chess on Planet X is very different from chess on Earth. It has a piece called the Super Queen, which can move and attack as a knight, a rook, and a bishop at the same time. Howevever its powerful attack can be blocked with a Pawn, just like chess on Earth. Given an $(n-k) \times(n-k)$ chessboard, count the number of ways of placing $n$ Super Queens and $k$ pawns on it, such that none of the Super Queens are attacking each other.

## Input

There is a number of inputs. Each input is $n(n<19)$ and $k(k<6)$ on a single line.

## Output

For each input, output the number of ways on a single line.

## Sample Input

131
184

## Sample Output

72
16

