## THE BLACK AND WHITE QUEENS

Subru and Shanmu are playing Chess. Shanmu wonder about queens. So he asked Subru the following question
"How many ways are there to place a black and a white Queen on an $M \times N$ chessboard such that they do not attack each other? The queen can be moved any number of unoccupied squares in a straight line vertically, horizontally, or diagonally."

Subru gave the answer in seconds for a given chess board of size $M \times N(M<=N)$. Can you repeat the same with your code?

## Input Format:

The first line contains the integer " $t$ " which indicates the number of test cases. Each of the following $t$ lines contains two integers $M$ and $N$ separated by spaces ( $M<=N$ ).

## Output Format:

Output for each case consists of one line: The number of ways of placing a black and a white queen on a $\mathrm{M} \times \mathrm{N}$ chess board such that they do not attack each other.

Constraints: $T<=10000,2<=M<=10^{\wedge} 10,2<=N<=10^{\wedge} 10$. And $M<=N$.

## Sample Input:

3
55
34
22

## Sample Output:

280
40
0

