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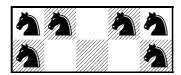
The Virtual Learning Environment for Computer Programming

Pacific knights

P27960_en

Vint-i-unè Concurs de Programació de la UPC - Semifinal (2023-06-28)

Given an $n \times m$ chess board, how many knights can we place on it so that no two knights threaten each other? For instance, we can place six knights on a 2 \times 5 board:



Input

Input consists of several cases, each with n and m, both between 1 and 10^4 .

Output

For every case, print the maximum number of knights that we can place on an $n \times m$ chess board without any threats.

Sample input	Sample output
2 5	6
1 1	1
4 1	4
3 5	8

Problem information

Author: Salvador Roura

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