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The Virtual Learning Environment for Computer Programming

## Pacific knights <br> 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

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