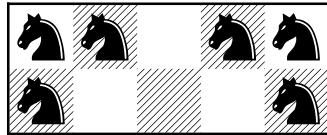


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**Pacific knights****P27960\_en**

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 1**

```
2 5
1 1
4 1
3 5
```

**Sample output 1**

```
6
1
4
8
```

**Problem information**

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