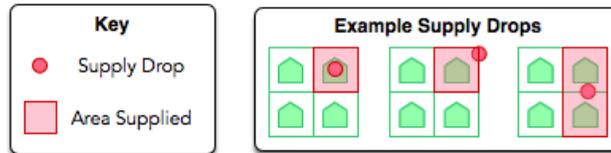


Army Game

Luke is daydreaming in Math class. He has a sheet of graph paper with n rows and m columns, and he imagines that there is an army base in each cell for a total of $n \cdot m$ bases. He wants to drop supplies at strategic points on the sheet, marking each drop point with a red dot. If a base contains at least one package inside or on top of its border fence, then it's considered to be supplied. For example:



Given n and m , what's the minimum number of packages that Luke must drop to supply all of his bases?

Example

$n = 2$
 $m = 3$

Packages can be dropped at the corner between cells $(0, 0)$, $(0, 1)$, $(1, 0)$ and $(1, 1)$ to supply 4 bases. Another package can be dropped at a border between $(0, 2)$ and $(1, 2)$. This supplies all bases using 2 packages.

Function Description

Complete the `gameWithCells` function in the editor below.

`gameWithCells` has the following parameters:

- *int n*: the number of rows in the game
- *int m*: the number of columns in the game

Returns

- *int*: the minimum number of packages required

Input Format

Two space-separated integers describing the respective values of n and m .

Constraints

$$0 < n, m \leq 1000$$

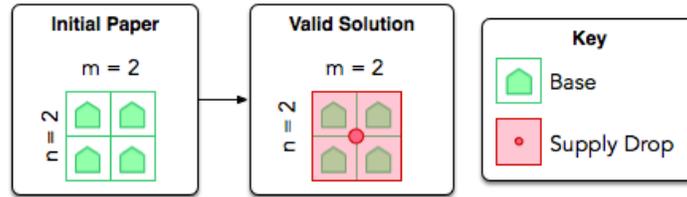
Sample Input 0

```
2 2
```

Sample Output 0

Explanation 0

Luke has four bases in a 2×2 grid. If he drops a single package where the walls of all four bases intersect, then those four cells can access the package:



Because he managed to supply all four bases with a single supply drop, we print **1** as our answer.