Army Game

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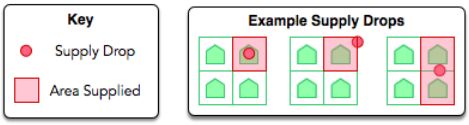
Problem Submissions Leaderboard Discussions

Your submission will run against only preliminary test cases. Full test cases will run at the end of the day.

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?

Input Format

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

Constraints

- $0 < n, m \leq 1000$

Output Format

Print a single integer denoting the minimum number of supply packages Luke must drop.

Sample Input 0

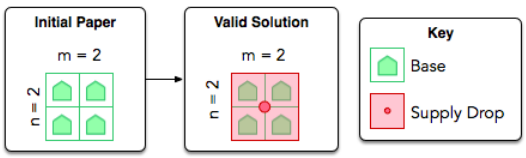
```
2 2
```

Sample Output 0

```
1
```

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.

Contest ends in 5 days

Submissions: 4143
Max Score: 9
Difficulty: Easy

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Current Buffer (saved locally, editable) C#

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
class Solution {

    static void Main(String[] args) {
        string[] tokens_n = Console.ReadLine().Split(' ');
        int n = Convert.ToInt32(tokens_n[0]);
        int m = Convert.ToInt32(tokens_n[1]);

        if (n % 2 == 0)
            {
                n -= 2;
            }
            else if (n % 2 != 0)
            {
                n--;
            }
            if (n == 0)
            {
                n = 1;
            }
            if (m % 2 == 0)
            {
                m -= 2;
            }
            else if (m % 2 != 0)
            {
                m--;
            }
            if (m == 0)
            {
                m = 1;
            }

            Console.WriteLine(n * m);

    }
}

```

Line: 37 Col: 38

Upload Code as File Test against custom input Run Code Submit Code