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COMPETE

JOBS

LEADERBOARD

Search



kenkthejesh ▾

[All Contests](#) > [Code-It-On](#) > [Freddy The Frog](#)

# Freddy The Frog

Problem

Submissions

Leaderboard

Discussions

Freddy the frog was born with a disability that only allowed him to jump forward vertically and horizontally. One day, while Freddy stood in a cell of a chessboard of size  $n \times m$ . He can jump as many times as he wants to but each jump will move him a distance of 's'. He decides to calculate the maximum number of cells he can reach from a starting position (x,y) and then the number of of starting positions through which he could reach the same number of cells. Help him calculate the number of starting positions that give him the maximum reachability.

## Input Format

Three integers  $n, m, s$  — length of the board, width of the board and length of the flea's jump

## Constraints

1.  $1 \leq n$
2.  $1 \leq m$
3.  $s \leq 10^6$

## Output Format

A single integer - The number of starting positions

## Sample Input 0

```
3 3 2
```

## Sample Output 0

```
4
```

## Explanation 0

0	1	2
3	4	5
6	7	8

With a jump distance of 2, Freddy can reach a maximum of 4 cells starting from any one of the 4 corners  $6 \rightarrow 0 \rightarrow 1 \rightarrow 2 \rightarrow 8 \rightarrow 6 \Rightarrow 4$

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Contest ends in 19 hours

Submissions: 34

Max Score: 100

Difficulty: Medium

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C



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1

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