

Triangles

[English](#)

[Vietnamese](#)

In the plane, given a rectangular grid with sides parallel to the axes of coordinates. The coordinates of the bottom-left corner is $(0, 0)$ and the top-right corner is (X, Y) .

Your task is to count the number of triangles with integer coordinates lying inside the given grid and having areas equal to an integer S .

Input

A single line consisting of three integers: X, Y, S ($1 \leq X, Y \leq 30, 1 \leq S \leq X*Y/2$).

Output

A single integer: the number of triangles with integer coordinates lying inside the rectangular grid and having areas equal to S .

Constraint

There are 50% of the test cases, corresponding to 50% of the grades, in which $1 \leq X, Y \leq 10$.

Example

Input

2 1 1

Output

6

□