

A. Theatre Square

time limit per test: 1 second
 memory limit per test: 256 megabytes
 input: standard input
 output: standard output

Theatre Square in the capital city of Berland has a rectangular shape with the size $n \times m$ meters. On the occasion of the city's anniversary, a decision was taken to pave the Square with square granite flagstones. Each flagstone is of the size $a \times a$.

What is the least number of flagstones needed to pave the Square? It's allowed to cover the surface larger than the Theatre Square, but the Square has to be covered. It's not allowed to break the flagstones. The sides of flagstones should be parallel to the sides of the Square.

Input

The input contains three positive integer numbers in the first line: n , m and a ($1 \leq n, m, a \leq 10^9$).

Output

Write the needed number of flagstones.

Examples

| input | Copy |
|--------|------|
| 6 6 4 | |
| output | Copy |
| 4 | |

Codeforces Beta Round 1

Finished

Practice



→ Virtual participation

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Clone Contest

→ Submit?

Language: GNU GCC C11 5.1.0

Choose file: No file chosen

Submit

→ Problem tags

math *1000

No tag edit access

→ Contest materials

• Tutorial (en)

