

### A. Packing Rectangles

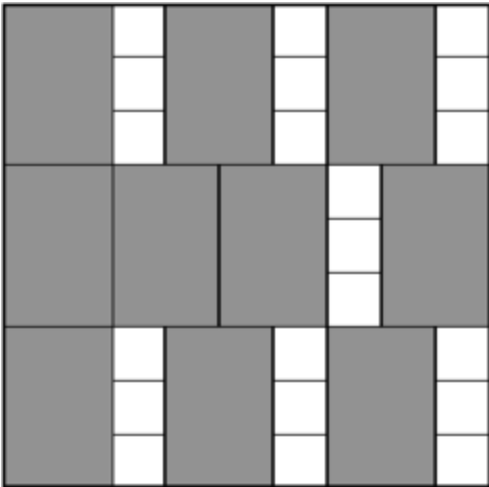
time limit per test: 2 seconds

memory limit per test: 512 megabytes

input: standard input

output: standard output

There are  $n$  rectangles of the same size:  $w$  in width and  $h$  in length. It is required to find a square of the smallest size into which these rectangles can be packed. Rectangles cannot be rotated.



#### Input

The input contains three integers  $w, h, n$  ( $1 \leq w, h, n \leq 10^9$ ).

#### Output

Output the minimum length of a side of a square, into which the given rectangles can be packed.

#### Example

input	Copy
2 3 10	
output	Copy
9	

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

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