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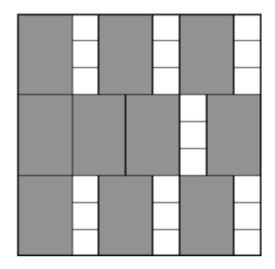
STEP 1 STEP 2 STEP 3 STEP 4 STEP 5 | THEORY PRACTICE | SUBMIT SUBMISSIONS HACKS STANDINGS CUSTOM INVOCATION ITMO Academy: pilot course » Binary Search » Step 2 » Practice

## 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 ( $1 \le w, h, n \le 10^9$ ).

## **Output**

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

## Example



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