

# Task: STO

## Table

UFAM Workshop, contest #2. Source file sto.\* Available memory: 128 MB.

Byteasar is buying furniture on the Internet. He has found a nice table and a set of chairs. Now he wonders how many chairs he can buy, so that all the chairs can fit around the table.

The table top has a shape of a rectangle of size  $A \times B$  centimeters. On the other hand, the seat of the chair, when looking from the top, is a square of size  $K \times K$  centimeters. We can just treat a table as a rectangle and chairs as squares.

On one side of the chair (square) there is a back of the chair. Each chair must be placed in such a way that its back must touch the table. Moreover, the whole seat of the chair must be under the table. Of course, no two chairs can overlap. We ignore here the legs of the table (we can assume that they are infinitely thin and are located in the corners of the table top). How many chairs can Byteasar fit under the table?

### Input

In the only line of the input there are three integers  $A$ ,  $B$  and  $K$  ( $1 \leq A, B, K \leq 500\,000\,000$ ), specifying the sizes of the table top and the size of the seat.

### Output

Your program must output one integer – maximal number of chairs that can fit around the table.

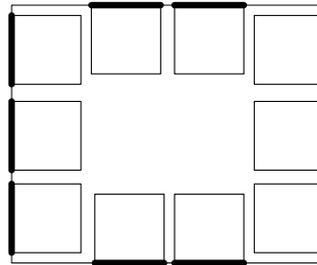
### Example

For the input data:

15 18 4

the correct answer is:

10



**Explanation:** The figure shows the placement of the chairs around the table. The backs are drawn with thick segments. It is not possible to fit 11 chairs under the table.

Whereas for the input data:

12 8 4

the correct answer is:

6