







# OLIMPIADA DE INFORMATICĂ ÎN ECHIPE

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#### adun

Ionel received an interesting problem at the maths class. He was given two natural number X and Y and he has to determine a natural number so that the smallest common multiple of the numbers X+K and Y+K should be minimum.

#### Task

Determine the value of K so that the smallest common multiple of the numbers X+K and Y+K should be minimum.

# Input data

The standard input contains, on the first line, the natural numbers X and Y separated by a space.

## **Output data**

The standard output contains, on the first line, the value K.

## **Constraints and specifications**

- X and Y are natural numbers smaller than 1 000 000 001.
- If there are more values **K** for which the smallest common multiple of the numbers **X+K** and **Y+K** is minimum, the minimum value K will be printed.

### Example

input	output	explanation
6 14	2	<b>K=2,</b> the smallest common multiple is <b>16</b>

**Execution time: 0.1 s/test** 

Memory 2 MB.