## AP or NOT

A triplet ( $x, y, z$ ) is called an arithmetic progression if the equality $y-x=z-y$ holds. You are given three ints $a, b$ and $c$. Your goal is to change the triple ( $a, b, c$ ) into an arithmetic progression. You are only allowed to change one of the three numbers. The change must proceed as follows: First, you choose a non-negative real (not necessarily integer) number r. Then, you either add $r$ to one of the three given numbers, or you subtract $r$ from one of them. Return the minimum value of $r$ which allows you to create an arithmetic progression

## Input

Input contains three integers in each line.input is terminated when all the three numbers are zero . All the integers are less than equal to $10^{\wedge} 18$.

## Output

Output contains 1 real number denoting the minimum change required to make the sequence an AP.output must b rounded to 1 digit after the decimal.

## Example

## Input:

448
000
Output:
2.0

