

## A. The New Year: Meeting Friends

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

There are three friend living on the straight line  $Ox$  in Lineland. The first friend lives at the point  $X_1$ , the second friend lives at the point  $X_2$ , and the third friend lives at the point  $X_3$ . They plan to celebrate the New Year together, so they need to meet at one point. What is the minimum total distance they have to travel in order to meet at some point and celebrate the New Year?

It's guaranteed that the optimal answer is always integer.

### Input

The first line of the input contains three **distinct** integers  $X_1$ ,  $X_2$  and  $X_3$  ( $1 \leq X_1, X_2, X_3 \leq 100$ ) — the coordinates of the houses of the first, the second and the third friends respectively.

### Output

Print one integer — the minimum total distance the friends need to travel in order to meet together.

### Examples

<b>input</b>
7 1 4
<b>output</b>
6

<b>input</b>
30 20 10
<b>output</b>
20

### Note

In the first sample, friends should meet at the point 4. Thus, the first friend has to travel the distance of 3 (from the point 7 to the point 4), the second friend also has to travel the distance of 3 (from the point 1 to the point 4), while the third friend should not go anywhere because he lives at the point 4.

### Codeforces Round #375 (Div. 2)

Finished

### → Virtual participation

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Start virtual contest

### → Problem tags

sortings

No tag edit access

### → Contest materials

- Announcement 
- Tutorial 