

M. 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

input	Copy
7 1 4	
output	Copy
6	

input	Copy
30 20 10	
output	Copy
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.

Assiut University Training - Newcomers

Public

Participant

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→ About Group



ICPC Assiut community

[Group website](#)

→ Group Contests

- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math - Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type - Conditions)

Sheet #8 (General easy)

Finished

Practice

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→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the [link](#).