

All Tracks > Basic Programming > Input/Output > > Problem

BOOKMARK

Arithmetic Progression

Attempted by: 1384 / Accuracy: 68% / Maximum Points: 20 / ★★★☆ 43 Votes /

Math

PROBLEM

EDITORIAL

MY SUBMISSIONS

ANALYTICS

DISCUSSIONS

You will be given three numbers A,B,C .You can perform the following operation on these numbers any number of times. You can take any integer from A, B, C and you can add or substract 1 from it.

Each operation cost 1sec of time(say). Now you have to determine the minimum time required to change those numbers into an Arithmetic Progression.

i.e B-A=C-B

Input:

First line of input contains T denoting number of test cases.

Next T lines contains space seperated integers A,B,C

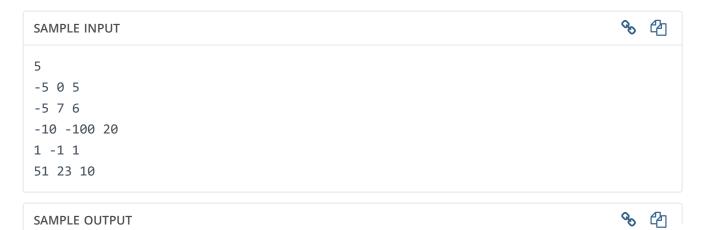
Output:

For each test case, print a single line containing one integer — the minimum time require to change A,B,C into an arithmetic progression.

Constraints:

$$1 <= T <= 100000$$

$$-10^8 <= A, B, C <= 10^8$$



0		
7		
105		
2		
8		

Explanation

Example case 1: No operations are needed because 0-(-5) = 5-0.

Example case 2: We can obtain an arithmetic progression in seven operations by adding 1 to A = -5 and subtracting 1 six times from $\mathbf{B} = 7$.

Example case 3: We should add 1 to B 105 times.

Time Limit:	0.5 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB

BEST SUBMISSION



SIMILAR PROBLEMS



CONTRIBUTORS











English 🗸