

time limit per test: 2 seconds  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

The distance between points  $a$  and  $b$  is equal to  $|a - b|$ . For example, the distance between points  $a = 5$  and  $b = 2$  is 3.

Each test consists of multiple test cases. The first line contains a single integer  $t$  ( $1 \leq t \leq 10^3$ ) — the number of test cases. Then follows their descriptions.

The single line of each test case contains three integers  $x_1, x_2$ , and  $x_3$  ( $1 \leq x_i \leq 10$ ) — the coordinates of the points.

For each test case, output the smallest value of  $f(a)$ .

```
input
8
1 1 1
1 5 9
8 2 8
10 9 3
2 1 1
2 4 1
7 3 5
1 9 4

output
0
8
6
7
1
3
4
8
```

In the first test case, the smallest value of  $f(a)$  is achieved when  $a = 1$ :  $f(1) = |1 - 1| + |1 - 1| + |1 - 1| = 0$ .

In the second test case, the smallest value of  $f(a)$  is achieved when  $a = 5$ :  $f(5) = |1 - 5| + |5 - 5| + |9 - 5| = 8$ .

In the third test case, the smallest value of  $f(a)$  is achieved when  $a = 8$ :  $f(8) = |8 - 8| + |2 - 8| + |8 - 8| = 6$ .

In the fourth test case, the smallest value of  $f(a)$  is achieved when  $a = 9$ :  $f(9) = |10 - 9| + |9 - 9| + |3 - 9| = 7$ .

### Finished

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

brute force geometry math sortings

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No tag edit access

- Announcement
- Tutorial #1 (en)
- Tutorial #2

