15/11/2017 HackerRank



# Sherlock and MiniMax



Problem Submissions Leaderboard Discussions Editorial €

## Русский \| 中文

Watson gives Sherlock an array  $A_1, A_2...A_N$ .

He asks him to find an integer M between P and Q(both inclusive), such that,  $min \{|A_i-M|, 1 \le i \le N\}$  is maximised. If there are multiple solutions, print the smallest one.

## **Input Format**

The first line contains *N*. The next line contains space separated *N* integers, and denote the array *A*. The third line contains two space separated integers denoting *P* and *Q*.

## **Constraints**

 $1 \le N \le 10^2$   $1 \le A_i \le 10^9$  $1 \le P \le Q \le 10^9$ 

# **Output Format**

In one line, print the required answer.

## Sample Input

3 5 8 14 4 9

## **Sample Output**

4

## **Explanation**

For M = 4,6,7, or 9, the result is 1. Since we have to output the smallest of the multiple solutions, we print 4.

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```
1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 ₹
        public static void main(String[] args) {
10 ▼
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11
12 }
                                                                                                                  Line: 1 Col: 1
1 Upload Code as File
                      Test against custom input
                                                                                                      Run Code
                                                                                                                   Submit Code
```

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