# ge!

# Compare the Triplets ★

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## RATE THIS CHALLENGE



Alice and Bob each created one problem for HackerRank. A reviewer rates the two challenges, awarding points on a scale from 1 to 100 for three categories: problem clarity, originality, and difficulty.

The rating for Alice's challenge is the triplet a = (a[0], a[1], a[2]), and the rating for Bob's challenge is the triplet b = (b[0], b[1], b[2]).

The task is to find their comparison points by comparing a[0] with b[0], a[1] with b[1], and a[2] with b[2].

- If a[i] > b[i], then Alice is awarded 1 point.
- If a[i] < b[i], then Bob is awarded 1 point.
- If a[i] = b[i], then neither person receives a point.

Comparison points is the total points a person earned.

Given a and b, determine their respective comparison points.

#### Example

a = [1, 2, 3]

b = [3, 2, 1]

- For elements \*O\*, Bob is awarded a point because a[0] .
- For the equal elements a[1] and b[1], no points are earned.
- Finally, for elements 2, a[2] > b[2] so Alice receives a point.

The return array is [1, 1] with Alice's score first and Bob's second.

## **Function Description**

Complete the function compareTriplets in the editor below.

compareTriplets has the following parameter(s):

- int a[3]: Alice's challenge rating
- int b[3]: Bob's challenge rating

#### Return

• int[2]: Alice's score is in the first position, and Bob's score is in the second.

## Input Format

The first line contains 3 space-separated integers, a[0], a[1], and a[2], the respective values in triplet a.

The second line contains 3 space-separated integers, b[0], b[1], and b[2], the respective values in triplet b.

## Constraints

- 1 ≤ a[i] ≤ 100
- 1 ≤ b[i] ≤ 100

# Sample Input 0

567

3 6 10

#### Sample Output 0

11

#### **Explanation 0**

```
In this example:
```

```
• a = (a[0], a[1], a[2]) = (5, 6, 7)
```

• b = (b[0], b[1], b[2]) = (3, 6, 10)

Now, let's compare each individual score:

- a[0] > b[0], so Alice receives 1 point.
- a[1] = b[1], so nobody receives a point.
- a[2] < b[2], so Bob receives 1 point.

Alice's comparison score is 1, and Bob's comparison score is 1. Thus, we return the array [1,1].

#### Sample Input 1

17 28 30 99 16 8

#### Sample Output 1

21

#### Explanation 1

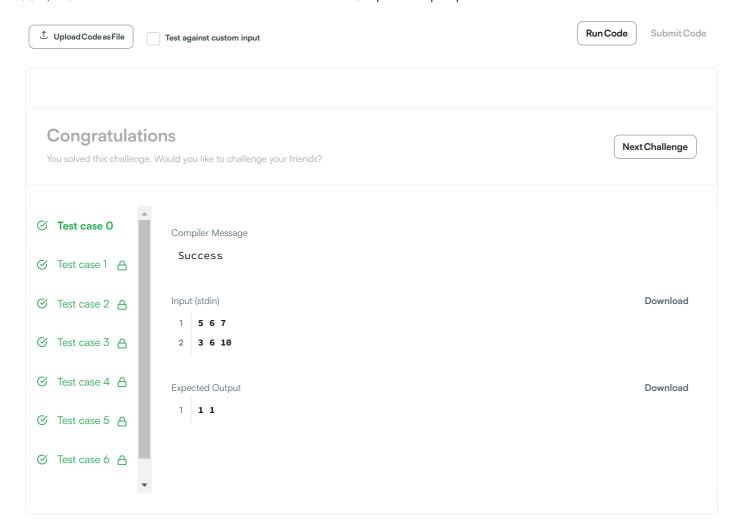
Comparing the  $0^{th}$  elements, 17 < 99 so Bob receives a point.

Comparing the  $\mathbf{1}^{st}$  and  $\mathbf{2}^{nd}$  elements,  $\mathbf{28} > \mathbf{16}$  and  $\mathbf{30} > \mathbf{8}$  so Alice receives two points.

The return array is [2,1].

```
Change Theme
                                                                 Language C++20
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0
9
      * Complete the 'compareTriplets' function below.
10
11
      \star The function is expected to return an INTEGER_ARRAY.
12
      * The function accepts following parameters:
13
      * 1. INTEGER_ARRAY a
14
15
         2. INTEGER_ARRAY b
16
17
18
     vector<int> compareTriplets(vector<int> a, vector<int> b) {
19
         vector<int> Answer(2,0);
20
         for(int i = 0 ; i < a.size() ; i++) {</pre>
21
             if(a[i] > b[i]) {
22
23
                 Answer[0]++;
24
25
             else if(a[i] < b[i]) {
26
                 Answer[1]++;
27
28
29
30
31
         return Answer;
32
     }
33
34
     int main()
35
         ofstream fout(getenv("OUTPUT_PATH"));
36
37
38
         string a_temp_temp;
```

Line: 119 Col: 1



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