

# Compare the Triplets ☆

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## Problem

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## Editorial

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*.

We define the rating for Alice's challenge to be the triplet  $\mathbf{a} = (a[0], a[1], a[2])$ , and the rating for Bob's challenge to be the triplet  $\mathbf{b} = (b[0], b[1], b[2])$ .

Your 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  $\mathbf{a}$  and  $\mathbf{b}$ , determine their respective comparison points.

For example,  $\mathbf{a} = [1, 2, 3]$  and  $\mathbf{b} = [3, 2, 1]$ . For elements **0**, Bob is awarded a point because  $a[0] < b[0]$ . 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. Your return array would be  $[1, 1]$  with Alice's score first and Bob's second.

### Function Description

Complete the function `compareTriplets` in the editor below. It must return an array of two integers, the first being Alice's score and the second being Bob's.

`compareTriplets` has the following parameter(s):

- $a$ : an array of integers representing Alice's challenge rating
- $b$ : an array of integers representing Bob's challenge rating

### Input Format

The first line contains **3** space-separated integers,  $a[0]$ ,  $a[1]$ , and  $a[2]$ , describing the respective values in triplet  $\mathbf{a}$ .

The second line contains **3** space-separated integers,  $b[0]$ ,  $b[1]$ , and  $b[2]$ , describing the respective values in triplet  $\mathbf{b}$ .

### Constraints

- $1 \leq a[i] \leq 100$
- $1 \leq b[i] \leq 100$



**Output Format**

Return an array of two integers denoting the respective comparison points earned by Alice and Bob.

**Sample Input 0**

```
5 6 7
3 6 10
```

**Sample Output 0**

```
1 1
```

**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**

```
2 1
```

**Explanation 1**

Comparing the **0<sup>th</sup>** elements, **17 < 99** so Bob receives a point.

Comparing the **1<sup>st</sup>** and **2<sup>nd</sup>** elements, **28 > 16** and **30 > 8** so Alice receives two points.

The return array is **[2, 1]**.

Current Buffer (saved locally, editable) 🔗 ↺

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
```

```
6 import re
7 import sys
8
9 # Complete the compareTriplets function below.
10 def compareTriplets(a, b):
11     def compare_sum(tuple_):
12         return sum([x>y for x, y in zip(*tuple_)])
13
14     return map(compare_sum, ((a,b), (b,a)))
15
16     '''
17     a_count = 0
18     b_count = 0
19     a_ = a
20     b_ = b
21     for i, j in zip(a_,b_):
22         #print(a_, b_)
23
24         if i == j :
25             #print(i, j, "equal")
26             continue
27         elif i>j:
28             #print(i, j, "greater")
29             a_count=a_count + 1
30         else:
31             #print(i,j, "smaller")
32             b_count=b_count +1
33     return a_count, b_count
34
35
36 if __name__ == '__main__':
37     fptr = open(os.environ['OUTPUT_PATH'], 'w')
38
39     a = list(map(int, input().rstrip().split()))
40
41     b = list(map(int, input().rstrip().split()))
42
43     result = compareTriplets(a, b)
44
45     fptr.write(' '.join(map(str, result)))
46     fptr.write('\n')
47
48     fptr.close()
49
```

Line: 12 Col: 23

☒ Upload Code as File ☐ Test against custom input

Run Code

Submit Code

## Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0 Sample Test case 1 

Input (stdin)

[Download](#)

```
5 6 7
3 6 10
```

Your Output (stdout)

**1 1**

Expected Output

**1 1**[Download](#)[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)