



# Compare the Triplets ★

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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 calculate their comparison points by comparing each category:

- 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.

## Example

 $a = [1, 2, 3]$  $b = [3, 2, 1]$ 

- For elements  $a[0]$ , 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  $a[2]$ ,  $a[2] > b[2]$  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` with the following parameter(s):

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

## Returns

- `int[2]`: the first element is Alice's score and the second is Bob's score

## 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

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

## Sample Input 0

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```
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]**.

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Language

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'compareTriplets' function below.
11 #
12 # The function is expected to return an INTEGER_ARRAY.
13 # The function accepts following parameters:
14 # 1. INTEGER_ARRAY a
15 # 2. INTEGER_ARRAY b
```

```

16 #
17
18 def compareTriplets(a, b):
19     # Write your code here
20     score_a = 0
21     score_b = 0
22     for i in range(len(a)):
23         if a[i] > b[i]:
24             score_a += 1
25         if a[i] < b[i]:
26             score_b += 1
27     return [score_a, score_b]
28
29 if __name__ == '__main__':
30     fptr = open(os.environ['OUTPUT_PATH'], 'w')
31
32     a = list(map(int, input().rstrip().split()))
33
34     b = list(map(int, input().rstrip().split()))

```

EMACS

Line: 42 Col: 1

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Run Code

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70%

21/30



Problem Solving


## Congratulations

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Next Challenge

 Test case 0

Compiler Message

 Test case 1 



Success

 Test case 2 



Input (stdin)

Download

1 5 6 7

 Test case 3 


2 3 6 10

 Test case 4 

Expected Output

Download

1 1 1

 Test case 5 
 Test case 6 

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