

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.

We define the rating for Alice's challenge to be the triplet a = (a[0], a[1], a[2]), and the rating for Bob's challenge to be the triplet 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 $oldsymbol{1}$ point.
- If a[i] = b[i], then neither person receives a point.

Comparison points is the total points a person earned.

Given \boldsymbol{a} and \boldsymbol{b} , determine their respective comparison points.

For example, a=[1,2,3] and 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 a[2] > b[2] so Alice receives a point. Your return array would be a[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 $\bf 3$ space-separated integers, a[0], a[1], and a[2], describing the respective values in triplet a. The second line contains $\bf 3$ space-separated integers, b[0], b[1], and b[2], describing the respective values in triplet b.

Constraints

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



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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^{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].



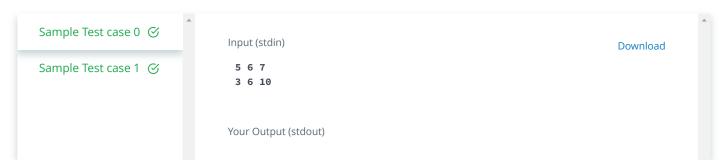
```
6
    import re
7
    import sys
8
   # Complete the compareTriplets function below.
9
10 w def compareTriplets(a, b):
        def compare_sum(tuple_):
11 ▼
12
            return sum([x>y for x, y in zip(*tuple_)])
13
        return map(compare_sum, ((a,b), (b,a)))
14
15 🔻 '''
        a_count = 0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

Congratulations!

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