

# Arrays 1D - Compatible array

Problem

Submissions

Leaderboard

Discussions

Two arrays are said to be compatible if they are of the same size and if the  $i$ th element in the first array is greater than or equal to the  $i$ th element in the second array for all the values of  $i$ . Write a program to find whether 2 arrays are compatible or not.

## Input Format

Input consists of  $2n+2$  integers. The first integer corresponds to ' $n_1$ ', the size of the first array. The next ' $n_1$ ' integers correspond to the elements in the first array. The next  $(n+1)$  integer corresponds to ' $n_2$ ', the size of the second array. The last ' $n_2$ ' integers correspond to the elements in the second array.

## Constraints

NA

## Output Format

The output is any one of the two strings "Compatible" or "Incompatible"

## Sample Input 0

```
5
2
3
6
8
1
5
1
1
1
1
1
```

## Sample Output 0

```
Compatible
```

## Sample Input 1

```
5
2
3
6
8
1
5
1
1
1
1
```

1  
2

## Sample Output 1

Incompatible

f t in

Submissions: 528

Max Score: 100

Difficulty: Medium

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☆☆☆☆☆

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C



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7     int n,k=0,m;
8     scanf("%d",&n);
9     int a[n];
10    for(int i=0;i<n;i++){
11        scanf("%d",&a[i]);
12    }
13    scanf("%d",&m);
14    int b[m];
15    for(int i=0;i<m;i++){
16        scanf("%d",&b[i]);
17    }
18    if(n==m){
19        for(int i=0;i<n;i++){
20            if(a[i]>=b[i]){
21                k++;
22            }
23        }
24        if(k==n){
25            printf("Compatible");
26        }
27        else{
28            printf("Incompatible");
29        }
30    }
31    else{
32        printf("Incompatible");
33    }
34    return 0;
35 }
36
37
```

Line: 1 Col: 1

Upload Code as File ☐ Test against custom input

Run Code

Submit Code

Testcase 0 

Testcase 1 

## Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

### Input (stdin)

```
5
2
3
6
8
1
5
1
1
1
1
1{-truncated-}
```

### Your Output (stdout)

```
Compatible
```

### Expected Output

```
Compatible
```