

<https://course.acciojob.com/idle?question=66be1083-c1af-44eb-85ae-5214429f5007>

● EASY

● Max Score: 30 Points

●

Check if two arrays are equal or not

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Note : If there are repetitions, then counts of repeated elements must also be same for two array to be equal.

Input

line 1: contains an integer n denoting size of array.

line 2: contains n spaced integers denoting elements of array A.

line 3: contains n spaced integers denoting elements of array B.

Output

Print `true` if the two arrays are equal otherwise print `false`.

Example 1

Input

```
5
1 2 5 4 0
2 4 5 0 1
```

Output

```
true
```

Explanation

Both the arrays contain the same set of elements same number of times.

Example 2

Input

```
5
1 2 5 0 0
2 5 5 0 1
```

Output

```
false
```

Explanation

Both the arrays contain the same set of elements same but the frequency is different.

Constraints

$1 \leq n \leq 10^6$

$1 \leq A[i], B[i] \leq 10^6$

Topic Tags

- Hashing
- Arrays

My code

// in java

```
import java.util.*;
import java.lang.*;
```

```
import java.io.*;

public class Main
{
    public static void main (String[] args) throws java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int arr[]=new int[n];
        int arrb[]=new int[n];
        for(int i=0;i<n;i++)
            arr[i]=s.nextInt();
        for(int i=0;i<n;i++)
            arrb[i]=s.nextInt();
        Arrays.sort(arr);
        Arrays.sort(arrb);
        int c=1;
        for(int i=0;i<n;i++)
            if(arr[i]!=arrb[i]) c=0;
        System.out.print(c);

    }
}
```