# Sort Checker

You are given an array *A* 

and an array *B* of the same size. You have to print "yes" if *B* is the sorted version of *A* and "no" otherwise

### Input

First line contains a single integer *T* 

, the number of testcases

The first line of each testcase contains a single integer n

, the number of elements in the arrays

The second line of each testcase contains *n* 

space separated integers denoting the array *A* 

The third line of each testcase contains *n* 

space separated integers denoting the array *B* 

### **Output**

Print one line for each testcase, "yes" or "no"

#### **Constraints**

1≤*T*≤105

1≤∑over all testcases*n*≤105

## **Sample Input**

1 3 2 2 1 2 3 4

1 3 2 2

1 2 3 2

1 3 2 2

1 2 2 3

## **Sample Output**

no

no

yes

# **Explanation**

All three testcases have the same array A

, and the sorted version of  $\boldsymbol{A}$ 

is {1, 2, 2, 3}

Therefore only the third testcase contains "yes", rest contain "no"