Piling Up!

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There is a horizontal row of n cubes. The length of each cube is given. You need to create a new vertical pile of cubes. The new pile should follow these directions: if $cube_i$ is on top of $cube_j$ then $sideLength_j \geq sideLength_i$.

When stacking the cubes, you can only pick up either the leftmost or the rightmost cube each time.

Print *"Yes"* if it is possible to stack the cubes. Otherwise, print *"No"*. Do not print the quotation marks.

Input Format

The first line contains a single integer T, the number of test cases.

For each test case, there are 2 lines.

The first line of each test case contains n, the number of cubes.

The second line contains n space separated integers, denoting the *sideLengths* of each cube in that order.

Constraints

$1 \leq T \leq 5$

$1 \leq n \leq 10^5$

$1 \leq sideLength < 2^{31}$

Output Format

For each test case, output a single line containing either *"Yes"* or *"No"* without the quotes.

Sample Input

```
2
6
4 3 2 1 3 4
3
1 3 2
```

Sample Output

```
Yes
No
```

Explanation

Author sandyeep

Difficulty Medium

Max Score 50

Submitted By 10601

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Suggest Edits

In the first test case, pick in this order: **left - 4, right - 4, left - 3, right - 3, left - 2, right - 1**.
In the second test case, no order gives an appropriate arrangement of vertical cubes. 3 will always come after either 1 or 2.

Current Buffer (saved locally, editable) Python 3

```
1  for t in range(int(input())):
2    input()
3    li=list(map(int,input().split()))
4    l=len(li)
5    i=0
6    while(i<l-1 and li[i]>=li[i+1]):
7      i=i+1
8    while(i<l-1 and li[i]<=li[i+1]):
9      i=i+1
10   if(i==l-1):
11     print("Yes")
12   else:
13     print("No")
```

Line: 4 Col: 11

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You solved this challenge. Would you like to challenge your friends?

Next Challenge

Testcase 0 Testcase 1 Testcase 2 Testcase 3

5 Testcases

Input (stdin) Download

```
3
100000
137715052 704826597 6341941
```

Expected Output Download

```
No
Yes
Yes
```

Compiler Message

```
Success
```