Piling Up! ★

32/115 challenges solved

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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`.

Example

$blocks = [1, 2, 3, 8, 7]$

Result: `No`

After choosing the rightmost element, 7, choose the leftmost element, 1. After than, the choices are 2 and 8. These are both larger than the top block of size 1.

$blocks = [1, 2, 3, 7, 8]$

Result: `Yes`

Choose blocks from right to left in order to successfully stack the blocks.

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`.

Sample Input

```
STDIN        Function
-----        --------
2            T = 2
6            blocks[] size n = 6
4 3 2 1 3 4  blocks = [4, 3, 2, 1, 3, 4]
3            blocks[] size n = 3
1 3 2        blocks = [1, 3, 2]
```

Sample Output

```
Yes
No
```

Explanation

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**.

Change Theme Language Python 3

```
t=int(input())
for i in range(t):
    n=int(input())
    lst = list(map(int,input().split()))
    min_lst=lst.index(min(lst))
    left=lst[:min_lst]
    right=lst[min_lst+1:]
    if (left == sorted(left,reverse=True) and right == sorted(right)):
        print("Yes")
    else:
        print("No")

```

Line: 8 Col: 70

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32/115 challenges solved.

28%

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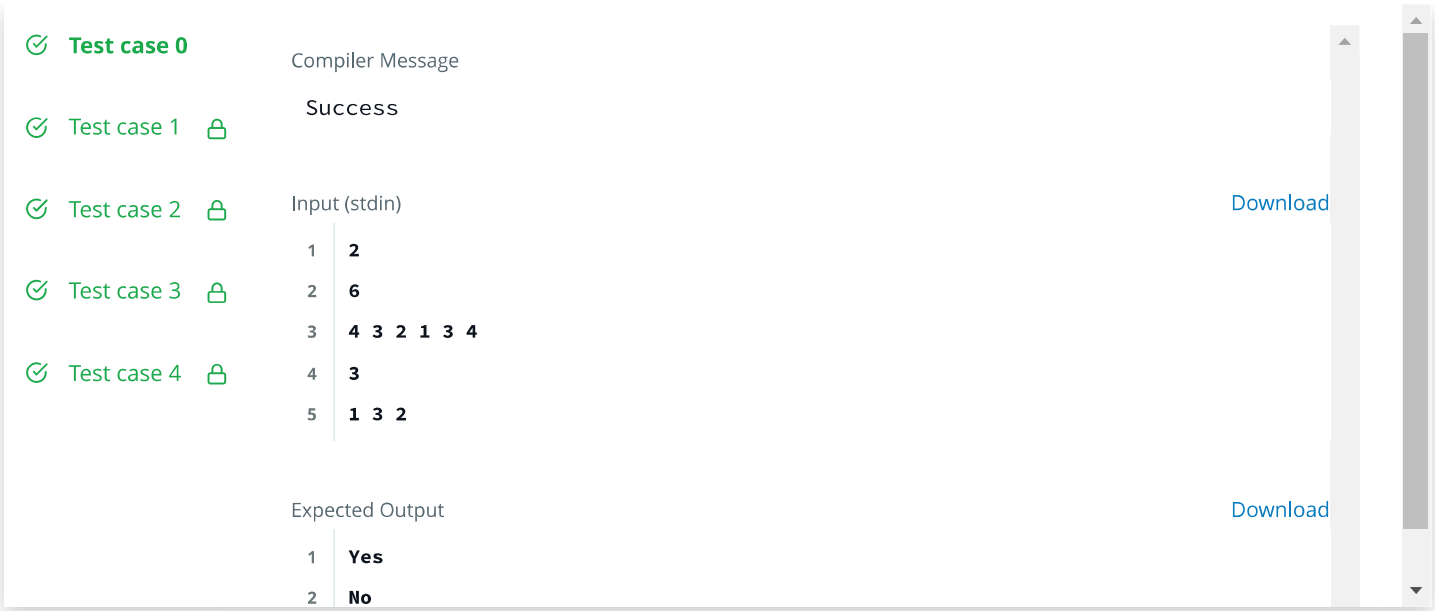
Next Challenge


Test case 0
Test case 1
Test case 2
Test case 3
Test case 4
Compiler Message
Success
Input (stdin)
Download
1 2
2 6
3 4 3 2 1 3 4
4 3
5 1 3 2
Expected Output
Download
1 Yes
2 No