

# Chef and Rainbow Array

Problem Code: **RAINBOWA**

---

Chef likes all arrays equally. But he likes some arrays more equally than others. In particular, he loves Rainbow Arrays.

An array is Rainbow if it has the following structure:

- First  $a_1$  elements equal **1**.
- Next  $a_2$  elements equal **2**.
- Next  $a_3$  elements equal **3**.
- Next  $a_4$  elements equal **4**.
- Next  $a_5$  elements equal **5**.
- Next  $a_6$  elements equal **6**.
- Next  $a_7$  elements equal **7**.
- Next  $a_6$  elements equal **6**.
- Next  $a_5$  elements equal **5**.
- Next  $a_4$  elements equal **4**.
- Next  $a_3$  elements equal **3**.
- Next  $a_2$  elements equal **2**.
- Next  $a_1$  elements equal **1**.
- $a_i$  can be any non-zero positive integer.
- There are no other elements in array.

Help Chef in finding out if the given array is a Rainbow Array or not.

---

## Input

- The first line of the input contains an integer **T** denoting the number of test cases.
- The first line of each test case contains an integer **N**, denoting the number of elements in the given array.
- The second line contains **N** space-separated integers **A<sub>1</sub>, A<sub>2</sub>, ..., A<sub>N</sub>** denoting the elements of array.

---

## Output

- For each test case, output a line containing "yes" or "no" (without quotes) corresponding to the case if the array is rainbow array or not.

---

## Constraints

- $1 \leq T \leq 100$
- $7 \leq N \leq 100$
- $1 \leq A_i \leq 10$

---

## Subtasks

- **Subtask 1** (100 points) : Original constraints

---

### Example

#### Input

3

19

1 2 3 4 4 5 6 6 6 7 6 6 6 5 4 4 3 2 1

14

1 2 3 4 5 6 7 6 5 4 3 2 1 1

13

1 2 3 4 5 6 8 6 5 4 3 2 1

#### Output

yes

no

no

---

### Explanation

The first example satisfies all the conditions.

The second example has **1** element of value **1** at the beginning and **2** elements of value **1** at the end.

The third one has no elements with value **7** after elements with value **6**.