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CODECHEF Certified
Data Structure & Algorithms Programme (CCDSAP)   EXAM DATE **26** **AUGUST** **2018**   KNOW MORE

Chef and Rainbow Array | Problem Code: **RAINBOWA**

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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_1, A_2, ..., A_N denoting the elements of array.

- 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

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

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**.

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