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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, \dots, A_N 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.

Author:	berezin
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