## GENIE SEQUENCE

A Genie Sequence is a sequence in which every element indicates the number of elements present before or after it. Given an array of numbers, find whether you can form a Genie sequence or not.

## Input

First line contains a single integer T , the number of test cases. It is followed by T cases each of which contains two lines. First line of each test case contains a single integer $N$. The next line contains $N$ integers separated by a single space.

Output

For each test case output a single line containing "YES" (without quotes) if it is possible to form a genie sequence or "NO" (without quotes) if it is not possible.

## Constraints

$1<=$ T<=20
$2<=N<=1000$
$1<=a \mathrm{i}<=10^{\wedge} 3$

## Example

Input:
1

4

1332

## Output:

YES

## Explanation for the test case :

The Genie sequence is $\{3,1,2,3\}$. The first element ' 3 ' in the sequence indicates that three numbers are after it, the $2 n d$ element ' 1 ' indicates that one number if before it, the 3rd element ' 2 ' indicates that two elements are before it and the last element indicates that three elements are before it. So the answer is YES.

