https://course.acciojob.com/idle?question=e6a1d307-59de-4d83-b17 4-943c69c5b042

- EASY
- Max Score: 30 Points
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Peak element

Given an array A with N positive integers.

Your task is to find the index of peak element i.e. an element that is not smaller than its neighbors i.e. if arr[i] is the peak element, arr[i-1]<arr[i] and arr[i+1]<arr[i].

Note For corner elements, we need to consider only one neighbor.

Input Format

The first line contains the number of test cases T

For each test case: The first line contains an integer ${\tt N}$ denoting the number of elements.

The second line contains n space separated integers denoting the elements of the array n.

You need to complete findPeak function which contains array arr of size N and returns the index of the peak element.

Output Format

For each test case return an integer, denoting the index of the peak element. If there are multiple peak element return any one index.

Example 1

```
Input
1 10 3 10 2
Output
1
Explanation
10 is greater than 1 and 3. Therefore index 1 is a peak element
The answer is 1.
Note The answer can even be 4.
Example 2
Input
1 2 3 4 5
Output
4
Explanation
5 is greater than 4.
Thus answer is index 4.
```

There is only one unique answer in this case.

Constraints

```
1 <= T <= 10

1 <= N <= 10000

1 <= A[i] <= 1000000000
```

Topic Tags

- Binary Search
- Arrays

My code

```
for(int i=0;i<n;i++)
           arr[i]=s.nextInt();
     if(arr[0]>arr[1])
       System.out.println("true");
     continue;
      if(arr[n-1]>arr[n-2])
       System.out.println("true");
           continue;
      }
     int x=0;
     for(int i=1;i<n-1;i++)
               if((arr[i]>arr[i+1]) && (arr[i]>arr[i-1]))
                System.out.println("true");
                    x=1;
                break;
     if(x==0)
           System.out.println("false");
}
```