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STUDENT REPORT

8823

DETAILS

Name

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83

Roll Number

3BR23CD083

Title

PEAK ELEMENT FINDER

Description

Description: You are given an N- dimensional array arr[]. A peak element in the array is defined as an element whose value is greater than or equal to its neighboring elements (if they exist). Your task is to find the index of any peak element in the given array

Note: use 0-based indexing

Input:

An integer representing the number of elements in the array. N space-separated integers, denoting the elements of the array.

N space-separated integers ,denoting the elements of the array arr[]

3BR23CD083ABR23CD083ABR23CD08ABR

100

Sample Input:

5

1 3 20 4 1

Sample Output:

2

3BR23CD0833BR23CD0833BR23CD0833BR23 38R23CD0833BR23CD0833BR23CD0833BR23CD083

2CD0833RR23CD083ARR23CD083ARr23CD083 38R23CD0833RR23CD083ARR23C https://practice.reinprep.com/student/get-report/0945868a-7bd7-11ef-ae9a-0e411ed3c76b

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```
def find_peak_element(arr):
 n = len(arr)
 if n == 1:
    return 0
 if arr[0] > arr[1]:
    return 0
 if arr[n - 1] > arr[n - 2]:
    return n - 1
 for i in range(1, n - 1):
    if arr[i] > arr[i - 1] and arr[i] > arr[i + 1]:
      return i
  return -1
n = int(input())
arr = list(map(int, input().split()))
index = find_peak_element(arr)
if index != -1:
  print(index)
else:
 print("No peak element found.")
```

5 / 5 Test Cases Passed | 100 %

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