

STUDENT REPORT

BR23

02

DETAILS

Name

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Roll Number

3BR23CD102

Title

3300105

REAK 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[]

Sample Input:

5

1 3 20 4 1

Sample Output:

2

38R23CD1023BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD1022BR23CD102BR22CD102BR22CD1022BR22CD1022BR22CD1022BR22CD1022BR22CD1022BR22CD1 38R23CD1023BR23CD1023BR23CD1023BR23CD1

38R23CD1023BR23CD102BR23CD1 https://practice.reinprep.com/student/get-report/7f54c067-7c07-11ef-ae9a-0e411ed3c76b

30

8223

-8R23CD102 38R23CD102 3R20CD102 3R20CD

```
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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