

STUDENT REPORT

DETAILS

Name

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1030

CA

Roll Number

3BR23CA110

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.

38R23CA110 3R20CA110 3R20C

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

Sample Input:

5

1 3 20 4 1

Sample Output:

2

3BR23CA1103BR23CA1103BR23CA1 38R23CA1103BR23C

38

```
3BR23CA110-Peak Element Finder
  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 %
```

https://practice.reinprep.com/student/get-report/93f9c3d4-7cc7-11ef-ae9a-0e411ed3c76b