

DETAILS

Name

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Roll Number

3BR23EC042

PEAK ELEMENT FINDER

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[]

38R23ECOA2 38R23ECOA2

· 0 12

Sample Input:

5

1 3 20 4 1

Sample Output:

2

38R23ECOA2 3R23ECOA2 3 38R23ECOA2 3BR23ECOA2 3BR23E 38R23ECOA2 38R23EC

https://practice.reinprep.com/student/get-report/9367291d-7bc6-11ef-ae9a-0e411ed3c76b

STUDENT REPORT

8823 042

3822

BRAZECOR 3BRZECOR 3BRZECOR 3BRZECOR BRZECOR BR E GALA BAR RABE GALA BAR RABE

38R23ECOA2 38R23ECOA2

```
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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