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RR23HD363BR23HD368BR2

235



STUDENT REPORT

FFO.

DETAILS

Name

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Roll Number

3BR23EE036

Title

PEAK ELEMENT ENDER

2827

36

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[]

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Sample Input:

5

1 3 20 4 1

Sample Output:

2

3BR23FE0363BR23FE0363BR23FE0365 3BR23EE0363BR23EE0363BR23EE0363BR 3BR23EE0363BR23EE0363BR23 Source Code:

```
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.")
```

(LS O LI)

5 / 5 Test Cases Passed | 100 %

https://practice.reinprep.com/student/get-report/be7c35d7-7cc5-11ef-ae9a-0e411ed3c76b