

STUDENT REPORT

FFO.

DETAILS

Name

MADHU.K

Roll Number

3BR23EE057

Title

PEAK ELEMENT FINDER

3827

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[]

3BR23ELO51 3BR23ELO51

Sample Input:

5

1 3 20 4 1

Sample Output:

2

3BR23EE051 3BR23EE051 3BR23EE051 3BR23EE051 3BR23EE051 3BR23EE051 3BR23EE051

235

405

38R23ELO51 3R22ELO51 38R23ELO51 3R22ELO51 3R22ELO5

```
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.")
```

RESULT

5 / 5 Test Cases Passed | 100 %

https://practice.reinprep.com/student/get-report/10724bf8-7b26-11ef-ae9a-0e411ed3c76b