3822

8823



STUDENT REPORT

030

DETAILS

Name

DEEKSHITHA S B M

Roll Number

3BR23EC039

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.

8R23EC039 3BR23EC039 3

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

3BR23EC039 3BR23EC039

Sample Input:

5

1 3 20 4 1

Sample Output:

2

3BR23EC039 3BR23EC039 3BR23EC039 3BR23EC039

```
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.")
```

26,

5 / 5 Test Cases Passed | 100 %