Logo

STUDENT REPORT

1823

6

WB23C5E161 KUB23C5E161 KUB23C5

DETAILS

Name

VISHWANATHA B

Roll Number

KUB23CSE161

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.

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

LUB23C5E161 KUB23C5E161 KUB23C

W1823C5E161 K11823C5E161 K11825

Sample Input:

5

1 3 20 4 1

Sample Output:

2

LUB23C5E167

Source Code:

33.C5E,161 KUB23C5E,161 KUB23C5 116 https://practice.reinprep.com/student/get-report/228ec389-7cf9-11ef-ae9a-0e411ed3c76b

FUBL

```
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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