

STUDENT REPORT

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8223

DETAILS

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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[]

38R23C1039 3BR23C1039 3BR23C1030 3BR23C1000 3BR23C1000 3BR23C1000 3BR23C1000 3BR23C1000 3BR23C1000 3BR23C1000 3BR23C1000 3BR23C10000

100

Sample Input:

5

1 3 20 4 1

Sample Output:

2

3BR23CD0393BR23CD0393BR 3BR23CD0393BR23CD0393BR23CD0393BR23CD0

30 30

```
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 %

https://practice.reinprep.com/student/get-report/fd75ec94-7b3f-11ef-ae9a-0e411ed3c76b