3882



STUDENT REPORT

30)

DETAILS

Name

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Roll Number

3BR23CS128

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.

BR23C5128 3BR23C5128 3

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

38R23C5128 3BR23C5128 3BR23C5128

Sample Input:

5

1 3 20 4 1

Sample Output:

2

Source Code: 9 3BR23C512883BR23C51288BR23C5128BR23C5128BR23C51

2822.

```
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/205c8352-7c6e-11ef-ae9a-0e411ed3c76b