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Logo

STUDENT REPORT

1823

DETAILS

Name

SAI DEEPTHI T

Roll Number

KUB23CSE122

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.

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

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Sample Input:

5

1 3 20 4 1

Sample Output:

2

4J823C5E122

KUB23C5E122 KUB22 KUB22C5E122 Source Code:

FIBL

```
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/0d17a23a-7ca8-11ef-ae9a-0e411ed3c76b