## STUDENT REPORT

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### **DETAILS**

28/09/2024, 03:21

#### Name

MADHUSHEKHAR T J

#### **Roll Number**

TEMPBTech-ECE022

#### **Title**

CEOLS

**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[]

TEMP BTECH. ECEO22 TEMP BTECH. ECEO. EC

#### **Sample Input:**

5

1 3 20 4 1

#### **Sample Output:**

2

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# ECFO23 TEMP8 Tech. ECFO23 TEMP8 TEMP BTech-ECE 022 TEMP BTech. ECE 022 TEMP ECEO22 LEW BLECH, ECEO22 LEW BE

```
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.")
```

KLSOLI

5 / 5 Test Cases Passed | 100 %

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