12

Logo

## STUDENT REPORT

1823

~6

AUB23C5E116 KUB23C5E116 KUB23C

DETAILS

Name

RIYAZUN NIKHAT

**Roll Number** 

KUB23CSE116

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.

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

LUB23CSE116 KUB23CSE116 KUB23C

KUB23C5E116 KUB23C

**Sample Input:** 

5

1 3 20 4 1

Source Code:

**Sample Output:** 

2

LUB23C5E116

3.CSE1.10 KUB23.CSE1.10 KUB23. W823C5E1716 KU823C5E1716 KU823C 

10 F785

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 %

10

CSE.

JBL

,10

355

TIBL

\$ 1