5033

30)



# STUDENT REPORT

3882

2822.

The state of the s

CON MAN TO BE AND CON MAN TO BE AND CONTROL OF THE PARTY OF THE PARTY

8R23C5033 3BR23C5033 3BR23C5033 3BR23C5033 5.

# Name

BINDU A V

# **Roll Number**

3BR23CS033

**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.

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

3BR23C5033 3BR23C503 3BR23C50

3BR23C503333BR23C503333BR23C503333

## Sample Input:

5

1 3 20 4 1

# **Sample Output:**

2

### Source Code:

```
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/e5d5fbe7-7b4b-11ef-ae9a-0e411ed3c76barber and the state of the state of