## STUDENT REPORT

823

Logo

3BR23CA067-Peak Element Finder

200

38R23CRO61 3R22CRO61 38R23CRO61 3R22CRO61 3R22CRO6

38

3CR067

# DETAILS

### Name

MD FAIZ

**Roll Number** 

3BR23CA067

**Title** 

061

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[]

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CAOO

## **Sample Input:**

5

1 3 20 4 1

## **Sample Output:**

2

38R23CA061 38R23CA061 38R23CA061 38R23CA061

```
3BR23CA067-Peak Element Finder
  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/7a131f26-7ce3-11ef-ae9a-0e411ed3c76b