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3A10



## STUDENT REPORT

30

# DETAILS

### Name

ANKITA SHANTAYYA SASIMATH

233

### **Roll Number**

3BR23AI011

**Title** 

,Alon

PEAK ELEMENT FINDER

### ,R23A101 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

101

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[]

38R23A1011 3R23A1011 3R23A101 3R23A1

### **Sample Input:**

5

1 3 20 4 1

### **Sample Output:**

2

## 3BR23A101 3BR23A 3BR23A10113BR23A10113BR23A 38R23A1011 38R23A1011 38R23A1011 38R23A1011 38R23A1011 3BR23A10

```
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.")
```

0 / 5 Test Cases Passed | 0 %

https://practice.reinprep.com/student/get-report/b92221f0-7b4e-11ef-ae9a-0e411ed3c76b