ech.

PRICE

o Blech. Leto a tempo blec

Blec



## STUDENT REPORT

Let

#### **DETAIL**

#### Name

SIDIGONDE BHARATH KUMAR

#### **Roll Number**

TEMPBTech-ECE004

### **EXPERIMENT**

**Title** 

ELOOA

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 BTE CH. LC LOOA TEMP BTE

#### Sample Input:

5

1 3 20 4 1

#### **Sample Output:**

2

# TEMP BTech. ECHOOA TEMP BTech. ECHOOA ECEOOA TEMPBTECH. ECOO TEMPBTECH. ECEOOA TEMPBTECH. ECEOOA TEMPBTECH. ECOO TEMPBTECH TEMP BTech. ECEOOAT

ECHOOA TEMP BT ech. ECHOOA NPB Techtet BOOM TEMP Brech tet BOOM TEMP BRECH TEMP BR https://practice.reinprep.com/student/get-report/2c888f12-7bce-11ef-ae9a-0e411ed3c76b

```
def find_peak(arr):
    n = len(arr)
   # Check for peak at the first element
    if n == 1 or arr[0] >= arr[1]:
        return 0
   # Check for peak at the last element
    if arr[n - 1] >= arr[n - 2]:
        return n - 1
   # Check for peaks in the middle of the array
    for i in range(1, n - 1):
        if arr[i] >= arr[i - 1] and arr[i] >= arr[i + 1]:
            return i
    return -1 # If no peak is found, though the problem guarantees there is one
# Input reading
n = int(input().strip()) # Read the number of elements
arr = list(map(int, input().strip().split())) # Read the array elements
# Find and print the index of a peak element
peak_index = find_peak(arr)
print(peak_index)
```

RESULT

5 / 5 Test Cases Passed | 100 %

https://practice.reinprep.com/student/get-report/2c888f12-7bce-11ef-ae9a-0e411ed3c76b