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STUDENT REPORT

Lect

DETAIL

Name

G SIDDESHWAR

Roll Number

TEMPBTech-ECE011

EXPERIMENT

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[]

TEMP BTECH, ECHO 1 TEMP BTECH, E

Sample Input:

5

1 3 20 4 1

Sample Output:

2

TEMP BTech. ECEO 1 TEMP BTech. ECEO 1 **Source Code:** ECEO 1 LEW Blech. FCEO 1 LEW Blech. FCEO 1

```
def find_peak(arr):
    n = len(arr)

if n == 1 or 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().strip())
arr = list(map(int,input().strip().split())))

peak_index = find_peak(arr)
print(peak_index)
```

RESULT

5 / 5 Test Cases Passed | 100 %

https://practice.reinprep.com/student/get-report/2b14471b-7bd7-11ef-ae9a-0e411ed3c76b