STUDENT REPORT

DETAILS

Name

MEHABOOB BASHA

EXPERIMENT

Title a

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[]

Sample Input:

5

1 3 20 4 1

Sample Output:

2

RESULT

5 / 5 Test Cases Passed | 100 %

Roll Number

KUB23ECE022

Source Code:

```
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)
```