500

-8R23CD0013R23CD0013CD0013C

8223



STUDENT REPORT

8823

DETAILS

Name

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02

Roll Number

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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.

38R23CD0023BR23CD0023CD0025C

N space-separated integers ,denoting the elements of the array arr[]

CDO

Sample Input:

5

1 3 20 4 1

Sample Output:

2

38R23CD00238R23CD00238R23CD00238R23 38R23CD00238R23CD00238R23CD00238R23CD00238R23CD00238R23CD00238R23CD0023RR23CD0022RR23CD0022RR23CD0022RR23CD0022RR23CD0022RR23CD0022RR23CD0022RR22CD0022RR23CD0022RR24C

38R23CH0023R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R23CH0022R22CH0022CH0022CH0022CH0022CH0022CH0022CH002C 38R23CD00238R23CD00238R23CD00238R23CD00238R23CD00238R23CD00238R23CD00238R23CD00238R23CD0023R23CD0022R22CD0022R2 https://practice.reinprep.com/student/get-report/b9baf364-7d5d-11ef-ae9a-0e411ed3c76b

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```
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 %