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STUDENT REPORT

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DETAILS

Name

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Roll Number

3BR23CD047

Title

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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[]

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Sample Input:

5

1 3 20 4 1

Sample Output:

2

3BR23CD0AT 3BR22CD0AT 3BR22CD0AT 3BR22CD0AT 3BR22CD0AT 3BR22CD0AT 38R23CD0A1 3BR23CD0A1 3BR23CD0A1

```
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 %

https://practice.reinprep.com/student/get-report/e62c83fb-7d79-11ef-ae9a-0e411ed3c76bare and the statement of the statement