KUB23ECE014-Peak Element Finder

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AND BY SECEPOTA KUB 23 ECEPOTA KUB 2

## STUDENT REPORT

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DETAILS

Name

HARSHITHA P

**Roll Number** 

KUB23ECE014

PEAK ELEMENT FINDER

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

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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[]

KUB23ECEO1A KUB23E

KUB23ECEO1A KUB2A KUB23ECEO1A KUB2A KUB23ECEO1A KUB2A KUB23ECEO1A

**Sample Input:** 

5

1 3 20 4 1

Source Code:

**Sample Output:** 

2

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age Cto 1 A kur 23 to Cto 1 A WB23ECHO1A KUB23ECHO1A KUB23EC https://practice.reinprep.com/student/get-report/559e19a6-7c10-11ef-ae9a-0e411ed3c76b

FIBIT

```
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/559e19a6-7c10-11ef-ae9a-0e411ed3c76b