

STUDENT REPORT

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3/	XPERIMENT 1823 MC ROTT FUR 23 MC ROT
	PEAK ELEMENT FINDER
MCROTT	Description 3 MC POINT AND THE PROPERTY OF THE
5	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
11 F185	Note: use 0-based indexing
	Input:
23MCAS	An integer representing the number of elements in the array. N space-separated integers, denoting the elements of the array.
80	N space-separated integers ,denoting the elements of the array arr[]
	Sample Input:
ROTT FU	5
P	1 3 20 4 1
, (Sample Output:
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Source Code:

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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.")
```

RESULT

5 / 5 Test Cases Passed | 100 %

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