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823C5E018 KUB23C5E018 KUB23C5E



## STUDENT REPORT

·0/8

# DETAILS

Name S

**B SHRINIVAS** 

Roll Number

KUB23CSE018

### **EXPERIMEN**

**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.

KUB23C5E018 KUB23C

KU823C5E018 KU825C5E018 KU825C5E018 KU825C5E018 KU825C5E018 KU825C5E018 KU825C

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

CSED

JBZ

#### **Sample Input:**

5

018 F783

1 3 20 4 1

#### **Sample Output:**

2

# CSEO 18 KUB23 CSEO 15 KUB23 CSEO 15 KNB23C5E018 KNB25C5E018 KNB25C5E018 KNB25C5E018 KNB25C

```
def find_peak(arr):
        n = len(arr)
        if n == 0:
            return "NOT FOUND"
        for i in range(n):
            # Check if the current element is a peak
            if (i == 0 \text{ or } arr[i] >= arr[i - 1]) and (i == n - 1 \text{ or } arr[i] >= arr[i + 1]):
                 return i # Return the index of the peak element
        return "NOT FOUND" # In case there is no peak (though there should be one as per problem statement)
    # Example usage
    n = int(input().strip())
    arr = list(map(int, input().strip().split()))
    result = find_peak(arr)
    print(result)
RESULT
  5 / 5 Test Cases Passed | 100 \%
```