

## Leaders in an array



Easy

Accuracy: **49.96%**Submissions: **100k+**Points: **2**This problem is part of GFG SDE Sheet. [Click here to view more.](#) 

Given an array A of positive integers. Your task is to find the leaders in the array. An element of array is leader if it is greater than or equal to all the elements to its right side. The rightmost element is always a leader.

### Example 1:

**Input:**

n = 6

A[] = {16,17,4,3,5,2}

**Output:** 17 5 2

**Explanation:** The first leader is 17 as it is greater than all the elements to its right. Similarly, the next leader is 5. The right most element is always a leader so it is also included.

### Example 2:

**Input:**

n = 5

A[] = {1,2,3,4,0}

**Output:** 4 0

takes array A and n as input parameters and returns an array of leaders in order of their appearance.

**Expected Time Complexity:**  $O(n)$

**Expected Auxiliary Space:**  $O(n)$

**Constraints:**

$$1 \leq n \leq 10^7$$

$$0 \leq A_i \leq 10^7$$

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```
1  // } Driver Code Ends
45 class Solution{
46     static ArrayList<Integer> leaders(int arr[], int n){
47
48         ArrayList<Integer> res=new ArrayList<>();
49
50         int leader=arr[n-1];
51         res.add(leader);
52         for(int i=n-2;i>=0;i--){
53             if(leader<=arr[i]){
54                 res.add(arr[i]);
55                 leader=arr[i];
56             }
57         }
58     }
59 }
```

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```
--  
60     Collections.reverse(res);  
61     return res;  
62 }  
63   
64
```



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