**Leaders in an array :-**

Easy Accuracy: 29.94% Submissions: 522K+ Points: 2

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  
**Explanation:** 0 is the rightmost element  
and 4 is the only element which is greater  
than all the elements to its right.

**Your Task:**  
You don't need to read input or print anything. The task is to complete the function **leader**() which 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 <= n <= 107  
0 <= Ai <= 107

**Code :-**

//{ Driver Code Starts

// C++ program to remove recurring digits from

// a given number

#include <bits/stdc++.h>

using namespace std;

// } Driver Code Ends

class Solution{

//Function to find the leaders in the array.

public:

vector<int> leaders(int arr[], int n){

vector<int> s;

for(int i=0; i<n; i++){

if(s.empty())

s.push\_back(arr[i]);

else{

while(s.size() and s.back() < arr[i])

s.pop\_back();

s.push\_back(arr[i]);

}

}

if(s.back() != arr[n-1])

s.push\_back(arr[n-1]);

return s;

}

};

//{ Driver Code Starts.

int main()

{

long long t;

cin >> t;//testcases

while (t--)

{

long long n;

cin >> n;//total size of array

int a[n];

//inserting elements in the array

for(long long i =0;i<n;i++){

cin >> a[i];

}

Solution obj;

//calling leaders() function

vector<int> v = obj.leaders(a, n);

//printing elements of the vector

for(auto it = v.begin();it!=v.end();it++){

cout << \*it << " ";

}

cout << endl;

}

}

// } Driver Code Ends

**T.C :- O(N)**

**S.C :- O(N)**