

#1. Given an array arr[] of size n, the task is to find the largest element in the given array.

[12,15,2,19,5]

#2. find the Second largest element in the given array.

#3.Check if the Array is Sorted : We are given an array containing n elements. Our task is to check whether the array is sorted in ascending (non-decreasing/increasing) order or not.

[3,7,15,60,90,99]

#4.Our Task: Given an array (or string), the task is to reverse the array.

Examples :

Input : arr[] = {1, 2, 3}

Output : arr[] = {3, 2, 1}

Input : arr[] = {4, 5, 1, 2}

Output : arr[] = {2, 1, 5, 4}

#5.Remove Duplicates from a Sorted Array !!!

Our Task: Given a sorted array, the task is to remove the duplicate elements from the array.

Ex1:

Input : arr[] = {2, 2, 2, 2, 2}

Output : arr[] = {2}

new size = 1

Ex2:

Input : arr[] = {1, 2, 2, 3, 4, 4, 4, 5, 5}

Output : arr[] = {1, 2, 3, 4, 5}

new size = 5

#6.Move Zeros to End !!!

Our Task: Given a sorted array, the task is to remove the duplicate elements from the array.

Examples:

Input: arr[] = {1, 2, 0, 0, 0, 3, 6}

Output: 1 2 3 6 0 0 0

Input: arr[] = {0, 1, 9, 8, 4, 0, 0, 2, 7, 0, 6, 0, 9}

Output: 1 9 8 4 2 7 6 9 0 0 0 0 0

#7 Left Rotate an Array by One !!!

Our Task: Given an array, the task is to Left Rotate an Array by One.

What is meant by the Left Rotation of an Array by One?

Left Rotation means a rotation that happens Counter-Clockwise (anticlockwise). The elements are moved counterclockwise by one, which results in the elements moving back by one position from their initial position.

Example:

Input: arr[] = {1,2,3,4,5}

Output: arr[] = {2,3,4,5,1}

Input: arr[] = {30,5,20}

Output: arr[] = {5,20,30}

#8. Left Rotate an Array by D Places !!!

Our Task: Given an array, the task is to Left Rotate an Array by D places.

What is meant by the Left Rotation of an Array by D places?

Left Rotation means a rotation that happens Counter-Clockwise (anticlockwise). The elements are moved counterclockwise by D number of places, which results in the elements moving back by D positions from their initial position.

Examples:

Input: arr[] = {1, 2, 3, 4, 5, 6, 7}, d = 2

Output: 3 4 5 6 7 1 2

Input: arr[] = {3, 4, 5, 6, 7, 1, 2}, d=2

Output: 5 6 7 1 2 3 4

#9 Find the Leaders in an Array !!!

Our Task: Given an array, the task is to write a program to print all the LEADERS in the array.

What is a Leader?

An element is a leader if it is greater than all the elements to its right side. And the rightmost element is always a leader.

For example:

Input: arr[] = {16, 17, 4, 3, 5, 2},

Output: 17, 5, 2

Input: arr[] = {1, 2, 3, 4, 5, 2},

Output: 5, 2

#10: Maximum Difference Problem with Order !!!

Our Task: Given an array `arr[]` of integers, find out the maximum difference between any two elements such that the larger element appears after the smaller number.

Examples :

Input : `arr = {2, 3, 10, 6, 4, 8, 1}`

Output : 8

Explanation : The maximum difference is between 10 and 2.

Input : `arr = {7, 9, 5, 6, 3, 2}`

Output : 2

Explanation : The maximum difference is between 9 and 7.