

## C++ Arrays Lab ' C 'Assignments 21 -12- 2022

1.	<p>Read an integer array A. Code to fill another array B , by selecting next maximum element every time from A, till all elements in A exhausts. Print contents of B.</p> <p>Input A = { 6 , 4 , 8 , 15 , 2 , 19 , 1 , 3 } Output B = { 19 , 15 , 8 , 6 , 4 , 3 , 2 , 1 }</p>
2.	<p>Read an integer array A. Code to find the average of it. Then adjust the elements in such a way that the elements which are smaller than average will be first and larger are at the end. Print contents of A after adjusted.</p> <p>Input A = { 6 , 1 , 8 , 5 , 7 , 4 , 9 , 2 , 3 } Output A = { 3 , 1 , 2 , 4 , 7 , 5 , 9 , 8 , 6 }</p>
3.	<p>Read an integer array and code to find all the leader elements in this array. An element is said to be leader if all the elements on it's right side are smaller than it. Rightmost element is always a leader. For example, if {14, 9, 11, 7, 8, 5, 3} is the given array then {14, 11, 8, 5, 3} are the leaders in this array. The leaders in [55, 67, 71, 57, 51, 63, 38] are : 38 63 71</p>
4.	<p>Code to find the non-common elements ( opposite of intersection) of multiple arrays.</p> <p>Input Arrays : [2, 3, 4, 7, 1] [4, 1, 3, 5] [8, 4, 6, 2, 1] [7, 9, 4, 1]</p> <p>Non-Common elements: [ 2 3 7 5 8 6 9 ]</p>