## M03S03 [Recursive Functions and Pointers]: Exercise 10

CS110: Computing Lab Department of CSE, IIT Guwahati Jan-May 2018

## **Problem Description**

Given an array and two elements of array (x and y) write a program to partition the array around the range such that array is divided in three parts.

- All elements smaller than x come first.
- All elements in range x to y come next.
- All elements greater than y appear in the end.

The individual elements of three sets can appear in any order. You are required to return the modified arranged array.

Your program must take the number of elements of array and elements of array from user during runtime. Array accessing should be done with pointers.

## Example 1:

Number of Elements in A: 6

Elements of Array: 1, 14, 5, 20, 4, 2, 54, 30, 87, 98, 3, 1, 32

lowVal = 14highVal = 30

Expected Output: 1, 5, 4, 2, 1, 3, 14, 20, 30, 98, 87, 32, 54