

National University of Computer and Emerging Sciences, Lahore Campus



Course:	Object Oriented Programming	Course Code:	
Program:	BS(Computer Science)	Semester:	Spring 2019
Topic:	Pointers	Total Marks:	10
Due Date:	6 th September,2019	Weight	%
Section:	A	Page(s):	1
Exam:	Assignment 1	Reg. No	

Submission Folder:

slate

Submission Instructions:

- Submit your running files carefully. After deadline no updated files will be accepted.

Write a C++ program that takes size of an array and array's elements from "Data1.txt" and displays the sorted list (in descending order) of elements after applying insertion sort. There might be duplicate values in the data.

Program should then ask the user how many times he/she wants to get the array rotated. User will also specify the rotation type (left or right rotation) [get a character 'L' for left and 'R' for right]

A left rotation operation on an array shifts each of the array's elements 1 unit to the left. For example, if 2 left rotations are performed on array [5,4,3,2,1] , then the array would become[3,2,1,5,4]. Similarly the right rotation will be the reverse of left rotation.

Required Output:

Test Case 1:

Array before Sorting: 8, 6, 6, 11, 3, 15, 5

Sorted Array:

15, 11, 8, 6, 6, 5, 3

2L (Left rotate 2)

8, 6, 6, 5, 3, 15, 11

Test Case 2:

Error: Array Size should be greater than zero.