## Homework Assignment #5 Array Rotator

The array rotator is a program that does the rotation of an array of size **n** by **d** elements. The rotated elements will be saved in a new array. The rotation could be clockwise or counterclockwise.

Example:

Initial Array: abcdefg

1) A counterclockwise rotation by 2 elements generates the following result:

New Array: fgabcde

2) A clockwise rotation by 3 elements generates the following result:

New Array: defgabc

Write a code of a program to do the following tasks:

- 1) Ask the user to enter the values of n and d, d<n.
- 2) Ask the user to enter the elements of the array, the elements are characters.
- 3) Ask the user about the orientation of the rotation (clockwise/counterclockwise).
- 4) Perform the rotation task and display the elements of each array in one line.
- a) You have to write a function that rotates the table and returns a pointer to the new array.
- b) You have to write a function that takes a pointer to an array as an argument and use it to display the elements on the same line.
- c) You have to submit arrayRotator.cpp file.
- d) The homework is due Sunday, October 19, 2014, 11:59 pm