



SWE210 - Data Structures and Algorithms - Fall 2025

Instructor: Dr. Ashraf AbdElRaouf, Dr. Osama El-Ghonimy, Dr. Sarah Nabil

Eng. Yasmin Kandil
Eng. Mohamed Salah
Eng. Karim Hesham
Eng. Maya Waleed



Data Structures

Lab #3

List - Using Dynamic Array:

- Please refer to the DynamicList.h file and start implementing the member functions of the class.
- Create a friend function that reverses the list.

Ex: list [1,2,3,4] Output: [4,3,2,1]

Write a LeftRotation operation function of an array list class **List**. The array of size **n** shifts each of the array's elements 1 unit to the left. **For example**, if 2 left rotations are performed on an array [1, 2, 3, 4, 5], then the array would become [3, 4, 5, 1, 2]. Given an array of n integers and a number, d, perform d left rotations on the array. **Then print the updated array as a single line of space-separated integers.**