



University of Central Punjab
Faculty of Information
Technology

Data Structures and Algorithms
Fall 2022

Graded Lab 02	
Topic	<ul style="list-style-type: none">• Abstract Classes• Templates• Linked List
Objective	The basic purpose of this lab is to test students on ADT of Linked List and its applications.

Graded Task

Given a singly linked list and an integer **K**, the task is to rotate the linked list clockwise to the right by **K** places.

Example 1:

Input: 1 -> 2 -> 3 -> 4 -> 5 -> NULL, K = 2

Output: 4 -> 5 -> 1 -> 2 -> 3 -> NULL

Example 2:

Input: 7 -> 9 -> 11 -> 13 -> 3 -> 5 -> NULL, K = 12

Output: 7 -> 9 -> 11 -> 13 -> 3 -> 5 -> NULL

Example 3

Input: 7 -> 4 -> 8 -> 11 -> 2 -> 1 -> NULL, K = 4

Output: 8 -> 11 -> 2 -> 1 -> 7 -> 4 -> NULL