Assignment 03

Instructor: Mehrdad Nojoumian

Course: Data Structure and Algorithm Analysis

Deadline: July 25

Please submit code in C++, Java or the language of your choice for the following. Use the code examples from the lectures for defining and creating nodes, then add the required operations.

1. Design and Implement a single linked list with the following operations, lectures single linked list 01 and 02 have example code/pseudocode for each operation.

      a- Create "n" nodes

      b- Delete from the middle

      c- Insert in the middle

2. Design and Implement a double linked list with the following operations. Your code should be based on code and pseudocode provided in the lecture "double linked list"

      a- Create "n" nodes

      b- Delete from the end

      c- Insert at the beginning

Other Requirements: Do not copy and paste code found using google, your code should be your own work based on lectures single linked list 01, single linked list 02 and double linked list. Please comment your code, this will help ensure the grader understands what you are trying to do if anything doesn't work correctly allowing partial credit to be given.

Submission Instructions: Your submission should consist of the code you write for both (1) and (2). You should submit your code to Canvas by either placing the code into a single document, submitting multiple files or making a zip of your files.