Assignment 6 Part 1 – Undirected Graph Representation and Traversal Algorithms Spring 2025

Due: Thursday, Apr 17 11:59 pm

To-do

Download the base code *graph* containing both adjacency list and adjacency matrix representation of Graphs using linked lists that we covered in class from D2L. Using this base code complete the following tasks.

- Task 1: Implement removeEdge() function.
- Task 2: Implement bfsM() function.
- Task 3: Implement dfsL() function.
- Task 4: Implement dfsM() function.

* Extra-credit opportunity [+10 points] *

Implement one of the following functions from the given choices below:

- detectCycle() OR connectedComponents()

Total Points (50)

- Code runs and works as expected Task 1: 15 points
- Code runs and works as expected Task 2: 10 points
- Code runs and works as expected Task 3: 10 points
- Code runs and works as expected Task 4: 10 points
- Proper commenting: 2 points
- Available on GitHub: 3 points

Deliverables:

- A zipped folder named A6_P1 that contains all the files submitted to D2L dropbox
 - C++ files and header files

- o README.txt file
- o A screenshot showing the functions work.
- Published to GitHub under the folder where you added me as a collaborator.