

# CIS\*2520 Data Structures

Fall 2018

## Assignment 2 Guideline

Assignment 2 is due on Monday October 15, 2018.

For question 1, you should create three ordered lists and functions for the required operations including insertion, deletion, transfer, etc. For question 2, you could create a stack to store operands, intermediate results, and final results, when the input is scanned from left to right.

Create two C files for the two questions respectively, for example, *q1.c* and *q2.c*. Create a makefile for compiling the programs. The makefile should be able to generate two executable files, for example, *q1* and *q2*.

**Please note** that for Assignment 1, there were no requirements for what flags should be included during compilation. For future assignments (including Assignment 2), it is required that all students compile with “gcc -Wall -std=c99 -pedantic”.

Your submission may include something like *readme.txt*, *q1.c*, *q2.c*, *makefile*, and for question 1 the data file for initializing and/or restoring the lists.

Any compilation error or warning will result in a mark deduction appropriate to the severity of the error. There will be some marks allocated for style and documentation, but the majority will be for the execution of the programs. Each file should have a comment at the beginning containing your name, id, the date, and the assignment name.

For the readme file, it should contain the following:

- name, id and assignment number.
- a brief description of how to run each program, e.g. any command line arguments needed.
- sample output demonstrating the proper functioning of the program.

For each of the C files, any function should have a brief comment describing its purpose. Also, any section of code where it is not easily apparent what the code does should have a short comment. Dont forget indentation.