

COMP 2160 Programming Practices Assignment 2

Assignment 1

Due Date: Nov 2th at 11:59 pm

Objectives

- Design by Contract

Question 1

A concordance stores every word found in a document (without duplicates). `concordLLStart.c` implements a concordance but is missing the code for a number of key routines (prototypes provided). You must provide the implementation of a linear linked list (storing strings) via these routines.

Requirements

You **must** apply the principles of Design by Contract to your code. Include all pre and post conditions that must be met by the prototyped routines.

You need to include adequate coding to ensure that the program will not crash if the assertions are turned off. To turn off assertions, you compile with `-DNDEBUG` (make sure you test with assertions turned off!).

The comment prior to each prototype serves as the specifications for that routine. Your implementation **must** adhere to the specification. For example, the insert simply inserts at the beginning of the list (without performing a search).

The marker will use `relativity.txt` to test your program.

Don't worry about punctuation when processing the file -- tokenizing based on whitespace is fine.

Hand-in Instructions

Go to COMP2160 in UMLearn, then click “Dropbox” (under “Assessments” menu). You will find a dropbox folder called “HW2”. Click the link and follow the instructions. Please note the following:

- Submit ONE zip file containing your source codes. Although not required, you may also include a README (README.txt) to explain anything unusual about compiling/running your program. The marker MAY consider this information. Please name the zip file as `A1<your last name><your student id>.zip` (e.g. `A2Wang1234567.zip` or `A2Seo7654321.zip`).
- You may resubmit your assignment, but ONLY THE LASTEST submission will be kept.
- We only accept homework submissions via UMLearn. Please DO NOT try to email your homework to the instructor or TAs.
- We reserve the right to refuse to grade the homework or to deduct marks if these instructions are not followed.

If you have not submitted the Honesty Declaration form digitally in UMLearn, you will not be able to see “HW2” submission folder.