

CIS*2520 Data Structures

Fall 2018

Assignment 1 Guidelines

Assignment 1 is due on Monday September 24, 2018.

You can develop your programs using any C system, as long as your programs can be correctly compiled and executed on the Linux system in SoCS for grading.

You are allowed to use standard library functions. The assignment should be submitted as a tar file containing the source code for each question as well as a readme file. There should be a main program (main.c) that calls functions for the three questions (carbon.c, ackermann.c and newton.c). There should also be a makefile to compile the programs. Your submission may include something like

readme.txt main.c, carbon.c, ackermann.c, newton.c, makefile.

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.

The readme file 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. Don't forget indentation.