Hi everyone,

A gentle reminder that programming project # 2 is due on March 10. You might want to get a head start on it if you haven't already done so. There are many moving parts to the project so the earlier you start doing it, the better. If you have questions concerning the project, I will be in during my regular office hours all week, don't hesitate to come by.

I am currently grading your exams. I should be done grading them by Wednesday. I will let you know when they are available for pickup.

This week we begin discussing the Graph abstract data structure. We will discuss an extensible adjacency-linked-list-based weighted digraph implementation. I will provide most of the code for the last project, including a significant portion of the main. You will have to augment the code for your last project. The last project will involve the implementations of some of the graph-related algorithms that we discuss in class in the coming days: at least one minimum spanning tree, one shortest path algorithm and some other elementary algorithms will be included. The project will likely also involve one or more graph traversal algorithms; that is either depth-first-search traversal or breadth-first-traversal or both. I will implement both methods for you so if they are in the project, you will simply have to provide them a lambda function as an argument in the function call.

Lots of examples will be done of the board in class to help you visualize how the graph-related algorithms work. Be able to do hand-traces of these algorithms as we study them in the next few weeks. Use the link to the visualization tool that I have on Moodle. Links to visualizations for all the data structures that we have studied and will study can be found on that website.

Regards,

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