

Due at the start of class Friday, July 1, 2011.

Problem 1. Do Exercise 24.3-1 on page 662 of CLRS.

Problem 2. Give a simple example of a directed graph with negative weight edges, but no negative weight cycles, for which Dijkstra's algorithm produces incorrect answers.

Problem 3. Do Exercise 24.3-8 on page 664 of CLRS.

Problem 4. Give a linear time algorithm to determine if an undirected graph is 2-colorable, and if so find a 2-coloring.