Homework 11, Basic Algorithms, Spring 2014.
Due date: Tuesday, April 22.

Problems 8.3, 8.20a,b, 8.32a,c (not part b), 8.39a,b, 8.42, 8.55 from the text.
For problem 8.32a it suffices to explain how to apply a shortest path algorithm; also, let
$D[1:n]$ be the array used to store the output from part a. For problem 8.42, assume that
there are no length zero cycles. For problem 8.55, PathCost is the array we called S in class;
you may also assume that all cycles have positive length for this problem. For each problem
that asks for an algorithm please explain briefly what the running time is (i.e. state the
running time and justify it).

**Honors Section.** Problem 8.34, 8.41 from the text.