

CS 5114

Homework Exercise 3

Given: February 3, 2000

Due: February 11, 2000

The point value of each problem is shown in []. Each solution must include all calculations and an explanation of why the given solution is correct. In particular, write complete sentences. A correct answer without an explanation is worth no credit. The assignment must be *submitted* to the instructor by 12:00 noon on February 11, 2000. See syllabus for late policy.

Electronic preparation of your solutions in \LaTeX is mandatory. Here is the suggested procedure.

Retrieve this \LaTeX source file `homework3.tex` from the 5114 Web pages and rename it `solvehw3.tex`. Delete these instructions. Enter your solutions in the locations explained by \LaTeX comments (%). Also enter your name in the `\student` command and uncomment the line near the beginning of the file that uses the `\student` command. When you are satisfied with your solutions, print a copy and turn it in during class or no later than noon on February 11, 2000.

Electronic submission is optional. If you use electronic submission, send an email to `cs5114@courses.cs.vt.edu` with subject `Solutions to Homework Assignment 3` and with two attachments: `solvehw3.tex` and `solvehw3.ps`. Your email must be *received* by 12:00 noon on February 11, 2000.

[10] 1. CLR Exercise 16.1-1. Give the filled-in m and s tables.

[10] 2. CLR Exercise 16.3-1. Give the filled-in c and b tables.

[10] 3. CLR Exercise 16.3-2. Give pseudocode for your algorithm to reconstruct the LCS.

[10] 4. CLR Exercise 16.4-4 Recall that an octagon is an 8-sided polygon. So a regular octagon is a “stop sign.”
