

# CS 5114

## Homework Exercise 8

**Given:** April 15, 2000

**Due:** April 28, 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 April 28, 2000. See syllabus for late policy.

Electronic preparation of your solutions in L<sup>A</sup>T<sub>E</sub>X is mandatory. Here is the suggested procedure.

Retrieve this L<sup>A</sup>T<sub>E</sub>X source file `homework8.tex` from the 5114 Web pages and rename it `solvehw8.tex`. Delete these instructions. Enter your solutions in the locations explained by L<sup>A</sup>T<sub>E</sub>X 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 April 28, 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 8` and with two attachments: `solvehw8.tex` and `solvehw8.ps`. Your email must be *received* by 12:00 noon on April 28, 2000.

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[10] 1. CLR Exercise 36.2-3.

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[15] 2. CLR Exercise 36.5-2.

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[15] 3. CLR Exercise 36.5-7.

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[20] 4. CLR Problem 36-1.

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