

*Submission instructions: Please type your answers and submit electronic copies using `turnin` by 5pm on the due date. You may use any number of word processing software (e.g., Framemaker, Word,  $\text{\LaTeX}$ ), but the final output must be in pdf or ps format that uses standard fonts (a practical test is to check if the pdf/ps file prints on a CS Department printer without problem). For experiments and programming assignments that involve output to terminal, please use `script` to record the output and submit the output file. Use `gnuplot` to plot graphs. Use `ps2gif` to convert a eps/ps plot to gif format (e.g., for inclusion in Word) if there is a need.*

**PROBLEM 1**

Read Chapters 1, 2 and 4 from Comer.

**PROBLEM 2** (75 pts)

Carry out the experiments specified in <http://www.cs.purdue.edu/~park/cs422-hw1-07f.html>. Consult the TA notes (<http://www.cs.purdue.edu/homes/heoh/422>) for any additional information.