CS 3824
Homework Assignment 1

Given: August 19, 2011 **Due:** September 8, 2011

General directions. The point value of each problem is shown in [ ]. Each solution must include all details 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 completed assignment must be turned in during class on September 8, 2011. **No late homework will be accepted.**

Digital preparation of your solutions is mandatory. Use of LaTeX is optional, but encouraged. No matter how you prepare your homework, **please include your name.**

Use of LaTeX (optional, but encouraged).

- Retrieve this LaTeX source file, named `homework1.tex`, from the course web site.
- Rename the file *<Your VT PID>*`_solvehw1.tex`, For example, for the instructor, the file name would be `heath_solvehw1.tex`.
- Use a **text editor** (such as `vi`, `emacs`, or `pico`) to accomplish the next three steps.
- Uncomment the line

  `% \setboolean{solutions}{True}`

  in the document preamble by deleting the `%`.
- Find the line

  `\renewcommand{\author}{Lenwood S. Heath}`

  and replace the instructor's name with your name.
- Enter your solutions where you find the LaTeX comments

  `% PUT YOUR SOLUTION HERE`
- Print out and submit your solutions in class on September 8, 2011.

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[50] 1. Jones and Pevzner problem 4.2.
Explain how you solve this instance of PDP. You may want to write a program to do it.

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[50] 2. Jones and Pevzner problem 4.5.
Be certain you have two convincing arguments, one for each set.
