

CS 3824

Homework Assignment 1

Given: January 26, 2010

Due: February 4, 2010

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 placed inside the box labeled “CS 3824” outside 2160J Torgersen by 4:00 PM EST on February 4, 2010. **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 by 4:00 PM on February 4, 2010.
-

[30] 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.

[30] 2. Jones and Pevzner problem 4.5.

Be certain you have two convincing arguments, one for each set.
