

CS 3824

Homework Assignment 2

Given: September 5, 2011

Due: September 15, 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 15, 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 `homework2.tex`, from the course web site.
 - Rename the file `<Your VT PID>_solvehw2.tex`, For example, for the instructor, the file name would be `heath_solvehw2.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 September 15, 2011.
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[50] 1. Jones and Pevzner problem 5.4.

You should use the algorithm IMPROVEDBREAKPOINTREVERSALSORT instead of BREAKPOINTREVERSALSORT.

[50] 2. Jones and Pevzner problem 5.11.

Explain the reasoning behind your answers.
