CS 3824
Homework Assignment 6

Given: April 16, 2010 **Due:** May 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 May 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 `homework6.tex`, from the course web site.
- Rename the file <*Your VT PID*>`_solvehw6.tex`, For example, for the instructor, the file name would be `heath_solvehw6.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 May 4, 2010.

---

[25] 1. Jones and Pevzner problem 9.12.

Let $t = t[1..n]$ be the text string. Use a suffix tree for $t\$$ in your algorithm. Give its time complexity.

---

[25] 2. Jones and Pevzner problem 11.4.

Assume that the first state is α.
