

CS 3824

Homework Assignment 3

Given: September 17, 2014

Due: October 11, 2014

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 as a PDF through Scholar by 5:00 PM on October 11, 2014. **No late homework will be accepted.**

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

Use of L^AT_EX (optional, but encouraged).

- Retrieve this L^AT_EX source file, named `homework3.tex`, from the course web site.
- Rename the file `<Your VT PID>_solvehw3.tex`, For example, for the instructor, the file name would be `heath_solvehw3.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 L^AT_EX comments
`% PUT YOUR SOLUTION HERE`
- Convert your solutions to PDF and submit your solutions through Scholar by 5:00 PM on October 11, 2014.

	0 G	1 G	2 A	3 C	4 G	5 T	6 A	7 C	8 G
0									
1 T									
2 A									
3 C									
4 G									
5 G									
6 G									
7 T									
8 A									
9 T									

Figure 1: \LaTeX template for dynamic programming in second problem.**[50] 1. Jones and Pevzner problem 6.20.**

Only do the first two bullets. Figure 1 contains a \LaTeX template to fill in twice, once for the first bullet and once for the second bullet.

[50] 2. Jones and Pevzner problem 6.32.

Follow the dynamic programming paradigm. Give pseudocode for the resulting algorithm.
