COS 397 Fall 2016 Class Exercise 2 2016-09-06
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Today: sed; technical tutorials; project ideas.
Next class: build systems: make, etc.; project discussions.
Reminders: Meet with potential advisors; discuss project details.

1. List the members of your group below. Underline your name.
2. Indicate the output of each of the following. Explain your answers briefly, focusing on the interesting aspects.
(a) echo 42 is the answer $\mid$ sed 's/[0-9]*/\&\&/'
(b) echo the answer is 42 | sed 's/[0-9]*/\&\&/'
(c) echo 42 is the answer | sed 's/[0-9]*/\&\&/g'
(d) echo the answer is 42 | sed 's/[0-9]*/\&\&/g'
(e) sed -n 's/a/A/2pw /tmp/file' <old >new
3. Comment on the presentation aspects of the sed tutorial.
4. Provide sed commands for each of the following. Explain your answers briefly.
(a) Replace all negative numbers that use the minus-sign notation (e.g., ' -173.289 ') with equivalent ones using the parenthesized notation sometimes used in financial documents (e.g., '(173.289)').
(b) Print exactly those input lines that contain a 5-letter palindromic word.
(c) Read a file datafile containing one integer per line and write to 10 files dat0 through dat9 such that the file dati consists of the input lines that have numbers whose last digit is $i$.
(d) Replace all instances of $/$ mydir $/ x / y / z$ (for any values of the variables $x, y$, and $z)$ with /mydir/z/y/x on input lines whose first nonblank character is \#.
