

## CSSE 332 -- OPERATING SYSTEMS

## vim and tmux Tutorial

Name: \_\_\_\_\_

**1** vim Tutorial

The questions below cover our (brief) tutorial on the vim (we'll actually use neovim). Please note that the questions below will serve as your own cheat sheet for vim that you can consult at any point during the quarter.

**Question 1.** (1 point) In the space below, list out the three main modes of operation for vim that we will be using in this class.

**Question 2.** (4 points) To go from insert mode to normal mode, you can use the \_\_\_\_\_ key. To enter insert mode from normal mode, you can use the \_\_\_\_\_ key. Finally, to go into command-line mode from normal mode, you can use the \_\_\_\_\_ key. And when in panic, hit the \_\_\_\_\_ key.

**Question 3.** (2 points) Fill out the table below with the actions that each command allows you to do. Assume that we start from **normal** mode and we would like to enter **insert** mode.

Key	Action
i	
a	
A	
o	
O	
r	
R	

**Question 4.** (8 points) Fill out the table below with the actions that each command allows you to do. Assume all of these keys are hit while staying in **normal** mode. Please note that when we write **c-r**, this mean hold the **Control** key and then press the **r** with it. Similarly, when we write **s-g**, this mean hold the **Shift** key and then press the **g** key alongside it.

Key	Action
l	
h	
j	
k	
w	
e	
u	
c-r	
zz	
dd	
yy	
dw	
de	
gg	
s-g	
\$	
^	
0	
~	

**Question 5.** (2 points) To save a file, you can use the command \_\_\_\_\_ in command-line mode. To quit **vim**, you can use the command \_\_\_\_\_. To save **and** quit, you can use **:x** or \_\_\_\_\_. Finally, if you have modified a file and you wish to quit **without saving**, you can use the \_\_\_\_\_ command.

## 2 `tmux` Tutorial

The questions below cover our (brief) tutorial on `tmux`. Please note that the questions below will serve as your own cheat sheet for `tmux` that you can consult at any point during the quarter.

**Question 6.** (10 points) For each of the actions below, please write down the command that you should use to perform it in `tmux`. Please use the following syntax: `<prefix>, key` where `prefix` is the `tmux` prefix and `key` is the key you will need to press after the prefix.

Action	Combination
Create a vertically split pane	
Create a horizontally split pane	
Move to the pane on the right	
Move to the pane on the left	
Move to the pane on below	
Move to the pane on above	
Kill the current pane	
Create a new window	
Rename the new window	
Move to the next window	
Move to the previous window	
Move to the window 1	
Move to the window 3	
Toggle window layout	
Enter scroll/copy mode	
Paste from copy mode	
Detach from current window	
Enter interactive window manager	
Show the help page	