Feedback — HW3 Quiz: Linux, Command Line, Dev Environment, Git

You submitted this quiz on **Mon 8 Jul 2013 9:45 PM SGT (UTC +0800)**. You got a score of **15.00** out of **15.00**.

This quiz covers topics from Lecture 2, 3, 4A, and 4B.

Question 1

What tool is most appropriate for changing all instances of `foo` to `bar` in a file?

Your Answer		Score	Explanation
⚪ `lsof`			
⚪ `cut`			
⚪ `paste`			
⚪ `tail`			
⦿ `sed`	✔	1.00	
Total		1.00 / 1.00	

Question 2

What is the result of running:

```
yes | nl | head | tail -n +10 | awk '{print $1}'
```

You entered:

```
10
```

Your Answer		Score	Explanation
10	✔	1.00	

Total	1.00 / 1.00

Question 3

Which of the following tools is most appropriate for debugging a linking issue? (Note: for this question, you should Google each of these commands and figure out which one applies; the rest of the questions will only cover commands from the lecture, but Googling commands is a very frequent exercise.)

Your Answer		Score	Explanation
⚪ lpr			
⚪ lsof			
⦿ ldd	✔	1.00	
⚪ lzcat			
⚪ ln			
Total		1.00 / 1.00	

Question 4

Which of the following command/flag combinations enable the use of multiple processors?

Your Answer		Score	Explanation
⦿ xargs -P	✔	1.00	
⚪ top -o			
⚪ less -R			
⚪ ls -t			
⚪ grep -a			
Total		1.00 / 1.00	

Question 5

Which of the following commands will list all python files containing the string `asdf` under the current directory?

Your Answer		Score	Explanation
⬤ `locate 'py' | grep 'py$' | grep -a asdf`			
⬤ `python -c 'import os, re; print [xx for xx in os.listdir(".") if re.search("py$",xx)]'`			
⬤ `head *py | grep asdf`			
⦿ `find -type f -name '*py' -print0 | xargs -0 grep -l -i 'asdf'`	✔	1.00	
⬤ `ls -alrth 'asdf.*py'`			
Total		1.00 / 1.00	

Question 6

You have a five million row table in tab-delimited text format named `foo.txt`. Which of the following commands would be useful for finding the sum of the values in the fifth column, taken over all rows which have the phrase `transcription factor` as the entry in their third column?

Your Answer	Score	Explanation
⬤ `arch`		
⦿ `awk`	✔ 1.00	
⬤ `asr`		
⬤ `sed`		
⬤ `agrep`		
Total	1.00 / 1.00	

Question 7

The next few questions refer to the genomic data set NC_007779.ptt.

You can retrieve it via `wget` `https://spark-`

`public.s3.amazonaws.com/startup/data/NC_007779.ptt`

`-`

What does the following command do?

```
curl -s https://spark-
public.s3.amazonaws.com/startup/data/NC_007779.ptt | wc -l
```

Your Answer		Score	Explanation
⚪	Compiles the ptt file into an executable		
⦿	Counts the number of lines in the ptt file	✔ 1.00	
⚪	Prints out the contents of the ptt file.		
⚪	synchronizes the remote ptt file with the local copy		
⚪	Sends the ptt file to the remote server		
	Total	1.00 / 1.00	

Question 8

Which of the following commands counts the number of rows in `NC_007779.ptt` that have the word 'protein' in them?

Your Answer		Score	Explanation
☐	`grep -v protein NC_007779.ptt | wc -l`	✖ 0.00	
☐	`grep protein NC_007779.ptt | wc -L`	✖ 0.00	this prints the length of the longest line.
☐	`find protein NC_007779.ptt | wc -L`	✖ 0.00	
☑	`cat NC_007779.ptt | grep protein | wc -l`	✔ 0.50	

☑ `grep protein NC_007779.ptt | wc` ✔ 0.50
`-l`

Total		1.00 / 1.00

Question 9

Which of the following commands prints the 123rd line of `NC_007779.ptt`?

Your Answer		Score	Explanation
☑ `sed -n '123p' NC_007779.ptt`	✔	0.33	
☐ `grep -n 123 NC_007779.ptt`	✖	0.00	
☑ `cat NC_007779.ptt	head -123	tail -1`	✔	0.33	
☑ `awk 'NR==123' NC_007779.ptt`	✔	0.33	
Total		1.00 / 1.00	

Question 10

Which of the following prints the number of bytes in `NC_007779.ptt`?

Your Answer		Score	Explanation
⦿ `wc -w NC_007779.ptt`			
⦿ None of the above			
⦿ `wc NC_007779.ptt &`			
⦿ `echo \`wc -c NC_007779.ptt\``	✔	1.00	
Total		1.00 / 1.00	

Question 11

Which command would you use to create a symbolic link to a file?

Your Answer	Score	Explanation
⚪ rsync		
⚪ sl		
⚪ touch		
⚪ du		
⦿ ln -s	✔	1.00
Total	1.00 / 1.00	

Question 12

Which `git` command syncs the remote repository with all the changes you've made in your local git repository?

Your Answer	Score	Explanation
⚪ git init		
⦿ git push	✔	1.00
⚪ git remote		
⚪ git commit		
Total	1.00 / 1.00	

Question 13

For your new startup, you plan to commit your git repository to two different locations. (eg. github and heroku)

Say you have already pushed your local repository to github and would now like to push it heroku as well.

Which of the following `git` commands would you use to accomplish this?

Your Answer	Score	Explanation

⦿ `git remote add`   ✔   1.00

○ `git pull`

○ `git reset`

○ `git clone`

Total   1.00 / 1.00

Question 14

What is the SHA-1 hash of the first commit of the git repository

`https://github.com/startup-class/setup.git`?

Hint: You might find `git log` useful.

You entered:

50ff86b66254abeb42b2aa5eabe915e18c359ac0

Your Answer		Score	Explanation
50ff86b66254abeb42b2aa5eabe915e18c359ac0	✔	1.00	
Total		1.00 / 1.00	

Question 15

Why is it good practice to have a `setup.git` and `dotfiles.git`?

Your Answer		Score	Explanation
⦿ It makes it easy to rebuild a remote environment just like the one you've been using, and eases deployment.	✔	1.00	
○ `setup.git` and `dotfiles.git` work as branches of your code so you and your team mate can work on different things concurrently.			
○ You can have at most one `setup.sh` in one git repository and so we use `setup.git` and `dotfiles.git` to store the other			

setup configuration files.

  ⬤ It makes sense to stored copies of important files in multiple git repositories in case they get lost.

Total	1.00 / 1.00