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

You submitted this quiz on **Wed 4 Sep 2013 11:35 PM PDT (UTC -0700)**. You got a score of **15.00** out of **15.00**. However, you will not get credit for it, since it was submitted past the deadline.

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			
◯ tail			
◯ cut			
◯ paste			
⦿ 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			
◯ lzcat			
◯ lsof			
◉ ldd	✔	1.00	
◯ 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	
◯ ls -t			
◯ top -o			
◯ less -R			
◯ 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$' | grep -a asdf			
⦿ find -type f -name '*py' -print0 | xargs -0 grep -l -i 'asdf'	✔	1.00	
◯ python -c 'import os, re; print [xx for xx in os.listdir(".") if re.search("py$",xx)]'			
◯ head *py | grep asdf			
◯ 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			
⚪ sed			
⦿ awk	✔	1.00	
⚪ asr			
⚪ 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

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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

⚪ synchronizes the remote ptt file with the local copy

🔘 Counts the number of lines in the ptt file   ✔   1.00

⚪ Prints out the contents of the ptt file.

⚪ 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	
☑ cat NC_007779.ptt | grep protein | wc -l	✔	0.50	
☐ 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	
☑ grep protein NC_007779.ptt | wc -l	✔	0.50	
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	
☑ cat NC_007779.ptt | head -123 | tail -1	✔	0.33	
☐ grep -n 123 NC_007779.ptt	✘	0.00	
☑ 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			
◯ wc NC_007779.ptt &			
◯ None of the above			
◉ 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			
○ du			
○ sl			
○ touch			
◉ 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 remote			
◉ git push	✔	1.00	
○ 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 reset			
◯ git pull			
◯ 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	
◯ 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.			
◯ setup.git and dotfiles.git work as branches of your code so you and your team mate can work on different things concurrently.			
◯ It makes sense to stored copies of important files in multiple git repositories in case they get lost.			
Total		1.00 / 1.00	