

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

You submitted this quiz on **Mon 8 Jul 2013 9:11 PM PDT (UTC -0700)**. 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
<input type="radio"/> <code>tail</code>		
<input type="radio"/> <code>paste</code>		
<input type="radio"/> <code>cut</code>		
<input checked="" type="radio"/> <code>sed</code>	✓ 1.00	
<input type="radio"/> <code>lsof</code>		
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
<input type="radio"/> lzcat			
<input checked="" type="radio"/> ldd	✓	1.00	
<input type="radio"/> lsof			
<input type="radio"/> ln			
<input type="radio"/> lpr			
Total		1.00 / 1.00	

Question 4

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

Your Answer	Score	Explanation
<input type="radio"/> <code>ls -t</code>		
<input type="radio"/> <code>less -R</code>		
<input type="radio"/> <code>top -o</code>		
<input type="radio"/> <code>grep -a</code>		
<input checked="" type="radio"/> <code>xargs -P</code>	✓ 1.00	
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
<input checked="" type="radio"/> <code>find -type f -name '*py' -print0 xargs -0 grep -l -i 'asdf'</code>	✓ 1.00	
<input type="radio"/> <code>head *py grep asdf</code>		
<input type="radio"/> <code>python -c 'import os, re; print [xx for xx in os.listdir(".") if re.search("py\$",xx)]'</code>		
<input type="radio"/> <code>ls -alrth 'asdf.*py'</code>		
<input type="radio"/> <code>locate 'py' grep 'py\$' grep -a asdf</code>		
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
<input type="radio"/> <code>sed</code>		
<input type="radio"/> <code>asr</code>		
<input checked="" type="radio"/> <code>awk</code>	✓ 1.00	
<input type="radio"/> <code>agrep</code>		
<input type="radio"/> <code>arch</code>		
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
<input type="radio"/> synchronizes the remote ptt file with the local copy		
<input type="radio"/> Prints out the contents of the ptt file.		
<input checked="" type="radio"/> Counts the number of lines in the ptt file	✓ 1.00	

- ☒ Sends the ptt file to the remote server
- ☐ Compiles the ptt file into an executable

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
<input checked="" type="checkbox"/> cat NC_007779.ptt grep protein wc -l	<input checked="" type="checkbox"/> 0.50	
<input type="checkbox"/> find protein NC_007779.ptt wc -L	<input type="checkbox"/> 0.00	
<input type="checkbox"/> grep protein NC_007779.ptt wc -L	<input type="checkbox"/> 0.00	this prints the length of the longest line.
<input checked="" type="checkbox"/> grep protein NC_007779.ptt wc -l	<input checked="" type="checkbox"/> 0.50	
<input type="checkbox"/> grep -v protein NC_007779.ptt wc -l	<input type="checkbox"/> 0.00	
Total	1.00 / 1.00	

Question 9

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

Your Answer	Score	Explanation
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<input checked="" type="checkbox"/> <code>awk 'NR==123' NC_007779.ptt</code>	✓	0.33
<input checked="" type="checkbox"/> <code>sed -n '123p' NC_007779.ptt</code>	✓	0.33
<input type="checkbox"/> <code>grep -n 123 NC_007779.ptt</code>	✗	0.00
<input checked="" type="checkbox"/> <code>cat NC_007779.ptt head -123 tail -1</code>	✓	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
<input checked="" type="radio"/> <code>echo `wc -c NC_007779.ptt`</code>	✓ 1.00	
<input type="radio"/> <code>wc -w NC_007779.ptt</code>		
<input type="radio"/> None of the above		
<input type="radio"/> <code>wc NC_007779.ptt &</code>		
Total	1.00 / 1.00	

Question 11

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

Your Answer	Score	Explanation
<input type="radio"/> <code>du</code>		
<input type="radio"/> <code>touch</code>		
<input type="radio"/> <code>sl</code>		

<input checked="" type="radio"/> ln -s	✓	1.00
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<input type="radio"/> rsync		
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Total		1.00 / 1.00
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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
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<input type="radio"/> git commit		
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<input type="radio"/> git init		
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<input checked="" type="radio"/> git push	✓	1.00
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<input type="radio"/> git remote		
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Total		1.00 / 1.00
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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
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<input type="radio"/> git clone		
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<input checked="" type="radio"/> git remote add	✓	1.00
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☐ git pull☐ git reset

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`?

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

☒ 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.

Total	1.00 /
	1.00