Knowledge Test K4

COMP 4081 • Software Engineering • Fall 2019

Name:	<u>,</u>				
	Last name		First name		

Rules:

- No potty breaks.
- Turn off cell phones/devices.
- Closed book, closed note, closed neighbor.
- <u>WEIRD!</u> Do not write on the backs of pages. If you need more pages, ask me for some.

Reminders:

- Verify that you have all pages.
- Don't forget to write your name.
- Read each question <u>carefully</u>.
- Don't forget to answer every question.

1.	[1] In Figure 1, which bran	nch was the user on when the	ney made commit 2e1ec?	
2.	[1] In Figure 1, which bran	nch was the user on when th	ney made commit 98d8b?	
3.	[1] In Figure 1, which bran	nch was the user on when th	ney made commit 5ab3b?	
4.	[1] In Figure 1, which vers	sion (commit) of the project	is currently in the user's worki	ng directory?
5.	[1] In Figure 1, which bran	nch is the user currently on?	,	
6.	[1] In Figure 1, which is th	ne oldest commit?		
7.	[2] In Figure 1, at the point	•	? (Fill in the blanks to answer.)	
	(a branch)	(a verb, past ter	nse)	(a branch)

8.	[2] Based on Figure 1, list all the commits that are in both the master branch's version history ar	ıd
	the iss1 branch's version history.	

Each of the following problems presents a Git log graph (log messages omitted) of a local repo and a scenario. Give the updated graph that would result from each scenario.

- If you need to add a commit, use the hash clclc.
- If a command would be rejected by GitHub (e.g., because the remote contains work that you do not have locally), write "REJECTED" on the top line.
- Assume that all remote bookmarks depicted are up to date.
- 9. [5] Scenario: Developer makes changes to the code, stages the changes, and commits.

```
* 37da5 (master)
| * a9e9c (HEAD -> iss1)
| * 3f2fd
|/
| * dc268
```

10. [5] Scenario: Developer runs git checkout -b iss2.

```
* 37da5 (master)
| * a9e9c (HEAD -> iss1)
| * 3f2fd
| /
| * dc268
```

11. [5] Scenario: Developer runs git merge master. Assume that auto-merge, if used, would complete successfully with no merge conflicts.

```
* 37da5 (master)
| * a9e9c (HEAD -> iss1)
| * 3f2fd
|/
| * dc268
```

12. [5] Scenario: Developer runs git merge iss1. Assume that auto-merge, if used, would complete successfully with no merge conflicts.

```
* 37da5 (iss2)
| * a9e9c (iss1)
| * 3f2fd
|/
* dc268 (HEAD -> master)
```

Bonus Problems

1.	[3] Would the scenario in question 11 result in a fast-forward merge? Explain why.
2.	[3] Would the scenario in question 12 result in a fast-forward merge? Explain why.

Figures

Figure 1