

Review for Quiz 1

Welcome back to CS 2100!

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Quiz 1 Topics

Git

- What is a repo? What is remote / local?
- `git clone <url>` copies the remote repo to your computer
- `git add <filename>` stages the changes in the file, and `git add .` stages all changes in the directory
- `git commit -m "message"` commits the staged changes
- `git push` pushes all local commits to the remote repo
- `git pull` copies all commits from the remote repo to your local repo which are not already there

Functions and documentation

- Documentation elements (description, arguments, returns, errors)
- Defining functions with types
- Conditionals and iteration
- `None` and `Optional`

Unit testing

- `self.assertEqual()`, `self.assertTrue()`, and `self.assertRaises()`
- Identifying test cases

We will not ask you to test functions that print things or take user input on the exam.

Git vocab

- Repository (repo): a set of code and its history
 - local: on your computer
 - remote: on another computer (like GitHub)
- Commit
 - the codebase at a given point in time (noun)
 - to add a set of changes to the repository (verb)
 - Push: to move code from a local to remote repository

Git commands

Location	Definition	git command to put code there	Postal analogy
working area	code that you are currently writing / saving in VSCode		Writing on a paper
staging area	code that is ready to be committed	<code>git add <filename></code> or <code>git add .</code>	Add a stamp and put it in your backpack
local repository	code that has been committed	<code>git commit -m "description"</code>	Put all stamped cards in the mailbox
remote repository	code on GitHub	<code>git push</code>	Workers move cards to destinations
	copy repo from remote to local	<code>git clone <url></code>	Buying special "letter-writing paper"
	copy all commits from remote to local which are not already there	<code>git pull</code>	Getting a copy of anything anyone else sent to your destination

Practice Quiz 1

Practice Quiz 1: [https://github.com/neu-pdi/cs2100-public-resources/tree/main/docs/quizzes/26sp/Practice Quiz 1.pdf](https://github.com/neu-pdi/cs2100-public-resources/tree/main/docs/quizzes/26sp/Practice%20Quiz%201.pdf)

Solution to Practice Quiz 1: <https://github.com/neu-pdi/cs2100-public-resources/tree/main/docs/quizzes/26sp/pq1.py>

Homework help: Git / command line / Pawtograder review

Helpful reminders:

- How to test functions that take user input or print things (mock the user)
- Tests in `tests/test_*.py` should pass on *anyone's* implementation, not just yours. (Don't make the tests specific to your chosen additional questions). Tests specific to your implementation should go in `tests/impl_*.py`.
- For testing additional questions (especially generic, non-specific tests), use `dict`

Poll:

- 1. What is your main takeaway from today?**
- 2. What would you like to revisit next time?**