Design Document

- 1. How is your .gitlet directory structured? What files / classes are you using to represent your repository state, and what information is contained in these files / classes?
- .gitlet
 - Blobs (dir with files named with hashcodes of tracked files)
 - Commits (dir with files named with hashcodes of Commit objects)
 - Stage (dir with file names, each file has content written as blob)
 - Head (file, content is the hash of the current branch)
 - Main (file, content is the hash of the current commit)
- 2. What is the process of adding a file then committing? How does your .gitlet directory change after adding; then after committing?
 ✓ Initial commit 0
 ✓ Create repo
 ✓ Commit with metadata
 ✓ Main points to commit
 ✓ Head ID updated
 ✓ Adding file
 ✓ DONT stage if committed version is identical; in that case, remove from stage if it's already there
 ✓ Staged for addition, contents saved in blob
 ✓ Blobs saved
 ✓ Stage saved
 ✓ Committing
 - ☑ Commit 1 created with metadata
 - Pointer to blob (contents of file unique ID created from hashing)
 - ☑ Blobs: files, parent, msg, time
 - ☑ SAME FILE CONTENTS, BUT ADDITION AND REMOVAL UPDATED
 - ₩atch for date and message
 - ✓ Clear the stage!

 - ✓ Main points to Commit 1
 - ☑ Head ID updated
 - **☑** Reference to parent commit
 - ☑ No files → No changes added to the commit.
 - ✓ No msg → Please enter a commit message.

\checkmark	Checkout	
	☑ Ro	eference to head ID
	☑ Us	se Hashmap on Commit to find the right info
	✓ ₩	rite to object in CWD
\checkmark	Cheekout [ID]	
	✓ Sa	me thing, but find the reference to the commit
□ Log		
	☐ Fii	nd references to all commits, print using Commit class
	□ co	mmit.getMessage(), etc.

- 3. How does your design support operations that rely on branches? You should explicitly account for branch, checkout [branch name], and reset. Note: even though branches are not part of the checkpoint, we strongly encourage thinking about them earlier you have a default branch, so your branch representation does actually affect your checkpoint implementation!
- Branches can make more directories??