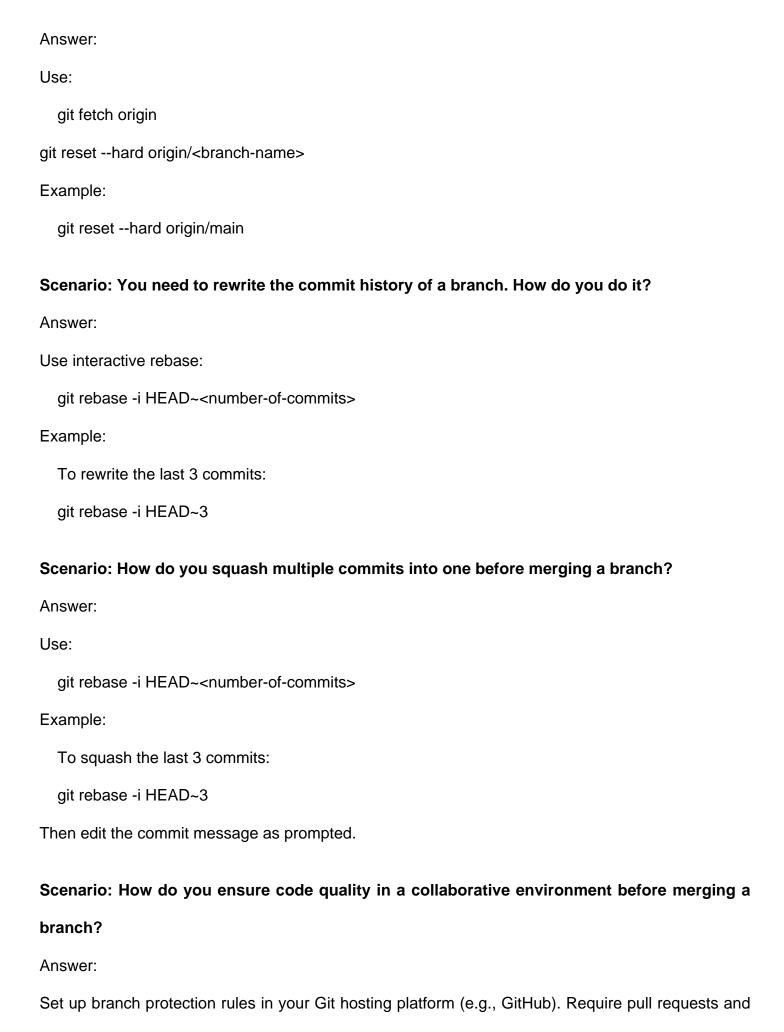
Comprehensive Git Interview Questions

Scenario: You want to check which branch you are currently working on.
Answer:
Use:
git branch
Example:
\$ git branch
* main
feature-login
Scenario: How do you remove a file from being tracked by Git but keep it in your working
directory?
Answer:
Use:
git rmcached <file-name></file-name>
Example:
git rmcached config.json
Scenario: How do you rename a branch?
Answer:
To rename the current branch:
git branch -m <new-branch-name></new-branch-name>
To rename another branch:
git branch -m <old-branch-name> <new-branch-name></new-branch-name></old-branch-name>
Scenario: How do you reset a file to its last committed state?

Answer:

```
Use:
  git checkout -- <file-name>
Example:
  git checkout -- index.html
Scenario: How do you create a patch for a specific commit?
Answer:
Use:
  git format-patch -1 <commit-hash>
Example:
  git format-patch -1 abcd1234
Scenario: You mistakenly committed sensitive information. How do you remove it from all
commit history?
Answer:
Use the git filter-repo command:
  git filter-repo --path <file-name> --invert-paths
Example:
  git filter-repo --path secrets.txt --invert-paths
Scenario: How do you handle a detached HEAD state?
Answer:
You can create a new branch from the detached HEAD:
  git checkout -b <new-branch-name>
Example:
  git checkout abcd1234
git checkout -b temp-branch
```

Scenario: How do you reset a branch to match the remote branch completely?



mandatory code reviews before merging.

Scenario: A teammate accidentally pushed a large file to the repository. How do you remove it to reduce repository size?

```
Answer:

Use the BFG Repo-Cleaner:

bfg --delete-files <file-pattern> <repo-path>

Example:

To remove all `.zip` files:

bfg --delete-files "*.zip" my-repo.git
```

Scenario: Your build server requires a specific tag to deploy. How do you create and push a tag?

Answer:

Use:

git tag <tag-name>
git push origin <tag-name>

Example:

git tag v1.0.0

git push origin v1.0.0

Scenario: You want to make an experimental change without affecting the main branch. How do you handle it?

Answer:

Create a new branch for experimentation:

git checkout -b experiment-branch

Work on the branch and merge it if successful.