

## Midterm 1 – Git Squash Example on a Branch Containing Multiple Related Commits, and Integrating the Resulting Commit into the Shared/Integration Branch

GIT\_VISUALIZATION\_ALL\_BRANCHES after completing Step 5:

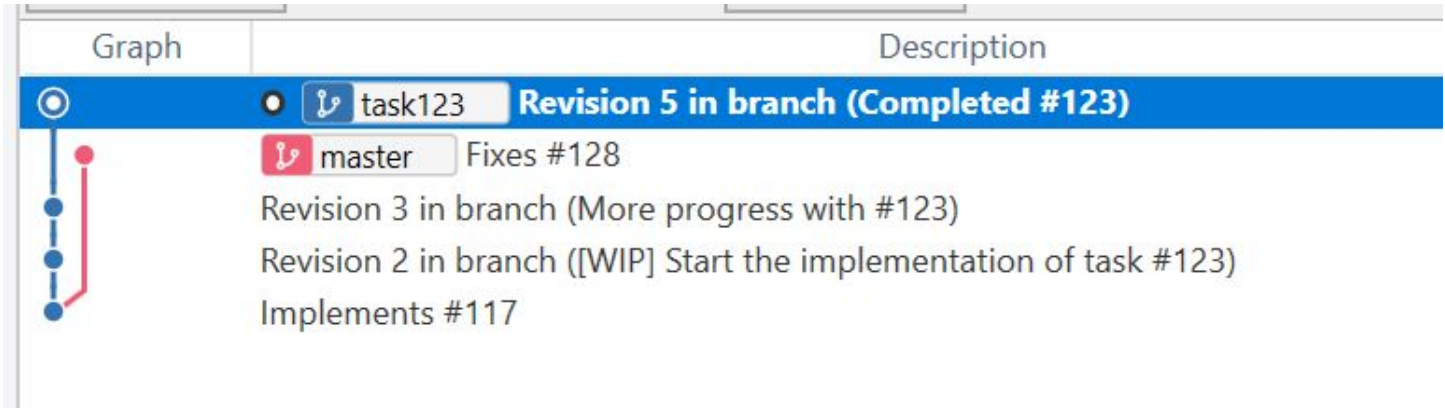


Figure 1: Example of visualizing all branches in a git repository

GIT\_COMMAND\_LINE\_OUTPUT after completing Step 7:

```
C:\MINGW64:/c/Users/ahram/Desktop/CSWorkspace/CS471/Midterm/ExampleGitSquash
pick ff72ac4 Revision 2 in branch ([WIP] Start the implementation of task #123)
pick cecebc2 Revision 3 in branch (More progress with #123)
pick 128d76b Revision 5 in branch (Completed #123)

# Rebase 7dd8679..128d76b onto 7dd8679 (3 command(s))
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
# Note that empty commits are commented out
```

Figure 2: Example of visualizing the output of a git command in the command line

```
MINGW64:/c:/Users/ahram/Desktop/CSWorkspace/CS471/Midterm/ExampleGitSquash
pick ff72ac4 Revision 2 in branch ([WIP] Start the implementation of task #123)
squash cecebc2 Revision 3 in branch (More progress with #123)
squash 128d76b Revision 5 in branch (Completed #123)

# Rebase 7dd8679..128d76b onto 7dd8679 (3 command(s))
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
# Note that empty commits are commented out
~
~
```

Figure 3: Example of visualizing the output of a git command in the command line

### GIT\_VISUALIZATION\_ALL\_BRANCHES after completing Step 8:

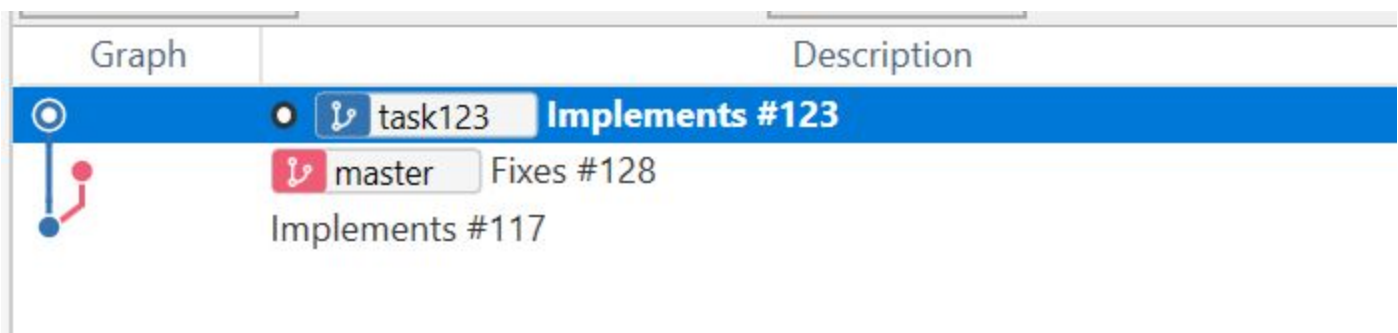


Figure 4: Example of visualizing all branches in a git repository

## GIT\_MERGE\_CONFLICT\_VISUALIZATION after completing Step 10:

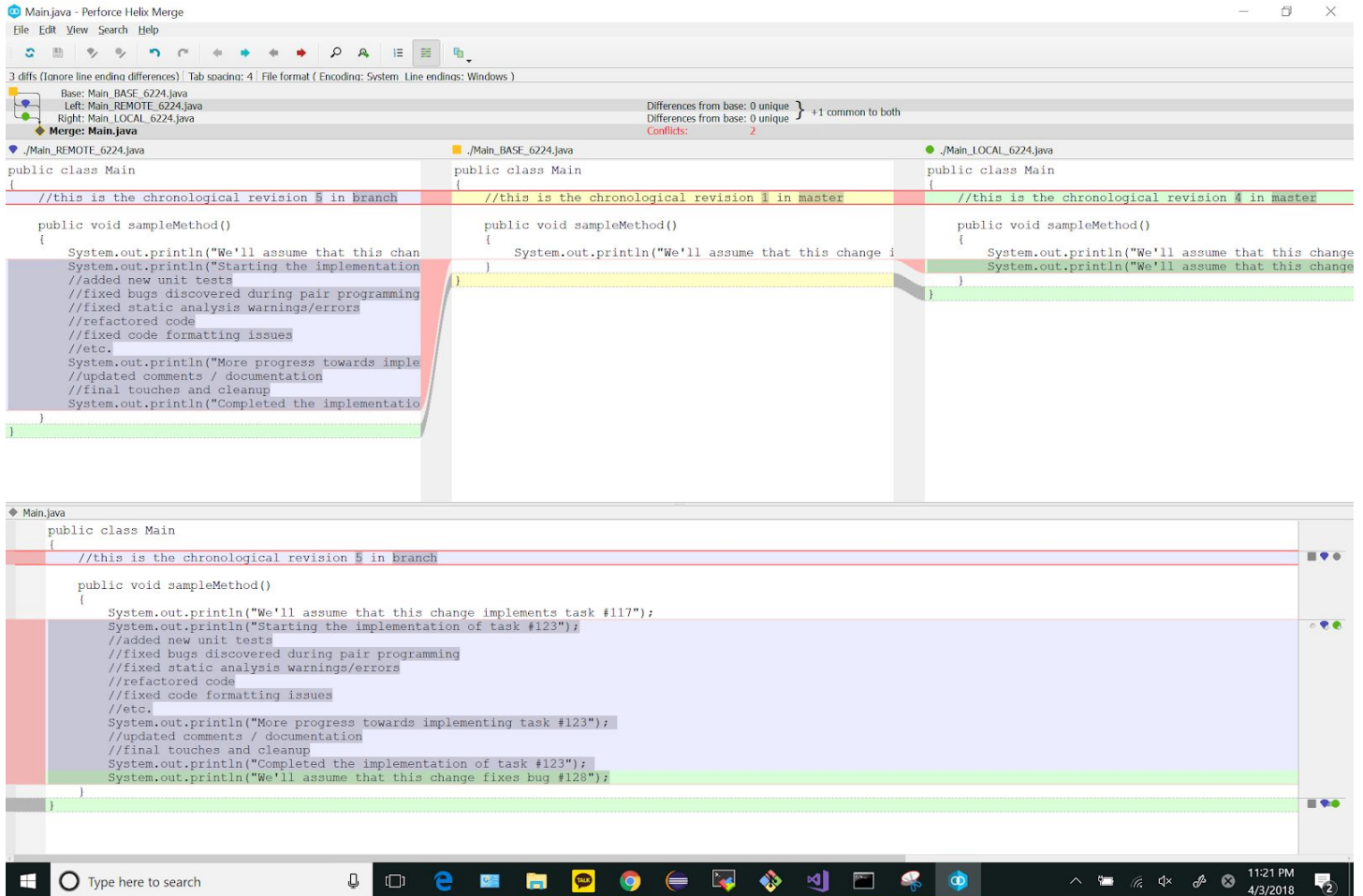


Figure 5: Example of solving a merge conflict for Main.java file using the 3-way-merge conflict tool

## GIT\_VISUALIZATION\_ALL\_BRANCHES after completing Step 11:

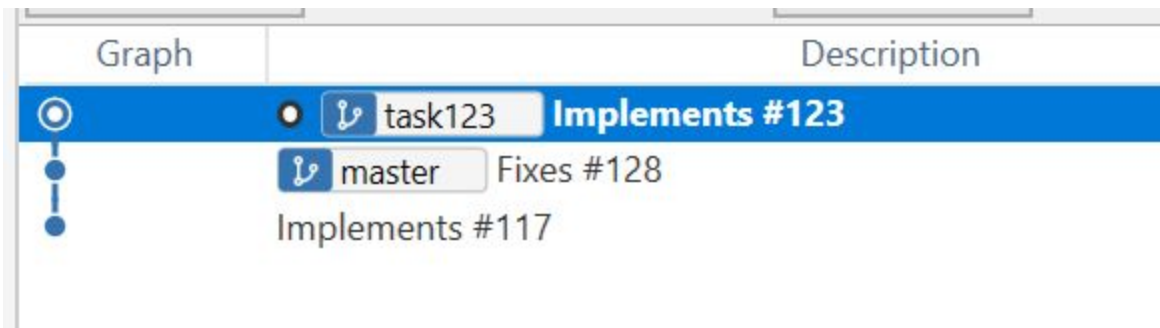


Figure 6: Example of visualizing all branches in a git repository

**GIT\_VISUALIZATION\_ALL\_BRANCHES after completing Step 12:**

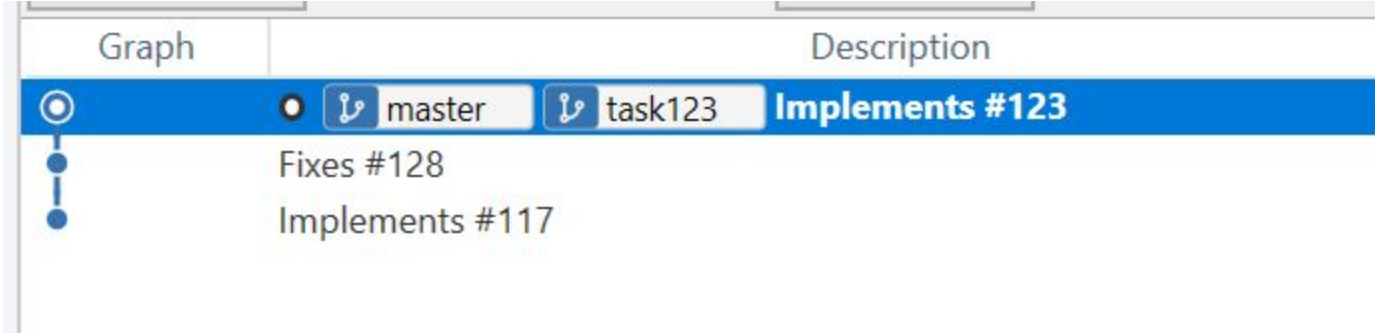


Figure 7: Example of visualizing all branches in a git repository

**GIT\_VISUALIZATION\_ALL\_BRANCHES after completing Step 13:**



Figure 8: Example of visualizing all branches in a git repository