

Midterm 1 – Example of a Git Merge Conflict and its Resolution with a 3-way-merge

GIT_VISUALIZATION_ALL_BRANCHES after completing Step 3 :

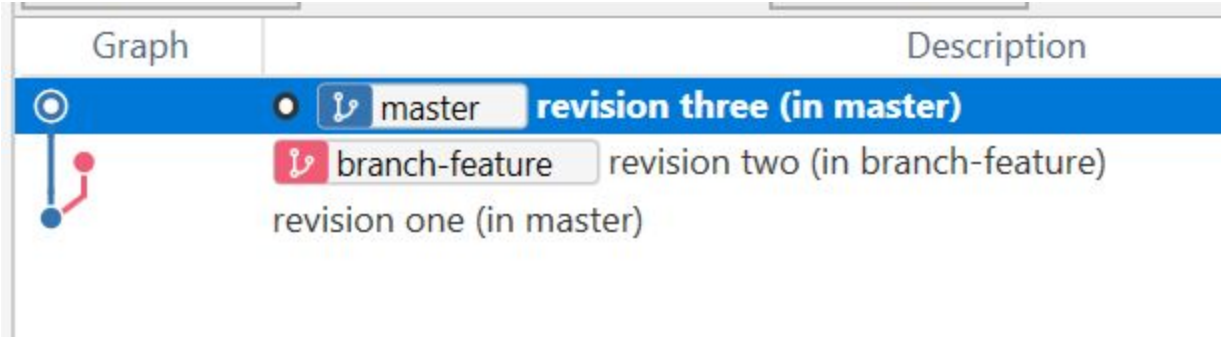


Figure 1: Example of visualizing all branches in a git repository

GIT_COMMAND_LINE_OUTPUT after completing Step 4 :

```
ahram@DESKTOP-SIV5F8V MINGW64 ~/Desktop/CSWorkspace/CS471/Midterm/ExampleMergeConflict (master)
$ git merge branch-feature
Auto-merging Main.java
CONFLICT (content): Merge conflict in Main.java
Automatic merge failed; fix conflicts and then commit the result.
```

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

GIT_MERGE_CONFLICT_VISUALIZATION after completing Step 5:

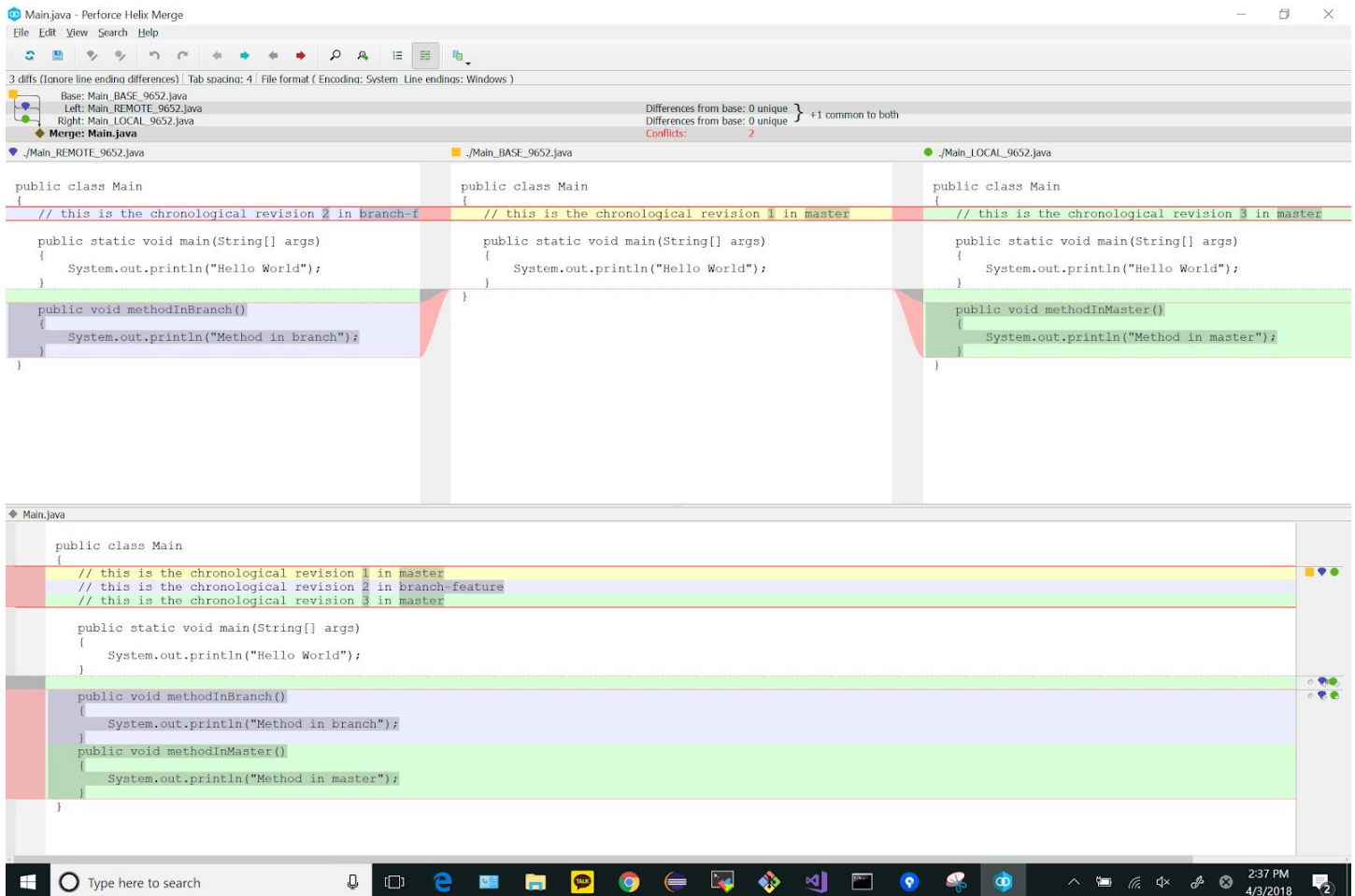


Figure 3: Example of visualizing the 3-way-merge conflict tool

GIT_MERGE_CONFLICT_VISUALIZATION after completing Step 6:

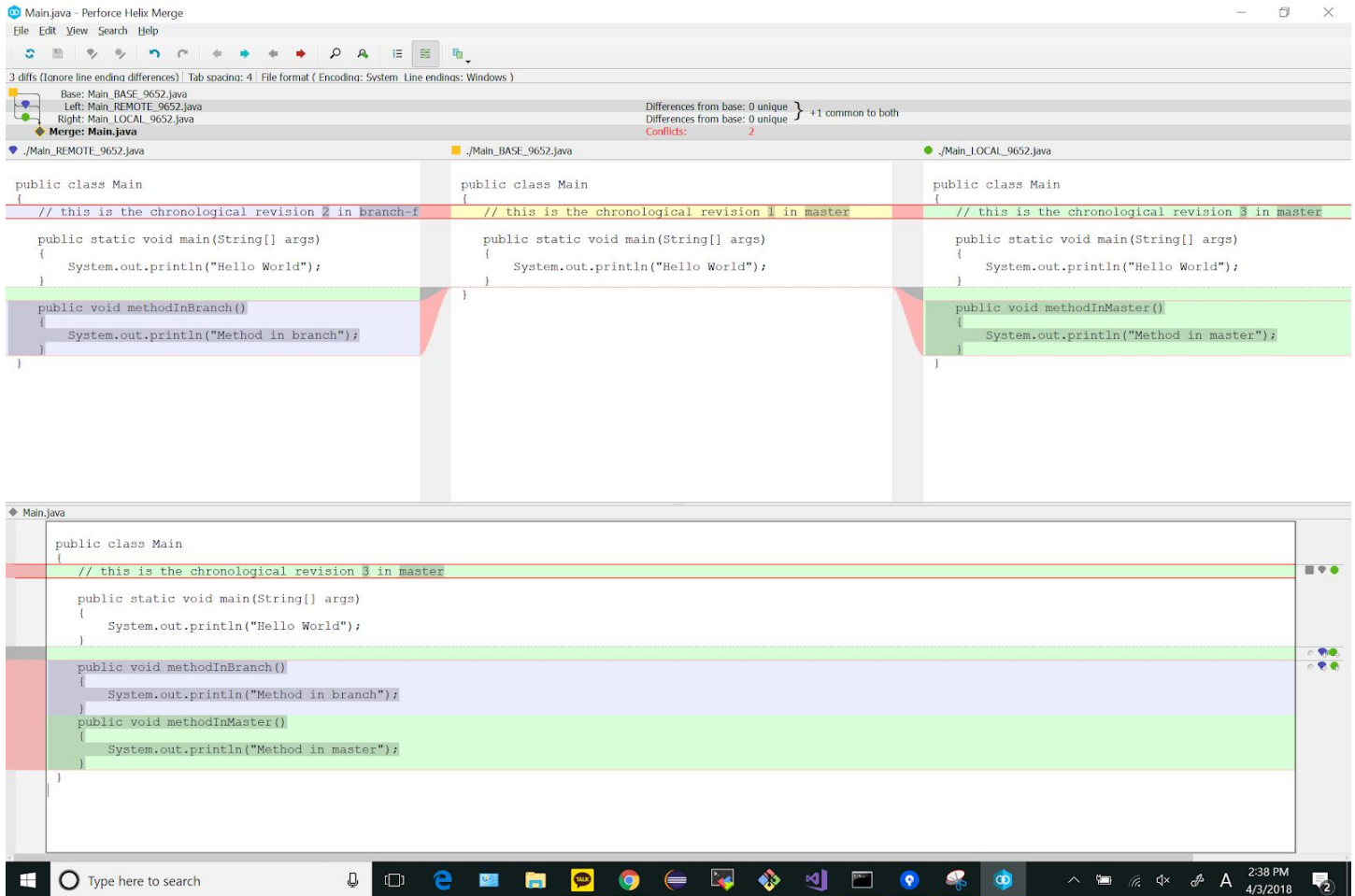


Figure 4: Example of solving a merge conflict for Main.java file using the 3-way-merge conflict tool

GIT_COMMAND_LINE_OUTPUT after completing Step 8:

```
C:\MINGW64:/c/Users/ahram/Desktop/CSWorkspace/CS471/Midterm/ExampleMergeConflict

Merge branch 'branch-feature'

# Conflicts:
#   Main.java
#
# It looks like you may be committing a merge.
# If this is not correct, please remove the file
#   .git/MERGE_HEAD
# and try again.

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# All conflicts fixed but you are still merging.
#
# Changes to be committed:
#   modified:   Main.java
#
~
```

Figure 5: Example of visualizing the output of a git command in the command line

GIT_CISUALIZATION_ALL_BRALNCHES after Step 8:

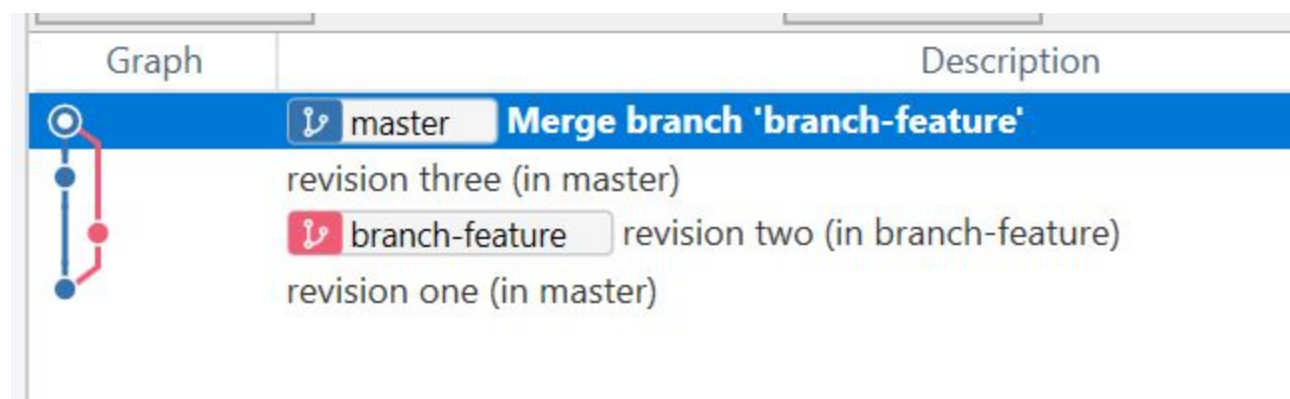


Figure 6: Example of visualizing all branches in a git repository