| First Name: | Ahram | |
|-------------|-------|--|
| Last Name | Kim | |

Midterm 1 – Git Rebase Example with Two Merge Conflicts

GIT_VISUALIZATION_ALL_BRANCHES after completing Step 6:

| | master Revision 6 in master |
|----------------|-------------------------------------|
| ⊙ • | branch-feature Revision 5 in branch |
| | Revision 4 in master |
| • | Revision 3 in branch |
| | Revision 2 in master |
| • | Revision 1 in master |

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

GIT_COMMAND_LINE_OUTPUT after completing Step 7:

```
hram@DESKTOP-SIV5F8V MINGW64 ~/Desktop/CSWorkspace/CS471/Midterm/ExampleGitRebase (master)
 git checkout branch-feature
Switched to branch 'branch-feature'
 hram@DESKTOP-SIV5F8V MINGW64 ~/Desktop/CSWorkspace/CS471/Midterm/ExampleGitRebase (branch-feature)
$ git rebase master
First, rewinding head to replay your work on top of it...
Applying: Revision 3 in branch
Using index info to reconstruct a base tree...
        Main.java
Falling back to patching base and 3-way merge...
Auto-merging Main.java
CONFLICT (content): Merge conflict in Main.java
error: Failed to merge in the changes.
Patch failed at 0001 Revision 3 in branch
The copy of the patch that failed is found in: .git/rebase-apply/patch
When you have resolved this problem, run "git rebase --continue".
If you prefer to skip this patch, run "git rebase --skip" instead.
To check out the original branch and stop rebasing, run "git rebase --abort".
```

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

| First Name: | Ahram |
|-------------|-------|
| Last Name | Kim |

GIT_MERGE_CONFLICT_VISUALIZATION after completing Step 9:

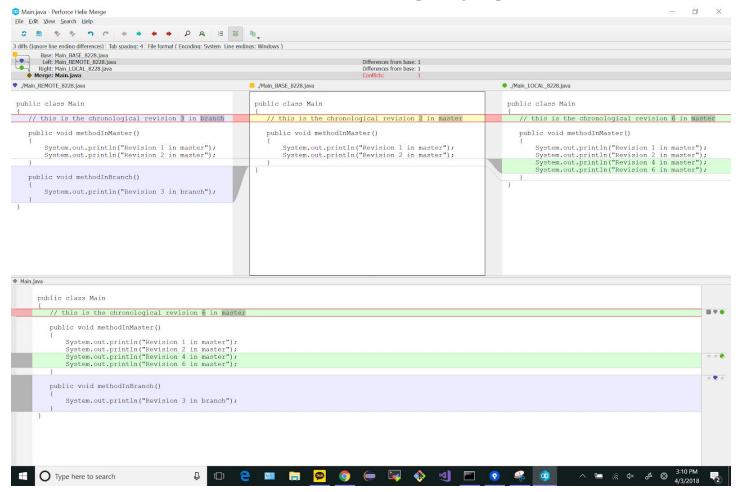


Figure 3: Example of solving a merge conflict for Main.java file using the 3-way-merge conflict tool

GIT_COMMAND_LINE_OUTPUT after completing Step 10:

```
ahram@DESKTOP-SIV5F8V MINGW64 ~/Desktop/CSWorkspace/CS471/Midterm/ExampleGitRebase (branch-feature REBASE 1/2)

$ git status
rebase in progress; onto 0d2a7e9

You are currently rebasing branch 'branch-feature' on '0d2a7e9'.

(all conflicts fixed: run "git rebase --continue")

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: Main.java
```

Figure 4: Example of visualizing the output of a git command in the command line

| First Name: | Ahram | |
|-------------|-------|--|
| Last Name | Kim | |

GIT_COMMAND_LINE_OUTPUT after completing Step 11:

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

GIT_MERGE_CONFLICT_VISUALIZATION after completing Step 12:

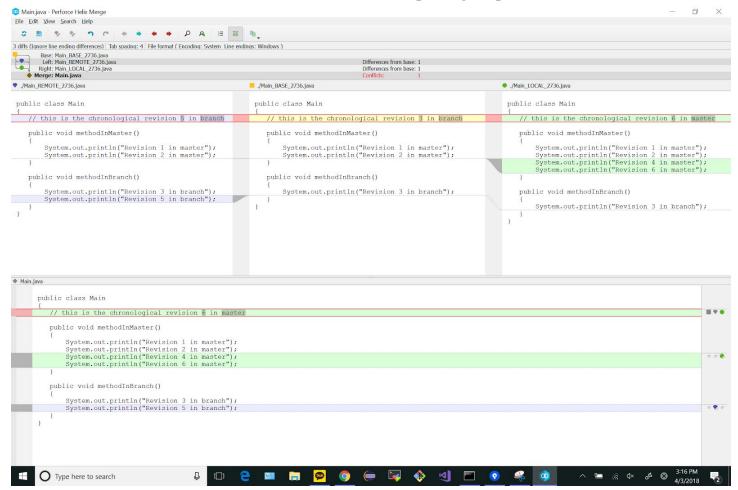


Figure 6: Example of solving a merge conflict for Main.java file using the 3-way-merge conflict tool

| CS 471 | |
|--------|------|
| Spring | 2018 |

| First Name: | Ahram | |
|-------------|-------|--|
| Last Name: | Kim | |

GIT_COMMAND_LINE_OUTPUT after completing Step 13:

Figure 7: Example of visualizing the output of a git command in the command line

GIT_VISUALIZATION_ALL_BRANCHES after completing Step 14:

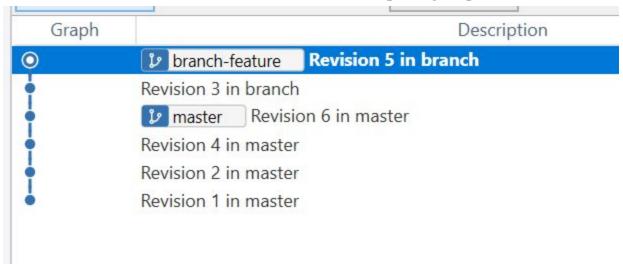


Figure 8: Example of solving a merge conflict for Main.java file using the 3-way-merge conflict tool

GIT_VISUALIZATION_ALL_BRANCHES after completing Step 15:

| Graph | | | Description |
|-------|----------------------|----------------|----------------------|
| | v master | branch-feature | Revision 5 in branch |
| | Revision 3 in | branch | |
| | Revision 6 in | master | |
| | Revision 4 in master | | |
| | Revision 2 in master | | |
| | Revision 1 in | master | |

Figure 9: Example of solving a merge conflict for Main.java file using the 3-way-merge conflict tool

| First Name: | Ahram | |
|-------------|-------|--|
| Last Name: | Kim | |

GIT_VISUALIZATION_ALL_BRANCHES after completing Step 16:

| Graph | Description | | |
|-------|---------------|----------------------|--|
|) | ン master | Revision 5 in branch | |
| | Revision 3 in | n branch | |
| | Revision 6 in | n master | |
| | Revision 4 in | n master | |
| | Revision 2 in | n master | |
| | Revision 1 in | n master | |

Figure 10: Example of solving a merge conflict for Main.java file using the 3-way-merge conflict tool