

# HW# 1

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# 1 Question 1: Git Diff on 2 commit hash tags

## 1.1 What

We were asked to take the hash tags of the two most recent commits in our repository. We then had to apply them to the git diff command like so:

```
$ git diff hash1 hash2
```

## 1.2 How

We typed in

```
$ git log
```

and copied the hashes for the 2 most recent commits, seeing a bunch of output text afterward. We saw:

```
diff --git a/README.txt b/README.txt
index 4cad11c..2ea85b3 100644
--- a/README.txt
+++ b/README.txt
@@ -1,9 +1,9 @@
    README file for CS 471, Fall 2018, Frederick Lee

--Homework Directory Info
- -Naming is as follows:
-   -HW* (where * is the index of the homework assignment)
-     -e.g. HW3 is the directory for all materials for Homework #3
- -Structure
-   -Report: for report related materials
-   -Code : for code/source files for this homework assignment
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## 1.3 Why

It looks like the

```
$ git diff hash1 hash2
```

command shows what information change occurred in each file, between the two commits. The lines in the output prefixed by a single minus sign (-) are from the second most recent commit; the lines prefixed by a (+) are from the most recent commit.

## 2 Question 2: Git Diff on Temporary Change

### 2.1 What

We're asked to make a temporary change to test.txt (which exists at the root of our git repository), then use git diff to see what sort of output we get. We're then supposed to interpret the output.

### 2.2 How

Applying the git diff command after modifying test.txt outputs (Frederick Lee's output):

```
diff --git a/test.txt b/test.txt
index 874eb3b..8b2ec08 100644
--- a/test.txt
+++ b/test.txt
@@ -1,4 +1,4 @@
   this is test file with some dummy text
   I am Frederick Lee
   I am learning version control.
-
+this line is a temporary edit, hopefully
```

### 2.3 Why

It looks like the output is showing pretty much the same sort of info as when we apply git diff to two previous commit hashes. We then finished by reverting the change.