Problem Set 2

Part I: Command line & Git

1. Using your command line interface (CLI) (e.g. Git Bash, terminal), create a new folder called **lastname_ps2**. Be intentional about where you create this folder (hint: change directories to where you want to save this folder first). Then, change directory into the **lastname_ps2** folder.

   Write the commands you used here (to create the folder and change directory):

2. Turn **lastname_ps2** into a git repository and write the command you used here:

3. Use the `echo` command to output the text `"# YOUR NAME HERE"` and redirect it using `>` to a file called `problemset2.R` (hint: refer to example code in lecture). Write the command you used here:

4. Check the status of your repository. Write the command you used here:

   According to the output, under which heading is `problemset2.R` listed under?

5. What is the git command to check what changes (i.e., differences) were made to `problemset2.R`?

   If you run this command now, do you see an output? Why or why not?

6. Add `problemset2.R` to the staging area and check the status. Write the commands you used here:

   According to the output, under which heading is `problemset2.R` listed under?

7. Use a git command to compute the hash ID for `problemset2.R`. Write the command you used here:

   What is the hash of the blob object?

8. Use a git command to get the content, type, and size of the blob object. Write the commands you used and the outputs you got here:

9. Commit the file and check the commit log. Write the commands you used here:

   According to the output, what is the hash of your commit?

10. Use a git command to get the content, type, and size of the commit object. Write the commands you used and the outputs you got here:

Part II: Manipulating data in R

1. Open `problemset2.R` in RStudio to edit the file and remove the comment containing your name at the top of the file.
2. TBD

Part III: GitHub

1. Check the changes (i.e., differences) made to `problemset2.R`. How can you tell if a line has been added or removed?
2. Check the status of your repository. Write the command you used here:

   According to the output, under which heading is `problemset2.R` listed under?

3. Add and commit `problemset2.R`. Write the commands you used here:

4. Log in to your GitHub account online and create a new private repository here: https://github.com/organizations/Rucla-ed/repositories/new

   Name it **lastname_ps2** and do NOT initialize it with a `README.md` file. Paste the link to your repository here:

5. Connect your local **lastname_ps1** repository to the remote and push your changes. Write the commands you used here:

Part IV: GitHub issues

1. Navigate to the issues tab for the **rclass2** repository here: https://github.com/Rucla-ed/rclass2/issues

   Create a new issue titled "Problem Set 2 - YOUR NAME" and post any question you have about the class or problem set.

   TBD

Part V: Plots using ggplot

1. TBD

2. Finally, add and commit this file you are working on (`problemset2.Rmd`) to your repository and push to the remote repository as well.