READ THIS FIRST:

Do your best to do every item on your own; if you cannot immediately do an item, go on to others and then come back to it later. Please check the resources section if you have any problems and talk with your professor if there are any further questions.

Due: Wednesday, September 28, 2016.

Goals:

- Practice getting around the command line compiling and running Java programs.
- Practice getting around in and using GitHub.
- Explain some key concepts about methods and arrays that we covered in class
- Get some not so easy lab points.

Instructions:

1. *Programming.* From your textbook (Liang), write Java programs that solve the following problems using methods:
   - Problem 6.8
   - Problem 6.20
2. Using what you learned about arrays create Java programs with methods that solve the following problems:
   - Problem 7.9
   - Problem 7.18

   Make sure you follow the style guidelines `http://www.reev.us/cmpt220f16/style.html` that were given for this course.

Resources:

- Your textbook (Liang)!
- Project submission guidelines for this course: `www.reev.us/cmpt220f16/project_submission.html`
- Coding style guidelines for this course: `www.reev.us/cmpt220f16/style.html`
- "How to" use the command line "shell": `www.reev.us/cmpt220f16/shell.html`
- The official Java reference: `http://docs.oracle.com/javase/tutorial/collections/TOC.html`
- Stack Overflow Java Tag: `http://stackoverflow.com/questions/tagged/java`

Submission:

- Push your work to your GitHub repository before the due date (see the top of this document). Remember to include your name, the date, and the assignment in the (copious, meaningful, and accurate) commit messages. Then **double check your files are on GitHub** and finally sit back and pat yourself in the back, you did good!
- Make sure all your programs (*.java) are in a folder called `labs/4/` inside your repository folder.