

Ungraded Exercise Set 5

Important Dates:

- Assigned: September 22, 2025
- Recommended Due Date: September 28, 2025

What To Do:

These problems are, of course, optional and are not part of your grade. They do, however, serve as great practice for the graded problem sets, labs, and exams. The standard academic integrity policy does not apply to these problems. That is, you can share code with anyone in the class, directly or indirectly.

For each of the following problems, create a class named `ProblemX`, where `X` is the problem number. E.g., the class for problem 1 should be `Problem1.java`. Write (JUnit) tests for each method that you design in corresponding test files named `ProblemXTest`, where `X` is the problem number. Additionally, write Javadoc comments explaining the purpose of the method, its parameters, and return value. **Do not round your solutions!**

You must write sufficient tests and adequate documentation.

All problems are listed in *Learning Java - A Test-Driven Approach*.

1. Exercise 3.1
2. Exercise 3.2
3. Exercise 3.10
4. Exercise 3.17
5. Exercise 3.20
6. Exercise 3.26
7. Exercise 3.29
8. Exercise 3.31
9. Exercise 3.32
10. Exercise 3.34