

## Recursion & Methods

### **What To Do:**

Follow each step carefully. As you complete the lab, submit the source files (.java) problems to the autograder (link is in the Canvas portal). After finishing, please submit your work, as a ZIP, to Canvas, and let one of the AIs know.

**For this lab, please place each method inside its own class file labeled as ProblemX, where X is the problem number. The accompanying test files should be named ProblemXTest.**

## Questions

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

1. Exercise 2.28 [*Replace A with B*]
2. Exercise 2.33, part (a) only [*Nested parentheses?*]
3. Exercise 2.34, parts (a)-(b) only [*Is factorion?*]

**Note:** there is a typo in the book about this problem. Its description should read as, “Design the `isFactorionTR` tail recursive method, which solves the same problem as part (a), but uses tail recursion.”