1. Study the `Time` class, version 0, 1 and 2. Write a version 3, by modifying version 2 so that a `Time` object has only a single instance variable, named `seconds`, that represents the number of seconds passed since midnight (similar to version 1).

2. Modify the `Rational` class’ `add`, `subtract`, `multiply` and `divide` methods as follows: instead of returning a new `Rational` object, the method should modify the values of `num` and `den` fields of `this`. Hence, the return types of these methods should become `void`. Run the program (you will need to modify the main method first, to fix compile errors). Inspect the program using the debugger. How do the values change?

3. Write a `copy constructor` for the `Rational` class. Recall that a copy constructor receives an object of the same type as the parameter. For an example, check version 2 of the `Time` class.