

Chapter 3

3.18

On this one, I was able to use instance variables to create the lock combo and have it work.

```
S-2420'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '--enable
Messages' '-cp' 'C:\Users\east0\AppData\Roaming\Code\User\worksp
5\redhat.java\jdt_ws\CS-2420_465cd918\bin' 'Assignment_03_18_Com
Starting tests
Ending tests: No red output in eclipse means success
```

```
Lock created and secured
Please select from the following:
    Type 1 to open the locker - Locker automatically closes and locks
    Type 2 to change the combo
    Type -1 to exit
1
Please enter your locks current 3 integers
123
123
123
Locker successfully opened, and will automatically close and lock

Please select from the following:
    Type 1 to open the locker - Locker automatically closes and locks
    Type 2 to change the combo
    Type -1 to exit
-1
Thank you for using Dr. B's Automatic Combo Protection
```

3.31

On 3.31, I was unable to remember how to get the objects to work as the variables. I will need to hop in an office hours and get those figured out.

```
import java.util.Random;

public class Assignment_03_31_BigComplex {

    public BigDecimal real;
    public BigDecimal imaginary;

    public Assignment_03_31_BigComplex() {
        //TODO this constructor should represent the number 0+0i
        //Note - Be sure to use BigDecimals's!
        real = new BigDecimal(val:"0");
        imaginary = new BigDecimal(val:"0i");
    }

    public Assignment_03_31_BigComplex(BigDecimal real) {
        //TODO this constructor should represent the number real+0i
        imaginary = new BigDecimal(val:"");
    }

    public Assignment_03_31_BigComplex(BigDecimal real, BigDecimal imaginary) {
        //TODO this constructor should represent the number real+imaginary i
    }
}
```