ELEC 2543 Object-Oriented Programming and Data Structures

Exercise 7

Topics: static modifier, Comparable Interface

Due Date: Mar 20, 2017

Part I: static modifier

Develop a class that represents bank checks. Each check has the following attributes:

1. Payee: name of the recipient of the check
2. Check Number: The serial number of the check. The first check should be numbered as 1001, the second one is 1002, and so on.
3. Amount: the cash amount of this check.

**You have to use at least one static variable/method in class Check**. Not all variables and methods have to be static. CheckDriver.java has been provided to test your implementation. The output of the driver program is as follows:

c1 = Check No: 1001, Payee: Peter Pan, Amount: 100

c2 = Check No: 1002, Payee: Wendy, Amount: 200

c3 = Check No: 1003, Payee: TinkerBell, Amount: 600

We will use our own CheckDriver.java to test your implementation.

Part II: Comparable interface

Augment class Fraction that you developed in Lab2a to implement the Comparable interface. Test your implementation using TestFractionCompare.java. The output of the program is as follows:

2/3 is larger than 1/3

10/17 is smaller than 8/13

11/101 is the same as 11/101

Handin

Submit your Check.java and Fraction.java to Moodle before the deadline.