CSCI 2540 Assignment 5

30 points

Due date: Tuesday, Feb. 21 (before class)

In this assignment, you will write a program to perform JUnit testing on the RationalNum class in assignment 2. An examples of JUnit test has been discussed in class and it is also available on Blackboard. As demonstrated in class, Eclipse can be used for JUnit test.

You need to write the TestRationalNum class which includes methods to test all the constructors and methods in your RationalNum class. Make sure you also test all the different cases.

The TestRationalNum class should extend the TestCase class that is imported from `junit.framework.TestCase`

For most of the test methods, you can compare the actual result with the expected result, or to test if a condition is true or false. But for the case that the denominator is zero, you will need to include try/catch exception handling code in your test method. If an exception is thrown, it means that your RationalNum class did not handle the zero denominator case properly.

You may include the setUp method in your TestRationalNum class. The setUp method will be called before EACH test method is executed. Therefore you should only put the necessary code in the setUp method.

For this assignment, you will need to submit your package with two .java files, one for RationalNum class and one for TestRationalNum class.

Submission instructions:

To submit your programs, you need to submit your programs electronically on Blackboard. **Please also bring a hard copy of your programs to the class to submit.**

Make sure you put all your source code files (and only source code files) in one package and name the package as assg5_Yourlastname. When you submit your files to Blackboard, please submit your package folder (with source code only, i.e., .java files) as one zip file.