CS 0445 Assignment Information Sheet

**You must electronically submit an information sheet with every assignment. Also be sure to submit all materials following the procedures described on the** [**submission procedures**](https://people.cs.pitt.edu/~ramirez/cs445/assigs/submit.html) **page.**

**Name: Jake Fulton Assignment #: 3**

**Lecture Day and Time: Tuesday-Thursday 1:00-2:15**

**Recitation Day and Time: Friday 9AM**

**Program Due Date: 3/20**

**Handed in Date: 3/19**

**Source code (.java) file name(s):**

**A3LList.java**

**LinkedListPlus2.java**

**ReallyLongInt2.java**

**ReallyLongInt3.java**

**Input / output file name(s) (if applicable):**

**LLPTest2.java**

**RLITest2.java**

**ExtraCredRLITest3.java**

**Does your program compile without error?: Yes**

**If not, what is/are the error(s)?:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Does your program run without error?: Yes**

**If not, what is/are the error(s) and which parts of your program run correctly?:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Additional comments (including problems and extra credit):**

For extra credit, I made ReallyLongInt3, which does everything ReallyLongInt2 can, but also accepts and handles negative numbers. To test it, I made the class ExtraCredRLITest3.java, which compiles and runs properly without any logic errors.

Doing all this required changing the string and long constructors to create negative numbers, changing the add, subtract, and multiply functions to handle every case involving completing operations with negative numbers, in addition to all of their recursive functions. I also changed the compareTo function to handle negative numbers. I didn’t have to change the equals function, but I did slightly anyway. I also made a function called positiveCopy() which returns a ReallyLongInt3 object that is a positive version of the original object. I commented throughout the class, hopefully the comments are helpful.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_