CS 2003 Fundamentals of Algorithms and Computer Applications

Lab 1: Debugging and Using the Java 6 API

Lab1a.java reads and displays on the console integers from a file, and finds the

maximum integer. It contains several bugs, some of these will produce compilation errors and

others will produce either runtime exceptions or runtime logical errors. Your first assignment

is to use the debugger tool to fix these bugs so that the program will run correctly.

Lab1b.java reads doubles from a file and displays the average. This time, the

source file is incomplete. Your second assignment is to complete the code by filling in the

readFile method. You can add data members and methods at your convenience.

During this process, you will need to look up method definitions for certain predefined Java

classes for which you need to refer to the Java API. The Java Platform 6 documentation for

standard Java classes and their methods are available at the following URL:

<http://download.oracle.com/javase/6/docs/api>

Please add comments to include the description for each method, the name of the author, date of completion and version number(your choice). For author and date, please use @author @since and @version tags.

Finally, generate Javadoc for both Lab1a.java and Lab1b.java.

Turn the modified source files Lab1a.java and Lab1b.java in via Harvey.