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| **COMP 2120 – Programming in Java**  **Seminar #9** |

## Due Date: Beginning of your lab on November 20, 2012

**Seminar problems:**

EX 11.2, 11.3, p. 464 and 464

**Hand in Problems:**

**Write 3 recursive methods that can be used to solve the following 3 problems.**

Write Java programs for each of the problems below**. For each problem, your recursive method may have as many parameters as you need,** or you can use instance variables to help you solve these problems. You may code the solution in a class definition file, or in an application file.

1. Write a recursive method that will compute the product of all values in an array of integers.
2. Write a recursive method that will find and return the largest value in an array of integers.
3. Write a recursive method that will reverse the order of the characters in a given string and return the result as a new string. For example, if “book” is the argument, the result would be “koob”.

**Assignment Submission:**

Hand-in a print-out of each program and the output produced. Remember to use **several** different test data sets for each question.