In-Class Activity #3
(10 points)

Name #1: ____________________________ Section Leader: ____________
Name #2: ____________________________ Section Leader: ____________
Name #3: ____________________________ Section Leader: ____________

Directions: In groups of two or three, answer the following questions to the best of your collective ability. When appropriate, we encourage you to show your work, to help us understand your thought process. Your group may use one computer to help answer these questions. ICAs (In-Class Activities) count toward your grade; please take them seriously.

1. Class Composition / Adaptation.
   (a) Define: Class Composition.

   (b) In your BinaryNumber class in Program #3, you are probably using either an array object or a String object to represent the binary number. Is this usage best described as composition or as adaptation? Explain why you believe that your answer is the best one.

2. In class today we gave a few examples of ‘real-life’ (that is, not Java!) inheritance situations. Think of two different real-life inheritance examples, and for each, explain why you believe the example demonstrates inheritance.

When your group is satisfied with your answers, hand this to one of the class staff. We’ll review the correct answers after time is up.