In-Class Activity #8

1. Consider the problem of converting an ordered singly-linked list into a circular linked list.

   (a) Draw “Before” and “After” pictures for this problem. Both pictures should have three singly-linked nodes, each holding a different number. In each picture, be sure to show the head reference variable, and the node it references.

   (b) Describe (or draw) a special case of a “Before” list that a method performing this conversion to a circular list would need to handle correctly.

   (c) Write a complete Java instance method that performs this ‘convert an ordered singly-linked list to a circular list’ conversion, and sets the instance variable tail to reference the ‘last’ node. Assume a class named Node<E> is available, with the usual getters and setters (getData(), getNext(), setData(E), and setNext(Node<E>)).

   ```java
   public void circulate ()
   {
   }
   ```

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