Kadir Has University

Department of Computer Engineering

CE 242 - Data Structures and Algorithms

Spring 2010 – Ahmet Ardal

Lab Assignment 5

1. Implement the insertSorted() method of the SortedDLinkedList class. insertSorted() should create a DListNode with its data parameter, and insert that node to the list without breaking the sortedness of the list. Also special cases should be covered in your implementation, for instance, if a node is being inserted as the first node then you should update the "first" node reference of the list object.

   Method signature:
   ```
   public void insertSorted(int data)
   ```

2. Implement the printReverse() method of the SortedDLinkedList class. It should print the items of the list by traversing the nodes in reverse order starting from the last node up to the first node.

   Method signature:
   ```
   public void printReverse()
   ```

   Note: While implementing the methods above, write your code into the method body of the corresponding method definition in the Java source file named "SortedDLinkedList.java", which is provided on the Blackboard. Also a main() method with some test code is available in the file "DLinkedListTest.java" for you to test the methods you wrote.