Lab 1 (10 points)

Due Date: Tuesday, August 26

1. Write the methods for the following class, using the comments describing each method to tell you how to write them. For your convenience, initial code for the class below is also posted on the course web site.

```java
public class DirectionKeeper
{
    private double totalDistance; // distance travelled
    private String unit; // unit of measure
    private String route; // route

    /*
     * Methods:
     * • Default constructor for objects of class DirectionKeeper
     * • One-argument constructor for objects of class DirectionKeeper (includes parameter measureUnit: String specifying unit of measure)
     * • getDirections: returns route travelled (a String)
     * • getDistance: returns distance travelled (a double)
     * • getMeasure: returns unit of measure used (a String)
     * • goForward: adds forward distance to route (includes parameter amount: number of units to add to totalDistance)
     * • turnLeft: adds left turn to route
     * • turnRight: adds right turn to route
     * • stop: adds stop to route
     * • addDirection: adds direction other than forward, turn or stop (includes parameter direction: String containing text to add to route)
     *
     */
}

Some notes:
• None of the methods should perform any input or output; leave this to client code
• No import statements should be needed to make your code work.

2. Write a client class for DirectionKeeper. Include a main method that declares a couple of DirectionKeeper objects: one that describes how you get from home to Kirkwood, and one that describes how you get to class from wherever you were before class.

Turn in electronic copies of your two files: DirectionKeeper.java and WhateverYouNameTheOtherClass.java. Note that I want the .java files, not .class, .txt, or anything else! E-mail these to me as attachments (do not compress files – messages with compressed attachments tend to get stopped by our server). Make sure your name is included as a comment in both files. Use the subject line: CSC153 Lab 1 and your last name.