Program 1 **30 Points**

[K&R Assignment 6] Implementing a Distributed, Asynchronous Distance Vector Routing Algorithm

Due: Friday, January 22, 2010 at 10 p.m.

This programming assignment involves simulating the **Distance Vector (DV)** routing algorithm. Your version of this program must run on the CCC Linux machines.

The official version of this assignment can be found on the Pearson Addison-Wesley website for the K&R textbook in the Companion Web Site, Student Resources, Programming Assignments. You can only access this web page if you have a Fifth Edition of the textbook and have registered using the access code at the front of the book. Each student is to complete the **Basic Assignment** for Assignment 6. Students who have not purchased the textbook will find an 'unofficial' version of the K&R Assignment 6 at

http://web.cs.wpi.edu/~rek/Nets/C10/Program1_C10.html

BS/MS students must also complete the **Advanced Assignment** for Program 6. Any other student who successfully completes and turns in the **Basic Assignment** on time can voluntarily turn in the **Advanced Assignment** by **Monday January 25, 2010 at 10 p.m.** and receive up to **5 extra credit points for Program 1.**

What to turn in for Assignment 1

Turn in your assignment using the *turnin* program on the CCC machines. **You should turn in a tarred file that includes:** all source programs needed to execute Program 1, a **README** file and a *make* file. Contact the TA if you need assistance with *make* files. See **Course Information and Procedures** on the course web page for the specific requirements for the **README** file and documentation rules for programming assignments for this course.