CS 356 Pre-Lab 2, Edmondson-Yurkanan, Spring 2003
Router Configuration, Routing and Access Lists

PLEASE SIGN UP TODAY for a LAB2 time slot on 4/23, 4/24, or 4/25.

A completed pre-lab needs to be turned in at the beginning of the lab session.

Required Reading
A. It’s important that you study the lab handout to do the pre-lab. (especially Part A & D’s Introductions)
B. Routing protocols (Textbook: RIP [4.5.1], Security 7.1, Firewalls 7.6.1)

1. For this lab, (a) which one of the three subnets is subnet 192.168.100.0 and where is it? (b) What is LAN A’s subnet number and what is its subnet mask (using the /x format)?

2. How would you set up a static routing table entry in Group A’s router (give the complete ip route command) so that Group A can access Group B? (Refer to Part B – Step 5 of lab handout).

3. USING RIP, the Internet’s Distance Vector Routing Update protocol: (Format answer with three columns – as in Figure 4.3.0 in text 4.5.1)
   (a) What will Router A’s routing table initially look like?
   (b) What will Router A’s routing table eventually stabilize to?

(please turn over)
4. Search RFC 1058 to find the value of infinity: __________

5. What strategy would you use to set up an access list? (Would you use more specific rules or more general rules in the beginning? It might help to think of the security implications.)

6. Write an access list rule that disallows users on PC1 in the lab to browse web servers outside of LAN A. Assume that LAN B is connected to the Internet. (Refer to Part D of the lab handout)