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Professor Wise

CS 320 001

**Assignment 9**

**Consider the network setup on p.1. Suppose that the ISP instead assigns the router the address 24.34.112.235 and that the network address of the home network is 192.168.1/24.**

**a. Assign addresses to all interfaces in the home network.**

Since the network address of the home network is 192.168.1/24, the rightmost 32-24=8 bits can be used for the hosts. Home addresses:192.168.1.1, 192.168.1.2, 192.168.1.3 with the router interface being 192.168.1.4

**b. Suppose each host has two ongoing TCP connections, all to port 80 at host 128.119.40.86. Provide the six corresponding entries in the NAT translation table.**

***WAN Side LAN Side***

24.34.112.235,4000 192.168.1.1,3345

24.34.112.235,4001 192.168.1.1,3346

24.34.112.235, 4002 192.168.1.2, 3445

24.34.112.235, 4003 192.168.1.2, 3446

24.34.112.235, 4004 192.168.1.3, 3545

24.34.112.235, 4005 192.168.1.3, 3546