Homework 2

Due: Tuesday 9/20 at 11:59pm

Submit the following with handin as assignment hwk2.

1. (10 points) Complete lab 2 to create a simple proxy for the IM program. Specifically, your program should take two port numbers and an IP address from the command line. The first port number is the port it listens on and the second plus the IP address is where it forwards connections to. Once it has established two connections, it should alternately read from them, beginning with the one who initiated the connection. It should switch connections once a 0 (byte, not character) is read. You may assume that this is the last byte written by the party on the other end of the connection, but should not make assumptions about the number of bytes received between 0s (i.e. the client or server might decide to send an arbitrary amount of data during one of their turns). When either connection is closed, the proxy should close both of them.