CSC209H Worksheet: Select: netcat

On this worksheet, you will write a simple version of a client called **netcat**. **netcat** must listen to both **stdin** (for input from the user) and the socket, so it needs **select**.

Your program should take two command-line arguments, the IP address and port of the machine you want to connect to. It should open a socket and connect to the given address at the given port, and then simply echo the data back and forth. Whenever the user types something on the keyboard, the program sends this to the socket, and whenever information arrives on the socket, the program echoes this data to the user on standard output. You may assume each time you read data, it fits into a buffer of size MAXSIZE.

```
int main(int argc, char **argv) {
    char buf[MAXSIZE];

// create the socket
```

peer.sin_port =

```
// set up the sockaddr_in struct for connecting
struct sockaddr_in peer;
peer.sin_family = AF_INET;
```

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while (1) {
 // use select to wait for keyboard/server input

// If there is data from stdin, send to server

```
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    // Print data from server (if any) to stdout
    // Any other cleanup/setup, if necessary
return(0);
```

}