Open Book, open notes. All questions equal weight.

Reassemble loops must be shown in every case where one is needed. All numbers sent over the network must be in network standard order. You may assume appropriate includes are already part of the code.

1) Modify the primitive client so that it uses argv[1] as the name of the server to connect to.

```
srv_addr.sin_addr.s_addr = htonl(0x868bf811);
    /*134.139.248.17*/
srv_addr.sin_family = AF_INET;
srv_addr.sin_port = htons(7654);
/* Request the connection to the server */
connect(s, (struct sockaddr *) &srv_addr, sizeof(srv_addr));
strcpy(message, "Client speaks");
    /*Send a message to server*/
write(s, message, 80);
    /*Get server's reply*/
read(s, message, 80);
close(s);
return 1;
}
```

2) Write a UDP gethostname client. The client will send a message to the server. The server will the hostname of the server (a string). The client will print this information. After printing this information, the client exits. Show only the client procedure, do not show the main program. Be sure to declare any variables you use.

3) Write a UDP gethostname server. When the server gets a message from a client it will make a gethostname call and send back to the client the value that call returns. Show only the receivefrom, the sendto and the code that goes in between. Show also the declaration of the buffer variable.

4) Write a TCP sysinfo client. The client will connect to the server. The server will send back three pieces of system information. The client will print these three pieces of information (3 integers) After printing this information, the client exits. Show only the client procedure, do not show the main program.

5) Write a TCP sysinfo server. When the server gets a connection from a client it will make a sysinfo call and send back to the client the uptime, freeram and freeswap values. Show only the service procedure, do not show the main program.