CIS 432/532 Introduction to Computer Networks
Fall 2001
Program #1 Survey

1. Identification
Print clearly.

<table>
<thead>
<tr>
<th>Name</th>
<th>CS Username</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Program Status
Check the boxes below to indicate which functions your program performs properly.

**Basic Requirements**
- [ ] Program includes a Makefile and compiles.
- [ ] Arguments are parsed properly and illegal arguments handled cleanly.
- [ ] Implementation options indicated below:
  - [ ] Your client and server use a null character to mark the end of each message, or
  - [ ] Your client and server use only the newline character to mark the end of a message.
  - [ ] Your client and server send all messages with a single send() call and expect all messages to be received in a single recv() call, or
  - [ ] Your client and server send some messages with multiple send() calls and your client can do multiple recv() calls to receive a single message.

**Protocol Correctness**
- [ ] Client can login automatically, gets a unique default nickname.
- [ ] Client can create and delete groups, all errors handled properly.
- [ ] Client can join and leave groups, all errors handled properly.
- [ ] Client can list all the groups.
- [ ] Client can change nickname, all errors handled properly.
- [ ] Client can use who and whois to list information about all users. Who lists only the users in the current group if the client is in a group. All errors handled properly.
- [ ] Client can send messages to other users in the same group, all errors handled properly.
- [ ] Client can send private messages to other users, all errors handled properly.
- [ ] Client can quit and restart, without any problems.
- [ ] User receives parsing error when format of command is improper.

**Interoperability**
- [ ] Your client works with solution server.
- [ ] Your server works with solution client.

3. Comments
*If your program doesn’t work properly, please describe in more detail what is wrong. Use the back if you need more space.*