

```
cpp.cs.rutgers.edu - PuTTY
bind done
port number 49066
Waiting for incoming connections...
^C-bash-4.1$ ./chatclient cpp.cs.rutgers.edu 59663
-bash-4.1$ ./chatclient cpp.cs.rutgers.edu 59663 franky
Socket created
connecting to hostname: cpp.cs.rutgers.edu
connecting to port 59663
Connected

HEY you've connected to Vamsi's chat!

Eyyy
so
im franky
this was the connection test
```

Now, if a client tries to connect with a taken username, or the chat room is full, the server will instead prompt that client to re-enter a username until either that name is

```
cpp.cs.rutgers.edu - PuTTY
-bash-4.1$ cd cs352
-bash-4.1$ cd Assign1
-bash-4.1$ ls
chatclient  hashtable.h      Makefile        tcpserver.c    tokenizer.h.gch
chathist.txt hashtable.h.gch  sorted-list.c  tcpserver.h    tokenizer.o
chatserver  hashtable.o      sorted-list.h  tokenizer.c
hashtable.c libserv.a       tcpclient.c    tokenizer.h
-bash-4.1$ ./chatclient cpp.cs.rutgers.edu 59663
```

Also, when A exits without ending the session the program should unlock Bs mutex, all

Account deletion causes all account mutexes held by that client to be unlocked, allow

Furthermore, if B exits suddenly, while A is in a private session, A will be sent a m

If B was A's only private target, A will default to public chat

```
cpp.cs.rutgers.edu - PuTTY
-----
System Load:    0.12          Logins:          12
Connections:    24            Processes:       671
Free Memory:    495M of 3.7G  Free Swap:      5.0G of 8.0G
-----
CPU Info:       Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz - 4 cores
System CPU:     1.16%
CPU Idle:       94.19%
User CPU:       2.97%
IO Wait:        1.57%
-----
Login as:       vkk25          Total Sessions:  1
Avail.Disk:     2.30 GB        Avail.Freespace: 257.28 GB
CUDA Version:   5.5           CUDA Cores:      96
-----

NOTE: if you save data in /freespace, please be aware, these data will
be wiped without warning every Summer sometime in Jun/Jul/Aug for OS Upgrade.

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hashtable.h  sorted-list.c  tcpclient.c   tcpserver.h    tokenizer.h
-bash-4.1$ make all
gcc -c tokenizer.c tokenizer.h -Wall -Werror -g
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ar -r libserv.a tokenizer.o hashtable.o
ar: creating libserv.a
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-bash-4.1$ ./chatserver
----TCP/Server running at host NAME: cpp.cs.rutgers.edu
Socket created
bind done
port number 59663
Waiting for incoming connections...
Connection accepted
account: franky created
```



```
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^C-bash-4.1$ ./chatclient cpp.cs.rutgers.edu 59663
-bash-4.1$ ./chatclient cpp.cs.rutgers.edu 59663 franky
Socket created
connecting to hostname: cpp.cs.rutgers.edu
connecting to port 59663
Connected

HEY you've connected to Vamsi's chat!

Eyyy
so
im franky
this was the connection test
  amanda: werd
  amanda: this was the colors test, the multiple connection test
  amanda: and the chat history test
█
```

```
cpp.cs.rutgers.edu - PuTTY
HEY you've connected to Vamsi's chat!

franky: Eyyy
franky: so
franky: im franky
franky: this was the connection test

werd
this was the colors test, the multiple connection test
and the chat history test
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sessions should be differentiated from active users

The @exit command disconnects the client from the chat process should continue execution.

## 6 Operational Axioms

1. No two active users can have the same name
2. Any communication is publicly shared with all active users

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Connection accepted
account: franky created
Connection accepted
account: amanda created
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cpp.cs.rutgers.edu - PuTTY
connecting to hostname: cpp.cs.rutgers.edu
connecting to port 59663
Connected

HEY you've connected to Vamsi's chat!

Eyyy
so
im franky
this was the connection test
  amanda: werd
  amanda: this was the colors test, the multiple connection test
  amanda: and the chat history test
  wally: yo
  wally: im wally
  wally: second history test
█
```

```
cpp.cs.rutgers.edu - PuTTY
franky: so
franky: im franky
franky: this was the connection test
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cpp.cs.rutgers.edu - PuTTY
connecting to hostname: cpp.cs.rutgers.edu
connecting to port 59663
Connected

HEY you've connected to Vamsi's chat!

franky: Eyyy
franky: so
franky: im franky
franky: this was the connection test
  amanda: werd
  amanda: this was the colors test, the multiple connection test
  amanda: and the chat history test

yo
im wally
second history test
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account: franky created
Connection accepted
account: amanda created
Connection accepted
account: wally created
█
```

```
cpp.cs.rutgers.edu - PuTTY
amanda: and the chat history test
wally: yo
wally: im wally
wally: second history test
alright folks
time for the private session test
@private wally

SERVER: you want to start a private session with: wally

SERVER: private session started with: wally
yooo
its me a franky
wally: as u can see
wally: amanda had no clue what franky said
amanda: ye no clue
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this was the colors test, the multiple connection test
and the chat history test
wally: yo
wally: im wally
wally: second history test
franky: alright folks
franky: time for the private session test
wally: as u can see
wally: amanda had no clue what franky said
ye no clue
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```
cpp.cs.rutgers.edu - PuTTY
franky: alright folks
franky: time for the private session test

franky has started a private session with you
(private) franky: yooo
(private) franky: its me a franky
as u can see
amanda had no clue what franky said
amanda: ye no clue
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Connection accepted
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Connection accepted
account: amanda created
Connection accepted
account: wally created
```

```
cpp.cs.rutgers.edu - PuTTY
wally: second history test
alright folks
time for the private session test
@private wally

SERVER: you want to start a private session with: wally

SERVER: private session started with: wally
yooo
its me a franky
wally: as u can see
wally: amanda had no clue what franky said
amanda: ye no clue
amanda: iight
amanda: lemme try to target wally
amanda: werd it failed
```

```
cpp.cs.rutgers.edu - PuTTY
wally: amanda had no clue what franky said
ye no clue
iight
lemme try to target wally
@private wally

SERVER: you want to start a private session with: wally

SERVER: that person is busy, try later
werd it failed
```

```
cpp.cs.rutgers.edu - PuTTY
franky has started a private session with you
(private) franky: yooo
(private) franky: its me a franky
as u can see
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account: franky created
Connection accepted
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Connection accepted
account: wally created
```

```
cpp.cs.rutgers.edu - PuTTY
iight
so
ima private up wally
@private wally

SERVER: you want to start a private session with: wally

SERVER: private session started with: wally
wally
ry to end my sesh
amanda: yo im amanda byw
amanda: btw
```

```
cpp.cs.rutgers.edu - PuTTY
HEY you've connected to Vamsi's chat!

franky: iight
franky: so
franky: ima private up wally
yo im amanda byw
btw
@private wally

SERVER: you want to start a private session with: wally

SERVER: that person is busy, try later
```

```
cpp.cs.rutgers.edu - PuTTY
franky has started a private session with you
(private) franky: wally
(private) franky: ry to end my sesh
amanda: yo im amanda byw
amanda: btw
@end franky

SERVER: you want to end a private session with: franky

SERVER: you did not have a private session with: franky
```

```
cpp.cs.rutgers.edu - PuTTY
233         free(ptr);
234         list->head = NULL;
(gdb) p ptr
$1 = (connectnode *) 0x0
(gdb) p lst
No symbol "lst" in current context.
(gdb) p list
$2 = (connectlist *) 0x7ffff00008c0
(gdb) p list->connectnum
$3 = 0
(gdb) q
A debugging session is active.

        Inferior 1 [process 7675] will be killed.

Quit anyway? (y or n) y
-bash-4.1$ emacs tcpserver.c
-bash-4.1$ make clean
rm -r -f chatclient chatserver Makefile~ libserv.a tokenizer.h.gch hashtable.h.gch
tokenizer.o hashtable.o tokenizer.c~ hashtable.c~ tokenizer.h~ hashtable.h~ tcp
server.c~ tcpserver.h~ tcpclient.h~ tcpclient.c~ readme.pdf~ testplan.txt~ testca
ses.txt~ chathist.txt chathist.txt~
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gcc -o chatclient tcpclient.c libserv.a -g -Wall -Werror -pthread
-bash-4.1$ ./chatserver
----TCP/Server running at host NAME: cpp.cs.rutgers.edu
Socket created
bind done
port number 57587
Waiting for incoming connections...
Connection accepted
account: franky created
Connection accepted
account: amanda created
Connection accepted
account: wally created
```



```
wally
ry to end my sesh
  amanda: yo im amanda byw
  amanda: btw
ight time to end my time with wally
@end wally
```

```
SERVER: you want to end a private session with: wally
SERVER: you ended a private session with: wally
word
so everything i say is now public
  amanda: and i should be able to private up with wally
```

```
SERVER: you want to start a private session with: wally

SERVER: that person is busy, try later
  franky: word
  franky: so everything i say is now public
and i should be able to private up with wally
@private wally
```

```
SERVER: you want to start a private session with: wally

SERVER: private session started with: wally
eyyy
```

```
SERVER: you want to end a private session with: franky

SERVER: you did not have a private session with: franky
(private) franky: iight time to end my time with wally
franky has ended a private session with you
  franky: word
  franky: so everything i say is now public
  amanda: and i should be able to private up with wally

amanda has started a private session with you
(private) amanda: eyyy
```

```
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port number 57587
Waiting for incoming connections...
Connection accepted
account: franky created
Connection accepted
account: amanda created
Connection accepted
account: wally created
```

```
cpp.cs.rutgers.edu - PuTTY
amanda: btw
light time to end my time with wally
@end wally

SERVER: you want to end a private session with: wally
SERVER: you ended a private session with: wally
word
so everything i say is now public
amanda: and i should be able to private up with wally
wally: iight
wally: lemme private back to amanda
what yall saying
█
```

```
cpp.cs.rutgers.edu - PuTTY
SERVER: you want to start a private session with: wally

SERVER: private session started with: wally
eyyy
wally: iight
wally: lemme private back to amanda

wally has started a private session with you
(private) wally: yooo
(private) wally: so lets trash talk franky
yo frankys such a slut
franky: what yall saying
(private) wally: lol he has no clu
█
```

```
cpp.cs.rutgers.edu - PuTTY
lemme private back to amanda
@private amanda

SERVER: you want to start a private session with: amanda

SERVER: private session started with: amanda
yooo
so lets trash talk franky
(private) amanda: yo frankys such a slut
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```

cpp.cs.rutgers.edu - PuTTY
SERVER: you ended a private session with: wally
word
so everything i say is now public
  amanda: and i should be able to private up with wally
  wally: iight
  wally: lemme private back to amanda
what yall saying

wally has started a private session with you
(private) wally: yoo
(private) wally: now i can private both franky and amanda
and im public for everyone

```

```

cpp.cs.rutgers.edu - PuTTY
wally has started a private session with you
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(private) wally: so lets trash talk franky
yo frankys such a slut
  franky: what yall saying
(private) wally: lol he has no clu
(private) wally: ima include him
(private) wally: yoo
(private) wally: now i can private both franky and amanda
but i only private wally
  franky: and im public for everyone
cuz hes a slut^^^

```

```

cpp.cs.rutgers.edu - PuTTY
ima include him
@private franky

SERVER: you want to start a private session with: franky

SERVER: private session started with: franky
yoo
now i can private both franky and amanda
(private) amanda: but i only private wally
  franky: and im public for everyone
(private) amanda: cuz hes a slut^^^

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Connection accepted
account: franky created
Connection accepted
account: amanda created
Connection accepted
account: wally created

```

```

SERVER: you want to start a private session with: amanda
SERVER: private session started with: amanda
hey
hey

SERVER: amanda has left, ending a private sesh with you

SERVER: amanda has left us leaving private sesh with you

yo
now im public

```

```

amanda: iight

amanda has started a private session with you
(private) amanda: hey
(private) amanda: hey

SERVER: amanda has left, ending a private sesh with you
franky: yo
franky: now im public

```

```

SERVER: private session started with: tessa
hey
@private franky

SERVER: you want to start a private session with: franky
SERVER: private session started with: franky
hey

franky has started a private session with you
(private) franky: hey
@exit
exit
closing client
-bash-4.1$

```

```

CPU Info:      Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz - 4 cores
System CPU:    1.16%
User CPU:      2.99%
CPU Idle:      94.18%
IO Wait:       1.58%

-----
Login as:      vkk25
Avail.Disk:    2.29 GB
CUDA Version:  5.5
Total Sessions: 1
Avail.Freespace: 257.28 GB
CUDA Cores:    96
-----

```

NOTE: if you save data in /freespace, please be aware, these data will be wiped without warning every Summer sometime in Jun/Jul/Aug for OS Upgrade.

```

-bash-4.1$ cd cs352
-bash-4.1$ ls
Assign1 pal.tgz
-bash-4.1$ cd Assign1
-bash-4.1$ ls
chatclient hashtable.h.gch sorted-list.c tcpserver.h tokenizer.o
chatserver hashtable.o sorted-list.h tokenizer.c
hashtable.c libserv.a tcpclient.c tokenizer.h
hashtable.h Makefile tcpserver.c tokenizer.h.gch
-bash-4.1$ ./chatserver
----TCP/Server running at host NAME: cpp.cs.rutgers.edu
Socket created
bind done
port number 44124
Waiting for incoming connections...
Connection accepted
account: franky created
Connection accepted
account: tessa created
Connection accepted
account: amanda created
Client disconnected
Connection accepted
account: amanda created
Client disconnected

```