

# Operating Systems

## HW Sheet # 5

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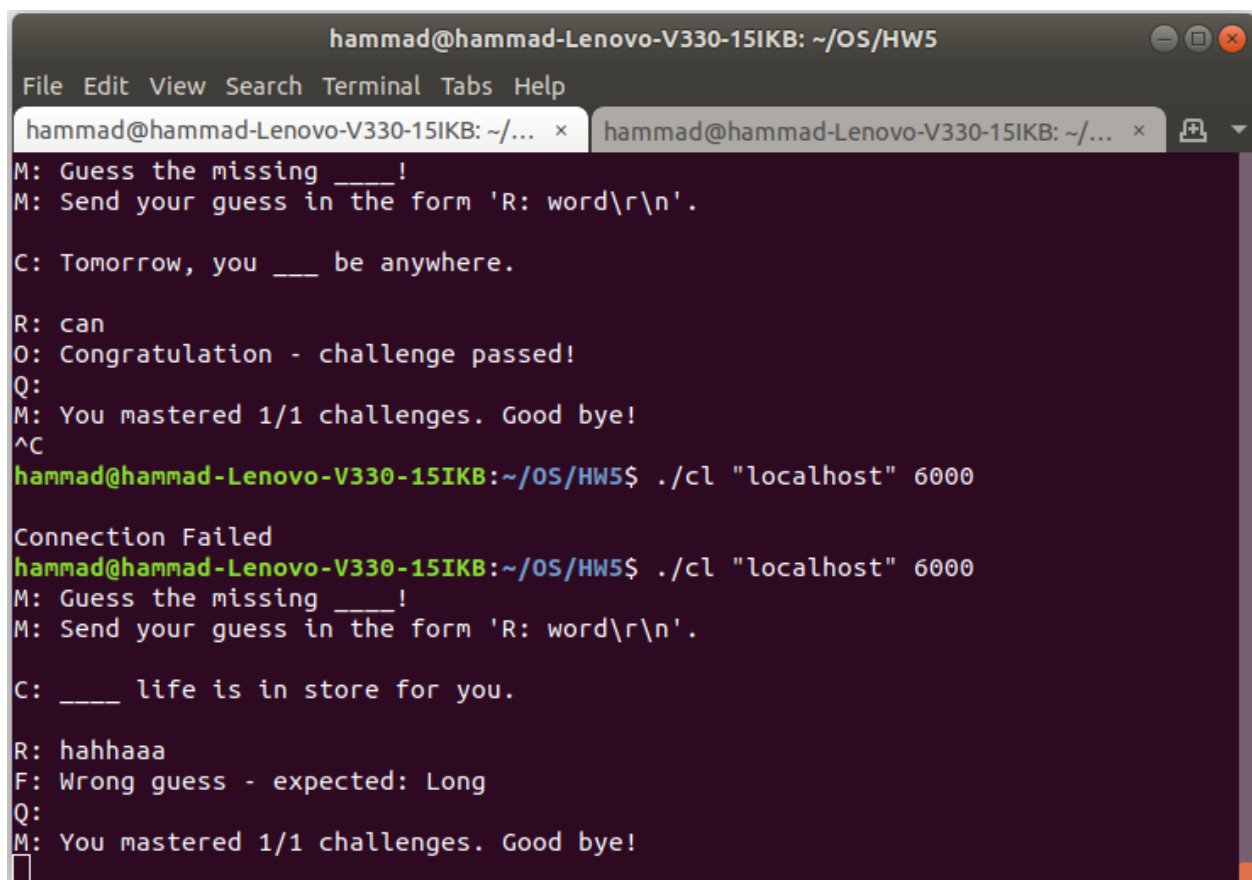
Problem 5.1:

First, compile both server.c and nc.c files. On one terminal tab, execute the command  
**./server 6000** where 6000 is any port number

On the second tab, execute: **./nc "localhost" 6000**

Attached below are a few screenshots of the program's functionality.

Client Side:



```
hammad@hammad-Lenovo-V330-15IKB: ~/OS/HW5
File Edit View Search Terminal Tabs Help
hammad@hammad-Lenovo-V330-15IKB: ~/... x hammad@hammad-Lenovo-V330-15IKB: ~/... x
M: Guess the missing ____!
M: Send your guess in the form 'R: word\r\n'.

C: Tomorrow, you ____ be anywhere.

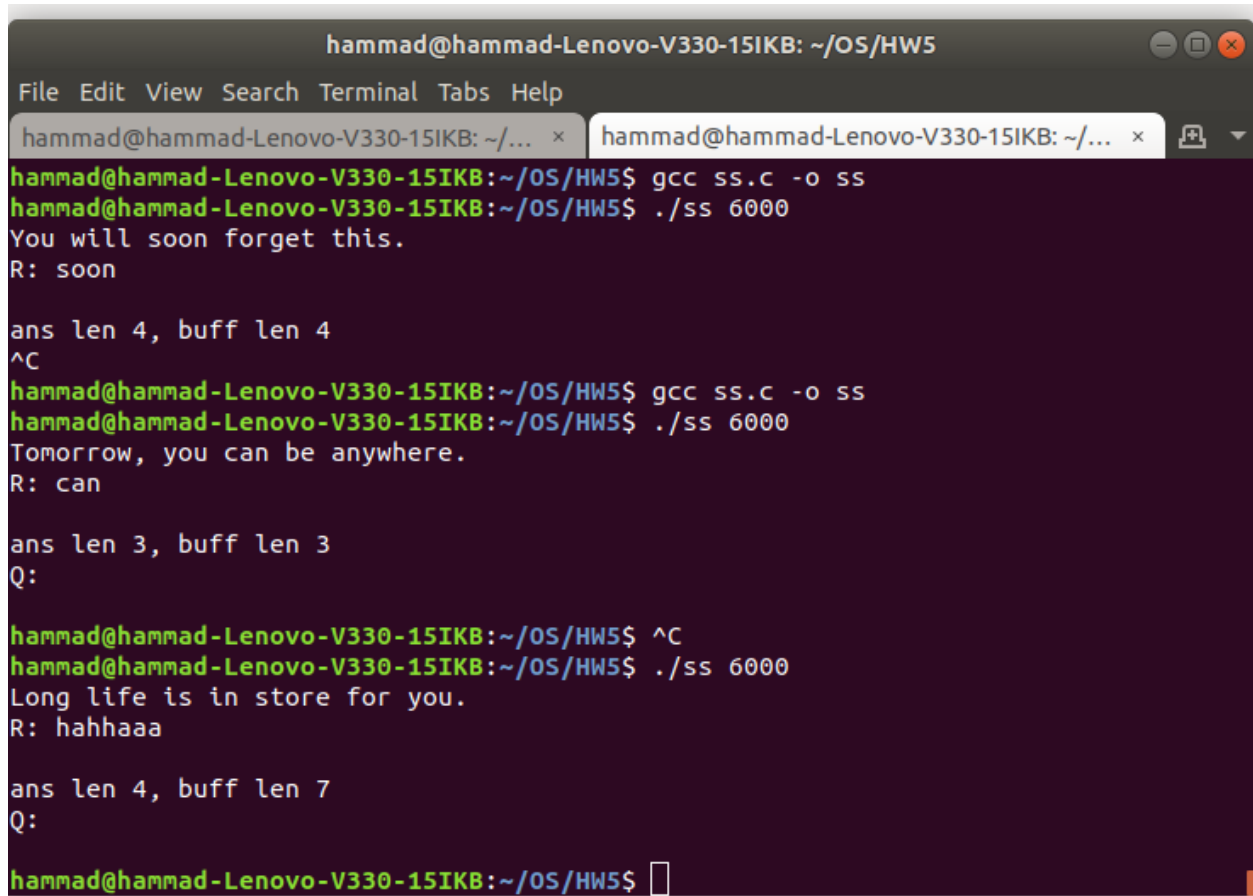
R: can
O: Congratulation - challenge passed!
Q:
M: You mastered 1/1 challenges. Good bye!
^C
hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$ ./cl "localhost" 6000

Connection Failed
hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$ ./cl "localhost" 6000
M: Guess the missing ____!
M: Send your guess in the form 'R: word\r\n'.

C: ____ life is in store for you.

R: hahhaaa
F: Wrong guess - expected: Long
Q:
M: You mastered 1/1 challenges. Good bye!
```

Server Side:



```
hammad@hammad-Lenovo-V330-15IKB: ~/OS/HW5
File Edit View Search Terminal Tabs Help
hammad@hammad-Lenovo-V330-15IKB: ~/... x hammad@hammad-Lenovo-V330-15IKB: ~/... x
hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$ gcc ss.c -o ss
hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$ ./ss 6000
You will soon forget this.
R: soon

ans len 4, buff len 4
^C
hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$ gcc ss.c -o ss
hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$ ./ss 6000
Tomorrow, you can be anywhere.
R: can

ans len 3, buff len 3
Q:

hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$ ^C
hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$ ./ss 6000
Long life is in store for you.
R: hahhaaa

ans len 4, buff len 7
Q:

hammad@hammad-Lenovo-V330-15IKB:~/OS/HW5$
```

If the program gives undesired results on the first attempt, please try to run it again.

Alternatively, please see the while loop within the main section. Comment out the:

```
store[strlen(store)-2] = '\0';
```

and uncomment the following line

```
store[strcspn(store, "\r\n")] = 0;
```