

UNP Lab
Lab Exercise - 7

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- 1)
- 2)

a) Server:

```
sista@ubuntu:~/NP/lab/ex7$ gcc -o q2a_server -L . q2a_server.c libunp.a
sista@ubuntu:~/NP/lab/ex7$ ./q2a_server&
[1] 19449
sista@ubuntu:~/NP/lab/ex7$ netstat -a | head
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 0.0.0.0:9877             0.0.0.0:*               LISTEN
tcp        0      0 localhost:domain        0.0.0.0:*               LISTEN
tcp        0      0 localhost:ipp           0.0.0.0:*               LISTEN
tcp        0      0 ubuntu:38906            maa05s24-in-f14.1:https TIME_WAIT
tcp        0      0 ubuntu:60818            55.65.117.34.bc.g:https ESTABLISHED
tcp        0      0 ubuntu:57692            a104-120-159-223.:https ESTABLISHED
tcp6       0      0 ip6-localhost:ipp      [::]:*                  LISTEN
udp        0      0 0.0.0.0:631            0.0.0.0:*
```

Client:

```
sista@ubuntu:~/NP/lab/ex7$ gcc -o q2a_client -L . q2a_client.c libunp.a
sista@ubuntu:~/NP/lab/ex7$ ./q2a_client
1 argument required. The server IPaddress
sista@ubuntu:~/NP/lab/ex7$ ./q2a_client 0.0.0.0
Hello
Message recieved from server:Hello
This is client
Message recieved from server:This is client
```

b) Server:

```
sista@ubuntu:~/NP/lab/ex7$ gcc -o q2b -L . q2b.c libunp.a
sista@ubuntu:~/NP/lab/ex7$ ./q2b &
[1] 5796
sista@ubuntu:~/NP/lab/ex7$ netstat -a | head
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 localhost:ipp           0.0.0.0:*               LISTEN
tcp        0      0 localhost:domain        0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:9877            0.0.0.0:*               LISTEN
tcp        0      0 10.0.2.15:53980         maa03s47-in-f14.1:https ESTABLISHED
tcp        0      0 10.0.2.15:58584         maa03s42-in-f13.1:https ESTABLISHED
tcp        0      0 10.0.2.15:49676         maa05s19-in-f3.1e1:http TIME_WAIT
tcp        0      0 10.0.2.15:59990         maa05s15-in-f1.1e1:http TIME_WAIT
tcp        0      0 10.0.2.15:42242         server-54-240-162:https TIME_WAIT
sista@ubuntu:~/NP/lab/ex7$
```

Client:

```
sista@ubuntu:~/NP/lab/ex7$ gcc -o q2a_client -L . q2a_client.c libunp.a
sista@ubuntu:~/NP/lab/ex7$ ./q2a_client 0.0.0.0
Hello to iterative server
Message recieved from server:Hello to iterative server
1
Message recieved from server:1
2
Message recieved from server:2
3
Message recieved from server:3
4
Message recieved from server:4
^C
sista@ubuntu:~/NP/lab/ex7$
```

3) Server:

```
sista@ubuntu:~/NP/lab/ex7$ gcc -o q3_server -L . q3_server.c libunp.a
sista@ubuntu:~/NP/lab/ex7$ ./q3_server&
[1] 4539
sista@ubuntu:~/NP/lab/ex7$ netstat -a | head
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 localhost:ipp           0.0.0.0:*               LISTEN
tcp        0      0 localhost:domain        0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:9877            0.0.0.0:*               LISTEN
tcp        0      0 10.0.2.15:35880         server-54-230-24-5:http ESTABLISHED
tcp        0      0 10.0.2.15:55518         broadband.actcorp.:http ESTABLISHED
tcp        0      0 localhost:42664          localhost:9877           TIME_WAIT
tcp        0      0 10.0.2.15:55490         55.65.117.34.bc.g:https ESTABLISHED
tcp        0      0 10.0.2.15:60084         ec2-184-72-95-230:https ESTABLISHED
sista@ubuntu:~/NP/lab/ex7$
```

Client:

```
sista@ubuntu:~/NP/lab/ex7$ gcc -o q3_client -L . q3_client.c libunp.a
sista@ubuntu:~/NP/lab/ex7$ ./q3_client 0.0.0.0
(In expression, each character MUST be seperated by a space)
Enter expression:1 + 2
Result:3.000000

Enter expression:( 4 * 2 ) / 3
Result:2.666667

Enter expression:0.5 - 0.13
Result:0.370000

Enter expression:( 1 + 2 - 3
Result:Invalid expression

Enter expression:( 1 + 2 ) - 3
Result:0.000000

Enter expression:
^C
sista@ubuntu:~/NP/lab/ex7$
```