

In-class practice #4: Before 21:30

To understand `setsockopt()`.

Please modify the echo server/client programs to achieve the following check points:

- Check point 1: (30%)
 1. Use “TCP keep alive” to establish connection
 2. Shutdown echo server/client and immediately re-execute echo server/client → unable connect

- Check point 2: (30%)

Shutdown echo server/client and immediately re-execute echo server/client to re-establish a successful connection by “TCP port reuse”.

- Check point 3: (40%)

Shutdown echo server/client and immediately re-execute echo server/client to re-establish a successful connection by linger.

Hint: TAs will use “`watch -d -n 1 'netstat --timer | grep [port number]`” “to monitor the connection states.