

‘ In-class practice #3 : Before 20:00

Use ***select*** and ***shutdown*** functions to implement TCP Echo Server/Client to achieve the following check points:

- Check point 1: (70%)
Complete client/server program by ***select*** function
- Check point 2: (30%)
Complete program by ***adding shutdown*** functions

Time before 22:00, 下禮拜補交(8折)

include file list:

```
#include <stdlib.h>
#include <stdio.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <strings.h>
#include <sys/ioctl.h>
#include <signal.h>
#include <errno.h>
```

Hint:

```
waitpid(-1, &stat, WNOHANG)
```

```
//-1: wait for any child process to terminate
```

```
//WNOHANG: tell kernel not to block if there are no terminated children
```