

Lab3-2

Socket Programming

File Transfer

- You will need to write file transfer client and server in language C.
- Sample code: <https://goo.gl/6rZTBV>
- Please modify the sample code to achieve the goals.

Requirement

- Server
 - User can assign **port** to server
 - Returns files list to client when the client connects immediately to the server
 - Returns files which client wants to download.
- Client
 - User can assign **IP address** and **port** to connect the server with command line argument.
 - Support user inputs the file name to download file from server, per file per input.
 - Input “.exit” to disconnect from server.

```
1. ./server 8888 (server)

~/Repo/socket-programming/file-transfer <master>
$ ./server 8888
File transfer server started
Maximum connections set to 5
Listening on 0.0.0.0:8888
Waiting for client...

[INFO] Connection accepted (id: 4)
[INFO] Client is from 127.0.0.1:50139
[INFO] Send hello msg to client
[INFO] List file to client
[INFO] Client send `test.txt` request
[INFO] Client send `123.txt` request

```

```
1. ./server 8888 (server)

~/Repo/socket-programming/file-transfer <master>
$ ./client 127.0.0.1 8888
[✓] Connect to server.
[✓] Server reply!
-----
Files on server:
123.txt
test.txt
-----
Enter the filename: test.txt
[-] Downloading `test.txt` ...
[✓] Download successfully!
-----
Enter the filename: 123.txt
[-] Downloading `123.txt` ...
[✓] Download successfully!
-----
Enter the filename: 
```

Deadline

- Please also upload **your code** and a **screenshot of your result** to iLms system.
 - Deadline: 100%, before 2016/11/20 23:59 (Sun.)
 - Deadline: 80%, before 2016/11/27 23:59 (Sun.)
 - Deadline: 60%, before 2016/12/4 23:59 (Sun.)
- After 2016/12/4, your submission is not accepted.
- Office Hour:
 - 15:30 ~ 17:20 on Wednesday, 綜二 705