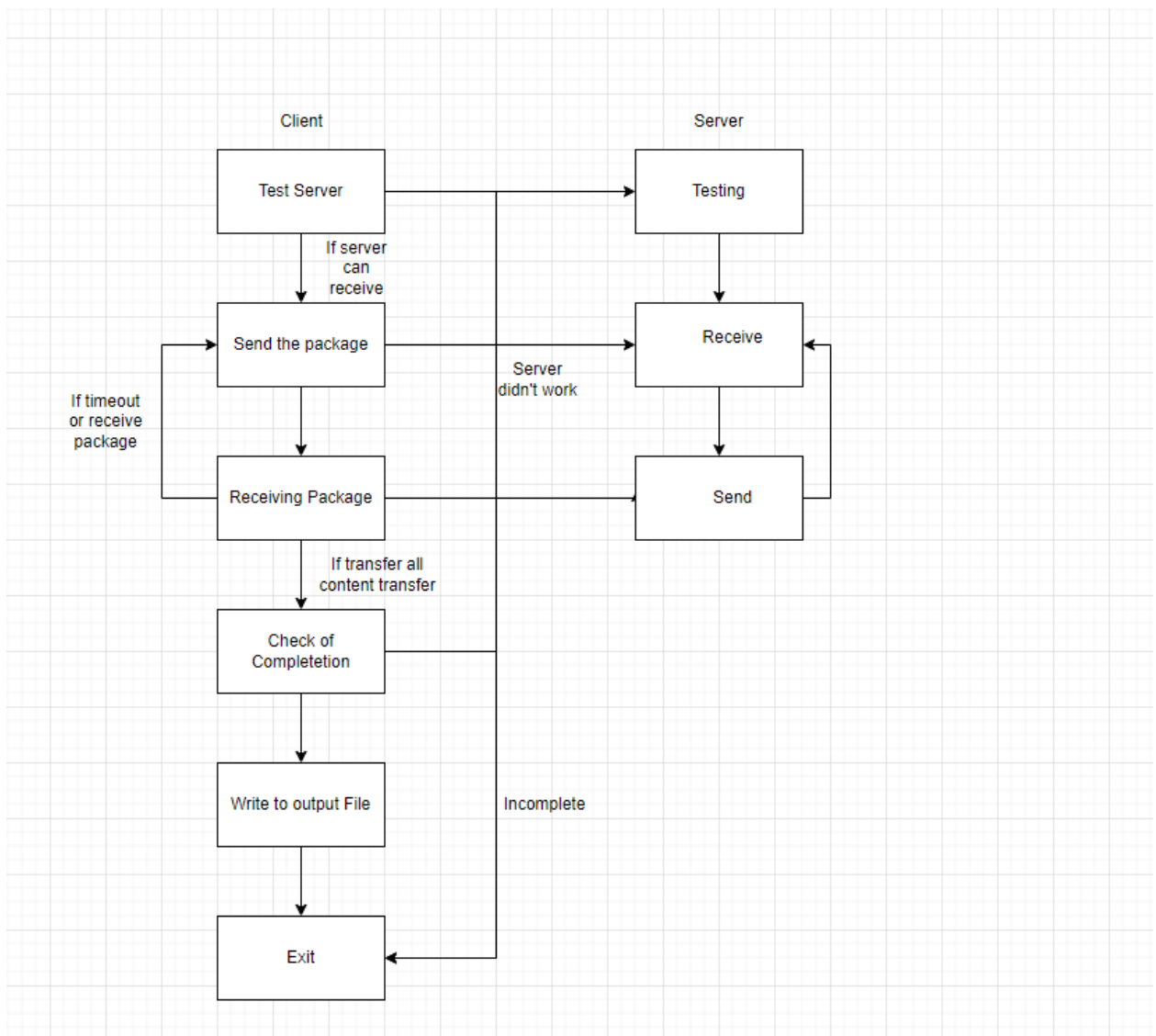


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### Lab2 Report

1. In this lab, we are building a http server and client that will echo back a file that is sent to the server.
2. The method I use is `recvfrom` and `sendto`, which are udp methods used to transfer messages between two computers.
3. The diagram of my code is as follows:



4. The file I use to test is a `in.txt` with content of 1-9 in two-line:



```

myclient.c x myweb.c x myserver.c x Assignment_2/Makefile x in.txt x out.txt x Assignment_1/Makefile x stdlib.h x CMakeLists.txt x
1 123456789
2 123456789

```

## 7. Test 3: No Server

```

(base) dongzihao@dongzihaoMacBook-Pro Assignment_2 % ./myclient 127.0.0.1 1024 5
./bin/in.txt ./bin/out.txt
6
can't find server
(base) dongzihao@dongzihaoMacBook-Pro Assignment_2 %

```

## 8. Test 4 : Incorrect Order:

```

clang -Wall -Wextra -Werror -Wpedantic -g -o bin/myclient bin/myclient.o -lm (base) dongzihao@dongzihaoMacBook-Pro Assignment_2 % ./bin/myclient 127.0.0.1 10
clang -Wall -Wextra -Werror -Wpedantic -g -o src/myserver.c -o bin/myserver.o 24 5 ./bin/in.txt ./bin/out.txt
clang -Wall -Wextra -Werror -Wpedantic -g -o bin/bmyserver bin/myserver.o -lm 6
(base) dongzihao@dongzihaoMacBook-Pro Assignment_2 % ./bin/myserver 1024 seq :0
zsh: no such file or directory: ./bin/myserver seq :1
(base) dongzihao@dongzihaoMacBook-Pro Assignment_2 % ./bin/bmyserver 1024 seq :3
successserver 1032 seq :2
server 13 size :5
server 13 size :5
server 13 size :4
server 13 size :5
[] (base) dongzihao@dongzihaoMacBook-Pro Assignment_2 %

```

```

1 123456789
2 678912345

```

To test Incorrect Order, I switch the order of packages 2 and 3. Here is the result:

## 9. Test 5: Lost Package:

To test package loss, I make the server try package number 2:

```

(base) dongzihao@dongzihaoMacBook-Pro Assignment_2 % make size :4
clang -Wall -Wextra -Werror -Wpedantic -g -o src/myclient.c -o bin/myclient.o size :5
clang -Wall -Wextra -Werror -Wpedantic -g -o bin/myclient bin/myclient.o -lm (base) dongzihao@dongzihaoMacBook-Pro Assignment_2 % ./bin/myclient 127.0.0.1 10
clang -Wall -Wextra -Werror -Wpedantic -g -o src/myserver.c -o bin/myserver.o 24 5 ./bin/in.txt ./bin/out.txt
clang -Wall -Wextra -Werror -Wpedantic -g -o bin/bmyserver bin/myserver.o -lm 6
(base) dongzihao@dongzihaoMacBook-Pro Assignment_2 % ./bin/bmyserver 1024 seq :0
successserver 1032 seq :1
server 13 time out
server 13 seq :3
server 13 size :5
size :5
size :292879232
package lost
(base) dongzihao@dongzihaoMacBook-Pro Assignment_2 %

```