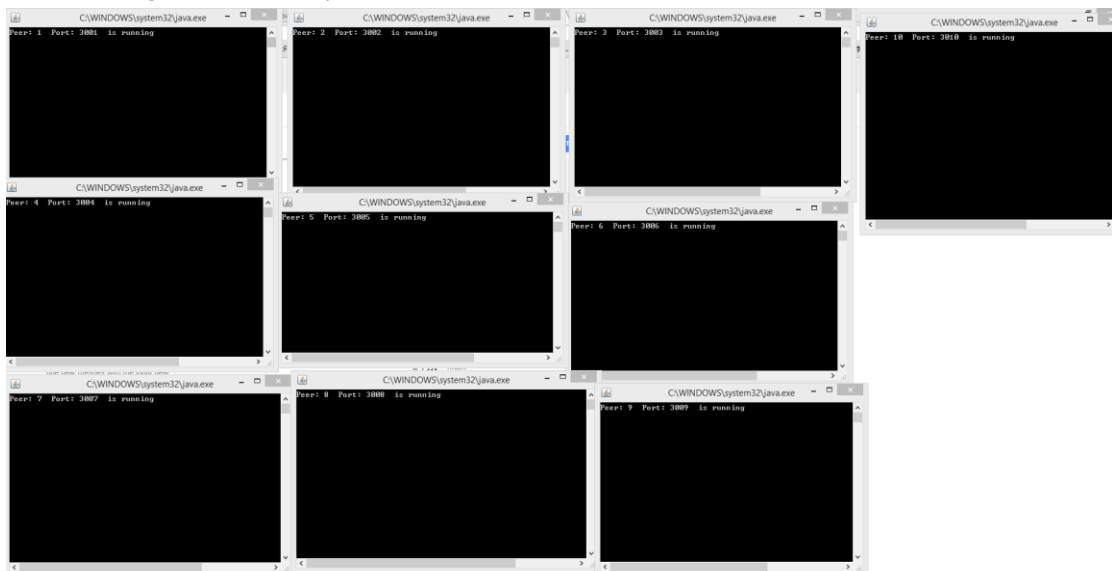# User Manual

1. Start peer servers

For star typology, enter CS550 PA2\Star, for 2D mesh typology enter CS550 PA2\Grid. You will see the following folders named as peer ids.

Name	Date modified	Type	Size
1	10/19/2014 8:28 PM	File folder	
2	10/19/2014 8:28 PM	File folder	
3	10/19/2014 8:28 PM	File folder	
4	10/19/2014 8:28 PM	File folder	
5	10/19/2014 8:28 PM	File folder	
6	10/19/2014 8:28 PM	File folder	
7	10/19/2014 8:28 PM	File folder	
8	10/19/2014 8:28 PM	File folder	
9	10/19/2014 8:28 PM	File folder	
10	10/19/2014 8:28 PM	File folder	

Then enter each peer's folder one by one, run "start.bat" to start each server.

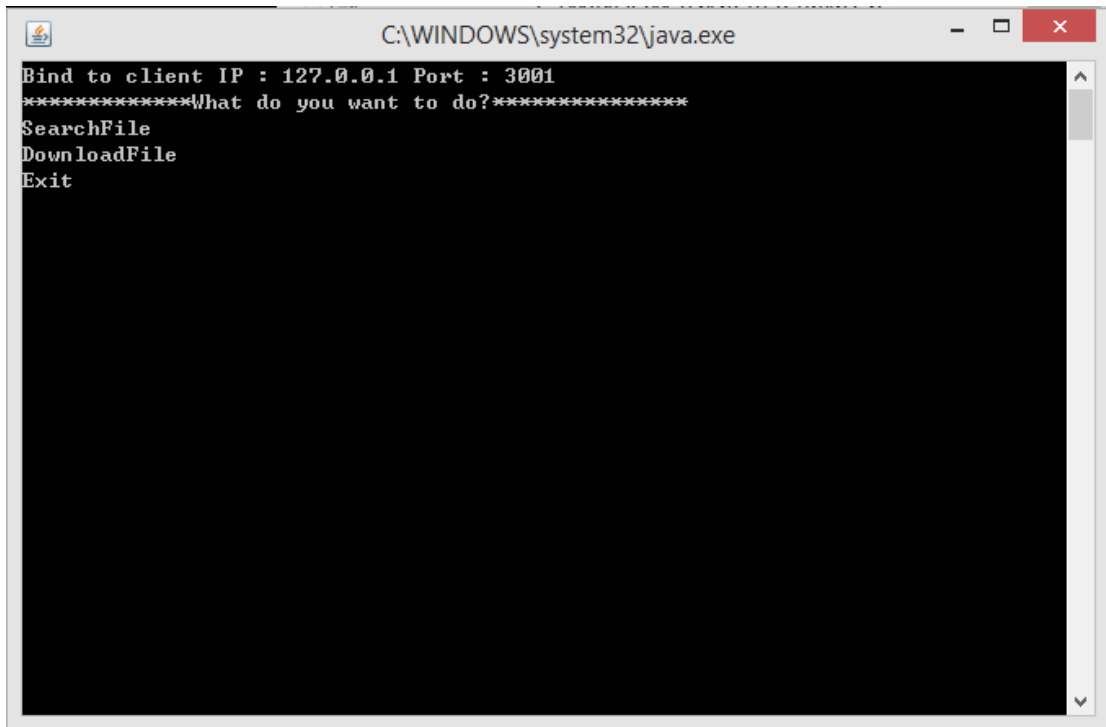| Name	Date modified	Type	Size
bin	10/19/2014 8:28 PM	File folder	
start	10/19/2014 6:03 PM	Windows Batch File	1 KB
startUser	10/19/2014 5:19 PM	Windows Batch File	1 KB

After running all the server, you will see this.

2. Start the client

Go to the peer folder, run the "startUser.bat" to run the client which binding to the peer. For example, if we need bind peer1, go to CS550 PA2\Star\1, run "startUser.bat". Then we will

see this.

3. Searching Files

Type "SearchFile" at client prompt, then type file name.

For example, type "test1.txt"(All peers have this file).

C:\WINDOWS\system32\java.exe

```
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
17
test1.txt  IP : 127.0.0.1  Port : 3001 is Hit
Broadcast begin
Broadcast begin
Broadcast begin
Broadcast begin
Broadcast begin
Broadcast begin
Broadcast begin
Broadcast begin
Broadcast begin
send request to peer: 2,3,4,5,6,7,8,9,10,waiting for th
```
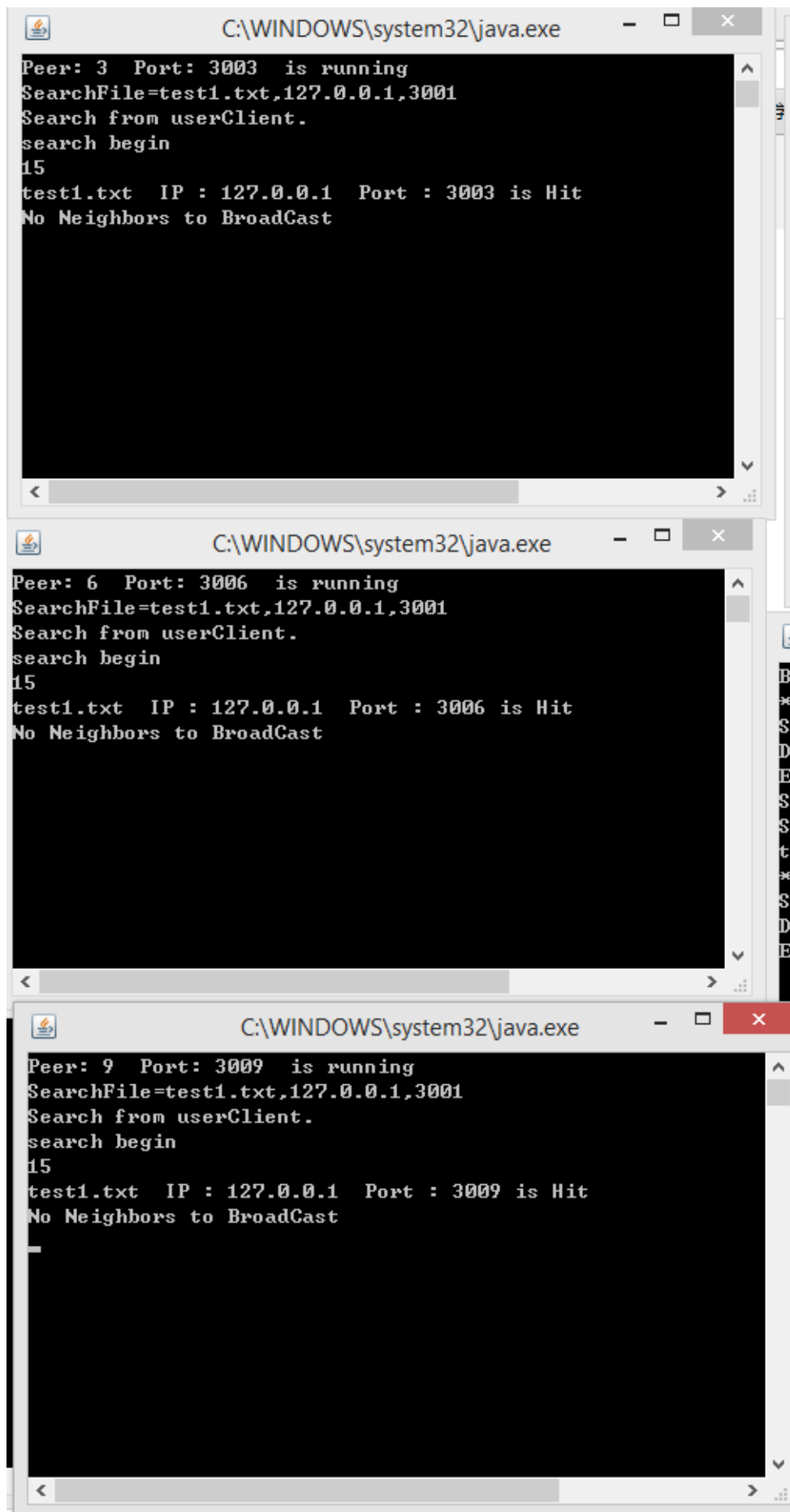
C:\WINDOWS\system32\java.exe

```
Peer: 4  Port: 3004  is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
15
test1.txt  IP : 127.0.0.1  Port : 3004 is Hit
No Neighbors to BroadCast
```

C:\WINDOWS\system32\java.exe

```
Peer: 7  Port: 3007  is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
15
test1.txt  IP : 127.0.0.1  Port : 3007 is Hit
No Neighbors to BroadCast
```

```
C:\WINDOWS\system32\java.exe

Peer: 2   Port: 3002   is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
16
test1.txt  IP : 127.0.0.1   Port : 3002 is Hit
No Neighbors to BroadCast
```
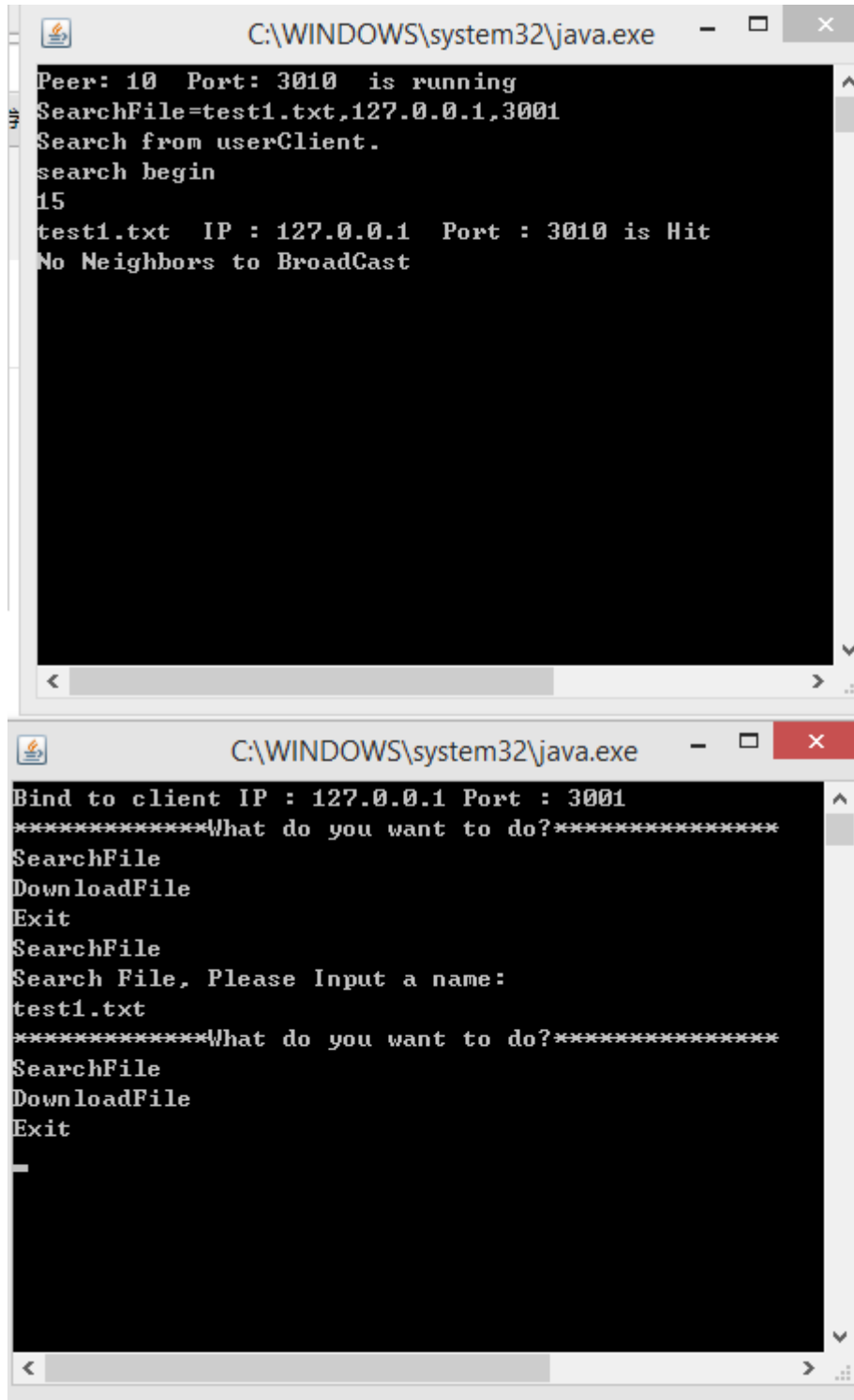
```
C:\WINDOWS\system32\java.exe

eer: 5   Port: 3005   is running
earchFile=test1.txt,127.0.0.1,3001
earch from userClient.
earch begin
5
est1.txt  IP : 127.0.0.1   Port : 3005 is Hit
 Neighbors to BroadCast
```

```
C:\WINDOWS\system32\java.exe

Peer: 8   Port: 3008   is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
15
test1.txt  IP : 127.0.0.1   Port : 3008 is Hit
No Neighbors to BroadCast
```

```
C:\WINDOWS\system32\java.exe

Peer: 3   Port: 3003   is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
15
test1.txt   IP : 127.0.0.1   Port : 3003 is Hit
No Neighbors to BroadCast
```

```
C:\WINDOWS\system32\java.exe

Peer: 6   Port: 3006   is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
15
test1.txt   IP : 127.0.0.1   Port : 3006 is Hit
No Neighbors to BroadCast
```

```
C:\WINDOWS\system32\java.exe

Peer: 9   Port: 3009   is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
15
test1.txt   IP : 127.0.0.1   Port : 3009 is Hit
No Neighbors to BroadCast
```

```
C:\WINDOWS\system32\java.exe                    _ □ ×
Peer: 10   Port: 3010   is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
15
test1.txt   IP : 127.0.0.1   Port : 3010 is Hit
No Neighbors to BroadCast
```



```
C:\WINDOWS\system32\java.exe                    _ □ ×
Bind to client IP : 127.0.0.1 Port : 3001
**************What do you want to do?***************
SearchFile
DownloadFile
Exit
SearchFile
Search File, Please Input a name:
test1.txt
**************What do you want to do?***************
SearchFile
DownloadFile
Exit
```

Each server will get a "hit" result.

4. Download a file

To download a file, simply type "DownloadFile" at the client prompt. Then input the file name, the ip address and the port number.

For example, download "p3t1.txt" from peer3.

Then the output will be:

Peer3 server upload the file:

Peer1 server download the file: