

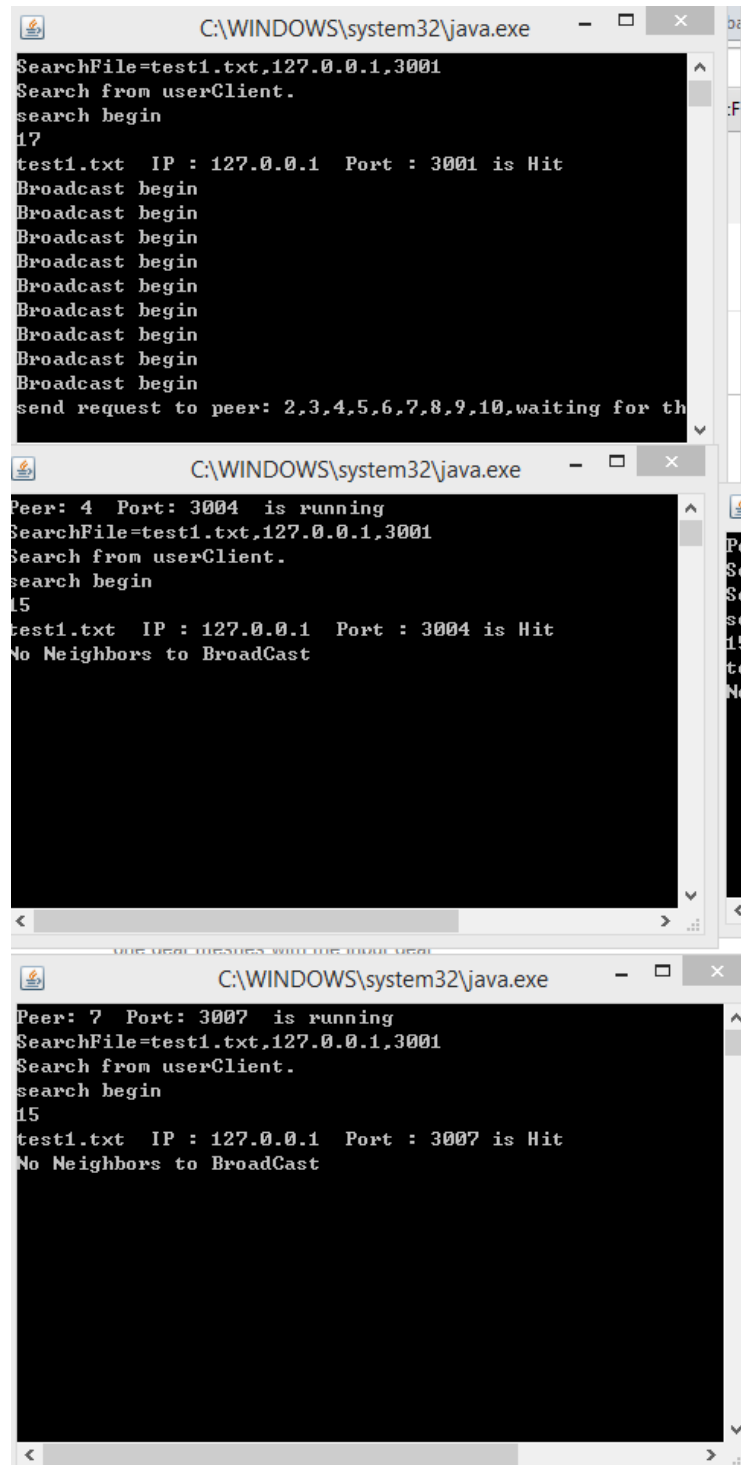
# Output File

## 1. Search Files Output

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

For example, type "test1.txt"(All peers have this file). The search result will show as below.

Each server will output a result with the filename, peer's IP and port. Then it will attempt to broadcast the searching message. If no other neighbors, it will output "No neighbor to broadcast".



The image displays three separate Java command windows, each titled "C:\WINDOWS\system32\java.exe".

The top window shows the following output:

```
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
Broadcast begin
send request to peer: 2,3,4,5,6,7,8,9,10,waiting for th
```

The middle window shows the following output:

```
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
```

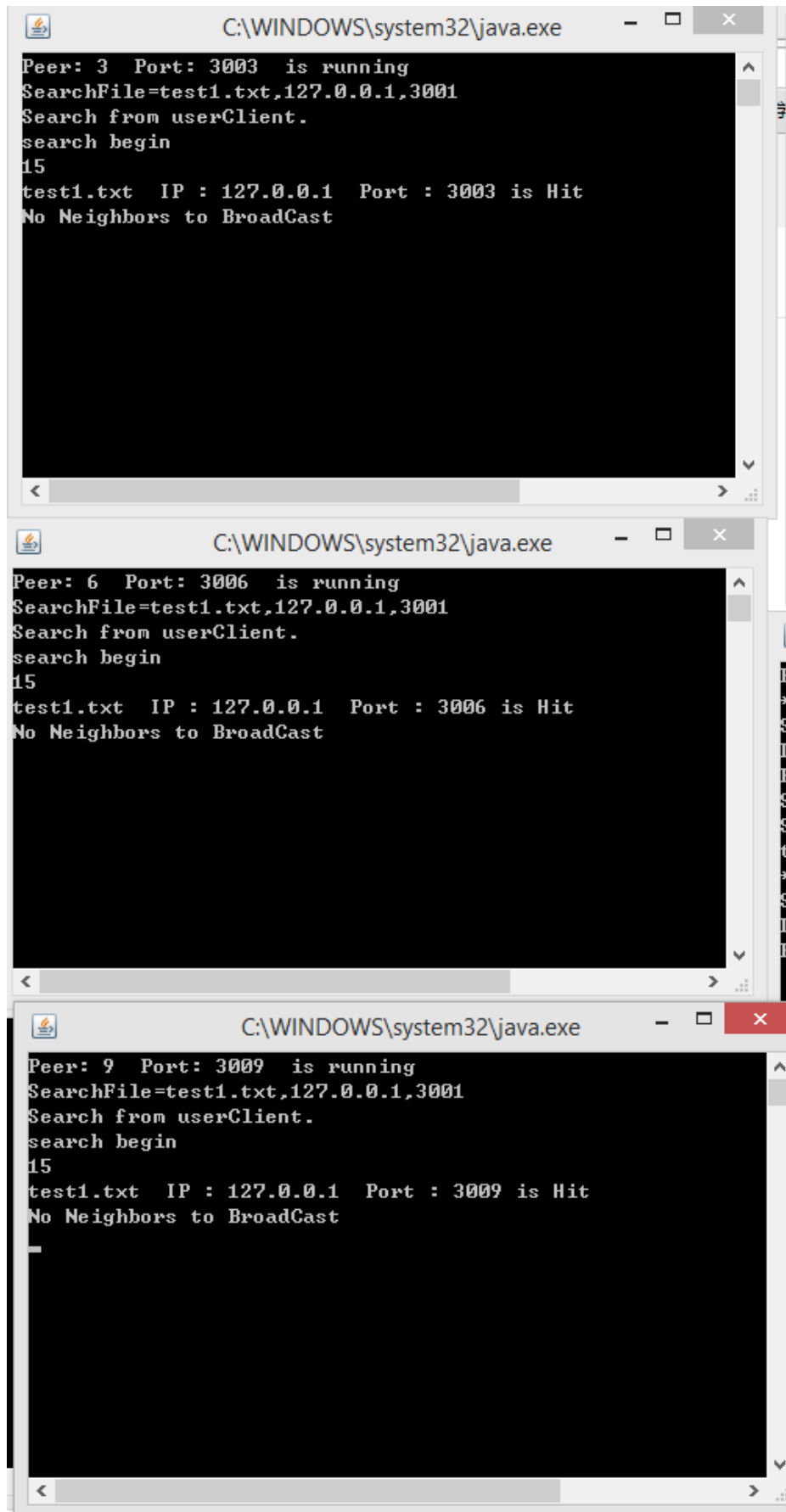
The bottom window shows the following output:

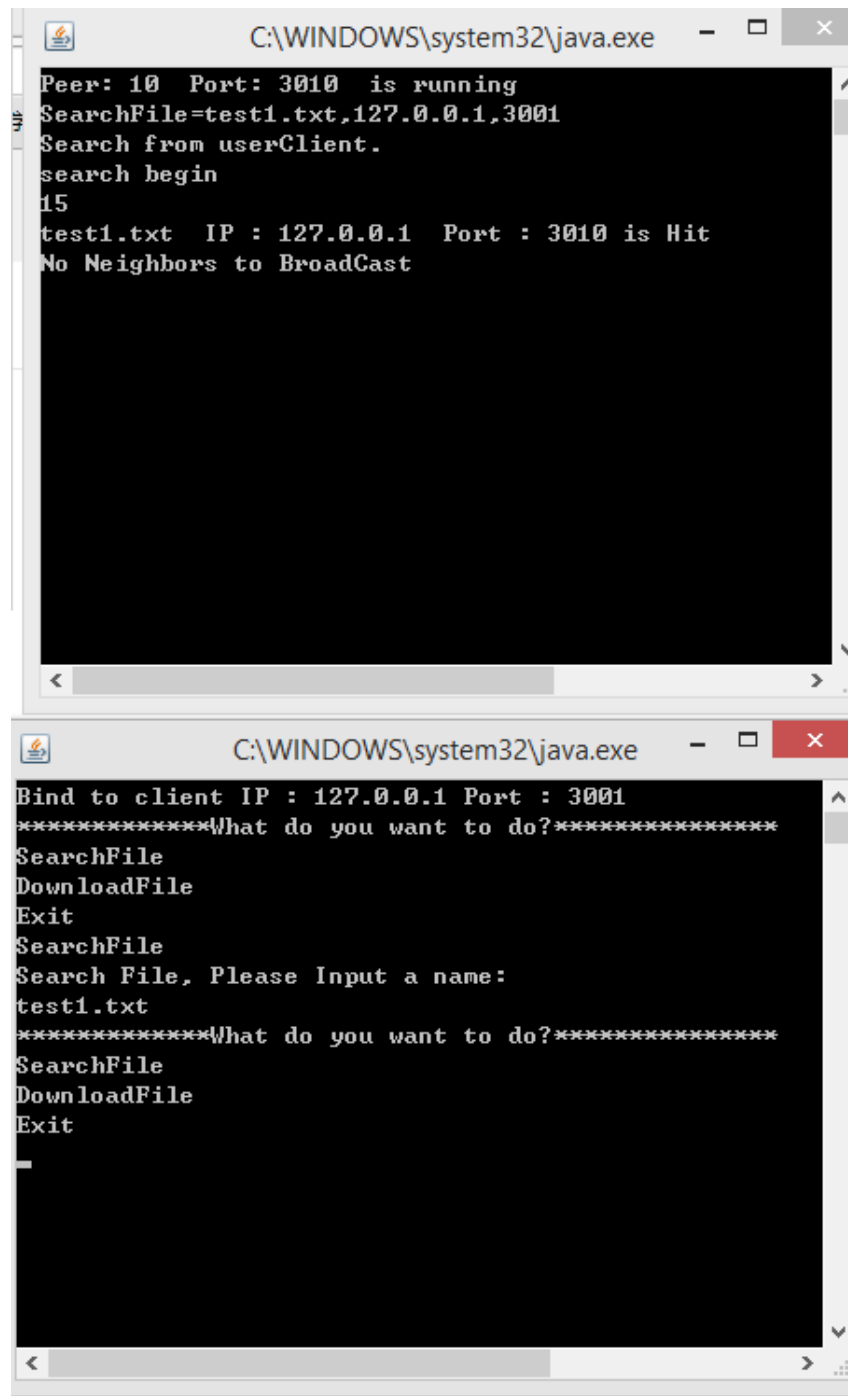
```
Peer: 7 Port: 3007 is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
15
test1.txt IP : 127.0.0.1 Port : 3007 is Hit
No Neighbors to BroadCast
```

```
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
Peer: 5 Port: 3005 is running
SearchFile=test1.txt,127.0.0.1,3001
Search from userClient.
search begin
5
test1.txt IP : 127.0.0.1 Port : 3005 is Hit
No 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
```





The image displays two screenshots of a Java application window titled "C:\WINDOWS\system32\java.exe".

The top screenshot shows the following output:

```
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
```

The bottom screenshot shows the following output:

```
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
```

## 2. Download file Output

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. The target server will output the upload information: filename, IP and port: "3 is Uploading File: p3t1.txt Uploading file to IP: 127.0.0.1 Port: 3001"

```
*****What do you want to do?*****
SearchFile
DownloadFile
Exit
DownloadFile
Search File, Please Input a filename:
p3t1.txt
Please Input IP address :
127.0.0.1
Please Input Port Number :
3003
```

Then the output will be:

Peer3 server upload the file:

```
UploadFile=p3t1.txt,127.0.0.1,3003
Uploading a File
Upload from IP : 127.0.0.1Port : 3001
15
3 is Uploading File: p3t1.txt
Uploading file to IP :127.0.0.1 Port : 3001
Upload Finished!
```

The local server will output download information:

"Download succeeded. File saved to "path"".

```
C:\windows\system32\java.exe
Peer: 1 Port: 3001 is running
DownloadFile=p3t1.txt,127.0.0.1,3003
Download a File
Download from IP : 127.0.0.1Port : 3003
Download succeeded. File saved to C:\Users\fanzhang\Downloads\CS550 PA2\Grid\1\b
in/p3t1.txt
```