Output

1) Run Peer

Command: java Peer
Peer Output:

```
dhcp158:Peer1 Devin$ java Peer
start Peer ...
RMI registry at port 1101.
Bind Succussfully.

----------------------------------
The menu options for user:
1.Set loop times for test (now is: 1)
2.Query files
3.Caculate the average reponce time of lastest query
4.Obtain files
5.Set a timer to call Search (So as to run with other peer simultaneously)
6.Fresh menu
7.Exit
----------------------------------
Please select a option number:

```

2) Query files and Obtain

Command: option 2
          file name: k.txt
Peer Output:

```
----------------------------------
Please select a option number:
2
Please enter the file name:
k.txt
or test (now is: 1)
----------------------------------
The menu options for user:     stest query
1.Set loop times for test (now is: 1)
2.Query files So as to run with other peer simultaneously)
3.Caculate the average reponce time of lastest query
4.Obtain files
5.Set a timer to call Search (So as to run with other peer simultaneously)
6.Fresh menu
7.Exit
----------------------------------
Please select a option number:
messge 01-1 hit!

```

Command: option 4
        file name: k.txt
Peer Output:

```
Please select a option number:
messge 01-1 hit!                                    20
4
Please enter the file name:
k.txt
There are all address of the peers keeping file k.txt:
1. rmi://127.0.0.1:1102/Peer
2. rmi://127.0.0.1:1103/Peer
3. rmi://127.0.0.1:1104/Peer
4. rmi://127.0.0.1:1105/Peer
5. rmi://127.0.0.1:1106/Peer  query

You can choose one to download the file: (Or you can enter 0 to cancel)
5
The file k.txt has been saved in the path: files/ Successfully.
The download speed is 2.103 MB/s
on number:
```

The operation to query a file which cannot achieve.
Command: option 2
        file name: z1.txt
Peer Output:

```
----------------------------------
Please select a option number:
2---------------
Please enter the file name:
z1.txt (now is: 1)

age  reponce time of lastest query
The menu options for user:
1.Set loop times for test (now is: 1)er peer simultaneously)
2.Query files
3.Caculate the average reponce time of lastest query
4.Obtain files--
5.Set a timer to call Search (So as to run with other peer simultaneously)
6.Fresh menu
7.Exit
----------------------------------
Please select a option number:
```

Peer Output:

```
-----------------------------------
Please select a option number:
4
Please enter the file name:
z1.txt---------
No queried peer has this file z1.txt.
or test (now is: 1)
```

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3) Calculate the average response time of latest query

Command: option 3 (Loop: 1)
Peer Output:

```
-----------------------------------
Please select a option number:
3est (now is: 1)
The avg responce time for lastest qurey is: 36.453 ms
ge reponce time of lastest query
-----------------------------------
```

---

4) Set loop time

Command: option 1
            enter 100 (Loop: 100)
Peer Output:

```
-----------------------------------
Please select a option number:
1
Please enter the loop time number:
100 r:
The loop time has been set as: 100.

e reponce time of lastest query
-----------------------------------
The menu options for user:with other peer simultaneously)
1.Set loop times for test (now is: 100)
2.Query files
3.Calculate the average responce time of latest query
4.Obtain files
5.Set a timer to call Search (So as to run with other peer simultaneously)
6.Fresh menu
7.Exit
-----------------------------------
```

Peer Output:

```
messge 01-96 hit!
messge 01-97 hit!
messge 01-98 hit!
messge 01-99 hit!
messge 01-100 hit!
messge 01-101 hit!
```

Peer Output:

```
4 java Peer
Please enter the file name:
n.txt
There are all address of the peers keeping file n.txt:
1. rmi://127.0.0.1:1103/Peer
2. rmi://127.0.0.1:1104/Peer
3. rmi://127.0.0.1:1105/Peer
4. rmi://127.0.0.1:1106/Peer
5. rmi://127.0.0.1:1107/Peer
e reponce time of lastest query
You can choose one to download the file: (Or you can enter 0 to cancel)
5 Search (So as to run with other peer simultaneously)
The file n.txt has been saved in the path: files/ Successfully.
The download speed is 40.246 MB/s
```

Peer Output:

```
Please select a option number:
3 est (now is: 1)
The avg reponce time for lastest qurey is: 15.144 ms
je reponce time of lastest query
```

5) Set a timer

Command: option 5
        set time: 14 14 00(set in 14 13 00)

Peer Output:

```
Please select a option number:
5
Please input the timer in format HH MM SS (ex. 11 30 00 means 11:30:00)
14 14 00
Please enter the searching file name:
m.txt --------
You create a query task for m.txt
It will start at Sun Feb 26 14:14:00 CST 2017

e reponce time of lastest query
--------------------------------
The menu options for user:with other peer simultaneously)
1.Set loop times for test (now is: 1)
2.Query files
3.Calculate the average responce time of latest query
4.Obtain files
5.Set a timer to call Search (So as to run with other peer simultaneously)
6.Fresh menu
7.Exit
--------------------------------
Please select a option number:

Timer for execting query m.txt start!

messge 01-2 hit!
```

Command: option 4
        file name: m.txt

Peer Output:

```
messge 01-2 hit!
4 ------------
Please enter the file name:
m.txt
There are all address of the peers keeping file m.txt:
1. rmi://127.0.0.1:1103/Peer
2. rmi://127.0.0.1:1104/Peer
3. rmi://127.0.0.1:1105/Peer
4. rmi://127.0.0.1:1106/Peer
5. rmi://127.0.0.1:1107/Peer

You can choose one to download the file: (Or you can enter 0 to cancel)
```

6) Exit Peer

Peer Output:

```
--------------------------------
Please select a option number:
7
Peer (rmi://127.0.0.1:1101/Peer) is exitting...

dhcp158:Peer1 Devin$
```