Testing

- Testing the Indexing Server:
 - o Building test: work.
 - Running test: work.

- o Listening:
 - Registration: work.

```
Peer number: localhost 60002 connected.
File 60002-10k.txt index created in the server
```

Searching:work.

Peers' testing:

- Building test: work.
- Running test: work.

Registration: work.

```
Connected to the server..

File 't1k.txt' index has been added successfully on the server!!
```

Searching for a file on the server: work.

```
Connected to the server..

File:(10k.txt) was found at peer\peers:

Peer ID: 60002, Peer IP: localhost
Peer ID: 60003, Peer IP: localhost
Peer ID: 60004, Peer IP: localhost
```

Downloading a file from a peer:work.

```
Connected to peer: localhost through port: 60003
s1k.txt has been downloaded successfully
```

- Listening to peers download request: work.
- Send the requested file to the requester peer: work.

```
** Peer localhost connected..

File s1k.txt has been sent successfully to peer localhost
-
```

- Performance result:
 - The average rate of 1000 search request responses when the server is **not** busy with any peer.

```
1000 search requests average rate is 1 ms.
```

• The average rate of 1000 search request responses when the server is busy with **another** peer.

```
1000 search requests average rate is 2 ms.
```

 The average rate of 1000 search request responses when the server is busy with **two** other peers.

```
1000 search requests average rate is 6 ms.
```

o Conclusion.

Avg Time in Millisecond for 1000 Search Request

