**CNT 5106C Project: Bit-torrent**

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1. **Brief Description:**

The server has a file, and it breaks the file into chunks of 100KB, each stored as a separate file. Then the server listens on a TCP port to serve multiple clients simultaneously.

After each peer gets parts of the file from the server, it gets the rest chunks from one of its neighbor and sends the chunks it has to the other neighbor. After clients get all chunks, it combine all of them to form the original file.

1. **Programing environment:** Java
2. **Topology:**

The network topology is set in the config.txt as following format:

Server port

Port for Client1, uploading peer, downloading port, downloading peer

Port for Client2, uploading peer, downloading port, downloading peer

Port for Client3, uploading peer, downloading port, downloading peer

Port for Client4, uploading peer, downloading port, downloading peer

Port for Client5, uploading peer, downloading port, downloading peer