# Main.cpp

### **Helper Functions**

- void SendCode();
- void recievePeers(string peers);
- string createReport();
- void sendReport();
- string getIPAddress();
- void registryConnect();
- void peerConnect();
- void setSnipString(string str);
- void setPeerString(string str);
- string getDate();
- int findPeer(vector<Peer> vec, Peer peer);
- void sendPeerMessages(string message);
- string getTimestamp();
- bool isValidAddress(string address);
- void sendOverTCP(string message);

### **Thread Functions**

- void processSnip();
- void processPeer();
- void endUserMenu();
- void sendPeersPeriodically();

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#### Peer

- ip : string

- port : string

- seconds\_since\_active : long

+ Peer(string)

+ setAddress(string) : void

+ getAddress(): string

+ getIP(): string

+ getPort(): string

+ setActive(): void

+ active(): bool

+ equals(Peer) : bool

# Peer.cpp

<sup>≲</sup>Use..

#### **RecdPeer**

- source : Peer

recd : Peerdate : string

+ RecdPeer(Peer, Peer, string)

+ toString(): string

+ getSource() : Peer

+ getRecd(): Peer

+ getDate(): string

Use

# **Snippet**

- timestamp : int

- message : string

- source : Peer

- date : string

+ Snippet(int, string, Peer, string)

+ toString(): string

+ getTimestamp : int

#### SentPeer

- dest : Peer

Use

- sent : Peer

- date :string

+ SentPeer(Peer, Peer, string)

+ toString(): string