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Program Listing

client.c: main() connect() //client connects to indexing server clientAsServer() //in a new thread, works as server-side of a peer select() //checks to see if any sockets have data to be read/written recv() //receive command from peer send() //send file back to peer while(1) //input command from user if command == retf retrieveFile() //will request file from peer connect() //connect to a peer to download from write() //send file request to peer read() //multiple times, reads the file chunks else if command == exit exit the program else write() //send command and arguments to the indexing server read() //read expected response from the indexing server server.c: main() select() //checks to see if any sockets have data to be read/written recv() //receive command from peer if command == addf addfile() //adds the file to the index else if command == remf remove_file() //removes the file from the index else if command == getf search_for_file() //find the file and its attached clients

send() //send response back to peer