Project for CCN

TCP/IP Server

Without error checking.

```
int listenFd, connectFd;
struct sockaddr in serverAddr;
listenFd = socket(AF INET, SOCK_STREAM, 0); // get a tcp/ip socket
bzero(&serverAddr, sizeof(serverAddr));
serverAddr.sin family = AF INET;
serverAddr.sin addr.s addr = htonl(INADDR ANY); // any iternet interface
                                                // on this server.
serverAddr.sin port = htons(13);
bind(listenFd, (struct sockaddr in *) &serverAddr, sizeof(serverAddr));
listen(listenFd, 5);
for (;;) {
      connectFd = accept(listenFd, (struct sockaddr in *) NULL, NULL);
      // .. read and write operations on connectFd ..
      shutdown(connectFd, 2);
     close(connectFd);
}
```

Note that the above is an iterative server, which means that it serves one connection at a time.

To build a concurrent server, a fork is performed after the accept. The child process closes listenFd, and communicates using connectFd. The parent process closes connectFd, and then loops back to the accept to wait for another connection request.

TCP/IP Client code