

### **Programming Assignment 3 (10 pts, Due at 5pm April 2 Thursday)**

In this programming assignment, you need to implement the movie query sever described in Programming Assignment 1 using the **select** function to handle multiple clients (instead of forking a child process for each client). All the requirements are the same as those in Programming Assignment 1.

Note that:

- 1) Test both your server and client programs in a single machine, and use IP address "127.0.0.1" (local host) as the server's IP address and port number "12345" for this service.
- 2) For the grading purpose, you **MUST** write your programs using C/C++ and put the source code for the client and server programs in files called "client3.c" and "server3.c" respectively. And, you **MUST** make sure that your programs work on the programming environment that TA described in the recitation.
- 3) You **MUST** submit the source code files as a single zip file (with the name of "YourLastName-FirstName-PA3.zip") to the blackboard before the deadline. Moreover, you need to bring a hard copy of your source code to the class on the due date. You may be asked to demo your programs by the TA.
- 4) You **MUST** write your own programs. You may reuse your own code for Programming Assignments 1&2. Copying codes from others or some online sources may result in serious consequences!!!