[2018 Network System Programming Homework 7]

Upload:

- 1. Please compress your homework into zip or tar archive.
- 2. Naming rules: "StudentID_SP_HW7.zip".

For example: M053040086_SP_HW7.zip

- 3. Upload your homework to National Sun Yat-sen Cyber University.
- 4. Deadline: 2018/11/25 (Sun.) 23:59.

Note:

- 1. Please use C language in this homework and run your program on Ubuntu 18.04.
- 2. Please provide Makefile to compile your homework; otherwise, you will get **ZERO**.
- 3. Do not copy homework of others. If it happened, you will get **ZERO** whether you are either the owner of the homework or the copycat.
- 4. If you have any question, please send email to sp_ta@net.nsysu.edu.tw or come to EC5018, but TA does not help to debug.
- 5. If you do not submit your assignment on time, you will not hand in the delayed homework and get **ZERO** as well. If you have trouble, please advise in advance by email. Moreover, time and place for demo will be announced late.

Question:

Rewrite the programs in **Listing 48-2** and **Listing 48-3** (**Section 48.4**) as a threaded application, with the two threads passing data to each other via a global buffer, and using POSIX semaphores for synchronization.