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Challenges encountered along the way:

- Had to look up documentation on how to properly use semaphores. At first, I was not printing the sequence properly and so was having difficulty emulating the correct output. I referenced the lecture videos as well as the lecture slides in order to get through this problem.

Sources:

- **lecture_7_semaphores.ppt**
- **02/15/2024 Lecture Recording**
- **02/20/2024 Lecture Recording**

Output:


0 updates are security updates.
New release '16.04.7 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Your Hardware Enablement Stack (HWE) is supported until April 2019.
IMPORTANT NOTICE:
-Change password on first login.
-Keep a copy of all your files on external and/or cloud storage.
-Linux accounts/files are locked after 6 months and are removed after one year.
-Linux access will be tentative after the end of each semester, so back up your data at the end of your semester.
Please submit your trouble-tickets here:
https://cs.utsa.edu/contact
https://utsacs.on.spiceworks.com/portal_registrations
Last login: Thu Mar 21 14:44:40 2024 from 172.22.209.24
zqe520@fox01:~$ cd working/cFiles/opSys
zqe520@fox01:~/working/cFiles/opSys$ clear
zqe520@fox01:~/working/cFiles/opSys$ ls
process_synchronization.c
zqe520@fox01:~/working/cFiles/opSys$ gcc process_synchronization.c -lpthread -o process_synchronization.out
zqe520@fox01:~/working/cFiles/opSys$ ./process_synchronization.out
I am second thread
0
1
2
3
4
5
6
7
8
9
I am first thread
10
11
12
13
14
15
16
17
18
19
I am third thread
20
21
22
23
24
25
26
27
28
29
30
zqe520@fox01:~/working/cFiles/opSys$

```
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```