

Weizhe Guo  
ECE 357  
PS 6

## Sample Run

```
[GUOWEIZHEdeMacBook-Pro:semaphore guoweizhe$ ./a.out
Problem 1 - Test and Set Spinlock
Part 1 - Without Lock
Synchronization problem exists: Expected: 640000 Actual: 633630
Part 2 - TAS Lock
No synchronization problems
Problem 2 - Implementing and testing Semaphores
Part 1 - Without Lock
Synchronization problem exists: Expected: 640000 Actual: 620060
Part 2 - Semaphore Lock
No synchronization problems
Problem 4 - Testing FIFO
Part 1 - Single Reader, Single Writer
No read errors detected
Part 2 - Single Reader, Multiple Writer
Current Iteration: 640000/640000
No read errors detected
GUOWEIZHEdeMacBook-Pro:semaphore guoweizhe$ █
```