Activity 9.3 – Process Synchronization and Deadlock

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root@--:~# ./semaphore.out
Thread 1 trying to decrement the semaphore
Thread 1 can enter its critical section
Thread 1 reads the value of the shared variable as: 1
Local update by Thread 1: 2
Thread 2 trying to decrement the semaphore
Value of the shared variable updated by Thread 1 is: 2
Thread 1 increment the semaphore
Thread 2 can enter its critical section
Thread 2 reads the value of the shared variable as: 2
Local update by Thread 2: 1
Value of the shared variable updated by Thread 2 is: 1
Thread 2 increment the semaphore
Final value of the shared variable is 1
root@--:~#
```

Compile and run the code list above. Screenshot the result and answer the following questions.

a. What is the final value of the shared variable?

The final value of the shared variable is 1

b. From the final value that you obtained, which thread first obtains access to the shared variable?

Thread 1 can get the access it first and will increment it by 1