Mutex

- ► A second common use for semaphores is to enforce <u>mut</u>ual exclusion
- It guarantees that only one thread accesses the shared variable at a time
- ► A mutex is like a token that passes from one thread to another, allowing one thread at a time to proceed
- Q: Add semaphores to the following example to enforce mutual exclusion to the shared variable i.

Thread A: i++ Thread B: i++

Why? Because i++ is not atomic.