How to avoid deadlocks

Avoiding deadlock using primitive synchronization mechanisms (locks and semaphores) is hard (cf chapter 32)

Implementing synchronization constructs

Two approaches:

- Either implement locks first (Linux approach) and build semaphores and condition variable on the top
 - → Linux has two versions
 - Spinlock (non-blocking)
 - Mutex (blocking)
- Or implement semaphores first (Pintos approach) and build locks and condition variable on top
 - → Pintos approach