Concurrency (Ch 26) Discussion Questions

- How does the thread creation interface presented in this chapter differ from fork()?
- Say we had a new syscall, thread_fork(), that made a new thread that started at the return of this call. How would this differ from fork()?
- Do we need to flush the TLB when context switching between threads in the same process?
- What is a race condition?
- How are race conditions and critical sections related?
- How does mutual exclusion prevent race conditions?
- How does atomicity prevent race conditions?
- Why are atomic instructions an impractical solution, by themselves, to prevent race conditions?

- would need an atomic operation for every
 possible use case: add to a queue, insert into a
 b-tree, etc..
- What does it mean for a program to be deterministic?
- What does it mean for a program to be indeterminate?