1.The following information is shared by two thread that are created by the same process

-global variable, heap, static data

2) the code below guarantee process

3. why is witching between thread less costly than switching between processes?

-Thread allows running code concurrently within a single process. Also, we don’t have to change as much stuff around be loading things into/out of memory.

4) what is the drawback to spinlocks

- The drawback to spinlocks is in busily loop and waiting for the lock to be released.

5. A situation where several processes access and manipulate the same data concurrently and the outcome of the execution depends on the particular order in which access takes place is called

-race condition

6) what is a test and set instruction

-perform a memory read and write in a single atomic step

7)which of the following operations would most likely need to be inside a critical section

**Reduce the value of a shared variable by 1.**