CSC 18B Quiz #3 (25 pts) – May 3rd, 2016
Name :   Mauricio S. Perez

All answers must be of your own work. Type out your answers and submit your quiz through Blackboard for Quiz #2 as either a MS Word document or PDF file (Mac users using Pages, make sure to Export to MS Word).

1. Two tasks that are operating ***concurrently*** are both making progress at once. (4points)

    b. concurrently

2. Two tasks that are operating ***in parallel*** are executing simultaneously. (4 points)

    b. in parallel

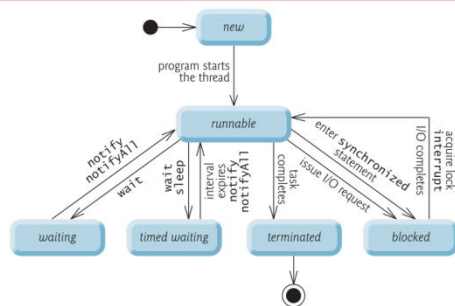3. Name all of the states that are in a thread's life cycle. (5 points)

1. New and Runnable States
2. Waiting State
3. Timed Waiting State
4. Blocked State
5. Terminated State
Section 23.2 in Early Objects Book

Fig. 23.1 | Thread life-cycle UML state diagram.

4. A new thread begins its life cycle by transitioning to the ***new*** state. (4 points)

    b. new.

23.2.1 New and Runnable States

A new thread begins its life cycle in the *new* state. It remains in this state until the program starts the thread, which places it in the *runnable* state. A thread in the *runnable* state is considered to be executing its task.

5. A waiting thread transitions back to the ***runnable*** state only when another thread notifies it to continue executing.
(4 points)

23.2.2 Waiting State

    a. runnable

Sometimes a *runnable* thread transitions to the *waiting* state while it waits for another thread to perform a task. A *waiting* thread transitions back to the *runnable* state only when another thread notifies it to continue executing.