Quiz

March 28, 2023



Which of the following is/are true about race condition and mutual exclusion?

- Implementation of critical sections require mutual exclusion, bounded-waiting and progress.
- Race condition may happen when two processes concurrently access shared variables.
- Priority inversion may happen when two processes are synchronized with semaphores.
- Peterson's solution satisfies all the three requirements of critical section implementation

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Which of the following is/are true about semaphores?

- A binary semaphore could only have two values whereas a counting semaphore could have more than two values.
- Semaphores must be implemented in the kernel.
- When solving producer-consumer problem with semaphores, it is OK to swap the order of wait(&fill) and wait(&mutex).
- In the correct solution to dining philosopher problem, semaphore is used to model a chopstick.

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