	Which of the follow	ing variables ar	re shared between	the processes in	Peterson's solution?
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- 1. int turn
- 2. boolean flag[2]
- 3. both turn and flag
- 4. No variables are shared.

What is the correct order of operations for protecting a critical section using a binary semaphore?

- 1. release() followed by acquire()
- 2. acquire() followed by release()
- 3. wait() followed by signal()
- 4. signal() followed by wait()

In ______, the process requests permission to access and modify variables shared with others.

- 1. entry section
- 2. critical section
- 3. exit section
- 4. remainder section

Which of the following critical-section problem's requirements ensures programs will cooperatively determine what process will next enter its critical section?

- 1. mutual exclusion
- 2. progress
- 3. bounded waiting
- 4. none of the rest

Which of the following critical-section problem's requirements limits the amount of time a program will wait before it can enter its critical section?

- 1. mutual exclusion
- 2. progress
- 3. bounded waiting
- 4. none of the rest

The counting semaphore is initialized to _____.

- 1. 0
- 2. 1
- 3. the number of resources available
- 4. none of the rest

Which of the following is NOT true regarding semaphore's queue-based implementation?

- 1. It suffers from the busy waiting problem
- 2. Semaphore has a waiting queue associated with the semaphore

- 3. When a process executes the *wait()* operation and finds that the semaphore value is not positive, it will suspend itself
- 4. A process that is suspended, waiting on the semaphore, should be restarted when some other process executes a signal() operation.

Which of the following is NOT true for Peterson's solution?

- 1. Mutual exclusion is preserved
- 2. The progress requirement is satisfied
- 3. The bounded-waiting requirement is met
- 4. Peterson's solution works for synchronization among more than two processes

Busy waiting refers to the phenomenon that while a process is in its critical section, any other process that tries to enter its critical section must loop continuously in the call to acquire the mutex lock.

- 1. True
- 2. False

The value of a counting semaphore can range only between 0 and 1.

- 1. True
- 2. False