Questions

Checkboxes

0.5/1.0 point (graded)

Which of the follwings is/are true? (There might be multiple correct answers)

- [x] Bounded waiting may help to build an efficient solution to synchronize the shared processes.
- [x] Inter process communication mechanism might introduce process synchronization problem. *
- [x] Starvation and deadlock could be a result of busy waiting of a semaphore. *
- [x] Deadlock avoidance is a significant requirement of a critical section problem solution.

*

Submit You have used 2 of 2 attempts

Answers are displayed within the problem

Checkboxes

0.75/1.0 point (graded)

Which of the follwings is/are false? (There might be multiple correct answers)

- [ ] Peterson's solution sometimes called two processes critical section solution
- [ ] Semaphore is implemented as hardware based solution. ✔
- [x] Basic Compare and swap ensures bounded waiting ✱
- [ ] Mutually exclusiveness ensures no two processes can enter a critical section simultaneously.

✱

Submit You have used 2 of 2 attempts

Answers are displayed within the problem

Numerical Input

1.0/1.0 point (graded)

Suppose in Producer-Consumer Problem,

a) Consumer performs the first two lines of machine instruction

b) Producer performs the first two line of machine instruction

c) Consumer performs another line of machine instruction

r line of machine instruction

In the producer consumer problem, the producer performs 'counter+=2' and the consumer performs 'counter--'. If the initial value of counter is 7, what would be the new value after executing the above four instructions?

9 ✔

9

Submit You have used 1 of 1 attempt

Multiple Choice

1.0/1.0 point (graded)

In reader-writer problem _____ number of processes get queued in the mutex.

- ○ n
- ○ n*n
- ○ n+1
- ◉ n-1 ✔

Submit You have used 1 of 1 attempt

Multiple Choice

If we implement counting semaphore the initial value of S=4. Then which number of process have to

wait in P signal for the first time?

- ◯ 4
- ◉ 5
- ◯ 6
- ◯ Can not provide appropriate answer.

✔

Submit