

New submission for: Lecture 24 Exercise

Due: 12/05/2020 @ 11:59 PM EST

Question 1. Which of the following schedule and sequence of locks are possible under two phase locking (Note: sl, xl, ul stand for shared lock, xlock and unlock of a data item. Assume that xl works like an upgrade lock.)?

- ☐ sl1(x) sl2(x) sl2(y) r1(x) r2(x) r2(y) ul2(y) ul2(x) xl1(x) xl1(y) w1(x) w1(y) xl2(z) w2(z)
- ☐ sl2(x) sl2(y) sl1(x) r1(x) r2(x) r2(y) ul2(x) ul2(y) xl1(x) w1(x) w1(y) xl1(y) xl2(z) w2(z)
- ☐ sl2(x) sl2(y) sl1(x) r1(x) r2(x) r2(y) ul2(x) ul2(y) xl1(x) xl2(z) w1(x) w1(y) xl1(y) w2(z)
- ☐ sl2(x) sl2(y) sl1(x) r1(x) r2(x) r2(y) xl2(z) ul2(x) ul2(y) w1(x) w1(y) xl1(y) w2(z)
- ☒ sl1(x) sl2(x) r1(x) r2(x) sl2(y) r2(y) xl2(z) ul2(y) ul2(x) xl1(x) xl1(y) w1(x) w1(y) w2(z)
- ☐ xl1(x) sl2(x) r1(x) r2(x) sl2(y) r2(y) xl2(z) ul2(y) xl1(y) w1(x) w1(y) w2(z)
- ☐ None of these options

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Question 2. For the following schedule, check all that is correct:

r1(x) r3(y) w3(y) r1(y) w1(x) r3(z) r3(z) r2(w) w2(y) w2(z)

- ☒ In all serial schedules equivalent to this schedule: T1 must come before T2
- ☐ In all serial schedules equivalent to this schedule: T2 must come before T1
- ☐ In all serial schedules equivalent to this schedule: T1 must come before T3
- ☒ In all serial schedules equivalent to this schedule: T3 must come before T1
- ☐ In all serial schedules equivalent to this schedule: T2 must come before T3
- ☒ In all serial schedules equivalent to this schedule: T3 must come before T2
- ☐ A serial schedule equivalent to this schedule is: T1 T2 T3
- ☐ A serial schedule equivalent to this schedule is: T1 T3 T2
- ☐ A serial schedule equivalent to this schedule is: T2 T1 T3
- ☐ A serial schedule equivalent to this schedule is: T2 T3 T1
- ☐ A serial schedule equivalent to this schedule is: T3 T2 T1
- ☒ A serial schedule equivalent to this schedule is: T3 T1 T2
- ☒ This schedule is serializable
- ☐ This schedule is not serializable
- ☐ None of these options are true

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