

CSE 344 Section 6 Worksheet

1. Consider these three transactions:

- $T1 : R1(A), R1(B), W1(A), W1(B), Co1$
- $T2 : R2(B), W2(B), R2(C), W2(C), Co2$
- $T3 : R3(C), W3(C), R3(A), W3(A), Co3$

a. Schedule 1:

$R2(B), W2(B), R3(C), W3(C), R3(A), W3(A), Co3, R2(C), W2(C), Co2, R1(A), R1(B), W1(A), W1(B), Co1$

Is this schedule conflict-serializable? If yes, indicate a serialization order.

b. Schedule 2:

$R2(B), W2(B), R3(C), W3(C), R1(A), R1(B), W1(A), W1(B), Co1, R2(C), W2(C), Co2, R3(A), W3(A), Co3$

Is this schedule conflict-serializable? If yes, indicate a serialization order.

2. Consider the following three transactions:

- $T1 : R1(A), W1(B), Co1$
- $T2 : R2(B), W2(C), Co2$
- $T3 : R3(C), W3(D), Co3$

Given an example of a conflict-serializable schedule that has the following properties:
transaction T1 commits before transaction T3 starts, and the equivalent serial order is
T3, T2, T1.