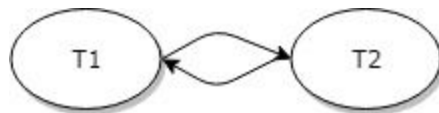


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 CS143 - Database Systems
 Rosario
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Homework 5 Writeup

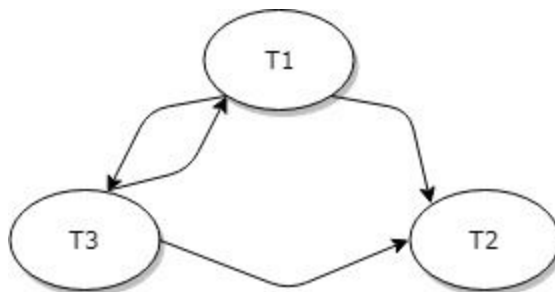
1.

- a. No, S is not serial because T2 runs in between T1 - they are not sequential.
- b. No, S is not conflict serializable because if we draw a precedence graph, there exists a cycle.



2.

a.



- b. No, there is a cycle in the precedence graph.

3.

- a. T1 executes first: 40000
 T1 executes after T2: 41200
 T1 executes after T3: 16000
 T1 executes last, but T3 executes first: 17200
 T1 executes last, but T2 executes first: 17100
- b. T1 executes first: 40000
 T1 executes in between T2: 40200
 T1 executes right after T2: 41200
 T1 executes right after T3: 16000
 T1 executes after T2 and T3 respectively: 17100
 T1 executes after T3 and T2 respectively: 17200
 T1 executes after T3 and in between T2: 16200