CS150A Quiz #6

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Schedule 1

T1	R(A)		W(A)			R(B)			W(B)	
T2		R(A)						W(A)		R(C)
Т3				R(A)	R(B)		R(C)			

1	1) Select all edges	that are present in	the above sch	nanah s'aluha	dency graph
Ι.	1) Select all edges	that are present if	i the above sch	eaule S aeben	aencv arabn.

Notice that order matters! b is the destination node. Check all that apply.	The edges are in t	he format (a, b),	where a is the	source node,	, and
(T1, T2)					
(T1, T3)					
(T2, T1)					
(T2, T3)					

(T3, T1) (T3, T2)

2. 2) This schedule is:

Select all that apply.

Check all that apply.

Serial

Serializable

Conflict Serializable

None of the above

Schedule 2

T1		R(A)		W(A)					R(B)	W(B)
T2			R(A)				W(A)	R(C)		
Т3	R(B)				R(C)	R(A)				

3. 3) Schedule 1 and schedule 2 are conflict equivalent. Mark only one oval.
True False
4. 4) True or False: Every serializable schedule is also conflict serializable. Mark only one oval.
True False
5. 5) True or False: If its dependency graph has no cycles, a schedule is always conflict serializable. Mark only one oval.
True False
_ocks

Each column represents a single transaction:

T1	T2
Lock_X (A)	
Lock_S (B)	
	Lock_S (B)
Read (A)	
	Read (B)
	Lock_S (A)
Read (B)	
A := B+A	
Write (A)	
Lock_X (C)	
Read (C)	
C := A+C	
Write (C)	
COMMIT	
Unlock (A)	
	Read (A)
	Lock_S (C)
Unlock (C)	
Unlock (B)	
	Read (C)
	print (C + B)
	COMMIT
	Unlock(C)
	Unlock(B)
	Unlock(A)

6. 6) If the initial values of A, B, and C are 10, 50, 75 respectively, what is printed by print(C+B)?

Strict 2-phase locking	
None of the above	