S1) Is serializable because the graph is cycle free. Goes from T1 to T2 and does not go back. Equivalent:

Lquivaiciici	
T1	T2
lock A	
lock B	
lock C	
unlock A	
unlock B	
unlock C	
	lock A
	lock C
	unlock A
	unlock C

S2) Is not serializable because the graph goes from T4 to T3 then back to T4. Therefore there is a cycle.

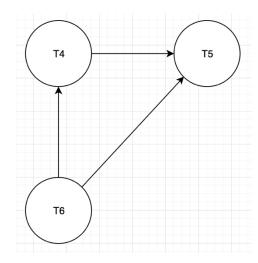
S3) Is serializable because the graph is cycle free.

T6: wlock A
T6: unlock A
T4: rlock A
T6: wlock B
T5: rlock A
T6: unlock B
T4: wlock B
T5: unlock A
T4: unlock A
T4: unlock B
T5: rlock B
T5: unlock B

R	W
T4: rlock A	
T5: rlock A	
T5: rlock B	

W	W
T6: wlock A	
T6: wlock B	T4: wlock B

W	R
T4: rlock A	T6: wlock A
T5: rlock A	T6: wlock A
T5: rlock B	T6: wlock B
T5: rlock B	T4: wlock B



## Equivalent:

T4	T5	Т6
		wlock A
		unlock A
		wlock B
rlock A		
	rlock A	
		unlock B
	wlock B	
	unlock A	
unlock B		
unlock A		
	rlock B	
	unlock B	

## S4) Is not serializable because there is a cycle in the graph.

T6: wlock A
T7: rlock B
T6: unlock A
T7: unlock B
T6: wlock B
T5: rlock A
T6: unlock B
T5: unlock A
T7: wlock A
T5: rlock B
T7: unlock A
T5: unlock B

R	W
T7: rlock B	T6: wlock B
T5: rlock A	T7: wlock A
T5: rlock B	

W	W
T6: wlock A	T7: wlock A
T6: wlock B	

R	W
T5: rlock A	T6: wlock A
T5: rlock B	T6: wlock B
	T7: wlock A

