

HW 4 (Due 12/4):

- 1) Assume that we have three transactions. These transactions use read-lock (RLOCK) and write-read lock (WLOCK). The following is one schedule of these transactions. Please find whether these transactions are serializable? If not, give reason. If so, give the equivalent serial schedule.

T1	T2	T3
RLOCK A		
	RLOCK B	
RLOCK C		
ULOCK A		
		WLOCK A
		UNLOCK A
	UNLOCK B	
WLOCK A		
UNLOCK C		
	WLOCK C	
		RLOCK B
		UNLOCK B
ULOCK A		
		WLOCK B
	UNLOCK C	
		UNLOCK B

- 2) Same as Problem 1 except that in this problem it is read-lock (RLOCK) and write-lock (WLOCK). Please find whether these transactions are serializable? If not, give reason. If so, give the equivalent serial schedule.