Extra Practice
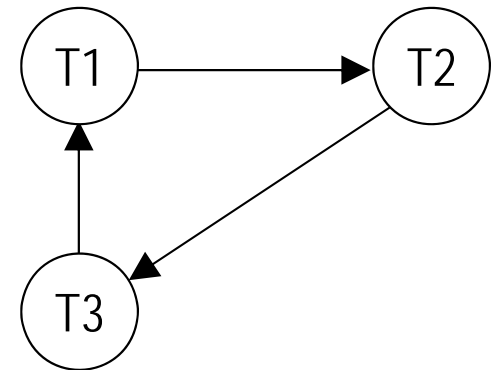
- Would the following schedule produce deadlock?

$w_1(A); w_3(B); r_3(C); r_2(D); r_1(D); w_1(D); w_2(C); r_3(A); w_2(A)$

  - assume: no update locks;
    a lock for an item is acquired just before it is first needed

T$_1$	T$_2$	T$_3$
xl(A); w(A)		
		xl(B); w(B) sl(C); r(C)
	sl(D); r(D)	
sl(D); r(D) xl(D) *denied; wait for T2*		
	xl(C) *denied; wait for T3*	
		sl(A) *denied; wait for T1*

cycle – deadlock!