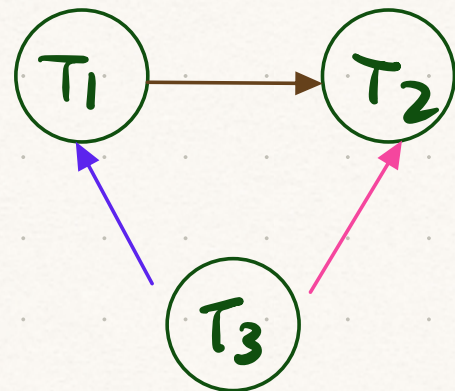


CSCI 4125 Phase 7 Shijun Jiang

S_1 :

T1	T2	T3
R(X)		
	R(Z)	
R(Z)		R(X)
		R(Y)
W(X)		
		W(Y)
	R(Y)	
	W(Z)	
	W(Y)	



There is no cycle.
So For S_1 , it is serializable.

Conflict:

$R_3(X) \rightarrow W_1(X) (T_3 \rightarrow T_1)$

$R_1(Z) \rightarrow W_2(Z) (T_1 \rightarrow T_2)$

$R_3(Y) \rightarrow W_2(Y) (T_3 \rightarrow T_2)$

$W_3(Y) \rightarrow W_2(Y) (T_3 \rightarrow T_2)$

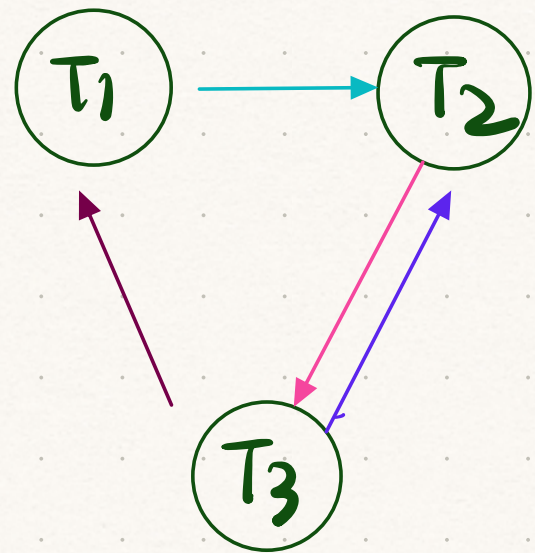
$W_3(Y) \rightarrow R_2(Y) (T_3 \rightarrow T_2)$

$T_3 \rightarrow T_1 \rightarrow T_2$

S_2 :

T_1	T_2	T_3
$R(X)$		
	$R(Z)$	
		$R(X)$
$R(Z)$		
	$R(Y)$	
		$R(Y)$
$W(X)$		
	$W(Z)$	
		$W(Y)$
	$W(Y)$	

$R_3(X) \rightarrow W_1(X) \quad (T_3 \rightarrow T_1)$
 $R_3(Y) \rightarrow W_2(Y) \quad (T_3 \rightarrow T_2)$
 $R_2(Y) \rightarrow W_3(Y) \quad (T_2 \rightarrow T_3)$
 $R_1(Z) \rightarrow W_2(Z) \quad (T_1 \rightarrow T_2)$
 $W_3(Y) \rightarrow W_2(Y) \quad (T_3 \rightarrow T_2)$



There is a
 cycle \rightarrow
 No serializable!