

For code 1 $[T_1 \rightarrow 1a \text{ and } T_2 \rightarrow 1b]$

T_1	T_2
$R(x)$	$R(x)$
$w(x)$	$w(x)$

Conflict Serializable

T_1	T_2
$R(x)$	
$w(x)$	
	$R(x)$
	$w(x)$

Non - Conflict Serializable

T_1	T_2
$R(x)$	
	$R(x)$
$w(x)$	
	$w(x)$

Now, trying to solve the conflicts using locks:

T_1	T_2
$e_lock(x)$	
$R(x)$	
$w(x)$	
$unlock(x)$	
	$e_lock(x)$
	$R(x)$
	$w(x)$
	$unlock(x)$

T_1	T_2
$s_lock(x)$	
$R(x)$	
	$s_lock(x)$
	$R(x)$
$unlock(x)$	
$e_lock(x)$	
$w(x)$	
$unlock(x)$	
	$e_lock(x)$
	$w(x)$
	$unlock(x)$

For code 2 [T_1 for 2a and T_2 for 2b]

T_1	T_2
$R(x)$	$R(x)$
$w(x)$	$w(x)$
$R(y)$	$R(y)$
$w(y)$	$w(y)$
	$R(z)$
	$w(z)$

Conflict Serializable

T_1	T_2
$R(x)$ $w(x)$	$R(x)$ $w(x)$
$R(y)$ $w(y)$	$R(y)$ $w(y)$ $R(z)$ $w(z)$

Non Conflict Serializable

T_1	T_2
$R(x)$ $w(x)$	$R(x)$
$R(y)$	$w(x)$ $R(y)$
$w(y)$	$w(y)$ $R(z)$ $w(z)$

Now, trying to solve the conflicts using locks

T_1	T_2
$e_lock(x)$ $R(x)$ $w(x)$ $unlock(x)$	$e_lock(x)$ $R(x)$ $w(x)$ $unlock(x)$
$e_lock(y)$ $R(y)$ $w(y)$ $unlock(y)$	$e_lock(y)$ $R(y)$ $w(y)$ $unlock(y)$ $e_lock(z)$ $R(z)$ $w(z)$ $unlock(z)$

T_1	T_2
$e_lock(x)$ $R(x)$ $w(x)$ $unlock(x)$	$S_lock(x)$ $R(x)$ $unlock(x)$ $S_lock(x)$ $w(x)$ $unlock(x)$ $S_lock(y)$ $R(y)$ $unlock(y)$ $e_lock(y)$ $w(y)$ $unlock(y)$ $e_lock(y)$ $w(y)$ $unlock(y)$ $e_lock(z)$ $w(z)$ $unlock(z)$ $e_lock(z)$

T_1	T_2
	$R(z)$ $w(z)$ $unlock(z)$