

20-1 Before T_1 and T_2 - $A = 100$, $B = 100$

$$\therefore A + B = 200$$

After T_1 : (Commit done)

$$A = 50$$

$$B = 150$$

$$\therefore A + B = 200$$

After T_2 (Commit done)

$$A = 45$$

$$B = 155$$

$$A + B = 45 + 155 = 200$$

~~He~~ consistent.

20-2

T_1	T_2
$A = 50$	$A = 100 - 10 = 90$
	$B = 100$
$A = 90$	
$B = 150$	$B = 160$

T_1	T_2
$A = 50$	$A = 50 - 5 = 45$
$B = 150$	$B = 155$

Before T_1, T_2

$$A + B = 200 = 100 + 100$$

After committing in T_1 ,

~~20~~

$$A + B = 90 + 150 = 240$$

After committing T_2 .

$$A + B = 90 + 160 = 250.$$

Not-consistent.

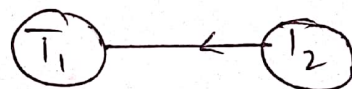
21-1

First read of T_1 conflicts with write T_2 .
So, we can draw,

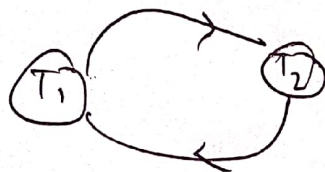


For write of T_2 conflicts with write of

T_1 . So,



So, find graph -



Here is a cycle.