

Conflict Serializability

Q. Check whether the given schedule is conflict serializable or not.

$R_1(A), R_2(A), R_1(B), R_2(B), R_3(B), W_1(A), W_2(B)$

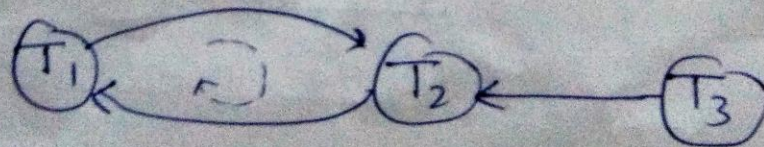
sol. \rightarrow

T_1	T_2	T_3
Read(A)		
	Read(A)	
Read(B)		
	Read(B)	
		Read(B)
write(A)		
	write(B)	

Now we will check for Read-write, write-Read, write-write operation on same data item in different transaction.

Here

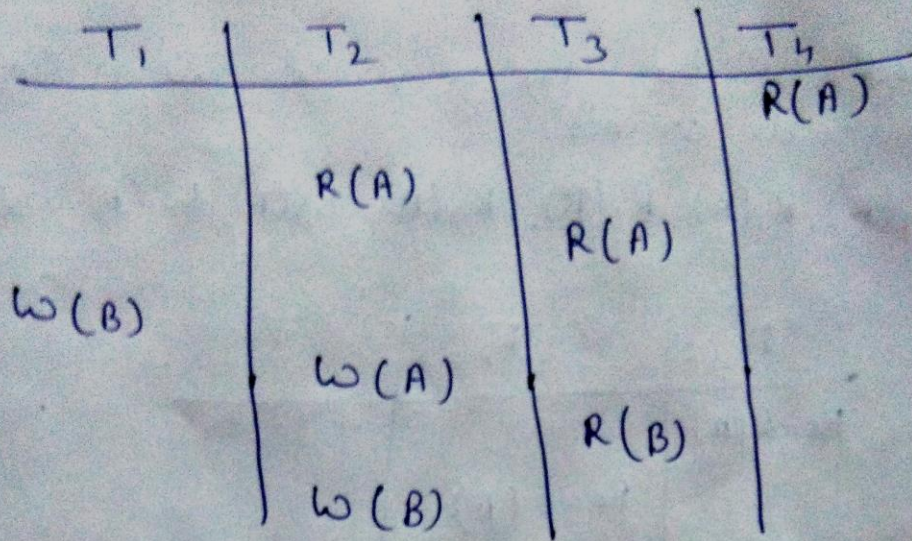
$R_2(A), W_1(A)$	$T_2 \rightarrow T_1$
$R_1(B), W_2(B)$	$T_1 \rightarrow T_2$
$R_3(B), W_2(B)$	$T_3 \rightarrow T_2$



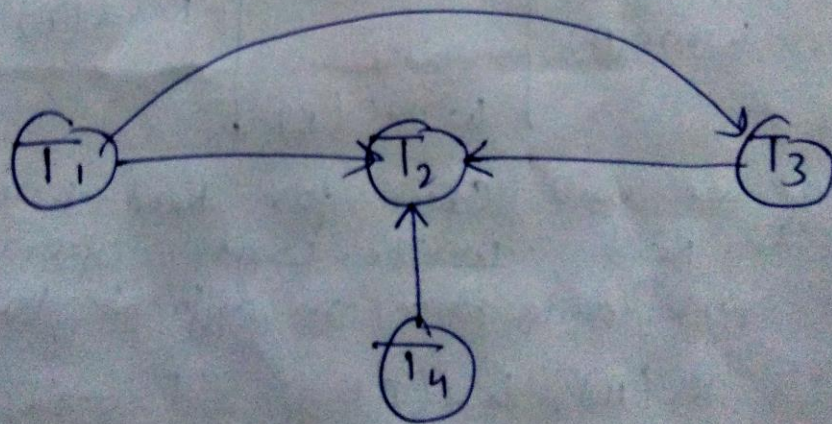
Precedence graph

Here, there is a cycle in precedence graph that means no, conflict serializable.

Q Check for Conflict serializable or not



Solⁿ let's draw the precedence graph.



No cycle occurs in the precedence graph i.e. Conflict serializable.