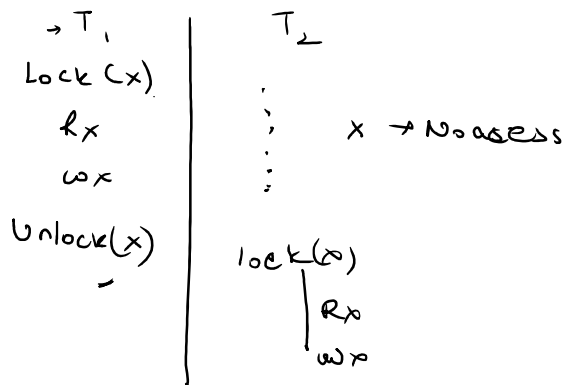


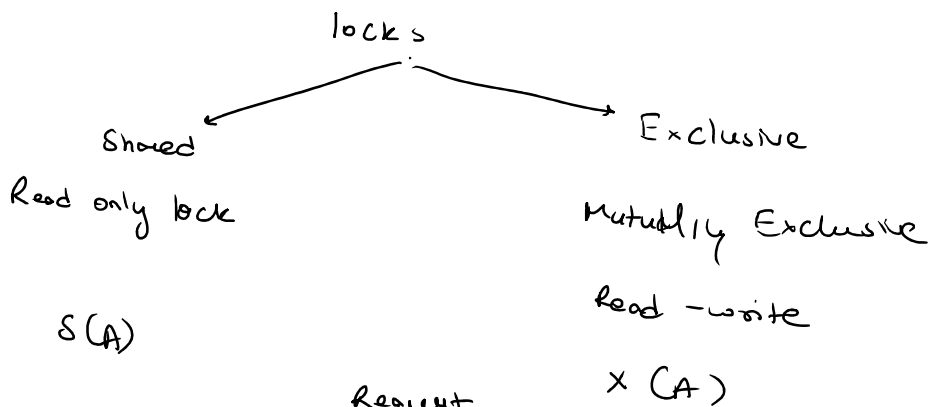
Algorithms :

- 1) lock based
- 2) Time stamp based
- 3) optimistic
- 4) Multiversion

lock based →

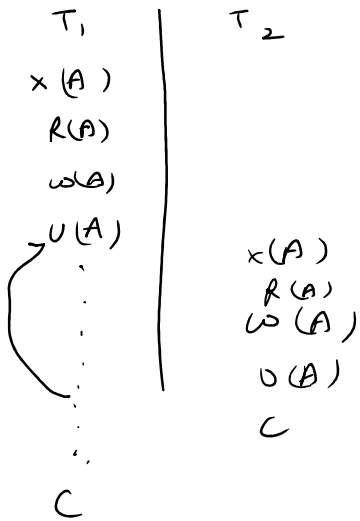


//



		Request	
		S	X
Grant	S	Yes	No
	X	No	No

lock compatibility matrix

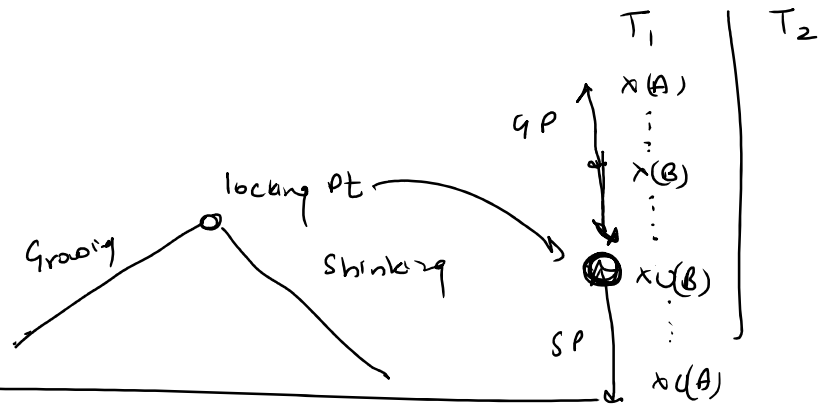


Disadvantages

- 1) May or may not be serializable
- 2) Deadlocks
- 3) Starvation
- 4) Irrecoverability

2 PL locks

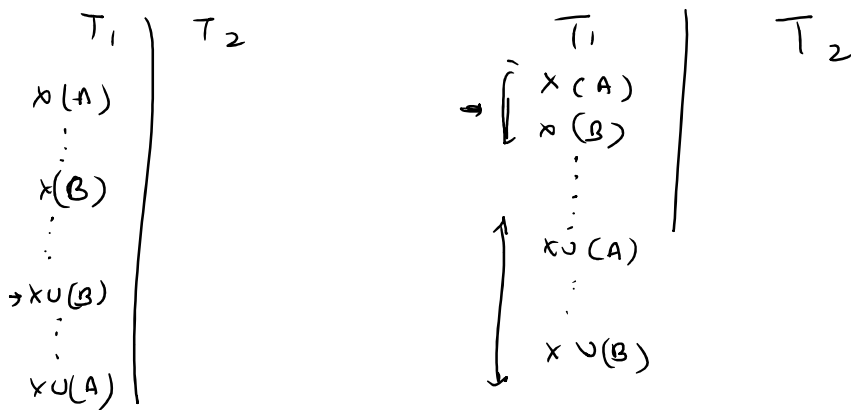
- Growing :
- Shrinking :



Conservative / static PL

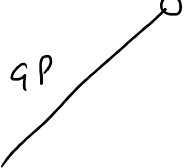
- No deadlock
- Serializability ✓

Shrinking phase



Rigorous PL : After commit release all locks

T_1	T_2
ω_p	R_x
	ω_p
	C

qP  No
shrinking
phase

Shrink PL

qP  Partial SP