1). $T_1 \longrightarrow T_2$ \Rightarrow ocyclic \Rightarrow conflict seriolizable $\cdot _{5|_{1}}(A) \ \gamma _{1}(A) \ s|_{1}(C) \ r_{1}(C) \ s|_{1}(B) \ u_{1}(A) \ s|_{2}(A) \ w_{2}(A) \ s|_{2}(B) \ \gamma _{2}(B) \ \gamma _{2}(B) \ \gamma _{1}(B) \ u_{2}(A) \ u_{3}(A) \ s|_{3}(B) \ w_{3}(A) \ w_{3}(B) \ \longrightarrow 2PL$

- 2) Update loss anomaly occurs when a transaction overwrite a values written by an other without taking into occurrent the value before
- · Jobse wk/r. (x) 12(x) w. (x) w2(x) view-socializable but suffer from update loss
- · true because 2PL ossue transactions to work in complete otomicity on values
- folse: $r_i(x) f_2(x) w_i(x) w_2(x) \rightarrow ACR$ but suffer from update loss

3) All 3 algorithms can always be applied.

· Cost : 600 + 600 5000 = 3000600 (vested loop)

· Cost: 600 + 5000 (1+ 600) = 25600 (Black Nested loop)

· Cost: 600 + 3 T(R) (Index Norted loop - 1 frame)