Strict Timestamp Ordering Algorithm

(Guarantees timestamp order of transaction execution, recoverability, and conflict serializability)

Each active database item will have the following two timestamps:

 $read_TS(X)$: the sequence number of the youngest transaction that read item X. write_TS(X): the sequence number of the youngest transaction that wrote item X.

Every transaction is assigned with a unique integer sequence number. $TS(T_9)$ is the timestamp of T_9 which is the sequence number of the transaction = 9

Consider two transactions T_5 and T_8 , where T_8 has started after T_5 . Hence, T_8 is younger to T_5 . Also, $TS(T_8) > TS(T_5)$.

T₉ requests write_item(X):

T₉ requests read_item(X):