Algorithm to determine conflict serializability

Input: Concument schedules

output: S is conflict serializable on not (conflict
equivalent to serial schedules

step): for each transaction Ti participating
in schedule s, create a node dabelled

Ti in the precedence graph (a directed
graph where the vertices are the transactions)

- step2: For each transaction in S, draw an edge Ti > Tj in the graph of one of the pollowing three conditions holds:
- (1) Ti sends executes read(a) before Ti executes unite (a)
- (ii) Ti executes write (Q) before Tj executes read (Q)
- (iii) Ti executes write (d) before Ti executes unite (d)

step 3: 9/4 the graph contains no cycle, then schedule S is conflict revisable.

or scrietizability order

NOTE: A serial schedule of the transactions can be obtained through topological senting of the (linear ordering of vertices of the graph such that for every directed edge Ti-JJ, vertex to comes before vertex to in the ordering) in the serial schedule s' equivalent to S.