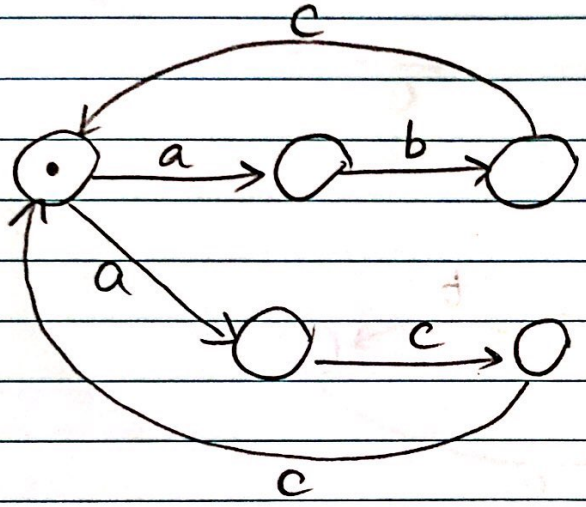
#7

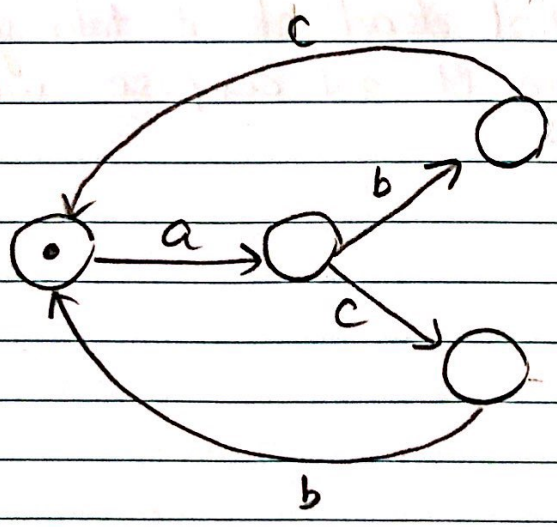
$P1 = (a \to b \to c \to P1$
$\quad | a \to c \to b \to P1)$
$P2 = (a \to (b \to c \to P2 \ | c \to b \to P2))$
$Q = (b \to c \to Q)$

* Traces(P1) = Traces(P2)

P1



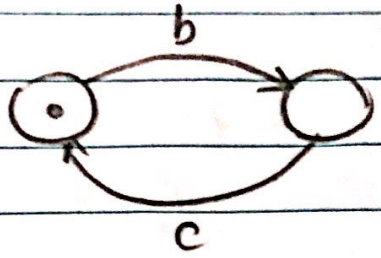
P2



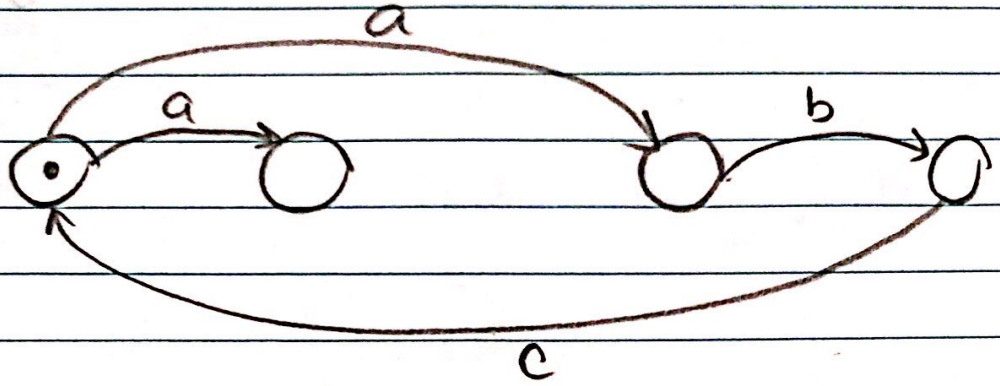
LTS(P1) and LTS(P2) are isomorphic, so Traces(P1) = Trace(P2)

From both processes, we need to perform action a. Then, we can either perform b or c. After that, we will perform c or b accordingly

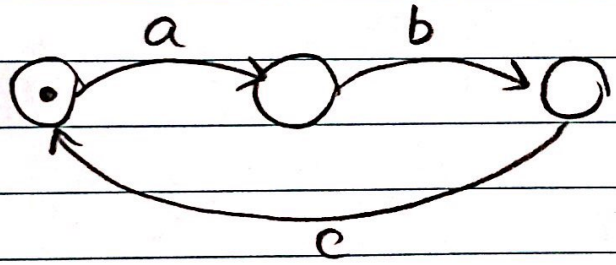
Q



P1 Q



P2 Q



P1 Q has potential deadlock if taking the trace $a \rightarrow c \rightarrow b \rightarrow P1$ in P1 and compose with Q