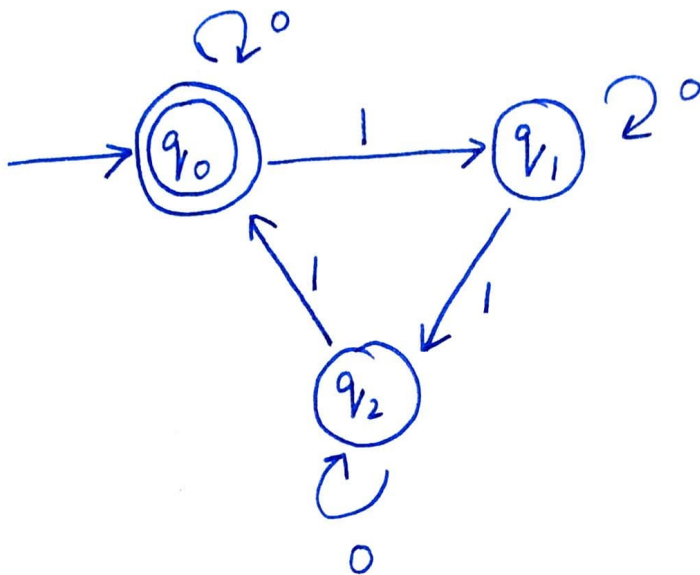


Q1) Transition Diagram :



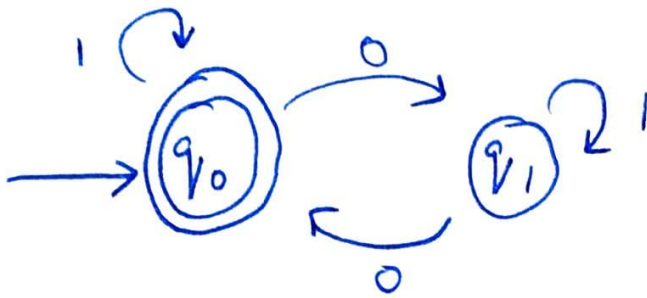
Transition Table :

States	0	1
$q_0$	$\{q_0\}$	$\{q_1\}$
$q_1$	$\{q_1\}$	$\{q_2\}$
$q_2$	$\{q_2\}$	$\{q_0\}$

$q_0 \rightarrow$  starting and final state

IIT2019210 - Aditya Aggarwal

Q2) Transition Diagram:



Transition Table:

States	0	1
$q_0$	$\{q_1\}$	$\{q_0\}$
$q_1$	$\{q_0\}$	$\{q_1\}$

$q_0 \rightarrow$  Starting and Final State