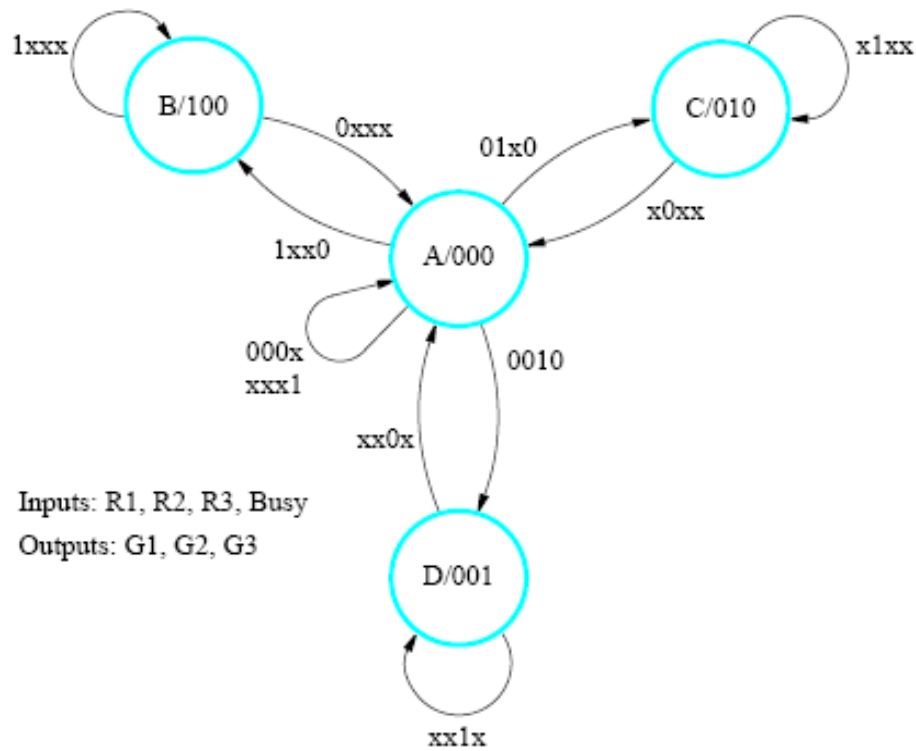
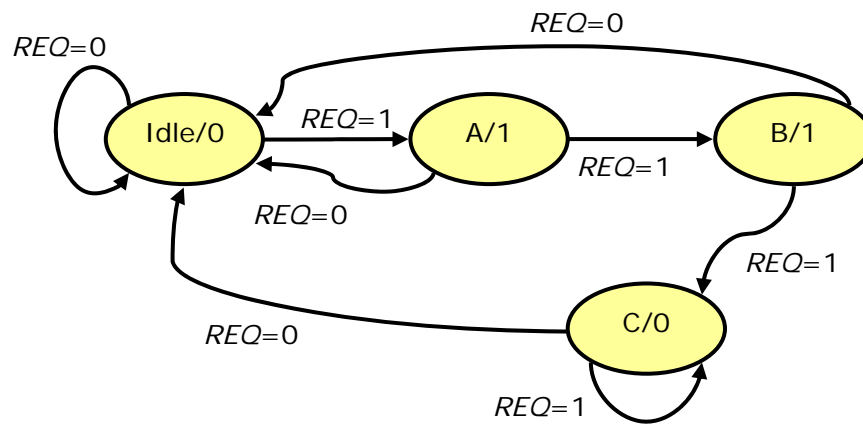


## Solution 5

1.

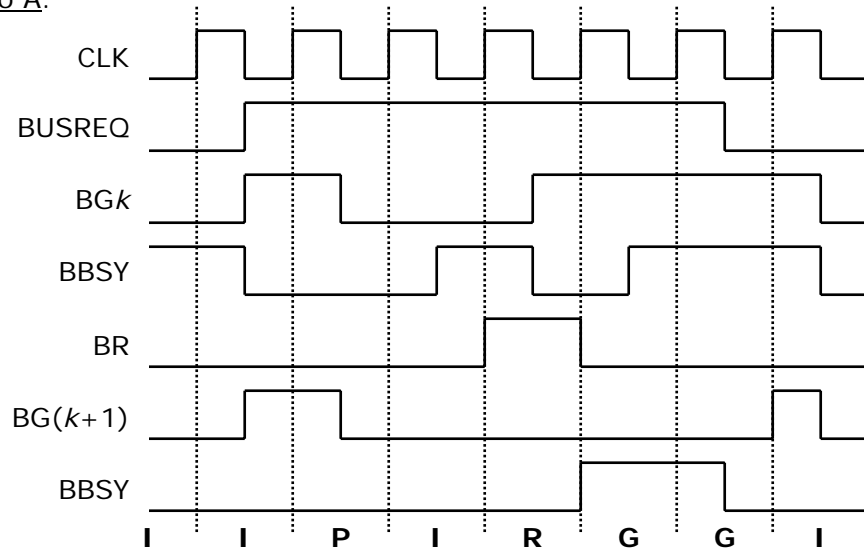


2. Four states: Idle ( $WAIT=0$ ), A ( $WAIT=1$ ), B ( $WAIT=1$ ), C ( $WAIT=0$ ).

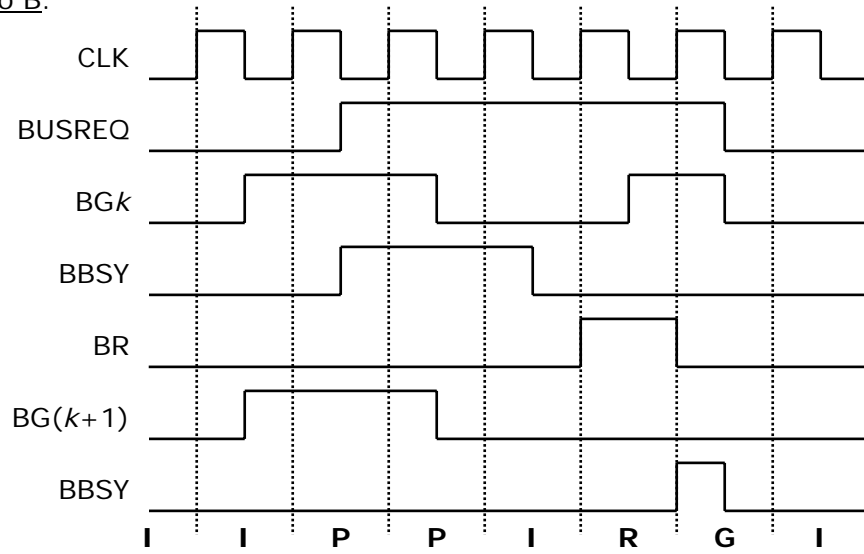


3.

Scenario A:



Scenario B:



4.

