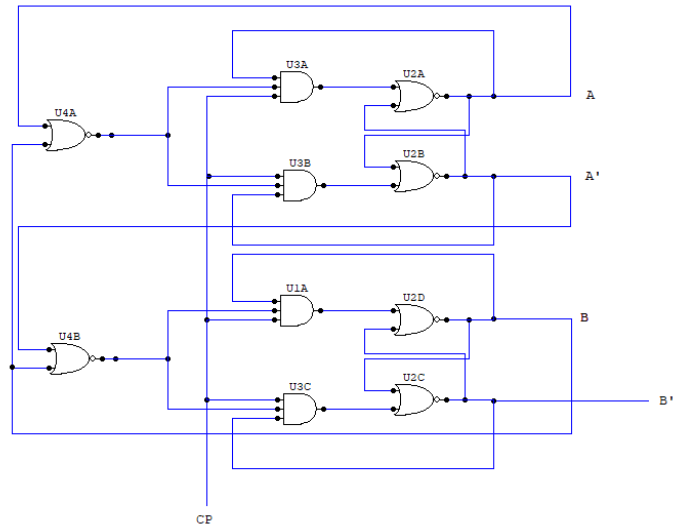


## Homework #6 Computer Architecture

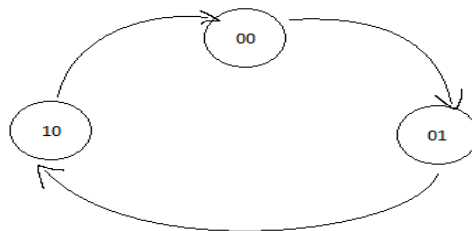


$$T2 = A'B$$

$$T1 = AB$$

Present State	T	Next State
0	0	0
0	1	1
1	0	1
1	1	0

A	B	T1	T2	Q1	Q2
0	0	0	1	0	1
0	1	1	1	1	0
1	0	1	0	0	0



3 States

This circuit behaves as a counter and counts from 0 to 2.  $\Rightarrow 0, 1, 2, 0, 1, 2, 0, 1, 2, \dots$