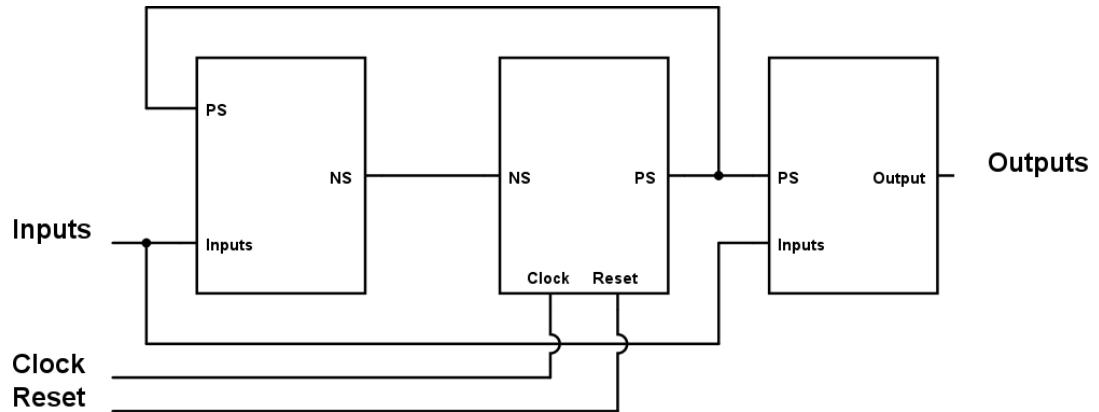


Example Sequential Problems

Sequential Circuits

State Machine



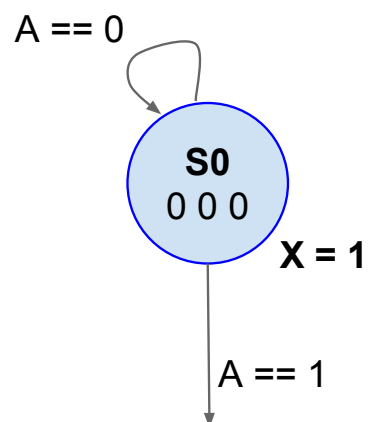
Input Logic

Inputs	Present State	Next State
0	0	1
1	0	0
...

Inputs	Present State	Outputs
0	0	0
1	0	1
...

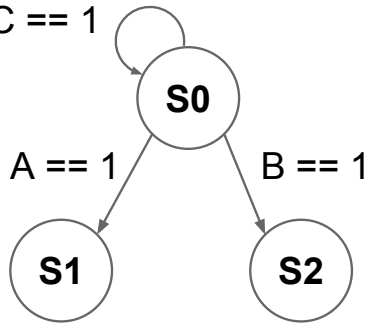
State Machine

State Machine

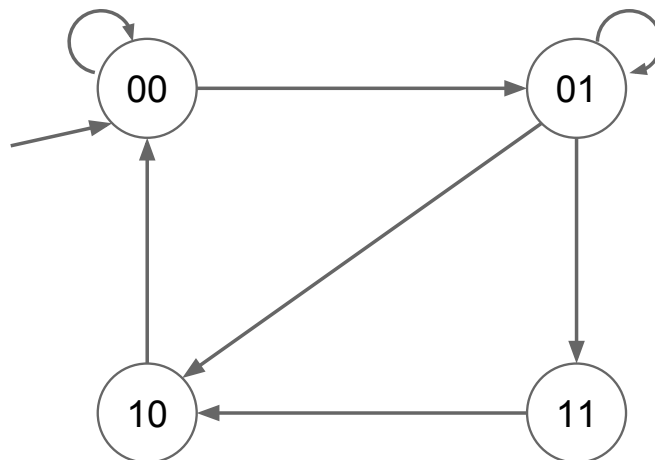


State Diagram

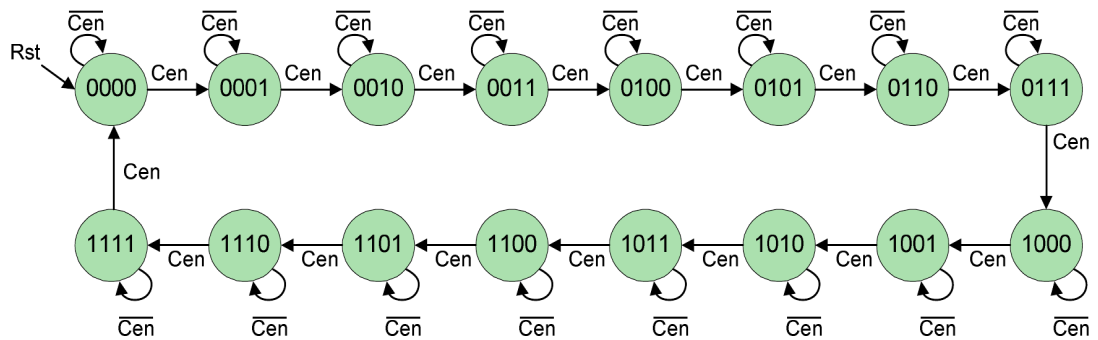
A == 0 and
C == 1



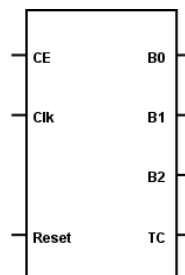
Vending Machine



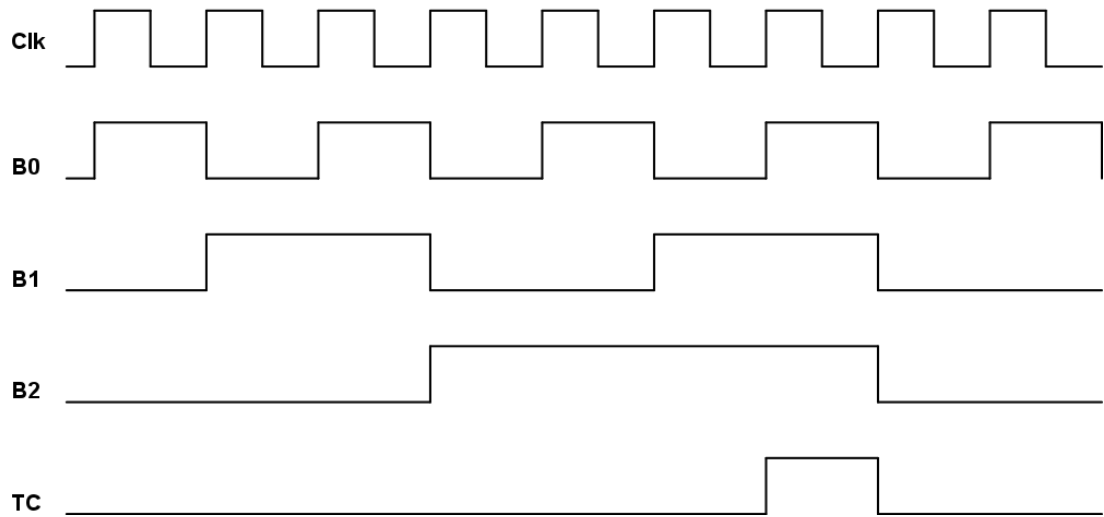
Binary Counters



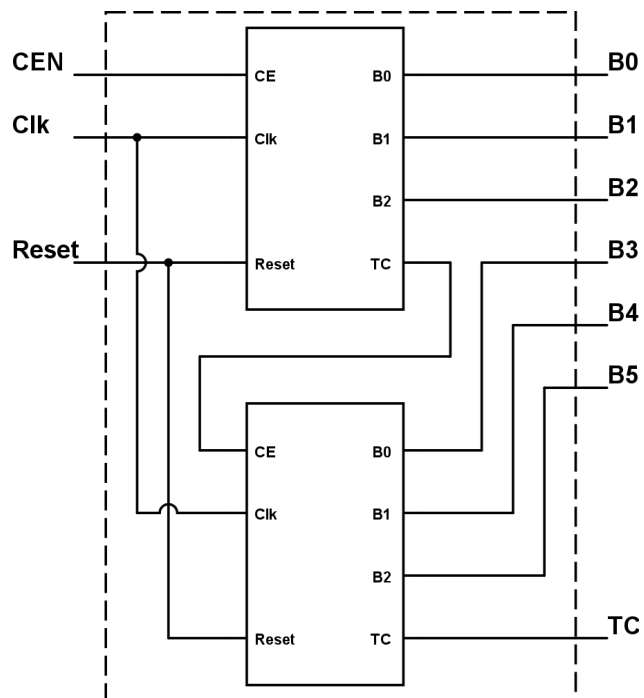
Binary Counters



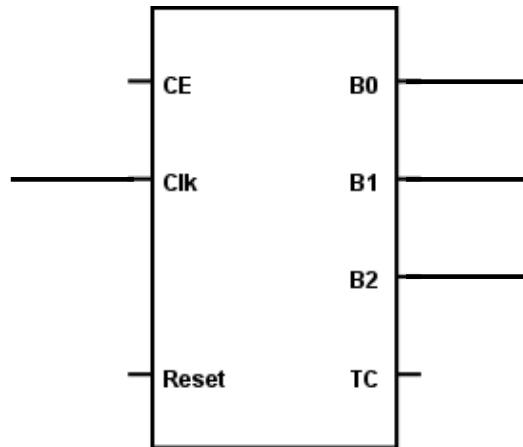
Binary Counters



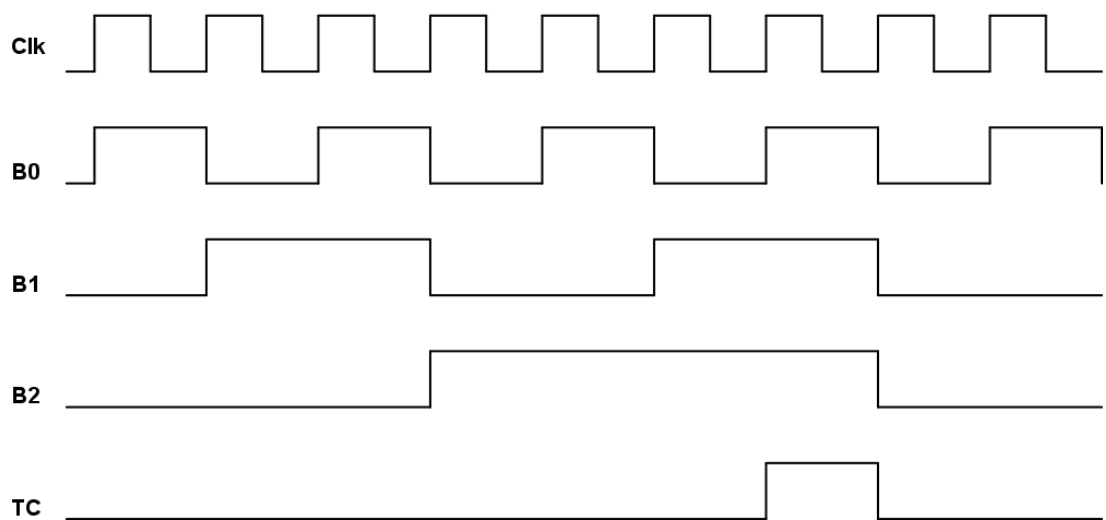
Combining Binary Counters



Clock Dividers



Binary Counters



Clock Dividers

