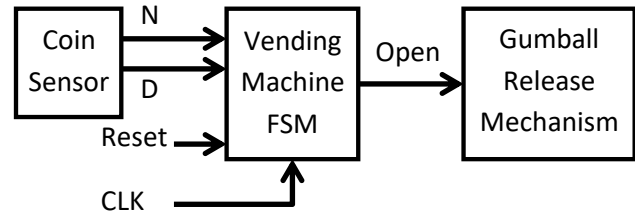


Vending Machine FSM

❖ Description/behavior:

- Single coin slot for dimes and nickels
- Releases gumball after ≥ 10 cents deposited
- Gives no change



State Diagram

Truth tables and logic minimization

PS	N	D	NS	Open
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

PS,N

D \ PS,N	00	01	11	10
0				
1				

PS,N

D \ PS,N	00	01	11	10
0				
1				

Boolean equations

NS =

Open =

Circuit Implementation

Open 

