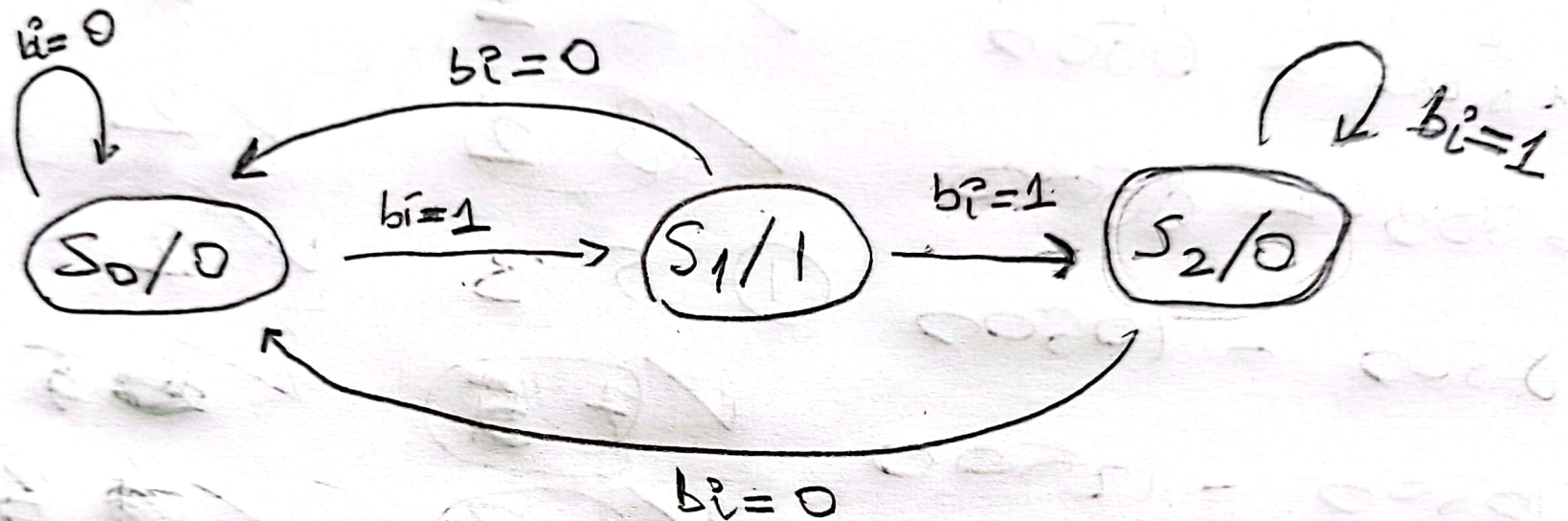


State Diagram of Button Synchronizer.



State	A	B
S_0	0	0
S_1	0	1
S_2	1	0

* Output



* In any step pushing reset results in going initial state (S_0)

* Also in any step, N and D = 1 at the same time, stay at the same state.

State $\leftarrow ND=1$

Vending Machine State Diagram

