

LAB 1

7.1

Sensor 1 (high)	Sensor 2 (low)	Sensor 3	Sensor 4	Error
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

	S1'	S1'	S1	S1	
S3'	0	0	1	1	S4'
S3'	0	<i>1</i>	1	1	S4
S3	0	<i>1</i>	1	1	S4
S3	0	<i>1</i>	1	1	S4'
	S2'	S2	S2	S2'	

Error Detected = $S1 + (S2 * S3) + (S2 * S4)$

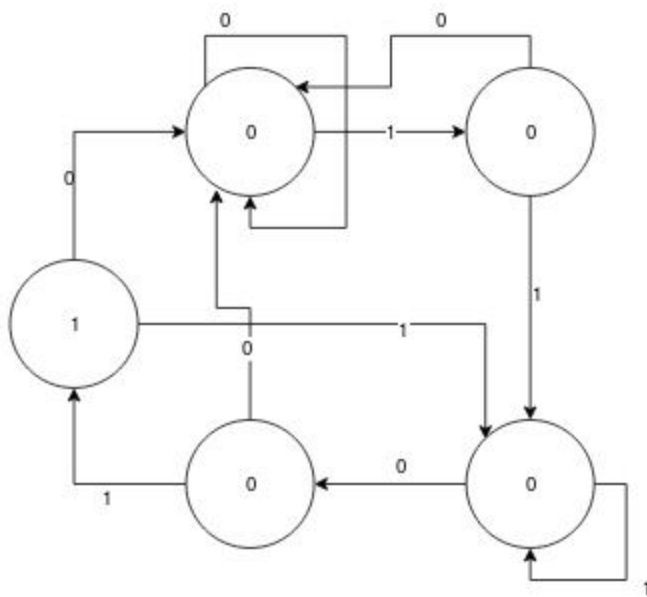
S1: orange highlights

S2 * S3: italics text

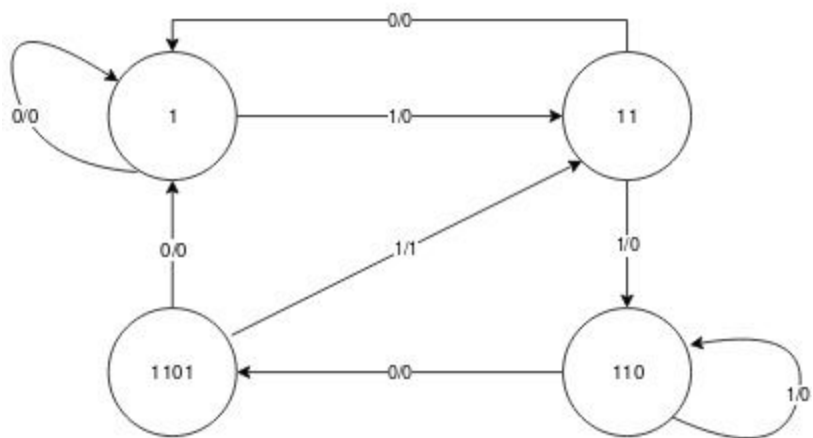
S2 * S4: bold text

7.2

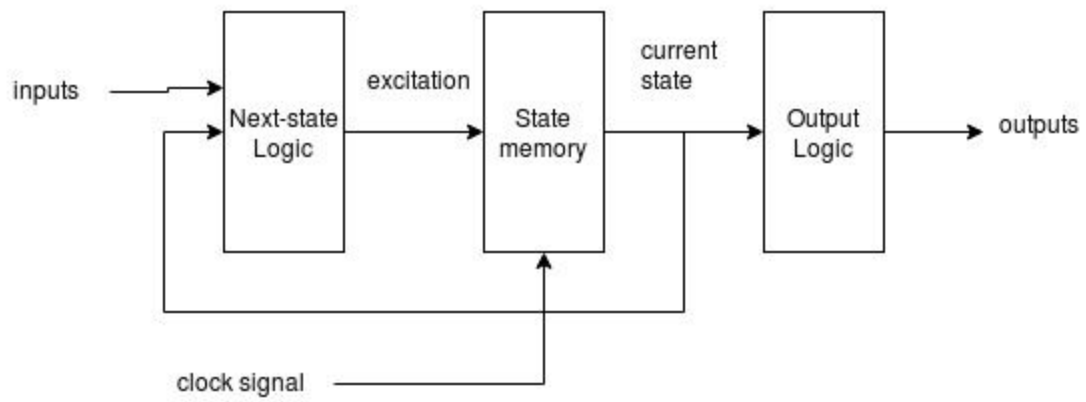
Moore



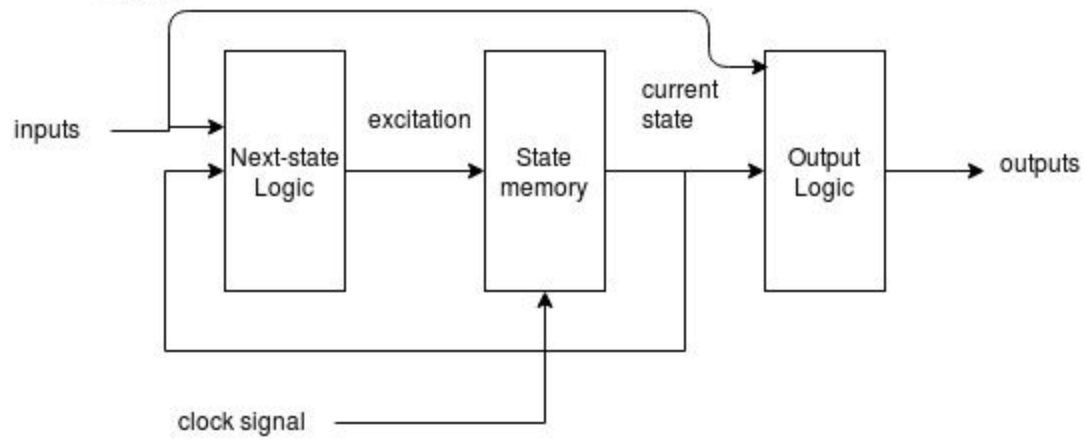
Mealey



MOORE

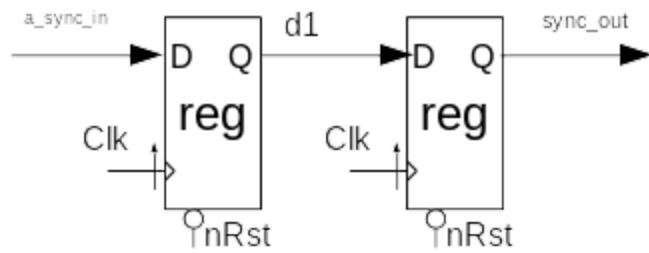


MEALY



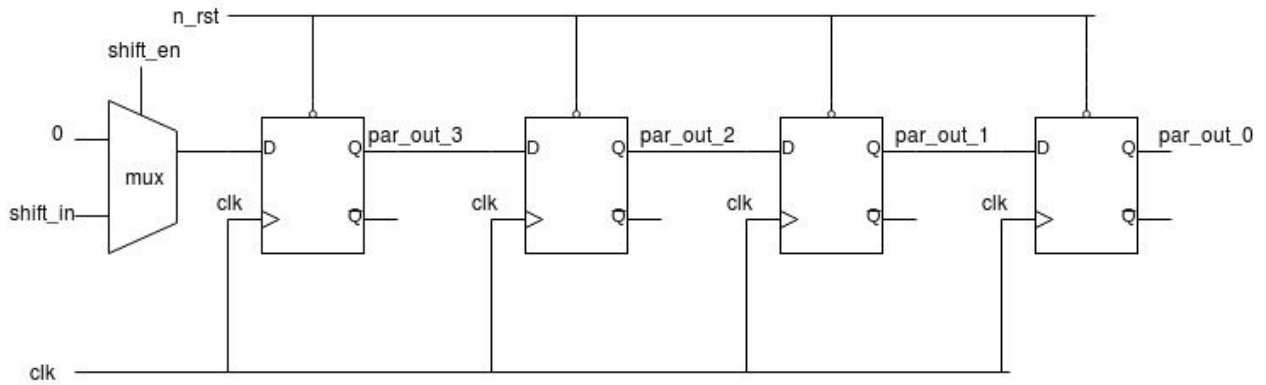
7.3.1

synchronizer

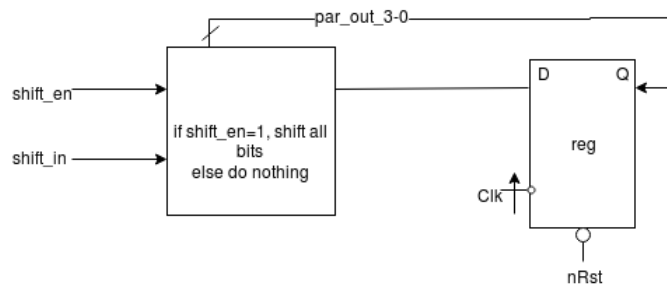


7.3.2

Schematic

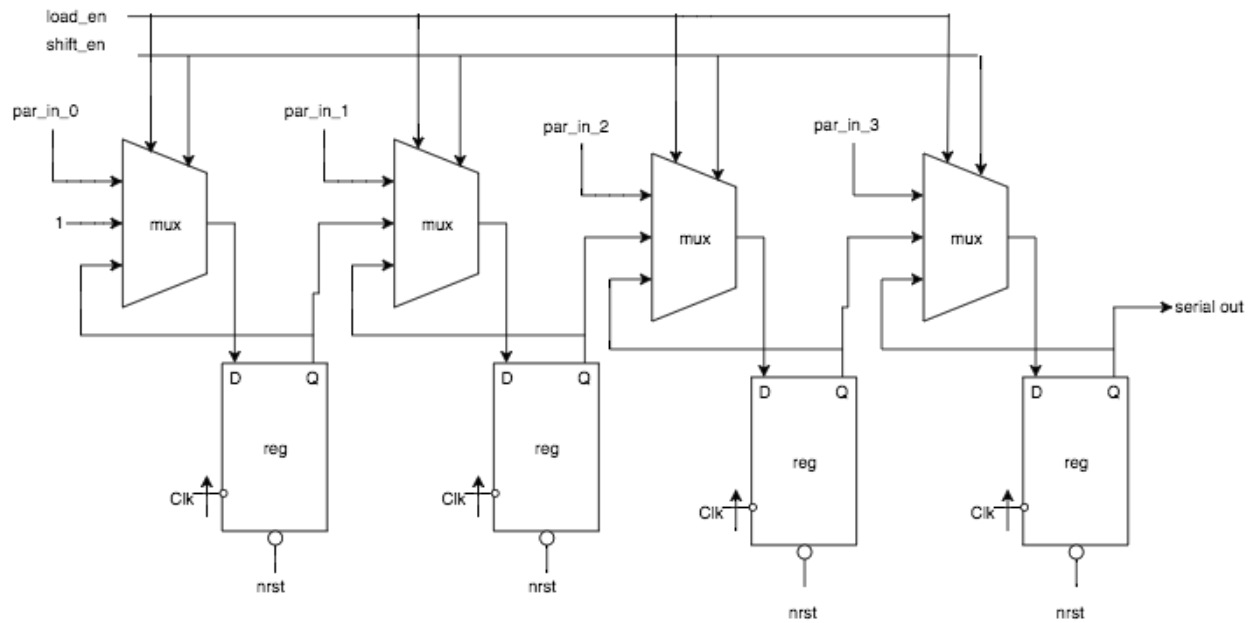


RTL



7.3.3

schematic



RTL

