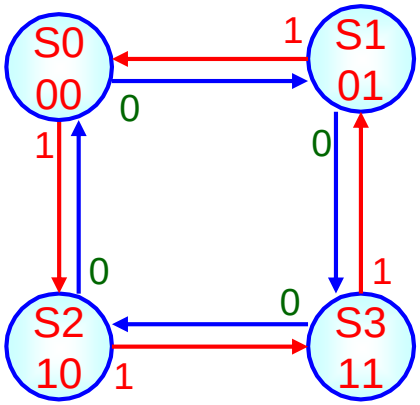
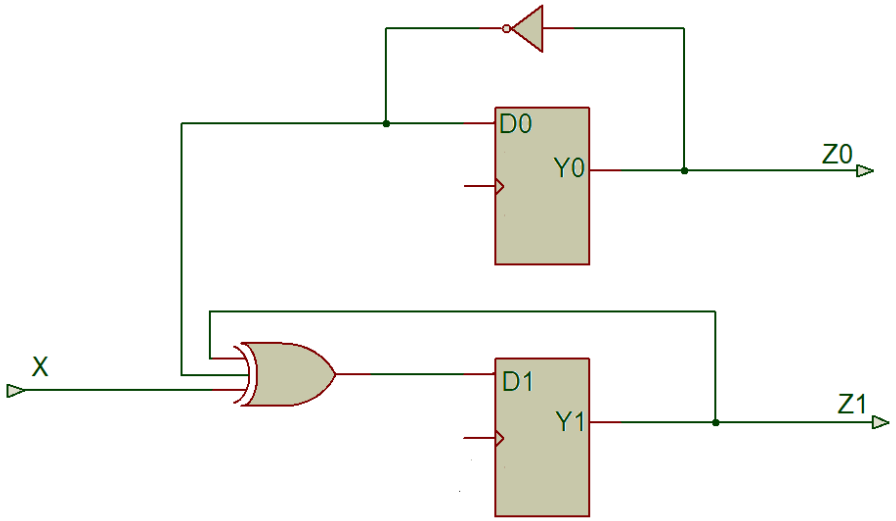
Punto 1: FSM Moore/Tabla de estados/diagrama lógico



X	Y1	Y0	D1	D0	Z1	Z0
0	0	0	0	1	0	0
0	0	1	1	0	0	1
0	1	0	1	1	1	0
0	1	1	0	0	1	1
1	0	0	1	1	0	0
1	0	1	0	0	0	1
1	1	0	0	1	1	0
1	1	1	1	0	1	1



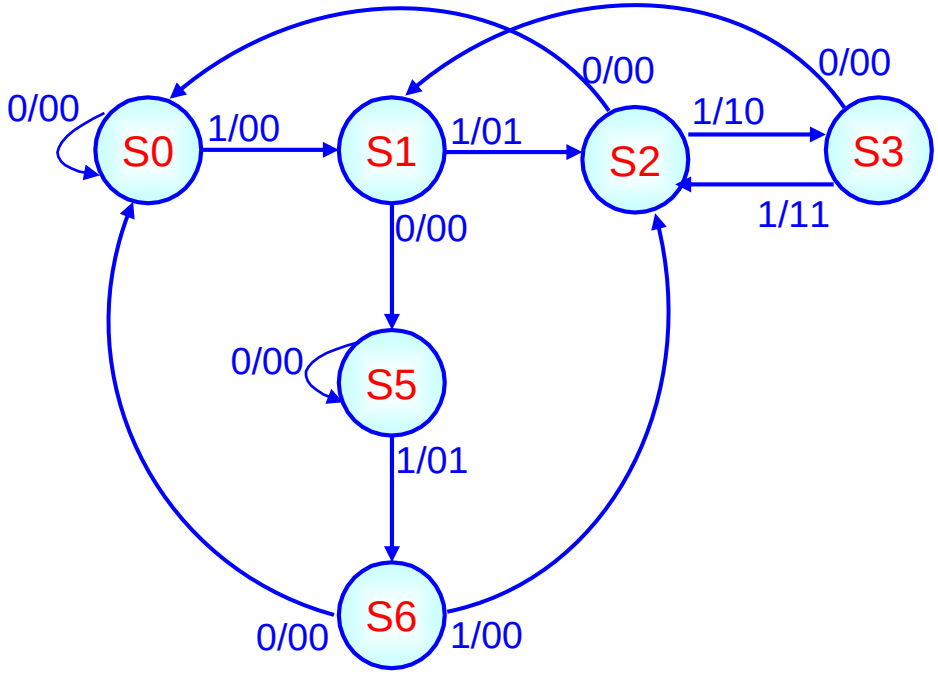
D0= Y0'

D1= X XOR Y0 XOR Y1

Z0= Y0

Z1= Y1

Punto 2: FSM Mealy



Nada → 00
Cuenta → 01
Detecta → 10
Ambas→ 11

Punto 2: Tabla de estados

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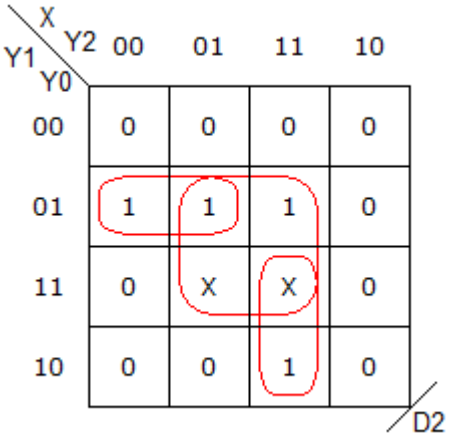
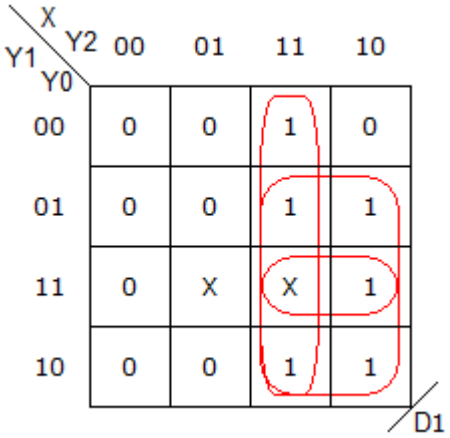
X	Y2	Y1	Y0	D2	D1	D0	Z1	Z0
0	0	0	0	0	0	0	0	0
0	0	0	1	1	0	1	0	0
0	0	1	0	0	0	0	0	0
0	0	1	1	0	0	1	0	0
0	1	0	1	1	0	1	0	0
0	1	1	0	0	0	0	0	0
1	0	0	0	0	0	1	0	0
1	0	0	1	0	1	0	0	1
1	0	1	0	0	1	1	1	0
1	0	1	1	0	1	0	1	1
1	1	0	1	1	1	0	0	1
1	1	1	0	0	1	0	0	0

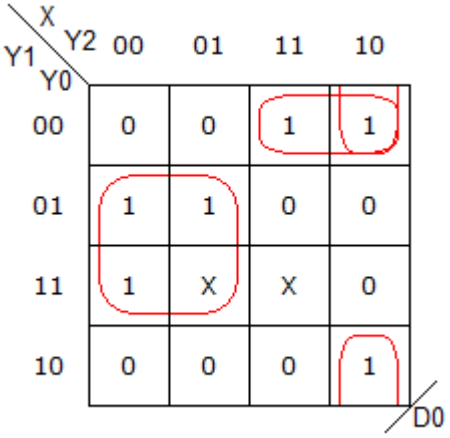
Punto 2: Mapas de Karnaugh



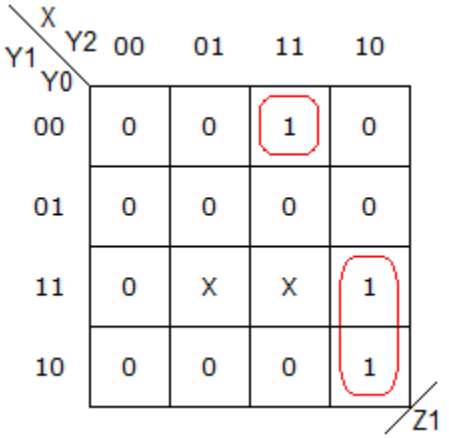
D2= Y2Y0+XY2Y1+X'Y1'Y0



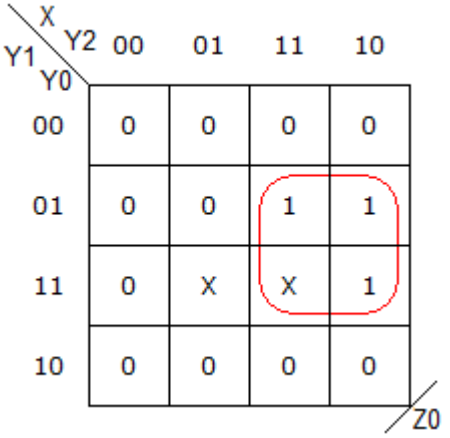
D1= XY2+XY0+XY1



D0= X'Y0+XY1'Y0'+XY2'Y0'



Z1= XY2'Y1+XY2Y1'Y0'



Z0=XY0

Punto 2: Diagrama Lógico

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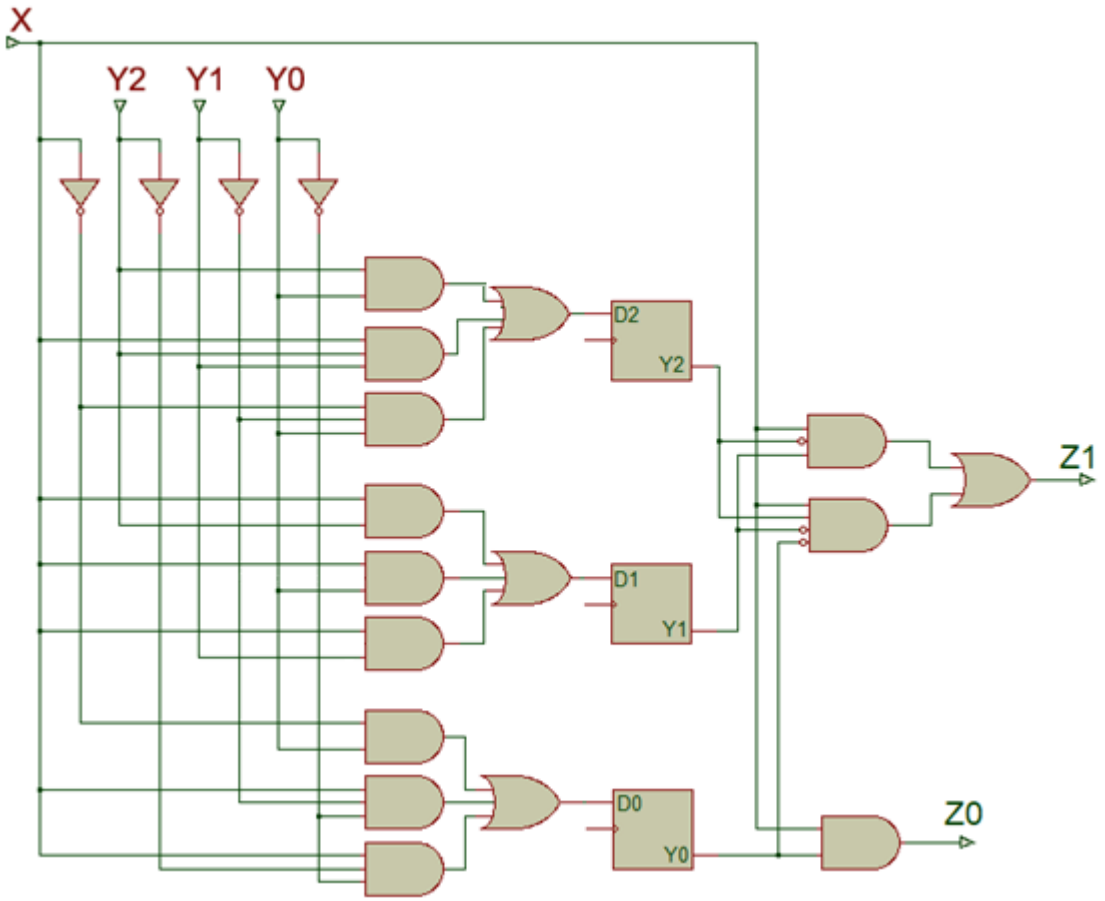
D2= Y2Y0+XY2Y1+X'Y1'Y0

D1= XY2+XY0+XY1

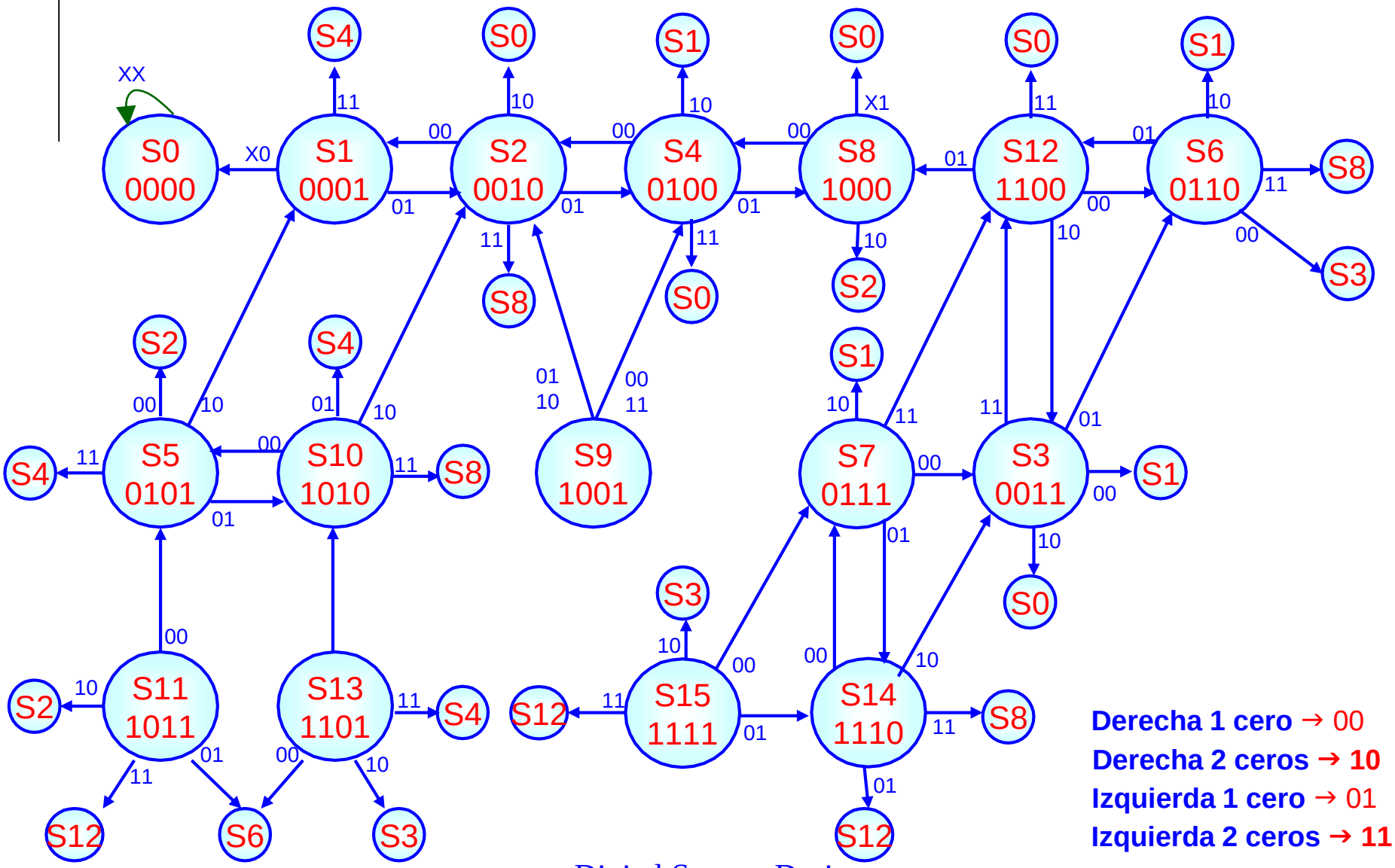
D0= X'Y0+XY1'Y0'+XY2'Y0'

Z1= XY2'Y1+XY2Y1'Y0'

Z0=XY0



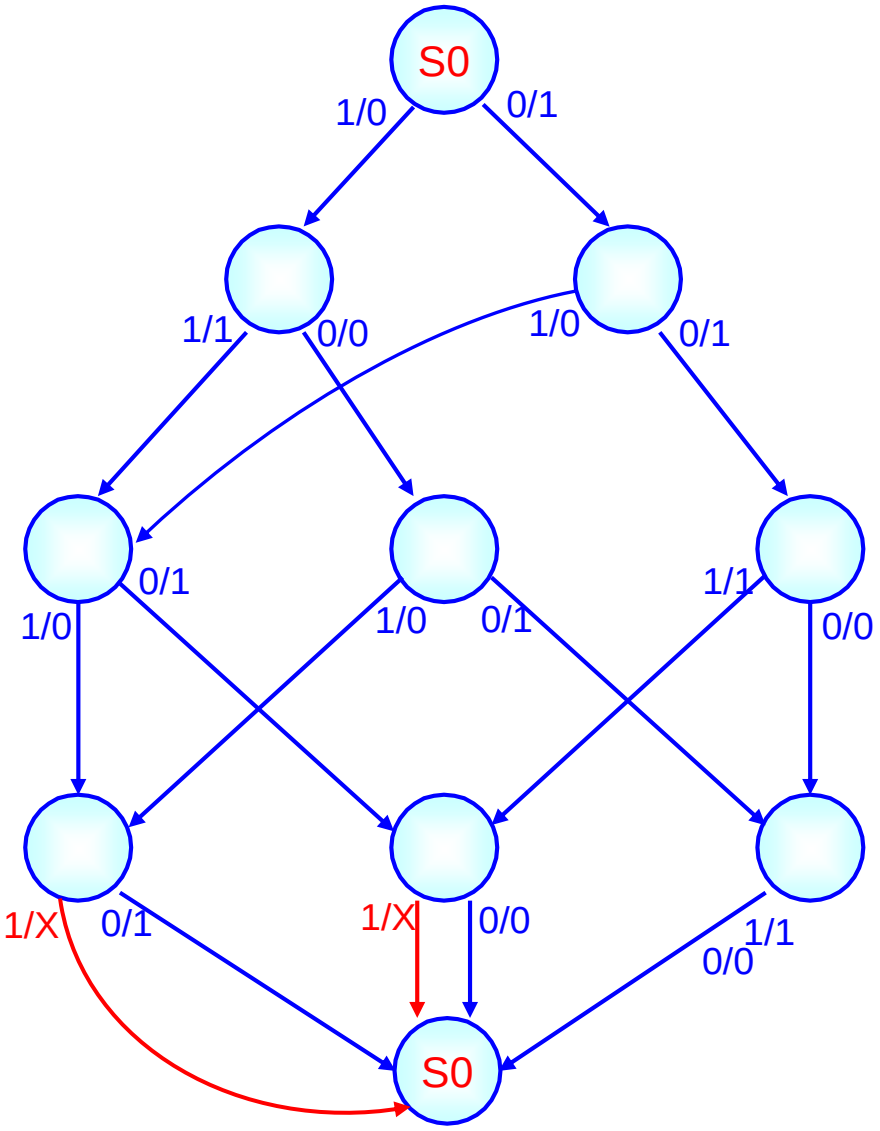
Punto 3: FSM Moore



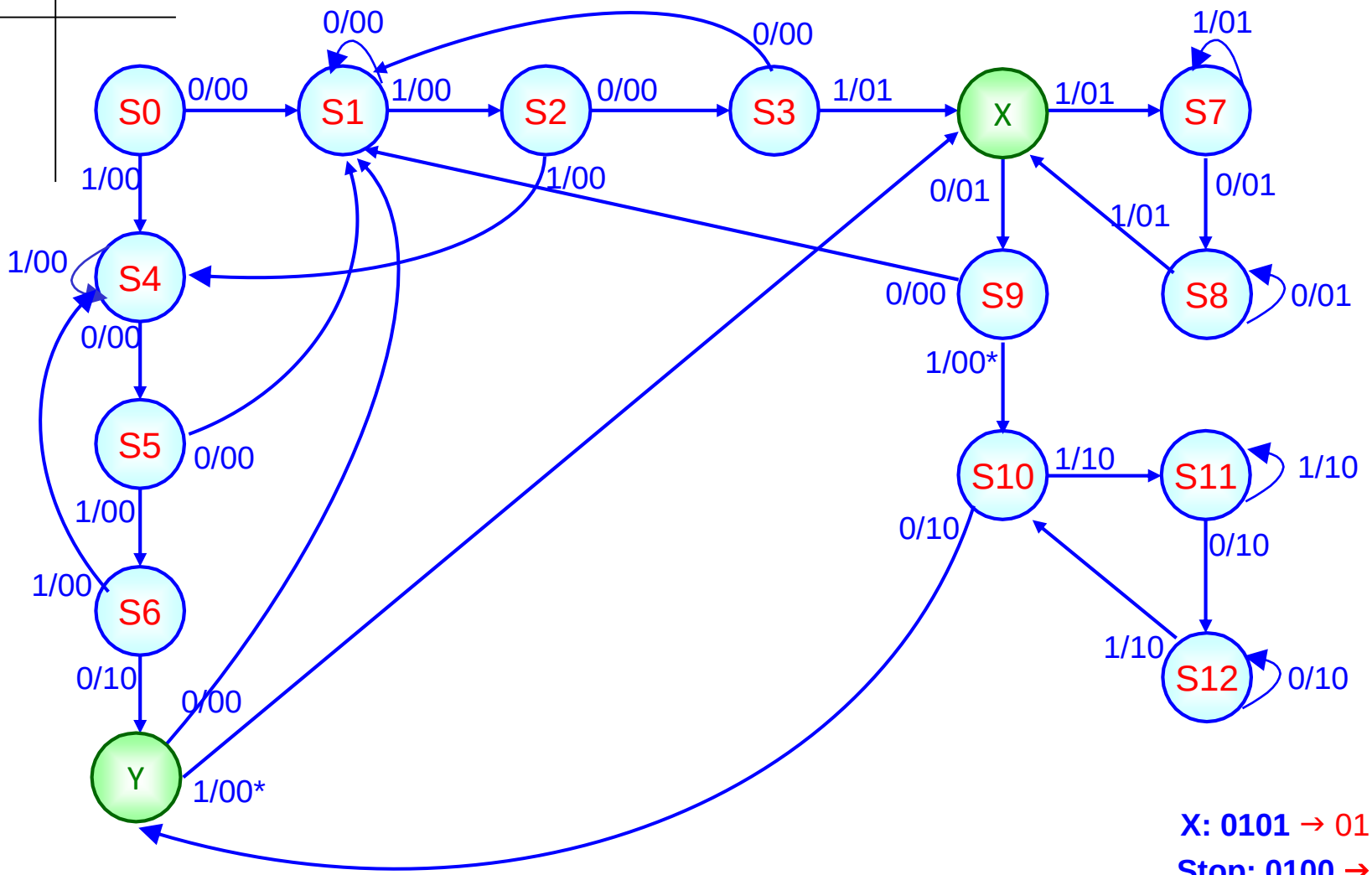
Derecha 1 cero → 00
Derecha 2 ceros → **10**
Izquierda 1 cero → 01
Izquierda 2 ceros → **11**

Punto 4: FSM Mealy

BCD	XS-3
0000	0011
0001	0100
0010	0101
0011	0110
0100	0111
0101	1000
0110	1001
0111	1010
1000	1011
1001	1100
1010	X101
1011	X110
1100	X111
1101	X000
1110	X001
1111	X010



Punto 5: FSM Mealy



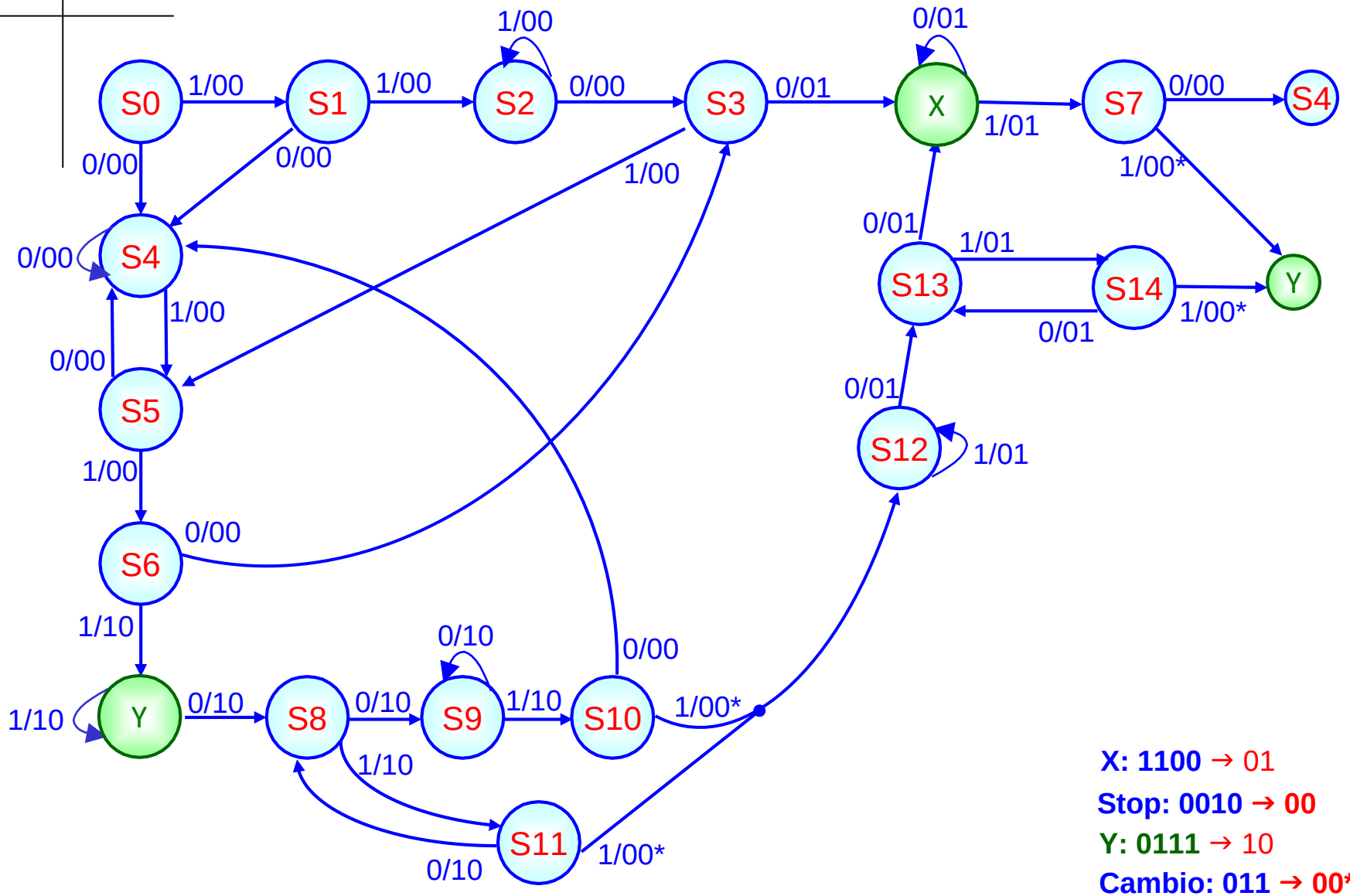
X: 0101 → 01

Stop: 0100 → 00

Y: 1010 → 10

Cambio: 0101 → 00*

Punto 6: FSM Mealy



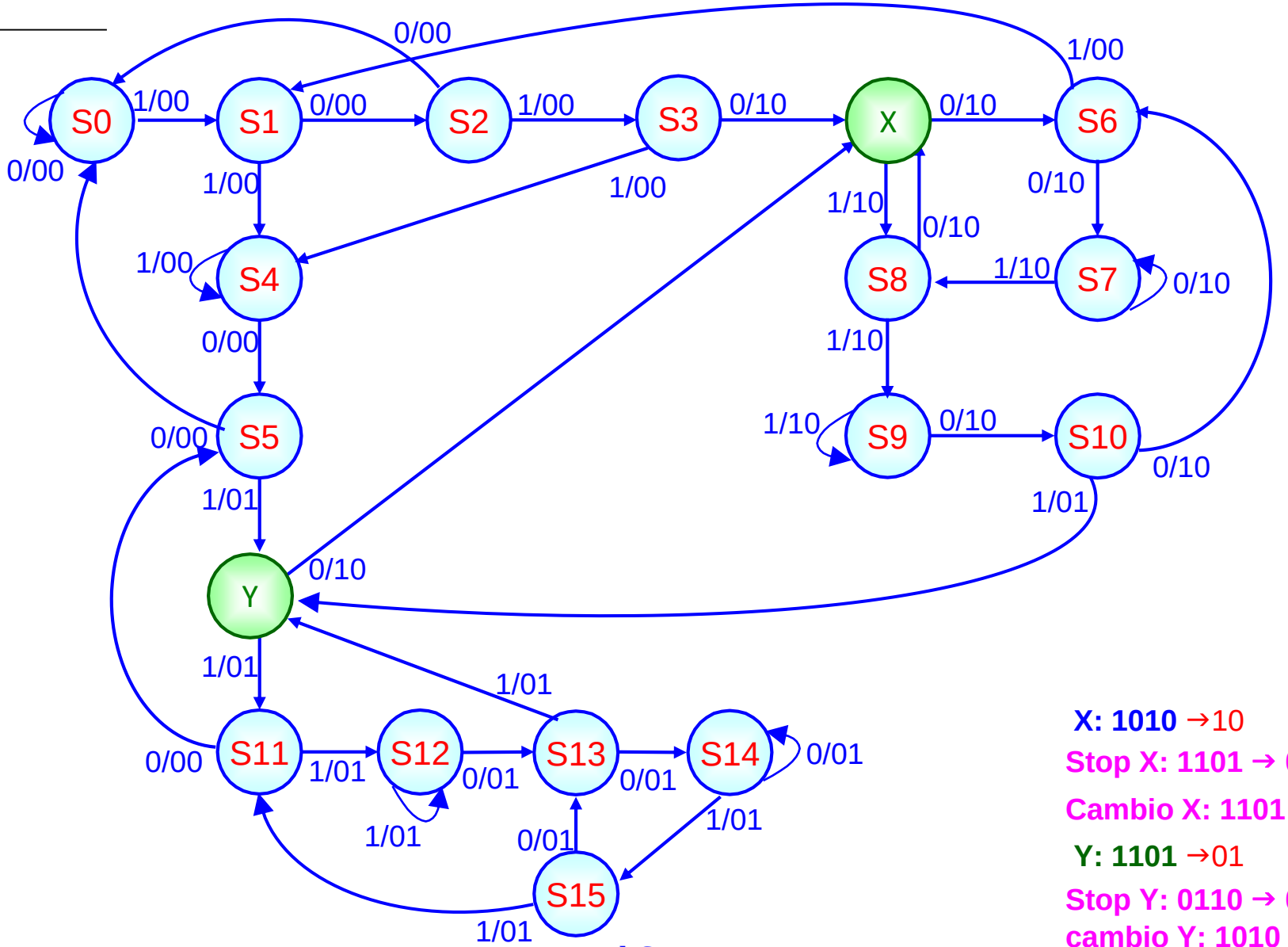
X: 1100 → 01

Stop: 0010 → **00**

Y: 0111 → 10

Cambio: 011 → **00***

Punto 7: FSM Mealy



X: 1010 →10

Stop X: 1101 → 00

Cambio X: 1101 → 01

Y: 1101 →01

Stop Y: 0110 → 00

cambio Y: 1010 → 10