

Problema 1

Problema 1.

CF/BT

SOLUCIÓN

	00	01	11	10	00	01	11	10
q ₀	q ₁				1X			
q ₁	q ₂	q ₃		00	0X			01
q ₂	q ₀	q ₂		0X	0X			
q ₃	q ₃	q ₂		q ₃	01	0X		01

→ Es mínimo

q ₁	X		
q ₂	X	X	
q ₃	X	X	X
q ₀			

CF

q ₁ q ₀	00	01	11	10	00	01	11	10
00	01				1X			
01	01	11		10	00	0X		01
11	00	11			0X	0X		
10	10	11		10	01	0X		01

D₁:

q ₁ q ₀	0	X	X	X
0	1	X	1	
0	1	X	X	
1	1	X	1	

$D_1 = F + C + q_1 \bar{q}_0$

D₀:

q ₁ q ₀	X	X	X	X
1	1	X	0	
0	1	1	X	
0		X	0	

$D_0 = F + \bar{q}_1 \bar{C}$

B:

q ₁ q ₀	1	X	X	X
0	0	X	0	
0	0	X	X	
0	0	X	0	

$B = \bar{q}_1 \bar{q}_0$

T:

q ₁ q ₀	X	X	X	X
0	X	X	1	
X	X	X	X	
1	X	X	X	

$T = C + q_1$

C = q₁ q₀

Problema 2

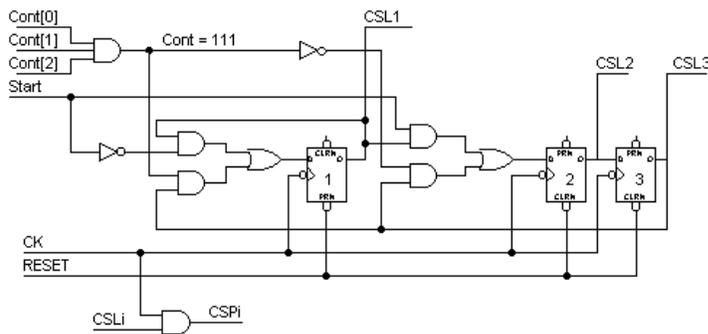
MODULE: EXAMEN
 INPUTS: Test[8]
 OUTPUTS: Dout
 MEMORY: Test_uno[8], Test_cero[8], Cont[3]

```

Dout = !Start
Test = 1
Test_uno ← Resp
Cont ← 0
→ (Start, !Start)/(2,1)
Test = 0
Test_cero ← Resp.(Cont = 0) + (Test_cero[6..1],0) . (Cont <> 0)
  Dout = Test_uno[7]
Test_uno ← (Test_uno[6..1],0)
Cont ← Inc(Cont)
Dout = Test_cero[7]
→(Cont=111,Cont<>111)/(1,2)

END SEQUENCE
CONTROLRESET(1)
END
  
```

BLOQUE DE CONTROL



BLOQUE DE DATOS

