

Exercicio Sequencia Aleatoria 4 bits

N	Q3	Q2	Q1	Q0	D3	D2	D1
0	0	0	0	0	0	0	1
1	0	0	0	1	0	1	0
2	0	0	1	0	0	1	1
3	0	0	1	1	0	0	0
4	0	1	0	0	0	0	1
5	0	1	0	1	1	0	0
6	0	1	1	0	1	0	1
7	0	1	1	1	0	0	0
8	1	0	0	0	0	0	0
9	1	0	0	1	0	1	0
10	1	0	1	0	0	0	0
11	1	0	1	1	0	0	0
12	1	1	0	0	0	0	0
13	1	1	0	1	0	0	0
14	1	1	1	0	0	0	0
15	1	1	1	1	0	0	0

D3

$$D3 \rightarrow D3 = Q3'Q2Q1'Q0 + Q3'Q2Q1Q0'$$

Q3Q2/Q1Q0	0 0	0 1	1 1	1 0
0 0				
0 1		1		1
1 1				
1 0				

$$D2 \rightarrow D2 = Q2'Q1'Q0 + Q3'Q2'Q1Q0'$$

Q3Q2/Q1Q0	0 0	0 1	1 1	1 0
0 0		1		1
0 1				
1 1				
1 0		1		

$$D1 \rightarrow D1 = Q3'Q0'$$

Q3Q2/Q1Q0	0 0	0 1	1 1	1 0
0 0	1			1
0 1	1			1
1 1				
1 0				

$$D0 \rightarrow D0 = Q3'Q2'Q1' + Q3'Q2'Q0 + Q3'Q1'Q0$$

Q3Q2/Q1Q0	0 0	0 1	1 1	1 0
0 0	1	1	1	

01		1		
11				
10				