

1

 $00 \rightarrow 01 \rightarrow 10 \rightarrow 11 \rightarrow 10 \rightarrow 01 \rightarrow 00$
 $000 \rightarrow 001 \rightarrow 010 \rightarrow 011 \rightarrow 111 \rightarrow 110 \rightarrow 101 \rightarrow 100$

Q2	Q1	Q0	D2	D1	D0
0	0	0	0	0	1
0	0	1	0	1	0
0	1	0	0	1	1
0	1	1	1	1	1
1	0	0	0	0	0
1	0	1	1	0	0
1	1	0	1	0	1
1	1	1	1	1	0

Q1Q0

D2	00	01	11	10
Q2 0	0	0	1	0
Q2 1	0	1	1	1

$$D2 = Q1Q0 + Q2Q0 + Q2 \cdot Q1$$

D1

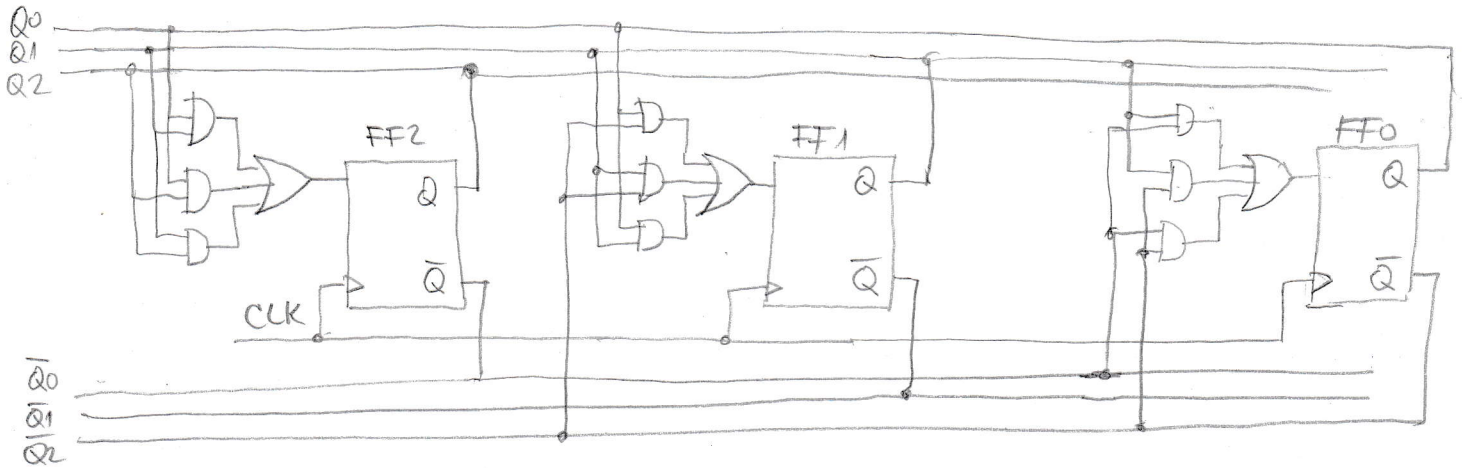
0	1	0	1
0	1	1	1
0	0	1	0

$$D1 = \overline{Q2} Q0 + \overline{Q2} Q1 + Q1 Q0$$

D0

1	0	1	1
1	0	1	1
0	0	0	1

$$D0 = \overline{Q2} \cdot \overline{Q0} + \overline{Q2} Q1 + Q1 \overline{Q0}$$



2

