



Input	B				Ns				Serdn	D ₂	D ₁	D ₀
	Q ₂	Q ₁	Q ₀	Q ₂ Q ₁ Q ₀	Q ₂	Q ₁	Q ₀	Q ₂ Q ₁ Q ₀				
A	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	1	0	0	0	0	1
B	0	0	0	1	0	1	0	0	0	0	1	0
	1	0	0	1	0	0	0	0	0	0	0	0
C	0	0	1	0	0	0	0	0	0	0	0	0
	1	0	1	0	0	1	1	0	0	1	1	1
D	0	0	1	1	1	0	0	0	0	1	0	0
	1	0	1	1	0	0	0	0	0	0	0	0
E	0	1	0	0	0	0	0	0	0	0	0	0
	1	1	0	0	0	0	0	0	1	0	0	0

D_2

0	0	x	0
0	x	x	1
0	x	x	0
0	0	x	0

Q_2

D_1

0	0	x	1
0	x	x	0
1	x	1	0
0	0	x	0

Q_1

D_0

0	0	x	0
0	x	x	0
1	x	x	0
1	0	x	0

Q_0

$$D_2 = \overline{1} Q_2 Q_1 Q_0$$

$$D_1 = \overline{1} Q_2 Q_1 + \overline{1} Q_0 Q_1 \overline{Q_2}$$

$$D_0 = \overline{1} Q_2 Q_0$$

$$S = \overline{1} Q_2 Q_1 Q_0$$