



X	q ₂	q ₁	q ₀	C	B	A	q ₂ ⁺	q ₁ ⁺	q ₀ ⁺	Dec
0	0	0	0		1	1	0	1	1	3
0	0	0	1			1	0	0	0	0
0	0	1	0	1	1	1	1	0	1	5
0	0	1	1			1	0	1	0	2
0	1	0	0		1	1	1	1	1	7
0	1	0	1			1	1	0	0	4
0	1	1	0	1	1	1	0	0	1	1
0	1	1	1			1	1	1	0	6
1	0	0	0			1	0	0	1	1
1	0	0	1		1	1	0	1	0	2
1	0	1	0			1	0	1	1	3
1	0	1	1	1	1	1	1	0	0	4
1	1	0	0			1	1	0	1	5
1	1	0	1		1	1	1	1	0	6
1	1	1	0			1	1	1	1	7
1	1	1	1	1	1	1	0	0	0	0

$$A=1$$

$$B = Xq_0 + \overline{X}\overline{q_0} = X \oplus q_0$$

$$C = Bq_1 + \overline{q_1}\overline{X}\overline{q_0}$$

