



q ₃	q ₂	q ₁	q ₀	Dec	A	B	C	D	q ₃ ⁺	q ₂ ⁺	q ₁ ⁺	q ₀ ⁺	Dec
0	0	0	0	0	0				0	0	0	1	1
0	0	0	1	1		1			0	0	1	0	2
0	0	1	0	2				1	0	0	1	1	3
0	0	1	1	3		1			0	1	1	1	7
0	1	0	0	4				1	0	1	0	1	5
0	1	0	1	5				1	0	1	0	0	6
0	1	1	0	6				1	0	0	0	0	4
0	1	1	1	7	1	1	1	1	1	0	0	0	8
1	0	0	0	8				1	0	0	1	0	9
1	0	0	1	9				1	0	1	0	0	10
1	0	1	0	10				1	0	0	0	0	8
1	0	1	1	11	1			1	0	0	1	1	1
1	1	0	0	12	1	1		1	0	0	0	1	1
1	1	0	1	13		1		1	1	1	0	0	14
1	1	1	0	14			1	1	0	1	1	1	11
1	1	1	1	15	1	1	1	1	0	0	0	1	1

$$A = q_3 q_2 \bar{q}_0 + q_2 q_1 q_0 + q_3 q_1 q_0$$

$$B = q_3 q_2 \bar{q}_0 + q_3 q_2 q_1 + \bar{q}_3 q_1 q_0$$

$$C = \bar{q}_1 q_0 + q_2 q_0 + q_3 q_0 + \bar{q}_3 q_2 q_1 + q_3 \bar{q}_2 q_1$$

$$D = \bar{q}_1 + (\overline{q_2 \oplus q_0})(\overline{q_3 q_1}) + q_3 q_2 \bar{q}_1 \bar{q}_0$$

0111	q ₃	q ₂	q ₁	q ₀	Dec	A	B	C	D	q ₃ ⁺	q ₂ ⁺	q ₁ ⁺	q ₀ ⁺	Dec
0010	0	0	0	0	0	0	0	0	1	0	0	0	1	1
0001	0	0	0	1	1	0	0	0	1	1	0	0	0	2
0011	0	0	1	0	2	0	0	0	1	0	0	0	1	3
0101	0	0	1	1	3	0	1	0	0	0	1	1	1	7
0110	0	1	0	0	4	0	0	0	1	0	1	0	1	5
0100	0	1	0	1	5	0	0	1	1	0	1	1	0	6
0111	0	1	1	0	6	0	0	0	1	0	0	1	0	4
0110	0	1	1	1	7	1	1	1	1	1	0	0	0	8
1000	1	0	0	0	8	0	0	0	0	1	1	0	0	1
1001	1	0	0	1	9	0	0	0	1	1	0	0	0	1
1010	1	0	1	0	10	0	0	0	1	0	1	0	0	10
1011	1	0	1	1	11	1	0	1	0	0	1	0	0	8
1100	1	1	0	0	12	1	1	0	1	0	0	0	0	1
1101	1	1	0	1	13	0	0	1	1	1	1	0	0	14
1110	1	1	1	0	14	0	1	0	1	1	0	0	1	11
1111	1	1	1	1	15	1	1	1	0	0	0	0	1	1

