



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
0	0	0	1	1					0	0	1	0	2
0	0	1	0	2					0	0	1	1	3
0	0	1	1	3		1			0	1	1	1	7
0	1	0	0	4					0	1	0	1	5
0	1	0	1	5					0	1	1	0	6
0	1	1	0	6					1	0	0	1	9
0	1	1	1	7	1	1	1		1	0	0	1	11
1	0	0	0	8					1	0	1	1	10
1	0	0	1	9					1	0	1	0	8
1	0	1	0	10					0	0	0	1	1
1	0	1	1	11	1				0	0	0	1	1
1	1	0	0	12	1	1			1	1	1	0	1
1	1	0	1	13					1	0	1	1	1
1	1	1	0	14					0	0	0	1	1
1	1	1	1	15	1	1	1		0	0	0	1	1

$$A = q_3q_2\bar{q}_1\bar{q}_0 + q_2q_1q_0 + q_3q_1q_0$$

$$B = q_3q_2\bar{q}_0 + q_3q_2q_1 + \bar{q}_3q_1q_0$$

$$C = \bar{q}_1q_0 + q_2q_0 + q_3q_0 + \bar{q}_3q_2q_1 + q_3q_2q_1$$

$$D = \bar{q}_1 + (q_2 \oplus q_0)(q_3q_1) + q_3q_2q_1\bar{q}_0$$

