

① $q_0[0]$:

	$q_1 \backslash q_0$			
	00	01	11	10
0	0	1	0	1
1	1	0	1	0

$$q_0[0] = (!q_1[1] q_1[0]) + (!q_1[0] q_1[1]) + (q_1[1] q_1[0]) + (!q_1[1] !q_1[0])$$

$q_0[1]$:

	00	01	11	10
0	1	0	1	1
1	1	0	0	0

$$q_0[1] = (!q_1[1] !q_1[0]) + (!q_1[0] q_1[1])$$

$$q_0[0] = (q_1[1]) \oplus q_1[0] \oplus q_0[1] \quad (\text{wired from alpha})$$

