a_2	a_0	b_0	b_1	b_2	b_3
0	0	1	0	0	0
0	1	0	1	0	0
1	0	0	0	1	0
1	1	0	0	0	1

$$b_0 = (\overline{a_0 \oplus a_1})\,\bar{a}_0$$

$$b_1 = (a_0 \oplus a_1)\,a_0$$

$$b_2 = (a_0 \oplus a_1)\,a_1$$

$$b_3 = (\overline{a_0 \oplus a_1})\,a_0$$

2-

a_2	a_1	a_0	b_0	b_1	b_2	b_3	b_4	b_5	b_6	b_7	b_8
0	0	0	1	0	0	0	0	0	0	0	
0	0	1	0	1	0	0	0	0	0	0	
0	1	0	0	0	1	0	0	0	0	0	
0	1	1	0	0	0	1	0	0	0	0	
1	0	0	0	0	0	0	1	0	0	0	
1	0	1	0	0	0	0	0	1	0	0	
1	1	0	0	0	0	0	0	0	1	0	
1	1	1	0	0	0	0	0	0	0	1	