

Binary				gray			
x_3	x_2	x_1	x_0	y_3	y_2	y_1	y_0
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	1
0	0	1	0	0	0	1	1
0	0	1	1	0	0	1	0
0	1	0	0	0	1	1	0
0	1	0	1	0	1	1	1
0	1	1	0	0	1	0	1
0	1	1	1	0	1	0	0
1	0	0	0	1	1	0	0
1	0	0	1	1	1	0	1
1	0	1	0	1	1	1	0
1	0	1	1	1	1	1	0
1	1	0	0	1	0	1	0
1	1	0	1	1	0	1	1
1	1	1	0	1	0	0	1
1	1	1	1	1	0	0	0

$$x_3 = y_3$$

$$y_2 = x_3 \text{ XOR } x_2$$

$$y_1 = x_2 \text{ XOR } x_1$$

$$y_0 = x_1 \text{ XOR } x_0$$

Zahra Khavari ۹۷۲۰۲۳۰۴۵