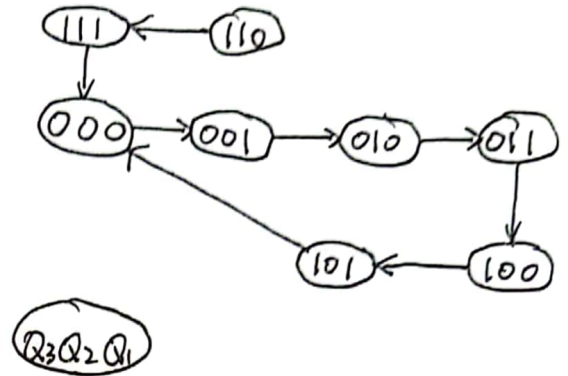


$$4. (1) \left. \begin{array}{l} J_1 = K_1 = 1 \\ J_2 = Q_1 \cdot Q_3' \quad K_2 = Q_1 \\ J_3 = Q_1 \cdot Q_2 \quad K_3 = Q_1 \end{array} \right\} \Rightarrow \left. \begin{array}{l} Q_1^* = Q_1' \\ Q_2^* = Q_1 \cdot Q_3' \cdot Q_2' + Q_1' \cdot Q_2 \\ Q_3^* = Q_1 \cdot Q_2 \cdot Q_3' + Q_1' \cdot Q_3 \end{array} \right\}$$

(2)

$Q_3$	$Q_2$	$Q_1$	$Q_3^*$	$Q_2^*$	$Q_1^*$
0	0	0	0	0	1
0	0	1	0	1	0
0	1	0	0	1	1
0	1	1	1	0	0
1	0	0	1	0	1
1	0	1	0	0	0
1	1	0	1	1	1
1	1	1	0	0	0



$$(3) Y = (Q_2' Q_1' + Q_2 Q_1') \cdot Q_3 + (Q_2' Q_1 + Q_2 Q_1) \cdot Q_3'$$

$$= \sum m(1, 3, 4, 6)$$

输出序列为: 010110

### 三、综合

1. (1)

A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
1	0	0	1
0	1	1	0
1	0	1	0
1	1	0	0
1	1	1	1

$$Y = \sum m(1, 2, 4, 7)$$