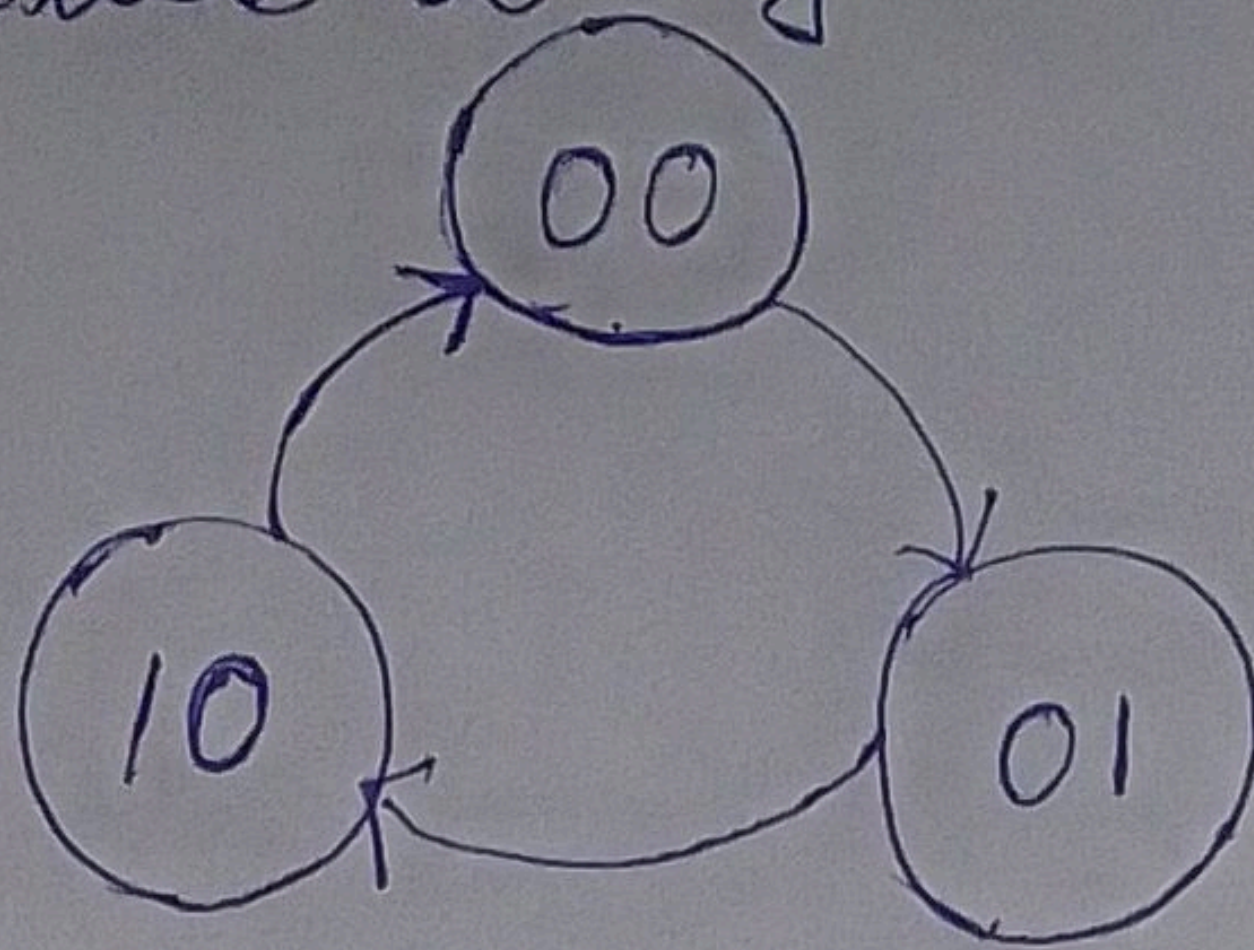


State Diagram



State Table

Present State		Next State		D_1	D_0
Q_1	Q_0	Q_1	Q_0		
0	0	0	1	0	1
0	1	1	0	1	0
1	0	0	0	0	0
1	1	x	x	x	x

K-map

$Q_1 \backslash Q_0$	$\overline{Q_0}$ 0	Q_0 1
$\overline{Q_1}$ 0	0	1
Q_1 1	0	X

$$D_1 = Q_0$$

$Q_1 \backslash Q_0$	$\overline{Q_0}$ 0	Q_0 1
$\overline{Q_1}$ 0	1	0
Q_1 1	0	X

$$D_0 = \overline{Q_1} \overline{Q_0}$$

Logic Diagram

