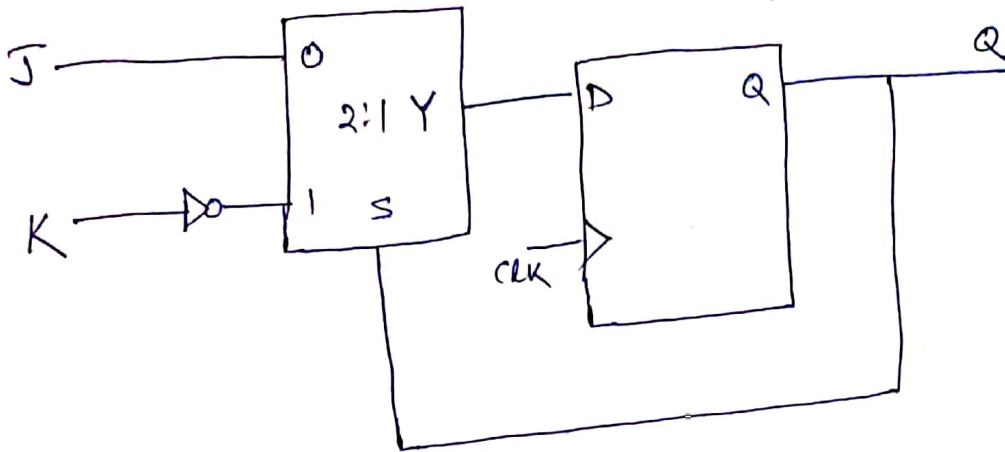


①



$$D = JQ' + K'Q$$

②

(a)

P	N	Q(t+1)
0	0	0
0	1	Q(t)
1	0	Q'(t)
1	1	1

(b)

P	N	Q(t)	Q(t+1)
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1

②

NQ		00	01	11	10
P	0			1	
	1	1		1	1

$$Q(t+1) = PQ' + NQ$$

(c)

Q(t)	Q(t+1)	P	N
0	0	0	X
0	1	1	X
1	0	X	0
1	1	X	1

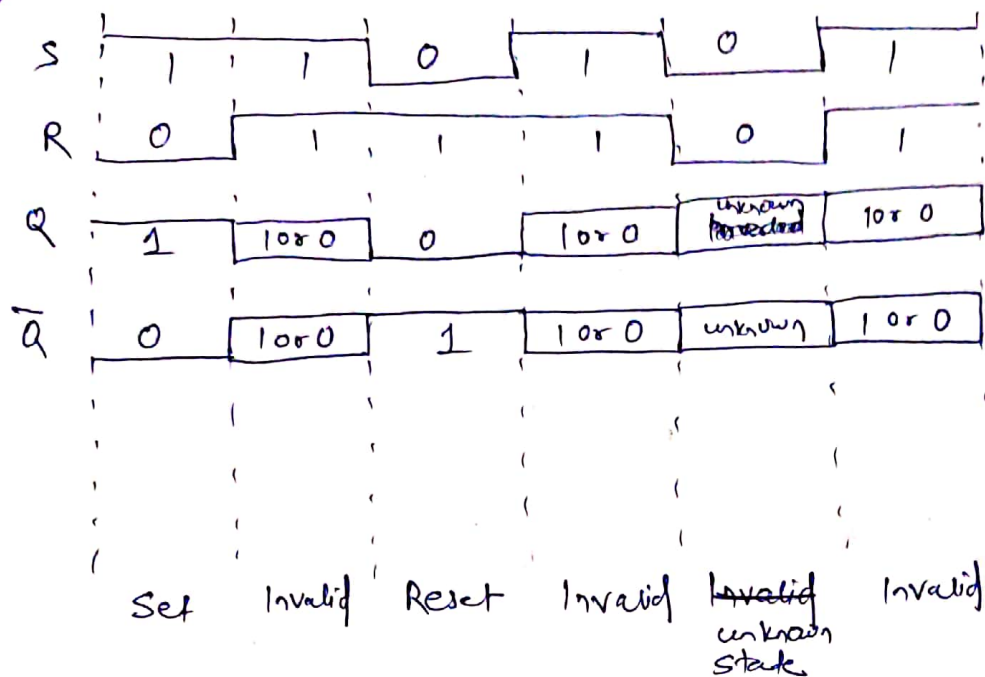
(d) connect P and N together

$$\begin{aligned}
 \textcircled{3} \quad Q'(t+1) &= (JQ' + K'Q)' \\
 &= (J' + Q)(K + Q') \\
 &= J'Q' + KQ
 \end{aligned}$$

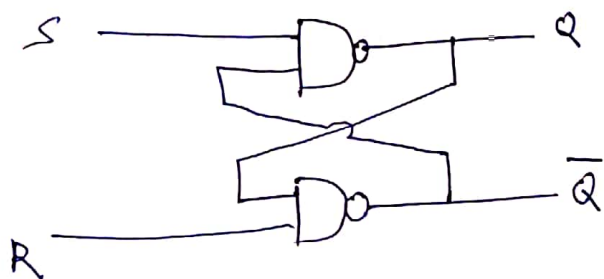
KQ		00	01	11	10
J	0	0	1	0	0
	1	1	1	0	1

3

4



5



S	R	Q	\bar{Q}
0	0	Not used	
0	1	1	0
1	0	0	1
1	1	Memory	

0