

CSC 137 Homework #4

1)

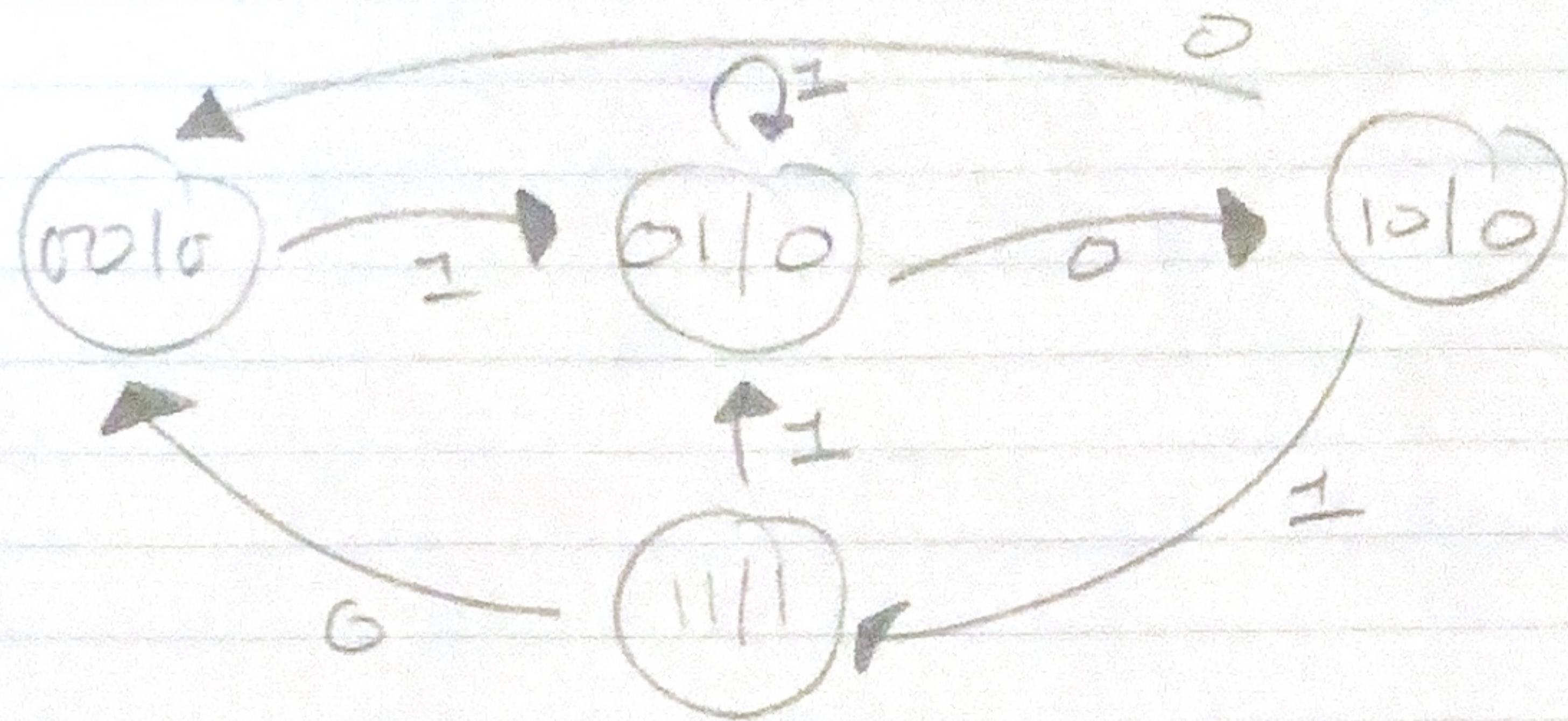
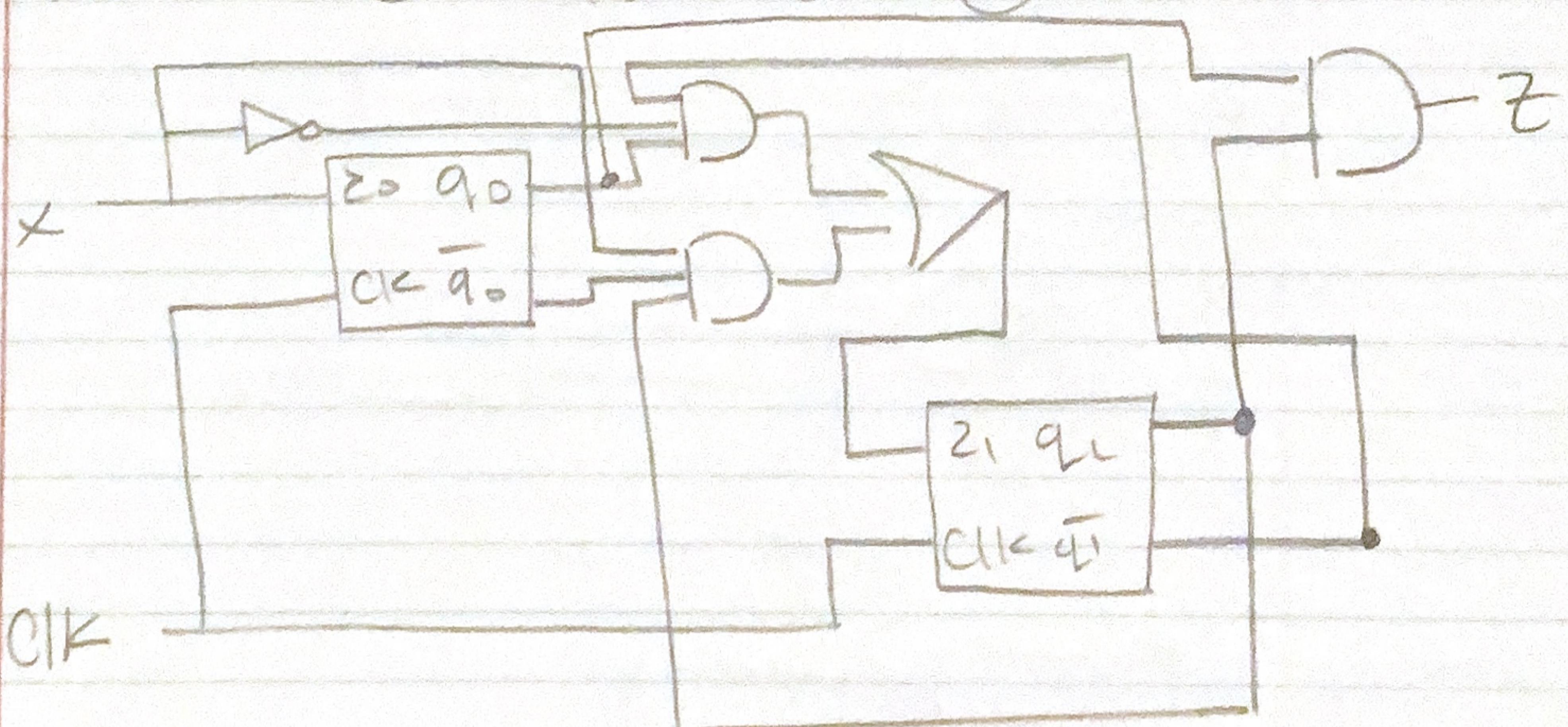
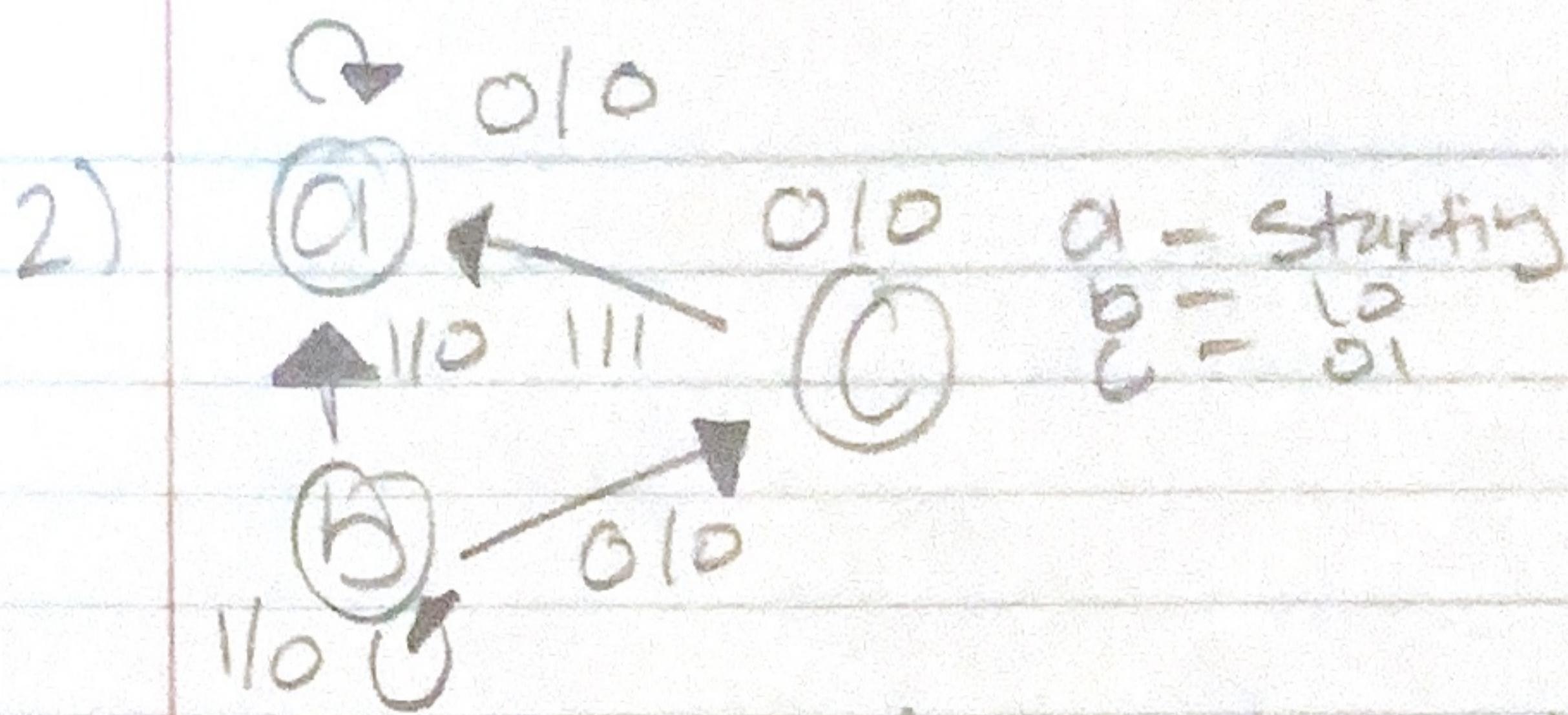


Table	<u>Preset</u>	<u>Next</u>	<u>Output</u>
	00	00 01	0
	01	10 01	0
	10	00 11	0
	11	00 01	1

x_0	x_1	x_0	x_1	$z_1 = \bar{q}_1 q_0 +$
00	0	00	0	$\bar{q}_1 q_0 +$
01	0	01	0	$q_1 \bar{q}_0 +$
11	0	11	0	$q_1 q_0 +$
10	0	10	0	$z_0 = x$





<u>Present</u>	<u>Input</u>	<u>next</u>	<u>output</u>
a	0	a	0
a	1	b	0
b	0	c	0
b	1	c	0
c	0	a	0
c	1	a	1

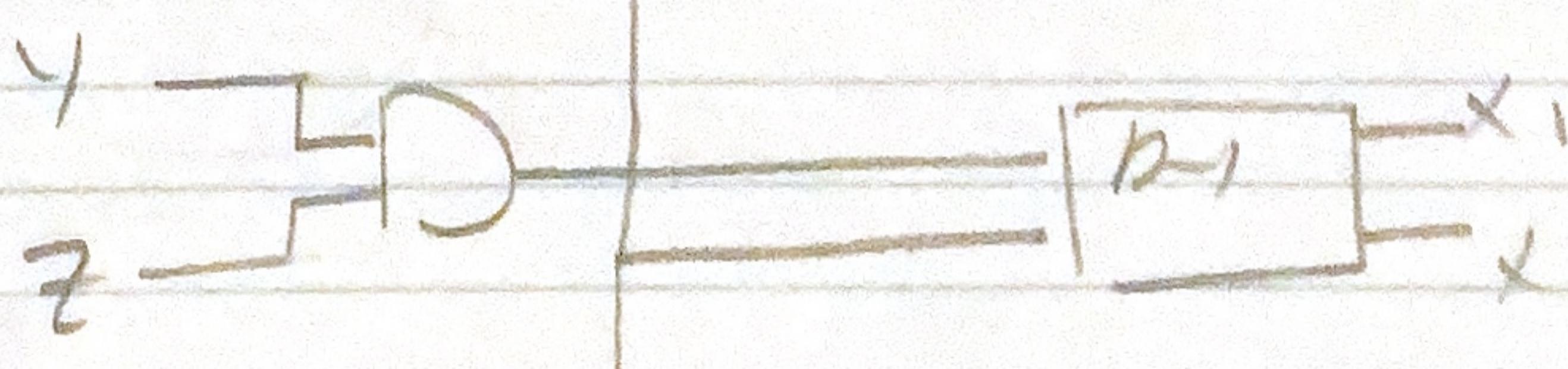
D+	00	01	11	10
0	0	1	0	0
1	0	1	1	1

$$Dx = (Y \cdot Z')$$

Dy	00	01	11	10
0	0	0	0	0
1	1	0	1	1

$$Dy = (Z)$$

Z	00	01	11	10
0	0	0	1	0
1	0	1	1	0



Q1K

