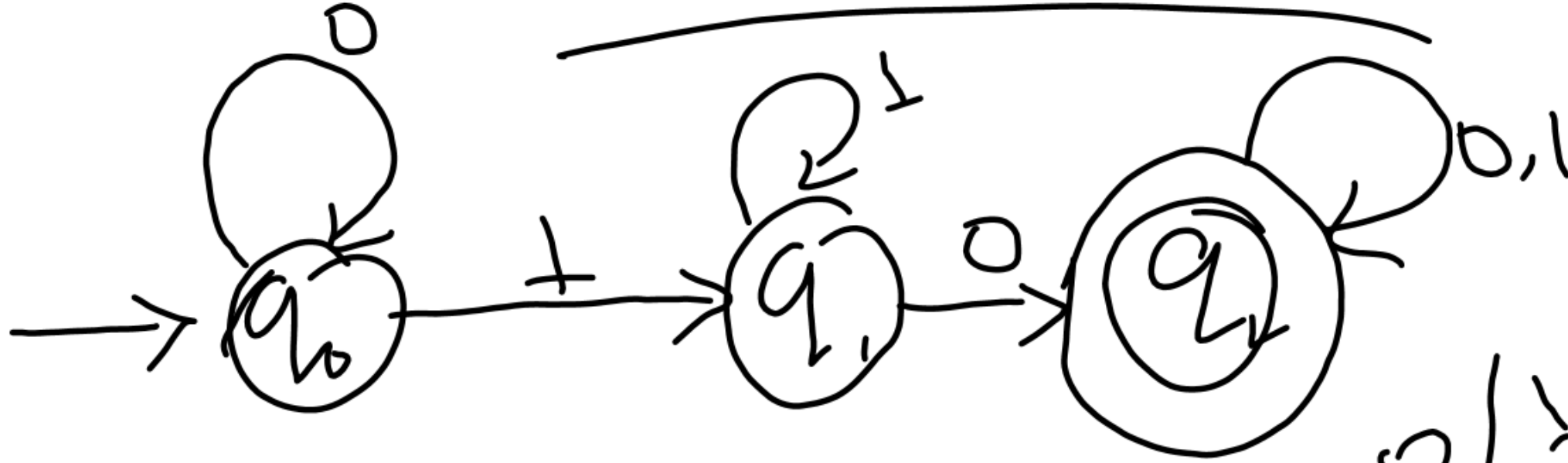


State Diagram

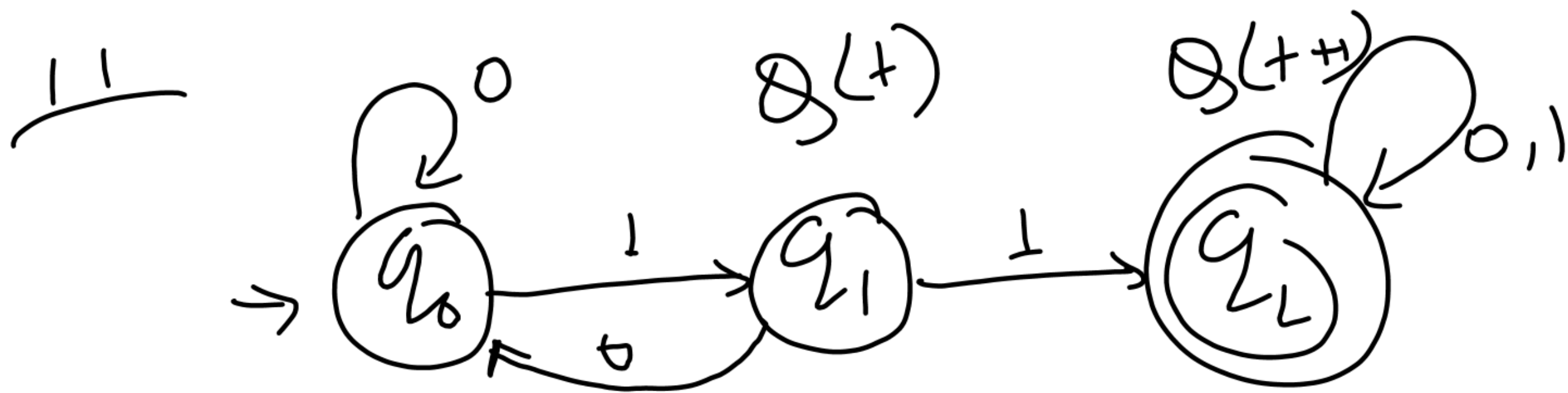


Q^4

Q^* 1 \rightarrow $q_1 \rightarrow$ 1
11

$q_2 \rightarrow$ 1 0
0 \rightarrow

10
/



$q_0 \rightarrow 0.$
 $q_1 \rightarrow 10.$

a_1

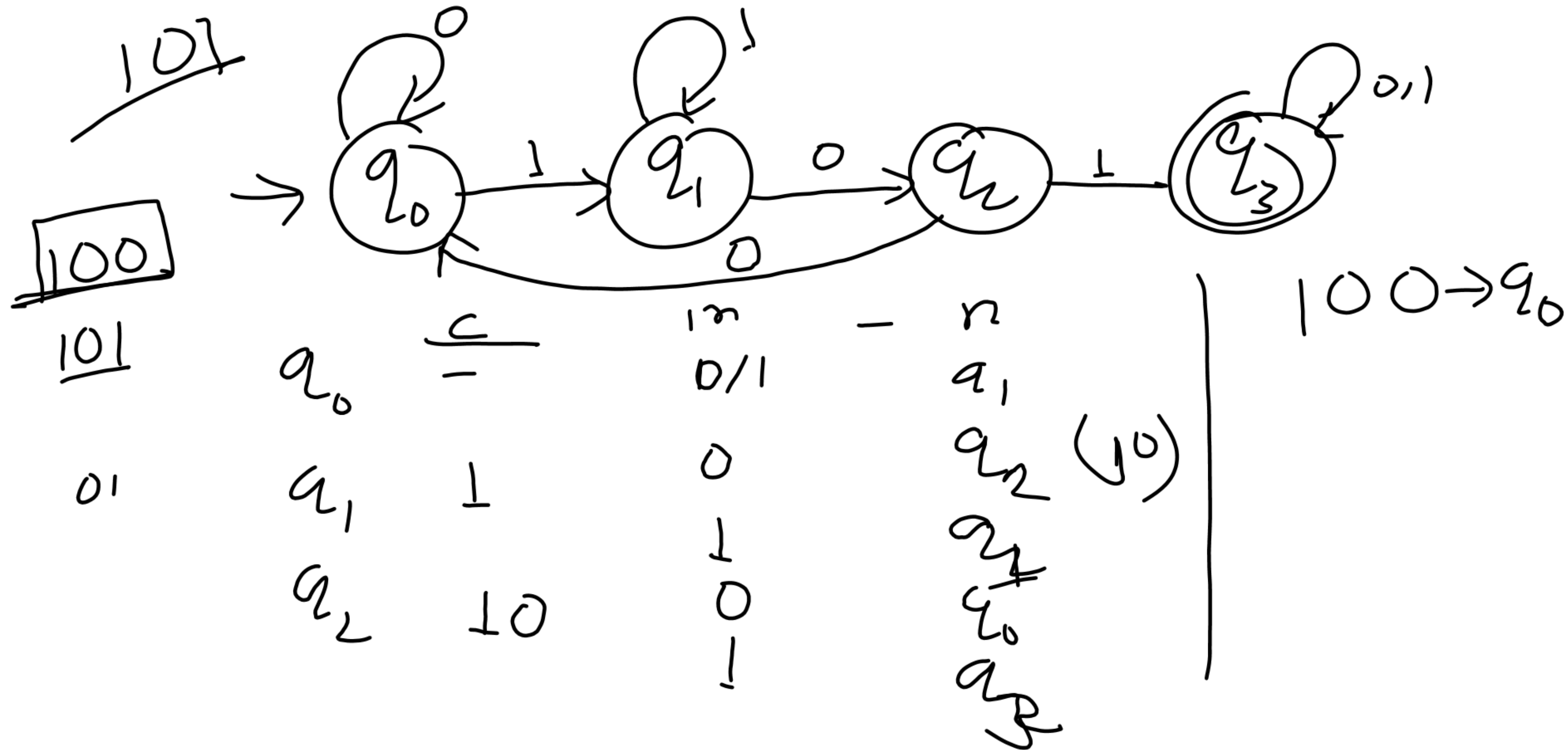
$\boxed{10}$
 $q_1 \rightarrow 10 \rightarrow q_0$
 $101 \rightarrow q_1$
 1011

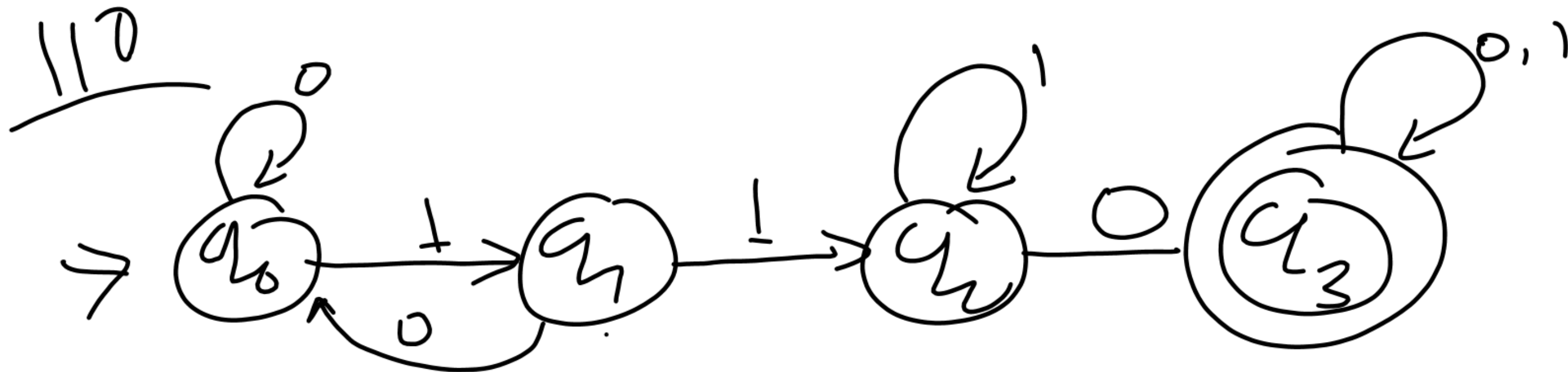


↓ $q_1 \rightarrow 0/1$

10

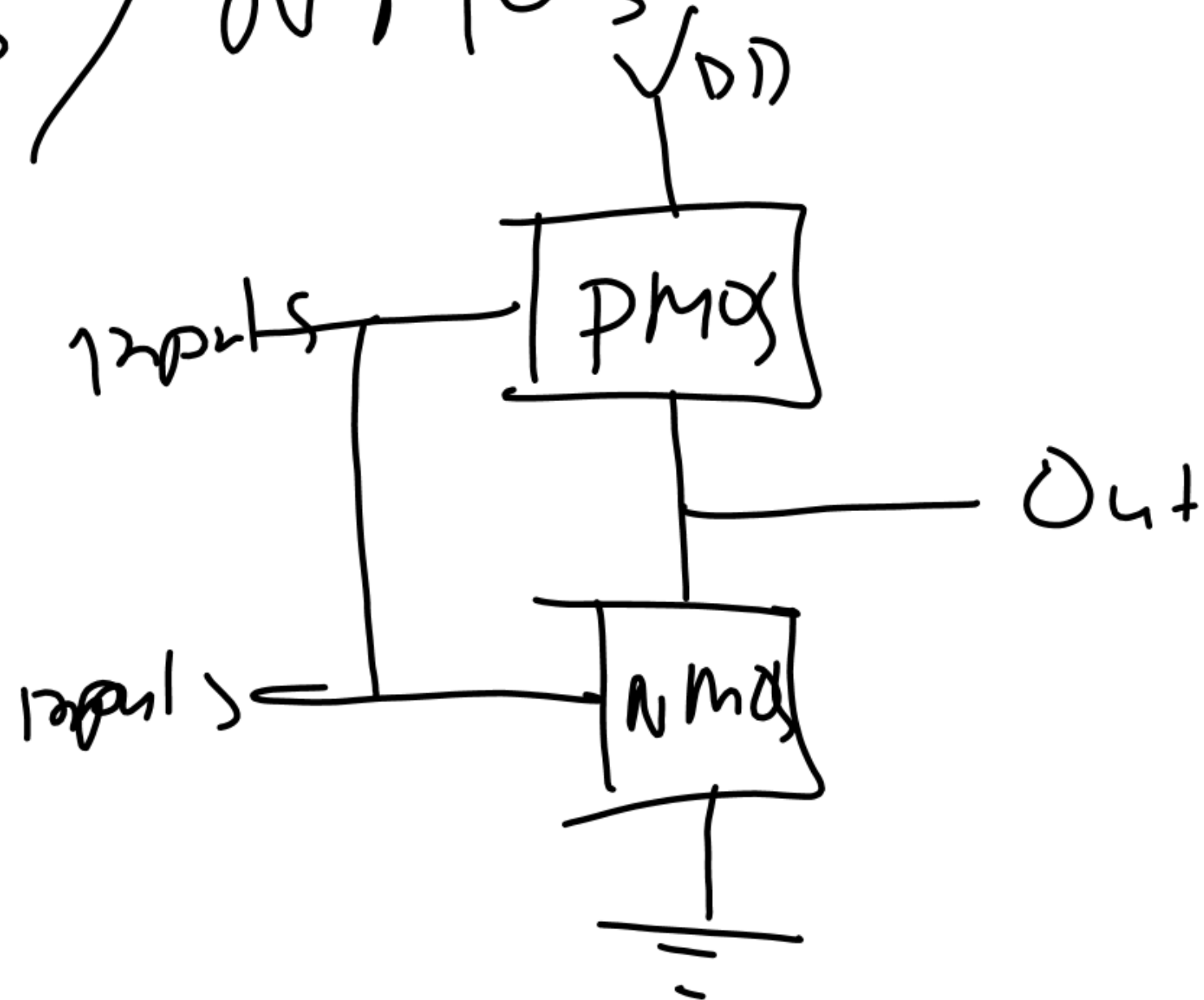
11-0



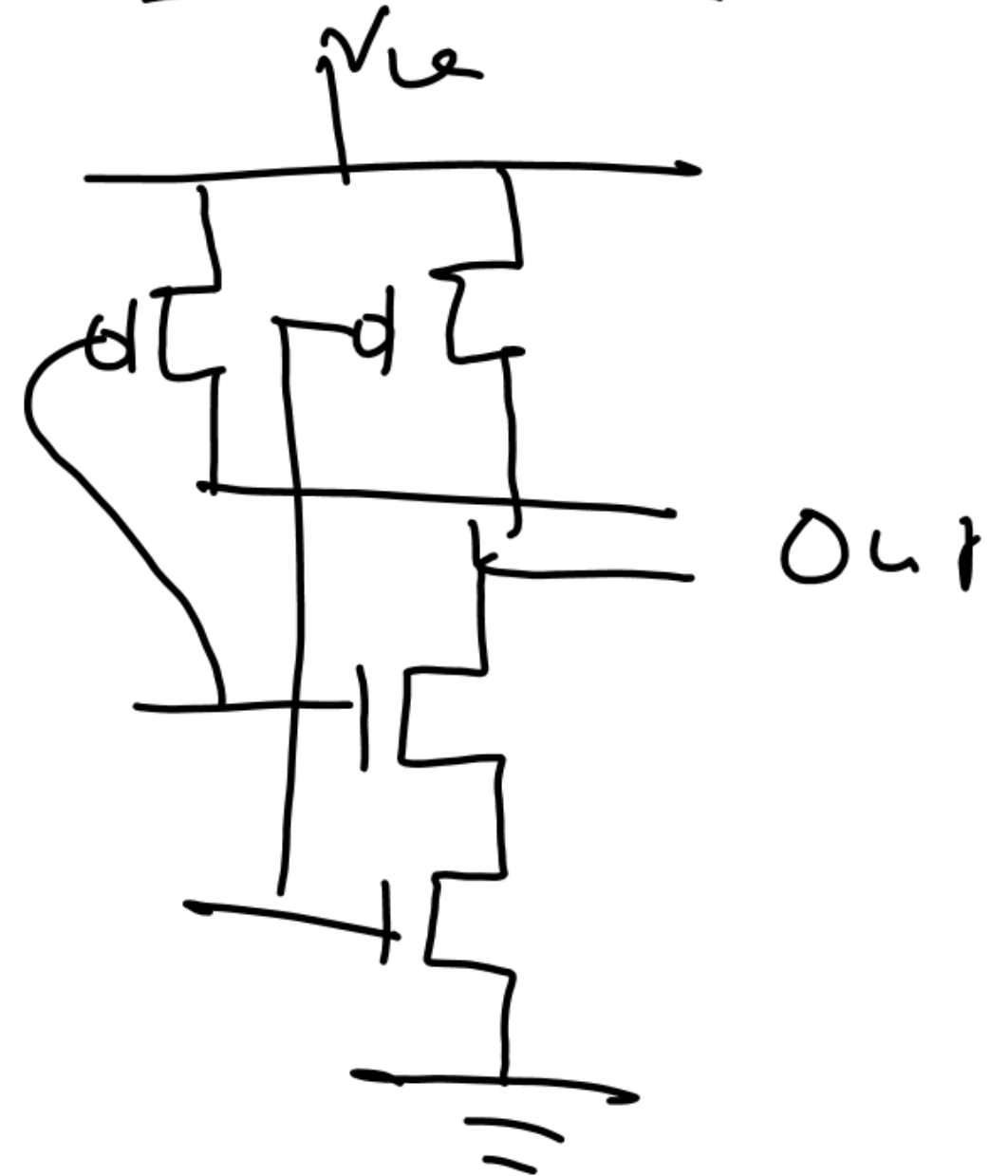


$q_0 \rightarrow 0 \rightarrow q_0 \rightarrow 1 \rightarrow q_1 \rightarrow 0 \rightarrow q_0$

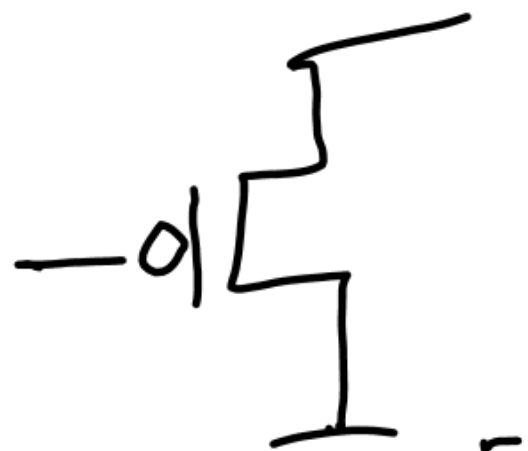
PMOS / NMOS



C_MOS

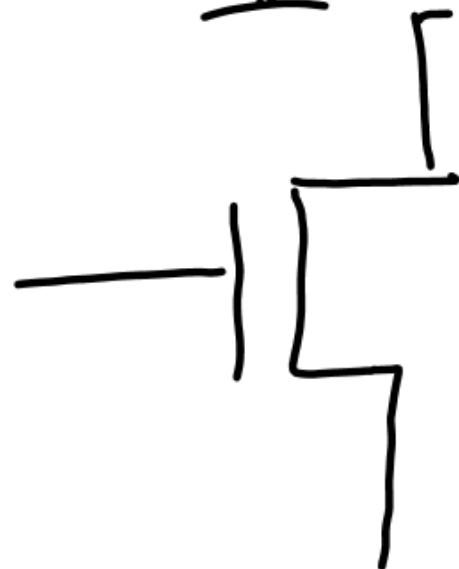


PMOS

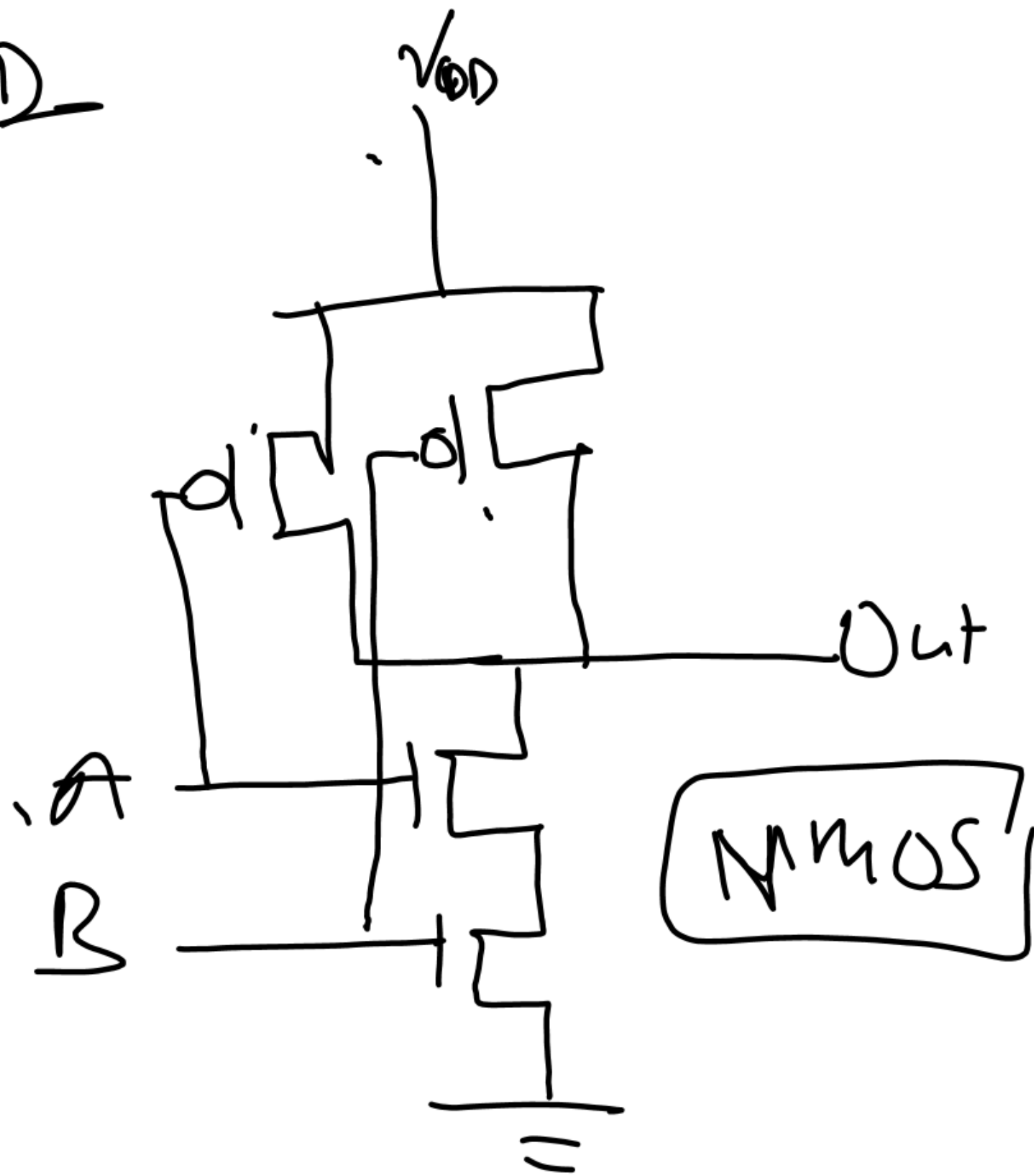


NMOS

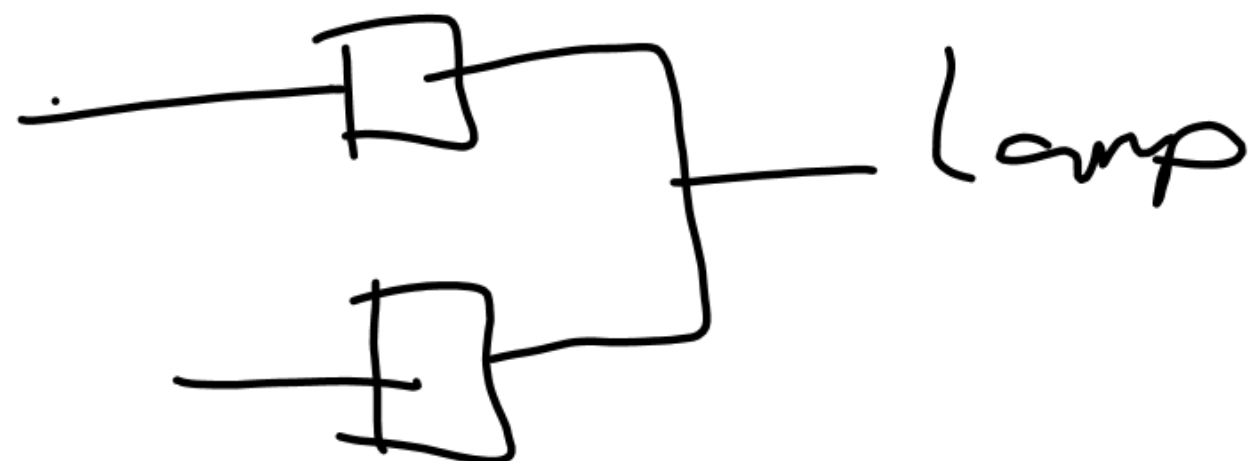
①

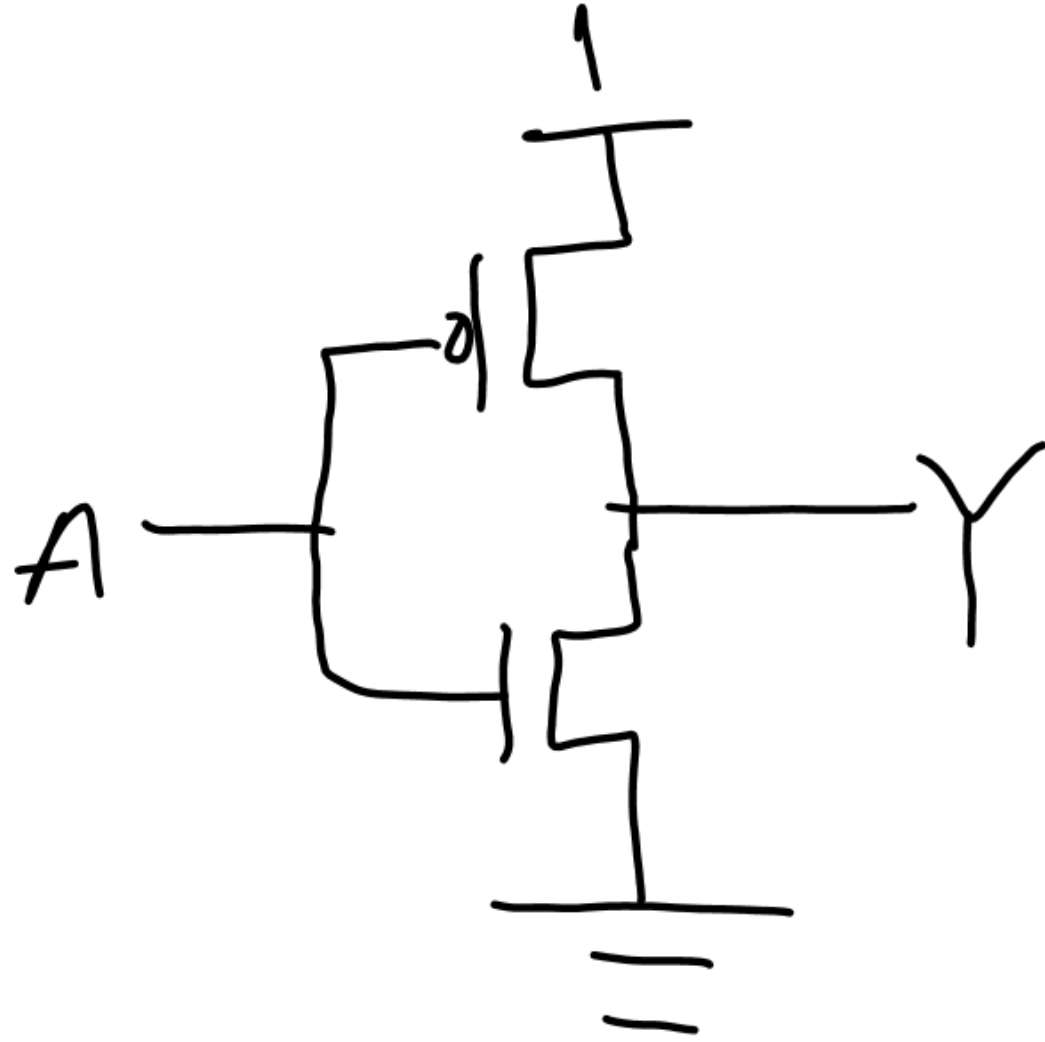


NAND



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





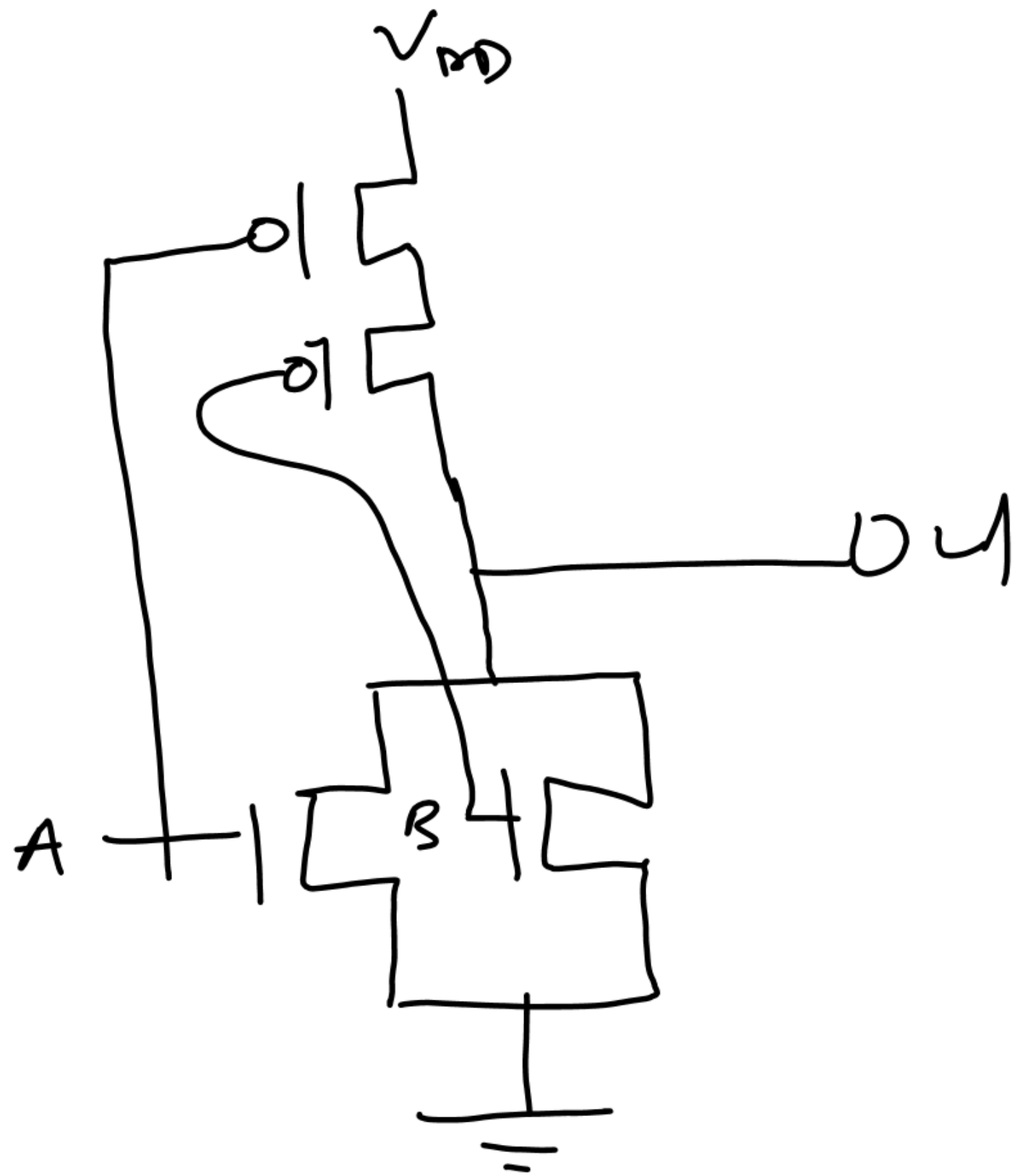
A	Y
0	1
1	0

PMOS

input $\rightarrow 0$
output $\rightarrow 1 (V_{DD})$

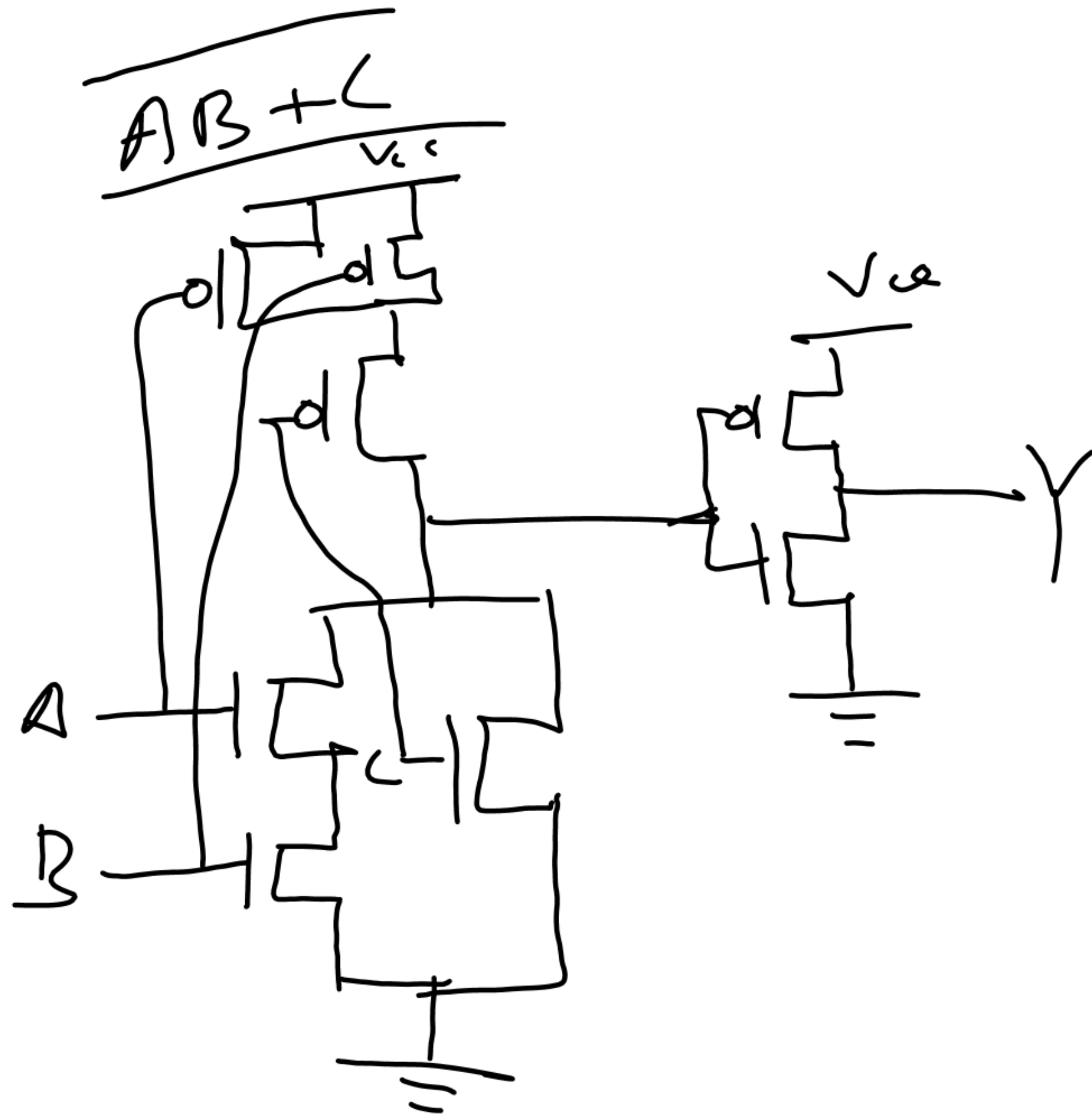
NMOS

input $\rightarrow 1$
output $\rightarrow 0 (GND)$



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

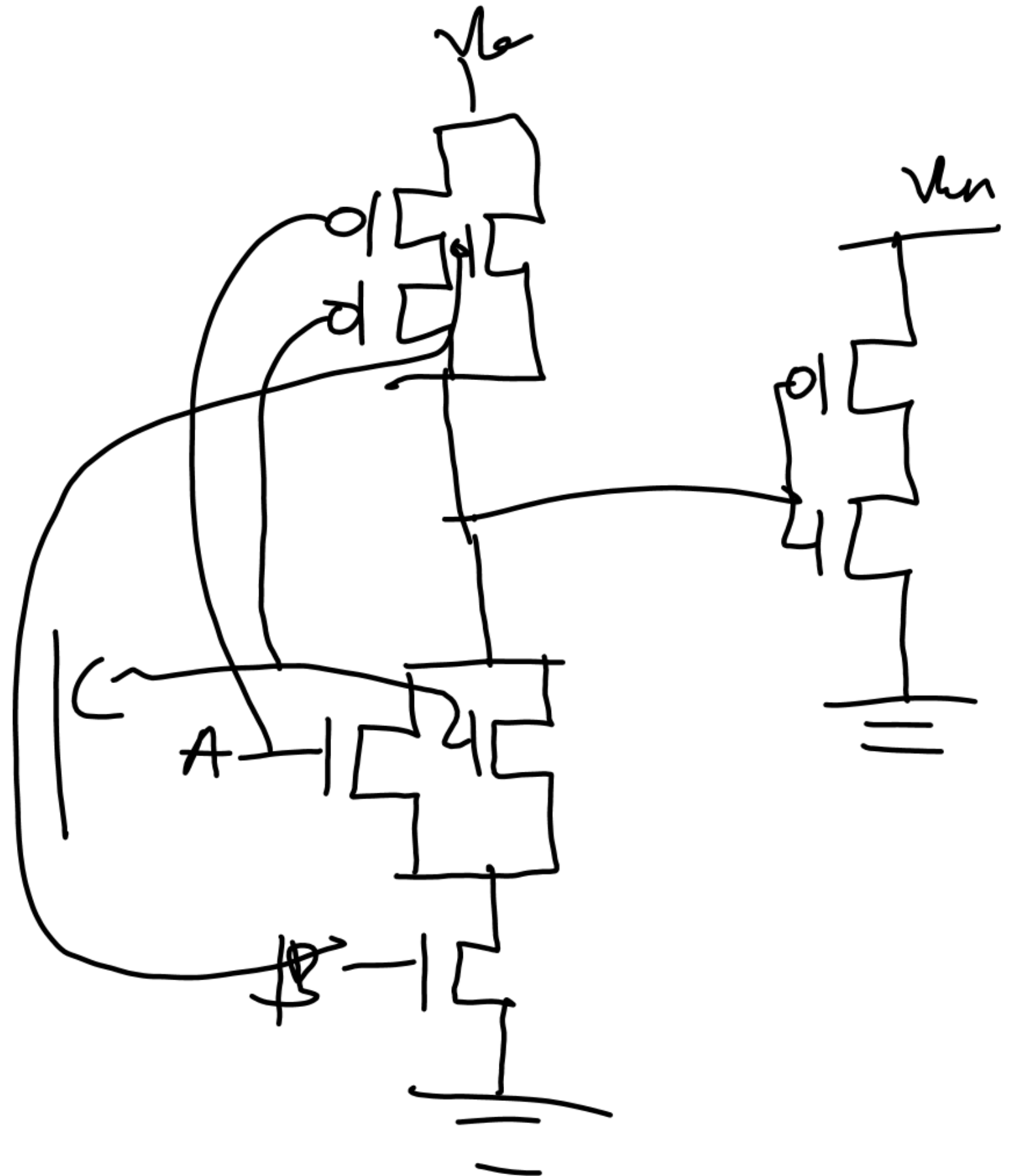
$A+B$



A	B	
0	0	0
0	1	0
1	0	0
1	1	1

$$AB + BC$$

$$B(\overline{A} + C)$$



$\overline{A}B$

