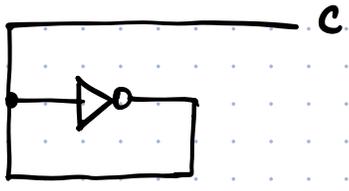
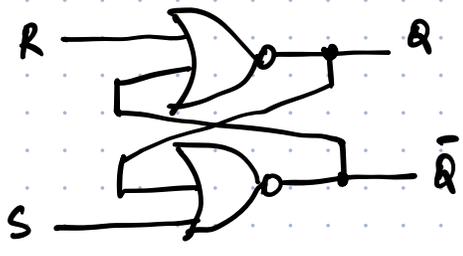


March 4, 2026

\* Oscillator

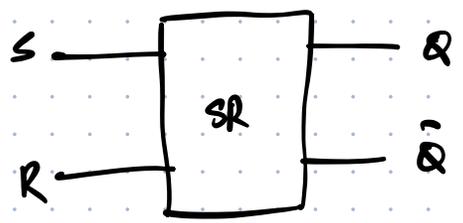


\* Storage

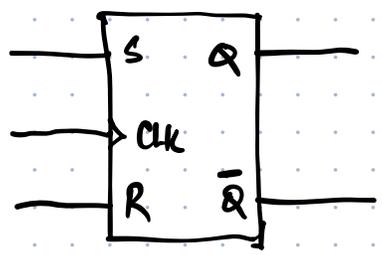
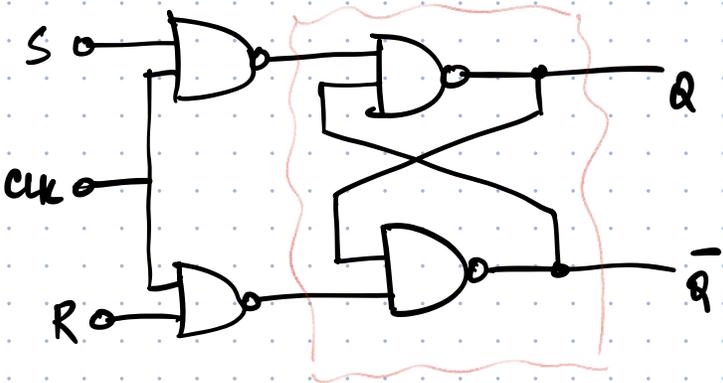


R	S	Q <sub>i</sub>	Q <sub>i+1</sub>
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

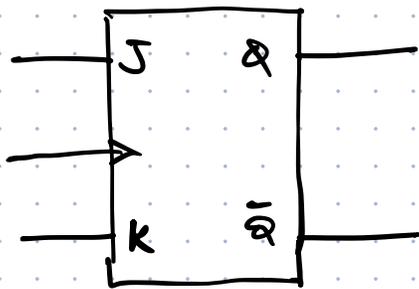
A	B	NOR
0	0	1
0	1	0
1	0	0
1	1	0



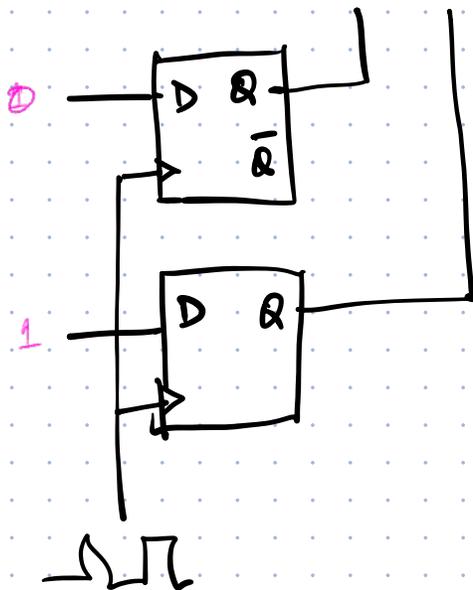
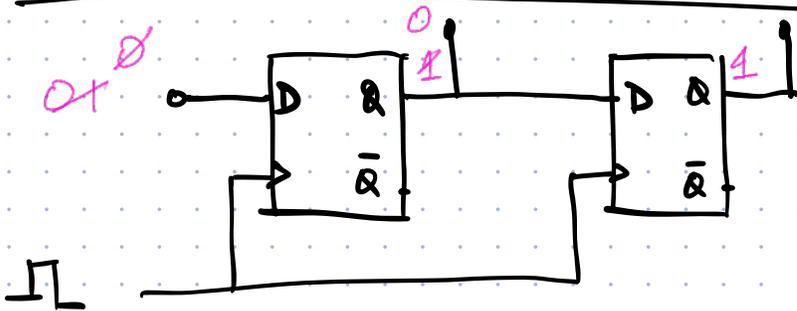
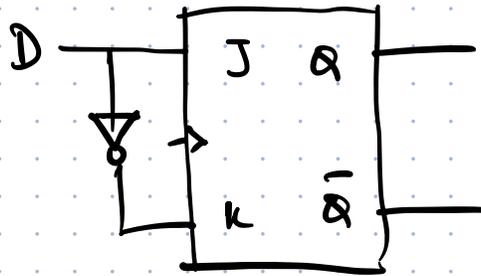
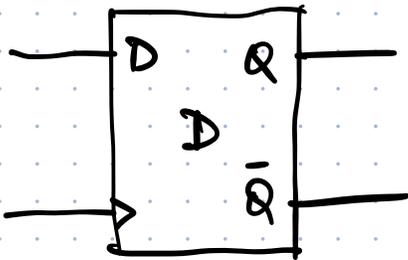
\* Flip Flops



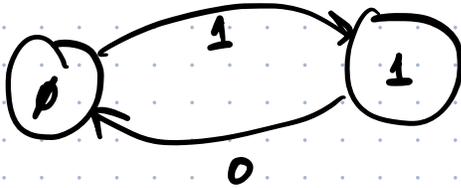
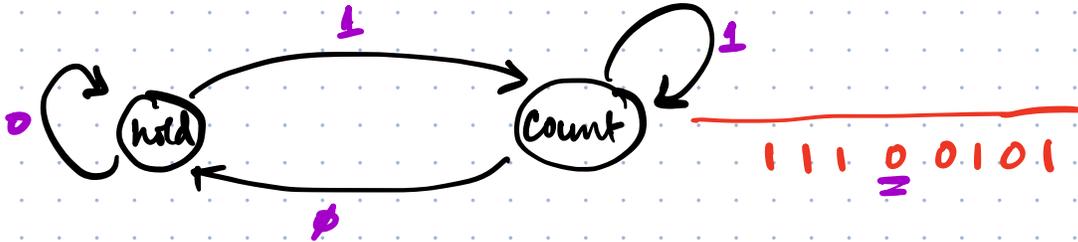
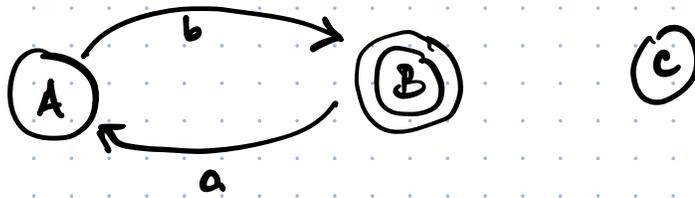
SR Latch



J	K	$Q_{i+1}$
0	0	$Q_i$
0	1	1
1	0	0
1	1	$\bar{Q}_i$



# Finite State Machines



## Midterm

Binary to decimal & decimal to binary conversion.

1011  $\longrightarrow$

85  $\longrightarrow$  64 ~~32~~ 16 4 1

1011.001  
↑

73.25

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37 — is complement / 2's complement  
-48 — " " "

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