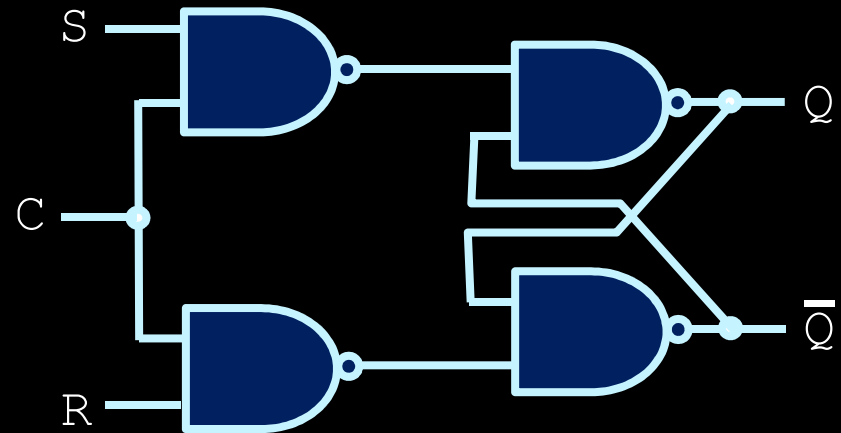




# Week 4 Review

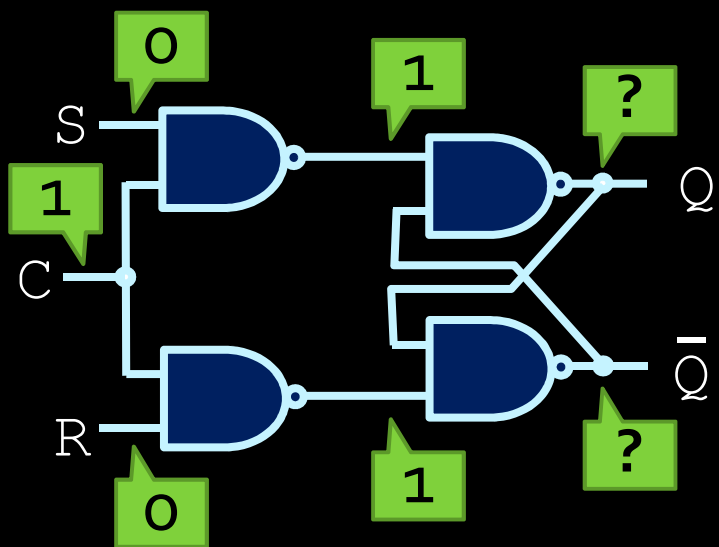
# Question #1

- What are the output values from  $Q$  and  $\bar{Q}$  given the following inputs on  $S$ ,  $R$  and  $C$ ?

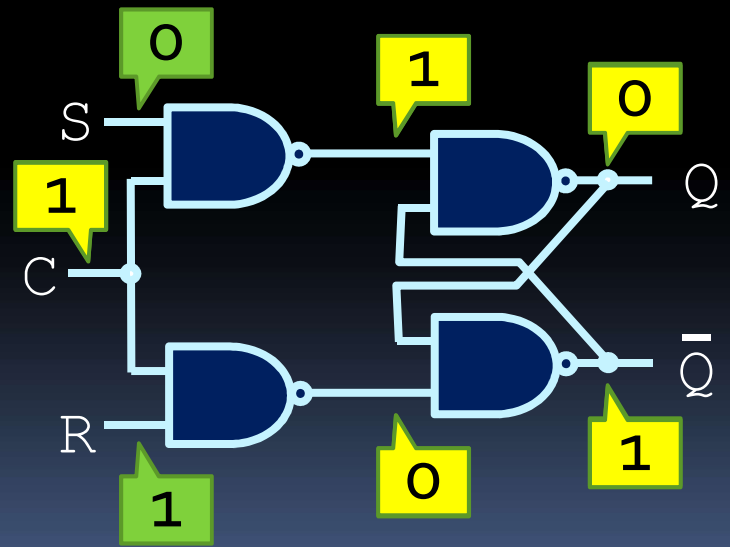
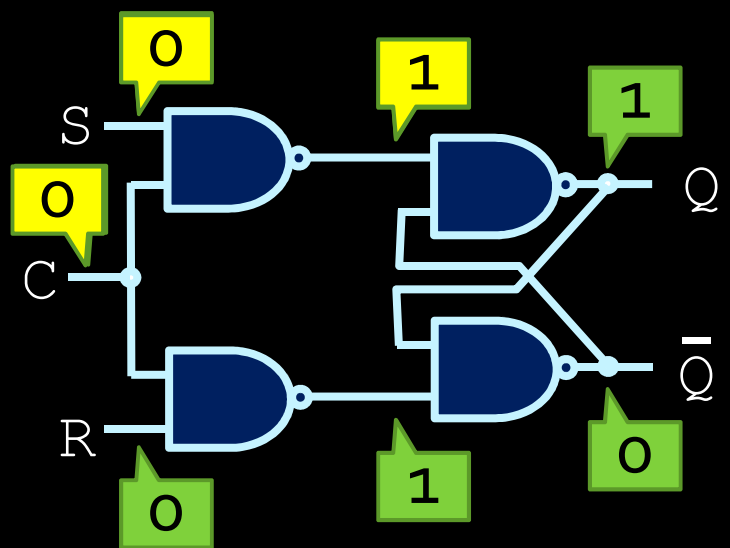


Time

S	R	C	Q	$\bar{Q}$
0	0	1		
1	0	1		
1	0	0		
0	0	0		
0	1	0		
0	1	1		

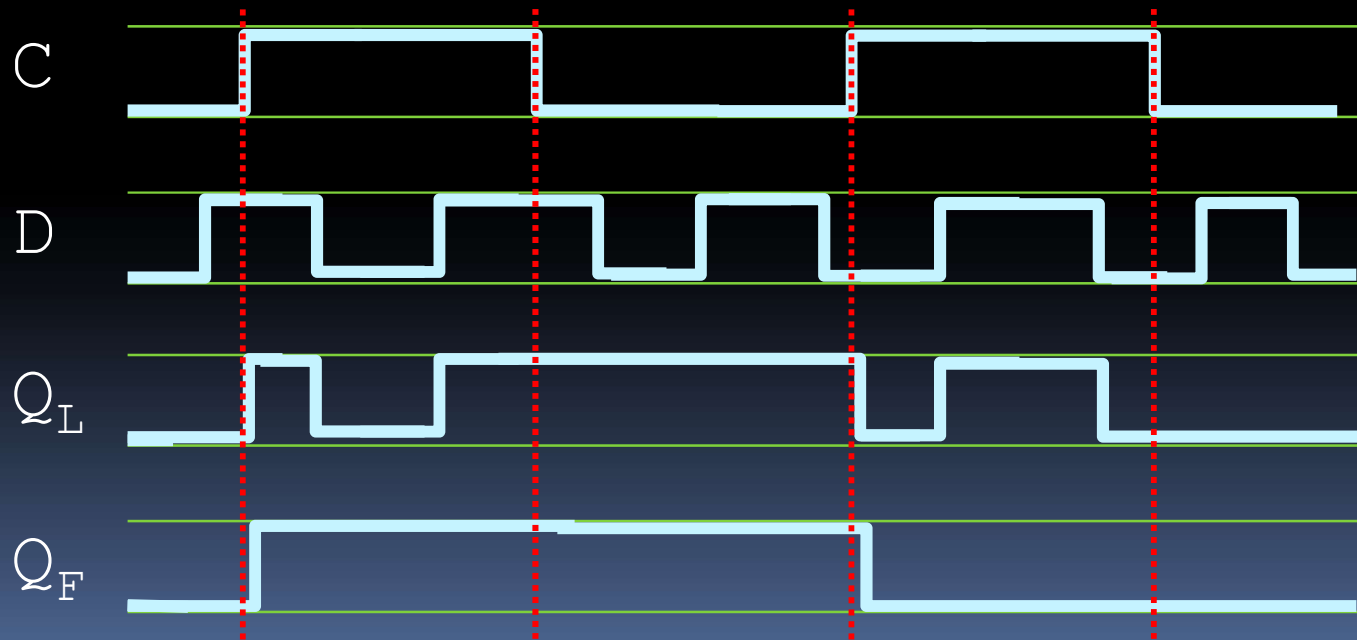
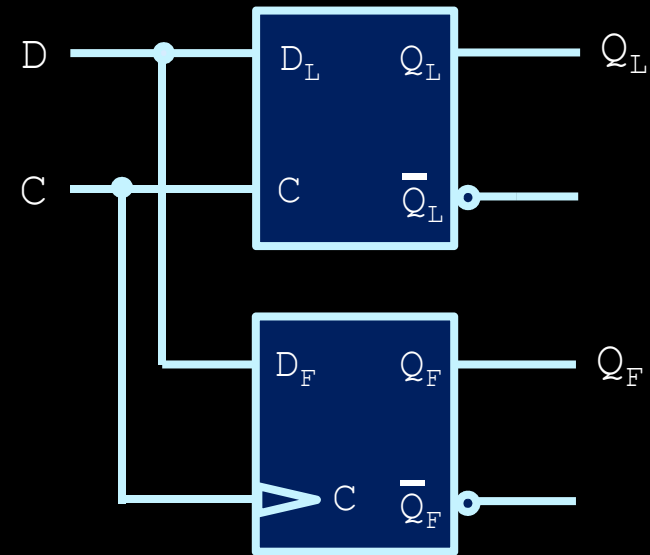


S	R	C	Q	$\bar{Q}$
0	0	1		
1	0	1		
1	0	0		
0	0	0		
0	1	0		
0	1	1		



## Question #2

- Given the circuit on the right and the input waveform below, what will the outputs be on  $Q_L$  and  $Q_F$ ?
  - What other info do you need?



## Question #3

- Assuming the Q outputs of both flip-flops start off low, what will the value of X & Y be over the next few clock cycles?
  - also assume positive edge trigger.

