Lab 03
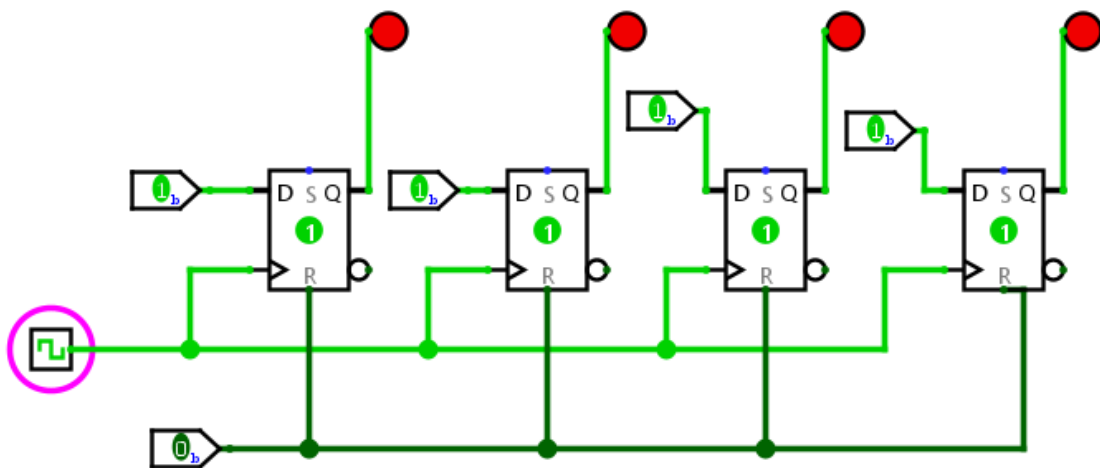
Exercise 1:

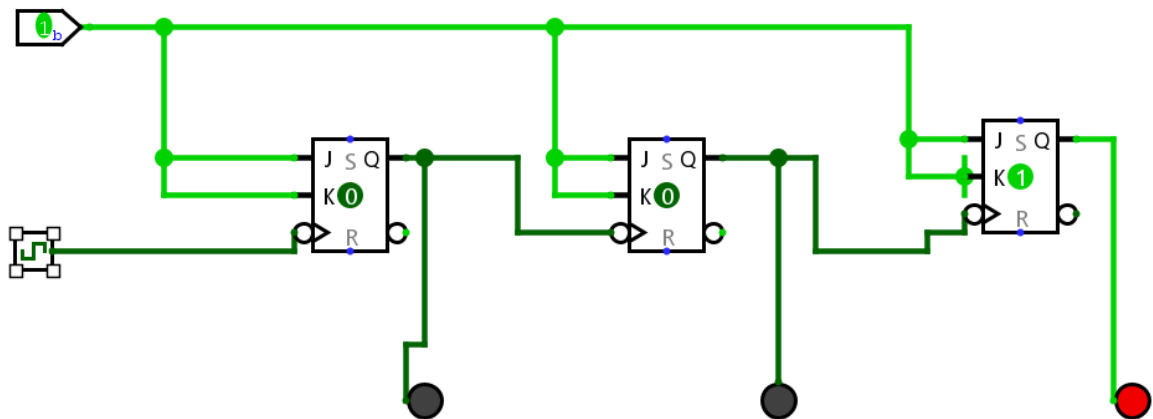| Ox	Input Binary	Output Binary
0	0000	0000
1	0001	0001
2	0010	0010
3	0011	0011
5	0101	0101
A	1010	1010
B	1011	1011
C	1100	1100
D	1101	1101
E	1110	1110
F	1111	1111

Exercise 2:
Name one crucial role (hardware) counters play in modern computing architectures?
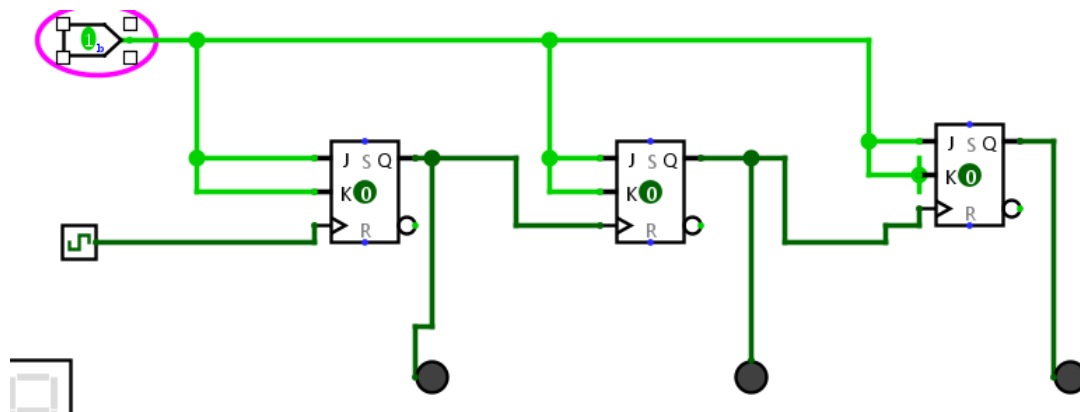
Hardware counters are set of counters.
Describe in a few sentences how a ripple counter works. How does the "ripple" occur ?

Ripple is a special type of asynchronous counter to make the clock pulse ripples through the circuit
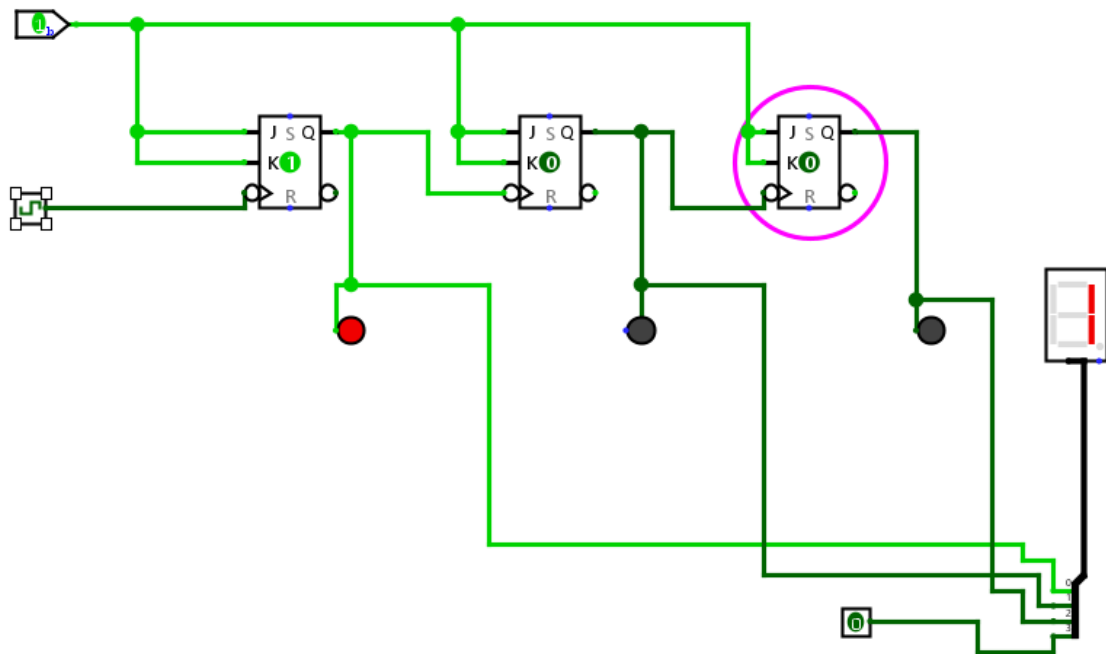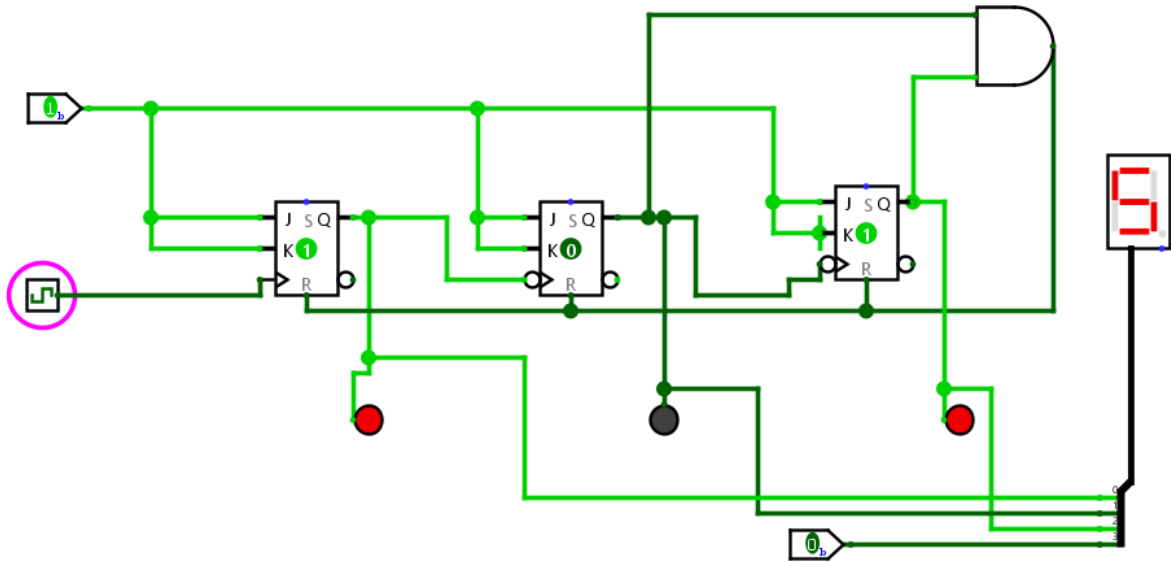
Exercise 3:

Exercise 4:

Exercise 5:

Exercise 6:

Exercise 7 + 8: