System Design / chronogram
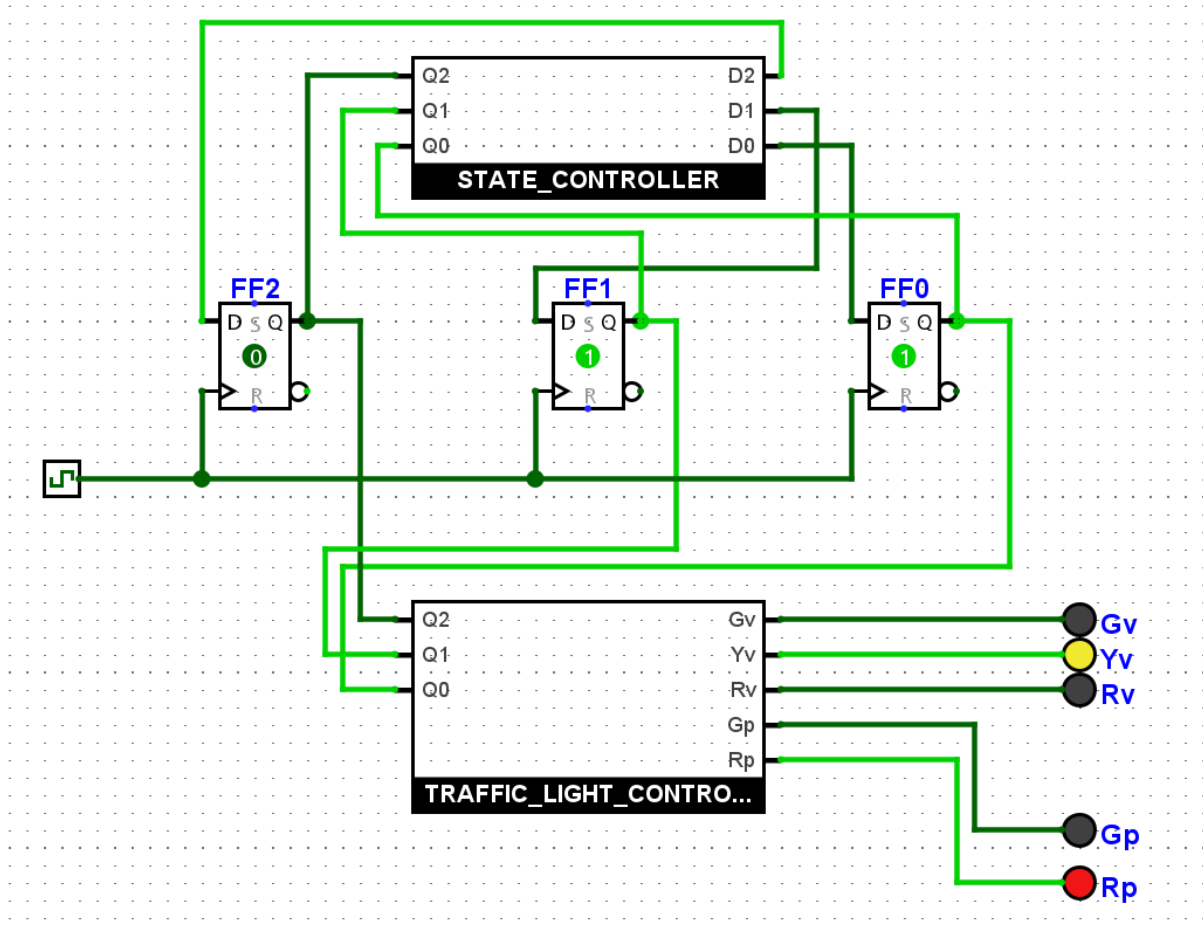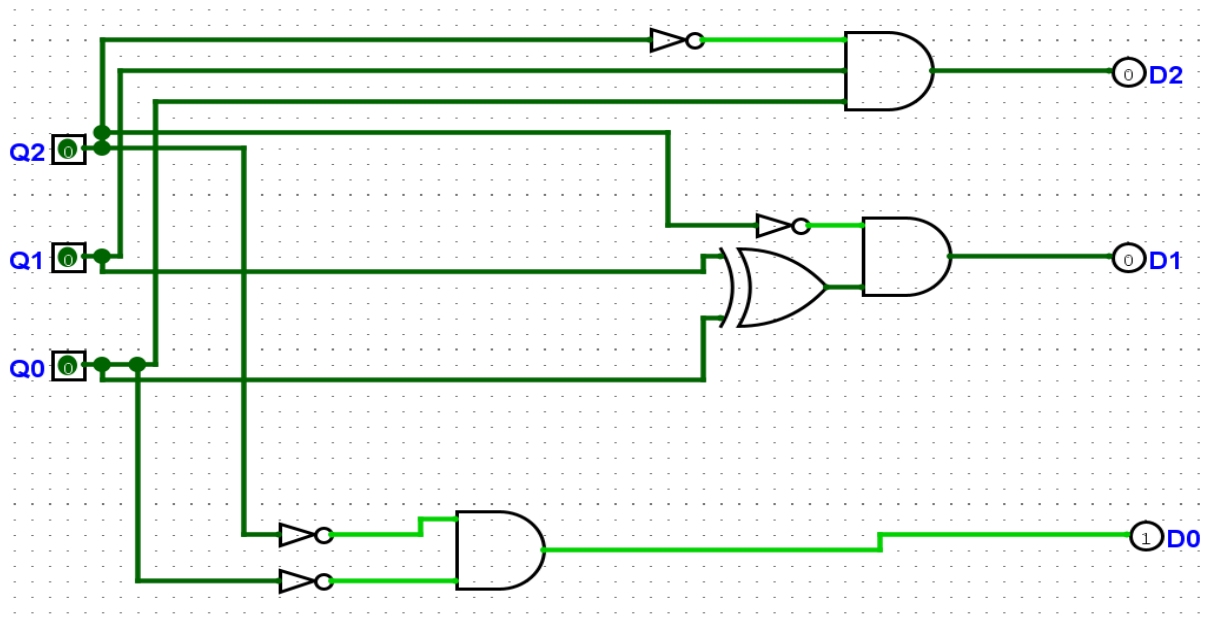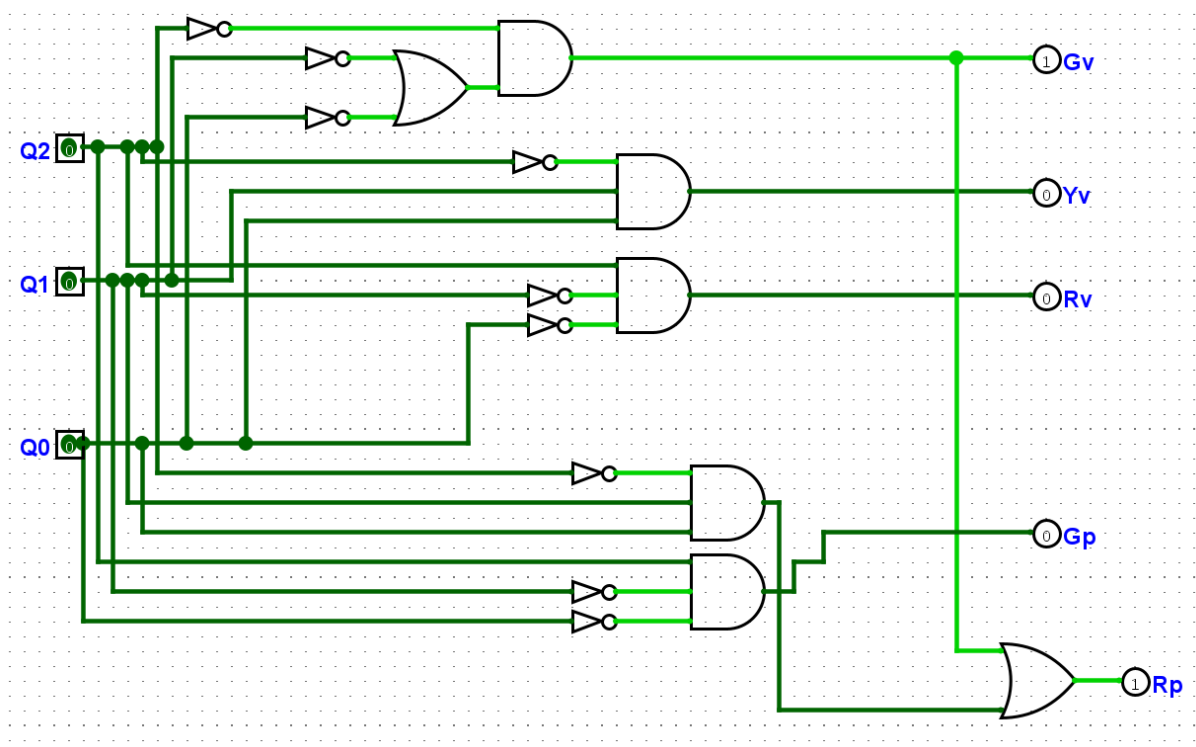
- **The structure of our circuit is as follows:**
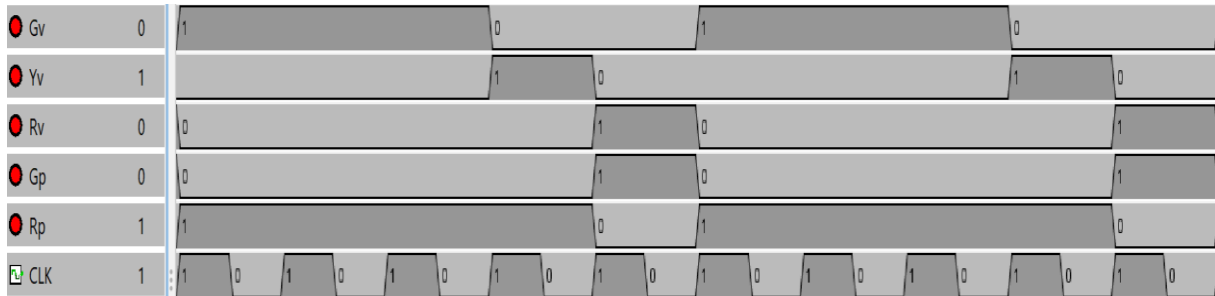
- **The State controller above is designed like this:**

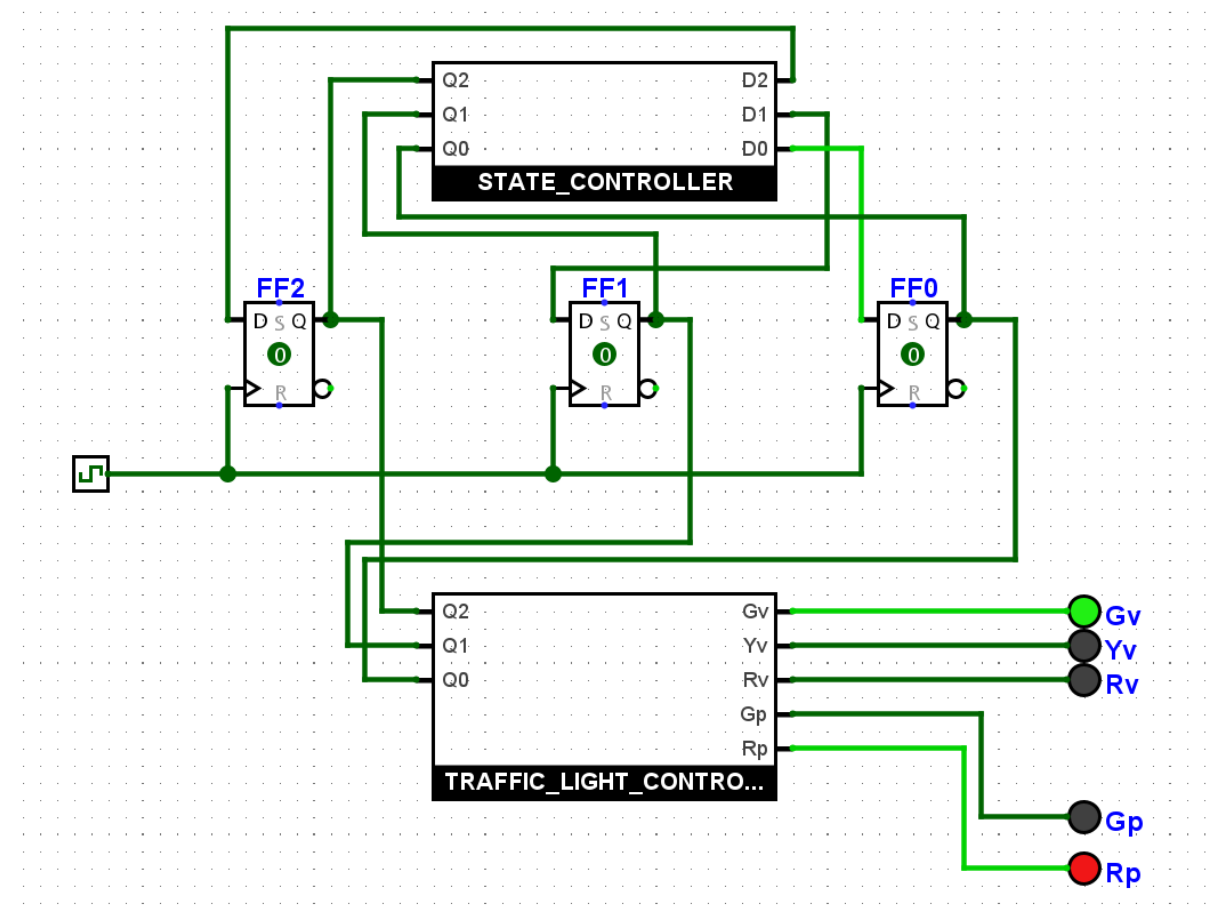- **And the Traffic light controller is designed like this:**

- ## Here are two phases of the Chronogram:

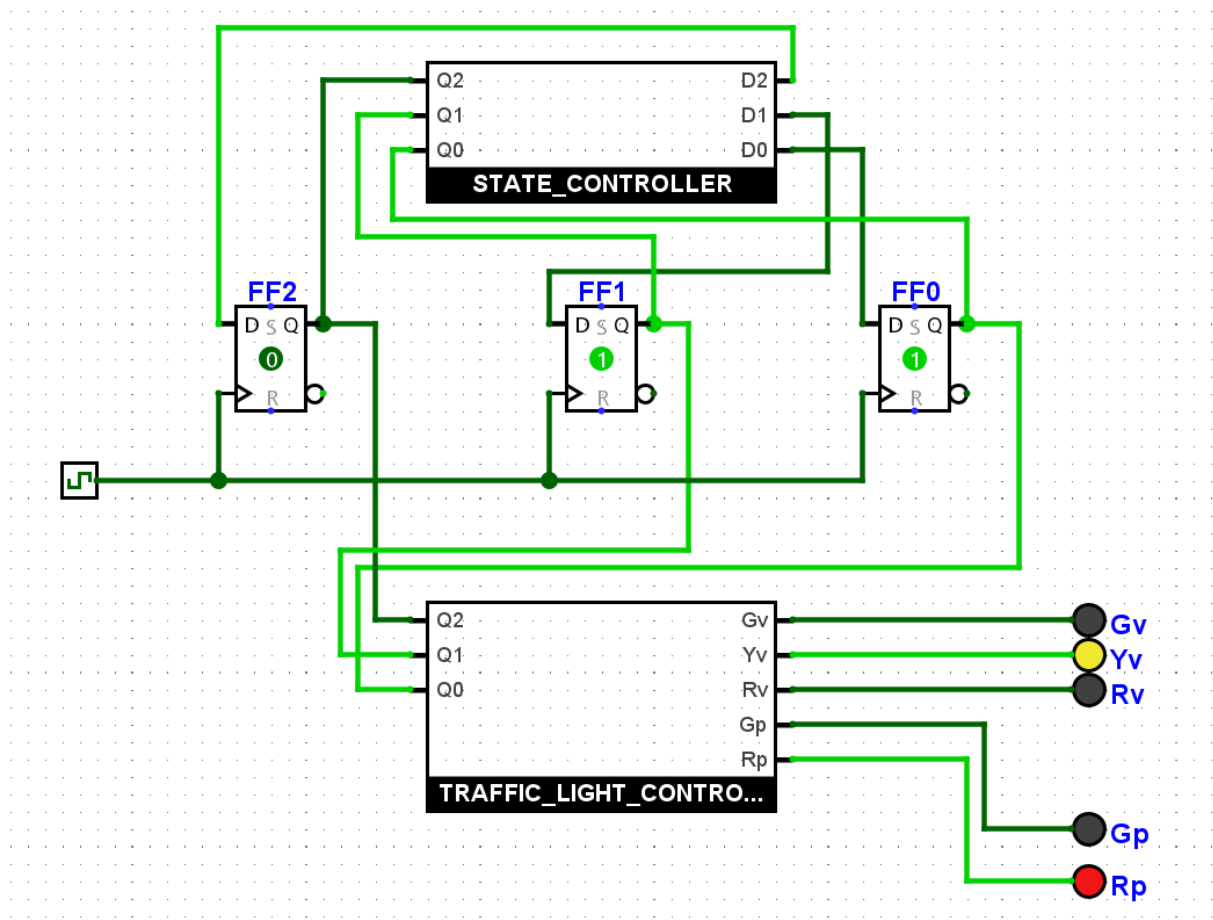|						
🔴 Gv	0	1	0	1	0	
🔴 Yv	1		1	0	1	0
🔴 Rv	0	0	1	0	1	
🔴 Gp	0	0	1	0	1	
🔴 Rp	1	1	0	1	0	
CLK	1	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0				

- ## The three states of the circuit :

Green light for vehicules, and red light for pedestrians:

Yellow light for vehicles, and red light for pedestrians:

And finally, _Red light for vehicles, and green light for pedestrians:_