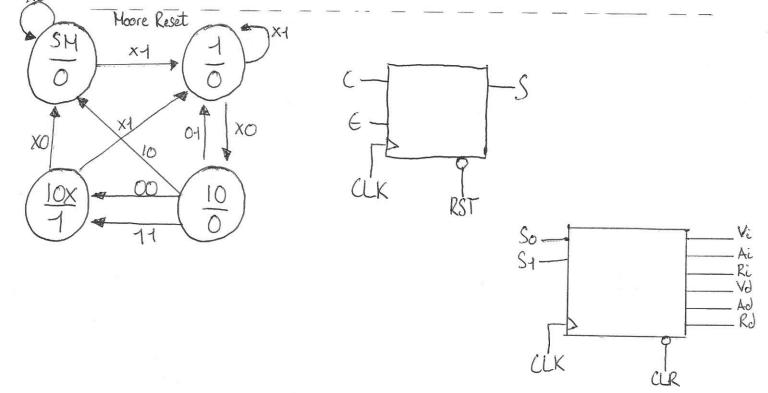
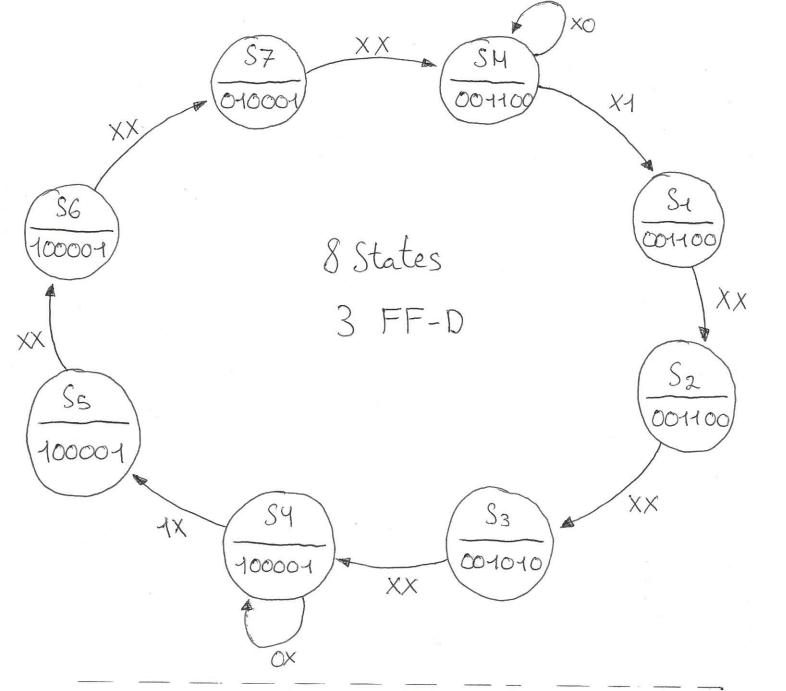


$$Q_{2}Q_{4}$$
 $Q_{3}Q_{6}$
 $Q_{3}Q_{6}$
 $Q_{3}Q_{6}$
 $Q_{3}Q_{6}$
 $Q_{3}Q_{6}$
 $Q_{3}Q_{6}$
 $Q_{3}Q_{6}$
 $Q_{3}Q_{6}$
 Q_{4}
 $Q_{5}Q_{6}$
 $Q_{5}Q_{$

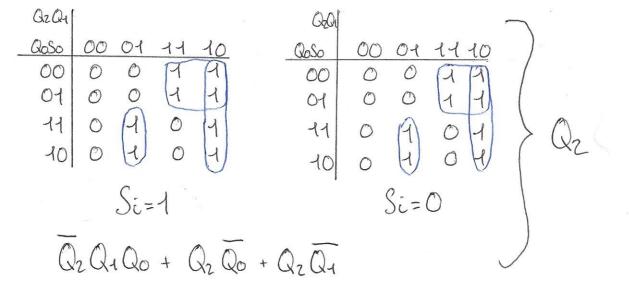




	Q2	Q1	Qo	
SH	0	0	0	001100
St	0	\bigcirc	4	001100
S2	0	4	0	001100
53	0	1	1	001010
54	1	0	0	100001
S5	1	0	1	100001
S6	1	1	0	100001
S7	1	1	4	040004

Qo = OFOQOFOA Q1 = OFFOOFFO Q2 = OFFFFOOO Vi = OOFFFOOO Ai = OFOOOOOO Ri = FOOOOOFFF Vd = FFOOOOOFF Ad = OOOOOFOO

Rd = OFFFF000

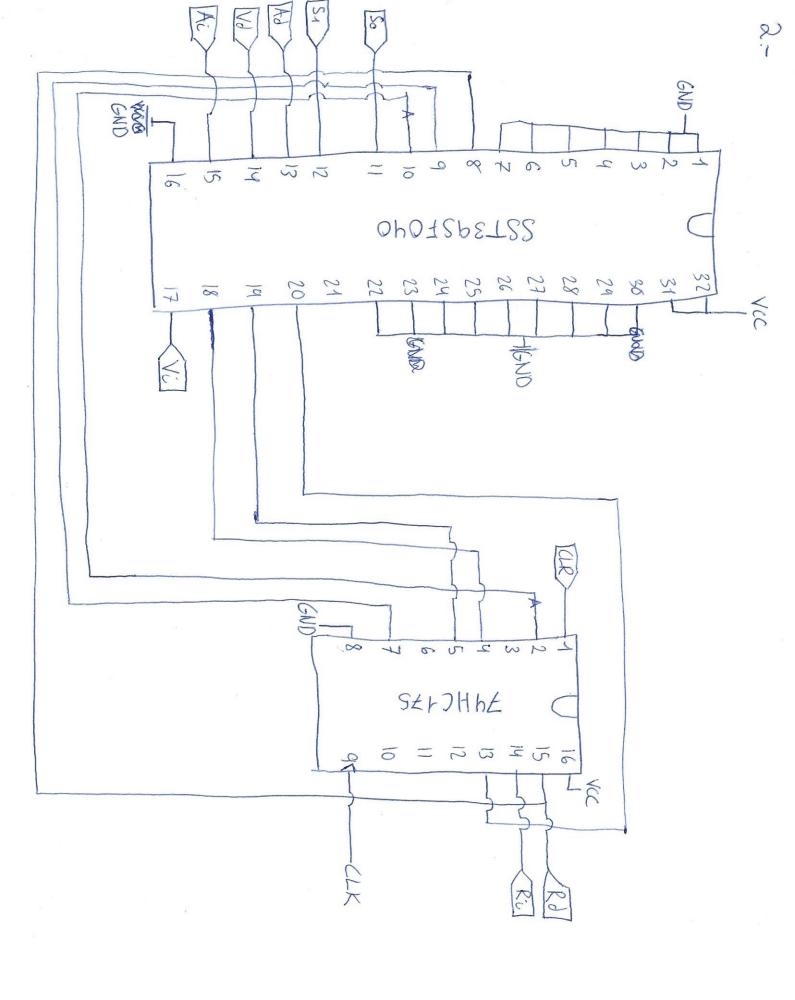


$$Q_0^{n+1} = \overline{Q_2Q_0S_1} + Q_1\overline{Q_0} + Q_2\overline{Q_0S_0}$$

$$Q_1^{n+1} = \overline{Q_1Q_0} + Q_1\overline{Q_0}$$

$$Q_2^{n+1} = \overline{Q_2Q_1Q_0} + Q_2\overline{Q_0} + Q_2\overline{Q_1}$$

$$Q_3^{n+1} = \overline{Q_2Q_1Q_0} + Q_3\overline{Q_0} + Q_3\overline{Q_1}$$



1.3.— First the cars on the right advance. Then So is activated, but nothing happens as the cars are already advancing, until S1 activates. After two clock cycles, the right light goes yellow while the left light turns red. In the next stage, the right light becomes green. This is until So activates again, in which case, after two clock cycles the left light turns yellow as the right one becomes red. Finally, the left light goes red while the right one goes green. This proceess will vary taking into account the values of S0 and S1. If S0 and S1 are active, they will change depending on the traffic lights. If first they are (Red, Green), the cycle will be (Red, Yellow) and then (Green, Red). Then, if first they are (Green, Red), the cycle will be (Yellow, Red) and then (Red, Green).

In the second process, the one that takes place after the first one is over is basically the same. The only thing that changes are whom So and SI activate. Instead of So

The second process starts with (Red, Green). When SI activates and after two clock cycles, the lights term (Red, Yellow) and afterwards (Green, Red). Then, So activates and after two clock cycles they become (Yellow, Red) and Sinally turning into (Red, Green). This process will also vary depending on the values of So and SI