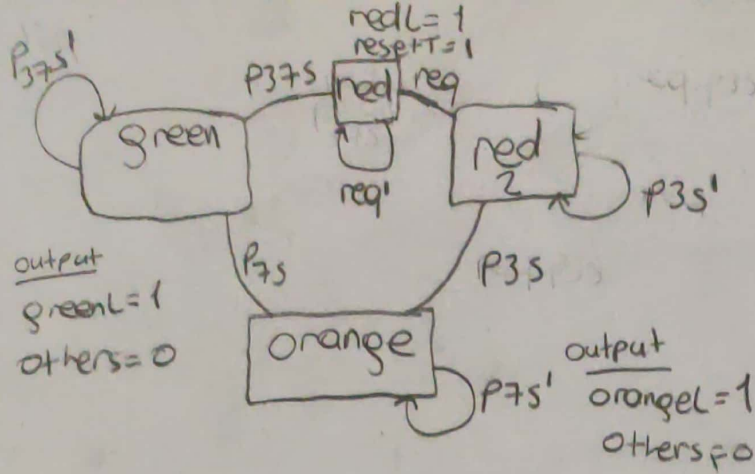


CSE234-LAB5 REPORT

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output
 $\text{redL} = 1$
 $\text{others} = 0$

$S_1 S_0 \rightarrow \text{input}$ $n_1 n_0 \rightarrow \text{output}$

S_1	S_0	req	$P_3 S$	$P_7 S$	$P_{37} S$	resetT	redL	orangeL	greenL	n_1	n_0
0	0	0	x	x	x	1	1	0	0	0	1
0	0	1	x	x	x	1	1	0	0	0	1
0	1	x	0	x	x	0	1	0	0	1	0
0	1	x	1	x	x	0	0	1	0	1	0
1	0	x	x	0	x	0	0	1	0	1	1
1	0	x	x	1	x	0	0	0	1	1	1
1	1	x	x	x	0	0	0	0	0	1	0
1	1	x	x	x	1	0	0	0	0	0	0

resetT:

$S_1 S_0$	req	0	1
00	1		
01			
11			1
10			

$$S_1' S_0' \text{req}' + S_1 S_0 \text{req}$$

$$\text{redL} = S_1'$$

$$\text{orangeL} = S_1 S_0'$$

$$\text{greenL} = S_1 S_0$$

$$n_1: S_1' S_0 P_{35} + S_1 S_0' P_{75}$$

$$+ S_1 S_0' P_{75} + S_1 S_0 P_{375}$$

$$= S_1' S_0 P_{35} + S_1 S_0' P_{375} + S_1 S_0'$$

$S_1 S_0$	$P_{35} P_{75}$	00	01	11	10
00					
01		1	1		
11		1			1
10		1	1	1	1

$$S_1 S_0' + S_1 P_{35} P_{75} + S_0 P_{35}' P_{375}'$$

$$+ S_1' S_0 P_{35}$$

(didn't simplify)

$$n_0: S_1' S_0' \text{req} + S_1' S_0' \text{req}' + S_1 S_0' P_{75}$$

$$+ S_1 S_0 P_{375}$$

$$= S_1' S_0' + S_1 S_0' P_{75} + S_1 S_0 P_{375}$$

$S_1 S_0$	$P_{75} P_{375}$	00	01	11	10
00		1	1	1	1
01					
11					
10					

