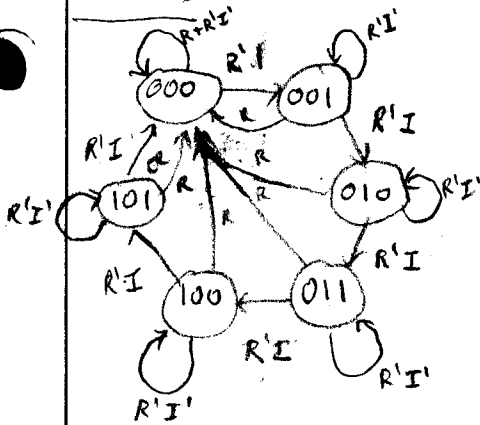


MOD 6



R	I	Q ₂	Q ₁	Q ₀	N ₂	N ₁	N ₀	ce
0	1	0	0	0	0	0	1	
0	1	0	0	1	0	1	0	
0	1	0	1	0	0	1	1	
0	1	0	1	1	1	0	0	
0	1	1	0	0	1	0	1	
0	1	1	0	1	0	0	0	
0	1	1	1	0	—	—	—	
0	1	1	1	1	—	—	—	
0	0	a	b	c	a	b	c	
1	0	—	—	—	0	0	0	
1	1	—	—	—	0	0	0	

Q₂Q₁

0	1
0	0
0	1
1	0
1	1

$$N_2 = Q_2 Q_1' + Q_2 Q_1$$

R'I

0	1
0	0
0	1
1	0
1	1

$$N_1 = Q_2' Q_1' Q_0 + Q_2' Q_1 Q_0$$

Q₀

0	1
0	0
1	0
1	1

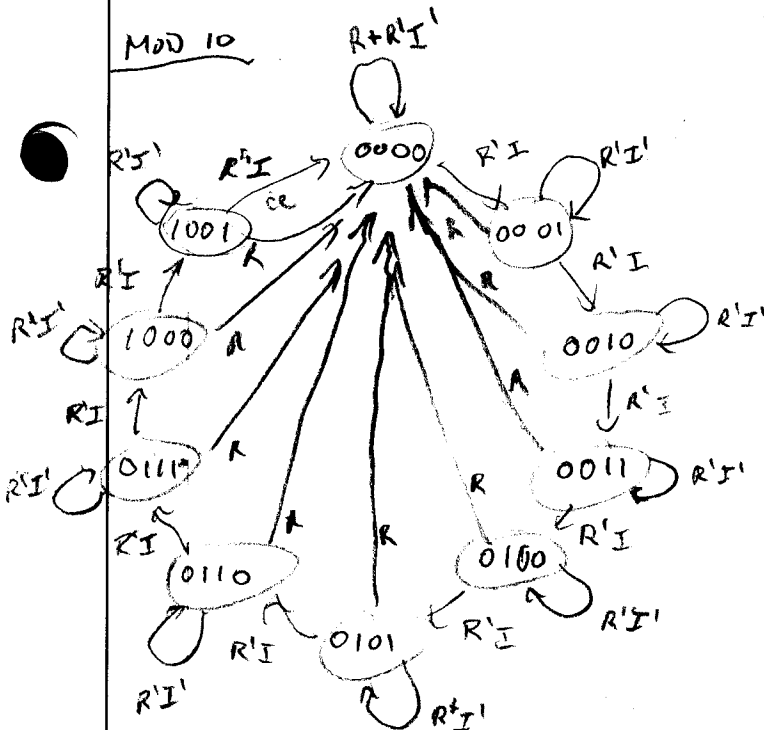
$$N_0 = Q_0$$

$$N_0 =$$

$$ce = Q_2 Q_1' Q_0' R'$$

20x10x10x10x10
120000

MOD 10



R	I	Q ₃	Q ₂	Q ₁	Q ₀	N ₃	N ₂	N ₁	N ₀
0	0	a	b	c	d	a	b	c	d
0	1	0	0	0	0	0	0	0	1
0	1	0	0	0	1	0	0	1	0
0	1	0	0	1	0	0	0	1	1
0	1	0	0	1	1	0	1	0	0
0	1	0	1	0	0	0	1	0	1
0	1	0	1	0	1	0	1	1	0
0	1	0	1	1	0	1	0	0	0
0	1	0	1	1	1	1	0	0	0
0	1	1	0	0	0	1	0	0	1
0	1	1	0	0	1	0	0	0	0
0	1	1	0	1	0	—	—	—	—
0	1	1	0	1	1	—	—	—	—
0	1	1	1	0	0	—	—	—	—
0	1	1	1	0	1	—	—	—	—
0	1	1	1	1	0	—	—	—	—
0	1	1	1	1	1	—	—	—	—
1	0	—	—	—	—	0	0	0	0
1	1	—	—	—	—	0	0	0	0

Q₃Q₂

0	1
0	0
0	1
1	0
1	1

$$N_3 = Q_3 Q_2' + Q_3 Q_2$$

Q₃Q₁

0	1
0	0
0	1
1	0
1	1

$$N_2 = Q_3' Q_2 Q_1 + Q_3 Q_2' Q_1$$

Q₃Q₀

0	1
0	0
1	0
1	1

$$N_1 = Q_3' Q_2' Q_0 + Q_3 Q_2 Q_0$$

Q₂Q₁

0	1
0	0
1	0
1	1

$$N_0 = Q_0$$

$$\frac{50 \text{ MHz}}{10 \text{ Hz}} = 5,000,000 \text{ load count}$$

$$ce = Q_3 Q_2' Q_1' Q_0' R'$$