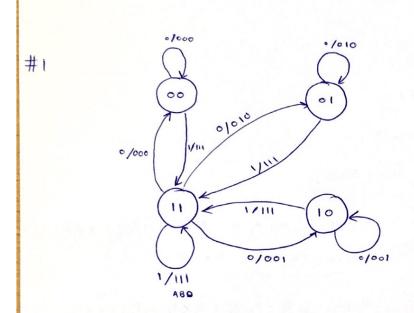
رما درین بعر، ۱۳۵۳ میرد ۲۰۰۰ درستال میرد ۳ میرد ۳ میرد ۳ میرد ۳ میرد ۳ میرد ۲۰۰۰ میرد ۲۰۰ میرد ۲۰۰۰ میرد ۲۰۰ میرد ۲۰۰۰ میرد ۲۰۰۰ میرد ۲۰۰۰ میرد ۲۰۰ میرد ۲۰ میرد ۲۰۰ میرد ۲۰۰ میرد ۲۰ میرد

S1 S2

me -> 1-> con



| _   | C | S, (t) | S2(t) | Silter | 52 (t+1) | A | B  | O |  |
|-----|---|--------|-------|--------|----------|---|----|---|--|
| 0 : | 0 | 0      | 0     | 0      | 0        | 0 | 0  | o |  |
| 15  | 0 | •      | 1     | 0      | 1        | 0 | 1  | 0 |  |
| 2'. | 0 | 1      | 0     | 0      | 1        | 0 | 1  | 0 |  |
| 3 . | 0 | 1      | - 1   | 0      | 1        | 0 |    | • |  |
| 45  | 1 | •      | 0     | t      | 1        | t | t  | 1 |  |
| 51  | 1 | •      | 1     | 1      | 1        | 1 | 1  | 1 |  |
| 6'. | 1 | 1      | 0     | 1      | 1        | ι | ι  | j |  |
| 7:  | 1 | 1      | 1     | 1      | 1        | 1 | +1 | 1 |  |
|     |   |        |       |        |          |   |    |   |  |



| A = C | B=C+S1+S2 |
|-------|-----------|

| 5,52 | 00 | 01 | 11 | 10 |
|------|----|----|----|----|
| 0    |    | -  |    |    |
| 1    | 1  | 1  | 11 | 1  |

D = C

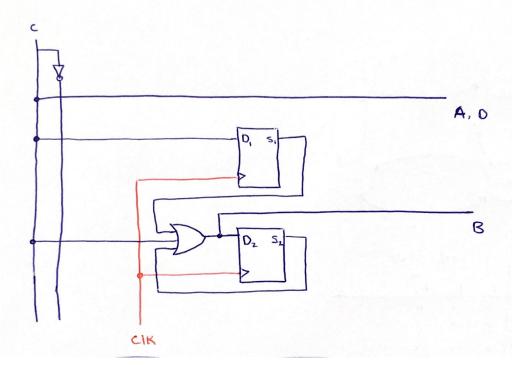
| C | 125 | 00 | 01 | 11 | 10 |
|---|-----|----|----|----|----|
|   | 0   |    |    |    |    |
|   | 1   | 11 | 1  | 1  | 1  |

| s, | (t+1)= | 0, 3 | . c |
|----|--------|------|-----|
|    |        |      |     |

| 5,52 | 00 | 01 | ч | 10 |
|------|----|----|---|----|
| 0    | 0  | 1  | 1 | 1  |
| 1    | 1  | 1  | 1 | 1  |

S2 (t+1) = D2 = C+ S1+ S2

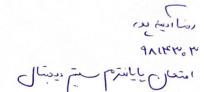


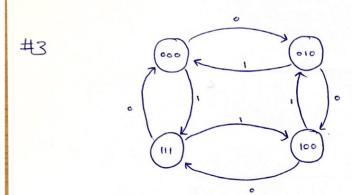


$$\begin{array}{c} \text{Act+1}) = \overline{J_A} \, \overline{A} + \overline{K_A} \, A = \overline{A} \cdot \left( B \times + \overline{B} \, \overline{y} \right) + A \left( \overline{B} \times \overline{y} \right) \\ = \overline{ABX} + \overline{AB} \, \overline{y} + AB + A \overline{X} + A \overline{y} \end{array}$$

$$= \overline{ABX} + \overline{AB} \, \overline{y} + AB + \overline{AB} \, \overline{x} + \overline{AB} \, \overline{y} + \overline{AB} + \overline{AB} \,$$

| in (2 | ut | 1 <sup>3</sup> resn | t state | Wext  | state    | I FF in | puts  | output |
|-------|----|---------------------|---------|-------|----------|---------|-------|--------|
| ×     | 3  | A(t)                | BLEI    | ALtri | 13 (t+1) | JA KA   | JB KB | Z      |
| 0     | 0  | 0                   | 0       | 1     | 0        | 1 0     | 0 0   | 0      |
| 0     | 0  | 0                   | 1       | 0     | 1        | 0 0     | 0 0   | 1      |
| 0     | 0  | •                   | 0       | 1     | 0        | 10      | 0 1   |        |
| 0     | 0  | 1                   | 1       | 1     | 0        | 0 0     | 0 1   |        |
| 0     | 1  | 0                   | ٥       | 0     | 0        | 0 0     | 0 0   | 0      |
| 0     | ı  | 0                   | 1       | 0     | 1        | 0 0     | 0 0   | 0      |
| 0     | 1  | 1                   | ٥       | 1     | 0        | 00      | 0 1   | 0      |
| o     | 1  | 1                   | 1       | 1     | 0        | 0 0     | 0 1   | 0      |
| 1     | 0  | 0                   | 0       | 1     | 1        | 1 1     |       |        |
| 1     | 0  | ۰                   | 1       | 1.    | 0        | 1 0     | 11    | 0      |
| 1     | 0  | 1                   | 0       | 0     | 0        | 1 1     | 0 1   | 0      |
| 1     | 0  | t                   | 1       | •     | 0        | 1 0     | 0 1   | 0      |
| 1     | 1  | 0                   | 0       | 0     | ,        | 0 0     | 10    |        |
| 1     | 1  | 0                   | 1       | 1     | 1        | 1 0     |       | 0      |
| 1     |    | 1                   | 0       |       |          | 00      |       | 0      |
|       |    |                     | 1       | A     | 0        |         | 0 1   | 0      |
| 1     | 1  |                     |         | •     | 0        | 10      | 0 1   | 0      |
|       |    |                     | - 1     |       |          |         |       |        |





|     | Pre | ant s | tate | 1   |      | wext state |        |  |
|-----|-----|-------|------|-----|------|------------|--------|--|
|     | DIR | Az    | A:   | A.  | Az   | A.         | A .    |  |
| 0 : | 0   | 0     | 0    | .0) | 0    | 1          | •      |  |
| 1;  | 0   | 0     | 0    | •   | 0    | 0          | 0      |  |
| 2'. | 0   | 0     | 1    | 0   | 1    | •          | •      |  |
| 3!  | 0   | 0     | 1    | 1   | 0    | 0          | •      |  |
| 4:  | 0   | 1     | 0    | 0   | 1    | t          | 1      |  |
| 5:  | 0   | 1     | 0    | 1   | 0    | 0          | •      |  |
| 6:  | 0   |       | 1    | 0   | X(I) | 0          | 0      |  |
| 7:  | 0   | -     | 1    | v   | 0    | 0          | 0      |  |
| 81  |     |       | 0    | 0)  | ,    | 1          | 1      |  |
|     |     | 0     | 0    |     | X(I) | X(I)       | XOI    |  |
| ٩:  | 1   |       | 1    | 0)  |      |            | 0      |  |
| 10  |     | 0     |      |     |      |            |        |  |
| 11  | . 1 | 0     | 1    | (   | X(1) | 0          | 0      |  |
| 12  |     | 1     | .0   | o)  | 0    | 1          | O      |  |
| 13  |     | 1     | 0    | í   | XC)  | Xu         | ) X(1) |  |
| 14  | : 1 | 1     | - 1  | 0   | 0    | 0          | 0      |  |
|     | : 1 | 1     | 1    | Î   | 1    | 0          | 0      |  |
|     |     |       |      |     | 1    | ,          |        |  |

