

14/2/19

CA

A			A	
	A			A
		A		

	B			B
			B	
B		B		

$$FL_{AA} = (3, 0)$$

$$FL_{AB} = (2, 1, 0)$$

↓
 [Shift \odot , \therefore A came first, then \odot]
 we check whether B can enter]

$$FL_{BA} = (4, 2, 1, 0) \text{ [Shift A]}$$

$$FL_{BB} = (3, 2, 0)$$

$$C_{AA} = 1001$$

$$C_{AB} = 0111$$

$$C_{BA} = 10111$$

$$C_{BB} = 1101$$

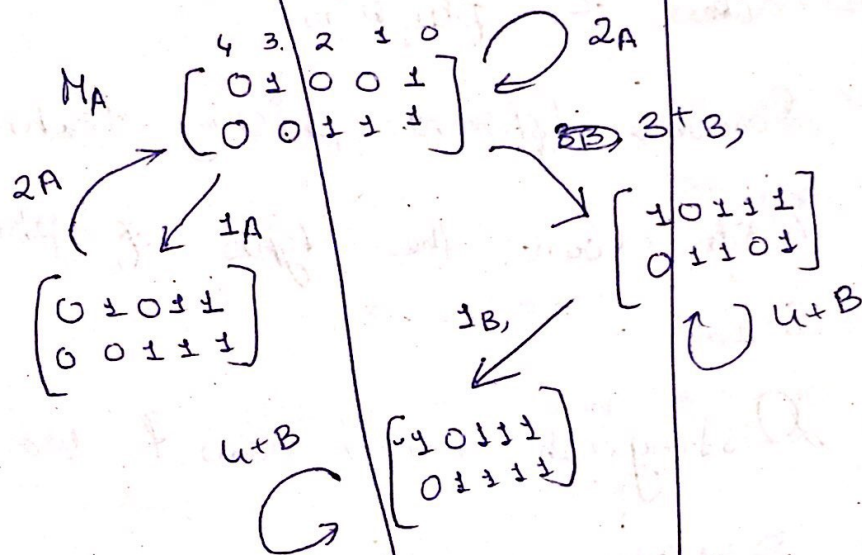
$$M_B = \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}$$

$$M_A = \begin{bmatrix} 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 1 & 1 \end{bmatrix}$$

↑
 Starting with A

If we want to insert A,
 Shift according to CAA and
 OR with M_A

$$M_A = \begin{array}{r} 00010 \\ \text{OR } 01001 \\ \hline 01011 \end{array} \qquad \begin{array}{r} 00001 \\ \text{OR } 00111 \\ \hline 00111 \end{array}$$



$$\begin{array}{r} 00001 \\ \text{OR } 01001 \\ \hline 01001 \\ \\ 00001 \\ \text{OR } 01001 \\ \hline 01001 \end{array} \qquad \begin{array}{r} 00101 \\ 10111 \\ \hline 10111 \\ \\ \text{OR } 00000 \\ 00111 \\ \hline 00111 \\ \\ 00000 \\ 01101 \\ \hline 01101 \end{array}$$