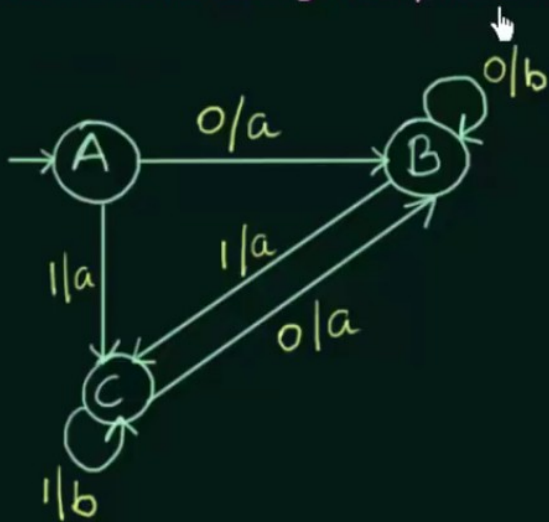


# L-17 Conversion of Mealy Machine to Moore Machine -2

## Conversion of Mealy Machine to Moore Machine

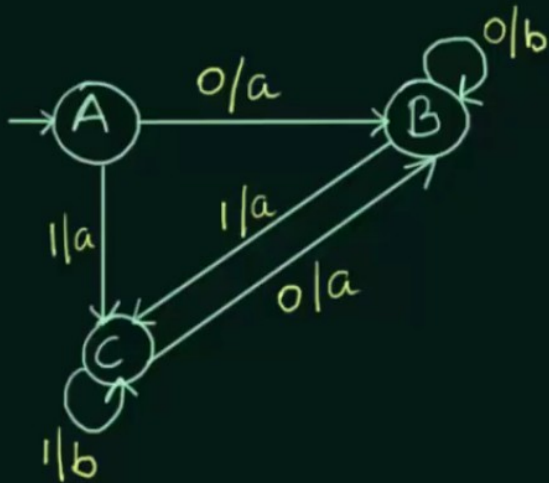
Convert the following Mealy Machine to its equivalent Moore Machine



## Conversion of Mealy Machine to Moore Machine

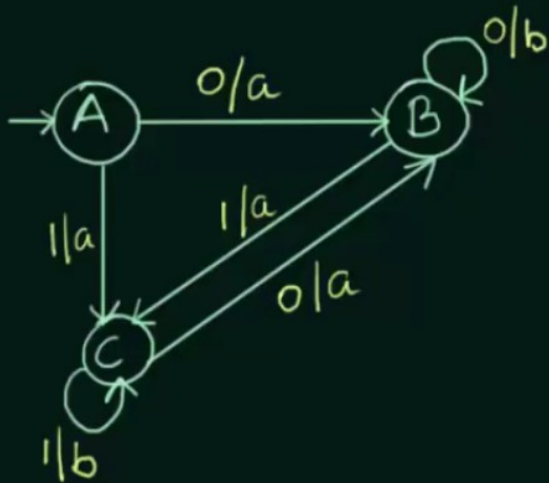
Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine



Moore Machine

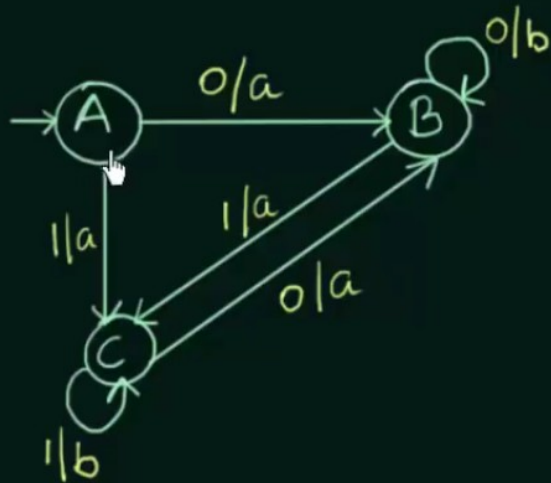
$$\Sigma = \{0, 1\}$$

$$\Delta = \{a, b\}$$

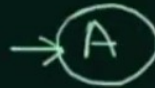
## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



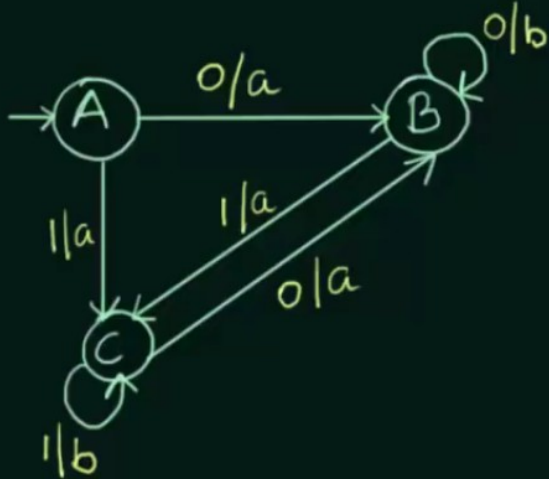
Moore Machine



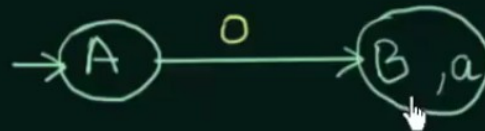
## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



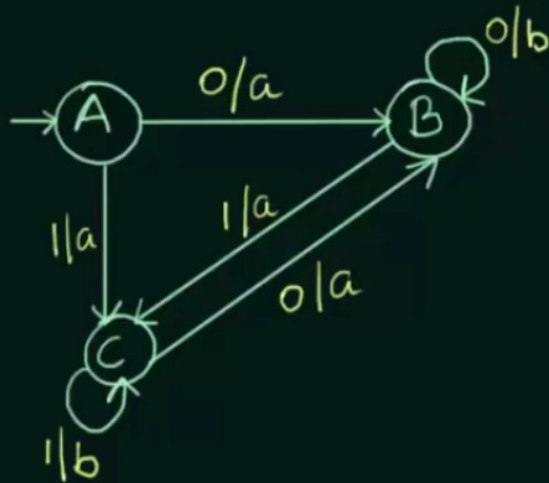
Moore Machine



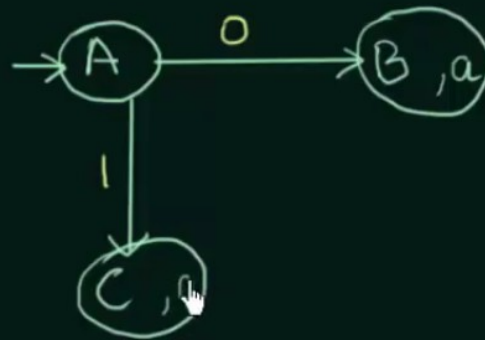
## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



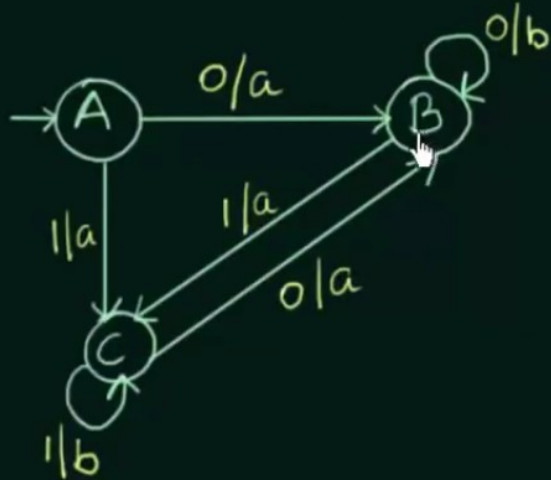
Moore Machine



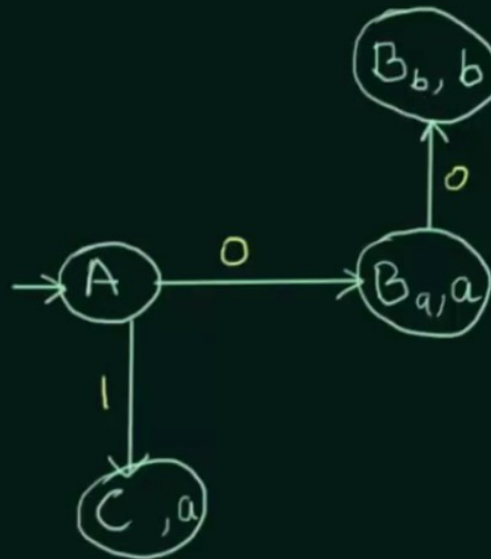
## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



Moore Machine

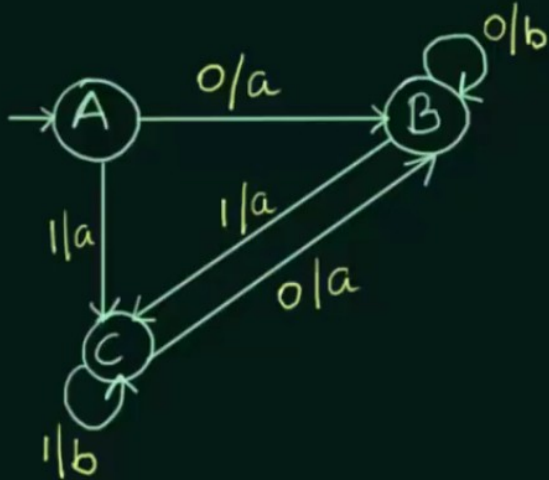




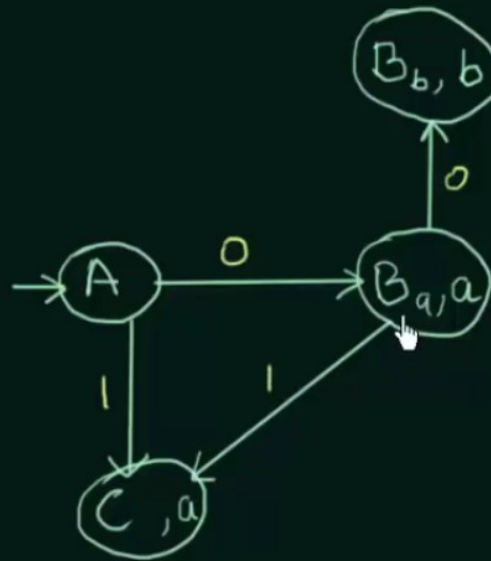
## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
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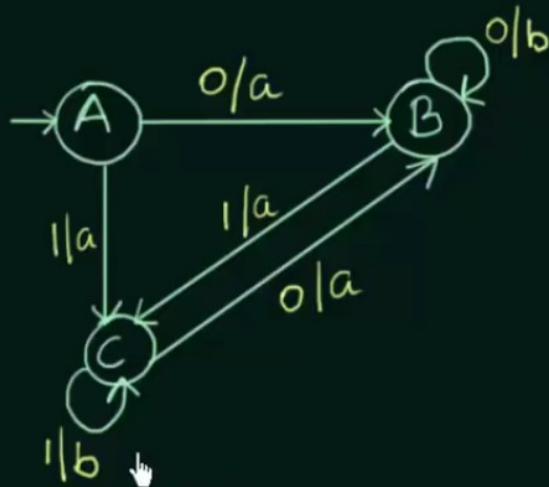
Moore Machine



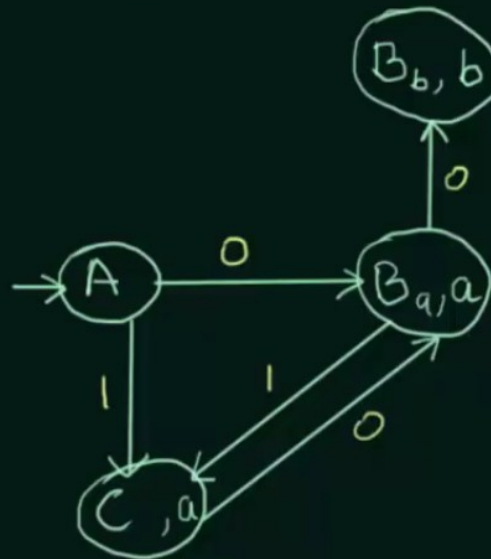
## Conversion of Mealy Machine to Moore Machine

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$$\Sigma = \{0, 1\}$$
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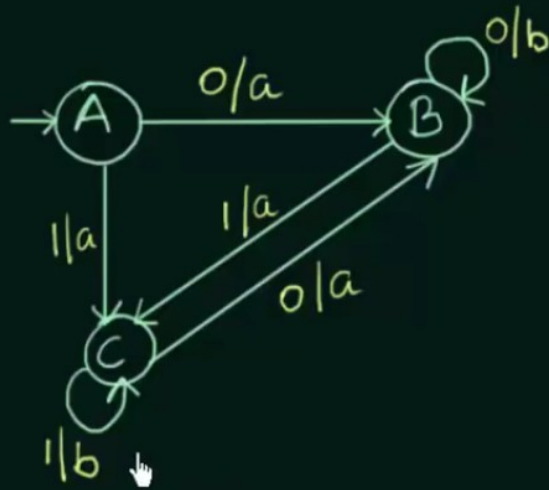
Moore Machine



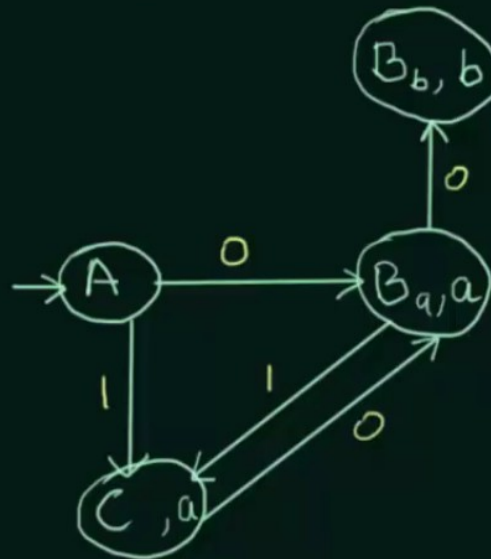
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Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
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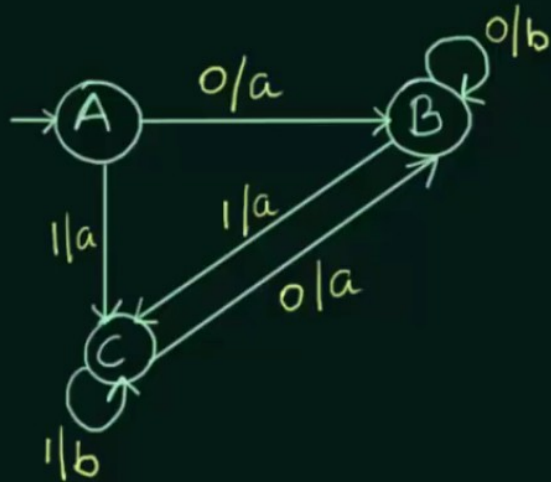
Moore Machine



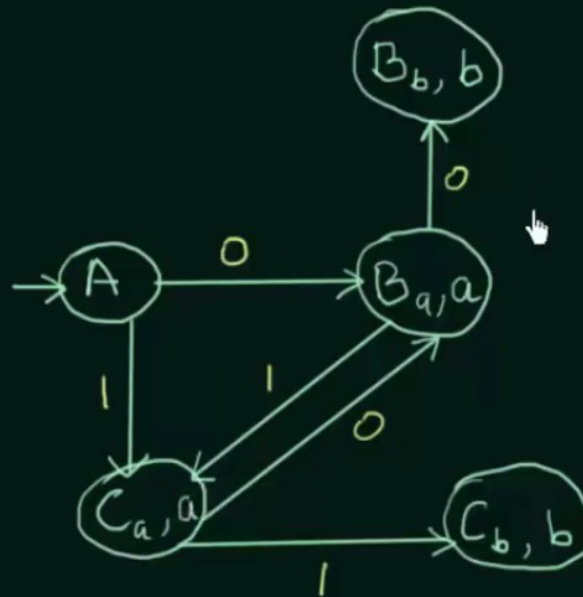
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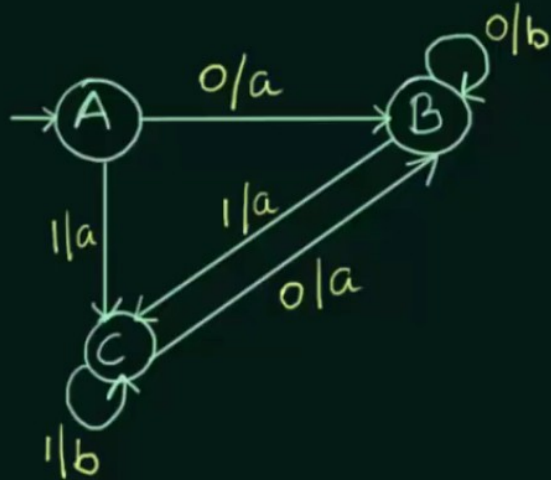
Moore Machine



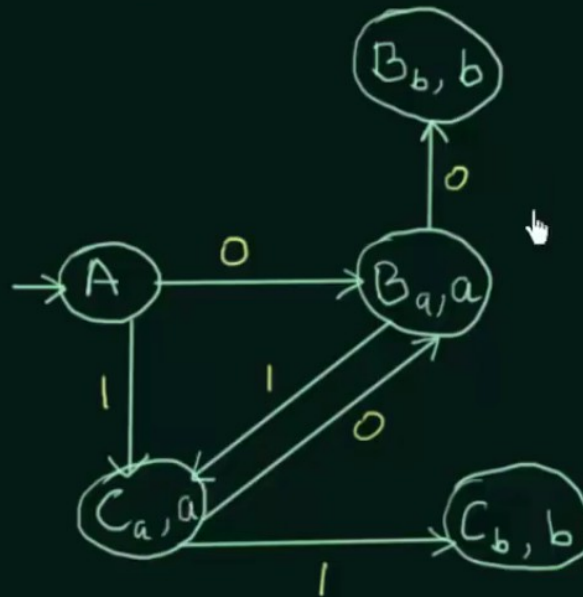
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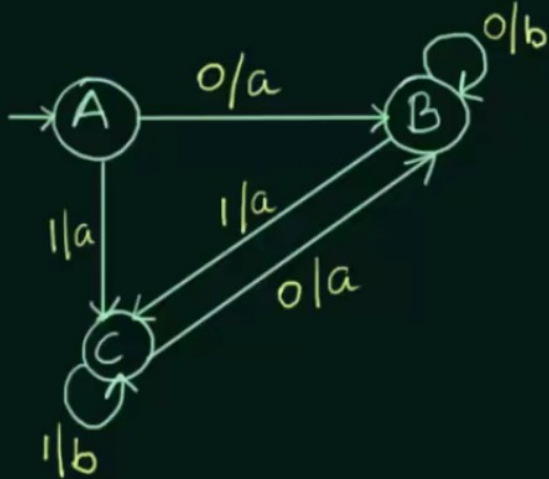
Moore Machine



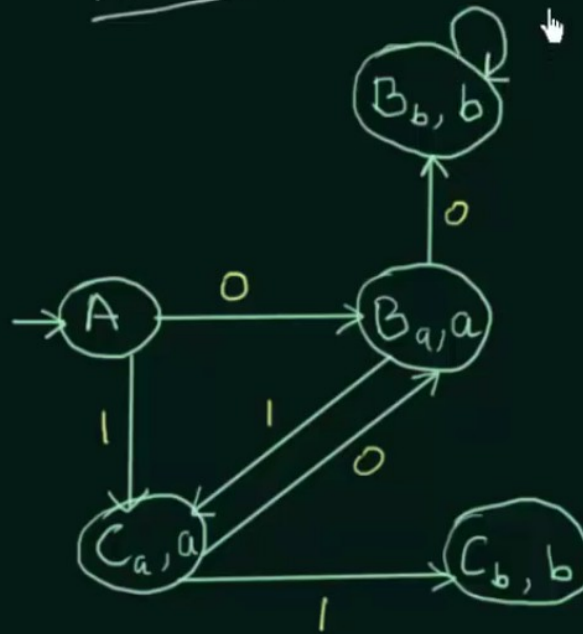
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$$\Sigma = \{0, 1\}$$
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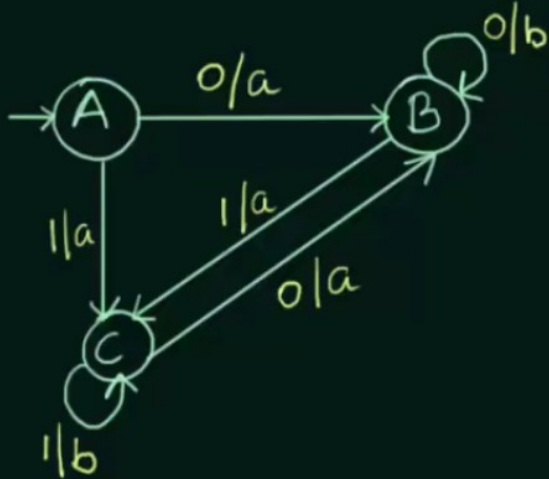
Moore Machine



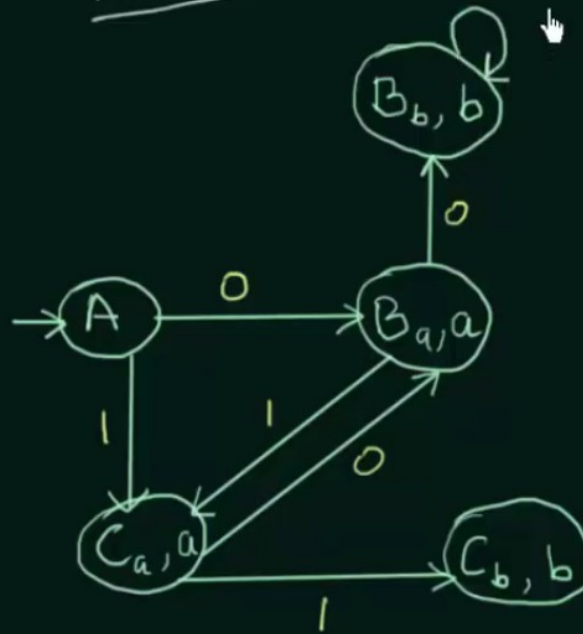
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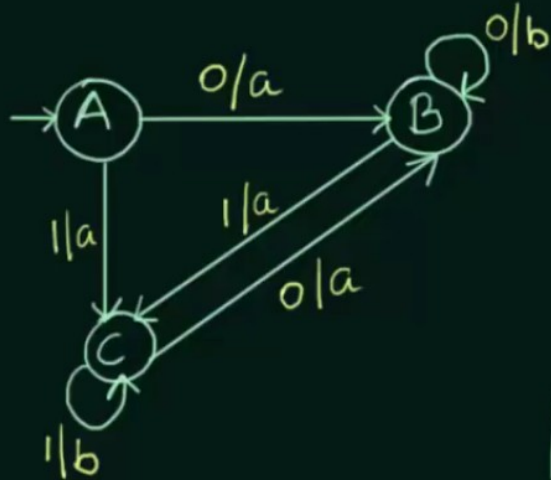
Moore Machine



## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



Moore Machine

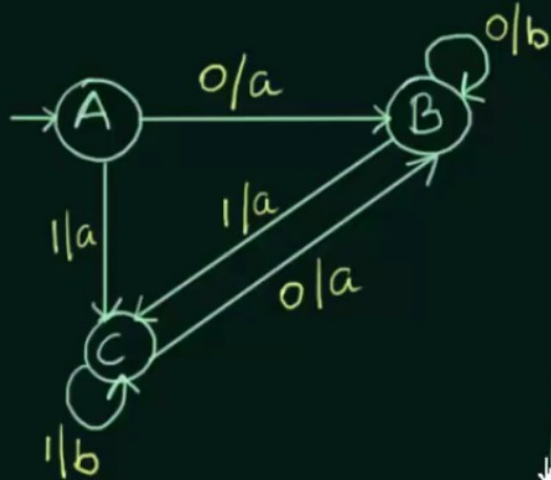




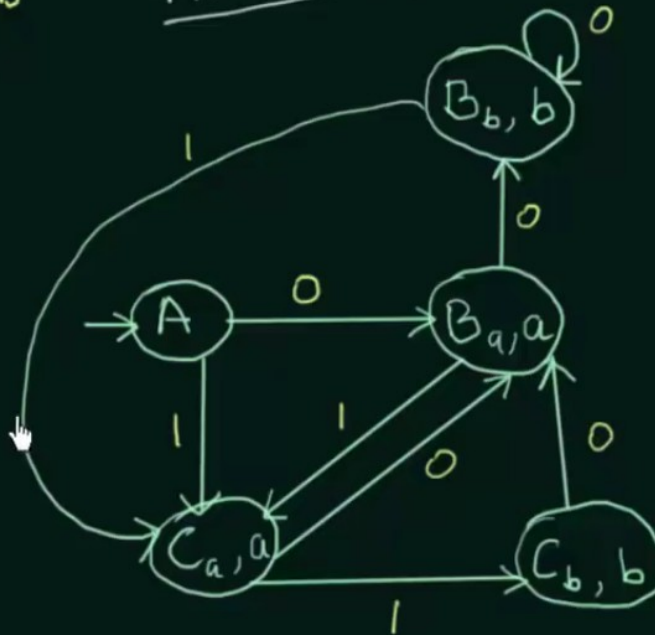
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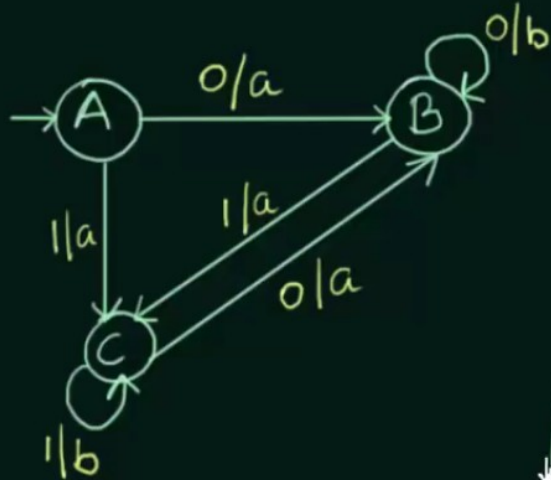
Moore Machine



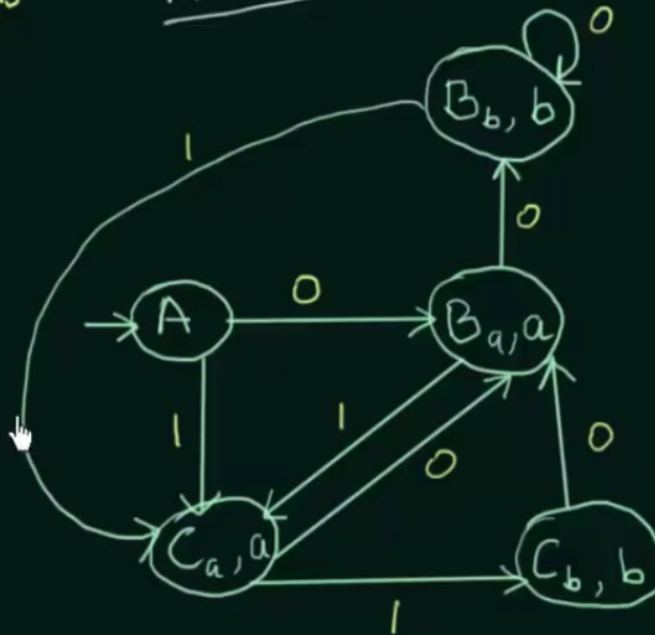
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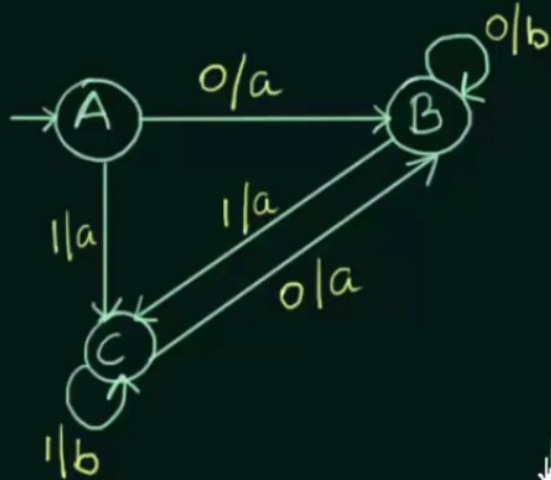
Moore Machine



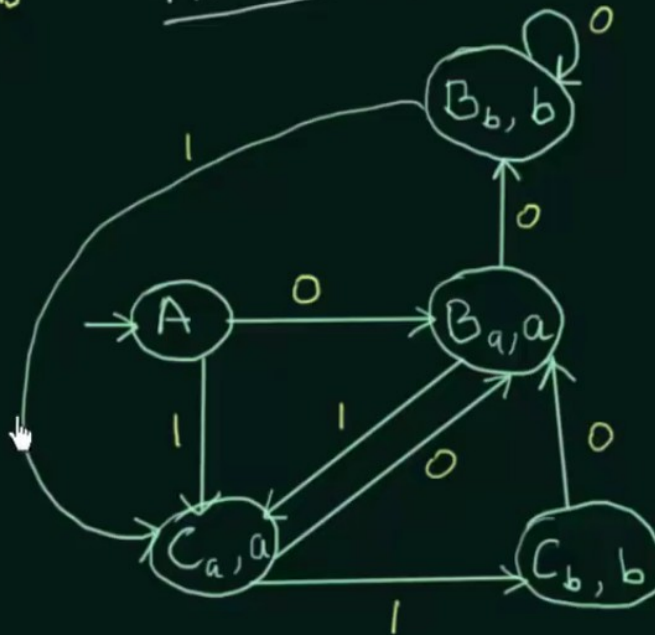
## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



Moore Machine

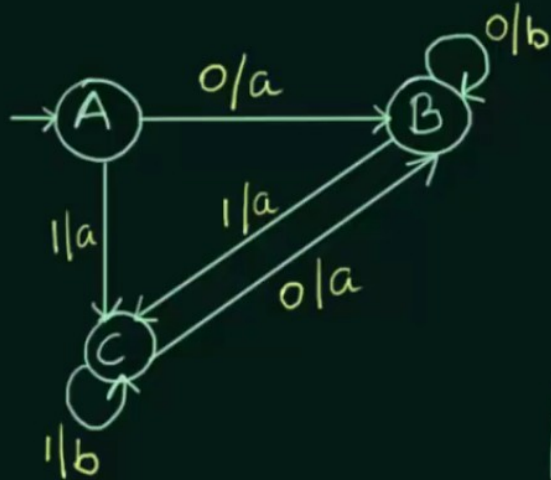


## Conversion of Mealy Machine to Moore Machine

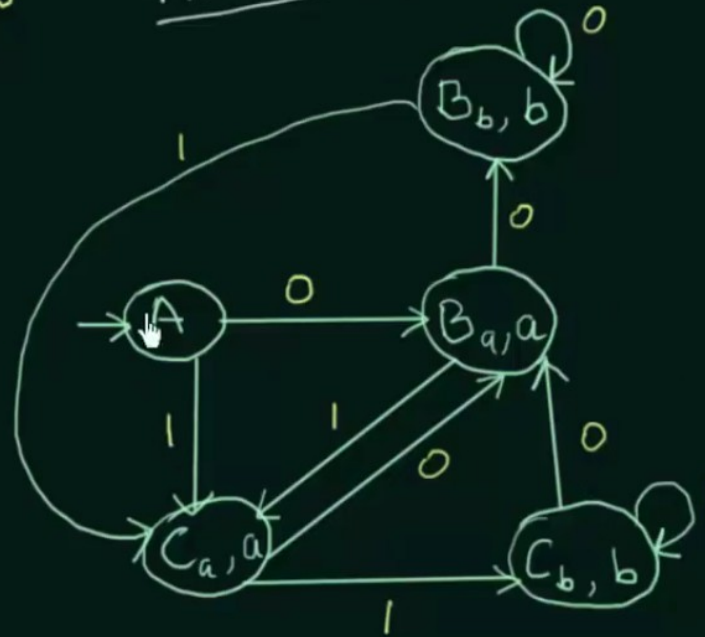
Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$

$$\Delta = \{a, b\}$$



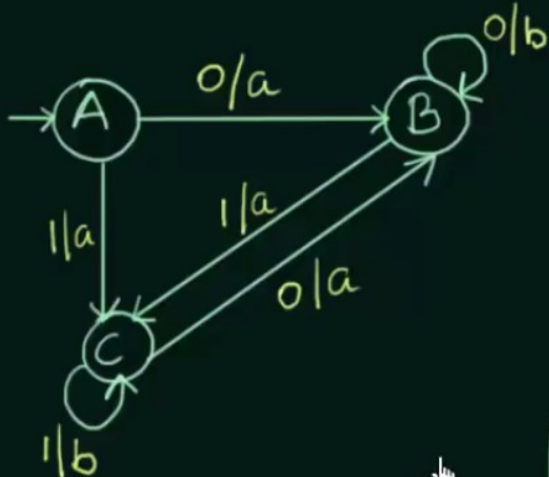
Moore Machine



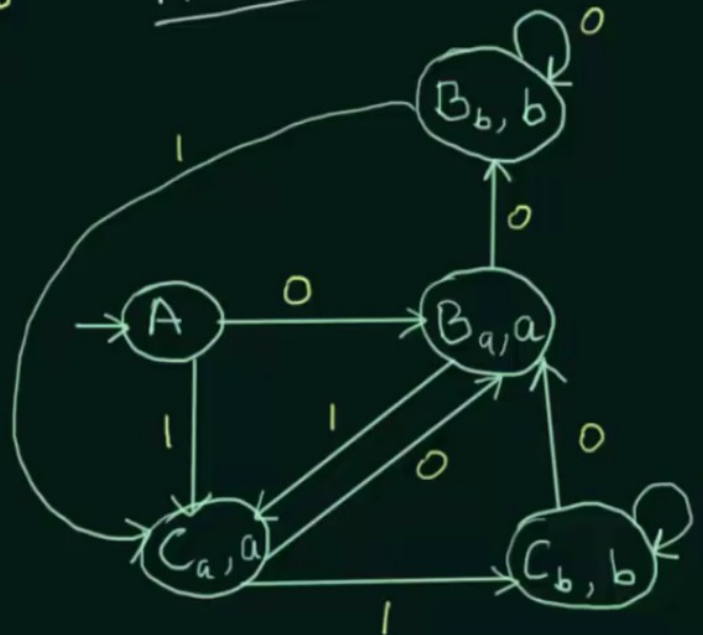
## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



Moore Machine

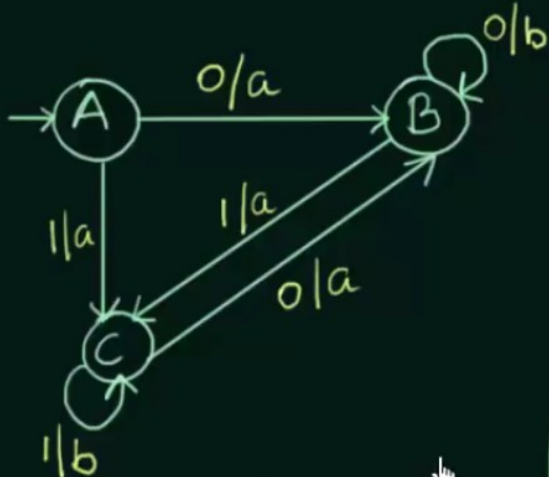


Moore  $\rightarrow$  Mealy  $\Rightarrow$  No. of states were same  
Mealy  $\rightarrow$  Moore  $\Rightarrow$  No. of states increased

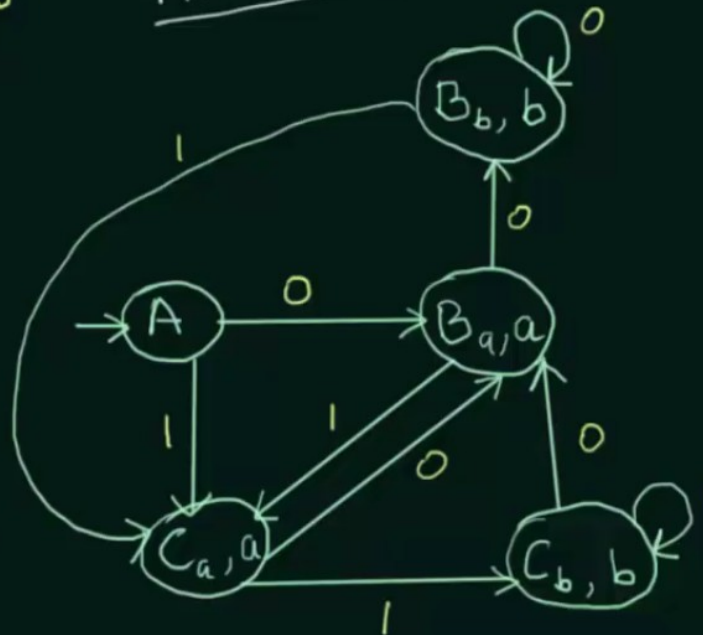
## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

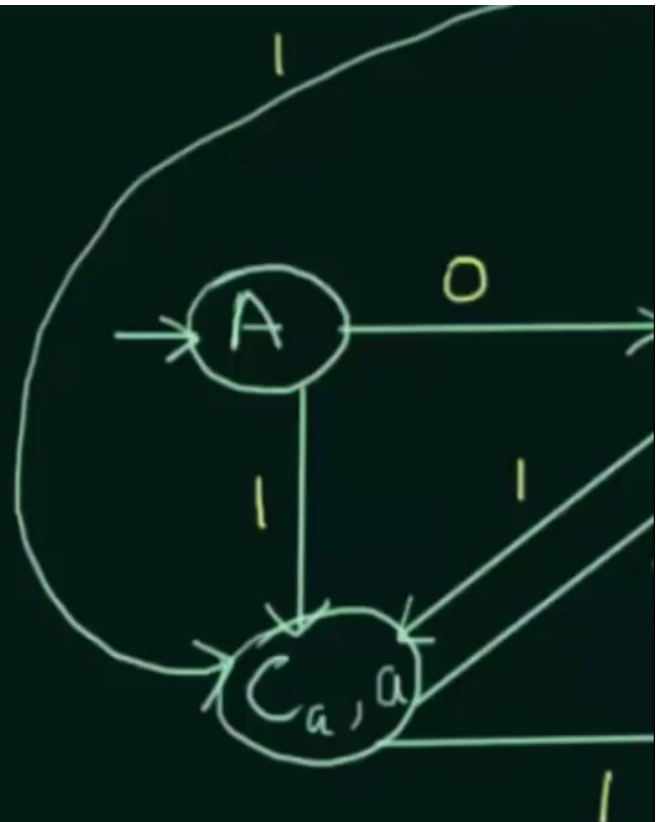
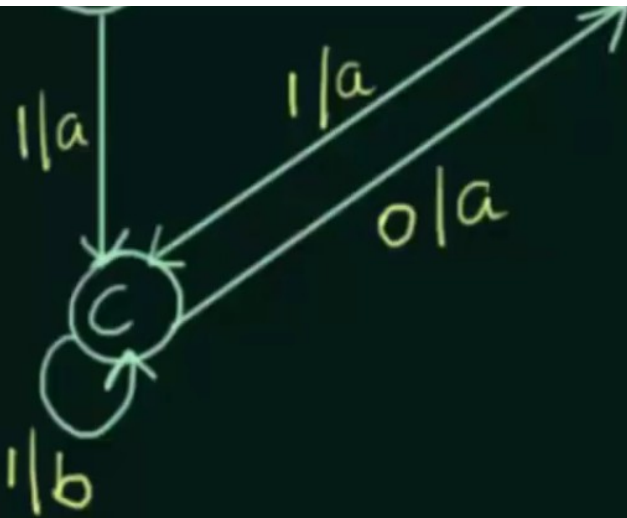
$$\Sigma = \{0, 1\}$$
$$\Delta = \{a, b\}$$



Moore Machine

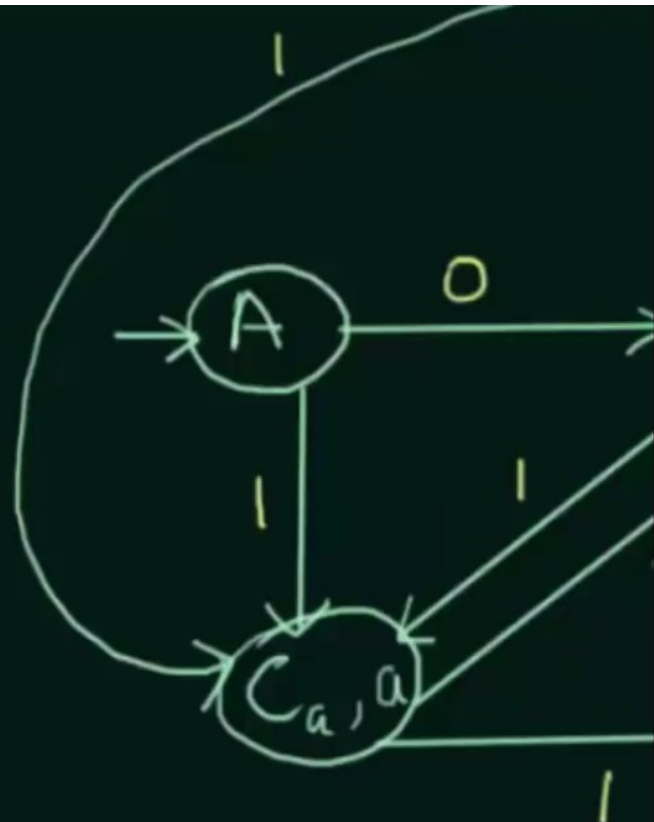
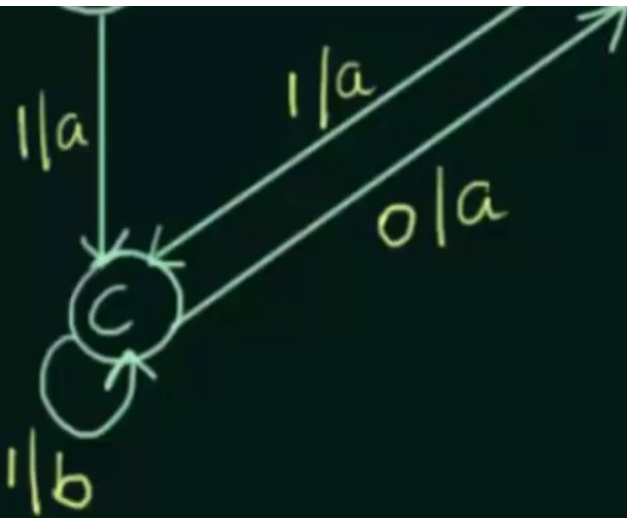


Moore  $\rightarrow$  Mealy  $\Rightarrow$  No. of states were same  
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Moore  $\rightarrow$  Mealy  $\Rightarrow$  No. of states were same  
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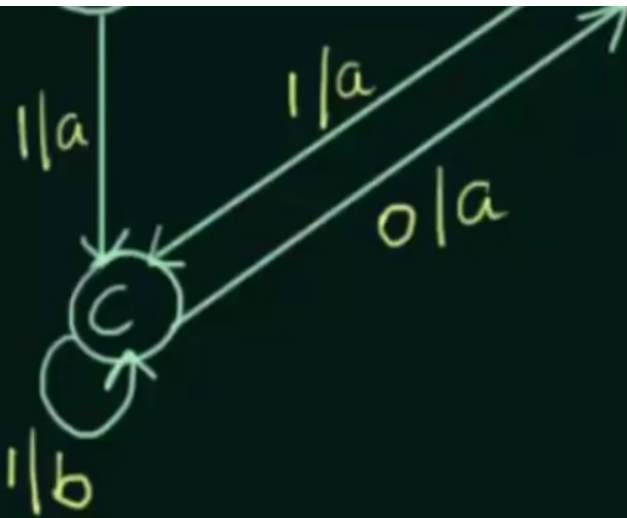
$\downarrow$   
 $n$  and  $p$   
 $\downarrow$   $\downarrow$   
 states outputs



Moore  $\rightarrow$  Mealy  $\Rightarrow$  No. of states were same  
 Mealy  $\rightarrow$  Moore  $\Rightarrow$  No. of states increased

$\downarrow$   
 $n$  and  $p$   
 $\downarrow$   $\downarrow$   
 states outputs





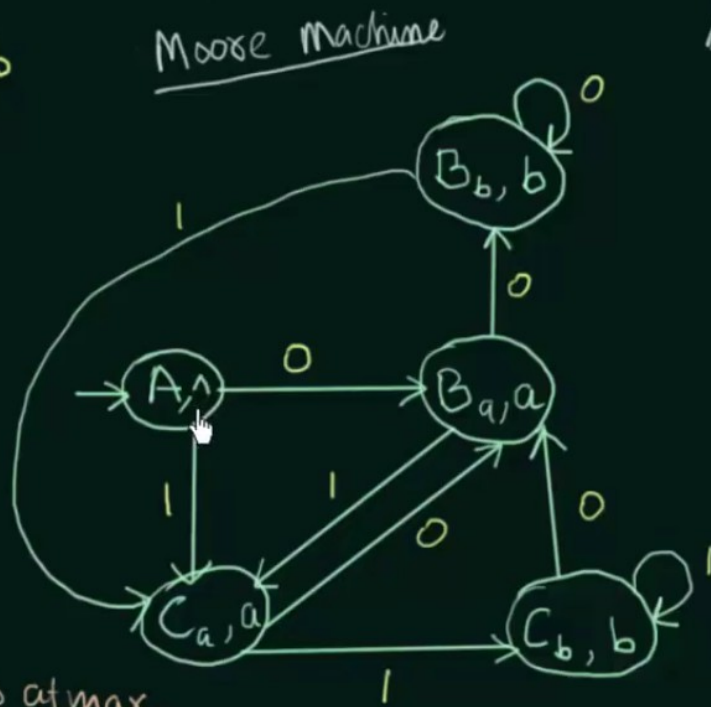
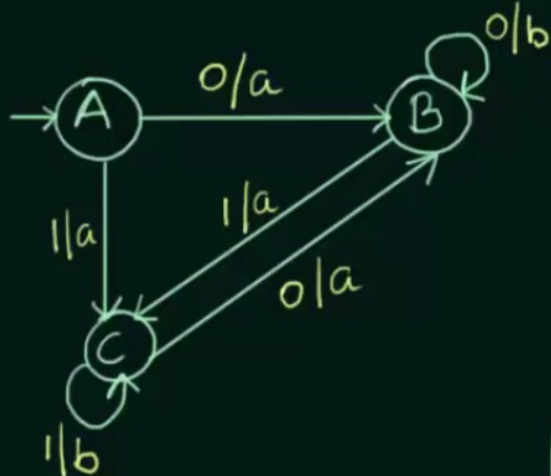
Moore  $\rightarrow$  Mealy  $\Rightarrow$  No. of states were same  
 Mealy  $\rightarrow$  Moore  $\Rightarrow$  No. of states increased

$\downarrow$   
 $n$  and  $y$   $\Rightarrow$   $(n \times y)$  no. of states at max.  
 $\downarrow$   $\downarrow$   
 states outputs

## Conversion of Mealy Machine to Moore Machine

Convert the following Mealy Machine to its equivalent Moore Machine

$\Sigma = \{0, 1\}$   
 $\Delta = \{a, b\}$



Moore  $\rightarrow$  Mealy  $\Rightarrow$  No. of states were same  
 Mealy  $\rightarrow$  Moore  $\Rightarrow$  No. of states increased

$\downarrow$   
 $\frac{n \text{ and } y}{\downarrow \text{ states } \downarrow \text{ outputs}} \Rightarrow (nxy) \text{ no. of states at max.}$

• **Questions????**