

# L-15 Construction of Melay machine-1

## Construction of Mealy Machine

Ex-1) Construct a Mealy Machine that produces the 1's Complement of any binary input string.



## Construction of Mealy Machine

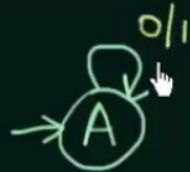
Ex-1) Construct a Mealy Machine that produces the 1's Complement of any binary input string.

10100



## Construction of Mealy Machine

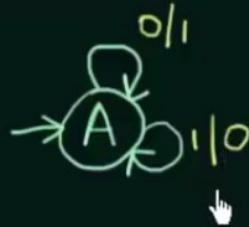
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10100  
01011

## Construction of Mealy Machine

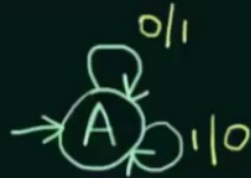
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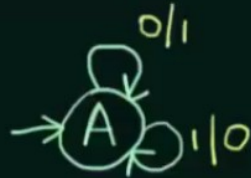
10100  
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Ex-2) Construct a Mealy Machine that prints 'a' whenever the sequence '01' is encountered in any input binary string.



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10100  
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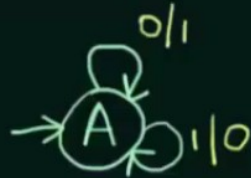
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$\Sigma = \{0, 1\}$



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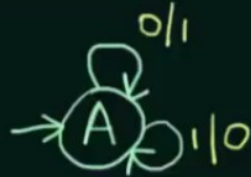
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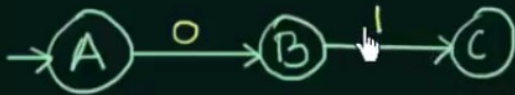
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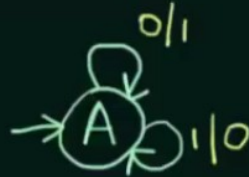
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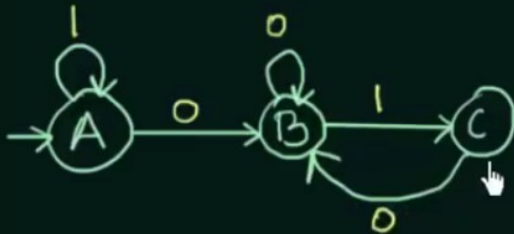
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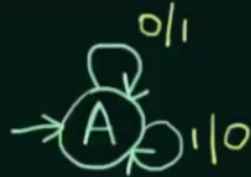
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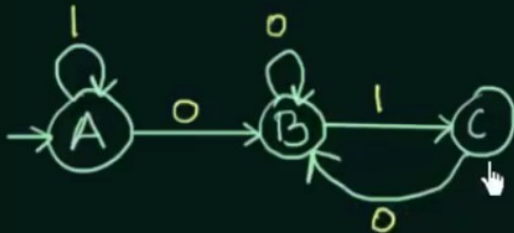
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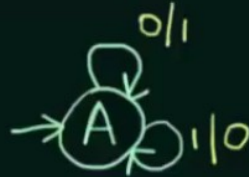
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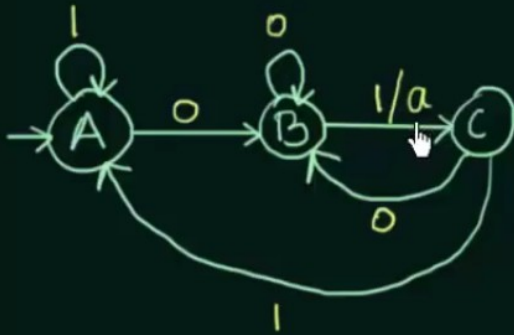
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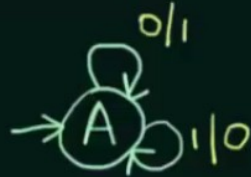
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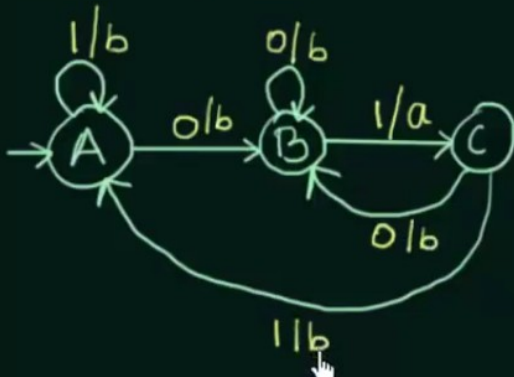
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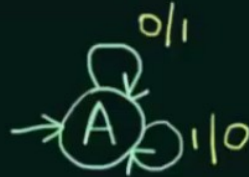
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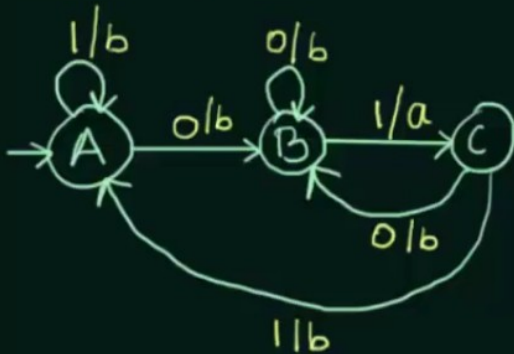
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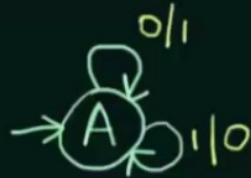


0110  
ba<sup>~</sup>bb



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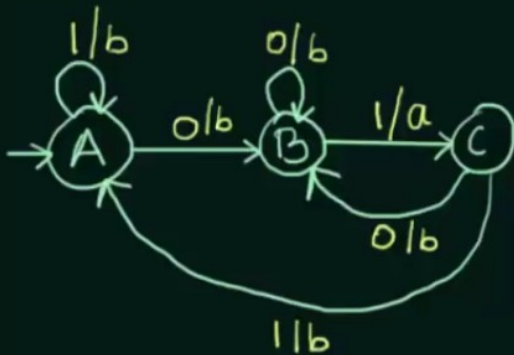
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0110  
b a b b



1000  
b b b b

• **Questions????**