L7-NFA-Example-2

NFA - Example-2

L = { Set of all strings that start with 0 }

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$$= \{ 0, 00, 01, 000, \ldots \}$$

$$\text{Ⓐ}$$
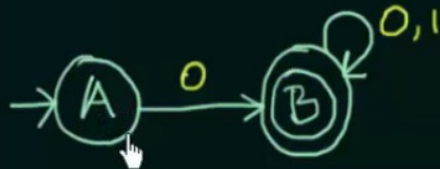
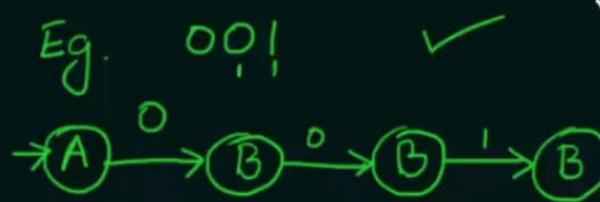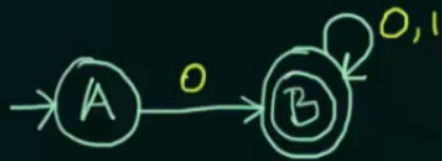L = { Set of all strings that start with 0 }

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NFA - Example-2

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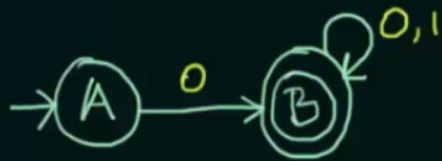
$$= \{ 0, 00, 01, 000, \quad \cdots \}$$

Eg.   001   ✓

NFA - Example-2

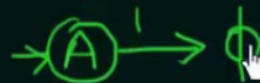L = { Set of all strings that start with 0 }

$$= \{ 0, 00, 01, 000, \cdots \}$$

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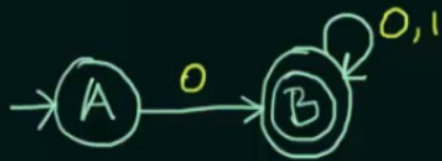
$$= \{ 0, 00, 01, 000, \cdots \}$$

Eg. 001 ✓
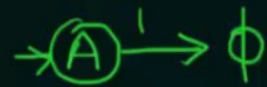
Eg. 101 X

Dead configuration

>> Construct a NFA that accepts sets of all strings over {0,1} of length 2

Eg. 101 X

$\rightarrow$(A) $\xrightarrow{1}$ φ   Dead configuration

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Eg. 101 X

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>> Construct a NFA that accepts sets of all strings over {0,1} of length 2
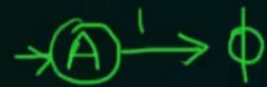
Eg. 101   X

$$\rightarrow (A) \xrightarrow{\;1\;} \phi \qquad Dead \;\; configuration$$

>> Construct a NFA that accepts sets of all strings over {0,1} of length 2

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

Eg. 101 X

→(A)—$\xrightarrow{1}$→ φ   Dead configuration

>> Construct a NFA that accepts sets of all strings over {0,1} of length 2

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

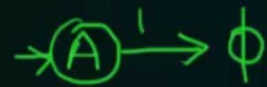$L = \{00, 01, 10, 11\}$

$$Eg. \quad 101 \quad X$$

$$\rightarrow (A) \xrightarrow{1} \phi$$

Dead configuration

>> Construct a NFA that accepts sets of all strings over {0,1} of length 2
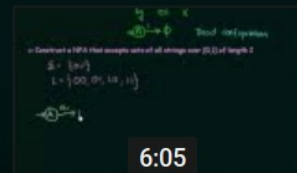
$$\Sigma = \{0,1\}$$

$$L = \{00, 01, 10, 11\}$$

$$\rightarrow (A) \xrightarrow{0,1} (B)$$

Eg. 101 X

$$\rightarrow \text{(A)} \xrightarrow{1} \phi \qquad \text{Dead configuration}$$

» Construct a NFA that accepts sets of all strings over {0,1} of length 2
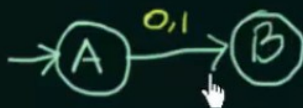
$$\Sigma = \{0,1\}$$

$$L = \{00, 01, 10, 11\}$$

$$\rightarrow \text{(A)} \xrightarrow{0,1} \text{(B)} \xrightarrow{0,1} \text{(C)}$$

Eg. 101 X

$\rightarrow \boxed{A} \xrightarrow{1} \phi$ Dead configuration

>> Construct a NFA that accepts sets of all strings over {0,1} of length 2
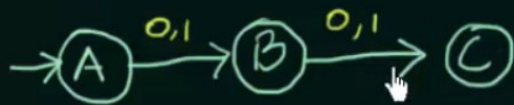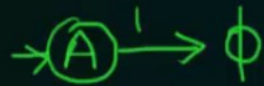
$$\Sigma = \{0,1\}$$
$$L = \{00, 01, 10, 11\}$$

$\rightarrow \boxed{A} \xrightarrow{0,1} \boxed{B} \xrightarrow{0,1} \boxed{\boxed{C}}$

Eg. 101   X

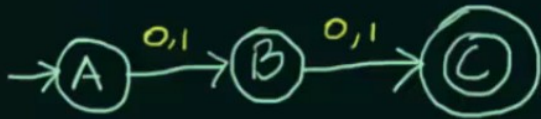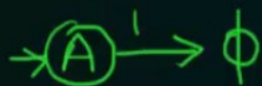$$\rightarrow \text{(A)} \xrightarrow{1} \phi \qquad \text{Dead configuration}$$

>> Construct a NFA that accepts sets of all strings over {0,1} of length 2
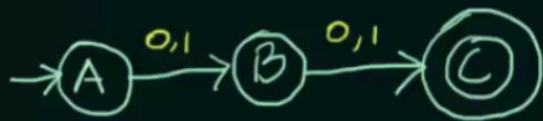
$$\Sigma = \{0,1\}$$

$$L = \{00, 01, 10, 11\}$$

Eg.   00

$$\rightarrow \text{(A)} \xrightarrow{0,1} \text{(B)} \xrightarrow{0,1} \text{((C))}$$

A

Eg. 101 X

→(A) --1--→ φ   Dead configuration

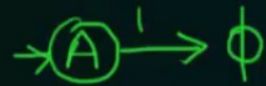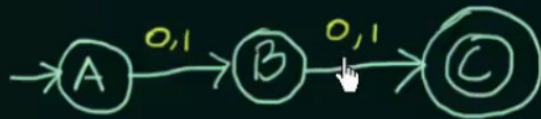>> Construct a NFA that accepts sets of all strings over {0,1} of length 2

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

$L = \{00, 01, 10, 11\}$

Eg. 00

→(A) --0,1--→ (B) --0,1--→ ((C))

→(A) --0--→ (B)

Eg. 101 X

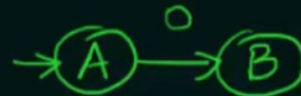$$\rightarrow \text{A} \xrightarrow{\ 1\ } \phi$$ Dead configuration

>> Construct a NFA that accepts sets of all strings over {0,1} of length 2

$$\Sigma = \{0,1\}$$
$$L = \{00, 01, 10, 11\}$$

Eg. 00 ✓

Eg. 101   X

→(A) $\xrightarrow{1}$ φ   Dead configuration

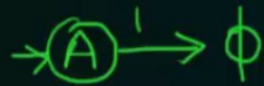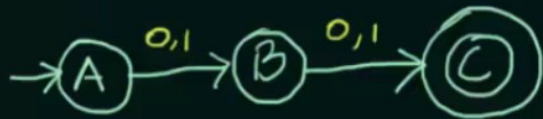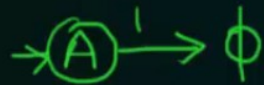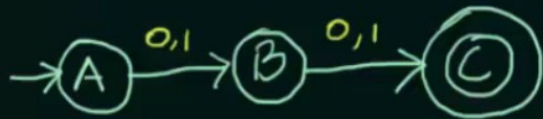>> Construct a NFA that accepts sets of all strings over {0,1} of length 2

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

$L = \{00, 01, 10, 11\}$

→(A) $\xrightarrow{0,1}$ (B) $\xrightarrow{0,1}$ ((C))

Eg. 00   ✓

→(A) $\xrightarrow{0}$ (B) → (C)

Eg. 001   X

→(A) $\xrightarrow{0}$ (B) $\xrightarrow{0}$ (C) $\xrightarrow{1}$ φ

- **Questions????**