

L-18 Conversion of Moore Machine to Mealy Machine-

Conversion of Moore Machine to Mealy Machine- Examples (Part-2)

Convert the given Moore Machine to its equivalent Mealy Machine.

Moore

State	0	1	Output
→ q_0	q_1	q_2	1
q_1	q_3	q_2	0
q_2	q_2	q_1	1
q_3	q_0	q_3	1

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

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

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q_3	q_0	q_3	1

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

Mealy

State	0	1
→ q_0	$q_1, 0$	$q_2, 1$
q_1		
q_2		
q_3		

Conversion of Moore Machine to Mealy Machine- Examples (Part-2)

Convert the given Moore Machine to its equivalent Mealy Machine.

Moore

State	0	1	Output
→ q ₀	q ₁	q ₂	1
q ₁	q ₃	q ₂	0
q ₂	q ₂	q ₁	1
q ₃	q ₀	q ₃	1

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

Mealy

State	0	1
→ q ₀	q ₁ , 0	q ₂ , 1
q ₁	q ₃ , 1	q ₂ , 1
q ₂		
q ₃		

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State	0	1	Output
→ q ₀	q ₁	q ₂	1
q ₁	q ₃	q ₂	0
q ₂	q ₂	q ₁	1
q ₃	q ₀	q ₃	1

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

Mealy

State	0	1
→ q ₀	q ₁ , 0	q ₂ , 1
q ₁	q ₃ , 1	q ₂ , 1
q ₂	q ₂ , 1	q ₁ , 0
q ₃		

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q ₁	q ₃	q ₂	0
q ₂	q ₂	q ₁	1
q ₃	q ₀	q ₃	1

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

Mealy

State	0	1
→ q ₀	q ₁ , 0	q ₂ , 1
q ₁	q ₃ , 1	q ₂ , 1
q ₂	q ₂ , 1	q ₁ , 0
q ₃	q ₀ , 1	q ₃ , 1

Conversion of Moore Machine to Mealy Machine- Examples (Part-2)

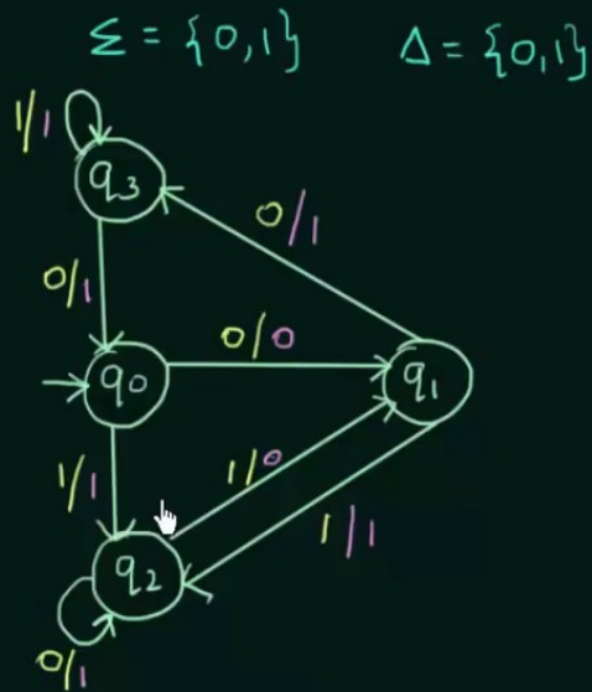
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q_3	q_0	q_3	1

Mealy

State	0	1
→ q_0	$q_1, 0$	$q_2, 1$
q_1	$q_3, 1$	$q_2, 1$
q_2	$q_2, 1$	$q_1, 0$
q_3	$q_0, 1$	$q_3, 1$



• **Questions????**