

NFA-DFA Conversion Example-2 (Part2)

Conversion of NFA to DFA - Examples (Part-2)



Conversion of NFA to DFA - Examples (Part-2)

Find the equivalent DFA for the NFA given by $M = [\{A, B, C\}, (a, b), \delta, A, \{C\}]$ where δ is given by:

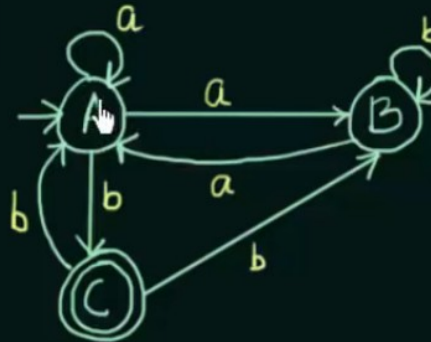
	a	b
$\rightarrow A$	A, B	C
B	A	B
$\odot C$	-	A, B



Conversion of NFA to DFA - Examples (Part-2)

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B	A	B
$\odot C$	-	A, B

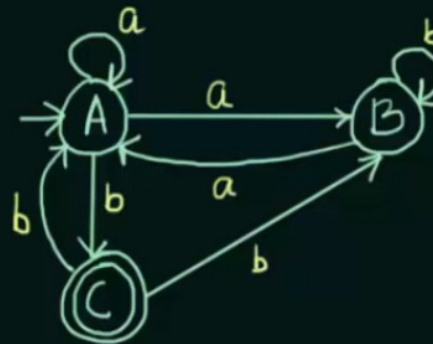


Conversion of NFA to DFA - Examples (Part 2)



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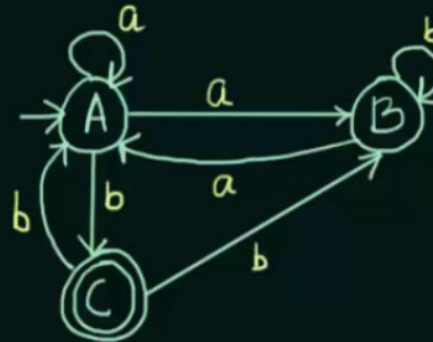


	a	b
$\rightarrow A$		

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B	A	B
$\odot C$	-	A, B



	a	b
$\rightarrow A$	AB	C

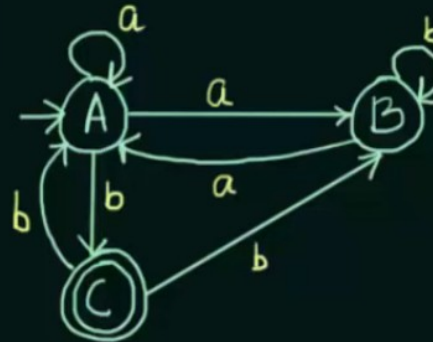
Hand cursor pointing to the cell containing 'AB'.



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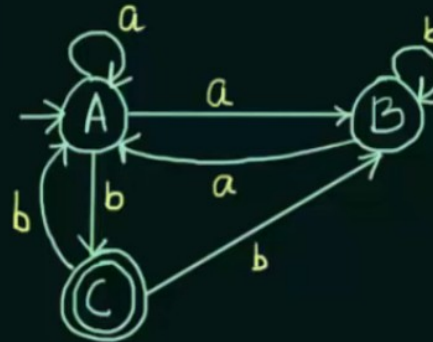
	a	b
$\rightarrow A$	AB	C
AB	AB	BC



Conversion of NFA to DFA - Examples (Part-2)

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	a	b
$\rightarrow A$	A, B	C
B	A	B
$\odot C$	-	A, B



	a	b
$\rightarrow A$	AB	C
AB	AB	BC
BC	A	AB

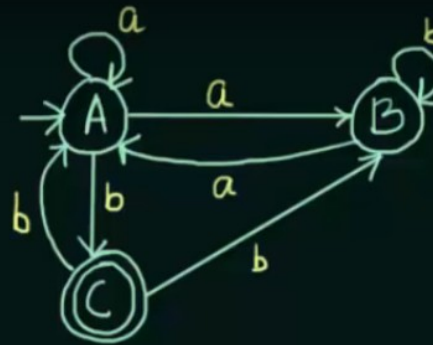


Conversion of NFA to DFA - Examples (Part 2)



is given by:

	a	b
→ A	A, B	C
B	A	B
⊙ C	-	A, B

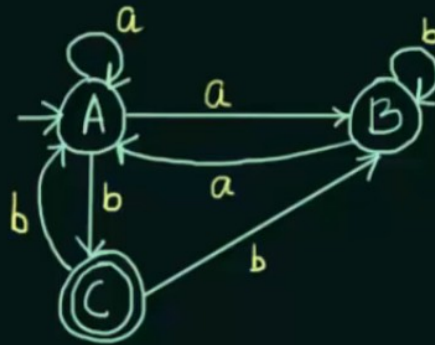


	a	b
→ A	AB	C
AB	AB	BC
BC	A	AB
C	D	AB



Find the equivalent DFA for the NFA given by $M = [A, B, C, \{a, b\}, \delta, A, \{C\}]$ where δ is given by:

	a	b
$\rightarrow A$	A, B	C
B	A	B
$\odot C$	-	A, B

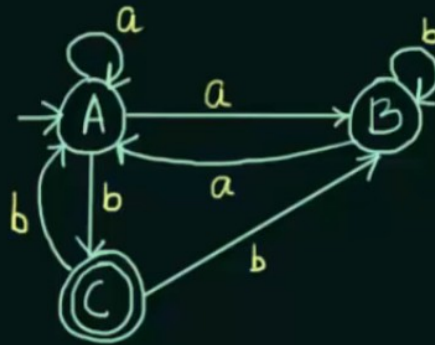


	a	b
$\rightarrow A$	AB	C
AB	AB	BC
BC	A	AB
C	D	AB
D	D	D



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	a	b
$\rightarrow A$	A, B	C
B	A	B
$\odot C$	-	A, B



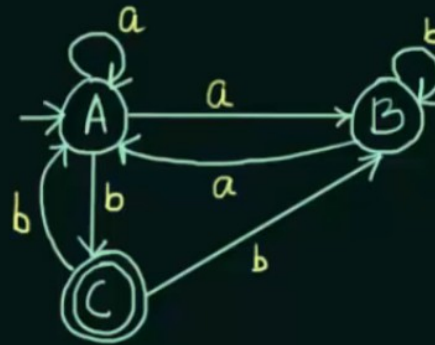
	a	b
$\rightarrow A$	AB	C
AB	AB	BC
$\odot BC$	A	AB
$\odot C$	D	AB
D	D	D



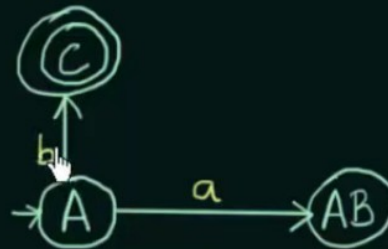
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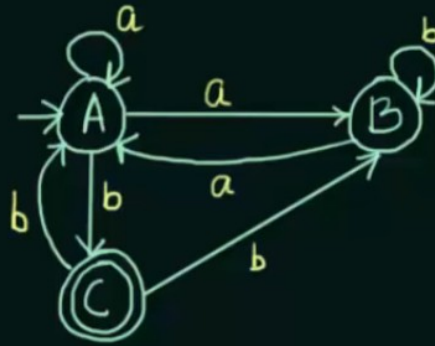
	a	b
$\rightarrow A$	AB	C
AB	AB	BC
$\odot BC$	A	AB
$\odot C$	D	AB
D	D	D



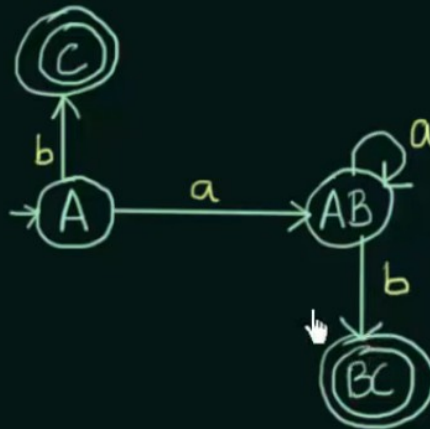
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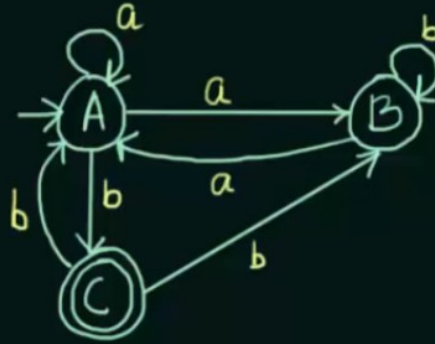
	a	b
$\rightarrow A$	AB	C
AB	AB	BC
$\odot BC$	A	AB
$\odot C$	D	AB
D	D	D



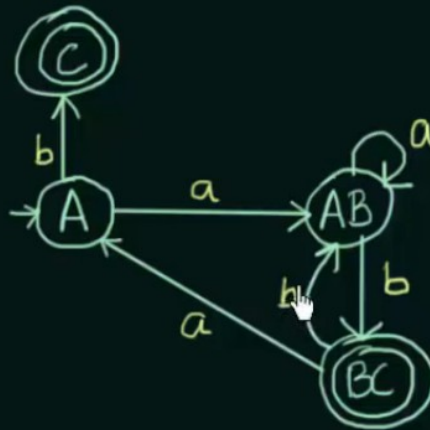
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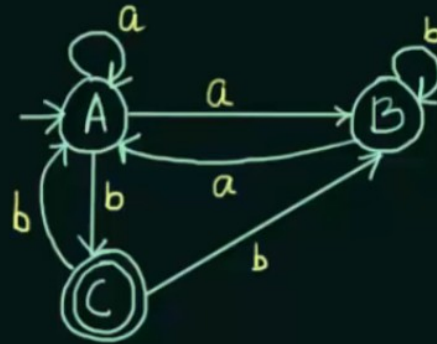
	a	b
$\rightarrow A$	AB	C
AB	AB	BC
$\odot BC$	A	AB
$\odot C$	D	AB
D	D	D



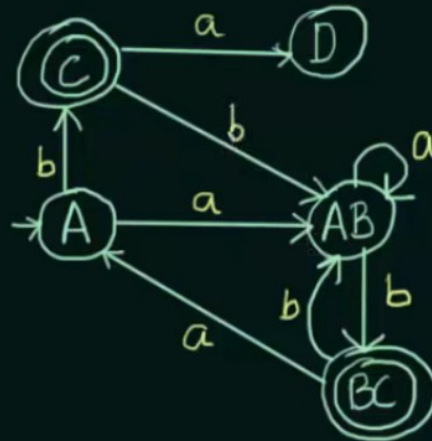
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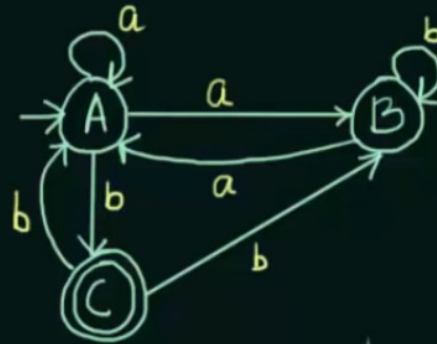
	a	b
$\rightarrow A$	AB	C
AB	AB	BC
$\odot BC$	A	AB
$\odot C$	D	AB
D	D	D



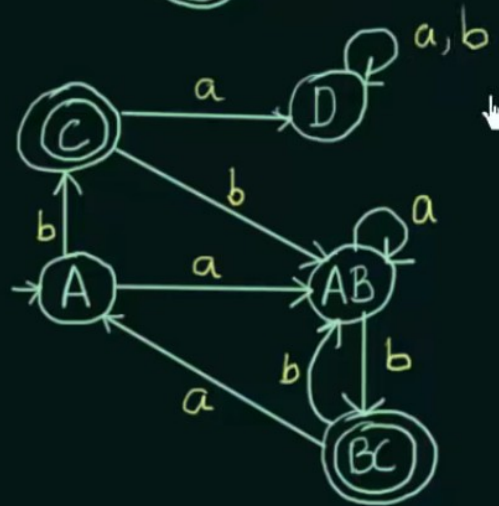
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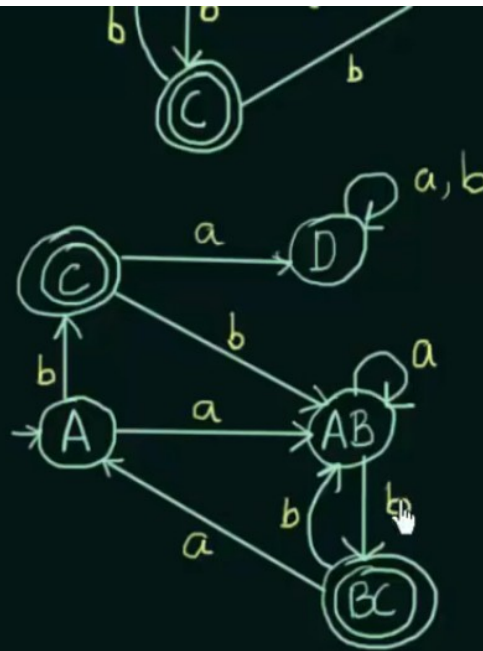


	a	b
$\rightarrow A$	AB	C
AB	AB	BC
$\odot BC$	A	AB
$\odot C$	D	AB
D	D	D



⊙ C | - A, B

	a	b
→ A	AB	C
AB	AB	BC
⊙ BC	A	AB
⊙ C	D	AB
D	D	D



Assignment: Try to find out what does this NFA and its equivalent DFA accept



• **Questions????**