
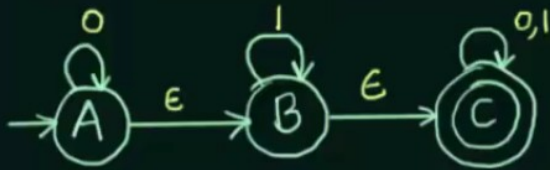


Conversion of Epsilon NFA to NFA

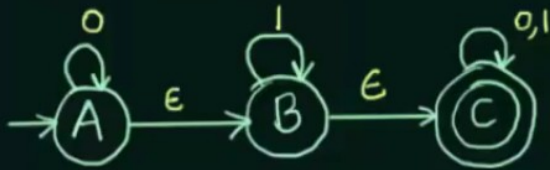
Conversion of ϵ -NFA to NFA

Convert the following ϵ -NFA to its equivalent NFA 



Conversion of ϵ -NFA to NFA

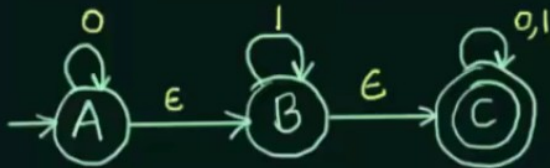
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

Conversion of ϵ -NFA to NFA

Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

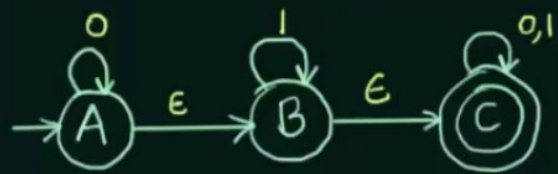
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

(A)

	0	1
\rightarrow A		
B		
C		

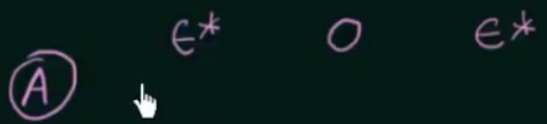
Conversion of ϵ -NFA to NFA

Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

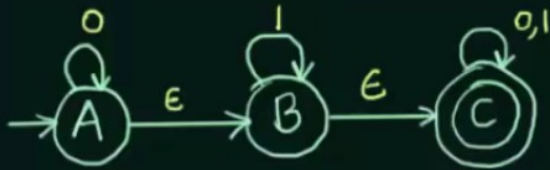
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol



	0	1
→ A		
B		
C		

Conversion of ϵ -NFA to NFA

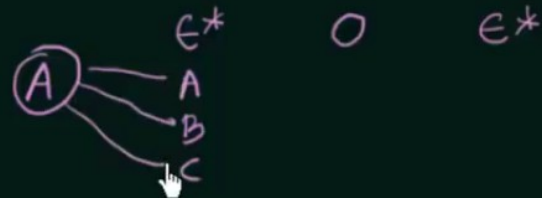
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

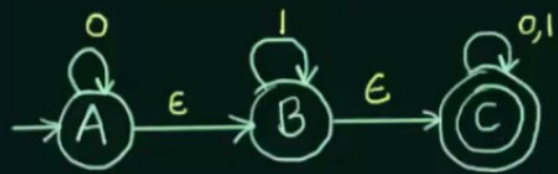
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A		
B		
C		



Conversion of ϵ -NFA to NFA

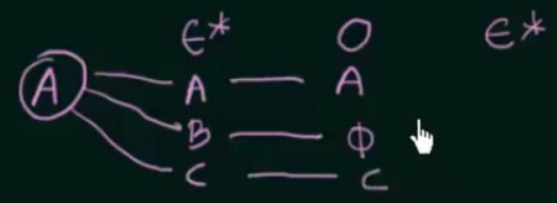
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

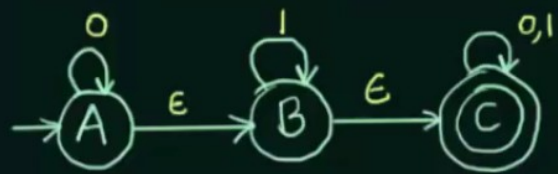
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A		
B		
C		



Conversion of ϵ -NFA to NFA

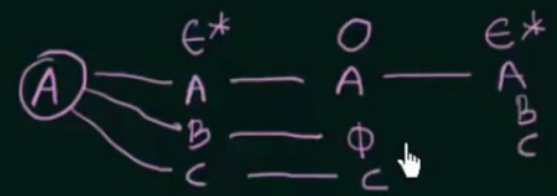
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

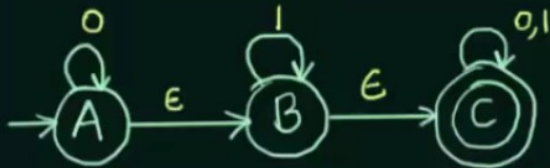
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A		
B		
C		



Conversion of ϵ -NFA to NFA

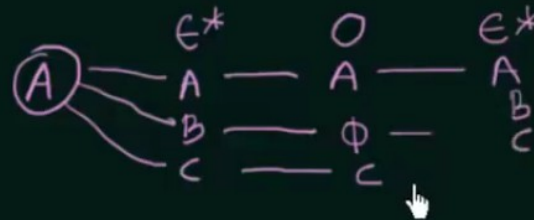
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

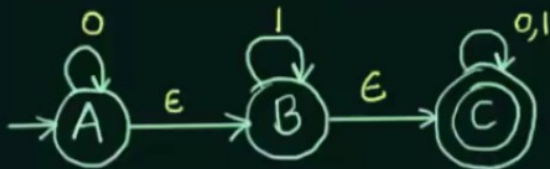
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A		
B		
C		



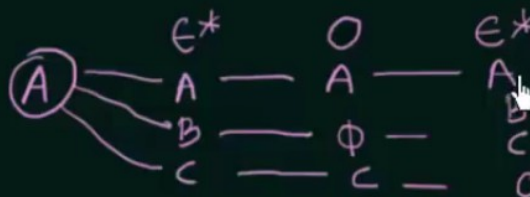
Conversion of ϵ -NFA to NFA

Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

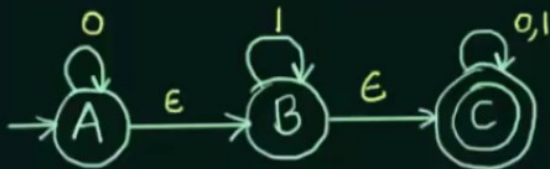
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol



	0	1
→ A		
B		
C		

Conversion of ϵ -NFA to NFA

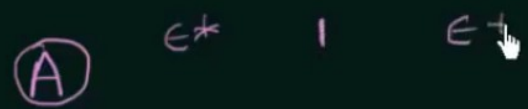
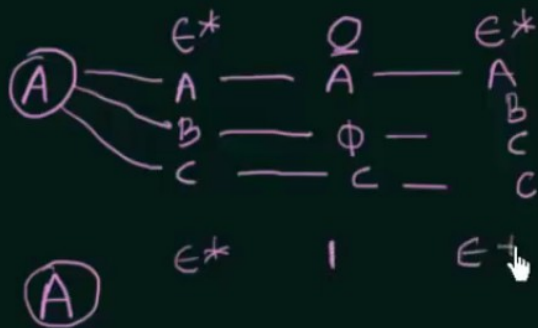
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

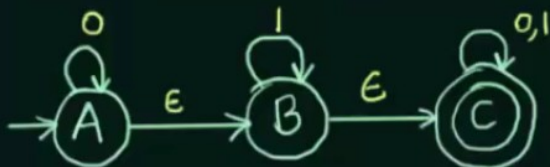
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A	{A, B, C}	
B		
C		



Conversion of ϵ -NFA to NFA

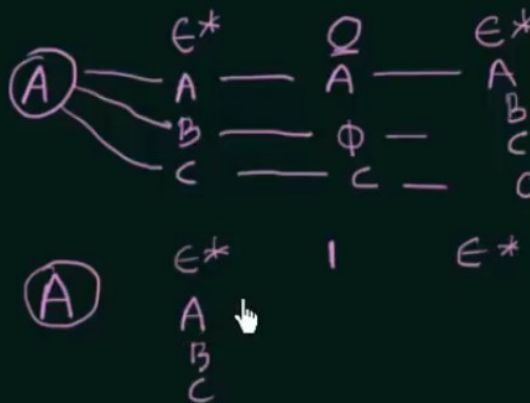
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

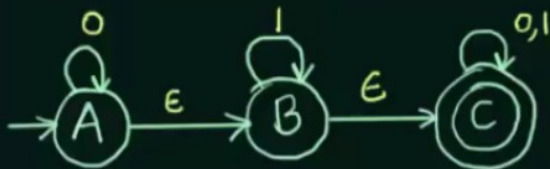
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A	{A, B, C}	
B		
C		



Conversion of ϵ -NFA to NFA

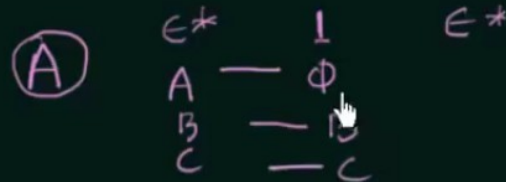
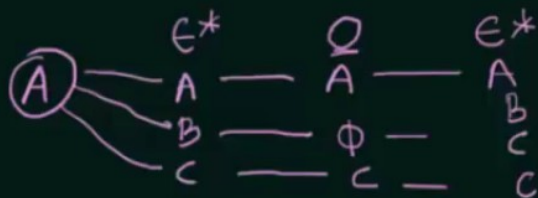
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

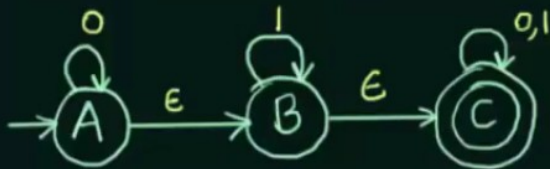
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A	{A, B, C}	
B		
C		



Conversion of ϵ -NFA to NFA

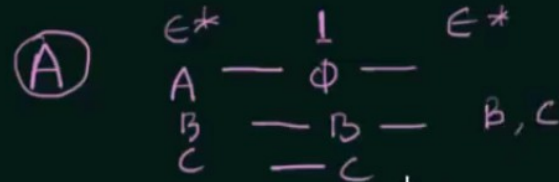
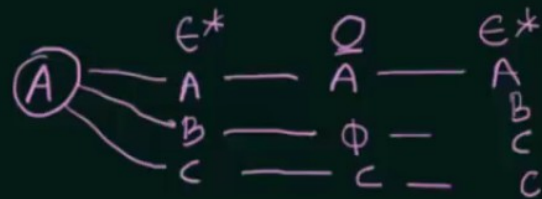
Convert the following ϵ -NFA to its equivalent NFA



State ϵ^* input ϵ^*

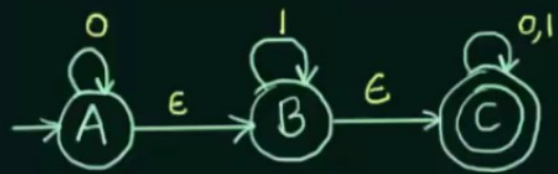
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A	{A, B, C}	
B		
C		



Conversion of ϵ -NFA to NFA

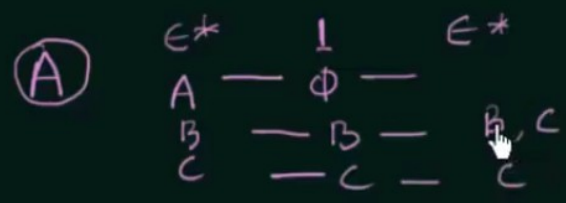
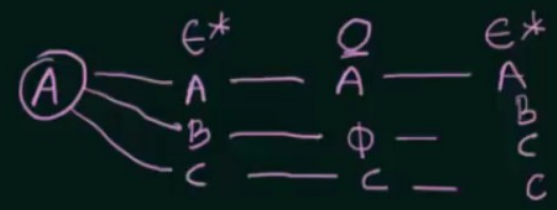
Convert the following ϵ -NFA to its equivalent NFA



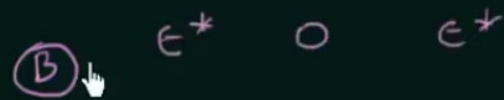
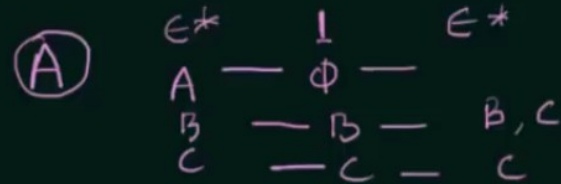
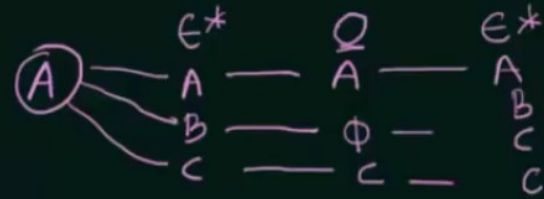
State ϵ^* input ϵ^*

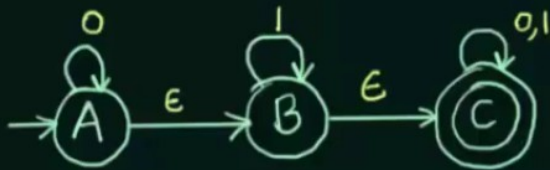
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
→ A	{A, B, C}	
B		
C		



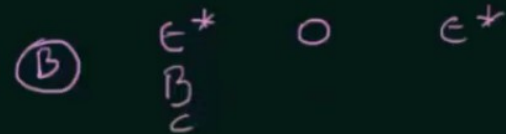
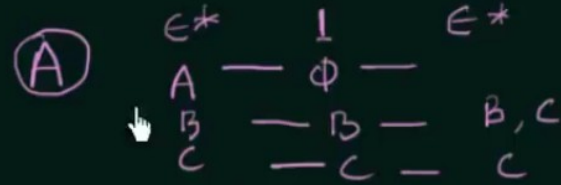
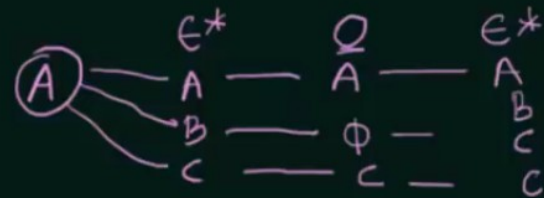
	0	1
→ A	{A, B, C}	{B, C}
B		
C		

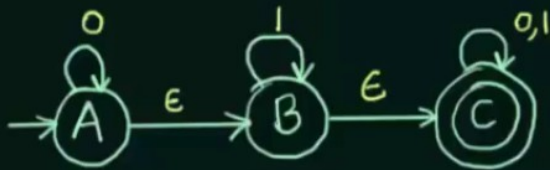




ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

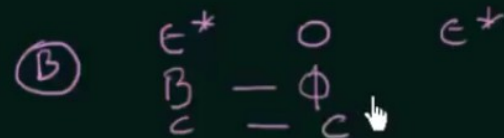
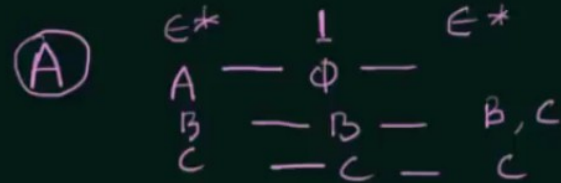
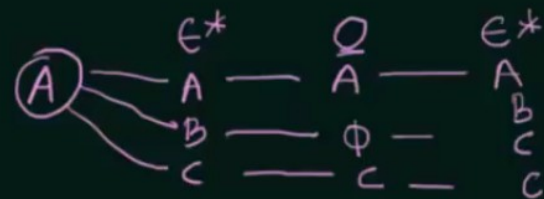
	0	1
A	{A, B, C}	{B, C}
B		
C		

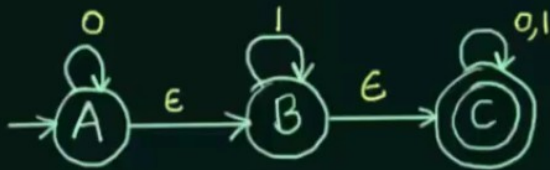




ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

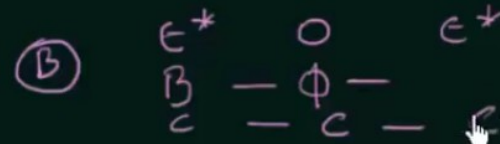
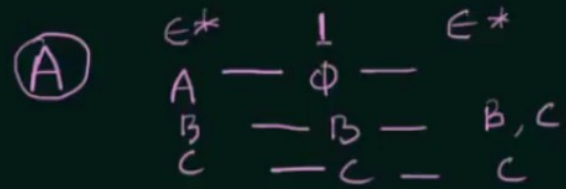
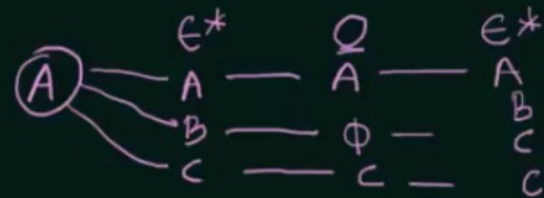
	0	1
A	{A, B, C}	{B, C}
B		
C		

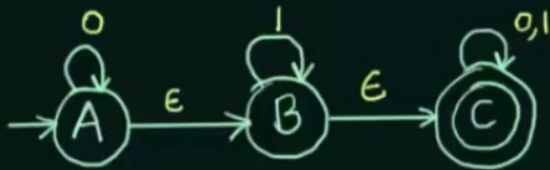




ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
A	{A, B, C}	{B, C}
B		
C		



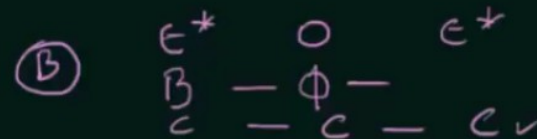
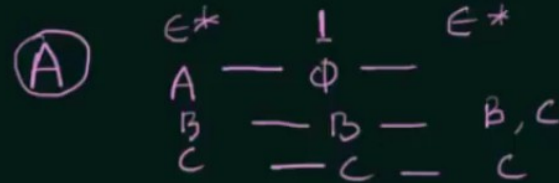
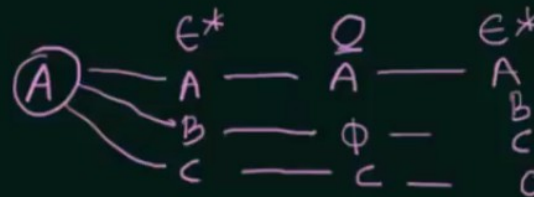


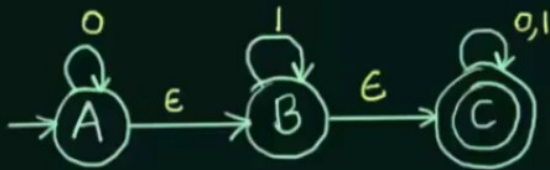
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
A	{A, B, C}	{B, C}
B	{C}	
C		

ⓑ

ϵ^*	1	ϵ^*
B	→	
C		



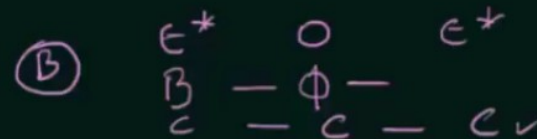
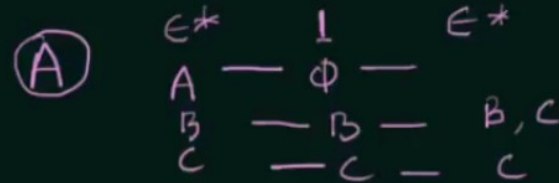
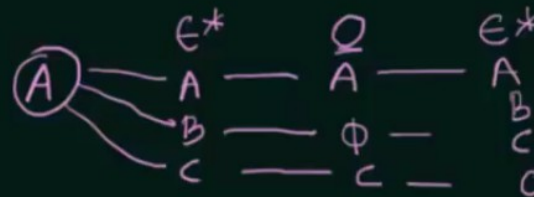


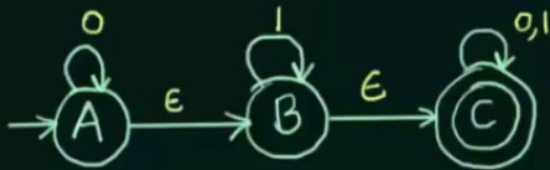
ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
A	{A, B, C}	{B, C}
B	{C}	
C		

ⓑ

ϵ^*	1	ϵ^*
B	B	B, C
C	C	C



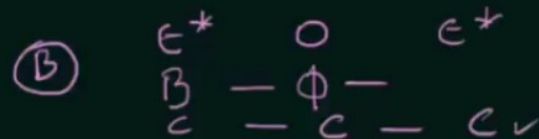
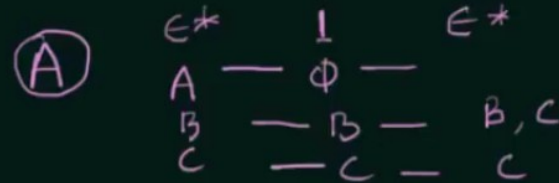
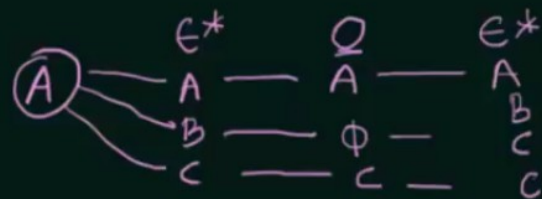


ϵ -Closure (ϵ^*) - All the states that can be reached from a particular state only by seeing the ϵ symbol

	0	1
\rightarrow A	{A, B, C}	{B, C}
B	{C}	{B, C}
C	{C}	

ⓑ

ϵ^*	1	ϵ^*
B	B	B, C
C	C	C



	0	1
→ (A)	{A, B, C}	{B, C}
(B)	{C}	{B, C}
(C)	{C}	{C}

(B)

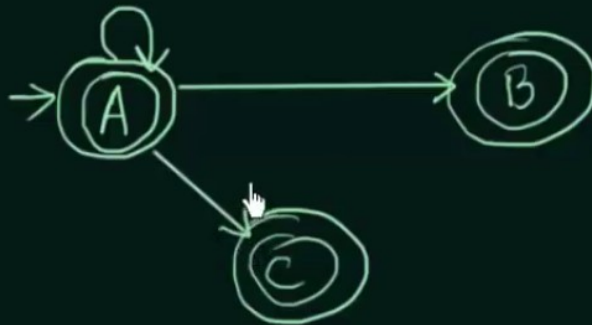
ϵ^*	1	ϵ^*
B	B	B, C
C	C	C

(A)

ϵ^*	1	ϵ^*
A	ϕ	
B	B	B, C
C	C	C

(B)

ϵ^*	0	ϵ^*
B	ϕ	
C	C	C ✓



	0	1
→ (A)	{A, B, C}	{B, C}
(B)	{C}	{B, C}
(C)	{C}	{C}

(B)

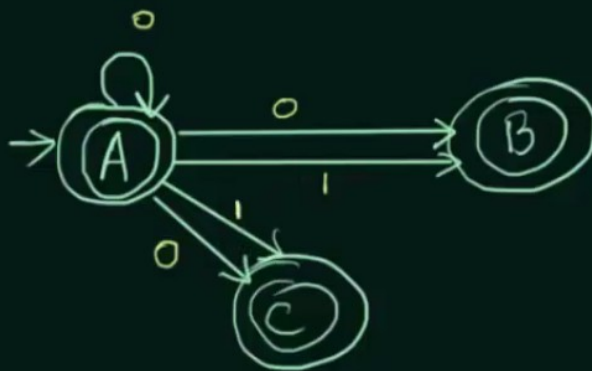
ϵ^*	1	ϵ^*
B	B	B, C
C	C	C

(A)

ϵ^*	1	ϵ^*
A	ϕ	
B	B	B, C
C	C	C

(B)

ϵ^*	0	ϵ^*
B	ϕ	
C	C	C ✓



	0	1
→ (A)	{A, B, C}	{B, C}
(B)	{C}	{B, C}
(C)	{C}	{C}

(B)

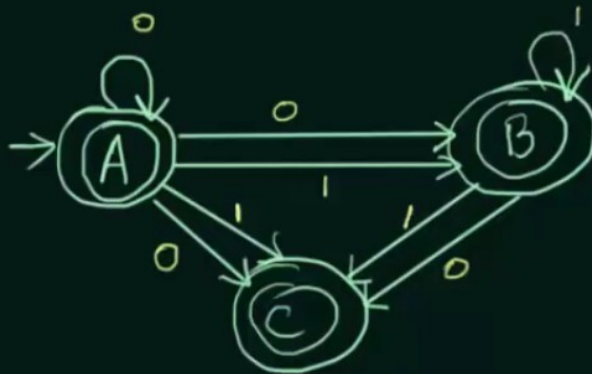
ϵ^*	1	ϵ^*
B	B	B, C
C	C	C

(A)

ϵ^*	1	ϵ^*
A	ϕ	
B	B	B, C
C	C	C

(B)

ϵ^*	0	ϵ^*
B	ϕ	
C	C	C ✓



	0	1
→ (A)	{A, B, C}	{B, C}
(B)	{C}	{B, C}
(C)	{C}	{C}

(B)

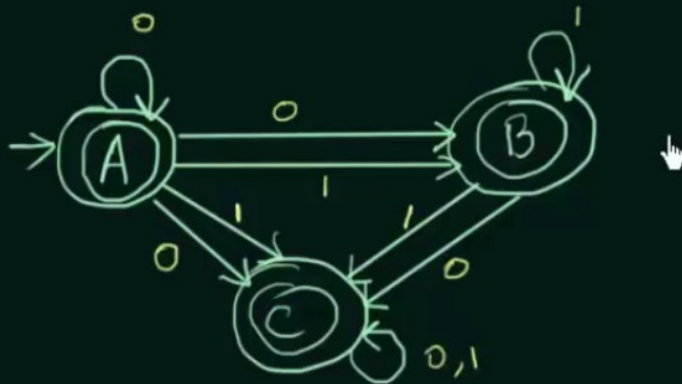
ϵ^*	1	ϵ^*
B	B	B, C
C	C	C

(A)

ϵ^*	1	ϵ^*
A	ϕ	
B	B	B, C
C	C	C

(B)

ϵ^*	0	ϵ^*
B	ϕ	
C	C	C ✓



• **Questions????**