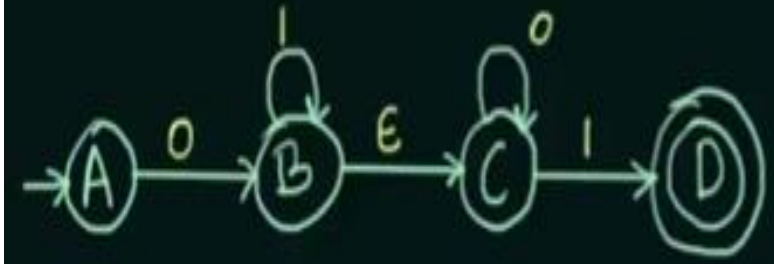
Converting a NFA with epsilon moves into a NFA without epsilon moves

Conversion of ε -NFA to NFA -Examples

Convert the following ε-NFA to its equivalent NFA

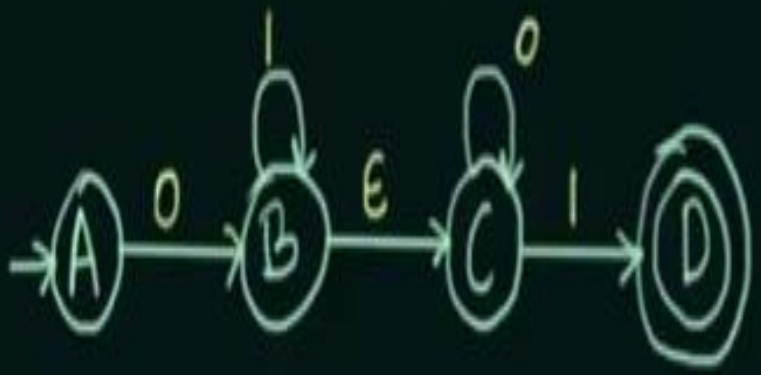


NFA

	0	1
→A		
B		
C		
D		

	ε^*	0	ε^*

	ε^*	1	ε^*

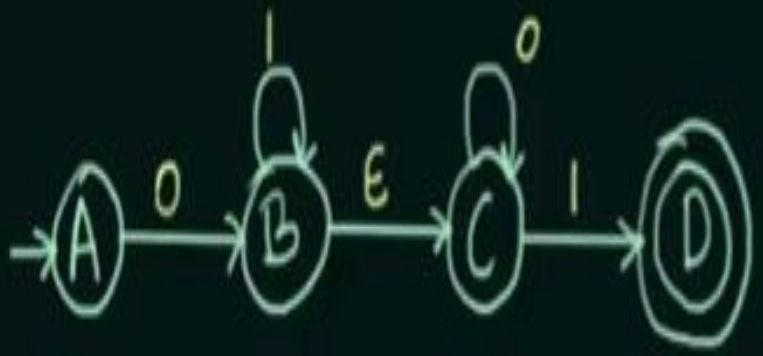


NFA

	0	1
→A	B, C	
B		
C		
D		

	ε*	0	ε*
A	A	B	B, C

	ε*	1	ε*
A	A	Φ	Φ

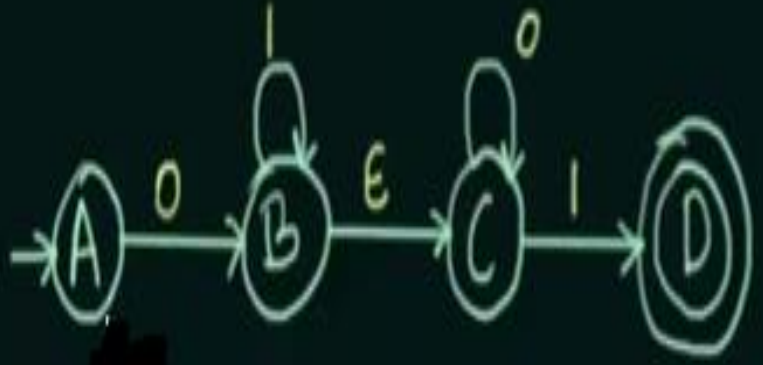


NFA

	0	1
→A	B, C	Φ
B	C	B, C, D
C	C	D
D		

	ε*	0	ε*
A	A	B	B C
B	B	Φ	Φ
	C	C	C
C	C	C	C

	ε*	1	ε*
A	A	Φ	Φ
B	B	B	B C
	C	D	D
C	C	D	D



NFA

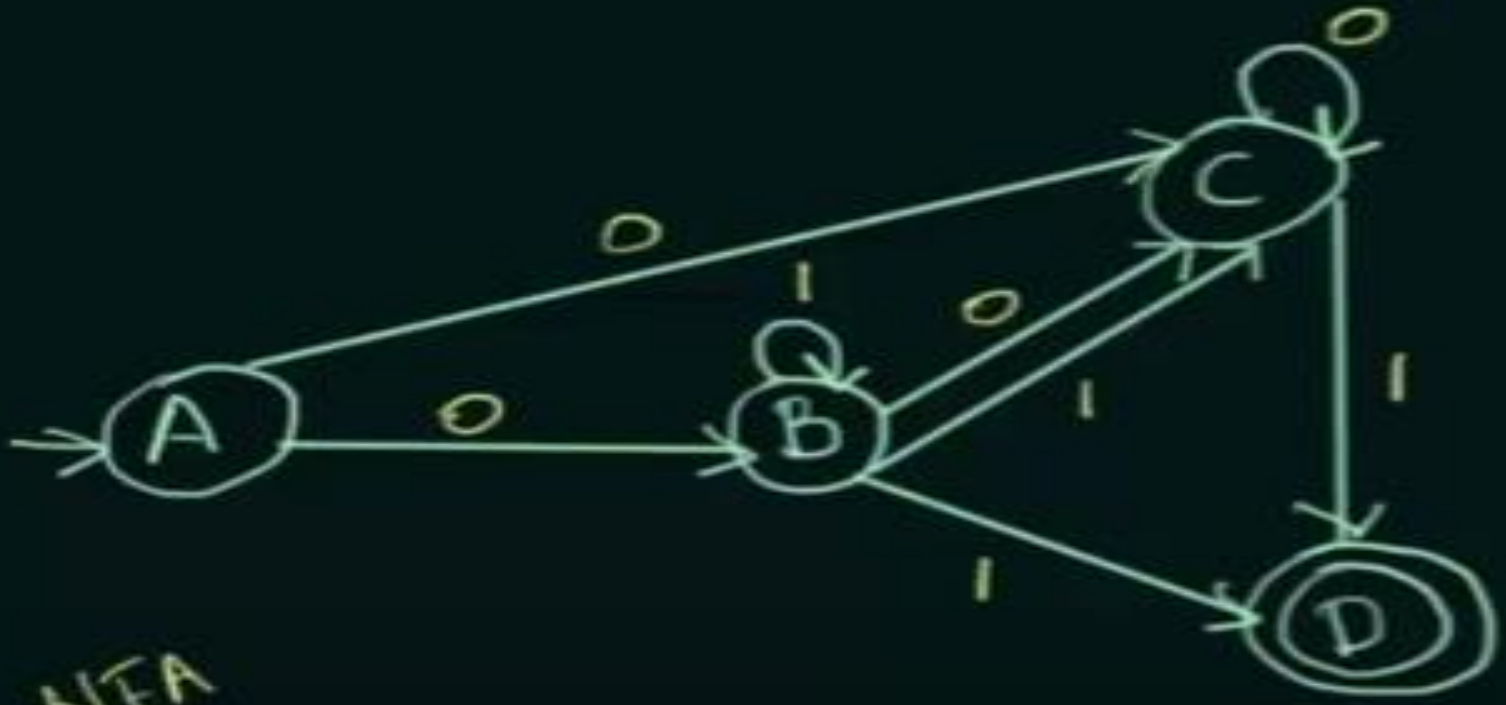
	0	1
→A	B, C	Φ
B	C	B, C, D
C	C	D
D	Φ	Φ

	ε*	0	ε*	
A	A	B	B C	
B	B C	Φ C	Φ C	
C	C	C	C	
D	D	Φ	Φ	

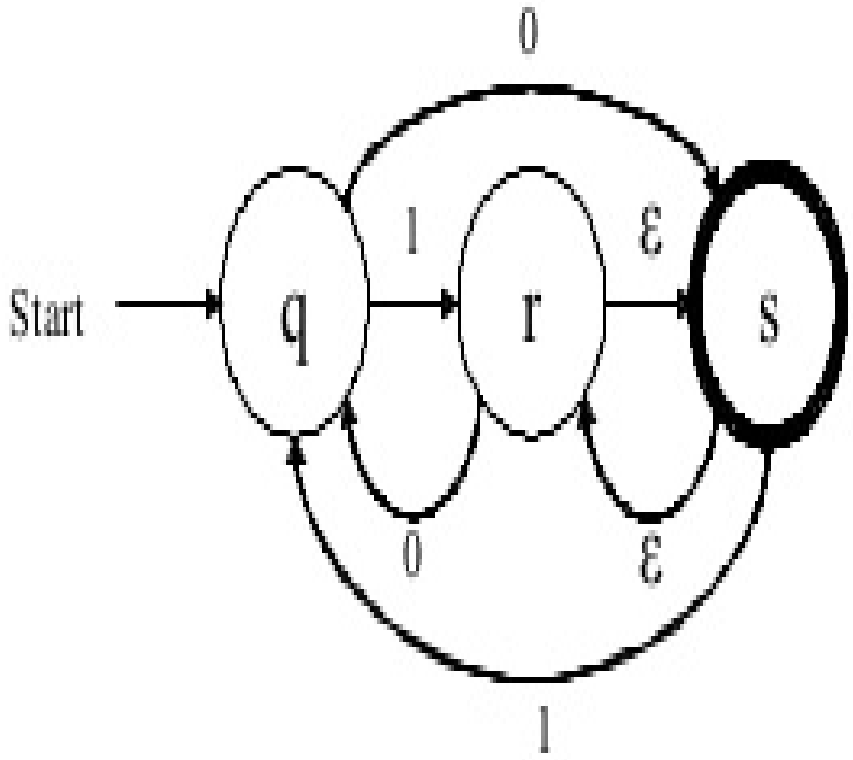
	ε*	1	ε*	
A	A	Φ	Φ	
B	B C	B D	B C D	
C	C	D	D	
D	D	Φ	Φ	

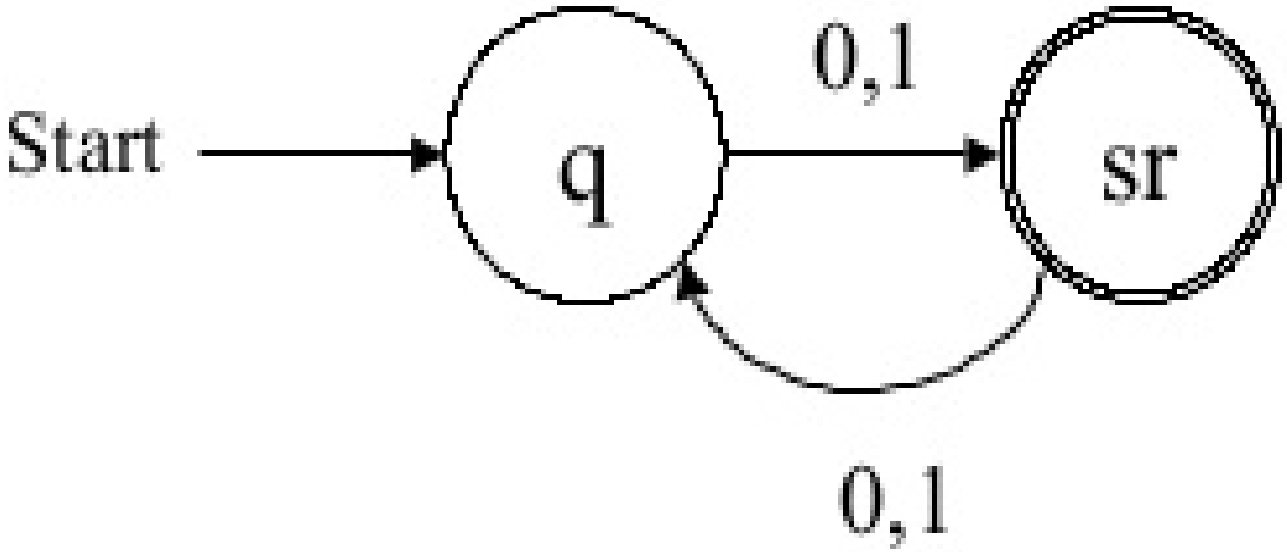
NFA

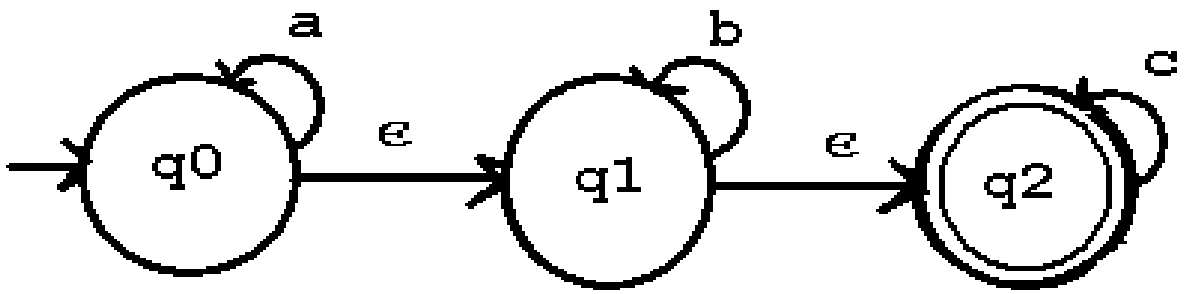
	0	1
→ A	B, C	Φ
B	C	B, C, D
C	C	D
(D)	Φ	Φ



NFA

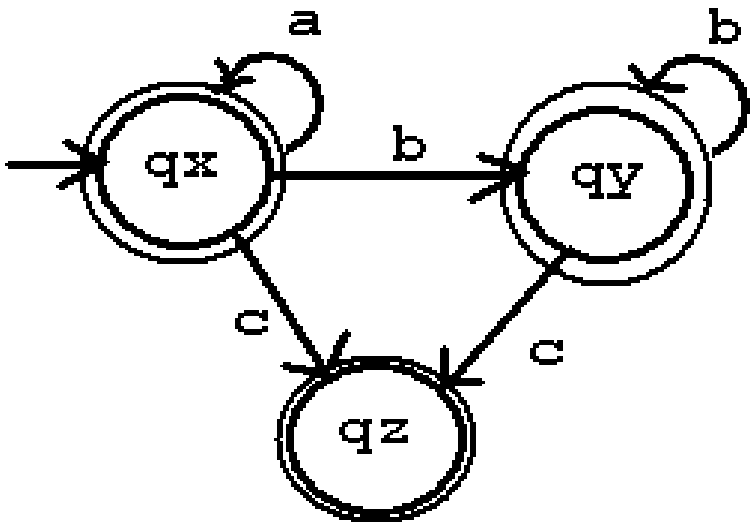

0
Start
q
1
r
ε
s
0
ε
1


Start
q
0,1
sr
0,1



NFA- e

regular expression a* b* c*



NFA