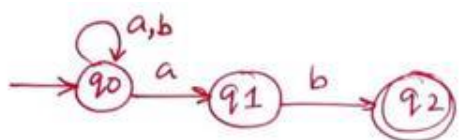


①



NFA

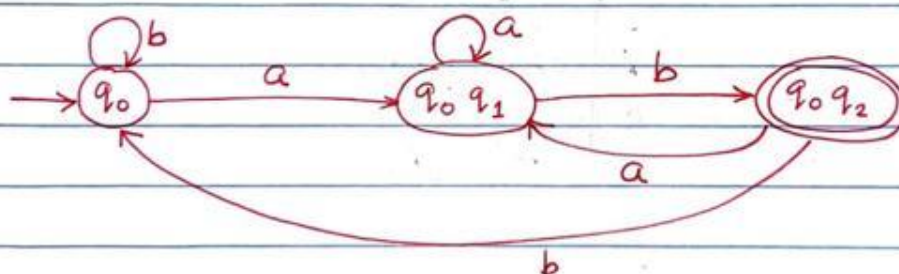
02/14/2023

state	a	b
→ q <sub>0</sub>	q <sub>0</sub> q <sub>1</sub>	q <sub>0</sub>
q <sub>1</sub>	—	q <sub>2</sub>
*q <sub>2</sub>	—	—

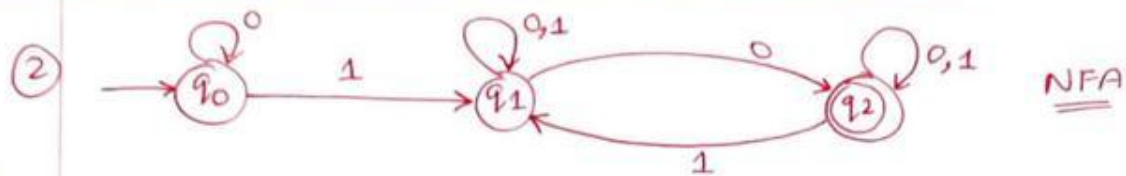
(for NFA)

State	a	b
→ q <sub>0</sub>	q <sub>0</sub> q <sub>1</sub>	q <sub>0</sub>
q <sub>0</sub> q <sub>1</sub>	q <sub>0</sub> q <sub>1</sub>	q <sub>0</sub> q <sub>2</sub>
q <sub>0</sub> q <sub>2</sub>	q <sub>0</sub> q <sub>1</sub>	q <sub>0</sub>

(for DFA)



DFA

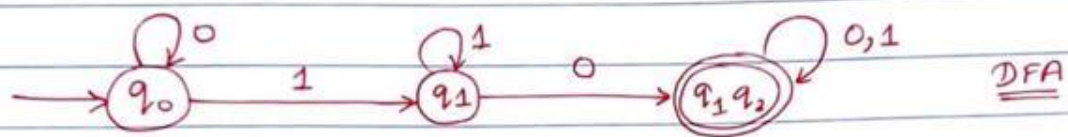


State	0	1
→ $q_0$	$q_0$	$q_1$
$q_1$	$q_1 q_2$	$q_1$
* $q_2$	$q_2$	$q_1 q_2$

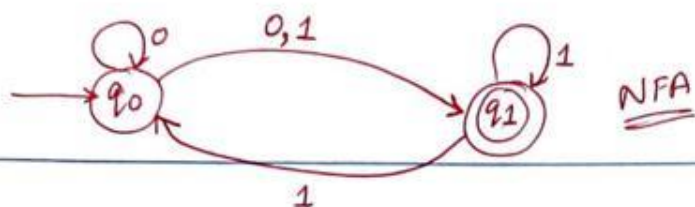
(for NFA)

State	0	1
→ $q_0$	$q_0$	$q_1$
$q_1$	$\{q_1 q_2\}$	$q_1$
$q_1 q_2$	$\{q_1 q_2\}$	$\{q_1 q_2\}$

(for DFA)

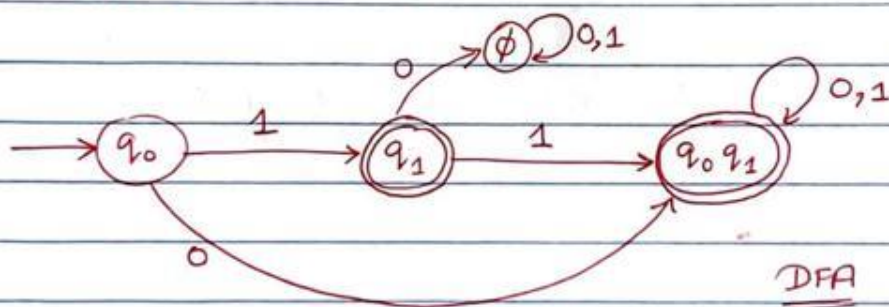


③

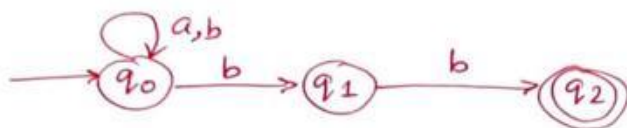


State	0	1	(for NFA)
→ q <sub>0</sub>	q <sub>0</sub> q <sub>1</sub>	q <sub>1</sub>	
q <sub>1</sub>	-	q <sub>0</sub> q <sub>1</sub>	

State	0	1	(for DFA)
→ q <sub>0</sub>	q <sub>0</sub> q <sub>1</sub>	q <sub>1</sub>	
*q <sub>1</sub>	∅	q <sub>0</sub> q <sub>1</sub>	
*q <sub>0</sub> q <sub>1</sub>	q <sub>0</sub> q <sub>1</sub>	q <sub>0</sub> q <sub>1</sub>	
∅	∅	∅	



4



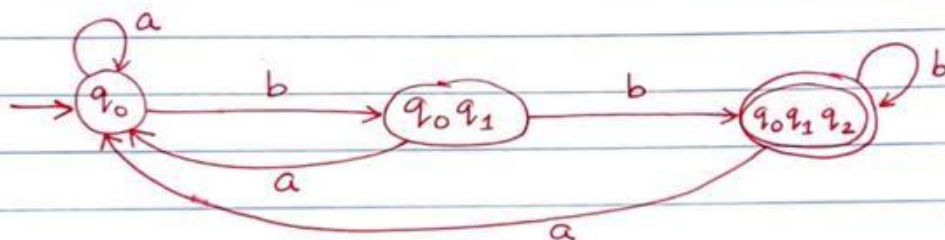
NFA

State	a	b
→ q <sub>0</sub>	q <sub>0</sub>	q <sub>0</sub> q <sub>1</sub>
q <sub>1</sub>	φ	q <sub>2</sub>
*q <sub>2</sub>	φ	φ

(for NFA)

State	a	b
q <sub>0</sub>	q <sub>0</sub>	{q <sub>0</sub> q <sub>1</sub> }
q <sub>0</sub> q <sub>1</sub>	q <sub>0</sub>	{q <sub>0</sub> q <sub>1</sub> q <sub>2</sub> }
q <sub>0</sub> q <sub>1</sub> q <sub>2</sub>	q <sub>0</sub>	{q <sub>0</sub> q <sub>1</sub> q <sub>2</sub> }

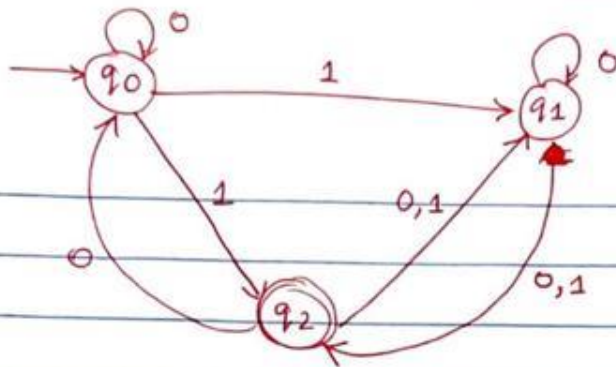
(for DFA)



DFA



5



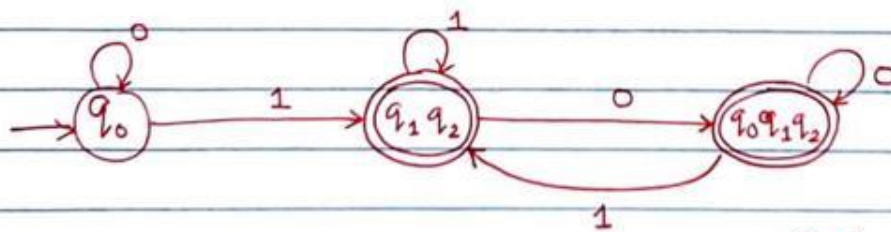
NFA

States	0	1
→ q <sub>0</sub>	q <sub>0</sub>	q <sub>1</sub> q <sub>2</sub>
q <sub>1</sub>	q <sub>1</sub> q <sub>2</sub>	q <sub>2</sub>
*q <sub>2</sub>	q <sub>0</sub> q <sub>1</sub>	q <sub>1</sub>

(for NFA)

States	0	1
→ q <sub>0</sub>	q <sub>0</sub>	{q <sub>1</sub> q <sub>2</sub> }
q <sub>1</sub> q <sub>2</sub>	{q <sub>0</sub> q <sub>1</sub> q <sub>2</sub> }	{q <sub>1</sub> q <sub>2</sub> }
q <sub>0</sub> q <sub>1</sub> q <sub>2</sub>	{q <sub>0</sub> q <sub>1</sub> q <sub>2</sub> }	{q <sub>1</sub> q <sub>2</sub> }

(for DFA)



DFA