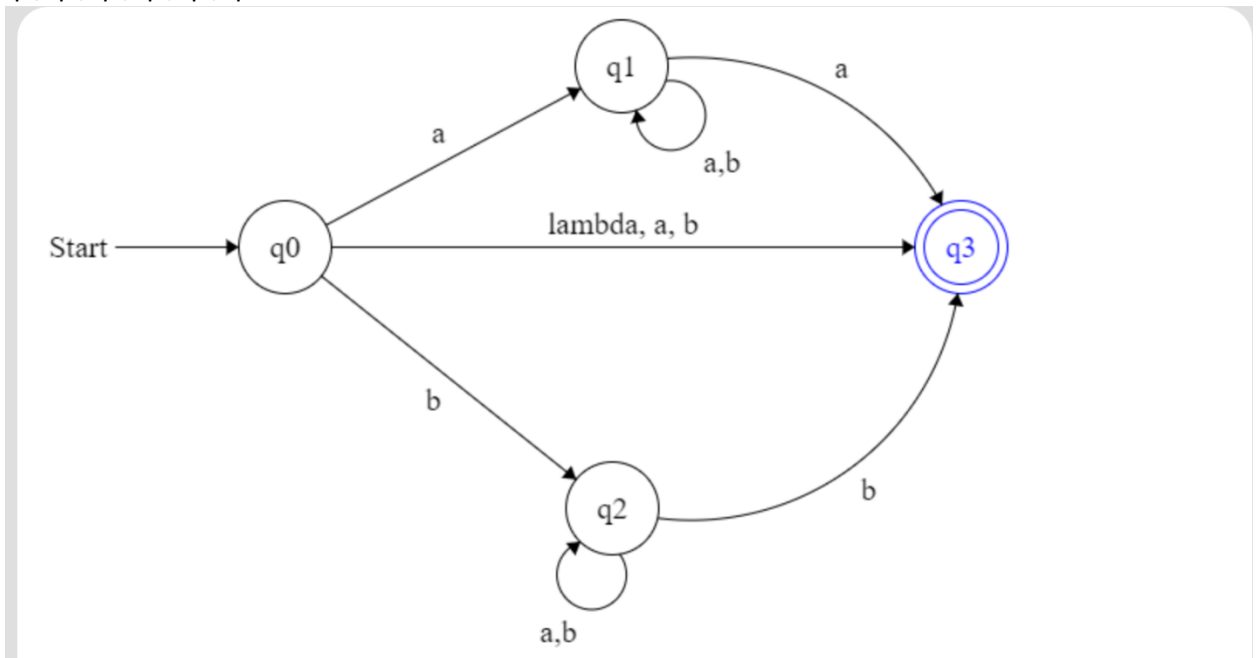


1. $q_0, q_2, q_2, q_3, q_3, q_3$
 $q_0, q_0, q_2, q_2, q_3, q_3$

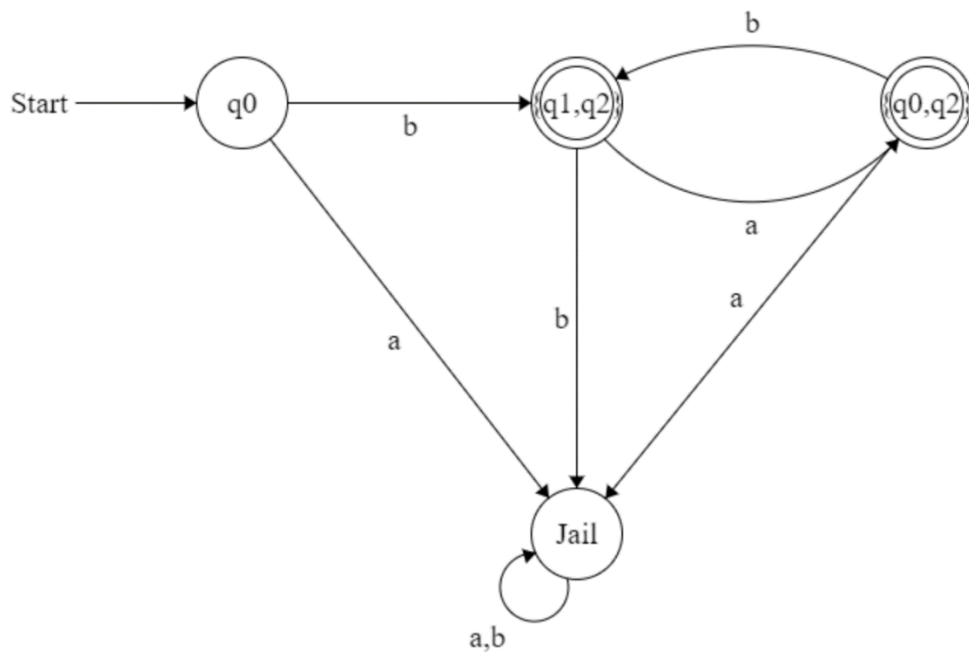


- 2.
3. $\{b, ba, bab, baba, babab, bababa, bababab, \dots\}$
4. NFA

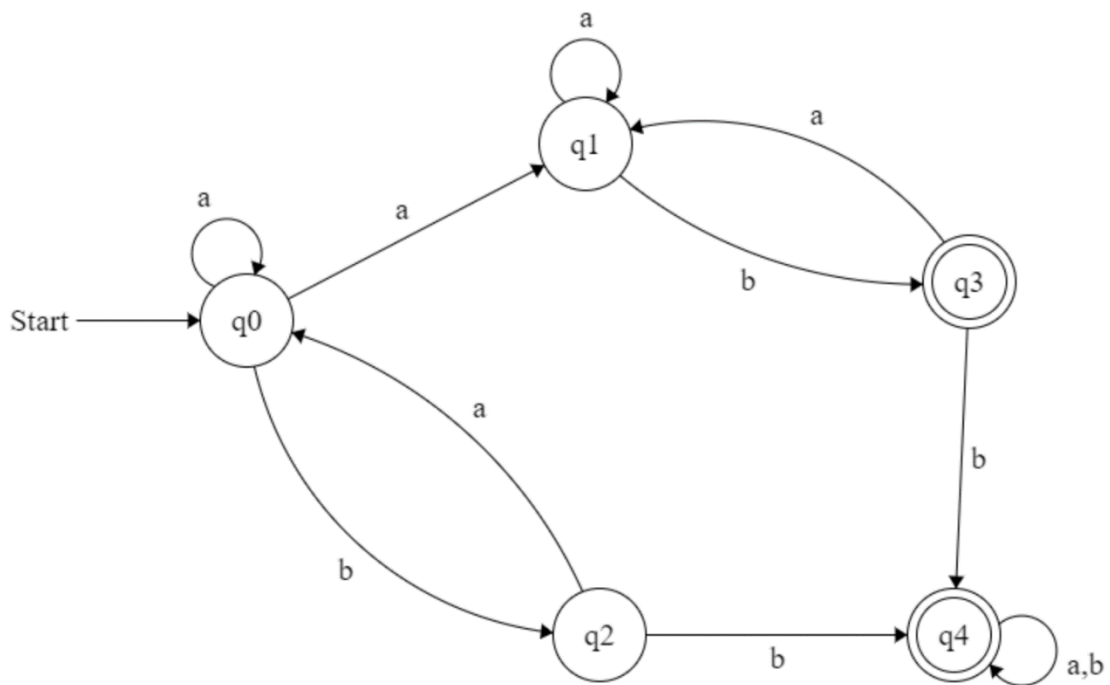
State	a	b
q_0	\emptyset	$\{q_1, q_2\}$
q_1	$\{q_0, q_2\}$	\emptyset
$+q_2$	\emptyset	\emptyset

DFA

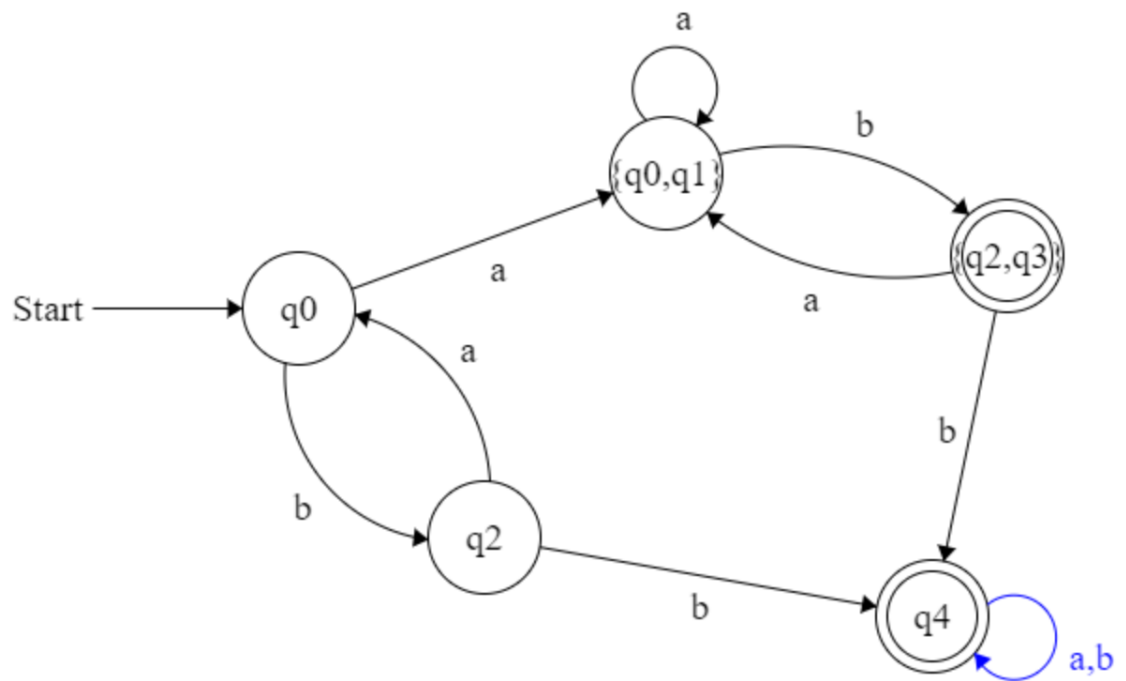
State	a	b
q_0	\emptyset	$\{q_1, q_2\}$
$+ \{q_1, q_2\}$	$\{q_0, q_2\}$	\emptyset
$+ \{q_0, q_2\}$	\emptyset	$\{q_1, q_2\}$



5.



6.



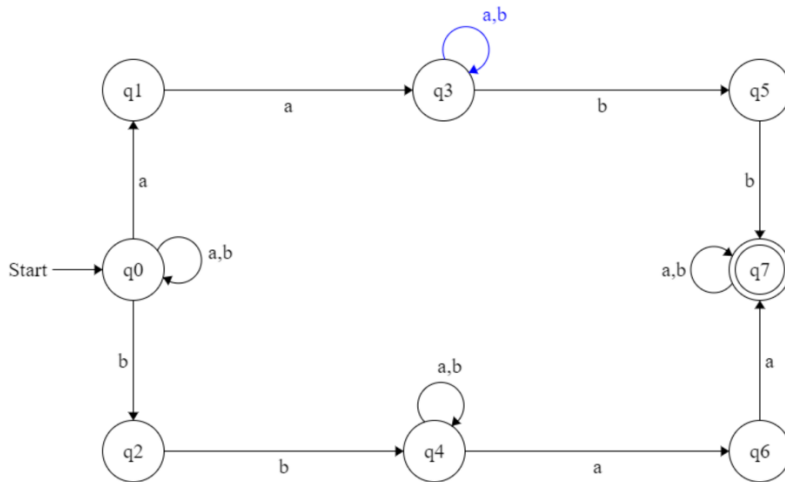
7.

NFA

State	a	b
q0	{q0,q1}	q2
q1	q1	q3
q2	q0	q4
q3	q1	q4
q4	q4	q4

DFA

State	a	b
q0	{q0,q1}	q2
{q0,q1}	{q0,q1}	{q2,q3}
q2	q0	q4
+{q2,q3}	{q0,q1}	q4
+q4	q4	q4



8.

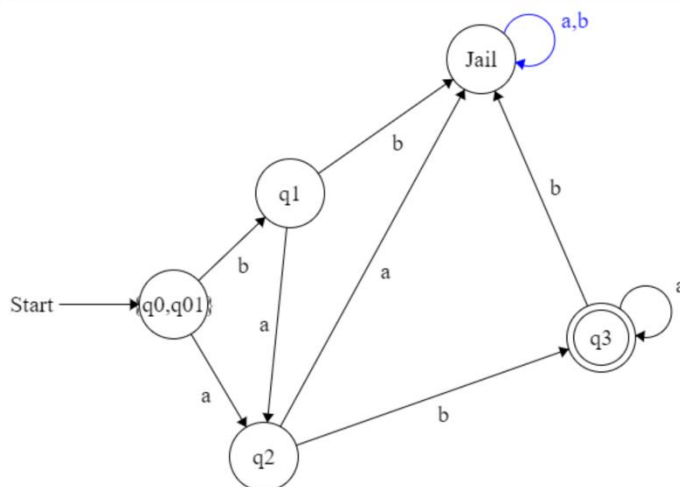
9. NFA

State	a	b	λ
q0	\emptyset	q1	q1
q1	q2	\emptyset	\emptyset
q2	\emptyset	q3	\emptyset
+q3	q3	\emptyset	\emptyset

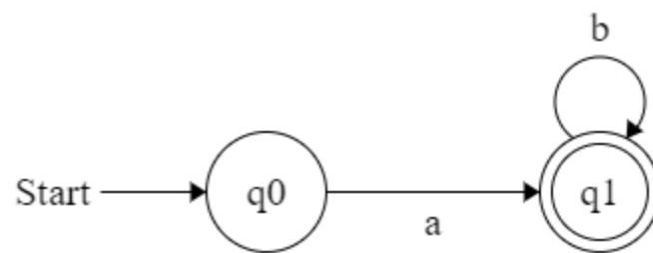
DFA

State	a	b
{q0,q1}	q2	q1
q1	q2	\emptyset
q2	\emptyset	q3
+q3	q3	\emptyset

Finite State Machine Designer



10. NFA



NFA complement

Finite State Machine Designer

