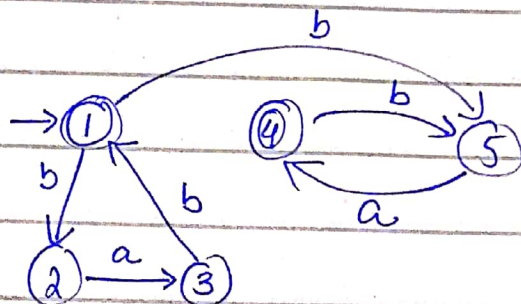
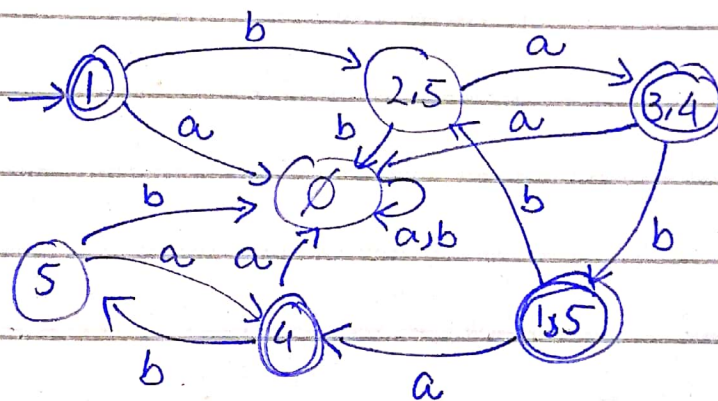


① (a)

	$\delta(q,a)$	$\delta(q,b)$	$\delta^*(q,a)$	$\delta^*(q,b)$
1	$\emptyset$	$\{2\}$	$\emptyset$	$\{2,5\}$
2	$\{3\}$	$\emptyset$	$\{3\}$	$\emptyset$
3	$\emptyset$	$\{1\}$	$\emptyset$	$\{1\}$
4	$\emptyset$	$\{5\}$	$\emptyset$	$\{5\}$
5	$\{4\}$	$\emptyset$	$\{4\}$	$\emptyset$



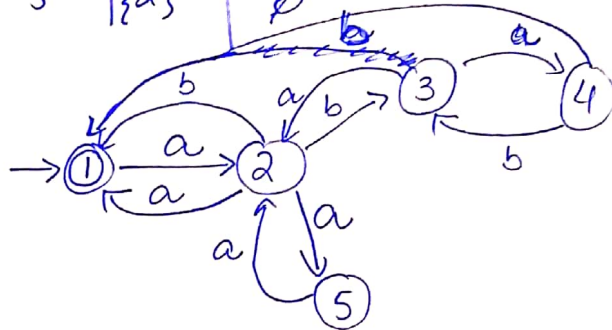
NFA



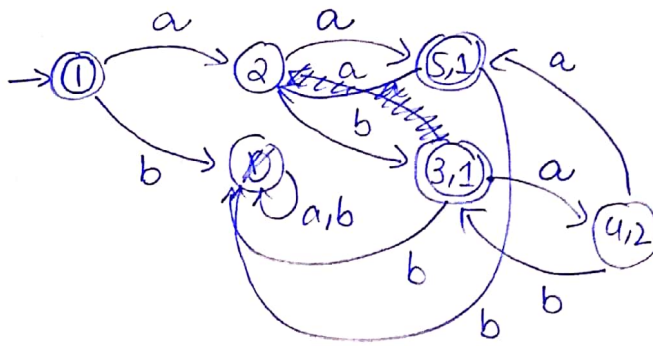
DFA

Q1 (b)

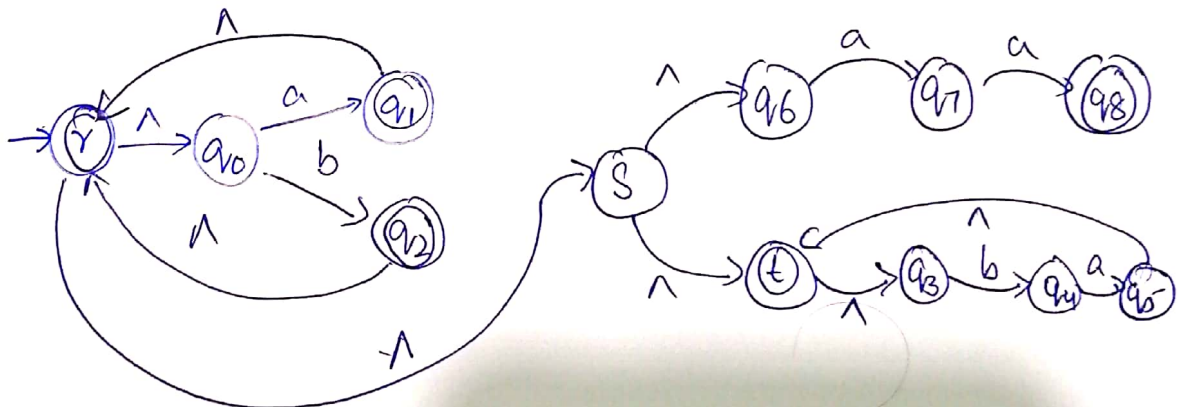
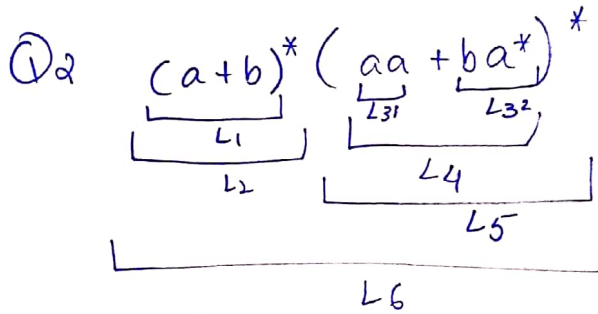
	$\delta^*(q, a)$	$\delta^*(q, b)$
1	$\{2\}$	$\emptyset$
2	$\{5, 1\}$	$\{3, 1\}$
3	$\{4, 2\}$	$\emptyset$
4	$\emptyset$	$\{3, 1\}$
5	$\{2\}$	$\emptyset$



NFA



DFA

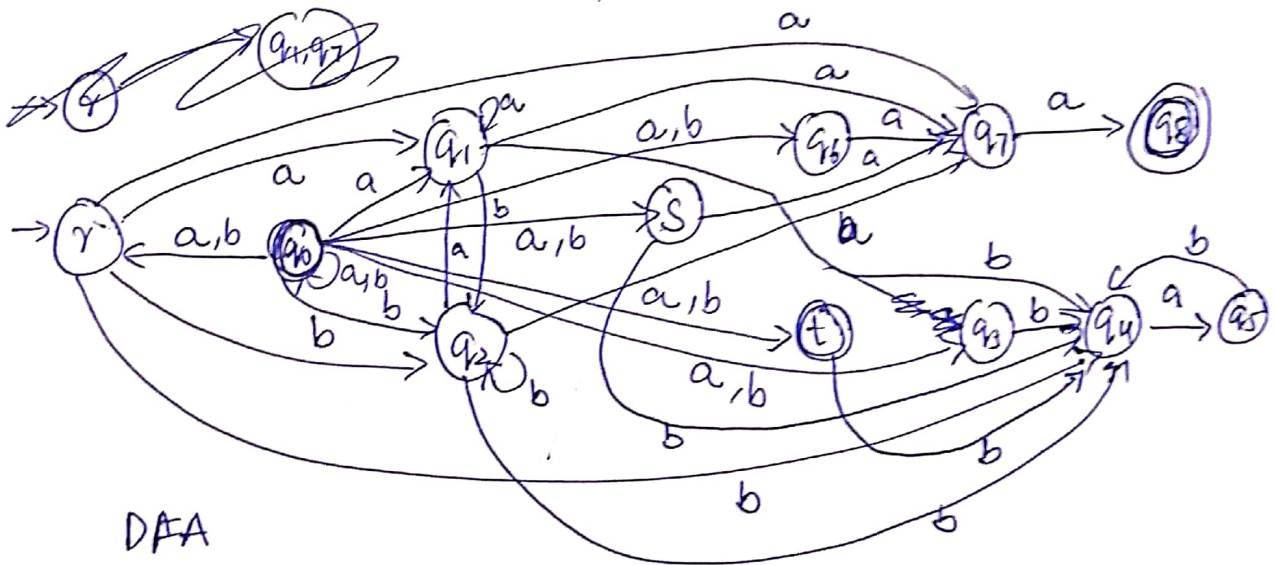


NFA-λ

	$\delta^*(q, a)$	$\delta^*(q, b)$
$\gamma$	$\{q_1, q_7\}$	$\{q_2, q_4\}$
$q_0$	$\{q_1, q_7\}$	$\{q_2, q_4\}$
$q_1$	$\{q_1, q_7\}$	$\{q_2, q_4\}$
$q_2$	$\{q_1, q_7\}$	$\{q_2, q_4\}$
$S$	$\{q_7\}$	$\{q_4\}$
$t$	$\emptyset$	$\{q_4\}$
$q_3$	$\emptyset$	$\{q_4\}$
$q_4$	$\{q_5\}$	$\emptyset$
$q_5$	$\emptyset$	$\{q_4\}$
$q_6$	$\{q_7\}$	$\emptyset$
$q_7$	$\{q_8\}$	$\emptyset$
$q_8$	$\emptyset$	$\emptyset$

$$\{q_1, \gamma, q_0, S, q_6, t, q_3\} \mid \{q_2, \gamma, q_0, S, q_6, t, q_3\}$$

NFA



DFA

