

# HW1

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## 1.1

对  $M_1$  :

- a. 开始状态是  $q_1$
- b. 接受状态集合是  $\{q_2\}$
- c.  $q_1 \rightarrow q_2 \rightarrow q_3 \rightarrow q_1 \rightarrow q_1$
- d. 不接受

对  $M_2$  :

- a. 开始状态是  $q_1$
- b. 接受状态集合是  $\{q_1, q_4\}$
- c.  $q_1 \rightarrow q_1 \rightarrow q_1 \rightarrow q_2 \rightarrow q_4$
- d. 接受

## 1.2

$M_1 : (\{q_1, q_2, q_3\}, \{a, b\}, \delta, q_1, \{q_2\})$

$\delta$  :

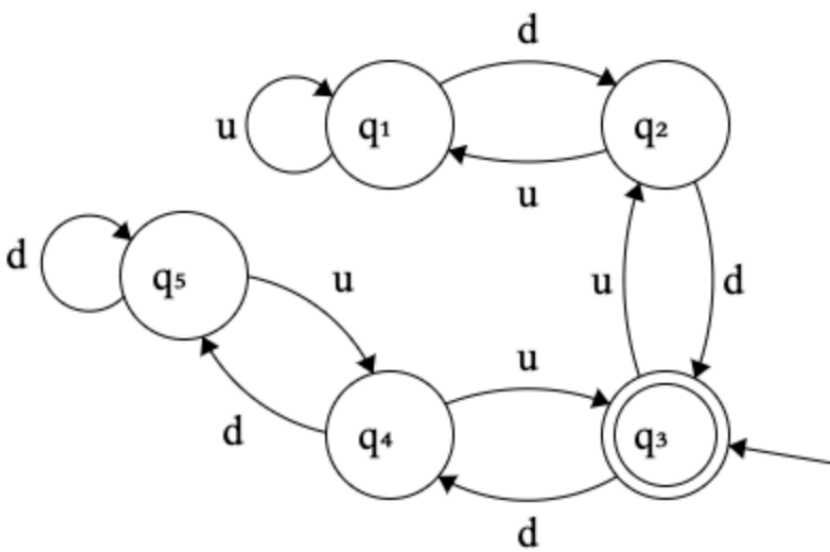
|       | $a$   | $b$   |
|-------|-------|-------|
| $q_1$ | $q_2$ | $q_1$ |
| $q_2$ | $q_3$ | $q_3$ |
| $q_3$ | $q_2$ | $q_1$ |

$M_2 : (\{q_1, q_2, q_3, q_4\}, \{a, b\}, \delta, q_1, \{q_1, q_4\})$

$\delta$  :

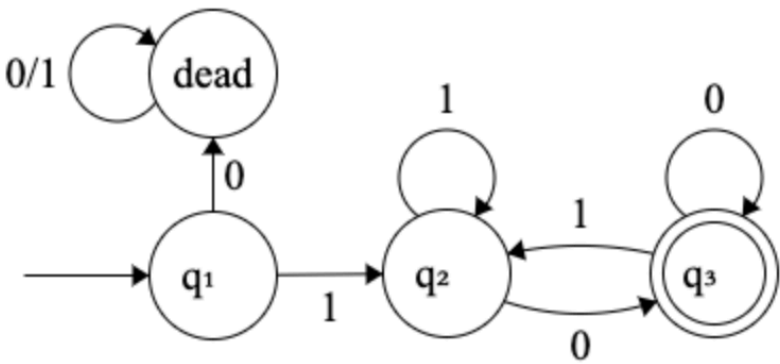
|       | $a$   | $b$   |
|-------|-------|-------|
| $q_1$ | $q_1$ | $q_2$ |
| $q_2$ | $q_3$ | $q_4$ |
| $q_3$ | $q_2$ | $q_1$ |
| $q_4$ | $q_3$ | $q_4$ |

1.3

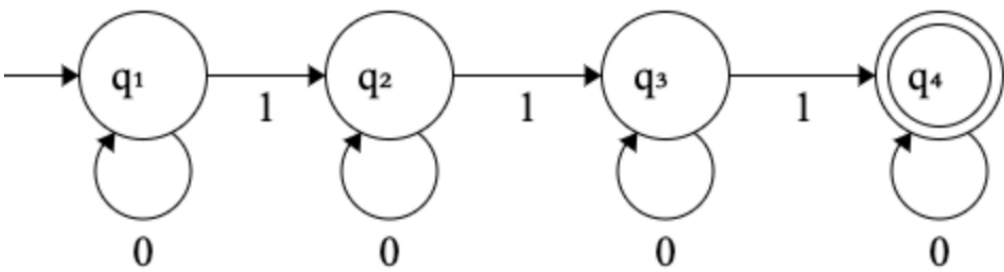


1.6

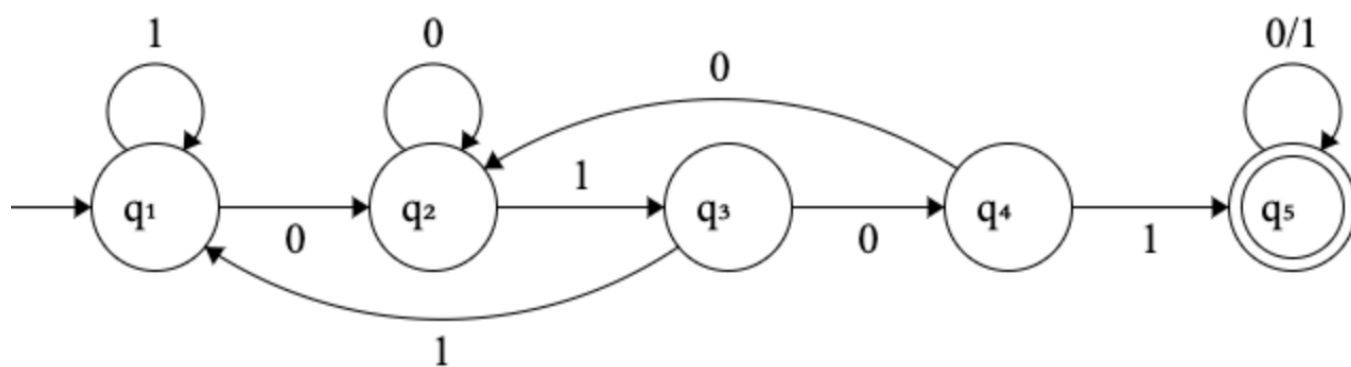
a.



b.



c.



d.

