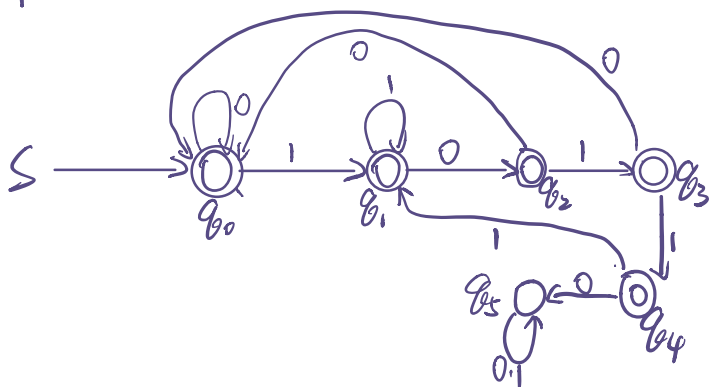
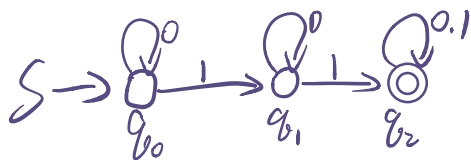


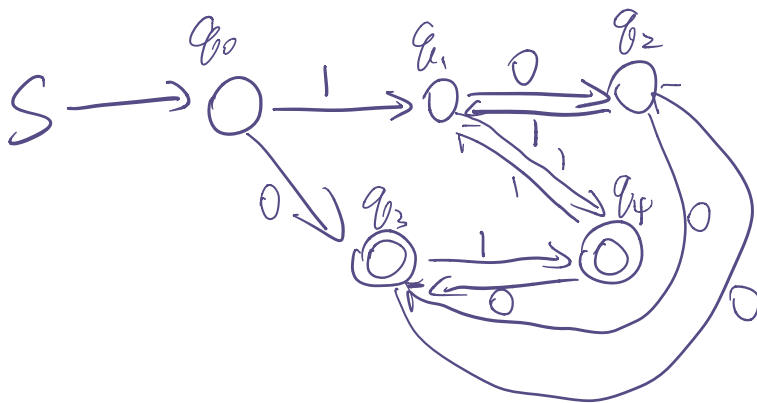
(1) $\{x \mid x \in \{0,1\}^+ \text{ 且 } x \text{ 中不含如 } 10110 \text{ 子串}\}$



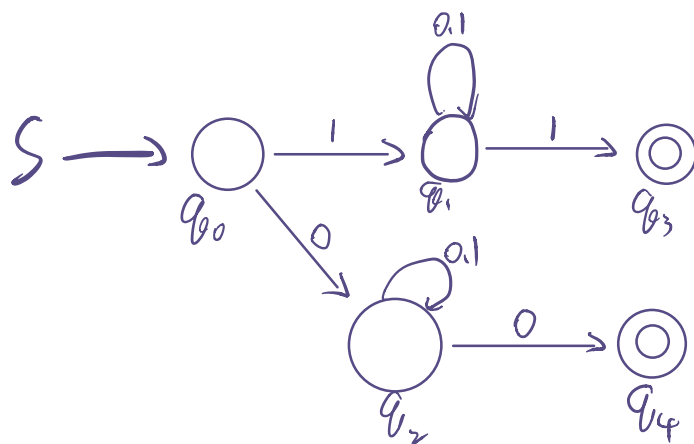
(2) $\{x \mid x \in \{0,1\}^+ \text{ 且 } x \text{ 中至少含有 2 个 } 1\}$



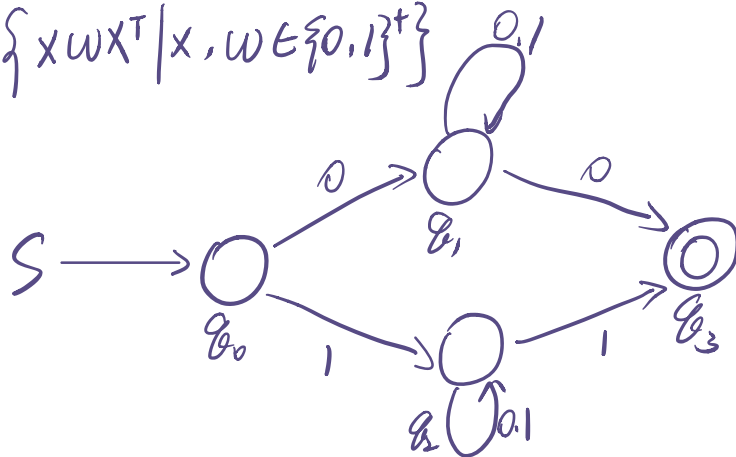
(b) $\{x \mid x \in \{0,1\}^* \text{ 且 如果 } x \text{ 以 } 1 \text{ 结尾, 则它的长度为偶数; 如果以 } 0 \text{ 结尾, 则它的长度为奇数}\}$



(4) $\{x \mid x \in \{0,1\}^+ \text{ 且 } x \text{ 的首字符和尾字符相等} \}$



(5) $\{xwx^T \mid x, w \in \{0,1\}^+\}$



2,

状态

0

1

2.

P_0 (开始)

$\{P_0, P_1\}$

$\{P_0, P_1, P_2\}$

$\{P_0, P_1, P_2, P_3\}$.

P_1

$\{P_0, P_1\}$

\emptyset

\emptyset

P_2

$\{P_0, P_1, P_2, P_3, P_4\}$

$\{P_1, P_2, P_3\}$

$\{P_1, P_2, P_3, P_4\}$

P_3

$\{P_0, P_1, P_3, P_4\}$

$\{P_1, P_3, P_4\}$

$\{P_1, P_3, P_4\}$

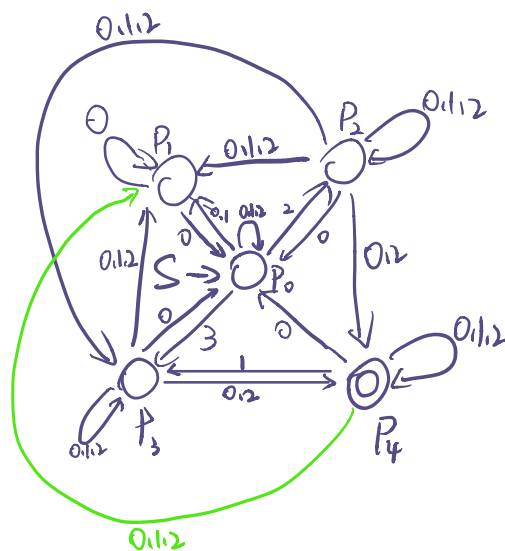
P_4 (结束)

$\{P_0, P_1, P_4\}$

$\{P_1, P_3, P_4\}$.

$\{P_1, P_4\}$

板



3.

状态	0	1	2
$\{P_0, P_1\}$	$\{P_0, P_1\}$	$\{P_0, P_1, P_2\}$	$\{P_0, P_1, P_2, P_3\}$
$\{P_0, P_1, P_2\}$	$\{P_0, P_1, P_2\}$	$\{P_0, P_1, P_2\}$	$\{P_0, P_1, P_2, P_3, P_4\}$

$\{P_0, P_1, P_2, P_3\}$ $\{P_0, P_1, P_2, P_3\}$ $\{P_0, P_1, P_2, P_3\}$ $\{P_0, P_1, P_2, P_3, P_4\}$

$\{P_0, P_1, P_2, P_3, P_4\}$ $\{P_0, P_1, P_2, P_3, P_4\}$ $\{P_0, P_1, P_2, P_3, P_4\}$ $\{P_0, P_1, P_2, P_3, P_4\}$

令 $Q_0 = \{P_0, P_1\}$ (接收) $Q_1 = \{P_0, P_1, P_2\}$ $Q_2 = \{P_0, P_1, P_2, P_3\}$

$Q_3 = \{P_0, P_1, P_2, P_3, P_4\}$ (接收)

