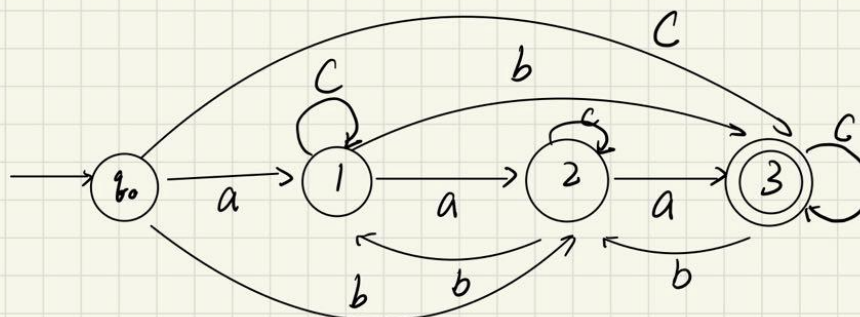
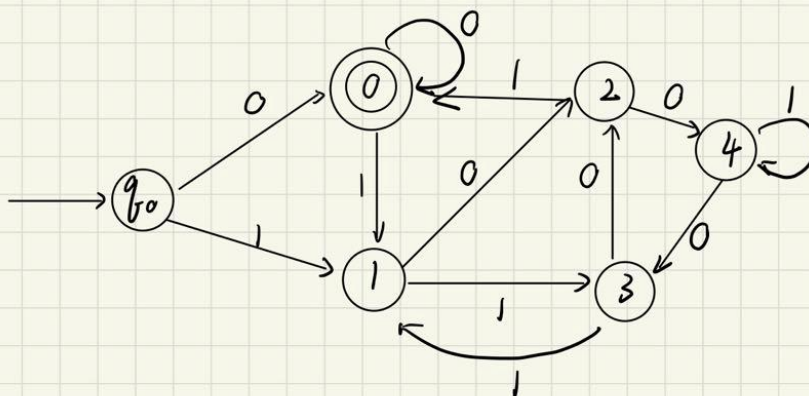


2-17



$a \in \{a \mid a \equiv 1 \pmod{3}, a \in \mathbb{N}, 0 \leq a \leq 9\}$
 $b \in \{b \mid b \equiv 2 \pmod{3}, b \in \mathbb{N}, 0 \leq b \leq 9\}$
 $c \in \{c \mid c \equiv 0 \pmod{3}, c \in \mathbb{N}, 0 \leq c \leq 9\}$

2-18





2-19. 1, 形式定义

$$M = (\{0, 1, 2, 3, 4, 5, 6\}, \{a, b\}, f, 0, \{6\})$$

$$f(0, a) = 1 \quad f(1, \epsilon) = 2$$

$$f(2, a) = 2 \quad f(2, b) = 2 \quad f(2, \epsilon) = 3$$

$$f(3, a) = 4 \quad f(4, b) = 5 \quad f(5, a) = 6$$

状态矩阵

	a	b	ϵ
0	{1}		
1			{2}
2	{2}	{2}	{3}
3	{4}		
4		{5}	
5	{6}		
6*			

2)

	I_a	I_b
{0}	{1, 2, 3}	
{1, 2, 3}	{2, 3, 4}	{2, 3}
{2, 3, 4}	{2, 3, 4}	{2, 3, 5}
{2, 3}	{2, 3, 4}	{2, 3}
{2, 3, 5}	{2, 3, 4, 6}	{2, 3}
*{2, 3, 4, 6}	{2, 3, 4}	{2, 3, 5}

对状态重命名后

DFA M'	I_a	I_b
0	1	
1	2	3
2	2	4
3	2	3
4	5	3
5*	2	4

3) $0 \xrightarrow{a} 1 \xrightarrow{a} 2 \xrightarrow{b} 4 \xrightarrow{a} 5^*$ $0 \xrightarrow{a} 1 \xrightarrow{b} 3 \xrightarrow{a} 2 \xrightarrow{b} 4 \xrightarrow{a} 5^*$ $0 \xrightarrow{a} 1 \xrightarrow{a} 2 \xrightarrow{a} 2 \xrightarrow{b} 4$ 识别 $aaba, ababa$ 2-26. 1) $(b|c)^* | (a|b|c)^*$ 2) $(b|c)^* a (b|c)^* a (b|c)^*$ 3) $1(1|0)^* 00|0$ 4) $1(1|0)^6(1|0) | 11(1|0)^4 | 1011(1|0)^2 | 10101(1|0)$ 5) $a|b^*ba|b^*a|b^*|a|b^*ba|b^*|a^*$ 6) $0(1|2|3|4|5|6|7)(0|1|2|3|4|5|6|7)^*(1|2|3|4|5|6|7|8|9)(0|1|2|3|4|5|6|7|8|9)^*|0$