



中山大學

SUN YAT-SEN UNIVERSITY

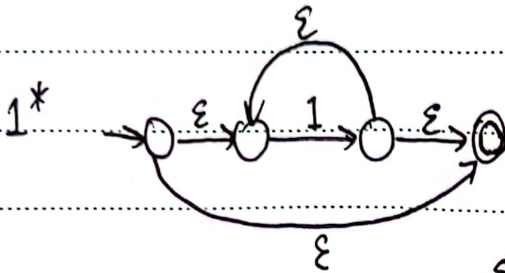
中国·广州市新港西路135号

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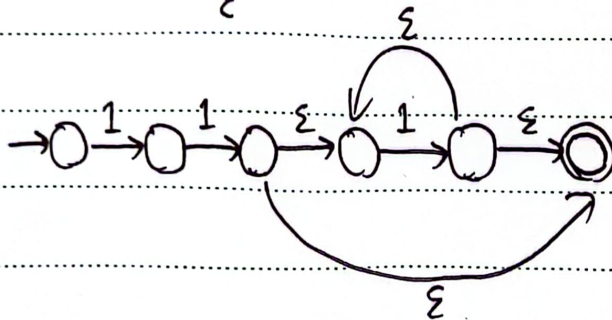
邮编: 510275

21307099 李英竣

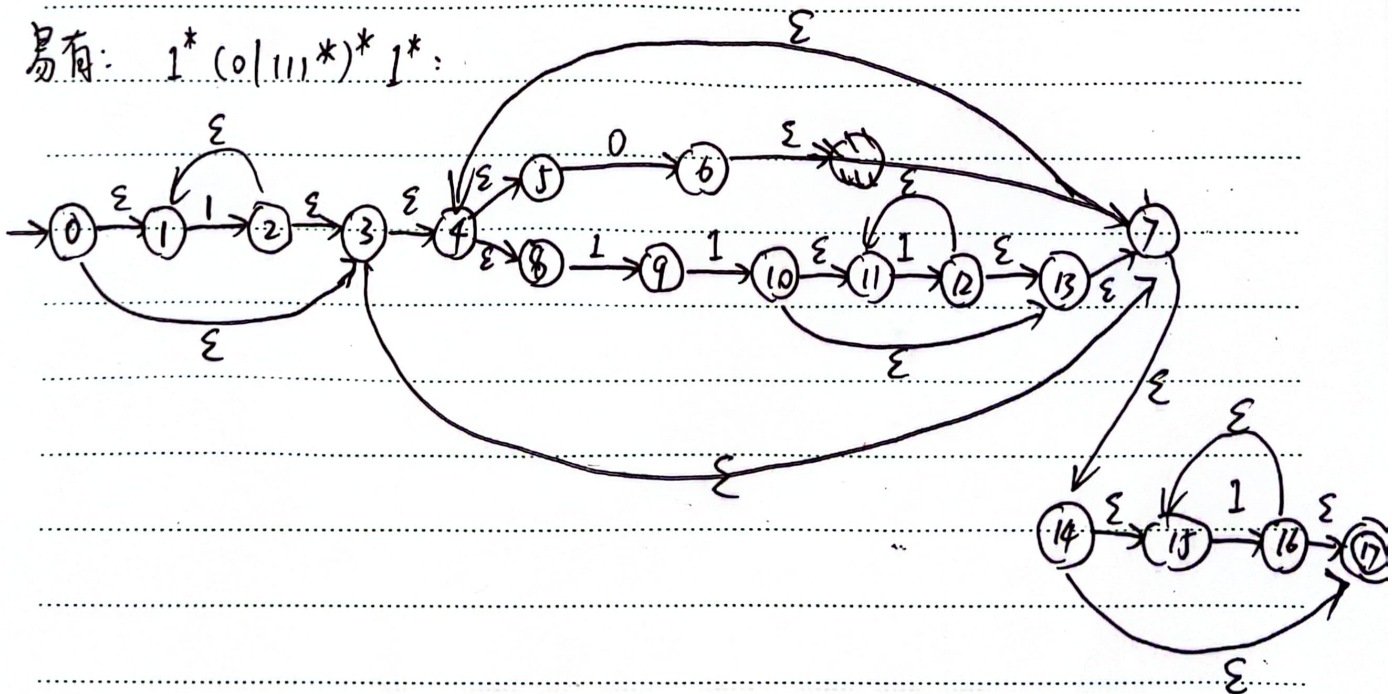
1.



111*



易有: $1^*(0|111^*)^*1^*$





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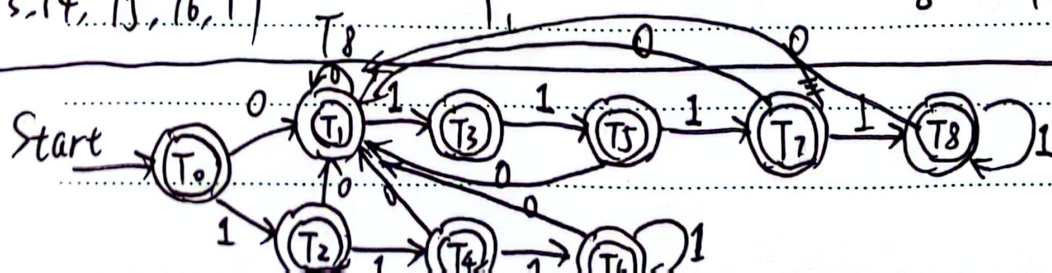
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I	I_0	I I_1	Accept
0, 1, 3, 4, 5, 7, 8, T_0 14, 15, 17	4, 5, 6, 7, 14, 15, 17 T_1 8	1, 2, 9, 16, 3, 4, 5, 8, 7 14, 15, 17 T_2	Y Y
4, 5, 6, 7, 8, 14, 15, 17 T_1	T_1	9, 16, 15, 17, T_3	Y Y
12, 3, 4, 5, 7, 8, 9, 14, 15 16, 17 T_2	8 T_1	2, 9, 10, 16, 1, 3 4, 5, 7, 8, 11, 13, 14, 15, 17. T_4	Y
9, 15, 16, 17 T_3	/	10, 16, 11, 13, 7, 4, 14, 5, 8, Y 15, 17. T_5	
1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17 T_4	T_1	2, 9, 10, 12, 16, 1, 3, 4, 5, 7, 8, Y 11, 13, 14, 15, 17 T_6	
4, 5, 7, 8, 10, 11, 13, 14, 15, 16, 17 T_5	T_1	8, 12, 16, 11, 13, 7, 4, 5, 8, 14, 15, Y 17, T_7	
1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 T_6	T_1	2, 9, 10, 12, 16, 1, 3, 4, 5, 7, 8, Y T_6	
4, 5, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17 T_7	T_1	8, 10, 12, 16, 11, 13, 7, 4, 5, 8, 14, Y 15, 17 T_8	
4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 T_8	T_1	9, 10, 12, 16, 1, 3, 4, 5, 7, 8, Y T_8	



(3) 可接受集: $\{T_0 \dots T_8\}$
 不可接受集: $\{T_1\}$

对 T_3 以外的状态: $Move(\{T_0, T_2, T_4 \dots T_8\}, 0) = T_1$

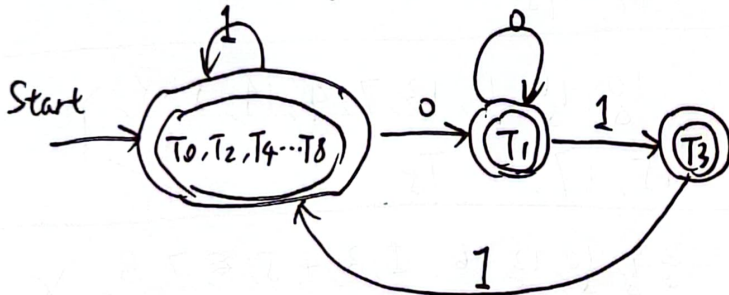
可作划分: $\{T_3\}, \{T_0, T_1, T_2, T_4, T_5, T_6, T_7, T_8\}$

而其中, 除 T_1 的 I_1 为 \emptyset 外, 其他状态的 I_i 均在原集合中.

作划分: $\{T_1\}, \{T_3\}, \{T_0, T_2, T_4, T_5, T_6, T_7, T_8\}$

I	I_0	I_1	Accept
T_1	T_1	T_3	γ

Σ T_3 \setminus $\{T_0, T_2, T_4, \dots T_8\} \gamma$
 $\{T_0, T_2, T_4, \dots T_8\} T_1$ $\{T_0, T_2, T_4, \dots T_8\} \gamma$

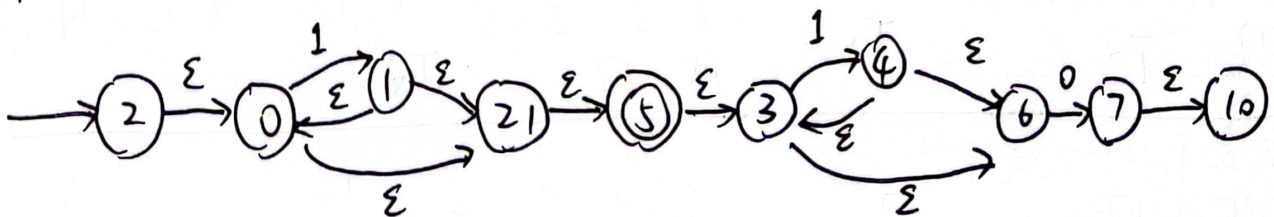


2.

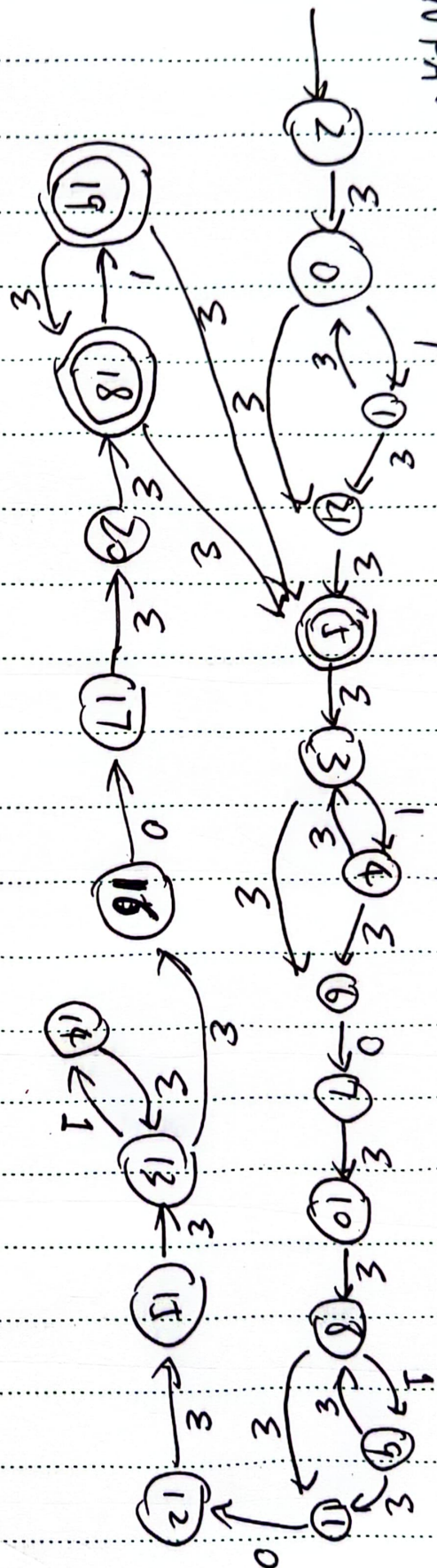
1. $1^*(1^* 0 1^* 0 1^* 0 1^*)^*$

用于匹配 $0^n 1^n$ 的情形 (全1串) 用于匹配 $3n$ 个0, 其中每个0之间可有任意个1

NFA:



NFA:



DFA:

