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确定有限自动机

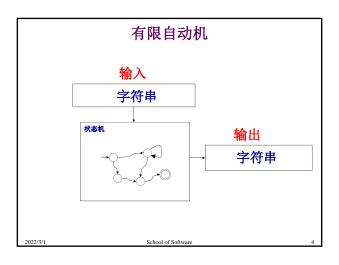
- 确定有限自动机的概念
- 确定有限自动机的定义
- 扩展转移函数
- 正则语言
- · DFA的构造

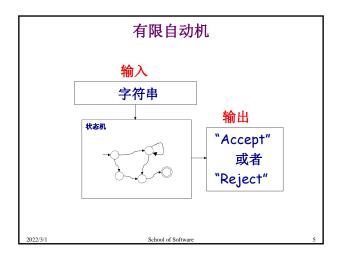
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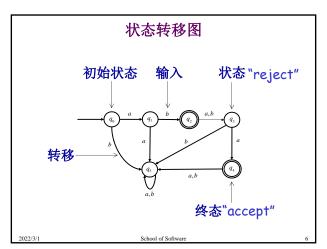
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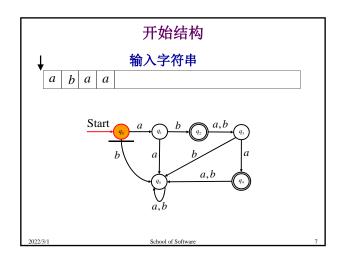
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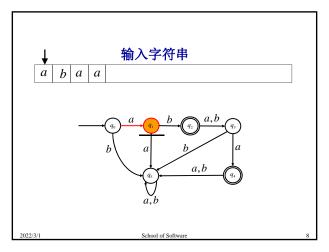
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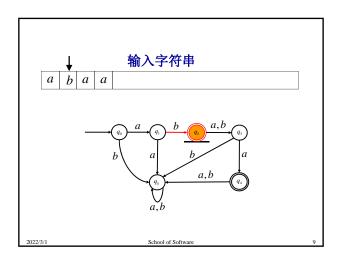


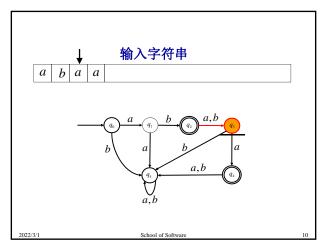


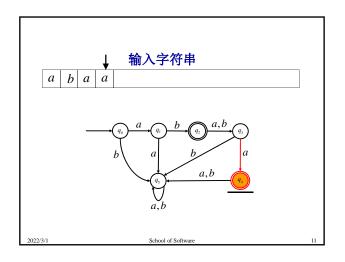


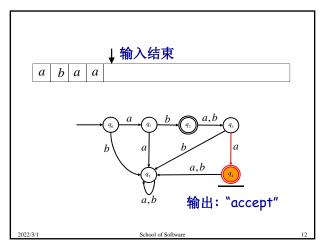


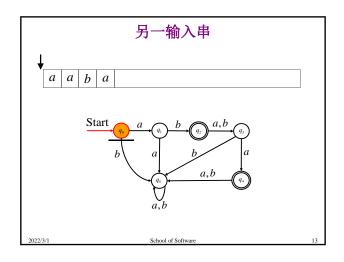


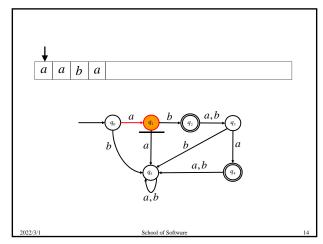


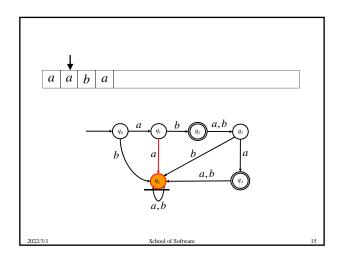


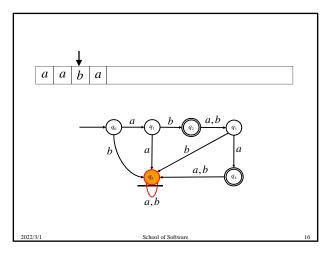


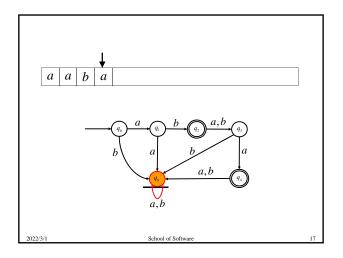


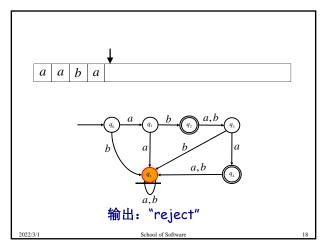


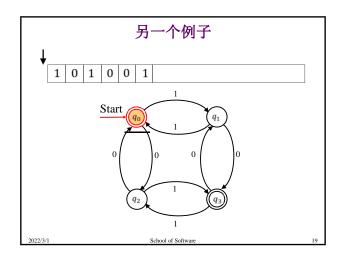


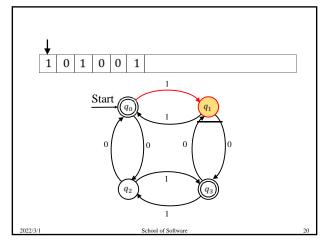


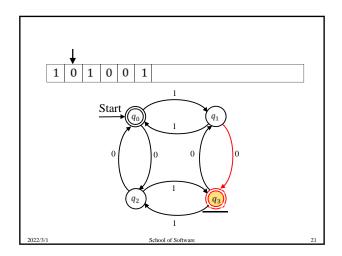


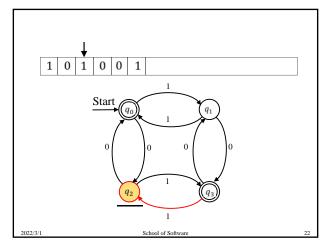


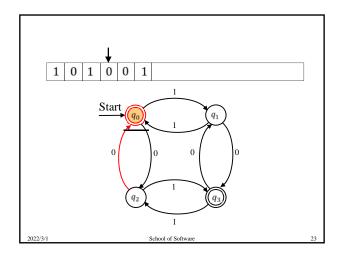


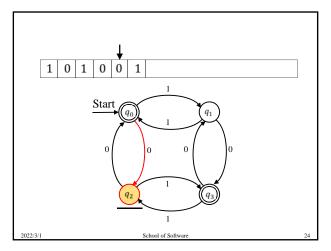


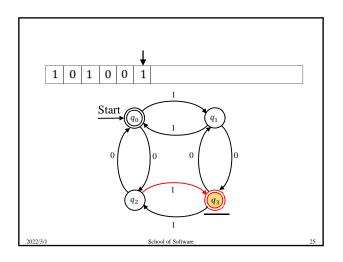


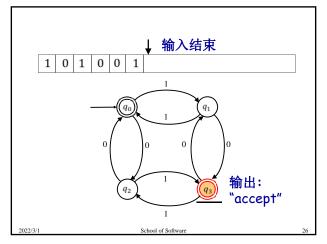


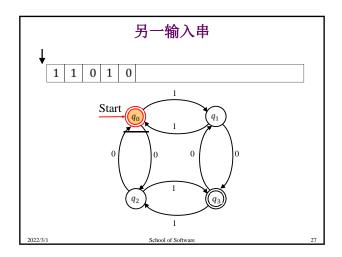


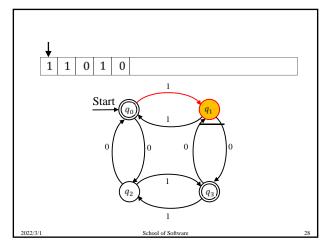


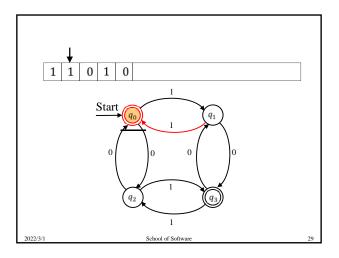


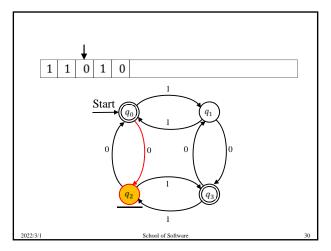


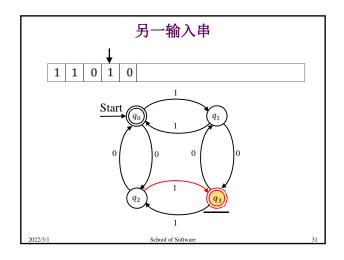


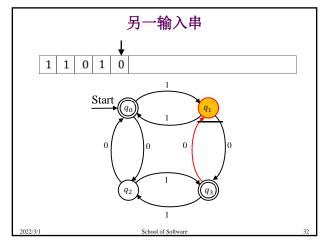


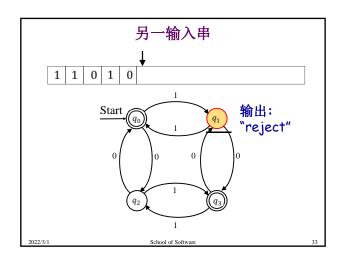


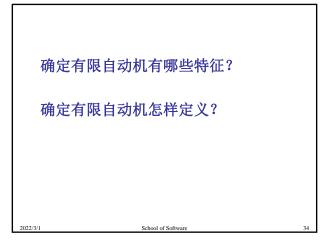






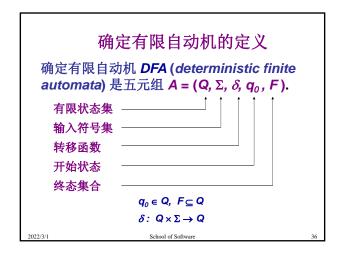


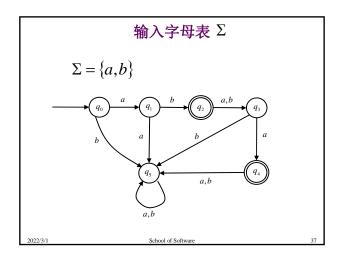


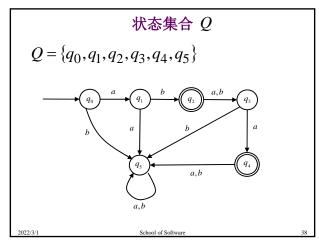


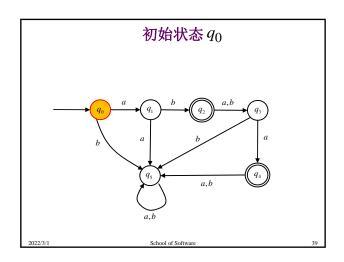
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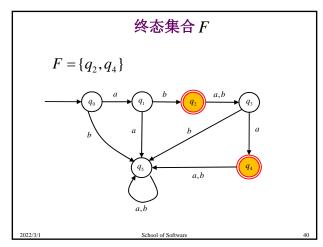
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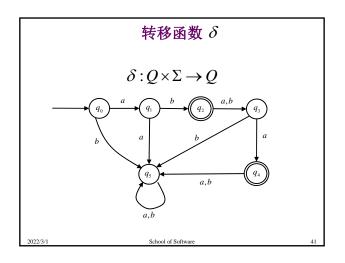


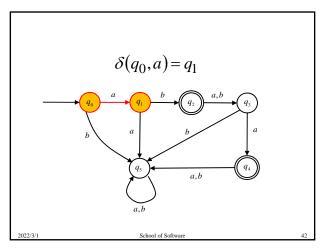


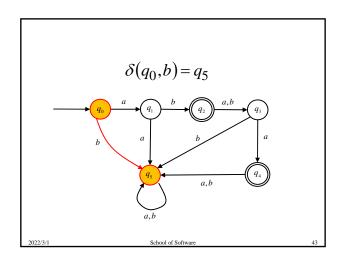


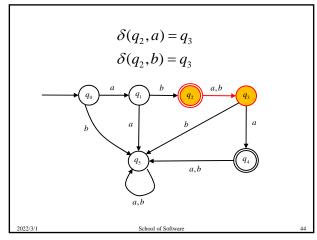


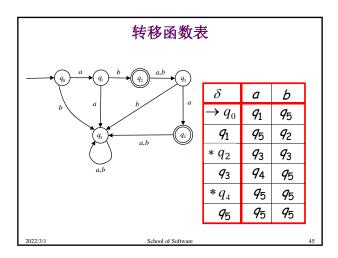


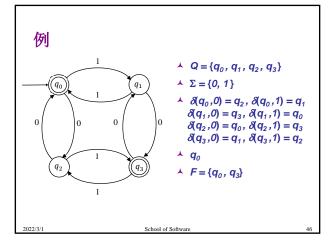


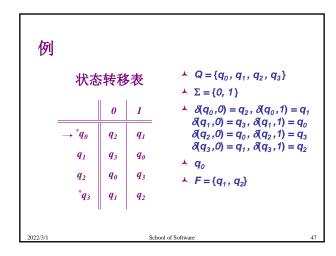






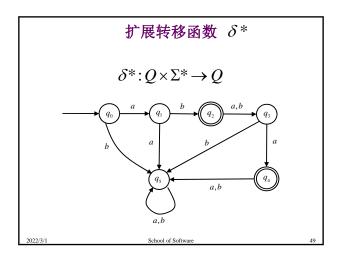


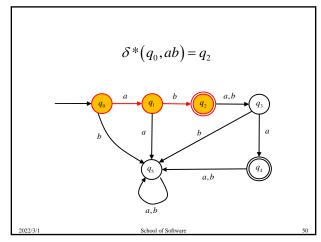


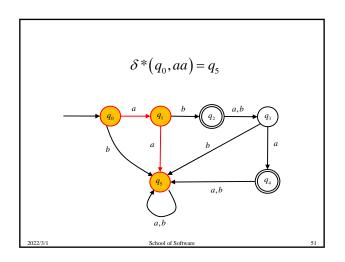


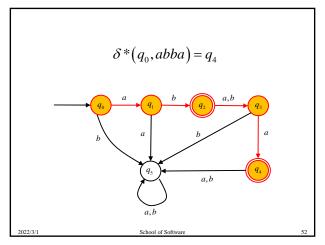
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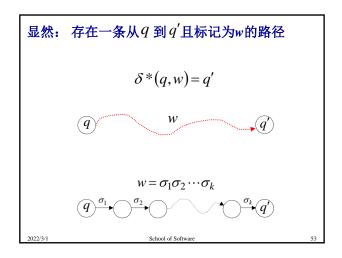
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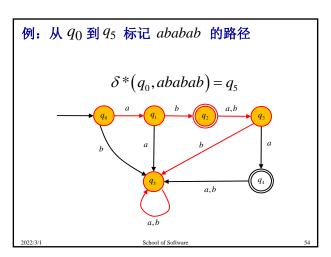


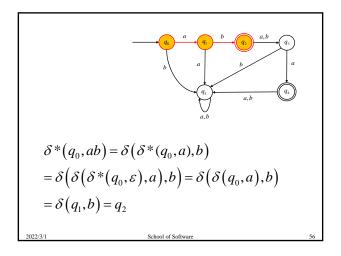


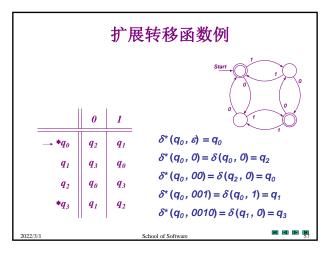


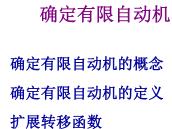












- 正则语言
- · DFA的构造

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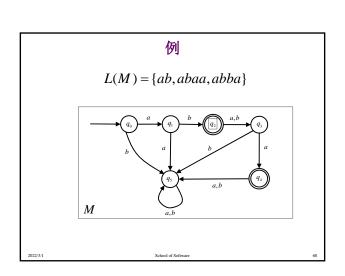
DFA接受的语言

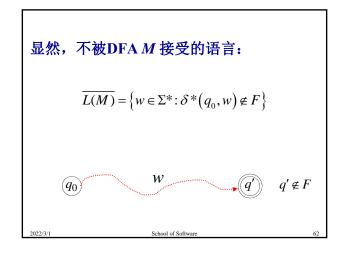
定义:

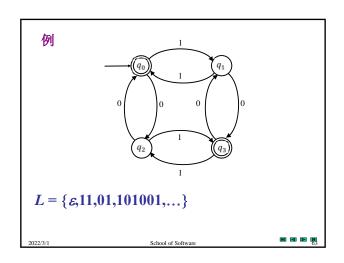
- 设 DFA 为M,由M接受的所有字符串构成的集合称为M的语言,记为L(M),即:
 L(M) = {M 中从初态到终态的串}
- DFA接受的语言称为正则语言(Regular Language),即:

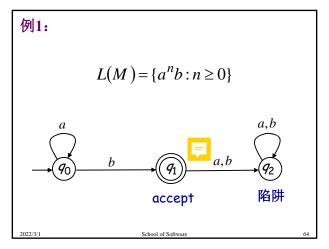
正则语言= $\{L(M)|M$ 是DFA $\}$

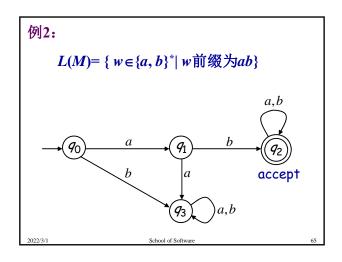
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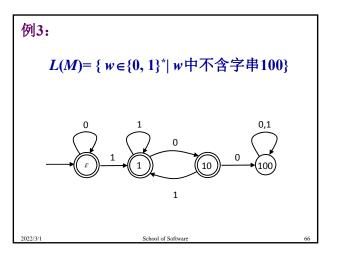


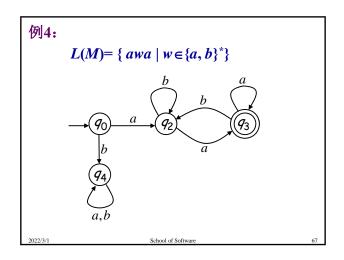


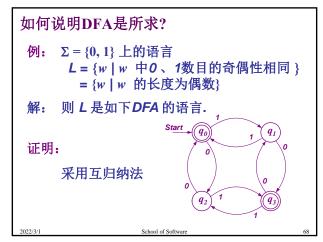












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Examples



- Σ ={0,1}. 分别构造下列语言的DFA
- 1. L={w | 最后字母为1}
- 2. L={w / w 倒数第二个字母为1}
- 3. L={w / w 倒数第三个字母为1}
- 4. L={w/w倒数第10个字母为1}

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课后练习

必做题:

- P-53: Ex.2.2.2
- P-54: *Ex.2.2.4* (b), (c)
- P-54: Ex.2.2.5 (a), (c), (d)
- P-54: Ex.2.2.10
- ·构造接受倒数第三个字符是1的DFA。

思考题:

- P-54: *Ex.2.2.5* (b)
- P-54: Ex.2.2.6
- $L = \{ w \mid w \text{ 中 } 0,1 \text{ 数目的奇偶性相同 } \}$ (PPT 65页) $E\Sigma = \{ 0, 1 \}$ 上的语言。证明 L 是正则语言.

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Thank You

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