自动机 & 题目

正规式转 DFA

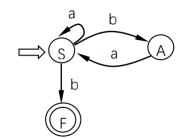
要先转成 NFA,再写状态,划分状态,再化简,最后画DNF吧

给定正规文法 G:

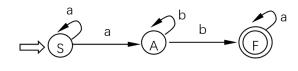
 $S \rightarrow aS | bA | b$

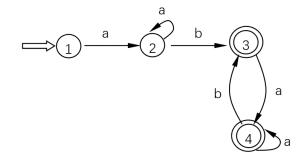
 $A \rightarrow aS$

请构造与之等价的有限自动机。



对下面给出的 NFA 确定化。





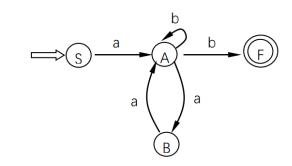
给定正规文法 G:

 $S \rightarrow aA$

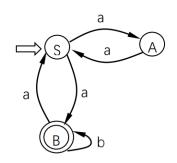
 $A \rightarrow bA \mid aB \mid b$

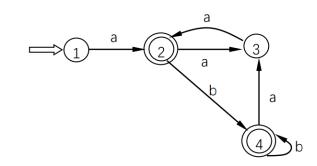
В→аА

请构造与之等价的有限自动机。



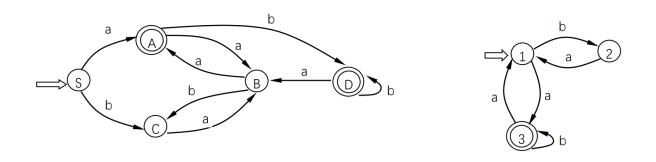
对下面给出的 NFA 确定化。



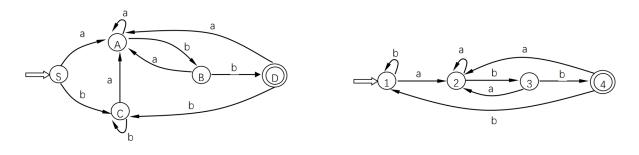


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对下面给出的 DFA 最小化。



对下面给出的 DFA 最小化。

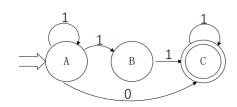


3.设有非确定的有自限动机 NFA M=({A, B, C}, {0, 1}, δ , {A}, {C}),其中: $\delta (A, 0) = \{C\} \quad \delta (A, 1) = \{A, B\} \quad \delta (B, 1) = \{C\} \quad \delta (C, 1) = \{C\} \quad \delta (B, 1)$

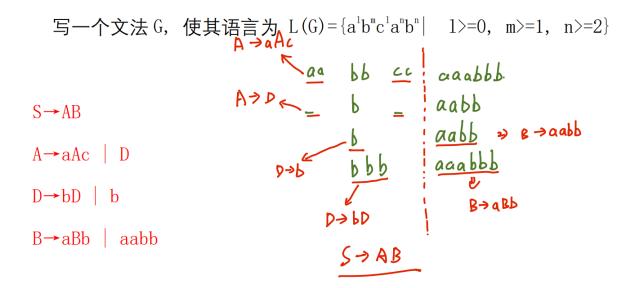
状态转换距阵为:

δ	0	1
А	С	A, B
В	Ø	С
С	Ø	С

状态转换图为:_



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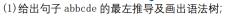
已知文法 G(S)

S→aAcBe

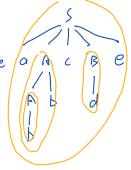
A→Ab| b

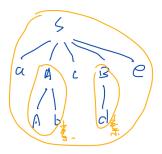
B→d

OACBE = abbase = abbade



(2)给出句型 aAbcde 的短语、素短语。





- (1) $S=\geq aAcBe=>abbcBe=>abbcde$
- (2) 短语: aAbcde, Ab, d

素短语: Ab, d