learn and let learn

Automada
Week 13
5/22/2019

软73
[illegible]
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learn and let learn

7.4.1 (b) ~~先将~~ ~~若判断S是否能产生ε(空产生式)~~

~~再化为Chomsky范式~~

先去除无用/单一/ε产式，化为Chomsky范式

① 先判定是否无限：无限的话 Dependency Graph 中有环

否则无环

若无限，则必有100个串

② 若有限，则 Dependency Graph 无环

则可用深度优先搜索 搜索S所有的串，看是否有100个

2.43 (c)

Z algorytmu Cocke'a-Younger'a-Kasami'ego, $n=5$

$X_{11} = \{A, C\}$ $X_{22} = \{A, C\}$ $X_{33} = \{B\}$ $X_{44} = \{A, C\}$ $X_{55} = \{B\}$

AB, CB — BA, BC — AB, CB

$X_{12} = \{B\}$ $X_{23} = \{S, C\}$ $X_{34} = \{A, S\}$ $X_{45} = \{C, S\}$

11+23, 12+33 — 23+44, 22+34 — 34+55, 33+45

$X_{13} = \{B\}$ $X_{24} = \{B\}$ $X_{35} = \{S, C\}$

11+24, 12+34, 13+44 — 22+35, 23+45, 24+55

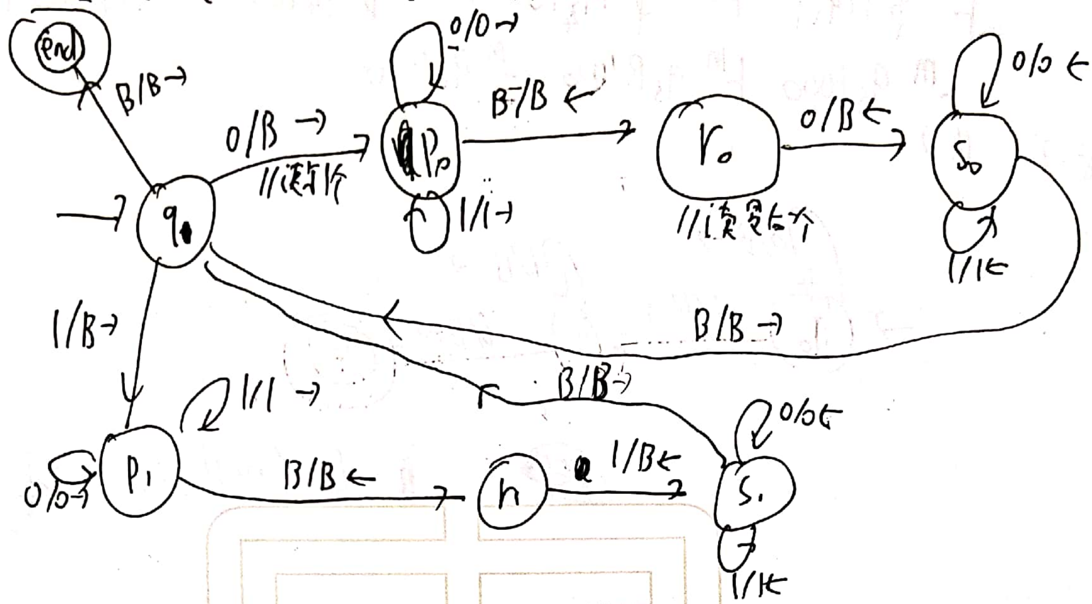
$X_{14} = \{S, A, C\}$ $X_{25} = \{B\}$

11+25, 12+35, 13+45, 14+55

$X_{15} = \{S, C\}$ $S \in X_{15}$ ✓ @ $aabab \in L(G)$

8.2.2 (c)

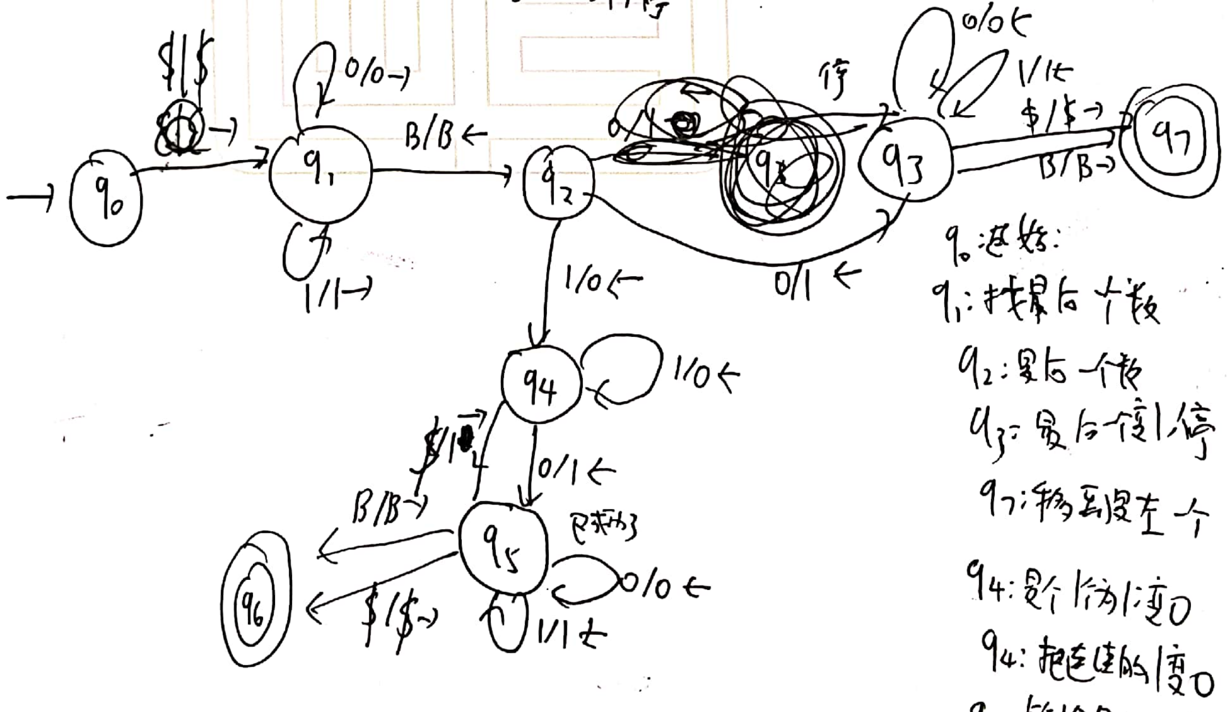
令 Σ = {0, 1}, Γ = {0, 1, B}



8.2.3: (1) 补: 先扫描到最后一位

若为0: →1, 停止

为1: →0, 向左移 { 仍为1: →0, 向左; 为0: →1, 停 }



q0: 准备

q1: 找最后一个数

q2: 最后一个数

q3: 最后一位1/停

q7: 移到最左一个

q4: 最个位为1变0

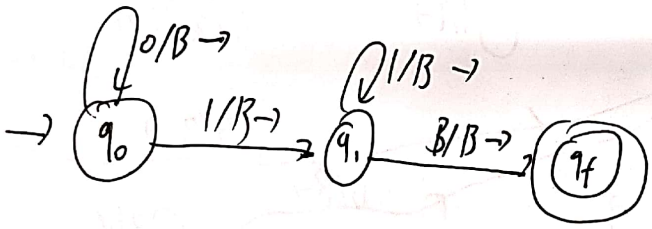
q4: 把连续的1变0

q5: 第1个遇到0 / 肯定会把它变为1

q6: 找第1位

(2) $(q_0\$111) \vdash^m \$q_1111 \vdash^m \$1q_111 \vdash^m \$11q_11 \vdash^m \$111q_1B$
$\vdash^m \$11q_21 \vdash^m \$1q_410 \vdash^m \$q_4100 \vdash^m q_4\$000 \vdash^m 1q_5000$
$\vdash^m q_51000 \vdash^m q_5B1000 \vdash^m q_61000$

8.2.5 (6)



解 $L=\{0^i1^j \mid i\geq 0, j\geq 1\}$