编译原理第3次作业:

43.1

(a) 元左公园子.

(b)不能, 反弦中存在 左遥归, 会无限循环.

(c) rexpr → return rexpr'
rexpr' → + rterm rexpr' | \varepsilon \text{.}

rterm → r factor rterm'
rterm' → rfactor rterm' | \varepsilon \text{.}

rfactor → r primary r factor'

rfactor' -> * rfactor' | q.

 $rprimary \rightarrow alb.$

的适用.

4.6.5

(1) first (AaAb) = (first (A)-2) V first (aAb) = {a}.

first (BbBa) = (first (B)-2) V first (bBa) = {b}.

first (AaAb) ハ first (BbBa) = Ø.

松足 以(1) 灵法.

⟨2⟩ S'→S

S→AaAb

S→BbBa.

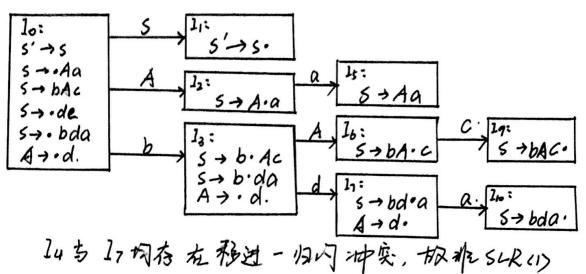
A→C

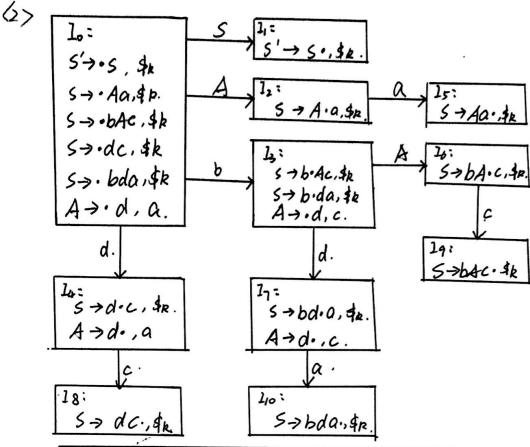
B→C.

lo: S'→·S S→·AaAb S→·BbBa A→· B→·

follow (A) 1 follow (B) + \$\phi\$

弹3 归约一归约神经, 城是 SLR(1)





States	Action				Go To.		
	a	b	C	d.	\$k	S	A
0		53		54		l.	2.
1					au		
2	55					100	
3		-1		Si			6
4	r5		58.	2 - 1141			
**					7,		
6			59				
7	Sia		15.				
8					13		Š
9					Yz		
lo					r4 .		

满足以以 且礼同心物, TOR LALKU) 4.6.6.

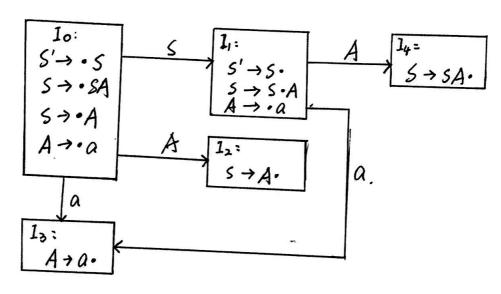
(1) first (SA) = {a}.

first (A) = {a}.

first (SA) A first (A) # 0.

极难上以为流流。

 $\begin{array}{ccc} \langle 2 \rangle & S' \rightarrow S \\ & S \rightarrow SA \\ & S \rightarrow A \\ & A \rightarrow a \end{array}$



c	Act	ion	GoTo		
States	a	\$k	. 5	ĬA	
0	53			2	
i.	53	au	Barreton State	4	
2	72	Y2			
3	13	Y3		E	
4	r_1	γ,		grani i de la compania del compania del compania de la compania del compania de la compania del compania de la compania de la compania de la compania de la compania del compania del compania del compania del compania del la compania del	

不存在冲突, 松为 SLR(1).

4.7.4 [S → AalbAc | dc | bda] [A → d.

(1) 5'→5

S>Aa

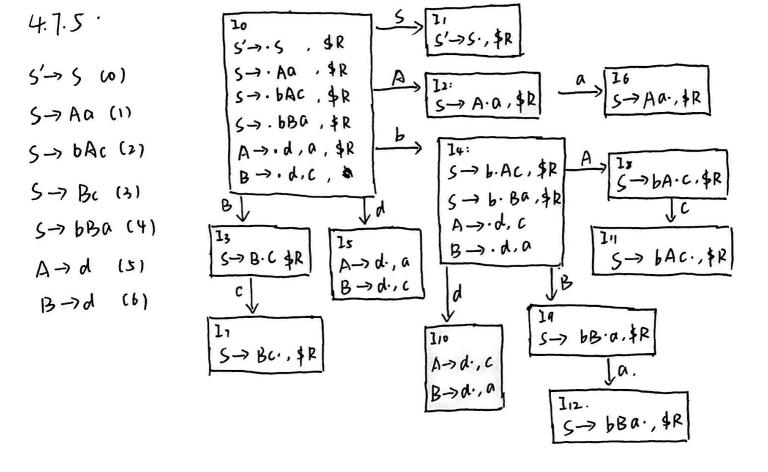
S->bAC

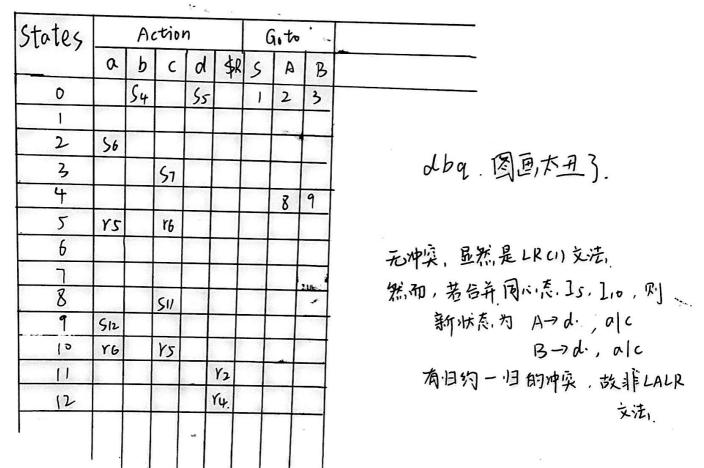
S >dc.

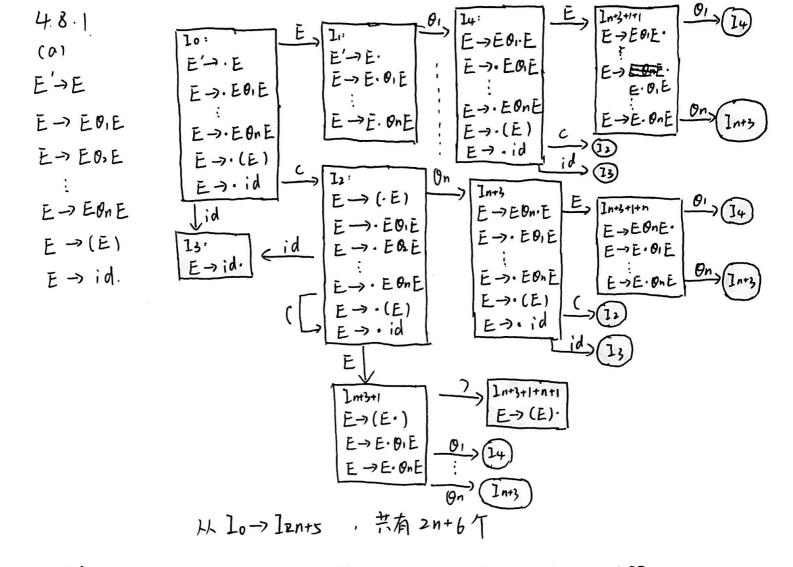
5->bda

A>d.

3







(b) 当埃生冲突,则根据终结符的优先级进行移进/归约处理。 (优先级设计符后题意即可)

CH-4 exercises

1. ①消除左连归:

②提取最大左公园子

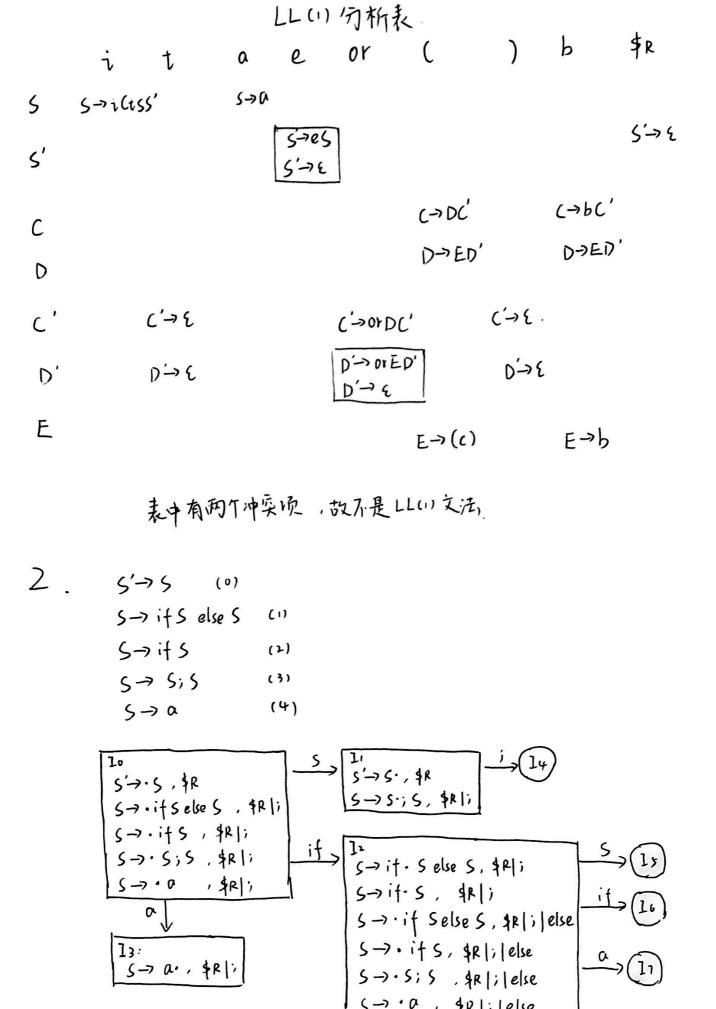
$$S \rightarrow iCtSS' | \alpha$$

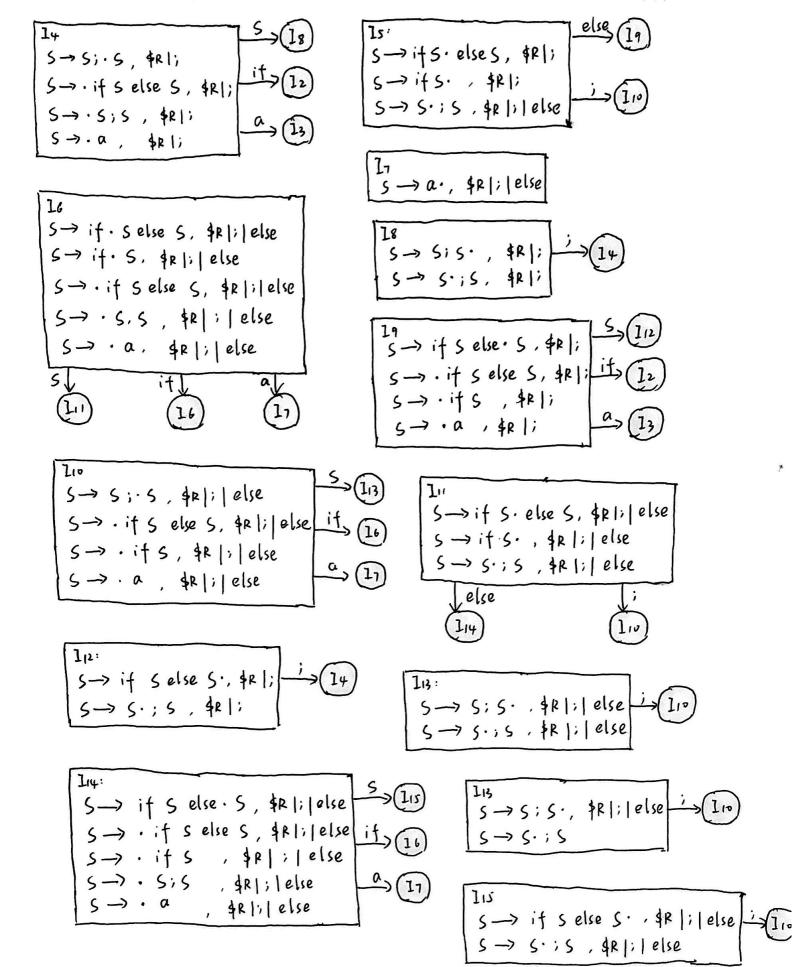
 $S' \rightarrow eS | \epsilon$
 $C \rightarrow DC'$
 $C' \rightarrow or DC' | \epsilon$
 $D \rightarrow ED'$
 $D' \rightarrow or ED' | \epsilon$
 $E \rightarrow (c) | b$

③构造山(1)分析表

first
$$(s) = \{i, a\}$$

first $(s') = \{e, \epsilon\}$
first $(c) = \{irst(D) = \{irst(E) = \{c, b\}\}$
first $(c') = \{or, \epsilon\}$
first $(D') = \{or, \epsilon\}$





		Action		Goto		
States	if	else	_ i	[a	\$R	S
0	52			53		1
1			54	× 100	acc	
Z	56			. 57		5
3			7 4		rų	· ·
4	52			53		8
<u>5</u>		59	510 12	1	r 2	
6	56			57		11 .
7		r4	r4		r4	
8			54 r3	J	rz	
9	ς2			53		12
10	56			57		13
ı 1		\$14 r2	510 Y2		۲z	*
12			54 r1		rı	58
13		rz	510 13		۲۶	
14				\$7.		15
12.		rı	510 Y1		rı	*

:附加条件 1°, 故 12 [3]:条件 2°, 故 13

附加条件(参考)

附加条件2°,故写 一部:条件1°,故门

1° if , else 优先级高于;

: 附加条件3°,故S14

) 左结台

50 : 附加条件1°,故以

3° else 与最近的和配配 的计匹配。

附加条件(°,故r,