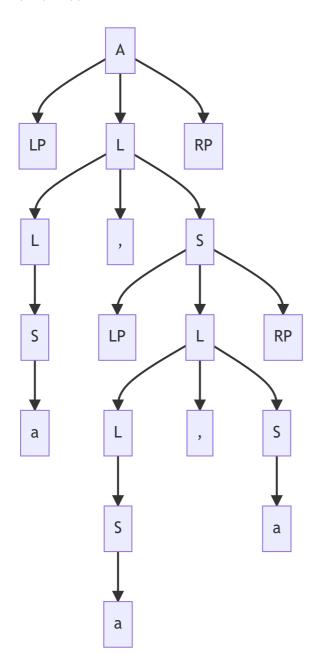
3.1

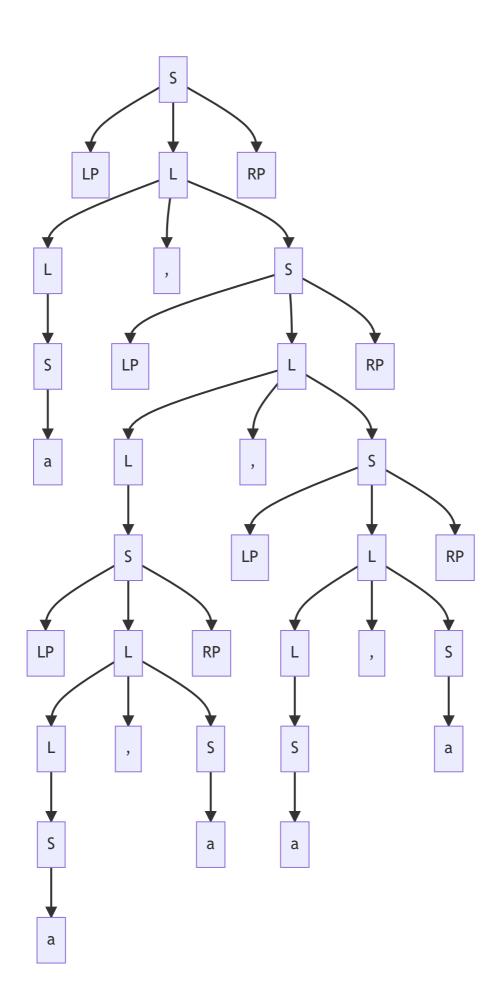
(用LP表示

)用RP表示

(a,(a,a))



(a,((a,a),(a,a))



## 3.2

s-->Im asbs -->Im abs -->Im ababs -->Im abab

s-->lm asbs -->lm abasbs --> lm abasbs --> lm abab

## 3.10

first(D) = {int,real}

first(T) = {int,real}

 $first(L) = \{id\}$ 

 $first(R) = \{ \epsilon, , \}$ 

 $follow(D) = \{\$\}$ 

 $follow(T) = \{id\}$ 

 $follow(L) = \{\$\}$ 

 $follow(R) = \{\$\}$ 

	int	real	id	\$	,
D	D>TL	D>TL			
Т	T>int	T>real			
L			L>idR		
R				R> <i>€</i>	R>,idR

## 3,11

$$first(S) = \{a,b, \epsilon\}$$

$$first(A) = \{a,b\}$$

$$first(B) = \{a.b\}$$

$$follow(S) = \{\$\}$$

$$follow(A) = \{a,b,\$\}$$

 $follow(B) = \{a,b,\$\}$ 

	a	b	\$
S	S>aBS	S>bAS	S> <i>€</i>
Α	A>a	A>bAA	
В	B>aBB	B>b	

3.17

 $I_0$ :

*S*′−> ·*S* 

 $S->\cdot(L)$ 

*S*−>·*a* 

 $I_1$ 

*S*′−> *S*·

 $I_2$ 

 $S->(\cdot L)$ 

 $L->\cdot L, S$ 

L->·S

 $S->\cdot(L)$ 

*S*− > ·*a* 

*I*<sub>3</sub>

*S*− > *a*⋅

 $I_4$ 

 $L->L,\cdot S$ 

 $S->\cdot(L)$ 

*I*<sub>5</sub>

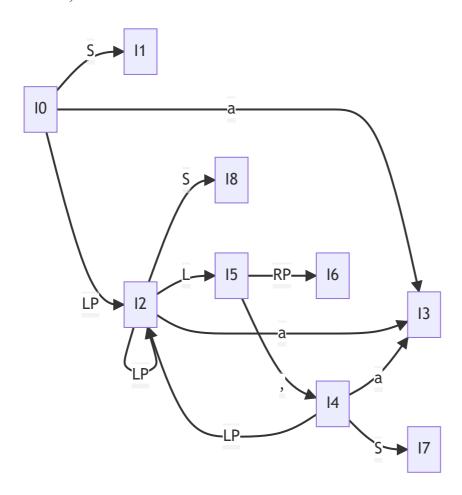
$$S->(L\cdot)$$

$$L->L\cdot,S$$

*I*<sub>6</sub>

**I**<sub>7</sub>

$$L->L,S$$



3.19

 $I_0$ 

$$E' - > \cdot E$$

$$E->\cdot E+T$$

$$E->\cdot T$$

$$T->\cdot TF$$

$$F->\cdot a$$

$$F->\cdot b$$

 $I_1$ 

$$E->E\cdot+T$$

 $I_2$ 

$$E->T\cdot E$$

$$F->\cdot a$$

$$F->\cdot b$$

 $I_3$ 

$$T->F\cdot$$

$$T->F\cdot^*$$

 $I_4$ 

*I*<sub>5</sub>

$$F->b\cdot$$

*I*<sub>6</sub>

$$E->E+\cdot t$$

$$T->\cdot TF$$

$$F->\cdot a$$

$$F->\cdot b$$

 $I_7$ 

$$F->F$$

 $I_8$ 

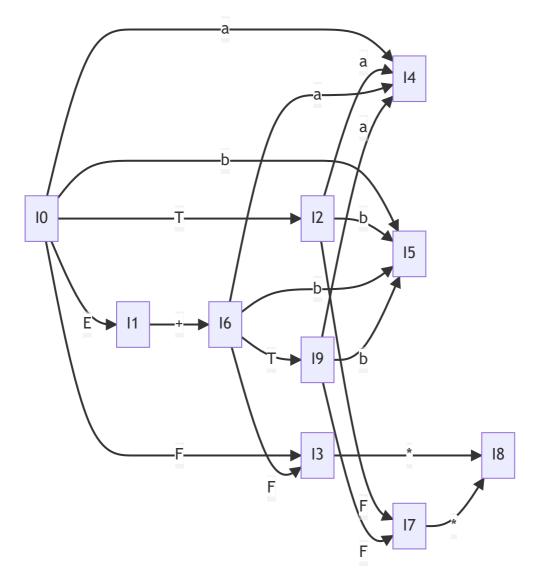
**1**9

$$E->E+T$$

$$T->T\cdot F$$

$$F->\cdot a$$

$$F->\cdot b$$



## SLR分析表:

	action				action	goto		goto
	+	*	а	b	\$	E	Т	F
0			s4	s5		1	2	3
1	s6				acc			
2	r2		s4	s5	s6			7
3	r4	s8	r4	r4	r4			
4	r6	r6	r6	r6	r6			
5	r7	r7	r7	r7	r7			

	action				action	goto		goto
6			s4	s5			9	3
7	r3	s8	r3	r3	r3			
8	r5	r5	r5	r5	r5			
9	r1		s4	s5	r1			7