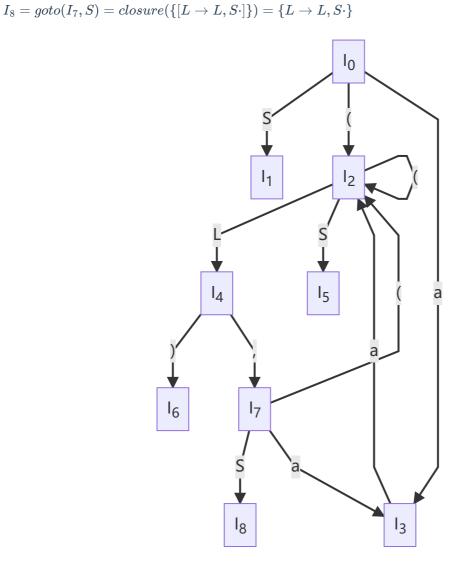
## 给出拓广文法:

$$S^{'} 
ightarrow S - S - S - (L) \mid a \mid L 
ightarrow L, S \mid S$$

## 下面构造项目集:

$$\begin{split} I_0 &= closure(\{[S' \rightarrow \cdot S]\}) = \{S' \rightarrow \cdot S, S \rightarrow \cdot (L), S \rightarrow \cdot a\} \\ I_1 &= goto(I_0, S) = closure(\{[S' \rightarrow S \cdot]\}) = \{S' \rightarrow S \cdot\} \\ I_2 &= goto(I_0, () = closure(\{[S \rightarrow (\cdot L)]\}) = \{S \rightarrow (\cdot L), L \rightarrow \cdot L, S, L \rightarrow \cdot S, S \rightarrow \cdot (L), S \rightarrow \cdot a\} \\ I_3 &= goto(I_0, a) = closure(\{[S \rightarrow a \cdot]\}) = \{S \rightarrow a \cdot\} \\ I_4 &= goto(I_2, L) = closure(\{[S \rightarrow (L \cdot)], [L \rightarrow L \cdot, S]\}) = \{S \rightarrow (L \cdot), L \rightarrow L \cdot, S\} \\ I_5 &= goto(I_2, S) = closure(\{[L \rightarrow S \cdot]\}) = \{L \rightarrow S \cdot\} \\ I_6 &= goto(I_4, )) = closure(\{[S \rightarrow (L \cdot)]\}) = \{S \rightarrow (L \cdot) \cdot\} \\ I_7 &= goto(I_4, ,) = closure(\{[S \rightarrow L, \cdot S]\}) = \{L \rightarrow L, \cdot S, S \rightarrow \cdot (L), S \rightarrow \cdot a\} \end{split}$$



3.19-a

$$(0)E^{'}\to E$$

$$(1)E 
ightarrow E + T$$

$$(5)F o F *$$

$$(6)F \rightarrow a$$

	b	*	a	+	\$	F	Т	Е
0	s5		s4			3	2	1
1				s6	acc			
2	s5		s4	r2	r2	7		
3	r4	s8	r4	r4	r4			
4	r6	r6	r6	r6	r6			
5	r7	r7	r7	r7	r7			
6	s5		s4			3	9	
7	r3	s8	r3	r3	r3			
8	r5	r5	r5	r5	r5			
9	s5		s4	r1	r1	7		

## 3.21-a

$$FIRST(AaAb) \cap FIRST(BbBa) = \{a\} \cap \{b\} = \emptyset$$

$$FOLLOW(A)\cap FOLLW(B)=\{a,b\}\cap \{a,b\}\neq \emptyset$$

所以是LL(1)文法不是SLR(1)文法