解：

1) 消去左递归

a) 排序

T(1)、S(2)

b) 代入

T -> ST'

S -> a|∧|(T)

c) 消去直接左递归

G'(S): S -> a|∧|(T)

T -> ST'

T' -> ,ST'|ε

d) 化简

无需再化简

2) 写出不带回溯的递归子程序

```
P(S)
IF ch = “a” THEN read(ch);
ELSE IF ch = “∧” THEN read(ch);
ELSE IF ch = “(” THEN
BEGIN
    Read(ch);
    P(T);
    IF ch = “)” THEN read(ch);
    ELSE ERROR
END
ELSE ERROR;

P(T)
BEGIN
    P(S);
    P(T');
END;

P(T')
IF ch = “,” THEN
BEGIN
    Read(ch);
    P(S);
    P(T');
END;
ELSE IF ch = “)” THEN
    Return;
ELSE ERROR;
```

3) 是否为 LL(1)

无递归且首符集元素不相交，为 LL(1)

4) 预测分析表

FIRST(a) = {a}

FIRST(Λ) = { Λ }

FIRST((T)) = {(}

FIRST(ST') = FIRST(S) = {a, Λ ,(}

FIRST(,ST') = {,}

FOLLOW(T') = FOLLOW(T) = {) }

	a	Λ	(	)	,	#
S	S->a	S-> Λ	S->(T)			
T	T->ST'	T->ST'	T->ST'			
T'				T'->ε	T'->,ST	