(1)

```
P(S)

IF ch='a' THEN read(ch);

ELSE IF ch='\lambda' THEN read(ch);

ELSE IF ch='('

BEGIN

read(ch);

P(T);

IF ch=')' THEN read(ch);

ELSE ERROR

END

ELSE ERRER;
```

```
P(T)

BEGIN

P(S);

P(T);

END
```

```
P(T')
BEGIN

IF ch=','
BEGIN

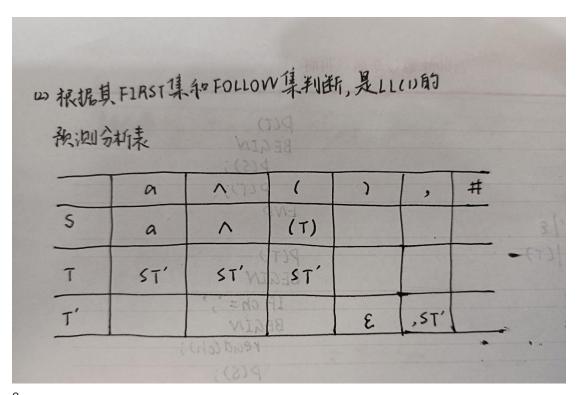
read(ch);

P(S);
P(T');

END
ELSE IF ch=')' THEN return;

ELSE ERROR;
```

(2)



(1)

```
2.
                                         FIRST(E) = FIRST(T)- {E}
(1) FIRST(E) = FIRST(T) - {E}
                                         FIRST (E')= {+, 8}
  FIRST (E')= {+, &}
                                       FIRST (T) = FIRST (F)-1E9
 FIRST (T) = FIRST (F) - FER
                                        FIRST (T') = (FIRST (T) - fe3) Ufe3
 FIRST (T') = (FIRST(T)-{E}) 1/1E}
 FIRST (F) = FIRST(P) - SE3
                                        FIRST (F) = { C, a, b, A}
 FIRST (F') = 1 * , E}
                                        FIRST(F') = {*, 83
 FIRST(p) = {(, a, b, A}
                                        FIRST (P) = {1, a, b, 13
-> FIRST(E) = FIRST(T) - {E}
                                        FIRST (E)= {c, a, b, 1}
                                        FIRST (E') = {+, E}
  FIRST (E')= {+, 89
                                       FIRST (T) = $2884 {C, a, b, A}
                                       FIRST (T) = {c, a, b, 1, 83
 FIRST (T') = {C, a, b, A, E}
                                       FIRST (F) = {c, a, b, 13
 FIRST (F) = {c, a,b, n}
                                       FIRST (F') = {*, 2}
 FIRST (F') = {*, 8}
 FIRST(p) = {(, a, b, n)
                                       FIRST(P) = { (, a, b, 1)
```

```
FOLLOW(E) = {#, ) } U FOLLOW(E')

FOLLOW(E') = FOLLOW(E)

FOLLOW(T') = FOLLOW(T)

FOLLOW(F) = {c,a,b,\} U FOLLOW(T)

FOLLOW(F) = follow(F)

FOLLOW(E) = {#, )}

FOLLOW(E') = {#, )}

FOLLOW(E') = {#, )}

FOLLOW(E') = {+, #, )}

FOLLOW(F) = {c,a,b,\, +, #, )}

FOLLOW(F') = {c,a,b,\, +, #, )}

FOLLOW(F') = {*, c,a,b,\, +, #, )}

FOLLOW(F') = {*, c,a,b,\, +, #, )}

FOLLOW(P) = {*, c,a,b,\, +, #, )}
```

(2)

```
(2) E仅有一个产生产、预及

E: FIRST(E')= {+、 を } FOLLOW(E')= {#, } } FIRST(E') A FOLLOW(E')= 中 満足

T设有- 午产生式、満足

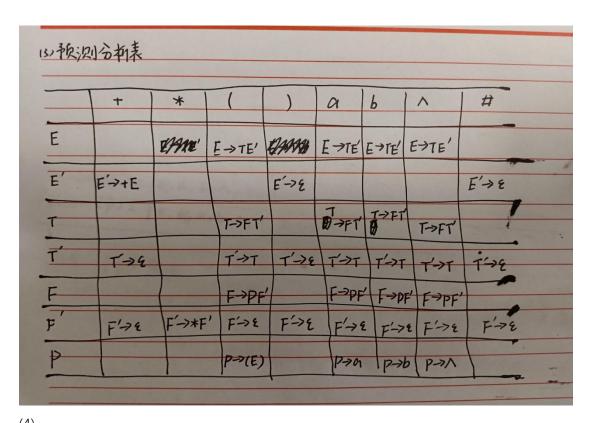
T': FIRST(T')= {c, a, b, ^, ɛ } FOLLOW(ゴ)= {+, #, } } FIRST(T') A FOLLOW(丁)= 中 満足

F(発)- 午产生式、満足

F': FIRST(F')= {*, ɛ } FOLLOW(F')= {例, a, b, ^, +, #, } } FIRST(F') A FOLLOW(F')= 中 満足

P: FIRST((ゴ) FIRST(a) 、FIRST(b) 、FIRST(W) 内内相交为中 、満足

: 是 LL(1) 文法
```



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

```
BEGYMP(E')

IF ch='+' THEN

BEGIN

read ch;

P(E);

END

ELSE IF ch='#' or ch=')' THEN

return;

ELSE ERROR;
```

```
P(T)
BEGIN
P(F);
P(T);
END
```

```
P(T')

IF CH IN {C, a, b, A} THEN

P(RA) P(T);

ELSE IF CH IN {t, #)} THEN

VETURN;

ELSE ERROR;

P(F)

BEGIN

P(P);

P(F');

END
```

```
P(F)
BEGIN
P(P);
P(F');
END
```

```
P(F')

IF ch='*' THEN

BEGIN

read ch;

P(F');

END

ELSE IF ch IN {(,a,b, \lambda, +, \pm, )} THEN

return;

ELSE ERROT;
```

```
P(P)
IF ch = (1' THEN
BEGIN
read ch;
P(E);
IF ch= ')' THEN
read ch;
 ELSE ERROR;
END
ELSE IT ch= 'a' THEN
read ch;
ELSE IF ch= 'b' THEN
read ch;
ELSE IF Ch='N' THEN
  read ch;
ELSE ERROR;
```