412 5 -> (L) | a L 7 L, 5 | S 定义 s.m. Lin 为此私属性,表示该之法符号推出的子答存列的前面有 多水分谷谷; S. out. L. out 为综合属性,表示该文法容号护出的字符序列 的最后一个字符是句子的各人个字符. (需要看完推出的序列) 话法制铅义 5' -> 5 5.in =0 5 -> (L) Lin-Sin+ Sint= Liont+1 Sout = Sin+1 Print (Sout) $\varsigma \rightarrow a$ L -> LIS Lin = Lin Sin = Liout = Siout S.in = L.in L.out = S.out1 -> 5 翻译:案: 5' → 15.in=oil 5 S = { Lin = Sin His (L) { Siont = Liout +1; }. S -> a { Sout = Si in + 1; print(S.out); } L→ {L1. in=Lin; & L1, {Sin=L, out+H; } S { L. out=Siont) L-> 15, in = L. iniy S 1 L. out = S. out ; 4 预测翻译 失将上面的翻译3条消除左路归。 盖: 非益的文法: S→(L) a L> 5L1 L, → , 5 L2 1 E 5' → 15.in=o:4 5 S → {Lin = Sin His (L) { Siont = Liout +1; }. S→ a {Shout = Shint(} print(Shout); j. L > {Siin = Lin; 1 S | Lin = Siout; 1 Li 1 Li out = Li out 1. LI-> (S. in = Li. in Hi), S { Lz.in= S. out: 1 Lz { Li. out = Lz. outil LI > E { L1. out = L1. iniy 那终结符 5'、5、L、L1 的翻译函数6别如下.

4.13-3

```
void S'(){
2
       syntaxTreeNode ★in
3
       *in = 0;
4
       S(in);
5
6
7
    syntaxTreeNode * S(syntaxTreeNode *in){
8
       syntaxTreeNode *out, *in1, *out1; //out表示S.out,in1和out1分别为L的继承属性和综合属性
9
       if(lookahead == 'a'){ //产生式S->a
10
           match('a');
11
           *out = *in + 1;
12
           print(*out);
13
14
       else{ //产生式S->(L)
15
          *in1 = *in + 1;
           match('(');
16
17
           out1 = L(in1);
18
           match(')');
19
           *out = *out1 + 1;
20
       }
21
       return out;
22
23
24
    syntaxTreeNode * L(syntaxTreeNode * i){
25
       syntaxTreeNode *out, *in1, *out1, *in2, *out2; //out表示L.out,in1和out1分别为S的继承属
    性和综合属性,in2和out2分别为L1的继承属性和综合属性
26
       *in1 = *in;
27
       out1 = S(in1);
28
       *in2 = *out1;
29
       out2 = L1(in2);
30
       *out = *out2;
31
       return out;
32
33
34
    syntaxTreeNode * L1(syntaxTreeNode * in){
35
       syntaxTreeNode *out, *in1, *out1, *in2, *out2; //out表示L1.out,in1和out1分别为S的继承
    属性和综合属性,in2和out2分别为产生式右部L1 (记作L2) 的继承属性和综合属性
36
       37
           *in1 = *in + 1;
38
           match(',');
39
           out1 = S(in1);
40
           *in2 = *out1;
41
           out2 = L1(in2);
42
           *out = *out2;
43
       }
44
       else{ //产生式L1->ε
45
           *out = *in;
46
       }
47
       return out;
48 }
```