6.1 a) $0 > \alpha | \Lambda | (7)$ $0 \rightarrow 7.51$ 3.7->7,5/ a/1/(7) (T-) aT' | AT' | (T) T' $\begin{array}{c} |T' \rightarrow , ST'| \\ S \rightarrow \alpha |A| (T)' \end{array}$ PROCEDURE S begin if SYM='a' or'A' then advance else 'if SYM = '1' advance if SYM=')' then advance ele evror else error end

PROCEDURE T

```
if SYM= 'a' or 'a' then
begin
         advance
         T';
     else if SYM= '( 'then
        advan ce
          if SYM=')' then advance
         else error
      else eyyoy
      end
  PROCEDURE T'
begin if SYM = ', ' then advance
     5; 7';
 end
(b)
计算FIRT集和FOLLOW集
   T-) aT'/ NT'/(T)T'
  T'->,5T'/2
  S -> a | 1 (7)
```

FIRST (S) =
$$\{a, \Lambda, \{1\}\}$$

FIRST (T) = $\{a, \Lambda, \{1\}\}$
FIRST (T')= $\{i, i, i, i\}$
FOLLOW (S) = $\{i, i, i, i, i\}$
FOLLOW (T) = $\{i, i, i, i\}$
FOLLOW (T') = $\{i, i, i\}$

二个是LU(1) 夕后

6-2 (b) 5→Ab A→a|B|E B→blE 0:文法不含左递归

②: 舒非终结符的胜式的候选替集两两不被 FIRST(S) = {a,b} FIRST (A) = {a,b} FIRST (B) = 167 $FoLOW(5) = \{\#\}$ FOLLOW (A) = { b } FOLLOW (B) = 16) FIRST (A) Γ FOLLOW (A) = $\int \int \int d^3x \, dx$ FIRST (B) / FOLLOW (B) = {b} = {b} 原文法可转换为 S-) ablbs' 5'-> 618 1251 (S) = Sa, b) FIRST (5')=5b) FOLLOW(S)= S#1 Follow(s') = {#} 此时病足③ ::(6)原文话不是(1(1),转换为

···(b)原文弦不是(L(1),转换为 S → Obl b5' S'→ b12 是(L(1)

(C) S→aSelB, B→bBelC C→cCeld

```
L-) U i E' | (E) E' | i E' | U; | (E) | i
   E' -> OEE' | OE
  此时FIRT和FOLLOW集不相交、放是UU)文层
(d) PROCEDURE 0;
    begin
     if Sym = 't' or 'x'
     then advance
     end;
    PROCEDURE U;
    begin
       if Sym = 't' or ' -
         then ad vance;
          end
  DROCEDURE E;
   begin if Sym='(' then
        begin advance
          if Sym = '7' then
            begin
              advance;
```

```
else envoy
          end
      else if sym='i' then
          beg:n
             advanæ;
               E';
            end
      else begin
           U;
           if sym ='j' then
              advance
             E;
             if Sym='i' then
             advane;
            else emor
          else eyror
          end;
         end;
(e) bool anac) f
      if (S. top () == a 88 a == '#')
          return true;
```

```
5. DOD();
             if (isVNCO) {
                if (MTX.a))
                     S. push (M[X,a])
                        call_eynor();
                 else
6.4.
   (1) FIFST (P) = fint, d, print, E1
      FIDST (B) = (E, int?
       FIRST (D) = Sint]
        FIDST (S) = SE, Ol, print)
        FIRST (S) = sd, prints
         F1PS1(E) = Si, U)
      FOLLOW (P) = S#)
       FOLLOW (B)= Sd. print, #1
       FOLLOW (D) = {d, print, #/
       Follow (3) = 5#1
       FOLLOW(S) = Sil
        FOLLOW (E)=(x,7,;)
Un有的一)BD左連旧以及E-DETILEXO
```

展UU) 文版 B). ガー EI ĎD 仮治 「ĎーĎ' B'→ DĎ' 12

E-> i | a | E+ i | E*d 放为 SE-> iE' (dE' E'-) tie' | *dE' | E 此时 所有 於 就 優 淡 搖 无 本 同 每 化 为 (UI) (4)(5) 转 5 6 3 同 個