

Implementarie une D.T. (diagr. franzisti)

Fier. store - asoc. un segment de cod.

De 3 avre care pleace du starea resp. - citit were caracter is selectate calle

mextchar() -> 1) et tote un caracter din fuff.

- 2) avanseaxà find. pointernt
- 3) into ance canad. oith

pt. a intoance un at lexical » var. globala » lex_value clasa at lexical este intoans de folia principale a an lexical » une Atom ()

```
int store =0, stort =0;
int lex-val;
int fail() ?
   fud-ptn = fig-ptn;
   switch (start) ?
     casio: stant = 9; break;
     case 9: start = 12; break;
    case 12: stort = 20; break;
    case 20: start = 25; huak;
    case 25: recover (); break;
     défautt: /* evr. comp. 20)
   return start;
```

```
Adom www.Adom() 3
  while (1) 3
     switch (stare)?
        case 0: c= mextchar ():
              if (c== Hank | c== tale | c== newline) ?
                   store = 0;
                   beg-ptr ++;
             else if (c== 'c') stare = 1:
                  else if ( c == = ') stare = 5;
                      else if (c== '>') stare = 6;
                           else stare = fail();
                feak;
```

```
/x caxwile 1-8 x/
case 9: c = mextchar():
       if (is letter (c)) stare = lo;
       else stare = fail();
      buala;
case so: c = nextchar();
        if (isletter (e) 1) isdigit(c)) & store = 10;
        else store = 11;
         break;
care 11: metract(1); instal_id();
       return getAt ();
 /x casumile 12-24x/
case 25: c=nextchar():
          if (indigit (c)) storu = 26;
         else stare = fail();
         break;
```

```
case 26: c = nextchar();

if (isoligit(c)) stare = 26;

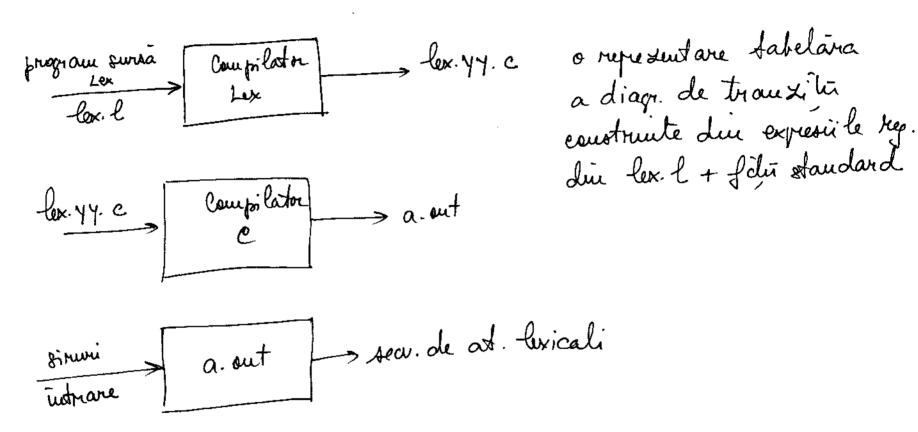
else stare = 27;

break;

case 27: retract(1); instal-nue();

metwee NUM;
```

Limfaj poutru opecificarea au lexicale LEX



Specificare lex.

Un program lex -> 3 parli: declaration

reguli de translataire

fdu auxiliare

Dedaratio - def. variabile, constante, def. regulate Reguli de translatare.

fa 3 active 14 f2 3 active 24

fon 3 actime ny

unde pi -> exp. regulatà actiume i -> fragment de cod care descrie ce actium tretuie sa execute au lexical cand este gasità a potrivire cu pi

Foti auxiliare -> foli apelate in aclimi

An. livical intoance door at lexical. Pt a intoance o valoare atrifut impressure ou info despe lexence => var. globala yy bral.

Specy lex.

1.3 1x def. constante

LT, LE, EQ, NE, GT, GE, IF, THEM, ELE, ID, NUM, OPPEL X/

/x def. regulate */

```
[HIM]
  delin
          3 delin 4+
   2.0
         [A-Za-Z]
  -li+
  cif
         [0-9]
          3 lity (3 lity | 3 aify)*
          3 cif 9+ (\. 3 cif 9+)? (E[+\-]? 3 cif 9+)?
  mu
% %
         3/x micio achieve x/9
3 ws4
         3 return 1F: 9
 if
         3 return THEN; 4
then
         3 ruture ELSE; 5
else
         3 yy lval = instal-id(); return 10; 9
3 id4
         3 yy Eval = instal - mmi (); return NUM; 4
3 mm 9
        3 yy lval = LT; return OPREL; y
ŋ _ 1)
```

" = " 3 yy lval = LE; return OPPEL; 5

intal-id() 3/* felie core pune levena (sir de coract.) al carei prine caracter este indicat de yytext is a carrei lungiure este yy leng, in tah. de sin foluri », indoarce intr. din takela */9

instal-num () 3/4 similar pt. a adanga o const. numerica in T-S.*/1.

- -> Tot avace este intre 1/3 h 1/4 vole copial direct un lev. 44. c h, mu este tratat ca parte a def. regulate dui regulile de translat.
- ac. hom folis proc. def. in a 3 a séchime
- > 1. => pot, aet fel rupux. clasa tuturur conacterelor except new line
- -> \- => -, altfel sembol de interval [A-Z]

yy levet -> def. in lev. yy. c yy text -> pointer catre primil caracter din levenia (teg.ptr) yy leng -> luginea leveniei (am folosid fud-ptr).

Limhaje Indépendente de Context

Granalia Indep de Contest

2. regulate < acreptori -> A.F.
generatori -> E.R.

a(a*Uf*) L

Dc. 3 -> nou sin fol interpretat ca sir in line faj M -> sin fol every. (a*vf*)

5 -> aMh = rejula

 $M \rightarrow A$

MAB

A -> aA le

B-+B/e

Poinese cu 5, gasese un simbol care un simb generat de 5, care apare la stg. untre-una dentre reguli. Inloc simb on simb care apare un dr. regulii, ete

5 - anh - aAh - aaAh - aaah - aaah Def. autorioarà -> gramatica (G) ? G. Mdep. de Context A > a A =) A se poale in bour prin simul a A indiferent de contextul lui A. 0 gramatica indep. de context, €, este un tuple (V, Z, R, S), mole: V -> afaliet Z = V -> multimea seint. Hor mineale R = (V-Z) × V* -> multimea regulilor Buhmelime finita 9 = V-Z -> sintolul de stout V-Z -> mult. sinh. neterminale (neterminali)