programa := **program id** ; bloco

bloco := variaveis corpo.

variaveis := **var** lst\_de\_ides : tipo ; variáveis | vazio

corpo := **begin** cmd cp **end**

cp := ; cmd cp | vazio

tipo := **integer | real | char | boolean**

pmts\_formais := ( pmt\_formal pf)

pf := ; pmt\_formal pf | vazio

cmd := atribuicao | composto | condicional | repetitivo | vazio | write | read

write := **writeln** pmts\_formais;

read := **readln** pmts\_formais;

atribuicao := **id** := expr

composto := **begin** cmd csr **end**

csr := ; cmd csr | vazio

condicional := **if** expr **then** cmd el

el := **else** cmd | vazio

repetitivo := **while** expr **do** cmd

vazio :=

expr := expr\_smp relop | **true | false | (**expr\_smp relop**)**

relop := op\_rela expr\_smp | vazio

op\_rela := **= | <> | < | <= | >= | >**

expr\_smp := **+** termo plus | **-** termo plus | (termo plus)

|termo plus

plus := op\_add termo plus| vazio

op\_add := **+ | - | or**

termo := fator ter |

ter := op\_mul fator ter | vazio

op\_mul := **\* | div | and**

fator := **id** | **num** | exp | (expr) | not fator

exp := op\_mul fator exp | vazio

lst\_de\_ides := literal idnt | expr idnt

idnt := , lst\_de\_ides | vazio