

$\text{MAIN} \rightarrow \text{STMT} \mid \text{FLIST} \mid \epsilon$   
 $\text{FLIST} \rightarrow \text{FDEF FLIST} \mid \text{FDEF}$   
 $\text{FDEF} \rightarrow \text{def id}(\text{PARLIST})\{\text{STMTLIST}\}$   
 $\text{PARLIST} \rightarrow \text{int id}, \text{PARLIST} \mid \text{int id} \mid \epsilon$   
 $\text{VARLIST} \rightarrow \text{id}, \text{VARLIST} \mid \text{id}$   
 $\text{STMT} \rightarrow \text{int VARLIST};$   
 $\quad \mid \text{ATRIBST};$   
 $\quad \mid \text{PRINTST};$   
 $\quad \mid \text{RETURNST};$   
 $\quad \mid \text{IFSTMT}$   
 $\quad \mid \{\text{STMTLIST}\}$   
 $\quad \mid ;$   
 $\text{ATRIBST} \rightarrow \text{id} := \text{EXPR} \mid \text{id} := \text{FCALL}$   
 $\text{FCALL} \rightarrow \text{id}(\text{PARLISTCALL})$   
 $\text{PARLISTCALL} \rightarrow \text{id}, \text{PARLISTCALL} \mid \text{id} \mid \epsilon$   
 $\text{PRINTST} \rightarrow \text{print EXPR}$   
 $\text{RETURNST} \rightarrow \text{return id} \mid \text{return}$   
 $\text{IFSTMT} \rightarrow \text{if}(\text{EXPR}) \text{ STMT} \text{ else STMT}$   
 $\quad \mid \text{if}(\text{EXPR}) \text{ STMT}$   
 $\text{STMTLIST} \rightarrow \text{STMT STMTLIST} \mid \text{STMT}$   
 $\text{EXPR} \rightarrow \text{NUMEXPR} < \text{NUMEXPR}$   
 $\quad \mid \text{NUMEXPR} <= \text{NUMEXPR}$   
 $\quad \mid \text{NUMEXPR} > \text{NUMEXPR}$   
 $\quad \mid \text{NUMEXPR} >= \text{NUMEXPR}$   
 $\quad \mid \text{NUMEXPR} == \text{NUMEXPR}$   
 $\quad \mid \text{NUMEXPR} <> \text{NUMEXPR}$   
 $\quad \mid \text{NUMEXPR}$   
 $\text{NUMEXPR} \rightarrow \text{NUMEXPR} + \text{TERM}$   
 $\quad \mid \text{NUMEXPR} - \text{TERM}$   
 $\quad \mid \text{TERM}$   
 $\text{TERM} \rightarrow \text{TERM} * \text{FACTOR}$   
 $\quad \mid \text{TERM} / \text{FACTOR}$   
 $\quad \mid \text{FACTOR}$   
 $\text{FACTOR} \rightarrow \text{num} \mid (\text{NUMEXPR}) \mid \text{id}$

Total de não terminais = 17 :

MAIN STMT FLIST FDEF PARLIST (5)  
STMTLIST VARLIST ATRIBST PRINTST RETURNST (5)  
IFSTMT EXPR FCALL PARLISTCALL (4)  
NUMEXPR TERM FACTOR (3)

-----

Total de terminais = 25:

id

num (2)

< > <= >= <> = (6)

int if else def print return (6)

+ - \* / := ( ) { } , ; (11)

-----

id( → (depois de depurar)