

s -> **DT MAIN OB CB BEGIN** stmt **END**  
stmt -> decl stmt | loop stmt | expr **SC** | ?

decl -> **DT** vars **SC**  
vars -> **ID** vars'  
vars' -> **ASSI** term | **CM** vars | ?

loop -> **FOR OB** init **SC** comp **SC** expr **CB BEGIN** stmt **END**  
init -> **ID ASSI** simpleExp  
comp -> term **RELOP** term

expr -> **ID** expr' | unop **ID**  
expr' -> **ASSI** simpleExp | unop

simpleExp -> term simpleExp'  
simpleExp' -> arithop term simpleExp' | ?  
arithop -> **PLUS** | **MINUS** | **PROD** | **DIV** | **MOD**  
unop -> **INCR** | **DECR**  
term -> **ID** | **NUM**

**DT** (int | float)  
**MAIN** (main)  
**OB** ( ( )  
**CB** ( ) )  
**BEGIN** ( begin )  
**END** ( end )  
**SC** ( ; )  
**CM** ( , )  
**ID** ( [a-zA-Z][a-zA-Z0-9\_]\* )  
**ASSI** ( = )  
**FOR** ( for )  
**NUM** ( [0-9]+ )  
**RELOP** ( < | > | <= | >= | != | == )  
**INCR** ( ++ )  
**DECR** ( -- )

