Γραμματική της Starlet

```
cprogram>
                       ::= program id <block> endprogram
<block>
                       ::= <declarations> <subprograms> <statements>
<declarations>
                       ::= (declare <varlist>;)*
<varlist>
                       ::= \varepsilon \mid id (, id)^*
<subprograms>
                       ::= (<subprogram>)*
<subprogram>
                       ::= function id <funcbody> endfunction
<funcbody>
                       ::= <formalpars> <block>
<formalpars>
                       ::= ( <formalparlist> )
<formalparlist>
                       ::= <formalparitem> ( , <formalparitem> )* | \epsilon
                       ::= in id | inout id | inandout id
<formalparitem>
                       ::= <statement> ( ; <statement> )*
<statements>
<statement>
                       ::= ε |
                               <assignment-stat> |
                               <if-stat> |
                               <while-stat> |
                               <do-while-stat> |
                               <loop-stat> |
                               <exit-stat> |
                               <forcase-stat> |
                               <incase-stat> |
                               <return-stat> |
                               <input-stat> |
                               <print-stat>
                      ::= id := <expression>
<assignment-stat>
<if-stat>
                       ::= if (<condition>) then <statements> <elsepart> endif
<elsepart>
                       ::= \epsilon | else <statements>
<while-stat>
                       ::= while (<condition>) <statements> endwhile
                       ::= dowhile <statements> enddowhile (<condition>)
<do-while-stat>
<loop-stat>
                       ::= loop <statements> endloop
<exit-stat>
                       ::= exit
```

```
<forcase-stat>
                      ::= forcase
                              ( when (<condition>) : <statements> )*
                              default: <statements> enddefault
                          endforcase
<incase-stat>
                      ::= incase
                              ( when (<condition>) : <statements> )*
                           endincase
                      ::= return <expression>
<return-stat>
<print-stat>
                      ::= print <expression>
<input-stat>
                      ::= input id
                      ::= ( <actualparlist> )
<actualpars>
                      ::= <actualparitem> ( , <actualparitem> )* | ε
<actualparlist>
<actualparitem>
                      ::= in <expression> | inout id | inandout id
<condition>
                      ::= <boolterm> (or <boolterm>)*
<boolterm>
                      ::= <boolfactor> (and <boolfactor>)*
<boolfactor>
                      ::=not [<condition>] | [<condition>] |
                              <expression> <relational-oper> <expression>
<expression>
                      ::= <optional-sign> <term> ( <add-oper> <term>)*
<term>
                      ::= <factor> (<mul-oper> <factor>)*
<factor>
                      ::= constant | (<expression>) | id <idtail>
<idtail>
                      ::= ε | <actualpars>
<relational-oper>
                      ::= = | <= | >= | > | < | <>
<add-oper>
                       ::= + | -
<mul-oper>
                      ::= * | /
                      ::= \epsilon | <add-oper>
<optional-sign>
```