

Γραμματική της *minimal++*

<program>	::=	program id { <block> }
<block>	::=	<declarations> <subprograms> <statements>
<declarations>	::=	(declare <varlist>;)*
<varlist>	::=	ε id (, id)*
<subprograms>	::=	(<subprogram>)*
<subprogram>	::=	function id <funcbody> procedure id <funcbody>
<funcbody>	::=	<formalpars> { <block> }
<formalpars>	::=	(<formalparlist>)
<formalparlist>	::=	<formalparitem> (, <formalparitem>)* ε
<formalparitem>	::=	in id inout id
<statements>	::=	<statement> { <statement> (; <statement>)* }
<statement>	::=	<assignment-stat> <if-stat> <while-stat> <doublewhile-stat> <loop-stat> <exit-stat> <forcase-stat> <incase-stat> <call-stat> <return-stat> <input-stat> <print-stat>
<assignment-stat>	::=	id := <expression>
<if-stat>	::=	if (<condition>) then <statements> <elsepart>
<elsepart>	::=	ε else <statements>
<while-stat>	::=	while (<condition>) <statements>
<doublewhile-stat>	::=	doublewhile (<condition>) <statements> else <statements>
<loop-stat>	::=	loop <statements>
<exit-stat>	::=	exit

<forcase-stat>	::=	forcase (when (<condition>) : <statements>)* default: <statements>
<incase-stat>	::=	incase (when (<condition>) : <statements>)*
<return-stat>	::=	return <expression>
<call-stat>	::=	call id <actualpars>
<print-stat>	::=	print (<expression>)
<input-stat>	::=	input (id)
<actualpars>	::=	(<actualparlist>)
<actualparlist>	::=	<actualparitem> (, <actualparitem>)* ε
<actualparitem>	::=	in <expression> inout 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>	::=	* /
<optional-sign>	::=	ε <add-oper>