1.	*program*	$\rightarrow$	**program id** (*identifier_list*) ; *declarations* *subprogram_declarations* *compound_statement* .
2.1.	*identifier_list*	$\rightarrow$	**id**
2.2.	*identifier_list*	$\rightarrow$	*identifier_list* , **id**
3.1.	*declarations*	$\rightarrow$	*declarations* **var** *identifier_list* : *type* ;
3.2.	*declarations*	$\rightarrow$	ϵ
4.1.	*type*	$\rightarrow$	*standard_type*
4.2.	*type*	$\rightarrow$	**array [num .. num] of** *standard_type*
5.1.	*standard_type*	$\rightarrow$	**integer**
5.2.	*standard_type*	$\rightarrow$	**real**
6.1.	*subprogram_declarations*	$\rightarrow$	*subprogram_declarations subprogram_declaration* ;
6.2.	*subprogram_declarations*	$\rightarrow$	ϵ
7.	*subprogram_declaration*	$\rightarrow$	*subprogram_head declarations compound_statement*
8.1.	*subprogram_head*	$\rightarrow$	**function id** *arguments* : *standard_type* ;
8.2.	*subprogram_head*	$\rightarrow$	**procedure id** *arguments* ;
9.1.	*arguments*	$\rightarrow$	(*parameter_list*)
9.2.	*arguments*	$\rightarrow$	ϵ
10.1.	*parameter_list*	$\rightarrow$	*identifier_list* : *type*
10.2.	*parameter_list*	$\rightarrow$	*parameter_list* ; *identifier_list* : *type*
11.	*compound_statement*	$\rightarrow$	**begin** *optional_statements* **end**
12.1.	*optional_statements*	$\rightarrow$	*statement_list*
12.2.	*optional_statements*	$\rightarrow$	ϵ
13.1.	*statement_list*	$\rightarrow$	*statement*
13.2.	*statement_list*	$\rightarrow$	*statement_list* ; *statement*
14.1.	*statement*	$\rightarrow$	*variable* **assignop** *expression*
14.2.	*statement*	$\rightarrow$	*procedure_statement*
14.3.	*statement*	$\rightarrow$	*compound_statement*
14.4.	*statement*	$\rightarrow$	**if** *expression* **then** *statement* **else** *statement*
14.5.	*statement*	$\rightarrow$	**while** *expression* **do** *statement*
15.1.	*variable*	$\rightarrow$	**id**
15.2.	*variable*	$\rightarrow$	**id** [*expression*]
16.1.	*procedure_statement*	$\rightarrow$	**id**
16.2.	*procedure_statement*	$\rightarrow$	**id** (*expression_list*)
17.1.	*expression_list*	$\rightarrow$	*expression*
17.2.	*expression_list*	$\rightarrow$	*expression_list* , *expression*
18.1.	*expression*	$\rightarrow$	*simple_expression*
18.2.	*expression*	$\rightarrow$	*simple_expression* **relop** *simple_expression*
19.1.	*simple_expression*	$\rightarrow$	*term*
19.2.	*simple_expression*	$\rightarrow$	*sign term*
19.3.	*simple_expression*	$\rightarrow$	*simple_expression* **addop** *term*
20.1.	*term*	$\rightarrow$	*factor*
20.2.	*term*	$\rightarrow$	*term* **mulop** *factor*
21.1.	*factor*	$\rightarrow$	**id**
21.2.	*factor*	$\rightarrow$	**id** (*expression_list*)
21.3.	*factor*	$\rightarrow$	**num**
21.4.	*factor*	$\rightarrow$	(*expression*)
21.5.	*factor*	$\rightarrow$	**not** *factor*
22.1.	*sign*	$\rightarrow$	$+$
22.2.	*sign*	$\rightarrow$	$-$