**Bold: terminals**

*Non-bold: non-terminals*

1. *program* --> **program id (**idlst)**;** *declarations subdeclarations cmpdstmnt* .

2.1 *idlst* --> **id**

2.2 *idlst* --> *idlst***, id**

3.1 *declarations* --> *declarations* **var** *idlst*: *type* **;**

3.2 declarations --> **ϵ**

4.1 *type* --> *standard\_type*

4.2 *type* --> **array** [**num** **..** **num**] **of** *standard\_type*

5.1 *standard*\_*type* --> **integer**

5.2 *standard\_type*  --> **real**

6.1 *subdeclarations* --> *subdeclarations subdeclaration* ;

6.2 *subdeclarations* --> **ϵ**

7 *subdeclaration* --> subprog\_head *declarations* *cmpdstmnt*

8.1 *subprogram\_head* --> **function id** *arguments* : *standard\_type* **;**

8.2 *subprogram\_head* --> **procedure** **id** *arguments* **;**

9.1 *arguments* --> (*parameter\_list* )

9.2 *arguments* --> **ϵ**

10.1 *parameter\_list* --> *identifier\_list* : *type*

10.2 *parameter\_list*  --> *parameter\_list* ; *identifier\_list* : *type*

11 *compound statement* --> **begin** *optional\_statements* **end**

12.1 *optional\_statements* --> *statement\_list*

12.1 *optional\_statements* --> *statement\_list ; statement*

13.1 *statement* --> *variable* **assignop** *expression*

13.2 statement --> *procedure\_statement*

13.3 *statement* --> *compound\_statement*

13.4 *statement* --> **if** *expression* **then** *statement* **else** *statement*

13.5 *statement* --> **while** *expression* **do** *statement*

14.1 *variable* --> **id**

14.2 *variable* --> **id** [*expression*]

15.1 *procedure\_statement* --> **id**

15.2 *procedure\_statement* --> **id** (*expression\_list* )

16.1 *expression\_list*  --> *expression*

16.2 *expression\_list* --> *expression\_list*, *expression*

17.1 *expression* --> *simple\_expression*

17.2 *expression* --> *simple\_expression* **relop** *simple\_expression*

18.1 *simple\_expression* --> *term*

18.2 *simple\_expression* --> *sign term*

18.1 *simple\_expression* --> *simple\_expression* **addop** *term*

19.1 *term* --> *factor*

19.2 *term* --> *term* **mulop** *factor*

20.1 *factor* --> **id**

20.2 *factor* --> **id** ( *expression\_list* )

20.3 *factor* --> **num**

20.4 *factor* --> ( *expression* )

20.5 *factor* --> **not** *factor*

21.1 *sign* --> +

21.2 *sign* --> -