**Bold: terminals**

*Non-bold: non-terminals*

1.1 *program* --> **program id (**idlst**);**

*program’*

1.2.1 *program’* --> *subdeclarations*

*compound\_statement*

**.**

1.2.2 *program’* --> *compound\_statement*

**.**

1.2.3 *program’* --> *declarations*

*program’’*

1.3.1 *program’’ --> subdeclarations*

*compound\_statement*

**.**

1.3.2 *program’’ --> compound\_statement*

**.**

2.1 *idlst* --> **id** *idlst’*

2.2.1 *idlst’* --> **, id** *idlst’*

2.2.2 idlst’ --> ϵ

3.1 *declarations* --> **var** **id:** *type* **;** *declarations’*

3.2.1 *declarations’* --> **var** **id:** *type* **;** *declarations’*

3.2.2 *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* --> *subdeclaration* **;** *subdeclarations’*

6.2.1 *subdeclarations’* --> *subdeclaration* **;** *subdeclarations’*

6.2.2 *subdeclarations’* --> ϵ

7.1 *subdeclaration* --> *subprogram\_head*

*subdeclaration’*

7.2.1 *subdeclaration’* --> *subdeclarations*

*compound\_statement*

7.2.2 *subdeclaration’* --> *compound\_statement*

7.2.3 *subdeclaration’* --> *declarations*

*subdeclaration’’*

7.3.1 *subdeclaration’’ --> subdeclarations*

*compound\_statement*

7.3.2 *subdeclaration’’ --> compound\_statement*

8.1 *subprogram\_head* --> **procedure** **id** *subprogram\_head’*

8.2.1 *subprogram\_head’* --> **;**

8.2.2 *subprogram\_head’* --> *arguments* **;**

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

10.1 *parameter\_list* --> **id** **:** *type parameter\_list’*

10.2.1 *parameter\_list’*  --> **;** ***id*** **:** *type parameter\_list’*

10.2.2 *parameter\_list’*  --> ϵ

11.1 *compound\_statement* --> **begin** *compound\_statement’*

11.2.1 *compound\_statement’* --> *optional\_statements*

**end**

11.2.2 *compound\_statement’* --> **end**

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

13.1 *statement\_list --> statement statement\_list’*

13.2.1 *statement\_list’ -->* **;** *statement statement\_list’*

13.2.2 *statement\_list’ -->* ϵ

14.1 *statement* --> *variable* **assignop** *expression*

14.2 *statement* --> *procedure\_statement*

14.3 *statement* --> *compound\_statement*

14.4 *statement* --> **while** *expression* **do** *statement*

14.5 *statement* --> **if** *expression* **then** *statement* *statement’*

14.6.1 *statement’* --> **else** *statement*

14.6.2 *statement’* --> ϵ

15.1 *variable* --> **id** *variable’*

15.2.1 *variable’* --> **[***expression***]**

15.2.2 *variable’* --> ϵ

16.1 *procedure\_statement* --> **call** **id** *procedure\_statement’*

16.2.1 *procedure\_statement’* --> **(***expression\_list***)**

16.2.2 *procedure\_statement’* --> ϵ

17.1 *expression\_list*  --> *expression expression\_list’*

17.2.1 *expression\_list* ‘ --> **,** *expression expression\_list’*

17.2.2 *expression\_list* ‘ --> ϵ

18.1 *expression* --> *simple\_expression expression’*

18.2.1 *expression’* --> **relop** *simple\_expression*

18.2.2 *expression’* --> ϵ

19.1 *simple\_expression* --> *term simple\_expression’*

19.2 *simple\_expression* --> *sign term simple\_expression’*

19.3.1 *simple\_expression’* --> **addop** *term simple\_expression’*

19.3.2 *simple\_expression’* --> ϵ

20.1 *term* --> *factor term’*

20.2.1 *term’* --> **mulop** *factor term’*

20.2.2 *term’* --> ϵ

21.1 *factor* --> **id** *factor’*

21.2 *factor* --> **num**

21.3 *factor* --> **(** *expression* **)**

21.4 *factor* --> **not** *factor*

21.5.1 *factor’* --> ***[****expression****]***

21.5.2 *factor’* --> ϵ

22.1 *sign* --> **+**

22.2 *sign* --> **-**