1.         <PROGRAM> ::= **program** <IDENTIFIER> ( <FORMALS> ) **;**  
                            <DEFINITIONS>  
                            <BODY> **. MAKEPROGRAM**  
  
2.      <DEFINITIONS> ::= **ε MAKEDEFS**  
3.                      | <DEF> <DEFINITIONS>  
  
4.              <DEF> ::= **function** <IDENTIFIER> **(** <FORMALS> **) :** <TYPE>  
                            <BODY> **; MAKEDEF**  
  
5.          <FORMALS> ::= **ε MAKEFORMALS**  
6.                      | <NONEMPTYFORMALS>  
  
7.  <NONEMPTYFORMALS> ::= <FORMAL> <NONEMPTYFORMALS’>

8. <NONEMPTYFORMALS’> ::= **ε MAKEFORMALS**

9.| , <NONEMPTYFORMALS>  
  
10.           <FORMAL> ::= <IDENTIFIER> **:** <TYPE> **MAKEFORMAL**  
  
11.             <BODY> ::= **begin** <STATEMENT-LIST> **end MAKEBODY**  
  
12.   <STATEMENT-LIST> ::= <PRINT-STATEMENT> <STATEMENT-LIST>  
13.                      | **return** <EXPR> **MAKERETURN MAKESTATEMENTS (?)**  
  
14.            <TYPE> ::= **integer MAKETYPE**  
15.                     | **boolean MAKETYPE**

16.            <EXPR> ::= <SIMPLE-EXPR> <EXPR’>

18.           <EXPR’> ::= **<** **MAKEOP.** <SIMPLE-EXPR> **MAKEBINEXP** <EXPR’>

19.                     | **=** **MAKEOP.** <SIMPLE-EXPR> **MAKEBINEXP** <EXPR’>

17.                     | **ε**

20.     <SIMPLE-EXPR> ::= <TERM> <SIMPLE-EXPR’>

22.    <SIMPLE-EXPR’> ::= **or MAKEOP.** <TERM> **MAKEBINEXP** <SIMPLE-EXPR’>

23.                     | **+ MAKEOP.** <TERM> **MAKEBINEXP** <SIMPLE-EXPR’>

24.                     | **-** **MAKEOP.** <TERM> **MAKEBINEXP** <SIMPLE-EXPR’>

21.                     | **ε**

25.            <TERM> ::= <FACTOR> <TERM’>

27.           <TERM’> ::= **and** **MAKEOPERATOR** <FACTOR> **MAKEBINEXP** <TERM’>

28.                     | **\*** **MAKEOPERATOR** <FACTOR> **MAKEBINEXP** <TERM’>

29.                     | **/** **MAKEOPERATOR** <FACTOR> **MAKEBINEXP** <TERM’>

26.                     | **ε**   
  
30.          <FACTOR> ::= **if** <EXPR> **then** <EXPR> **else** <EXPR> **MAKEIF**  
31.                     | **not** <FACTOR> **MAKENOT**  
32.                     | <IDENTIFIER> **MAKEIDENTIFIER** <FACTOR’>  
33.                     | <LITERAL>  
34.                     | **-** <FACTOR> **MAKENEGATE**  
35.                     | **(** <EXPR> **) MAKEBLOCK**

36.         <FACTOR’> ::= **ε**  
37.                     | **MAKESTOP (** <ACTUALS> **) MAKEFNCALL**  
  
38.         <ACTUALS> ::= **ε MAKEEXPRS**  
39.                     | <NONEMPTYACTUALS>  
  
40. <NONEMPTYACTUALS> ::= <EXPR> <NONEMPTYACTUALS’>

41.<NONEMPTYACTUALS’> ::= **ε MAKEEXPRS**

42.                     | **,** <NONEMPTYACTUALS>  
  
43.         <LITERAL> ::= <NUMBER> **MAKENUMBER**  
44.                     | <BOOLEAN> **MAKEBOOLEAN**  
  
45. <PRINT-STATEMENT> ::= **print (** <EXPR> **)** **; MAKEPRINT**