<PROGRAM> ::= **program** <IDENTIFIER> ( <FORMALS> ) **;**  
 <DEFINITIONS>  
 <BODY> **.**  
  
 <DEFINITIONS> ::= **ε**  
 | <DEF> <DEFINITIONS>  
  
 <DEF> ::= **function** <IDENTIFIER> **(** <FORMALS> **) :** <TYPE>  
 <BODY> **;**  
  
 <FORMALS> ::= **ε**  
 | <NONEMPTYFORMALS>  
  
 <NONEMPTYFORMALS> ::= <FORMAL>  
 | <FORMAL> **,** <NONEMPTYFORMALS>  
  
 <FORMAL> ::= <IDENTIFIER> **:** <TYPE>  
  
 <BODY> ::= **begin** <STATEMENT-LIST> **end**  
  
 <STATEMENT-LIST> ::= <PRINT-STATEMENT> <STATEMENT-LIST>  
 | **return** <EXPR>  
  
 <TYPE> ::= **integer**  
 | **boolean**  
  
 <EXPR> ::= <EXPR> **<** <SIMPLE-EXPR>  
 | <EXPR> **=** <SIMPLE-EXPR>  
 | <SIMPLE-EXPR>  
  
 <SIMPLE-EXPR> ::= <SIMPLE-EXPR> **or** <TERM>  
 | <SIMPLE-EXPR> **+** <TERM>  
 | <SIMPLE-EXPR> **-** <TERM>  
 | <TERM>  
  
 <TERM> ::= <TERM> **and** <FACTOR>  
 | <TERM> **\*** <FACTOR>  
 | <TERM> **/** <FACTOR>  
 | <FACTOR>  
  
 <FACTOR> ::= **if** <EXPR> **then** <EXPR> **else** <EXPR>  
 | **not** <FACTOR>  
 | <IDENTIFIER> **(** <ACTUALS> **)**  
 | <IDENTIFIER>  
 | <LITERAL>  
 | **-** <FACTOR>  
 | **(** <EXPR> **)**  
  
 <ACTUALS> ::= **ε**  
 | <NONEMPTYACTUALS>  
  
 <NONEMPTYACTUALS> ::= <EXPR>  
 | <EXPR> **,** <NONEMPTYACTUALS>  
  
 <LITERAL> ::= <NUMBER>  
 | <BOOLEAN>  
  
 <PRINT-STATEMENT> ::= **print (** <EXPR> **)** **;**