```
<PROGRAM> ::= <DEFINITIONS>
     <DEFINITIONS> ::= ε
                   | <DEF> <DEFINITIONS>
            <DEF> ::= function <IDENTIFIER> ( <FORMALS> ) : <TYPE>
         <FORMALS> ::= ε
                   | <NONEMPTYFORMALS>
 <NONEMPTYFORMALS> ::= <FORMAL>
                   | <FORMAL> , <NONEMPTYFORMALS>
         <FORMAL> ::= <IDENTIFIER> : <TYPE>
            <BODY> ::= <PRINT-STATEMENT> <BODY>
                   | <EXPR>
            <TYPE> ::= integer
                   boolean
            <EXPR> ::= <SIMPLE-EXPR> <EXPR-TAIL>
       <EXPR-TAIL> ::= < <SIMPLE-EXPR>
                   | = <SIMPLE-EXPR>
                    ε
     <SIMPLE-EXPR> ::= <TERM> <SIMPLE-EXPR-TAIL>
<SIMPLE-EXPR-TAIL> ::= or <TERM>
                   | + <TERM>
                    | - <TERM>
           <TERM> ::= <FACTOR> <TERM-TAIL>
       <TERM-TAIL> ::= and <FACTOR>
                    | * <FACTOR>
                    | / <FACTOR>
                    | ε
         <FACTOR> ::= if <EXPR> then <EXPR> else <EXPR>
                    | not <FACTOR>
                    | <IDENTIFIER> ( <ACTUALS> )
                    | <IDENTIFIER>
                    | <LITERAL>
                    - <FACTOR>
                    | ( <EXPR> )
         <actuals> ::= \epsilon
                   | <NONEMPTYACTUALS>
 <NONEMPTYACTUALS> ::= <EXPR>
                   | <EXPR> , <NONEMPTYACTUALS>
        <LITERAL> ::= <NUMBER>
```

```
| <BOOLEAN>
```