Phrase Structure

```
<Program> ::= prog IDENTIFIER <Block> gorp EOF
<Block> ::= (<Declaration>; | <Command>; )*
<Declaration> ::= <Type> IDENTIFIER
<Type> ::= <SimpleType> | <CompoundType>
<SimpleType> ::= int | boolean | string
<CompoundType> ::= map [ <SimpleType>, <Type>]
<Command> ::= <LValue> = <Expression>
              | <LValue> = <PairList>
              print <Expression>
              | println < Expression>
              | do (<Expression>) <Block> od
              do (<LValue>:[IDENTIFIER, IDENTIFIER]) <Block> od
              | if (<Expression> ) <Block> fi
              | if (<Expression>) <Block> else <Block> fi
              3 |
<LValue> ::= IDENTIFIER | IDENTIFIER [ <Expression> ]
<Pair> ::= [ <Expression> , <Expression> ]
<PairList> ::= { <Pair> ( , <Pair> )* } | { }
<Expression> ::= <Term> (<RelOp> <Term>)*
<Term> ::= <Elem> (<WeakOp> <Elem>)*
<Elem> ::= <Factor> ( <StrongOp> <Factor )*
<Factor>::= <LValue>| INTEGER_LITERAL | BOOLEAN_LITERAL | STRING_LITERAL
           (<Expression>) | ! <Factor> | -<Factor> | <PairList>
<RelOp> ::= OR | AND | EQUALS | NOT EQUALS | LESS THAN |
GREATER_THAN | AT_MOST | AT_LEAST
<WeakOp> ::= PLUS | MINUS
<StrongOp> ::= TIMES | DIVIDE
```