```
::= PROGRAM  var <dec-list> BEGIN <stmt-list> END.
  prog>
                ::= id
  corog-name>
  <dec-list>
                 ::= <dec> ( <dec-list> ; <dec>
                ::= <id-list> : <type>
  <dec>
  <type>
                ::= INTEGER
  <id-list>
                <stmt-list>
                ::= <stmt> | <stmt-list> ; <stmt>
  <stmt>
                 ::= <assign> | <read> | <write> | <for>
                ::= id := <exp>
  <assion>
10 <exp>
                ::= <term> | <exp> + <term> | <exp> - <term>
                 ::= <factor> | <term> * <factor> | <term> DIV <factor>
11 <term>
12 <factor>
                 ::= id | int | ( <exp> )
13 <read>
                 ::= READ ( <id-list> )
14 <write>
                ::= WRITE ( <id-1ist> )
15 <for>
                ::= FOR <index-exp> DO <body>
16 <index-exp>
                ::= id := <exp> TO <exp>
17 <body>
                ::= <stmt> | BEGIN <stmt-list> END
```

Figure 5.2 Simplified Pascal grammar.