```
Program 
ightarrow \mathbf{begin}\ Statements\ \mathbf{end}
                           Statements 
ightarrow rac{\epsilon}{Statements \; Statement}
                                               IfThenElseStatement
                                               DoWhileStatement
                            Statement \rightarrow PrintStatement
                                               DeclarationStatement
                                               Assignment Statement
                     IfThenElseStatement 
ightarrow IfThen\ MaybeElse
                     IfThen \rightarrow \mathbf{if} \ Expression \ \mathbf{then} \ \{ \ Statements \ \}
                             MaybeElse 
ightarrow rac{\epsilon}{	ext{else } \{ 	ext{ } Statements \ \} }
        DoWhileStatement \rightarrow \mathbf{do} \{ Statements \} \mathbf{while} ( Expression ) ;
                        PrintStatement \rightarrow \mathbf{print} ( Expression );
             DeclarationStatement 
ightarrow TypeSpecifier\ InitDeclarator;
                                     TypeSpecifier 
ightarrow rac{	ext{int}}{	ext{bool}}
               AssignmentStatement 
ightarrow \emph{Identifier} = Expression;
                    InitDeclarator 
ightarrow egin{aligned} \emph{Identifier} \\ \emph{Identifier} &= \mathit{Expression} \end{aligned}
                            Expression 
ightarrow Equality Expression
   EqualityExpression \rightarrow \begin{matrix} RelationalExpression \\ EqualityExpression == RelationalExpression \end{matrix}
                                      Additive Expression
  Relational Expression 
ightarrow Relational Expression > Additive Expression
                                      Relational Expression >= Additive Expression
  AdditiveExpression \rightarrow \begin{matrix} MultiplicativeExpression \\ AdditiveExpression + MultiplicativeExpression \end{matrix}
                                        Primary Expression \\
Multiplicative Expression 
ightarrow Multiplicative Expression * Primary Expression
```

## Identifier

Number

 $Literal 
ightarrow \mathbf{true}$ 

false