Gee Grammar

```
Program \longrightarrow Statements
    Statements \longrightarrow \{Statement\}
     Statement \longrightarrow Assignment \mid Loop \mid IfStatement \mid ElseStatement \mid Function
       Function \longrightarrow Identifier ( [Expression \{ , Expression \} ] ) Eoln
   Assignment \longrightarrow Identifier = Expression Eoln \mid Identifier = Function
  IfStatement \longrightarrow if Expression : Eoln Indent Statements Undent
ElseStatement \longrightarrow else: Eoln Indent Statements Undent
             Loop \longrightarrow while \ Expression: \ Eoln \ Indent \ Statements \ Undent
    Expression \longrightarrow Conjunction \{ || Conjunction \}
  Conjunction \longrightarrow Equality \{ \&\& Equality \}
        Equality \longrightarrow Relation \ [EquOp\ Relation\ ]
          EquOp \longrightarrow == |!=
        Relation \longrightarrow Addition \ [RelOp \ Addition \ ]
           RelOp \longrightarrow \langle | \langle = | \rangle | \rangle =
        Addition \longrightarrow Term \{ AddOp Term \}
          AddOp \longrightarrow + | -
            Term \longrightarrow Factor \ \{ \ MulOp \ Factor \ \}
          MulOp \longrightarrow * | / | \%
          Factor \longrightarrow [UnaryOp] \ Primary
       UnaryOp \longrightarrow - | !
       Primary \longrightarrow Identifier [ [ Expression ] ] | Literal | ( Expression )
      Identifier \longrightarrow Letter \{ Letter \mid Digit \}
           Letter \longrightarrow a \mid b \mid \dots \mid z \mid A \mid B \mid \dots \mid Z
            Digit \longrightarrow 0 \mid 1 \mid \dots \mid 9
          Literal \longrightarrow IntLiteral \mid StringLiteral \mid FloatLiteral \mid CharLiteral \mid BoolLiteral
      IntLiteral \longrightarrow Digit \{ Digit \}
 StringLiteral \longrightarrow " ASCIIChar \{ ASCIIChar \}"
    BoolLiteral \longrightarrow true \mid false
   FloatLiteral \longrightarrow IntLiteral. IntLiteral
   CharLiteral \longrightarrow \ 'ASCIIChar \ '
```

Only parenthesis, brackets, and braces in **bold** are not ENBF metasymbols. ASCIIChar is a nonterminal that refers to a single choice of any one of the ASCII characters, not listed here for sake of verbosity.