

## Grammar

**S**  $\rightarrow$  {**D**}{**C**}<sup>+</sup>  
**D**  $\rightarrow$  ( INT | BOOLEAN | BYTE | STRING ) ID [ RECEIVE [ MINUS ] CONST ]  
          { COMMA ID [ RECEIVE [ MINUS ] CONST ] } SEMICOLON |  
          FINAL ID RECEIVE [ MINUS ] CONST SEMICOLON  
**C**  $\rightarrow$  ID RECEIVE E SEMICOLON |  
          WHILE OPPAR **E** CLPAR ( BEGIN { **C** } ENDWHILE | **C** ) |  
          IF OPPAR **E** CLPAR ( BEGIN { **C** } ENDIF [ ELSE ( BEGIN { **C** } ENDELSE | **C** ) ] |  
              **C** [ ELSE ( BEGIN { **C** } ENDELSE | **C** ) ] ) |  
          SEMICOLON |  
          READLN OPPAR ID CLPAR SEMICOLON |  
          ( WRITE | WRITELN ) OPPAR **E** { COMMA **E** } CLPAR SEMICOLON  
**E**  $\rightarrow$  **X** [ ( LESSTHAN | MORETHAN | LESSEQUAL | MOREEQUAL | DIFFERENT | EQUALS ) **X** ]  
**X**  $\rightarrow$  [ PLUS | MINUS ] **T** { ( PLUS | MINUS | OR ) **T** }  
**T**  $\rightarrow$  **F** { ( TIMES | DIVIDE | AND ) **F** }  
**F**  $\rightarrow$  OPPAR **E** CLPAR | ID | CONST | NOT **F**