

F tokens

keywords:

```
IS -> is

IF -> if
THEN -> then
ELSE -> else
END -> end

WHILE -> while
FOR -> for
IN -> in
LOOP -> loop
BREAK -> break

FUNC -> func
DO -> do
RETURN -> return

PRINT -> print
```

types:

```
INTEGER -> integer
COMPLEX -> complex
RATIONAL -> rational
REAL -> real
STRING -> string
BOOLEAN -> boolean
```

punctuation:

```
ASSIGN -> :=
ARROW -> =>

DOT -> .
COMMA -> ,
COLON -> :
SEMICOLON -> ;

PLUS -> +
MINUS -> -
STAR -> *
SLASH -> /

LESS -> <
LESSEQUAL -> <=
GREATER -> >
GREATEREQUAL -> >=
EQUAL -> =
NOTEQUAL -> /=

AND -> &
OR -> |
XOR -> ^
```

parenthesis:

```
LROUND -> (  
RROUND -> )  
LSQUARE -> [  
RSQUARE -> ]  
LCURLY -> {  
RCURLY -> }
```

other

```
BOOLEAN_VALUE(value) -> true | false  
INTEGER_VALUE(value) -> [0-9]+  
REAL_VALUE(value) -> [0-9]+.[0-9]+  
RATIONAL_VALUE(num, den) -> [0-9]+\[0-9]+  
COMPLEX_VALUE(real, img) -> [0-9]+.[0-9]+i[0-9]+.[0-9]+  
STRING_VALUE(val) -> "[ !#-~]"  
      ", then everything but ", then again another "  
ID("variable_name") -> [a-zA-Z][a-zA-Z0-9]*
```