Concrete Syntax of Hydra

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Program -> { Statement }
Function -> Identifier : Parameters -> Type ( Block | = Expression [ LocalFs ] )
LocalFs -> where Function { Function }
Parameters -> ( Declaration {, Declaration})
Block -> { { Statement } }
Statement -> ; | Block | Declaration | Assignment | Conditional | Loop | Function
Assignment -> Identifier := Expression ;
Conditional -> if (Expression) Statement I else Statement I
Loop -> while (Expression) Statement
Expression -> Term { BinOp Term }
Op -> + | - | * | / | % | **
Term -> [ UnOp ] Primary
UnOp -> - | !
Primary -> (Expression) | Type (Expression) | Literal | Accessor | Identifier
(Arguments)
Arguments -> [ Expression {, Expression }]
Declaration -> Identifier : Type
Type -> Int | Bool | Float | Char
Identifier -> Letter { Letter | Digit }
Letter -> a | b | ... | z | A | B | ... | Z
Digit -> 0 | 1 | ... | 9
Literal -> Integer | Boolean | Floating | Character
Integer -> Digit { Digit }
Boolean -> True | False
Floating -> Integer . Integer
Character -> ' ASCIIChar '
```