

Solidity Implemented Syntax

SourceUnit	
:	Contract*
Contract	
:	'contract' ID '{' ContractPart* '}'
ContractPart	
:	Type ID ';'
	'function' ID '(' Param* ')' 'public' 'returns' '(' Type ')' '{' Statement* 'return' Exp ';' '}'
	'function' ID '(' Param* ')' 'public' 'returns' '(' Var ')' '{' Statement* '}'
	'function' ID '(' Param* ')' 'public' '{' Statement* '}'
Statement	
:	'if' '(' Exp ')' Statement 'else' Statement
	'while' '(' Exp ')' Statement
	'{' Statement* '}'
	'print' '(' Exp ')' ';'
	Type ID '=' Exp ';'
	ID '=' Exp ';'
	Var '.' ID '=' Exp ';'
Exp	
:	Exp '(' '+' '-' '*') Exp
	Exp '<' Exp
	Exp '&&' Exp
	Exp '.' ID '(' Param ')'
	'this'
	'new' ID '(' ')'
	'!' Exp
	'(' Exp ')'
	primaryExpression
Param	
:	Type ID
Type	
:	'int'
	'bool'
	ID
primaryExpression	
:	ID [a-zA-Z_] [a-zA-Z0-9_]*
:	INT [0-9]+
:	'True' 'False'

Reserved Keywords

: 'abstract'
| 'after'
| 'bool'
| 'case'
| 'catch'
| 'contract'
| 'default'
| 'false'
| 'final'
| 'function'
| 'in'
| 'inline'
| 'int'
| 'let'
| 'match'
| 'null'
| 'of'
| 'pragma'
| 'relocatable'
| 'returns'
| 'static'
| 'switch'
| 'true'
| 'try'
| 'type'
| 'typeof'
| 'anonymous'
| 'break'
| 'constant'
| 'continue'
| 'external'
| 'indexed'
| 'internal'
| 'payable'
| 'private'
| 'public'
| 'pure'
| 'view'