Attribute Grammar

Attributes

Symbol	Attribute Name	lava Ivna	Inherited/ Synthesized	Description
variable	varDef	VarDefinition	synthesized	Guardar referencia
varDefinition	scope	int	synthesized	Local o Global
FunctionCall (both)	func	FunctionDefinition	synthesized	Guardar referencia
run	func	functionDefinition	synthesized	Guardar referencia
structype	structDef	structDefinition	synthesized	Guardar referencia
fieldDef	structDef	structDefinition	synthesized	Guardar referencia

Sumado a las siguientes tablas y Mapas:

VarDefinitions, structDefinitions, fieldDefinitions, functionDefinitions, functionCreations

Rules

Node	Predicates	Semantic Functions
program → name:string		
definition*		
functionCreation*		
functionDefinition* run		
functionCreation → name:string	Not FunctionCreation in functionCreations	FunctionCreations.add(functionCre ation)
varDefinition:definition → name:String type	Not VarDefinition in varDefinitions (from Top)	VarDefinitions.add(varDefinition) setScope(varDefinitions.scope)
structDefinition:definiti		StructDefinitions.add(structDefinitio
on → name:string	Not StructDefinition in structDefinitions	n) for field in fields:
fieldDefinition*		field.setStructDef = structDef
fieldDefinition:definition	Not fieldDefinition in fieldDefinitions	FieldDefinitions.add(fieldDefinition)
→ name:string type	Not held be initions	i leidbeilillions.add(ileidbeilillion)
functionDefinition:defi		
nition → name string		
parameters: varDefinition*	Not FunctionDef in funcDefs	FuncDefinitions.add(funcDefinition)
type? locals:varDefinition* statement*		
print:statement →		
expression*		
println:statement →		
expression*		
read:statement →		
expression*		
functionCallStatement:		FunctionCall.funcDef(funcDefFound
	FunctionCall in FunctionDefinitions	
expression*		
assignment:statement		
→ left:expression		
right:expression		
Ingin. expression		

n.setFuncDef(funcDefFound)
nctionCall.funcDef(funcDefFound
`

relationalBinary:expres	
sion → left:expression	
operator:String	
right:expression	

Operators samples (cut & paste if needed): $\Rightarrow \Leftrightarrow \neq \varnothing \in \notin \cup \cap \subset \neq \Sigma \exists \forall$