1 Code Specification

Nodo	Predicados	Reglas Semánticas
program → ast:AST*		dirAcumu = 0 Ast.forEach(ast -> if ast == defvar {ast.address = dirAcumu; dirAcumu += ast.type.size })
		parameter _i .addres = $4 + \Sigma$
francidat a nama Ctuing nama atau na van atau		parameter _i .type.size 0 <= j < i
<pre>func:def → name:String parameter:parameter* retorno:type defvar:defVar* sentence:sentence*</pre>		$defVar_{i}.address = \sum -$ $defVar_{i}.type.size *$ $defVar_{i}.name.size 0 <= j < i$
defVar :def → <i>name</i> :String <i>type</i> :type		
parameter :def → <i>name</i> :String <i>type</i> :type		
defStruct :def → name:String parameter:parameter*		Parameter(i).address =
		\sum parameter.type.size 0 <= j < i
intType :type $\rightarrow \lambda$		IntType.size = 2
realType:type $\rightarrow \lambda$		realType.size = 4
charType :type $\rightarrow \lambda$		CharType.size =1
arrayType:type → index:int type:type		ArrayType.size = type.size * index
structType :type \rightarrow <i>name</i> :String		StructType.size = ΣgetStruct.param.size
voidType :type $\rightarrow \lambda$		
print :sentence → <i>string</i> :String <i>expr</i> :expr		
read:sentence → expr:expr		
assignment :sentence → <i>left</i> :expr <i>right</i> :expr		
ifSentence :sentence → <i>condition</i> :expr <i>iftrue</i> :sentence*		
$ifElseSentence: sentence \rightarrow condition: expr\ iftrue: sentence * \ else1: sentence *$		
whileSentence :sentence \rightarrow <i>condition</i> :expr <i>sentence</i> :sentence*		
returnNode :sentence $\rightarrow expr$:expr		
funcCall :sentence \rightarrow <i>name</i> :String <i>args</i> :expr		

	<u> </u>	
exprAritmetica :expr \rightarrow <i>left</i> :expr <i>op</i> :String <i>right</i> :expr		
exprLogica :expr \rightarrow <i>left</i> :expr <i>op</i> :String <i>right</i> :expr		
exprLogicaNe :expr \rightarrow <i>expr</i> :expr		
acces :expr \rightarrow <i>left</i> :expr <i>right</i> :String		
arrayAcces :expr \rightarrow <i>left</i> :expr <i>right</i> :expr		
cast :expr \rightarrow <i>typeToConvert</i> :type <i>expr</i> :expr		
litEnt :expr → <i>string</i> :String		
litReal :expr → <i>string</i> :String		
litChar :expr → <i>string</i> :String		
variable:expr → string:String		
methodCallExpr :expr \rightarrow <i>name</i> :String <i>args</i> :expr*		

1.1 Atributos

Nodo/Categoría Sintáctica	Nombre del atributo	Tipo Java	Heredado/Sintetizado	Descripción
DefVar	Address	int	Heredado	
Туре	size	int	Sintetizado	

1.2 Estructuras de Datos Auxiliares

Nombre	Tipo Java	Descripción

1.3 Funciones Auxiliares