Apresentação - Projeto 3

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Conteúdo

- Contribuição no desenvolvimento
- Descrição da linguagem X
- Visão geral da gramática de atributos
- Funcionamento do programa
- 6 Agradecimentos

Trabalho realizado de forma individual

Todas as tarefas realizadas por:

Levi Cícero Arcanjo

Subconjunto da linguagem C

Características:

- Tipos: int, char, float
- Operações: soma, multiplicação, subtração, divisão, operadores lógicos, condicionais e loops

Subconjunto da linguagem C

Características:

- Nomes variáveis podendo iniciar com qualquer letra de a-z, A-Z ou underline, seguidas por qualquer letra de a-z, A-Z, underline e números.
- Palavras reservadas são: int, char, float, void, if, else, while, return e for

Regras Sintáticas			Gramática de atributos
<s></s>	::=	<type> <identifier> <s0> <s></s></s0></identifier></type>	<identifier>.type = <type></type></identifier>
<s></s>	::=	λ	
<s0></s0>	::=	; <s0_></s0_>	
<s0></s0>	::=	<function_></function_>	
<declaration></declaration>	::=	<type> <identifier> <declaration_></declaration_></identifier></type>	<identifier>.type = <type></type></identifier>

<declaration_></declaration_>	::=	;	
<declaration_></declaration_>	::=	, <identifier> <declaration_></declaration_></identifier>	
<identifier></identifier>	::=	id	id.type = <identifier>.type</identifier>

<value></value>	::=	number	<type>.type = int</type>
<value></value>	::=	decimal	<type>.type = float</type>
<value></value>	::=	string	<type>.type = char</type>
<value></value>	::=	character	<type>.type = char</type>
<function></function>	::=	<type> <identifier> <function_></function_></identifier></type>	<identifier>.type = <type></type></identifier>
<function_></function_>	::=	(<f0>) <statement></statement></f0>	
<f0></f0>	::=	<type> <identifier> <f1></f1></identifier></type>	<identifier>.type = <type></type></identifier>
<f0></f0>	::=	λ	

<iteration></iteration>	::=	while (<expresion>) <statetment></statetment></expresion>	<iteration>.scope = currentScope + 1</iteration>
<iteration></iteration>	::=	for (<iteration_> ; <iteration_> ; <iteration_>) <statement></statement></iteration_></iteration_></iteration_>	<iteration>.scope = currentScope + 1</iteration>
<selection></selection>	::=	if (<expresion>) <statement> <else></else></statement></expresion>	<selection>.scope = currentScope + 1</selection>
<else></else>	::=	else <statement></statement>	<else>.scope = currentScope + 1</else>

_			
<assignment></assignment>	::=	<primary> <assignment_></assignment_></primary>	<primary>.type = <assignment_>.type, <assignment>.value = <primary>.value</primary></assignment></assignment_></primary>
<assignment_></assignment_>	::=	<operator> <assignment></assignment></operator>	
<assignment_></assignment_>	::=	λ	
<primary></primary>	::=	<identifier></identifier>	<primary>.type = <identifier>.type</identifier></primary>
<primary></primary>	::=	<value></value>	<primary>.type = <value>.type</value></primary>
<expresion></expresion>	::=	<assignment> <expresion_></expresion_></assignment>	<expresion>.value = <assignment>.value</assignment></expresion>

Funcionamento do programa

Obrigado pela atenção!