

Linguagem Javinha:

Programa --> Classe¹

Classe --> "public" "class" ID ListaDeclaraVar ListaCmd "end"²

ListaDeclaraVar --> TipoPrimitivo ID ";" ListaDeclaraVar³ | ϵ ⁴

TipoPrimitivo --> "integer"⁵ | "string"⁶ | "double"⁷

ListaCmd --> CmdDispln ListaCmd⁸ | CmdAtrib ListaCmd⁹ | ϵ ¹⁰

CmdDispln --> "SystemOutDispln" "(" Expressao ")" ";"¹¹

CmdAtrib --> ID "=" Expressao ";"¹²

Expressao --> Expressao1 Expressao'¹³

Expressao' --> ">" Expressao1 Expressao'¹⁴ | "<" Expressao1 Expressao'¹⁵ |
">=" Expressao1 Expressao'¹⁶ | "<=" Expressao1 Expressao'¹⁷ |
"==" Expressao1 Expressao'¹⁸ | "!=" Expressao1 Expressao'¹⁹ | ϵ ²⁰

Expressao1 --> Expressao2 Expressao1'²¹

Expressao1' --> "+" Expressao2 Expressao1'²² | "-" Expressao2 Expressao1'²³ | ϵ ²⁴

Expressao2 --> Expressao3 Expressao2'²⁵

Expressao2' --> "*" Expressao3 Expressao2'²⁶ | "/" Expressao3 Expressao2'²⁷ | ϵ ²⁸

Expressao3 --> ConstNumInt²⁹ | ConstNumDouble³⁰ | ConstString³¹ | ID³²

FIRST e FOLLOW:

	FIRST	FOLLOW
Programa	public	\$
Classe	public	\$
ListaDeclaraVar	integer, string, double, ϵ	SystemOutDispln, ID, end
TipoPrimitivo	integer, string, double	ID
ListaCmd	SystemOutDispln, ID, ϵ	end
CmdDispln	SystemOutDispln	SystemOutDispln, ID, end
CmdAtrib	ID	SystemOutDispln, ID, end
Expressao	ConstNumInt, ID, ConstNumDouble, ConstString), ;
Expressao'	>, <, >=, <=, ==, !=, ϵ), ;
Expressao1	ConstNumInt, ID, ConstNumDouble, ConstString	>, <, >=, <=, ==, !=,), ;
Expressao1'	+, -, ϵ	>, <, >=, <=, ==, !=,), ;
Expressao2	ConstNumInt, ID, ConstNumDouble, ConstString	+, -, >, <, >=, <=, ==, !=,), ;
Expressao2'	*, /, ϵ	+, -, >, <, >=, <=, ==, !=,), ;
Expressao3	ConstNumInt, ID, ConstNumDouble, ConstString	*, /, +, -, >, <, >=, <=, ==, !=,), ;

TP:

	public	class	end	;	integer	double	string	System Out Displn	()	ID	=	>	<	>=	<=	==	!=	+	-	*	/	Const Num Int	Const Num Double	Const Strin g	\$
Programa	1																									Synch()
Classe	2																									Synch()
ListaDeclaraVar			4		3	3	3	4			4															
TipoPrimitivo					5	7	6				Synch 0															
ListaCmd			10					8			9															
CmdDispln			Synch 0					11			Synch 0															
CmdAtrib			Synch 0					Synch()			12															
Expressao				Synch 0					Synch 0	13													13	13	13	
Expressao'				20					20			14	15	16	17	18	19									
Expressao1				Synch 0					Synch 0	21		Synch 0	Synch 0	Synch 0	Synch 0	Synch h()	Synch 0						21	21	21	
Expressao1'				24					24			24	24	24	24	24	24	22	23							
Expressao2				Synch 0					Synch 0	25		Synch 0	Synch 0	Synch 0	Synch 0	Synch h()	Synch 0	Synch 0	Synch 0				25	25	25	
Expressao2'				28					28			28	28	28	28	28	28	28	28	26	27					
Expressao3				Synch 0					Synch 0	32		Synch 0	Synch 0	Synch 0	Synch 0	Synch h()	Synch 0	Synch 0	Synch 0	Synch 0	Synch 0	29	30	31		