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ESPECIFICAÇÃO DOS TOKENS - AJA++

# **Sumário**

- 1. Linguagem de Implementação**
- 2. Enumeração e categorias dos tokens**
- 3. Tabela**

## 1 - Linguagem da Implementação

A linguagem de programação adotada para a implementação dos analisadores léxico e sintático da linguagem AJA++ foi C++.

## 2 - Enumeração e categorias dos tokens

```
enum Token {  
    Identificator,  
    DefFunction,  
    ReservedMain,  
    TypeVoid,  
    TypeInteger,  
    TypeDouble,  
    TypeChar,  
    TypeBoolean,  
    TypeString,  
    TypeList,  
    OpenBrace,  
    CloseBrace,  
    OpenBrack,  
    CloseBrack,  
    OpenPar,  
    ClosePar,  
    EndLine,  
    ReservedIf,  
    ReservedElseIf,  
    ReservedElse,  
    ReservedFor,  
    ReservedWhile,  
    ReservedWrite,  
    ReservedRead,  
    SignalSemiColon,  
    SignalComma,  
    OperationAdd,  
    OperationSub,  
    OperationMult,  
    OperationDiv,  
    OperationInc,  
    OperationDec,
```

```

    OperationConc,
    OperationNot,
    OperationXor,
    OperationOr,
    OperationAnd,
    LogicAnd,
    LogicOr,
    LogicNot,
    AttributionEqual,
    RelationEqual,
    RelationNotEqual,
    RelationGreater,
    RelationLower,
    RelationGreaterEqual,
    RelationLowerEqual,
    ReservedReturn,
    CharConst,
    StringConst,
    DoubleConst,
    IntConst,
    BooleanConst,
    SignalDot,
    ReservedAppend,
};

```

### 3 - Tabela

0	Identificator	'[:alpha:][:alnum:]]*'
1	DefFunction	'function'
2	ReservedMain	'main'
3	TypeVoid	'void'
4	TypeInteger	'itg'
5	TypeDouble	'dbl'
6	TypeChar	'chr'
7	TypeBoolean	'bool'
8	TypeString	'str'
9	TypeList	'list'
10	OpenBrace	'{'
11	CloseBrace	'}'

12	OpenBrack	'['
13	CloseBrack	']'
14	OpenPar	'('
15	ClosePar	)'
16	EndLine	'\n'
17	ReservedIf	'if'
18	ReservedElseIf	'elseif'
19	ReservedElse	'else'
20	ReservedFor	'for'
21	ReservedWhile	'while'
22	ReservedWrite	'write'
23	ReservedRead	'read'
24	SignalSemiColon	','
25	SignalComma	','
26	OperationAdd	'+'
27	OperationSub	'-'
28	OperationMult	'*'
29	OperationDiv	'/'
30	OperationInc	'++'
31	OperationDec	'--'
32	OperationConc	'+='
33	OperationNot	'!'
34	OperationXor	'^'
35	OperationOr	' '
36	OperationAnd	'&'
37	LogicAnd	'and'
38	LogicOr	'or'
39	LogicNot	'not'
40	AtributionEqual	'='
41	RelationEqual	'=='
42	RelationNotEqual	'!='
43	RelationGreater	'>'
44	RelationLower	'<'
45	RelationGreaterEqual	'>='
46	RelationLowerEqual	'<='
47	ReservedReturn	'return'
48	CharConst	'\''
49	StringConst	'\"'
50	DoubleConst	'[[[:digit:]]+\.[[:digit:]]+'
51	IntConst	'[[[:digit:]]+'
52	BooleanConst	'true false'
53	SignalDot	'.'
54	ReservedAppend	'append'