Universidad San Carlos de Guatemala

Lenguajes Formales y de Programación

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Documentación:

Operadores Aritméticos

+|-|*|/|++|--

Operadores Relacionales

>|<|>=|<=|!=

Operadores Lógicos

• &&|"||"|!

Expresiones regulares.

• Numero: "-"?[0-9]+("."[0-9]+)?\$

• Cadena: "([Palabra]|[Espacio])+"

• Palabra: [a-z]|[A-Z]

Letras: (L|LL+)\$

• Boolean: verdadero falso

Signos de agrupación

• (|)

Asignacion o Fin de Sentencia

• ;|=

Comentarios

• /{/([char]|tab|space|)*}|{*([char][wspace])* */

Palabras reservadas:

- entero
- decimal
- cadena
- booleano
- carácter
- verdadero
- falso
- SI
- SINO
- SINO_SI

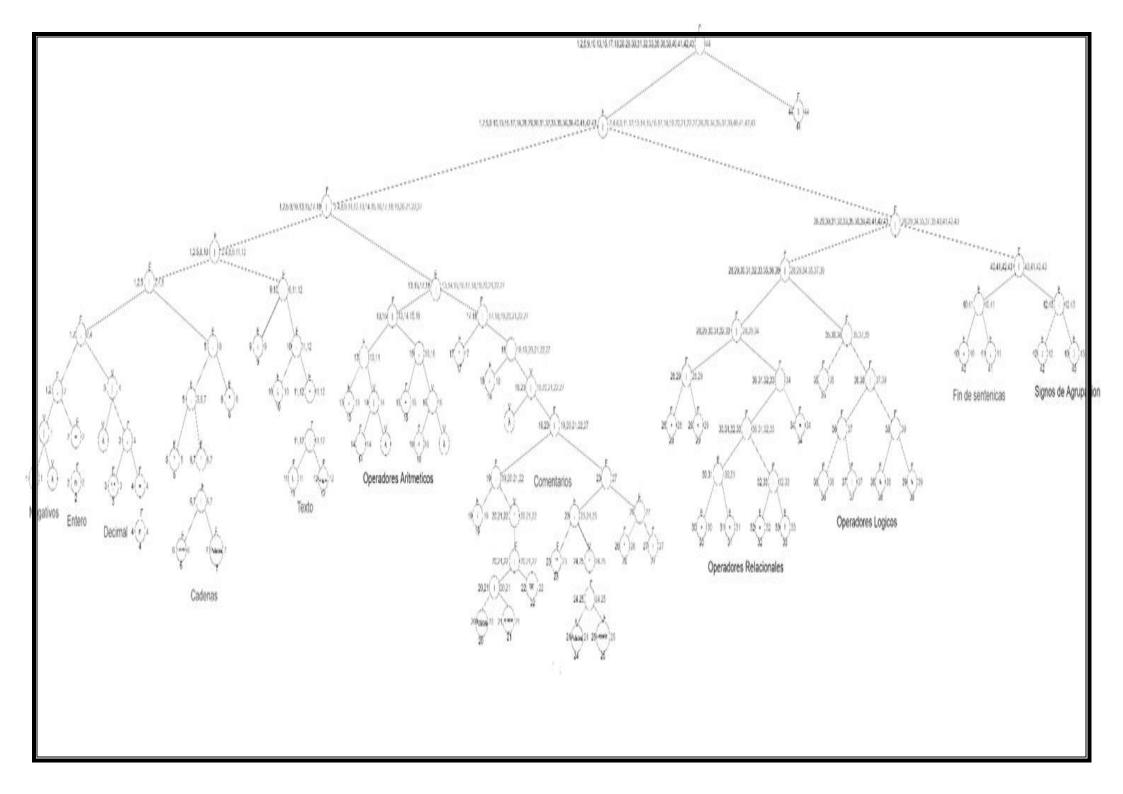


- MIENTRAS
- HACER
- DESDE
- HASTA
- INCREMENTO

Cadenas en la que terminan.

- =
- •

ARBOL:



| No. | Σ | Siguientes | |
|-----|---------|-------------|--|
| 1 | - | 2 | |
| 2 | n | 2,3,44 | |
| 3 | | 4 | |
| 4 | n | 4,44 | |
| 5 | II | 5,6,7,8 | |
| 6 | palabra | 6,7,8 | |
| 7 | espacio | 6,7,8 | |
| 8 | II | 44 | |
| 9 | L | 44 | |
| 10 | L | 11,12 | |
| 11 | L | 11,12,44 | |
| 12 | - | 11,12,44 | |
| 13 | = | 14,44 | |
| 14 | - | 44 | |
| 15 | + | 16,44 | |
| 16 | + | 16,44 | |
| 17 | * | 44 | |
| 18 | / | 19,23,44 | |
| 19 | / | 20,21,22,44 | |
| 20 | palabra | 20,21,22,44 | |
| 21 | space | 20,21,22,44 | |
| 22 | tab | 20,21,22,44 | |
| 23 | 11 | 24,25,26 | |
| 24 | palabra | 24,25,27 | |
| 25 | II | 24,25,28 | |
| 26 | * | 27 | |
| 27 | / | 44 | |
| 28 | < | 43 | |
| 29 | > | 43 | |
| 30 | < | 34 | |
| 31 | > | 34 | |
| 32 | = | 34 | |
| 33 | ? | 34 | |
| 34 | = | 44 | |
| 35 | | 44 | |
| 36 | | 37 | |
| 37 | / | 44 | |
| 38 | & | 39 | |

| 39 | & | 44 |
|----|----|----|
| 40 | = | 44 |
| 41 | , | 44 |
| 42 | (| 44 |
| 43 |) | 44 |
| 44 | \$ | |

Transiciones:

| Transiciones | | | | | |
|--------------------|---------------------|---------------------|---------------------|--|--|
| d(S0,-)=S1 | d(S0, >)=S17 | d(S1,n)=S2 | <u>d(S8,") =S14</u> | | |
| d(S0,n)=S2 | d(S0, <)=S17 | d(S2,n)=S2 | d(S9,I) =S4 | | |
| d(S0,")=S3 | d(S0, =)=S17 | d(S2,))=S11 | d(S10,&) =S4 | | |
| d(S0,L)=S4 | d(S0, I)=S217 | d(S3,palabra)=S3 | d(11,n) =S15 | | |
| d(S0,L)=S5 | d(S0, I)=S4 | d(S3,espacio)=S3 | d(S12,L) =S12} | | |
| d(S0,-)=S6 | d(S0, i)=S9 | d(S5,*)=S4 | d(S12,-) =S12 | | |
| d(S0,+)=S7 | d(S0, &)=S10 | d(S5,L)=S12 | d(S13,palabra) =S13 | | |
| d(S0,"*)=S4 | d(S0, =)=S4 | d(S8,")=S12 | d(S13,space) =S13 | | |
| d(S0,/)=S8 | d(S0, ;)=S4 | d(S6,*)=S4 | d(S13,tab) =S13 | | |
| d(S0,<)=S4 | d(S0, ()=S4 | d(S7,+)=S4 | d(S14,palabra) =S14 | | |
| d(S0, >)=S4 | d(S0,))=S4 | d(S8,/)=S12 | d(S14,espacio) =S14 | | |
| d(S17,espacio) =S4 | d(S16,espacio) =S15 | d(S15,espacio) =S16 | d(S15,espacio) =S4 | | |

Estados:

+5, [1,2,3,4,5,6,7,8,9,16,13,15,17,18,28,29,30,31,32,33,35,36,38,40,41,42,43)

5:9(7) = 53

59(8) = SY

-P56 = (14,49)

