**Expresiones Regulares**

L= {a-z, A-Z}

S= { = | } | { | ; | [ | ] | ( | ) | , | ; } (para símbolos en código se identificara cada uno)

D= {0,1,2,3,4,5,6,7,8,9}

C={“}

P={.}

**Token Reservada**

L+

**Token cadena**

C(^”)\*C

**Token Comentarios**

(#)(^”)\*

**Token Multicomentario**

(‘’’)(^”)\*(‘’’)

**Token Entero/Decimal**

(+|-)?D+((P)(D+))?

**Árbol Binario de Sintaxis:**

Diagrama

Descripción generada automáticamente con confianza media

|  |  |  |
| --- | --- | --- |
| **Valor** | **Hoja** | **Siguientes** |
| L | 1 | 1,16 |
| C | 2 | 3,4 |
| ^” | 3 | 4,3 |
| C | 4 | 16 |
| # | 5 | 6,16 |
| ^” | 6 | 6,16 |
| ‘’’ | 7 | 8,9 |
| ^” | 8 | 8,9 |
| ‘’’ | 9 | 16 |
| + | 10 | 12 |
| - | 11 | 12 |
| D | 12 | 12,13,16 |
| P | 13 | 14 |
| D | 14 | 14,16 |
| S | 15 | 16 |
| $ | 16 | --- |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Estado | Valores | Siguientes |
|  | S0 | L C # ‘’’ + - D S | L={1,16}=S1  C={3,4}=S2  #={6,16}=S5  ‘’’={8,9}=S6  +={12}=S7  -={12}=S7  D={12,13,16}=S8  S={16}=S11 |
| Aceptación | S1 | L $ | L={1,16}=S1 |
|  | S2 | ^” C | ^”={4}=S3  C={16}=S4 |
|  | S3 | C | C={16}=S4  ^”={4}=S3 |
| Aceptación | S4 | $ |  |
| Aceptación | S5 | ^” $ | ^”={6}=S5 |
|  | S6 | ^” ‘’’ | ^”={8,9}=S6  ‘’’={16}=S4 |
|  | S7 | D | D={12,13,16}=S8 |
| Aceptación | S8 | D P $ | D={12,13,16}=S8  P={14}=S9 |
|  | S9 | D | D={14,16}=S10 |
| Aceptación | S10 | D $ | D={14,16}=S10 |
| Aceptación | S11 | $ |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Estado | L | C | ^” | # | ‘’’ | + | - | D | P | S |
|  | S0 | S1 | S2 |  | S5 | S6 | S7 | S7 | S8 |  | S11 |
| Aceptación | S1 | S1 |  |  |  |  |  |  |  |  |  |
|  | S2 |  | S4 | S3 |  |  |  |  |  |  |  |
|  | S3 |  | S4 | S3 |  |  |  |  |  |  |  |
| Aceptación | S4 |  |  |  |  |  |  |  |  |  |  |
|  | S5 |  |  | S5 |  |  |  |  |  |  |  |
|  | S6 |  |  | S6 |  | S4 |  |  |  |  |  |
|  | S7 |  |  |  |  |  |  |  | S8 |  |  |
|  | S8 |  |  |  |  |  |  |  | S8 | S9 |  |
|  | S9 |  |  |  |  |  |  |  | S10 |  |  |
|  | S10 |  |  |  |  |  |  |  | S10 |  |  |
| Aceptación | S11 |  |  |  |  |  |  |  |  |  |  |

Diagrama

Descripción generada automáticamente