Manual Técnico Proyecto#02 - LFP

Compatibilidad

Tabla de tokens

Gramática Utilizada

Métodos de Árbol y Autómatas

Claves

Datos

Número Entero

Número Decimal

Comentario

Funciones Utilizadas

Upload file()

Analyze_file()

student information()

reports_view()

exit_aplication()

Compatibilidad

-Windows 10

-Linux

Tabla de tokens

Tabla

<u>Aa</u> TOKEN	
<u>REGISTROS</u>	REGISTROS
CLAVES	CLAVES
max	max
<u>min</u>	min
<u>average</u>	promedio
<u>count</u>	count
parenthesis_that_opens	(
parenthesis_that_closes)
Closed_key	}
Open_key	{
two_points	
<u>semicolon</u>	
<u>comma</u>	
<u>equals</u>	=
quotation_mark	п
open_square_bracket	
closed_square_bracket]
int_value	[0-9]+
float_value	[0-9]+.[0-9]+

Aa TOKEN	
count_if	contarsi
<u>data</u>	datos
<u>print</u>	imprimir
<u>println</u>	imprimirIn
<u>sum</u>	sumar
<u>export</u>	exportarReporte
simple_comment	#
multiple_comment	11

Gramática Utilizada

BEGGINING = INSTRUCTIONS _ LIST

INSTRUCTIONS_LIST = INSTRUCTION INSTRUCTION_LIST

INSTRUCTION = KEYS INS

1 REGISTERS _ INS

I PRINT - INS

IPRINTLN_INS

I MAX-INS

IMIN_INS

1 COUNTIF_INS

IEXPORT_INS

ISUM_INS

I DATA - INS

I AVERA GEINS

I COUNT _ INS

INSTRUCTIONS_LIST = INSTRUCTION INSTRUCTIONS_LIST

I GOSPICO

I GOSPICO

I GOSPICO

REGISTERS - Ins = register equal Open-square-bracket

REGISTERS_LIST closed-square_bracket

REGISTERS_LIST = REGISTER REGISTERS_LIST

REGISTERS - LIST = REGISTER REGISTERS - UIST "

1 Clused_saucre_bracket (])

REGISTER = OPEN-HEY ATTRIBUTES_LIST closed- Key

ATTRIBUTES_LIST = ATTRIBUTE ATTRIBUTES_LIST!

ATRIBUTES_LIST' = comma ATTRIBUTE ATTRIBUTES_LIST'
1 & PSibh (3 Closed_Yes)

ATTRIBUTE = string_value 1 int_value | Float_value

instrucción max:

MAX_INS = max parenthesis_mat_opens parenthesis_that_class

instrucción min:

MIN_INS = min Parenthesis_trut_opens parenthesis_trut_closes senicokn

instrucción datas:

DATA-INS = data parentinesis-that-opens parentinesis_that-closes

KEYS_INS = keys equal open-square-bracker KEYS_LIST closed - Equale - bracket # Instrucción claves:

KEYS_LIST = String_value KEYS_LIST

KEYS_ [IST = comma string-value KEYS-LIST! 1 Epsilon

Instruction imprimir:

PRINT_INS = Print parenthesis_that_opens string_value parenthesis - that - closes senicolan

Instruction impremerin:

PRINT LN_INS = printin parenthesis - that-opens string-value parenthesis - that - closes semicolon

INSTRUCCIÓN PROMEDIO:

AUERAGE_INS = average Parenthesis_that_opens string_value porenthesis - that - closes semicolon

* Instrucción conteo &

COUNT_BUS-count parenthesis_that-opens parenthesis_that-clises senticoko

INSTRUCCION SUMON :

SUM_INS = sum parenthesis_that_Opens parenthesis_that_closes somicalon

Instrucción control si:

COUNTIF_INS = Count PF Porenthesis_that_opens string_value

Comma VALUE parenthesis_that_closes semicalen

VALUE = int_value

I Float_value

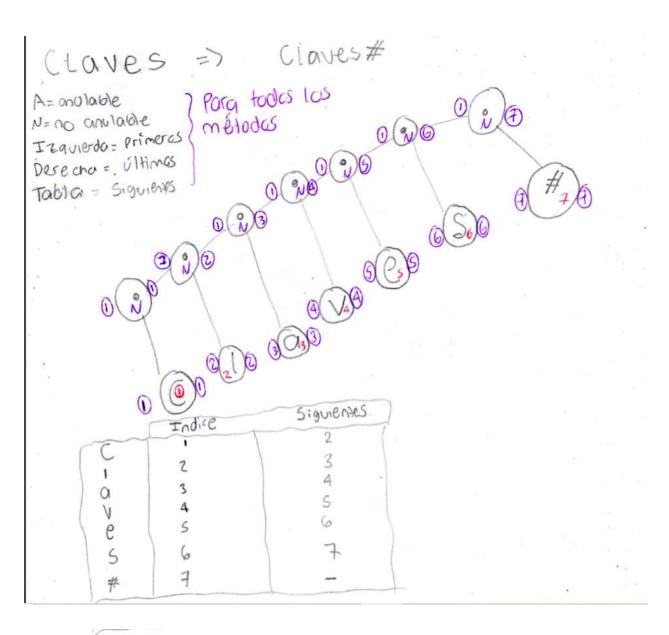
#Instrucción exportor:

EXPORT_INS = export parenthesis_that_opens string_value

parenthesis_that_closes semicolon

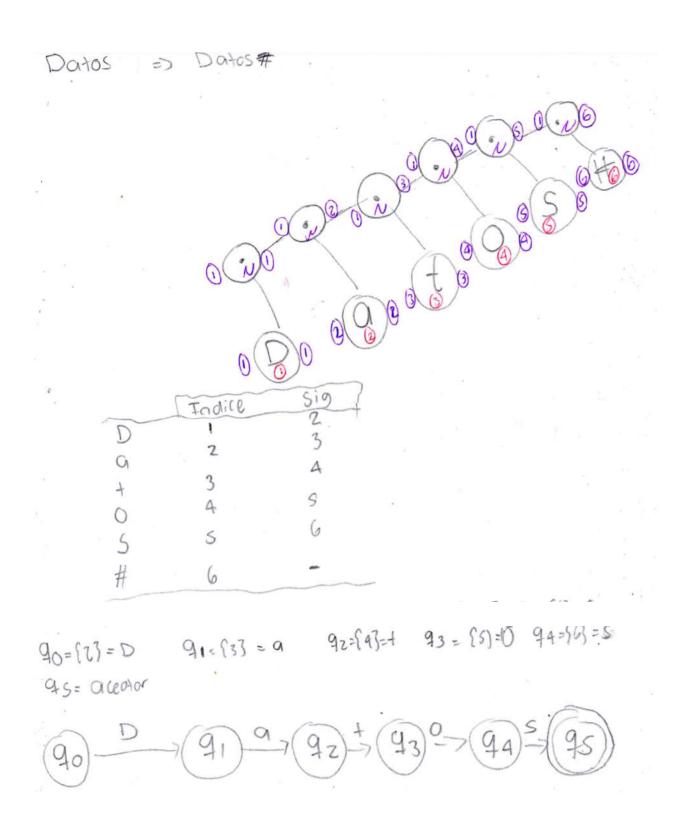
Métodos de Árbol y Autómatas

Claves

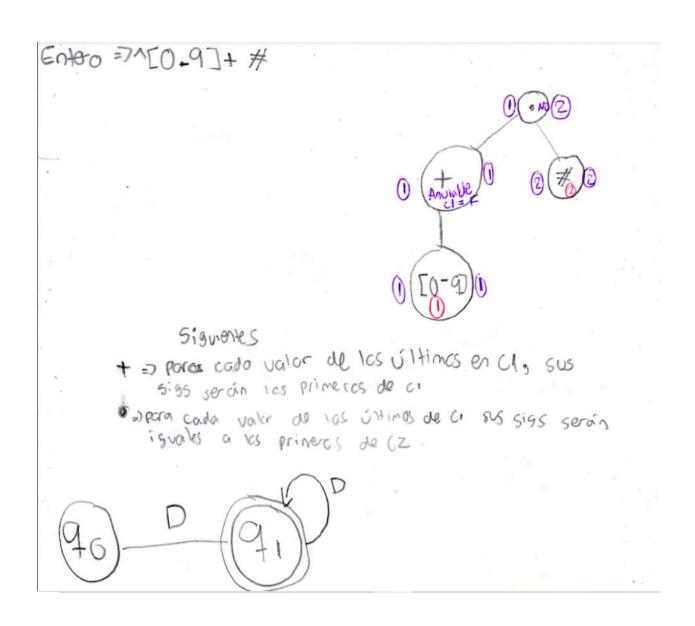


$$90 = (2) = 3$$
 $5:9(1) = 2 = 00$ $5:9(2) = 3 = 91$ $5:9(3) = 4 = 92$
 $5:9(4) = 5 = 93 - 5:9(5) = 6 = 94$ $5:9(6) = 7 = 95$
 $96 - 90000$

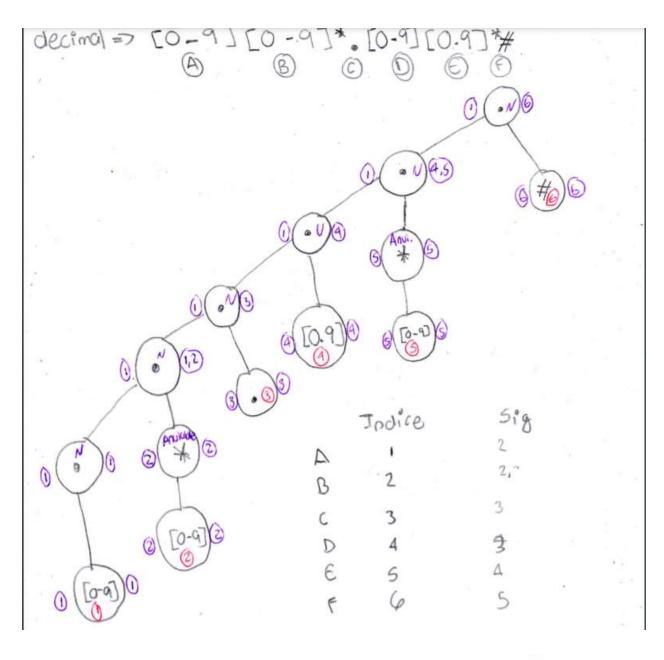
Datos

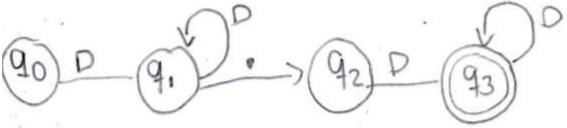


Número Entero



Número Decimal





Comentario

Comentario = / [^ \n]*\n \$

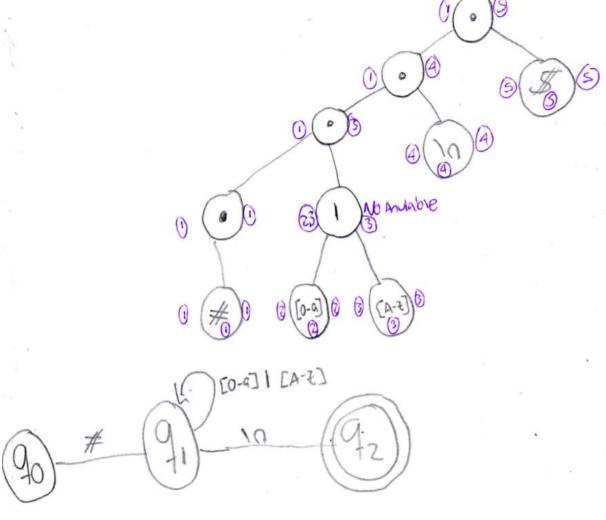
Explica ción Rege x:

/^: Empre ta con [^: Oue no sea "\n" en este asso

\n: caracter a excluir *: 0 ó más acracteres

\n: luego un salto de lireo para terminar

\$: sentinela



Funciones Utilizadas

Upload_file()

Función que se encarga de cargar el archivo de entrada y mostrar el texto en la consola de edición.

```
route=""
original_text=""
def upload_file():
   global route, original_text, editable_text
   route = askopenfilename()
   if route.endswith("lfp"):
        archive = open(route, "r")
       original_text=archive.read()
       archive.close()
       #print(original_text)
       editable_text.insert("1.0", original_text)
       messagebox.showinfo(title="Products Inventory Parser v1.0",
       message="El archivo fue cargado con éxito al sistema!!")
    else:
        messagebox.showerror(title="Products Inventory Parser v1.0",
        message="No es un archivo con extensión 'lfp', intenta de nuevo!!")
        upload_file()
upload_Button.config(command=upload_file)
```

Analyze_file()

Función encargada de recolectar el texto de la consola de edición para su posterior análisis

```
def analyze_file():
    global editable_text,console_text
    lexical_analyzer_handler.lexical_analyze_file(editable_text.get("1.0",'end-1c'))
    list=[]
    for token in token_handler.tokens_list:
        if token.type !="simple_comment" and token.type!="multiple_comment":
            list=[*list,token]
    parser_handler.analyze(list)
    console_text.configure(state='normal')
    console_text.insert("end-1c",register_handler.report_console)
    console_text.configure(state='disabled')
analyze_Button.config(command=analyze_file)
```

student_information()

Función encargada de mostrar la información del estudiante

```
def student_information():
    messagebox.showinfo(title="Products Inventory Parser v1.0",
    message="Master Mind: Erwin Vásquez\n LFP Sección 'B+'\n Proyecto 2")
information_Button.config(command=student_information)
```

reports_view()

Función encargada de abrir los reportes de tokens y errores.

```
def reports_view():
    token_handler.tokens_html_report()
    error_handler.errors_html_report()
    messagebox.showinfo(title="Image Maker V1.0",
    message="Se Abrirán Los siguientes Reportes:\n-Reporte De Tokens\n"
    "-Reporte De errores")
    os.system("C:/Users/Erwin14k/Documents/Products_Inventory_Parser/REPORTES/TOKENS.html")
    os.system("C:/Users/Erwin14k/Documents/Products_Inventory_Parser/REPORTES/ERRORS.html")
reports_Button.config(command=reports_view)
```

exit_aplication()

Función encargada de darle fin a la ejecución de la aplicación.

```
def exit_application():
    exit()
exit_Button.config(command=exit_application)
```