

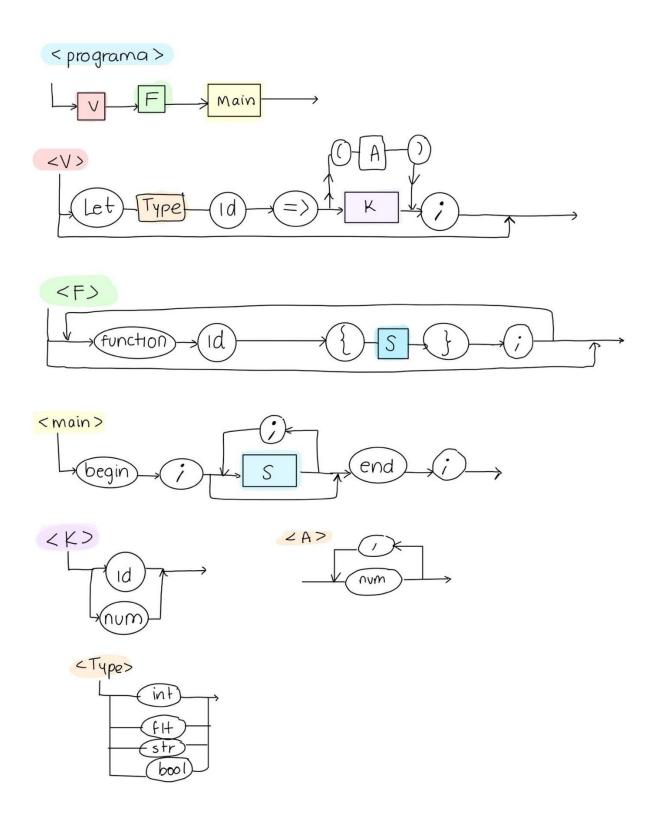
# ANALIZADOR DE LÉXICO Y SINTAXIS

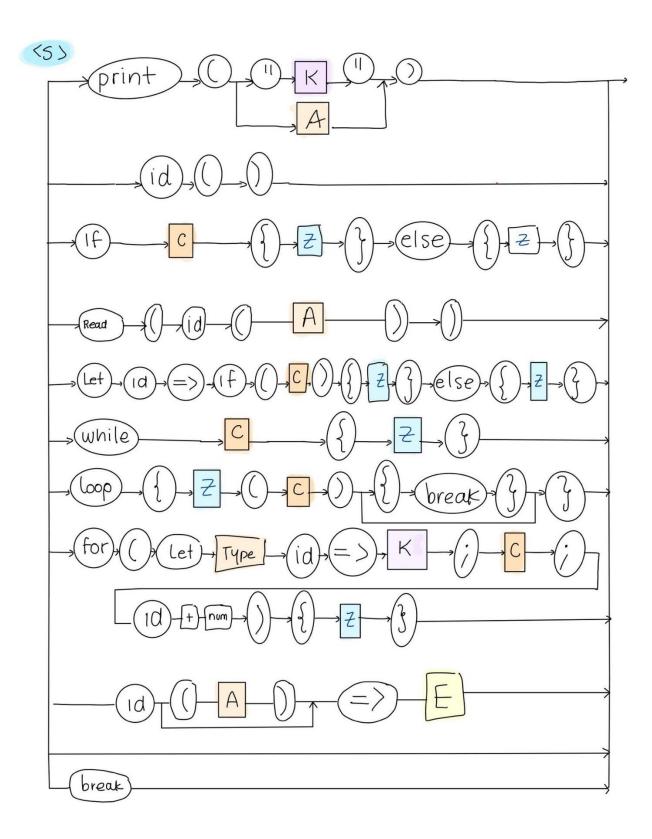
Versión 1

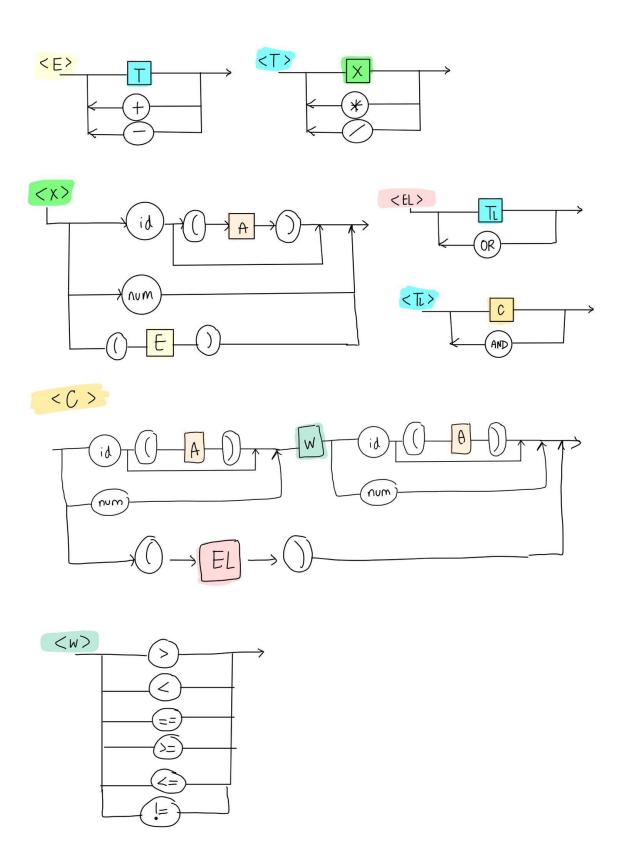
Dra. Norma Frida Roffe S. 7 de octubre de 2021

Kenia Gabriela Sánchez Duran Lenguajes y traductores

## Diagramas de sintaxis

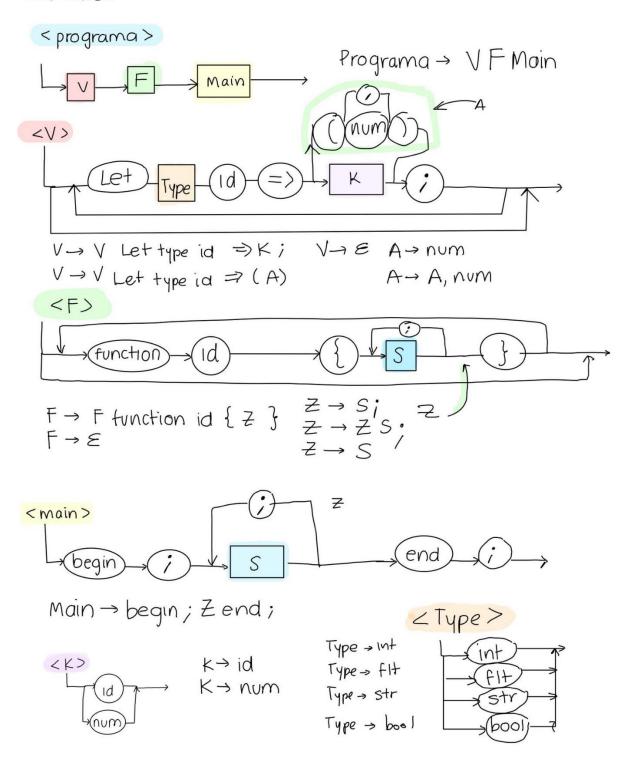


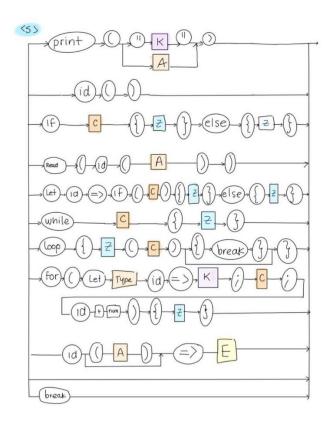




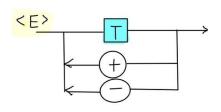
#### Gramática

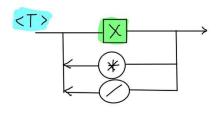
### Gramática

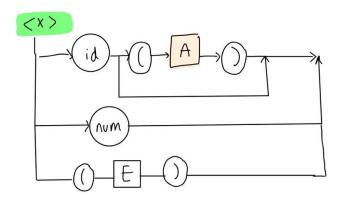




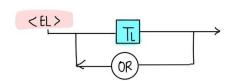
· 
$$S \rightarrow print(M)$$
 ·  $S \rightarrow id()$   
 $M \rightarrow "K"$   
 $M \rightarrow A$ 

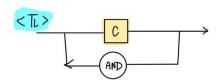


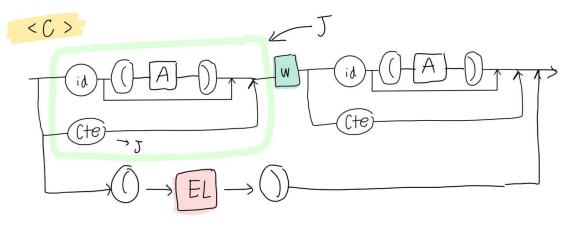




$$F \rightarrow id$$
  
 $F \rightarrow id(A)$   
 $F \rightarrow rum$   
 $F \rightarrow (E)$ 





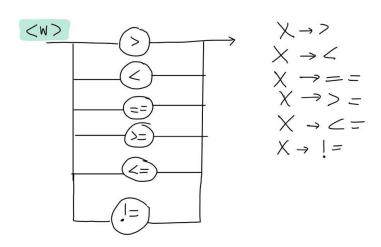


$$C \rightarrow (FL)$$

$$C \rightarrow J w J$$

$$J \rightarrow id$$

$$J \rightarrow id(A)$$



#### Screenshots

• P.P. multiplicación de matrices.

```
test_mat.txt ×
                test.txt
                                testError.txt
test_mat.txt
       Let int id => (num, num, num);
       Let int id => (num, num, num);
       Let int id => (num, num, num);
       function id{
       while id(num,num) != num {
           id => id + num;
       };
       while id(num,num) != num {
           id => id + num;
       };
       while id(num,num) != num {
           id => id + num;
       };
       while id(num,num) != num {
           id => id + num;
       };
       if (id == id and id == id) {
           print("id");
           id();
       else{
           print("id");
       };
       function id(){
           for(Let int id=>num; id > id; id +num){
 33
               for(Let id=>num; id > id; id +num){
               print(id);
           };
           };
       begin;
       id();
       end;
```

```
FSC CLAMBER SAMPALDENCE - Institute Tecologica y de Estadios Septimes de Posterrey/has semestre/Lenguajes y traductores/AnalizadoriesCinto & C./Abers/Annya/macondal/yython.eem "C./Abers/Annya/macondal/yython.eem "C./Abers/Annya/macondal/yython.ee
```

```
comillasdobles
                             id
                                                       id
num
                                                       comillasdobles
                             num
                             ;
}
;
while
num
                                                       ;
id
num
)
;
Let
                             id
                                                      ;
}
else
int
                             num
id
                             num
                                                       print
                             )
!=
num
                                                       comillasdobles
                             num
                             {
id
                                                       id
num
                                                       comillasdobles
num
                             id
function
                             num
                             ;
}
;
while
                                                       ;
function
while
                                                       id
                                                       (
)
{
for
id
                             id
num
                             num
num
                                                       Let
                             num
                             )
!=
                                                       int
                                                                                        ;
id
                                                       id
num
                             num
id
                             {
id
                                                       num
                                                                                        num
                                                       ;
id
id
                                                                ***Incorrecto***
                                                                                        print
                             id
                                                                                        (
id
num
                                                       id
                             num
                                                       ;
id
                             ;
}
;
if
         ***Incorrecto**
while
                                                       num
                             (
id
                                                       )
{
for
id
num
                             id
                                                                                        begin
                                                       Let
                                                                                        ;
id
num
                             and
)
!=
                             id
                                                       id
num
                             id
                                                       num
{
id
                                                       ;
id
                                                                                        end
                             print
id
                                                       id
                                                                                                 ***Correcto***
```

• P.P. expresiones aritméticas y lógicas con paréntesis anidados.

```
▷ □ …
test_mat.txt
                test.txt
test.txt
       Let int id => (num, num, num);
      Let flt id => (num, num, num);
      begin;
      if (num > num){
           id(num, num, num) => id(num,num,num) + id()
       else{
           for(Let int id => id; id >= num; id + num)
               for(Let int id => id; id >= num; id + |
               id => num * num;
       while (id!=id and id==id) {
          id();
       };
 19
       end;
```

```
| Company | Manual |
```





#### • Errores.

```
Let
Let
    id => (num, num, num);
                                                  id
Let
      id => (num, num, num);
                                                  =>
                                                  (
begin;
                                                  num
if (num > num){
    id() => id(num,num,num) + id(num,num,num);
                                                  num
else{
                                                  num
    for( int id => id; id >= num; id + num){
        for(Let id => id; id >= num; id + num){
        id => num * ;
                                                  begin
                                                  if
                                                  (
while id!=id and id==id {
                                                  num
    id();
};
                                                  num
end;
                                                  )
Let
                                                  id
id
                                                  (
    ***Incorrecto***
                                                  )
(
                                                  =>
num
                                                      ***Incorrecto***
                                                  id
num
                                                  (
                                                  num
num
                                                  num
Let
id
                                                  num
```