Hito Intermedio

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1 Gramática Para el Lenguaje

1.1 No Terminales

- start (Simbolo de Inicio)
- assign_operation
- scalar_operation
- vector_operation
- access_operation
- print_operation
- plot_operation
- data_type
- assign_values
- point
- point_array
- access_operation
- math_operation
- scalar_operation
- vector_operation
- modify_operation
- scalar_operator
- vector_operator
- access_operation

1.2 Terminales

- data_type = point_int, point_float, pol_int, pol_float, int, float

- vector_operation = ++ , −− , − , +

- scalar_operation = +. , −. , ∗. , /.

- print,(,) , [,] , ;

- ID, VECTOR_OBJECT, NUMBER, POINT_OBJECT, INTEGER_NUMBER

1.3 Estructura de la Gramática

```
start -> assign_operation | scalar_operation | vector_operation | access_operation
        |print_operation | plot_operation

assign_operation -> data_type ID = assign_values ;

assign_values -> ( point_array ) ; | () ; | access_operation ; | math_operation ;

point_array -> point,point_array | point

scalar_operation -> point_array scalar_operator NUMBER ; |
                access_operation scalar_operator NUMBER ;

vector_operation -> math_operation ; | modify_operation ;

math_operation -> VECTOR_OBJECT vector_operator VECTOR_OBJECT

modify_operation -> VECTOR_OBJECT += POINT_OBJECT

access_operation -> VECTOR_OBJECT[INTEGER_NUMBER]

point -> NUMBER NUMBER

data_type -> point_int | point_float | pol_int | pol_float | int | float

vector_operation -> ++ | -- | - | +

scalar_operator -> +. | -. | *. | /.

print_operation -> print ( ID )

plot_operation -> plot ( ID )
```