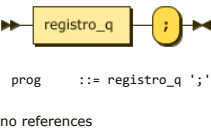
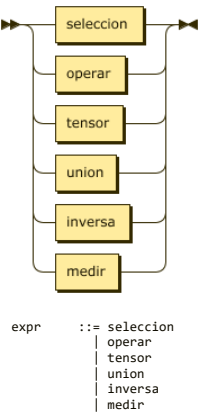


prog:



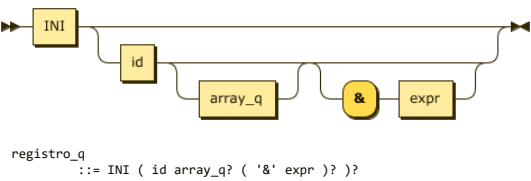
expr:



referenced by:

- inversa
- medir
- operar
- registro_q
- seleccion
- tensor
- union

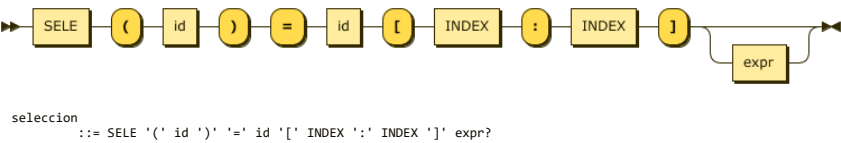
registro_q:



referenced by:

- prog

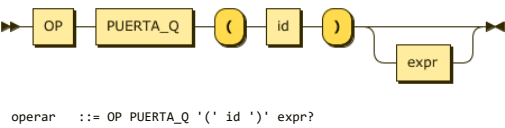
seleccion:



referenced by:

- expr

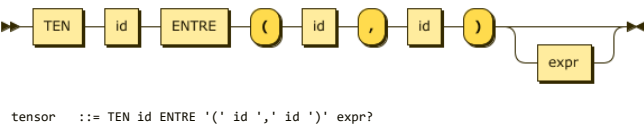
operar:



referenced by:

- expr

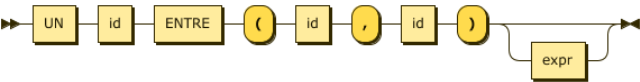
tensor:



referenced by:

- [expr](#)

union:

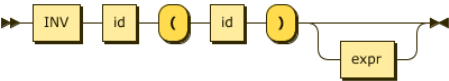


union ::= UN id ENTRE '(' id ',' id ')' expr?

referenced by:

- [expr](#)

inversa:

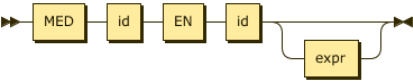


inversa ::= INV id '(' id ')' expr?

referenced by:

- [expr](#)

medir:

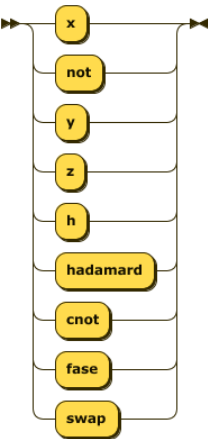


medir ::= MED id EN id expr?

referenced by:

- [expr](#)

PUERTA_Q:



```
PUERTA_Q ::= 'x'
            | 'not'
            | 'y'
            | 'z'
            | 'h'
            | 'hadamard'
            | 'cnot'
            | 'fase'
            | 'swap'
```

referenced by:

- [operar](#)

INI:



```
INI ::= 'inicio'
      | 'INICIO'
```

referenced by:

- [registro_g](#)

SELE:

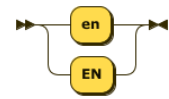


SELE ::= 'seleccion'
| 'SELECCION'

referenced by:

- [seleccion](#)

EN:

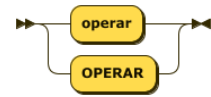


EN ::= 'en'
| 'EN'

referenced by:

- [medir](#)

OP:

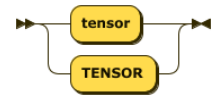


OP ::= 'operar'
| 'OPERAR'

referenced by:

- [operar](#)

TEN:

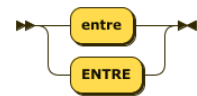


TEN ::= 'tensor'
| 'TENSOR'

referenced by:

- [tensor](#)

ENTRE:

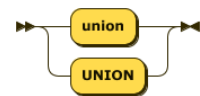


ENTRE ::= 'entre'
| 'ENTRE'

referenced by:

- [tensor](#)
- [union](#)

UN:

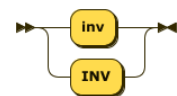


UN ::= 'union'
| 'UNION'

referenced by:

- [union](#)

INV:

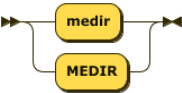


INV ::= 'inv'
| 'INV'

referenced by:

- [inversa](#)

MED:



```
MED ::= 'medir'
      | 'MEDIR'
```

referenced by:

- [medir](#)

id:

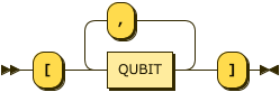


```
id ::= LETRA+ DIGITO*
```

referenced by:

- [array](#)
- [inversa](#)
- [medir](#)
- [operar](#)
- [registro_q](#)
- [seleccion](#)
- [tensor](#)
- [union](#)
- [variable](#)
- [variable declar](#)

array_q:

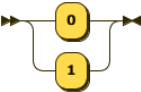


```
array_q ::= '[' QUBIT ( ',' QUBIT )* ']'
```

referenced by:

- [registro_q](#)

QUBIT:

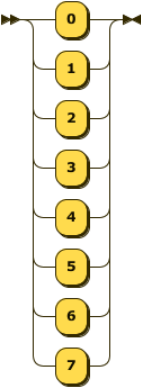


```
QUBIT ::= '0'
        | '1'
```

referenced by:

- [array_q](#)

INDEX:



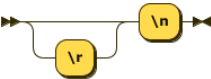
```
INDEX ::= '0'
        | '1'
        | '2'
        | '3'
        | '4'
        | '5'
```

| '6'
| '7'

referenced by:

- [seleccion](#)

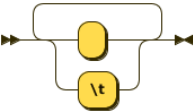
NEWLINE:



NEWLINE ::= '\r'? '\n'

no references

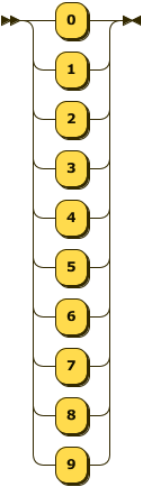
WHITESPACE:



WHITESPACE ::= (' ' | '\t')+

no references

DIGITO:

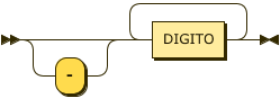


DIGITO ::= '0'
 | '1'
 | '2'
 | '3'
 | '4'
 | '5'
 | '6'
 | '7'
 | '8'
 | '9'

referenced by:

- [N_FLOAT](#)
- [N_INTEGER](#)
- [id](#)

N_INTEGER:

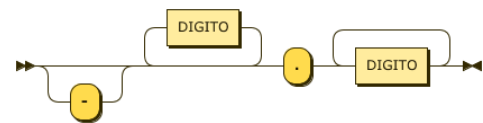


N_INTEGER ::= '-'? DIGITO+

referenced by:

- [array](#)
- [variable declar](#)

N_FLOAT:

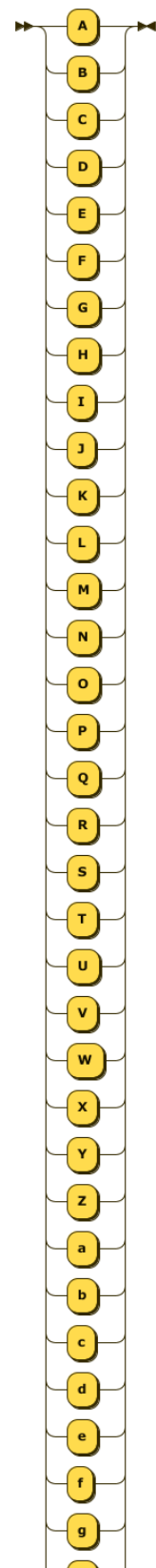


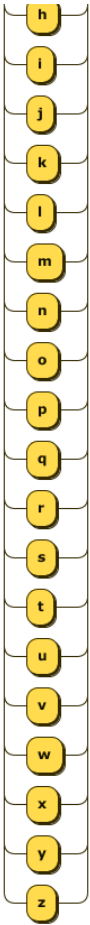
N_FLOAT ::= '-'? DIGITO* '.' DIGITO+

referenced by:

- [array](#)
- [variable declar](#)

LETRA:



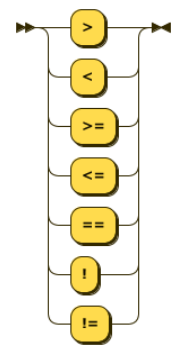


```
LETRA ::= 'A'
      | 'B'
      | 'C'
      | 'D'
      | 'E'
      | 'F'
      | 'G'
      | 'H'
      | 'I'
      | 'J'
      | 'K'
      | 'L'
      | 'M'
      | 'N'
      | 'O'
      | 'P'
      | 'Q'
      | 'R'
      | 'S'
      | 'T'
      | 'U'
      | 'V'
      | 'W'
      | 'X'
      | 'Y'
      | 'Z'
      | 'a'
      | 'b'
      | 'c'
      | 'd'
      | 'e'
      | 'f'
      | 'g'
      | 'h'
      | 'i'
      | 'j'
      | 'k'
      | 'l'
      | 'm'
      | 'n'
      | 'o'
      | 'p'
      | 'q'
      | 'r'
      | 's'
      | 't'
      | 'u'
      | 'v'
      | 'w'
      | 'x'
      | 'y'
      | 'z'
```

referenced by:

- [id](#)

OP_LOGICA:

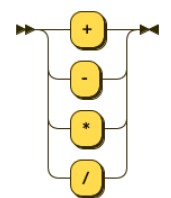


OP_LOGICA ::= '>'
 | '<'
 | '>='
 | '<='
 | '=='
 | '!='

referenced by:

- [condicion](#)

OP_ARITMETICA:

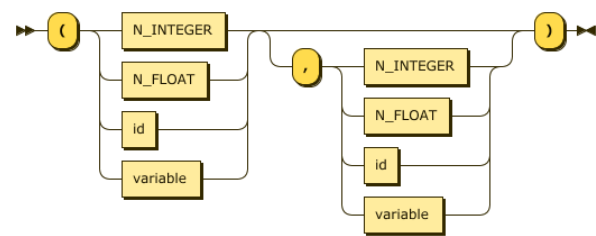


OP_ARITMETICA ::= '+'
 | '-'
 | '*'
 | '/'

referenced by:

- [variable declar](#)

array:

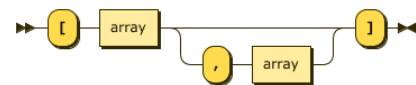


array ::= '(' (N_INTEGER | N_FLOAT | id | variable) (',' (N_INTEGER | N_FLOAT | id | variable))? ')'

referenced by:

- [matriz](#)
- [variable declar](#)

matriz:

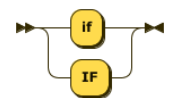


matriz ::= '[' array (',' array)? ']'

referenced by:

- [variable declar](#)

IF:

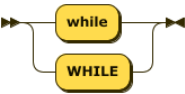


IF ::= 'if'
 | 'IF'

referenced by:

- [if_sencencia](#)

WHILE:

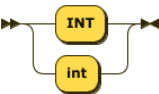


WHILE ::= 'while'
| 'WHILE'

referenced by:

- [while_sencencia](#)

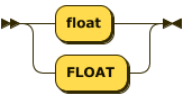
INT:



INT ::= 'INT'
| 'int'

no references

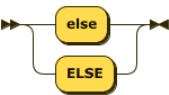
FLOAT:



FLOAT ::= 'float'
| 'FLOAT'

no references

ELSE:

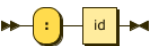


ELSE ::= 'else'
| 'ELSE'

referenced by:

- [else_sencencia](#)

variable:

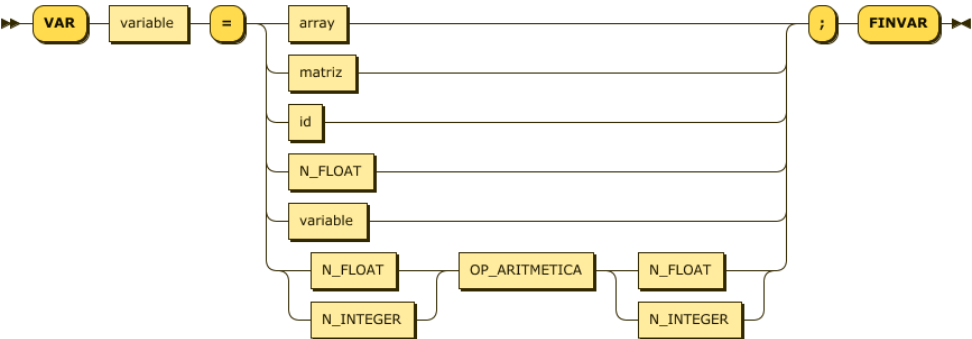


variable ::= ':' id

referenced by:

- [array](#)
- [condicion](#)
- [variable_declar](#)

variable_declar:



variable_declar ::= 'VAR' variable '=' (array | matriz | id | N_FLOAT | variable | (N_FLOAT | N_INTEGER) OP_ARITMETICA (N_FLOAT | N_INTEGER)) ';' 'FINVAR'

referenced by:

- [sentencia](#)

condicion:

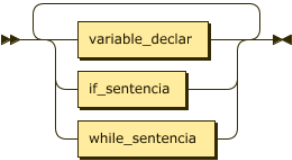


condicion
::= variable OP_LOGICA variable

referenced by:

- [if_sentencia](#)
- [while_sentencia](#)

sentencia:

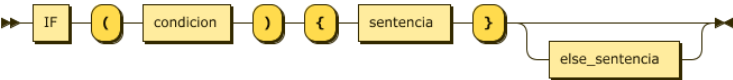


sentencia
::= (variable_declar | if_sentencia | while_sentencia)+

referenced by:

- [else_sentencia](#)
- [if_sentencia](#)
- [while_sentencia](#)

if_sentencia:



if_sentencia
::= IF '(' condicion ')' '{' sentencia '}' else_sentencia?

referenced by:

- [sentencia](#)

else_sentencia:



else_sentencia
::= ELSE '{' sentencia '}'

referenced by:

- [if_sentencia](#)

while_sentencia:



while_sentencia
::= WHILE '(' condicion ')' '{' sentencia '}'

referenced by:

- [sentencia](#)