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#####          BNF          #####  
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## N° Cuenta: 20141010640

<letter> ::= "a"|"b"|"c"|"d" | ... |"z"|"A"|"B" | ... |"Z"

<digit> ::= 1|2|3|4|5|6|7|8|9|0

<number> ::= <digit> | <digit><number>

<variable> ::= <letter> | <letter><variable>

<bool> ::= "true" | "false"

<data\_type> ::= "int"|"float"|"double"|"void"|"char"|"long" |

<arithmetic\_operator> ::= "+" | "-" | "/" | "\*"

<unary\_operator> ::= "++" | "--" | "-"

<logical\_operator> ::= "==" | "!=" | "<" | ">" | "<=" | ">=" | "&" | "|" |

<assignment\_operator> ::= "="

<end\_instruction>    ::-     ";"

<logical\_expresion>   ::-     <variable> <logical\_operator> <variable>

<instruction>        ::-     <data\_type> <variable> <assignation\_operator> <number>

<end\_instruction>    |  
                    <data\_type> <variable> <assignation\_operator> <variable> <end\_instruction>    |  
                    <data\_type> <variable> <logical\_operator> <variable> <end\_instruction>    |  
                    <variable> <end\_instruction> |  
                    <variable> <unary\_operator> <end\_instruction> |  
                    <unary\_operator> <variable> <end\_instruction>

<aritmetic\_operation>    ::-     <number> <aritmetic\_operator> <number>

<sentence>        ::-     <if\_sentence> | <while\_sentence> | <return\_sentence>

<intruction\_block>    ::-     <instruction> | <instruction> <instruction\_block> | <sentence> |  
                    <instruction\_block> <sentence>

<if\_sentence>    ::-     "if" "(" <logical\_expresion> ")" "{" <instruction\_block> "}"

<while\_sentence> ::-    "while" "(" <logical\_expresion> ")" "{" <instruction\_block> "}"

<return\_sentence>   ::-    "return" <end\_instruction> | "return" <variable> <end\_instruction> |  
                    "return" <instruction> <end\_instruction>

<main\_function>     ::-     <data\_type> "main" "(" ")" "{" <instruction\_block> "}"