

<programa> ::= <comando>
 <comando> ::= <if-else> | <atribuicao> | "{" <comando> "
 <if-else> ::= "if" "(" <expressao-logica> ")" <comando>
 | "if" "(" <expressao-logica> ")" <comando> "else"
 <comando><atribuicao> ::= <identificador> "=" <expressao-arit> ";"
 <expressao-logica> ::= <expressao-logica> "||" <expressao-and>
 | <expressao-and>
 <expressao-and> ::= <expressao-and> "&&" <expressao-comp>
 | <expressao-comp>
 <expressao-comp> ::= <expressao-arit> <op-rel> <expressao-arit>
 | "!" <expressao-comp>
 | "(" <expressao-logica> ")"
 | <expressao-arit>
 <op-rel> ::= "==" | "!=" | "<" | "<=" | ">" | ">=" |
 <expressao-arit> ::= <expressao-arit> "+" <termo>
 | <expressao-arit> "-" <termo>
 | <termo>
 <termo> ::= <termo> "*" <fator>
 | <termo> "/" <fator>
 | <fator>
 <fator> ::= "-" <fator>
 | <constante>
 | <identificador>
 | "(" <expressao-arit> ")"

Diagrama:

<constante> ::= <numero>

<numero> ::= <digito> {<digito>} ["." <digito> {<digito>}]

<identificador> ::= <letra> { <letra> | <digito> | "_" }

<letra> ::= "a".."z" | "A".."Z"

<digito> ::= "0".."9"

<programa>

=> <comando>

<comando>

=> <if-else>

=> if (<expressao-logica>) <comando> else <comando>

<expressao-logica>

=> <expressao-logica> || <expressao-and>

=> <expressao-and>

=> <expressao-and> && <expressao-comp>

=> <expressao-comp>

=> <expressao-arit> <op-rel> <expressao-arit>

=> ! <expressao-comp>

=> (<expressao-logica>)

=> <expressao-arit>

<expressao-arit>

=> <expressao-arit> + <termo>

=> <expressao-arit> - <termo>

=> <termo>

=> <termo> * <fator>

=> <termo> / <fator>

=> <fator>

=> - <fator>

=> (<expressao-arit>)

=> <constante>

=> <numero>

=> <digito> {<digito>} [. <digito> {<digito>}]

=> <identificador>

=> <letra> { <letra> | <digito> | _ }

<comando>

=> { <comando> }