**Gramática Libre de Contexto – DodeFast**

parse -> comparative | sentence | var\_declare | proc | **IDEN** | empty

comparative -> **IDEN**  condition expression

sentence -> var\_assign | cases | repeat | do | function

var\_assign -> **IDEN** **EQUALS** expression

cases -> syntax1 | syntax2

syntax1 -> **ENCASO** options1 **SINO**  **LBRACE** actions **RBRACE**  **FINCASO**

options1 -> **CUANDO**  comparative **ENTONS** **LBRACE** actions **RBRACE** more\_options1

more\_options1 -> options1 | empty

syntax2 -> **ENCASO** **IDEN** options2 **SINO** **LBRACE** actions **RBRACE**  **FINCASO**

options2 -> **CUANDO** condition expression **ENTONS** **LBRACE** actions **RBRACE** more\_options2

more\_options2 -> options2 | empty

repeat -> **REPITA** actions **MIENTRAS** comparative

do -> **DESDE**  **IDEN** **EQUALS** expression **HASTA** expression **HAGA** actions **FINDESDE**

actions -> sentence more\_actions

more\_actions -> **SEPARATOR** more\_actions\_aux | empty

more\_actions\_aux -> actions | empty

function -> moves | random | changes

moves -> **MOVER**  **LPAR** **IDEN**  **RPAR**

random -> **ALEATORIO**  **LPAR** **RPAR**

changes -> changes\_aux **LPAR** **IDEN** **COMMA** **INT**  **RPAR**

changes\_aux -> **INC** | **DEC** | **INI**

var\_declare -> **DCL**  **IDEN**  value

value -> initialize | empty

initialize -> **ASSIGN**  expression

proc -> **LLAMAR**  **IDEN**  **LPAR** params **RPAR**

params -> expression more\_params

more\_params -> **COMMA** params | empty

condition -> **SAME** | **LESS** | **MORE** | **NON\_EQUAL** | **LESS\_EQUAL** | **MORE\_EQUAL**

expression -> expression operator expression | **IDEN** | **INT**

operator -> **MULTIPLY** | **DIVIDE** | **PLUS** | **MINUS**

empty -> ε