Character classes

```
-> "0" | "1" | ... | "9"
decimal
                    -> "a" | "b" | ... | "z"
lowercase
                   -> "A" | "B" | ... | "Z"
uppercase
                   -> lowercase | uppercase
anycase
                   -> any unicode character
unichar
                   -> unichar except for "\\" and "\""
strchar
Reserved
                     -> "game" | "piece" | "this" | "width" | "height"
keyword
                     | "title" | "players" | "turnOrder" | "board"
                     | "grid" | "setup" | "wall" | "name" | "possibleDrops"
                     | "possibleMoves" | "winCondition" | "tieCondition"
                    -> "and" | "or"
operator
                  -> "friend" | "foe" | "this" | "empty"
pattern keyword
pattern_operator
                    -> "*" | "?" | "+" | "!"
Literals
integer
                    -> decimal{decimal}
                   -> "n" | "s" | "e" | "w" | "ne" | "nw"
direction
                     | "se" | "sw"
                   -> uppercase{uppercase}decimal{decimal}
coordinate
string
                    -> "\"" {strchar | "\\" unichar} "\""
Identifiers
function
                   -> lowercase anycase{anycase}
                   -> uppercase {anycase}
identifier
variable
                    -> "$" anycase {anycase}
Program structure
program
                    -> {function def} game decl
function def
                   -> "define" function "[" {variable} "]" expression
game decl
                    -> "game" declaration struct
declaration_struct -> "{" declaration {declaration} "}"
declaration
                    -> (keyword | identifier) structure
                    -> declaration struct | expression
structure
Expressions
expression
                    -> function call
                     | element operator expression
                      | if expr
                      | lambda expr
                      | element
element
                          -> "(" expression ")
                      | variable
                      | list
                      | pattern
```

```
| keyword
                      | direction
                     | coordinate
                     | integer
                     | string
                     | identifier
                 -> function list
function_call
                    -> "if" expression "then" expression "else" expression
if expr
lambda_expr
                 -> "#" {varlist} "=>" expression
list
                   -> "[" {element} "]"
Patterns
                    -> "/" pattern_expr "/"
pattern
                    -> pattern_expr {pattern_expr}*
pattern_expr
                     | ( pattern expr )
                     | ( pattern_expr ) integer
                     | pattern_expr "*"
                     | pattern_expr "?"
                     | pattern_expr "+"
                     | pattern_val
pattern val
                     -> direction
                    | pattern_check
                     | "!" pattern_check
                     -> "friend"
pattern_check
                     | "foe"
                     | "empty"
                     | "this"
```

| id