1 Regular Grammar for CUTE Lang

This chapter explains what regular grammar is used in CUTE Lang.

1.1 EBNF

To explain without any complexity, grammar is explained by EBNF (Extended BNF).

EBNF for Regular Grammar

```
= { whites | lexeme } .
program
                        = white .
whites
white
                        = whitechar | comment .
whitechar
                        = newline | vtab | tab | space .
newline
                        = cr lf | cr | lf | ff .
cr
                        = "\r" .
                        = "n".
1f
                        = "\f" .
ff
                        = "\v" .
vtab
                        = "\t" .
tab
space
comment
                        = sl com | ml com .
sl com
                        = sl beg, { sl any }, [ newline ] .
                        = "//" .
sl beg
                        = printable | space | tab .
sl any
                        = ml beg, ml anys, { ml com, ml anys }, ml end .
ml com
ml beg
                        = "*/" .
ml end
                        = { ml any }
ml anys
                          - ( { ml any } ( ml beg | ml end ) { ml any } ) .
                        = printable | whitechar .
ml any
lexeme
                        = id | sym | type literal | value literal
                        | special | res sym | res id .
type literal
                        = simple type | wrapper type literal .
                        = integer | float | char | string .
value literal
                        = "{" | "}" | "," | ";" | "[" | "]" | "(" | ")" .
special
```