Grammar

Definition

These lines contain the grammar matching with the Lutin language, that is used in the project.

1) P → BD BI
2) BD → BD D pv
3) BI → BI I pv
4) D → var id IDL
5) IDL → IDL vir id
6) D → const INI INIL
7) INIL → INIL vir INI
8) INI → id eg num
9) I → ecrire E’
10) I → id aff E’
11) I → lire id
12) E’ → E
13) E → E + T
14) E → E - T
15) E → T
16) T → T * F
17) T → T / F
18) T → F
19) F → (E)
20) F → id
21) F → num
22) BD → ε
23) BI → ε
24) IDL → ε
25) INIL → ε

Indications

Nonterminal symbols

Symbol	Meaning
P	Program
BD	Declaration Block
BI	Instruction Block
D	Declaration
I	Instruction

IDL	IDentifiers List
INI	INItializer
INIL	INItialisers List
E/E’	Expression (‘+’ / ‘-‘ term)
T	Term (‘/’ / ‘*’ term)
F	Final

Terminal symbols

Symbol	Meaning	Regular Expression
+	‘+’ character	+
-	‘-‘ character	-
*	‘*’ character	*
/	‘/’ character	/
(	‘(‘ character	(
)	‘)’ character	)
pv	semicolon	;
id	identifier (variable name)	[a-zA-Z_] [a-zA-Z0-9_]*
var	‘var’ keyword	var
vir	comma	,
const	‘const’ keyword	const
eg	‘=’ character	=
aff	‘:=’ characters	:=
num	number	[0-9]+(,[0-9]+)?
ecrire	‘ecrire’ keyword	ecrire
lire	‘lire’ keyword	lire