Alphabet:

Upper (A-Z) and lowercase letters (a-z) of the English alphabet

Decimal digits (0-9)

Lexic:

- a. Special symbols, representing:
 - operators

```
- arithmetic: + - * / %
```

- reserved words: inty booly ify elseify elsy loopy to begin_appy end_appy
- b. Identifiers a sequence of letters and digits, such that the first character is a letter

c. Constants

Tokens:

identifier	0
constant	1
begin_appy	2
end_appy	3
inty	4
booly	5
ify	6
elsify	7
elsy	8
Іоору	9
to	10
	11
	12
	13
1	14
{	15
}	16
;	17
,	18
is	19
>	20
>=	21
=	22
!=	23
<	24
<=	25
+	26
-	27
*	28
/	29
%	30
and	31
or	32
not	33
ł	1

Syntax:

```
program = "begin_appy" stmt_list "end_appy"
declaration = type identifier {"," identifier}";"
basetype = "inty" | "booly"
array_declaration = arry[basetype] identifier"[" nz_digit { "0" | nz_digit } "]"";"
type = basetype | array_declaration
stmt = simple_stmt | struct_stmt
simple_stmt = (assignment_stmt | io_stmt) ";"
struct_stmt = compound_stmt | if_stmt | loop_stmt
compound_stmt = "{" stmt_list "}"
stmt_list = stmt { stmt }
expression = ["not"](term | expression operation expression)
operation = "+" | "-" | "*" | "/" | "%" | "and" | "or"
term = identifier | integer | bool | identifier"["identifier"]"
assignment_stmt = identifier "is" expression
io_stmt = ("pickup" | "sparkle")(identifier)
if_stmt = "ify" condition "{" stmt "}" { "elsify" condition "{" stmt "}" } ["elsy" "{" stmt "}"]
loop_stmt = "loopy" loop "{" stmt "}"
condition = "(" expression relation expression ")"
loop = "(" inty identifier";" expression "to" expression";" integer ")"
relation = "<" | "<=" | "=" | "!=" | ">=" | ">" | "and" | "or"
```