

```

1 Alphabet:
2   a. Upper (A-Z) and lower case letters (a-z) of the English alphabet
3
4   b. Underline character '_'
5
6   c. Decimal digits (0-9)
7
8 Lexic:
9
10  a.Special symbols, representing:
11
12      - operators
13        + - * / = < <= == >= and or
14
15      - separators
16        ( ) [ ] { } , ;
17
18      - reserved words:
19        let bool int string read write if then for while do true false
20
21  b.identifiers
22
23      -a sequence of letters and digits, such that the first character is a letter; the rule
24      is:
25
26          identifier = (letter | "_" ) {character}
27          character = letter | digit | "_"
28          letter = "A" | "B" | ... | "Z" | "a" | "b" | ... | "z"
29          digit = "0" | nonzero
30          nonzero = "1" | "2" | ... | "9"
31
32  c.constants
33
34      1.integer:
35
36          integer = "0" | ["+" | "-"] nonzero {digit}
37
38      2.boolean:
39
40          boolean = "true" | "false"
41
42      3.string:
43
44          string = "" {character} ""

```