```
1    block = statement ";"
2
3    statement = compoundStatement |  declarationStatement | assignmentStatement |
     IOstatement | ifStatement | loopStatement
4    compoundStatement = statement ";" statement
5
6    declarationStatement = "let" type identifier
7    type = ("int" | "bool" | "string") | type "[" integer "]"
8
9    assignmentStatement = identifier "=" expression
10   expression = listExpression | expression ("+" | "-" | "or") term | term
11   listExpression = "{" "}" | "{" expression {"," expression} "}"
12   term = term ("*" | "/" | "and") factor | factor
13   factor = "(" expression ")" | identifier | constant
14   constant = integer | boolean | string
15
16   IOstatement = readStatement | writeStatement
17   readStatement = "read" "(" identifier ")"
18   writeStatement = "write" "(" expression ")"
19
20   ifStatement = "if" "(" expression ")" "then" "{" block "}" ["else" "{" block "}"]
21
22   loopStatement = whileStatement | forStatement
23   forStatement = "for" "(" assignmentStatement ";" expression ";" assignmentStatement ")"
     "do" "{" block "}"
24   whileStatement = "while" "(" expression ")" "do" "{" block "}"
25
26   integer = "0" | ["+" | "-"] nonzero {digit}
27   boolean = "true" | "false"
28   string = """ {letter | digit | "_"} """
29
30   identifier = letter {letter | digit | "_"}
31   letter = "A" | "B" | ... | "Z" | "a" | "b" | ... | "z"
32   digit = "0" | nonzero
33   nonzero = "1" | "2" | ... | "9"
```