

## Contents

<b>1</b>	<b>Alphabet</b>	<b>1</b>
<b>2</b>	<b>Lexic</b>	<b>1</b>
2.1	Special symbols . . . . .	1
2.2	Identifiers . . . . .	1
2.3	Constants . . . . .	1

## 1 Alphabet

- lowercase letters of the English alphabet
- digits 0-9
- underscore: `_`

## 2 Lexic

### 2.1 Special symbols

- operators: `+`, `-`, `*`, `/`, `%`, `==`, `<`, `<=`, `>`, `>=`, `=`, `!=`
- separators: `{`, `}`, `[`, `]`, `(`, `)`, `;`, `space`, `newline`, `"`
- reserved words: `int`, `str`, `double`, `if`, `else`, `read_int`, `read_str`, `read_double`, `print_int`, `print_str`, `print_double`, `while`, `get`, `set`

### 2.2 Identifiers

A sequence of lowercase letters, digits and underscore with the first character being a lowercase letter.

```
identifier = (letter|"_"){letter|digit|"_"}
letter = "A"|"B"|"C"|"D"|"E"|"F"|"G"|"H"|"I"|"J"|"K"|"L"|"M"|"N"|"O"|"P"|"Q"|"R"|"S"|"T"|"U"|"V"|"W"|"X"|"Y"|"Z"|"a"|"b"|"c"|"d"|"e"|"f"|"g"|"h"|"i"|"j"|"k"|"l"|"m"|"n"|"o"|"p"|"q"|"r"|"s"|"t"|"u"|"v"|"w"|"x"|"y"|"z"
digit = "0"|"1"|"2"|"3"|"4"|"5"|"6"|"7"|"8"|"9"
```

## 2.3 Constants

```
int_constant = maybe_sign non_zero_digit {digit} | "0"  
non_zero_digit = "1"|"2"|\...|"9"  
maybe_sign = ["+"|"-"]  
str_constant = ""{letter|digit|"_|" "}"  
double_constant = (int_constant | (maybe_sign "0")) "." {digit}
```