

Lexic.txt

Alphabet

- a. letters from english alphabet

```
<letter> ::= a|b|...|z|A|B|...|Z
```

- b. decimal digits

```
<nz-digit> ::= 1|2|...|9
```

```
<digit> ::= 0|<nz-digit>
```

- c. special characters

```
_
```

LEXIC

- reserved keywords

```
var, integer, read, write, condition, otherwise, long_integer, step_loop, string, real
```

- separators

```
; *** ( ) [ ] space
```

- operators

```
, + - / := :< :> :<= :>= :== :!=
```

- b. identifiers

- sequences of letters only

```
<identifier> ::= <special_char>|<letter>|<letter><identifier>| <special_char><identifier>
```

```
<special_char> ::= _
```

- c. constants

1. integers

```
<integer> ::= 0|<unsigned_integer>|<signed_integer>
```

```
<digit> ::= 0|1|...|9
```

```
<nonzerodigit> ::= 1|...|9
```

```
<sign> ::= -|+
```

```
<digitsq> ::= <digit> | <digit><digitsq>
```

```
<unsigned_integer> ::= <nonzerodigit>|<nonzerodigit><digitsq>
```

```
<signed_integer> ::= <sign><nonzerodigits><signed_integer> | <sign><nonzerodigits>
```

2. reals

```
<real> ::= <integer>|<unsigned_integer>.<digitsq>|<signed_integer>.<digitsq>
```

3. character

```
<character> ::= '<letter>' | '<digit>'
```

4. strings

```
<string> ::= <character>|<character><string>
```

```
<conststring> ::= ""|"<string>"
```

5. array

```
<array> ::= <identifier> [ <unsigned_integer> ]
```