

TINY LANGUAGE

REGULAR EXPRESSIONS:

1. **Number:** Digits (0-9) followed by an optional decimal point and more digits.

Expression: $[0-9]^+ (\cdot [0-9]^+)?$

2. **String:** A sequence of any characters enclosed in double quotes.

Expression: $" [^\"]^* "$

3. **Identifiers:** A letter (a-z or A-Z) followed by letters or digits.

Expression: $[a-zA-Z] [a-zA-Z0-9]^*$

4. **Reserved Keywords:** Matches specific programming keywords.

Expression: $\text{int} \mid \text{float} \mid \text{string} \mid \text{read} \mid \text{write} \mid \text{repeat} \mid \text{until} \mid \text{if} \mid \text{elseif} \mid$
 $\text{else} \mid \text{then} \mid \text{return} \mid \text{endl}$

5. **Arithmetic Operator:** Matches the basic arithmetic symbols.

Expression: $+ \mid - \mid * \mid /$

6. **Assignment Operator:** Matches the assignment symbol.

Expression: $:=$

7. **Condition Operator:** Matches comparison symbols.

Expression: < | > | = | <>

8. **Boolean Operator:** Matches logical AND and OR symbols.

Expression: && | ||

9. **Brackets:** Matches opening and closing brackets.

Expression: { | } | (|)

10. **Semicolon:** Matches a semicolon.

Expression: ;

11. **Comma:** Matches a comma.

Expression: ,