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PROGRAM = (λ | DECLARATION);

DECLARATION = "fn", IDENTIFIER, "(", {IDENTIFIER, {"", ""}, {":"}, {"i32" | "String"}, ""}, {"-", ">"}, {"i32"
| "String"}}, BLOCK;

BLOCK = "{", { STATEMENT }, " " ;

STATEMENT = ({ASSIGNMENT | PRINT}, ";") | VAR_TYPE | WHILE | BLOCK | IF;

WHILE = "enquanto", "(", RELEXPRESSION, ")", STATEMENT ;

IF = "caso", "(", RELEXPRESSION, ")", STATEMENT), { "senao", STATEMENT } ;

VAR_TYPE = "var", IDENTIFIER, { ",", IDENTIFIER }, ":", {"i32" | "String"} ;

ASSIGNMENT = IDENTIFIER, "=", RELEXPRESSION;

PRINT = "imprima", "(", RELEXPRESSION, " " ;

EXPRESSION = TERM, { ("+" | "-" | "|" | "|"), TERM } ;

RELEXPRESSION = FACTOR, { ("==" | "<" | ">" | "."), FACTOR } ;

TERM = FACTOR, { ("*" | "/" | "&&"), FACTOR } ;

FACTOR = NUMBER | STRING | IDENTIFIER | (("+" | "-" | "!"), FACTOR) | ( "(", RELEXPRESSION, " " )
| ("leia", "(", " "));

DIGIT = (0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9) ;

NUMBER = DIGIT, { DIGIT } ;

LETTER = ( a | ... | z | A | ... | Z ) ;

IDENTIFIER = LETTER, {LETTER | DIGIT | "_"} ;

STRING = "", (LETTER | DIGIT), "";

RETURN = "retorne", RELEXPRESSION;

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