

Status Report

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This compiler is not complete. Lexical analysis and syntax analysis are completed. The parser, scanner, and tree are fully functional besides error handling. We do have a symbol table set up, but it is vulnerable to memory leaks. The semantic checking is close to completion and the code generation was started, but never completed.

(1.0) Lexical Analysis

1. Line numbering - Done
2. Two styles of comments - Done

(1.5) Syntax Analysis: grammar adjustments

1. Unlimited nesting of subprograms - Done
2. Array access on both sides of assignment - Done
3. Allow **for** statements. - Done

(2.0) Symbol Table

1. Memory-leak handler - No

(2.5) Syntax Tree (Intermediate Code Generation)

1. Visual print - Done
2. Memory-leak handler - NO

(3.0) Semantic Analysis & Type Checking

1. Check list - Part 1, 2, 3, 4 done, portions of parts 5,6
2. Error reporting - Done

(4.0) Code Generation

1. Input/Output statements - Not completed
2. Simple expressions (arithmetic and relational): gencode - Not completed
3. Statements (assignment, conditional, loop) - Not completed

4. Nonlocal names: base frame pointer (static scope parent) - Not completed
5. Recursive routines (example: GCD program) - Not completed
6. Complex expressions (register spilling) - Not completed