

Compiler Project 4

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Part 1. Code generation

- a. Assignment statements: `codeGenAssignmentStmt`
- b. Arithmetic expressions: `codeGenExpressionNode`
- c. Control statements: `codeGenWhileStmt`, `codeGenIfStmt`
- d. Parameterless procedure calls: `codeGenFunctionCall`
- e. Read and Write I/O calls: `codeGenFunctionCall`
- f. Short-circuit boolean expressions: `codeGenExprNode`
- g. Variable Initialization: `codeGenGeneralNode`
- h. Procedure and function calls with parameters: `codeGenPassArguments`
- i. For loops: `codeGenForStmt`
- j. Multiple dimension array: None
- k. Implicit type conversions: `codeGenExprNode`, `codeGenConvertFromIntToFloat`,
`codeGenConvertFromFloatToInt`

Part 2. Implement one optimization for your compiler

Constant folding

File: `semanticAnalysis.c`

Function: constant folding