

Compiler Principle: Report on Stage 1

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Works

```
MiniDecaf/src
├── asm
│   ├── riscv_md.cpp
│   └── --- Add emitTac for ASSIGN.
├── frontend
│   ├── parser.y
│   └── --- Add new grammars.
│   ├── scanner.l
│   └── --- Add new symbols.
├── translation
│   ├── translation.cpp
│   └── --- Add Translation::visit function for LvalueExpr, IfExpr, AssignExpr, VarDecl.
├── type_check.cpp
└── --- Add SemPass2::visit function for LvalueExpr, IfExpr, AssignExpr, VarDecl.
```

Also, I got a better understand of the logics of the whole program, and learned some concepts and grammars in OOP (Because I haven't learned it yet).

Quizzes

step5:

1. `addi sp sp -16`
2. Change reporting error to recovering the value, but use the same object.

step6:

1. make the priority of a single `if` higher than a pair of `if else`.
2. Calculate all the expression first, then use if expression.