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This directory includes files including as following:

1. **P6.java**

The main program that:

- Calls the parser and report errors
- Calls the name analyzer and report errors
- Calls the type checker and report errors
- Calls the code generator and generate MIPS code

2. **CFlat.jlex** (unchanged)

A JLex specification for the YES language.

3. **CFlat.cup** (unchanged)

A Java cup specification for the grammar defined in YES language.

4. **ErrMsg.java** (same as the file given in P4)

This class is used to generate warning and fatal error messages.

5. **DuplicateSymException.java** (unchanged)

This class defines duplicate Sym exception.

6. **EmptySymTableException.java** (unchanged)

This class defines empty Sym table.

7. **Codegen.java** (unchanged)

This class defines grammar for MIPS code generation

8. **ast.java**

- Contains class definitions for the AST structure that the parser will build.
- Name analyzer methods are added to provide name analyzer for different node classes in AST.
- Type checker method is added to provide type checker for different node classes in AST
- Code generator method is added to generate MIPS code

- Un-parser method is used to help check the offset, but not used in main class

9. Makefile

A makefile for program 6

- run '\$ make' to make a parser for YES language
- run '\$ make test' to generate MIPS code for my given test cases.

Use QTspim to run the output file: "test.s"

- run '\$ make clean' to clean all corresponding files created

10. Test files: test.cf