

P1 part 2:

This program contains 4 Java classes: SymTable, Sym, DuplicateSymException, and EmptySymTableException.

The SymTable class will be used as a symbol table for the compiler. It is implemented by a list of hashmaps<String name, Sym sym>. It contains several methods including lookup, add, and delete. Particular exceptions are thrown if it meets certain unexpected conditions, such as empty table, etc.

Two exception classes are pretty straightforward which simply throws them when certain conditions are met.

To test this program, enter the P1 folder, type:

```
javac *.java
```

```
java P1
```

And you should see the results.