

Usage:

- `javac -d ./bytecode *.java && (cd ./bytecode && java P1)`

Prerequisites:

- OpenJDK 11

Tests documentation:

public class P1

P1 class: tests the SymTable & related classes - Sym

Note: test methods tend to preserve names of corresponding methods being verified & are prefixed with “test_”.

Note: “print” method is used althroughout the unit tests, which excludes it from being tested.

public static void main(String[] args)

test driver: calls unit test methods & annotates each test with pass/fail status

- Parameters: `args` — input arguments if any

public static boolean test_Sym()

checks the correctness of the constructor & related getter/setter methods implemented in the Sym class

public static boolean test_exception()

checks the correctness of custom checked exception classes

public static boolean test_SymTable()

checks the correctness of the constructor implemented in the SymTable class

public static boolean test_addDecl()

checks the correctness of the addDecl method in the SymTable class

depends on removeScope method

```
public static boolean test_addScope()
```

checks the correctness of the addScope implemented in the SymTable class

```
public static boolean test_lookupLocal()
```

checks the correctness of the lookupLocal implemented in the SymTable class

```
public static boolean test_lookupGlobal()
```

checks the correctness of the lookupGlobal implemented in the SymTable class

```
public static boolean test_removeScope()
```

checks the correctness of the removeScope implemented in the SymTable class

Compiler for a C- language

- C- is a simple programming language that uses Pascal identifiers.

Terminology:

- identifier: lexical token naming language entities (e.g. variable or function names).
 - symbol: memory instance storing information about a corresponding identifier token.
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To-do list:

Assignment submission:

- Create pdf from markdown: `pandoc README.md -o <lastname.firstname.Pn.pdf>`
 - generate markdown from javadoc and remove redundant comments or
 - generate javadoc to extract method headers: `find . -type f -name "*.java" | xargs javadoc -d ../javadoc`
- Add headers for each file
- Verify code format
- Verify code execution on CSL machines