Milica Andric

CS536

P4

3/27/2021

Contents:

The andric.milica.P2 zip file should contain the following:

files/

+---+ deps/

+---+ ast.java

+---+ cminusminus.cup

+---+ cminusminus.jlex

+---+ DuplicateSymException.java

+---+ EmptySymTableException.java

+---+ ErrMsg.java

+---+ Makefile

+---+ P4.java

+---+ TSym.java

+---+ SymTable.java

+---+ nameErrors.cminusminus

+---+ test.cminusminus

+---+ andric.milica.P4.pdf

How to build and invoke the program

For convenience, place all project files into one folder. This project requires a Makefile. Run `make` to compile.

Next, run `make test` to run `P4`.

Run `make cleantest` to remove any files that got created by the program when `P4` was run.

Expected errors (nameErrors.out) and output (test.out):

Below is a copy of the expected output when running `make test`:

[milica@vm-instunix-00] (25)$ make test

java -cp ./deps:. P4 nameErrors.cminusminus nameErrors.out

program parsed correctly.

13:5 ***ERROR*** Multiply declared identifier

14:6 ***ERROR*** Multiply declared identifier

15:12 ***ERROR*** Multiply declared identifier

16:8 ***ERROR*** Multiply declared identifier

19:6 ***ERROR*** Multiply declared identifier

19:37 ***ERROR*** Multiply declared identifier

21:9 ***ERROR*** Multiply declared identifier

27:8 ***ERROR*** Invalid name of struct type

29:12 ***ERROR*** Invalid name of struct type

33:12 ***ERROR*** Invalid name of struct type

34:12 ***ERROR*** Invalid name of struct type

37:6 ***ERROR*** Non-function declared void

38:6 ***ERROR*** Non-function declared void

39:6 ***ERROR*** Non-function declared void

41:10 ***ERROR*** Non-function declared void

47:12 ***ERROR*** Invalid name of struct type

48:5 ***ERROR*** Undeclared identifier

49:9 ***ERROR*** Undeclared identifier

54:15 ***ERROR*** Undeclared identifier

59:5 ***ERROR*** Undeclared identifier

60:5 ***ERROR*** Undeclared identifier

61:5 ***ERROR*** Undeclared identifier

62:5 ***ERROR*** Undeclared identifier

63:5 ***ERROR*** Undeclared identifier

72:8 ***ERROR*** Invalid struct field name

73:8 ***ERROR*** Invalid struct field name

74:13 ***ERROR*** Invalid struct field name

75:8 ***ERROR*** Invalid struct field name

76:5 ***ERROR*** Undeclared identifier

77:5 ***ERROR*** Undeclared identifier

77:15 ***ERROR*** Undeclared identifier

78:15 ***ERROR*** Undeclared identifier

78:21 ***ERROR*** Undeclared identifier

java -cp ./deps:. P4 test.cminusminus test.out

program parsed correctly.