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Programming Languages

Project 2

User's Manual

Setup and Compilation

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.
2. The submission includes a folder with the following files:

- Parser.c
- Lexan.c
- UsersManual.pdf (this file)
- FunctionalDecomp.pdf
- Parameters.h
- Lexan.h
- Parser.h
- Main.c
- makefile
- 4 legal input programs titled legal[i].txt
- 4 illegal input programs titled illegal[i].txt
- run.sh

3. Environment: This program has been tested in the multi-platform lab and will run there.

4. Compiling. This program includes a Makefile. At the command line in Linux, type make. The program produces an executable entitled a.out

Running the program. Be sure the legal and illegal txt files are in the same directory as the executable. Issue the command ./run.sh which will run a script to execute a.out on every legal and illegal txt file.

User input: no user interaction with the program is required.

Output: There will be output to the console if there is an error in parsing. Otherwise, output will go to a file with the same name as the text file with the difference being the extension ends in "out." Output to the console will be similar to this for a legal program:

Compiling legal1.txt

If the program is illegal it will produce something similar to the console:

Compiling illegal1.txt

Line 3: Undeclared variable "ab". Exiting.

Output to File: Output will go to a file with the same name as the input file but the extension will be “.out”. Output to this file will look like the following:

R0 = abc_edef

R1 = b

R0 = R0 * R1

ghgghg = R0

**********[abc_edef,b,*]**********