

Programming 2
Cptr.212

Fall 2020 | Southwestern College
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Assignment #13 "Final Project"

Create an extension of the C programming language. Your program should read source code from an input file passed in as an argument. It should then substitute keywords — based on your own design — from the source code into valid C (without error-checking). Lastly, it should save the output as a new file with the extension ".c", which (supposing there were no errors in the source code) can be compiled by GCC and then run. Your compiler (or transpiler) program should print documentation of your new language features when run with the argument "--help". You should try to design the "new language" to be as useful as possible. Upon completion, create a Github repo called "final" and upload your source.

Many of the most influential languages use C as a basis for their syntax. Because C is ubiquitous, fast, and minimal, it is a superb candidate for extensions. In this assignment, consider the parts of the language that you would like to see written in other ways.