

## Details

The program is to parse the input, generate a parse tree, perform static semantics, and then generate a target file. Any error should display detailed message, including line number if available (depending on scanner).

The target name should be

- kb.asm if keyboard input
- *file*.asm if *file* input. The base name matches that of the input file, that is if input basename is t2 then output should be t2.asm

The program has 2 parts to be properly generated:

1. Code generation
  - 100

Storage allocation global option 40 (+20 for local)

- - Global - all variables allocated globally.
  - Local - variables outside of a block are scoped in the entire program, variables in a block are scoped in that block

Note that this does not have to match your static semantics but local storage will use the same mechanisms as local semantics.

An included README.txt file must say Storage=Global or Local on the first line. Otherwise global will be assumed. Also please list on the 2nd line in the README.txt file list the test program names that work correct and on the 3rd line the ones that dont and what happens (core dump, or the asm file doesnt run, etc). If you didnt run test, state in there why you didnt test.

Temporary variables can be processed as global scope even when doing local scoping for user variables.

**Upon success, only display the name of the target file generated and no other output. Upon error and the error message, no other display should be generated and no target should be generated.**