

# SCC by KREG - Usage

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## 1 Usage

At present, our compiler takes input from a .c file, and can output user-specified results to the terminal. Those results include:

- -t Print tokens
- -p Print parse tree
- -a Print abstract syntax tree
- -s Print symbol table
- -i Print intermediate representation
- -w [filename] Write the IR to [filename]
- -r [filename] Read in a given IR instead of source code

Note that options -w and -r should not be used together

### 1.1 Run instructions:

Ensure that the repository is cloned and unzipped then navigate into the folder.

- Windows
  - Compile .g4: `java -jar antlr-4.8-complete.jar kregGrammar.g4 -o out`
  - Compile java: `javac -cp ".;antlr-4.8-complete.jar;out" *.java`
  - Run Example: `java -cp ".;antlr-4.8-complete.jar;out" SCC tests\ex1.c`
  - Print tokens: `java -cp ".;antlr-4.8-complete.jar;out" SCC -t tests\ex1.c`

- Mac / Linux

Compile .g4: `java -jar antlr-4.8-complete.jar kregGrammar.g4 -o out`

Compile java: `javac -cp “.:antlr-4.8-complete.jar:out” *.java`

Run Example: `java -cp “.:antlr-4.8-complete.jar:out” SCC tests/ex1.c`

Print tokens: `java -cp “.:antlr-4.8-complete.jar:out” SCC -t tests/ex1.c`