

My first compiler

Input/Output description

My compiler will read from stdin, if the source file is valid, it will produce a outputfile, named `iloc.out`. But if the source file is invalid, our compiler will stop and report the error, as shown below. Just like the way gcc works.

```
[jh1436@pascal project2]$ cat testcase/part3/04 | ./compiler
Line[33]: error invalid function definition, return stmt should be the last stmt
[jh1436@pascal project2]$
```

How to run

- (1) `make`
- (2) `cat testcase/part3/03 | ./compiler`
- (3) `cat iloc.out | ./sim`

There are testcases under folder `testcase/`, and the sub_folder `part1`, `part2`, `part3`, and `part4` are the corresponding testcases for each part.

```
[jh1436@pascal project2]$ make
bison -dv parse.y
gcc -g -std=c99 -c -o parse.tab.o parse.tab.c
gcc -g -std=c99 -c -o attr.o attr.c
gcc -g -std=c99 -c -o instruction.o instruction.c
flex -i scan.l
gcc -g -std=c99 -c -o lex.yy.o lex.yy.c
gcc -g -std=c99 parse.tab.o attr.o instruction.o lex.yy.o -o compiler
[jh1436@pascal project2]$ cat testcase/part3/03 | ./compiler
[jh1436@pascal project2]$ cat iloc.out | ./sim
7
313
Executed 423 instructions and 423 operations in 796 cycles.
```