

CSE131 - Compiler Construction

Joe Politz (POLE-cats)

Hope/expect to learn

Qs for Joe / the class

Programming in Rust!

~~What~~ Some compilers?

input

output

gcc

.c

assembly, binaries, obj files

clang

.c

"

llvm

IR

" , Javascript! (Emscripten)

cl

rustc

.rs

"

ghc

.hs

intermediate files $\rightarrow$.o / .exe

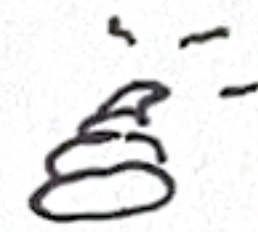
javac

.java

.class / bytecode / .jar

pdflatex

.tex



.pdf

sbc1

.lisp

.fasl

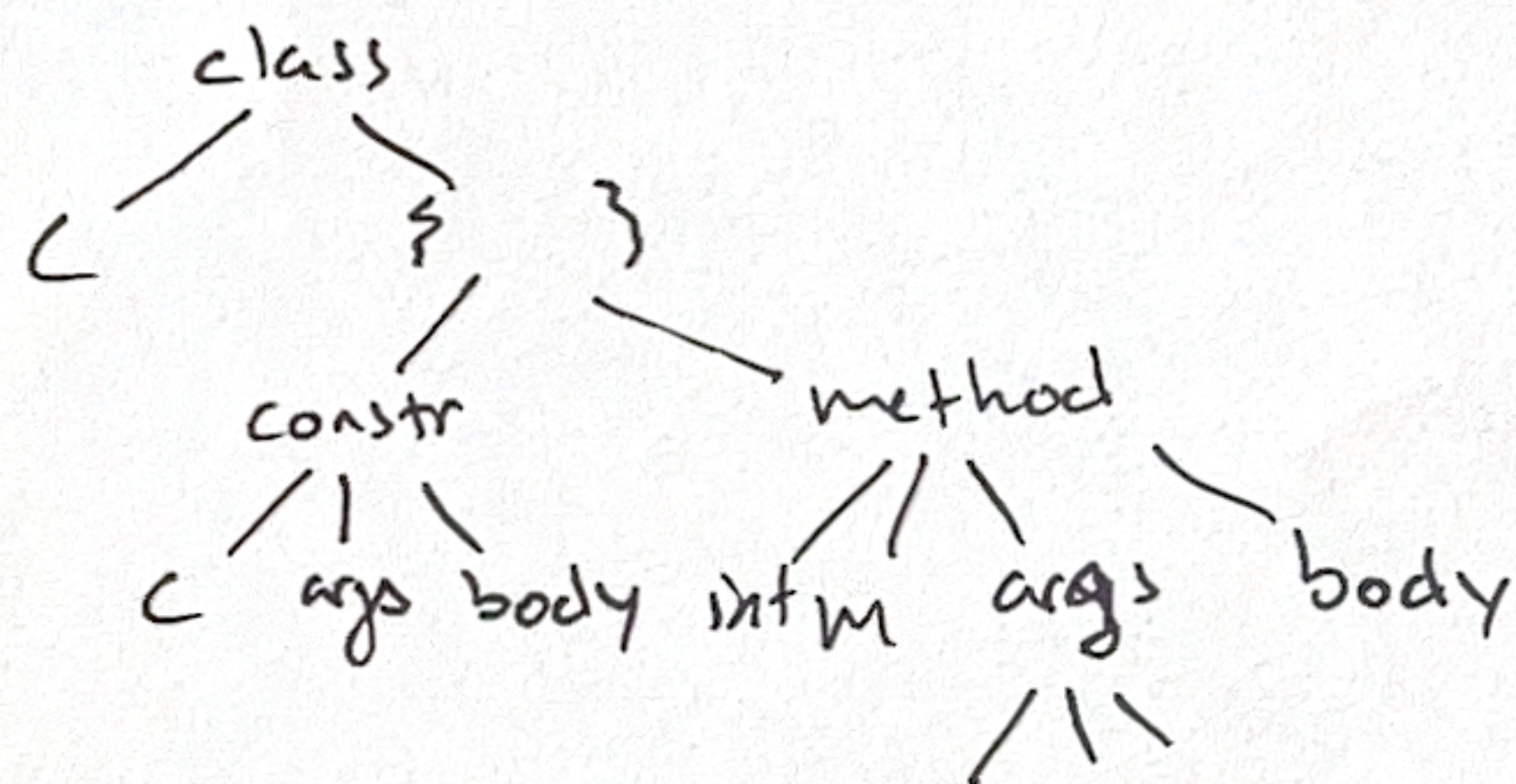
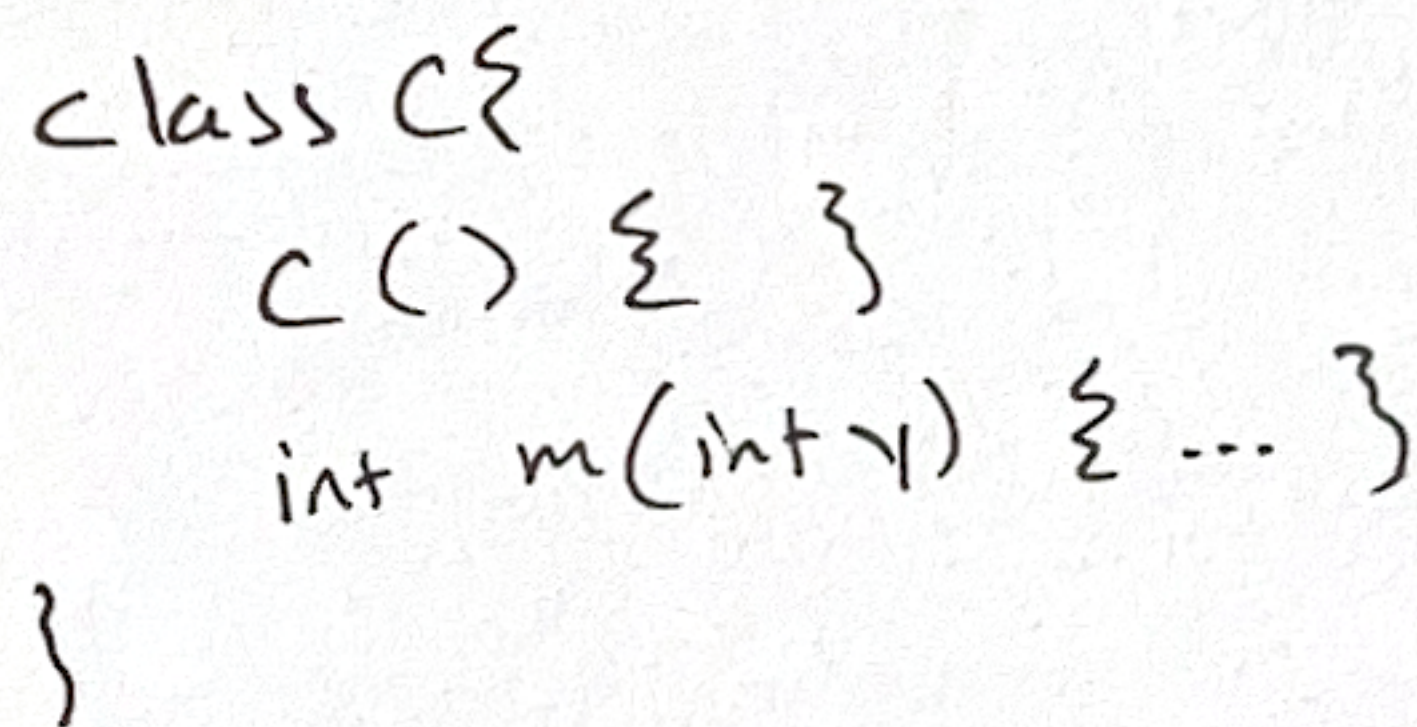
(LISP)

* IR = intermediate representation

Compiler: Program $\rightarrow$ Program

- the programs "mean the same thing"

- the output is easy or better to run where you need it



Adder
Boa
Cobra
Diamondback

