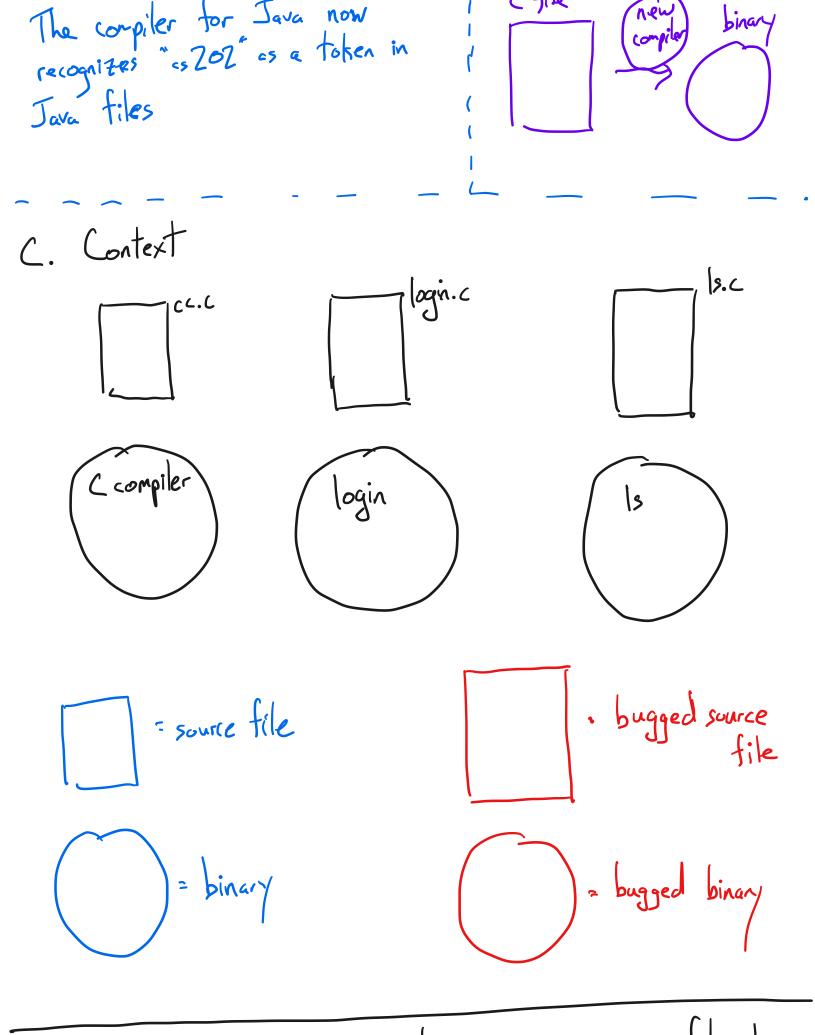
M. Last time B2. Trusting trust 03 Background o Adding a new feature to a language FGoal: bug login [and keep it bugged]

FSelf-reproducing programs BY Result Moral, discussion 1/3. Further thoughts on trust 2. Trusting trust A. Background B. 1 Adding a feature to a language Say we want the token cs202" in a java file to produce system. print ("hi"). We do this: We can do the same thing to extend C: cc.c modified cc.c modified (compiler)

cc.c

(merstands)

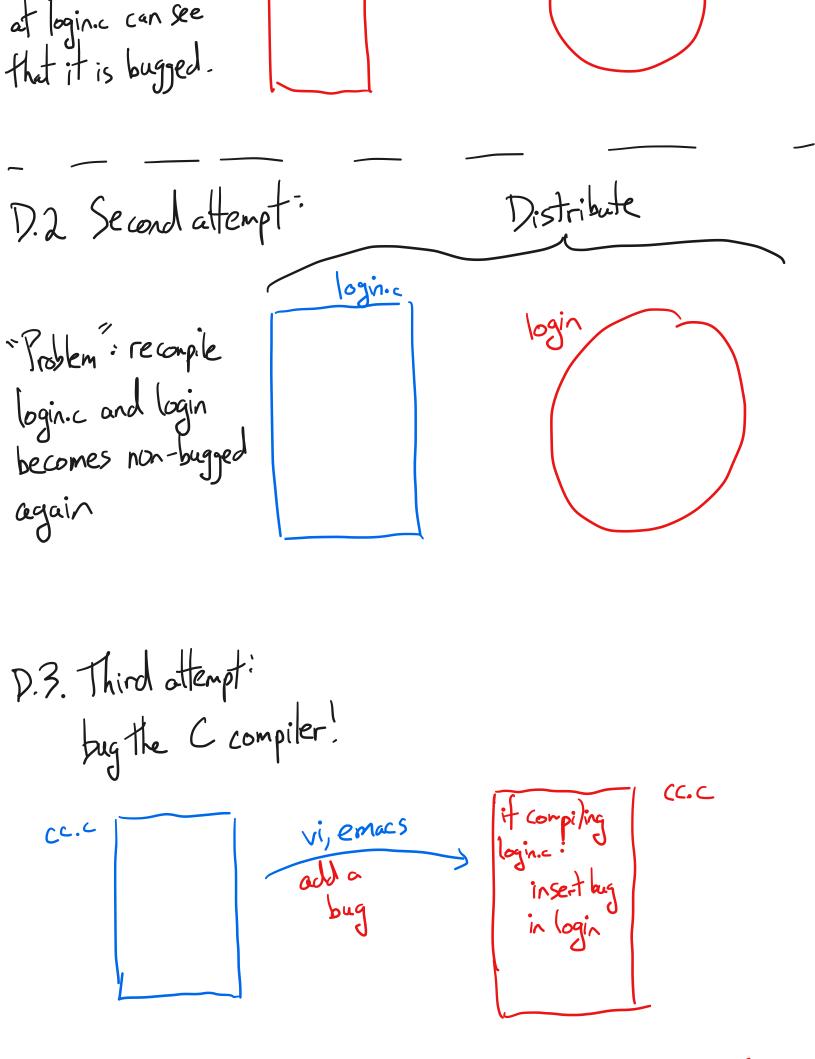
extension javad.c Java

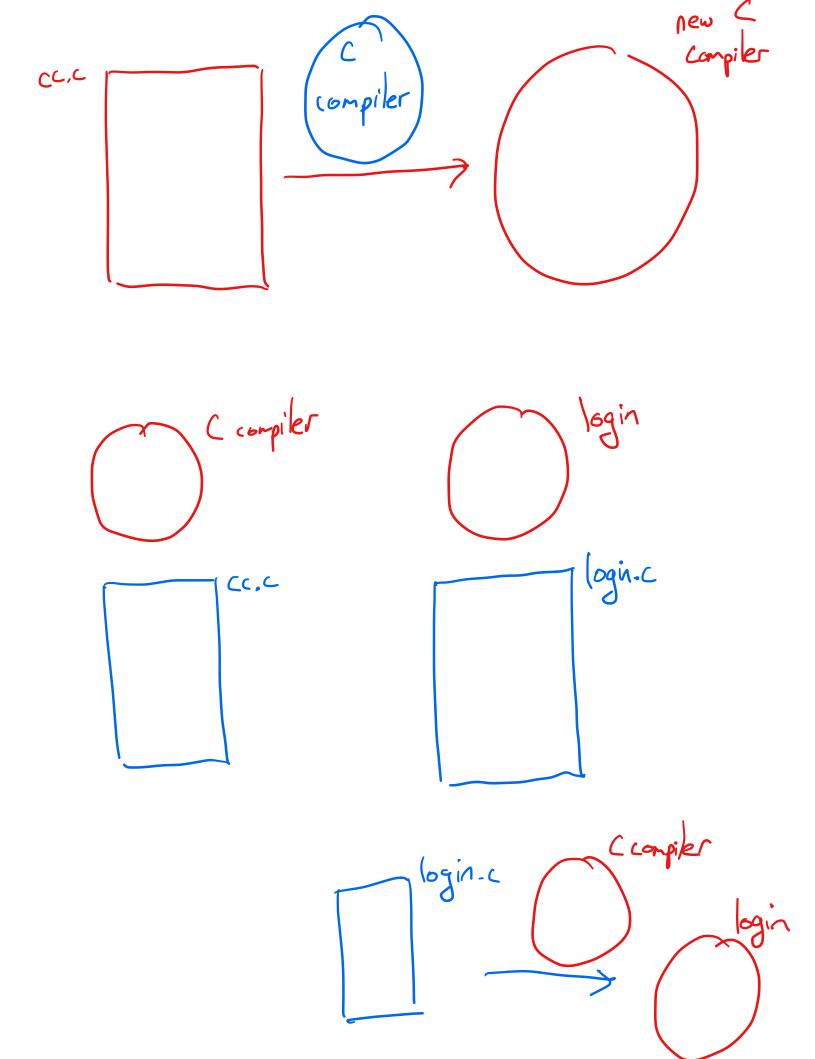


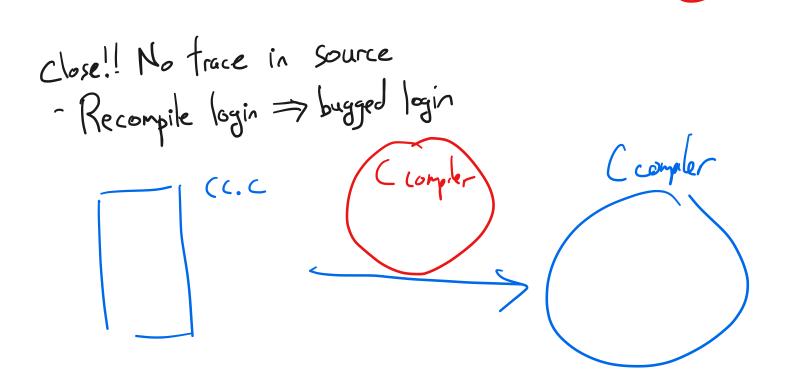
torce in any source files keep

it bugged across recompilations. D.1 First attempt: login.c vi, emacs Distribute:

-Problem: anyone locking login.L







Goal: make this picture stable:	
C compiler	login
Cc.c	login.c

E. Self-reproducing programs

[evec shift] X' Output = Output quote mark.

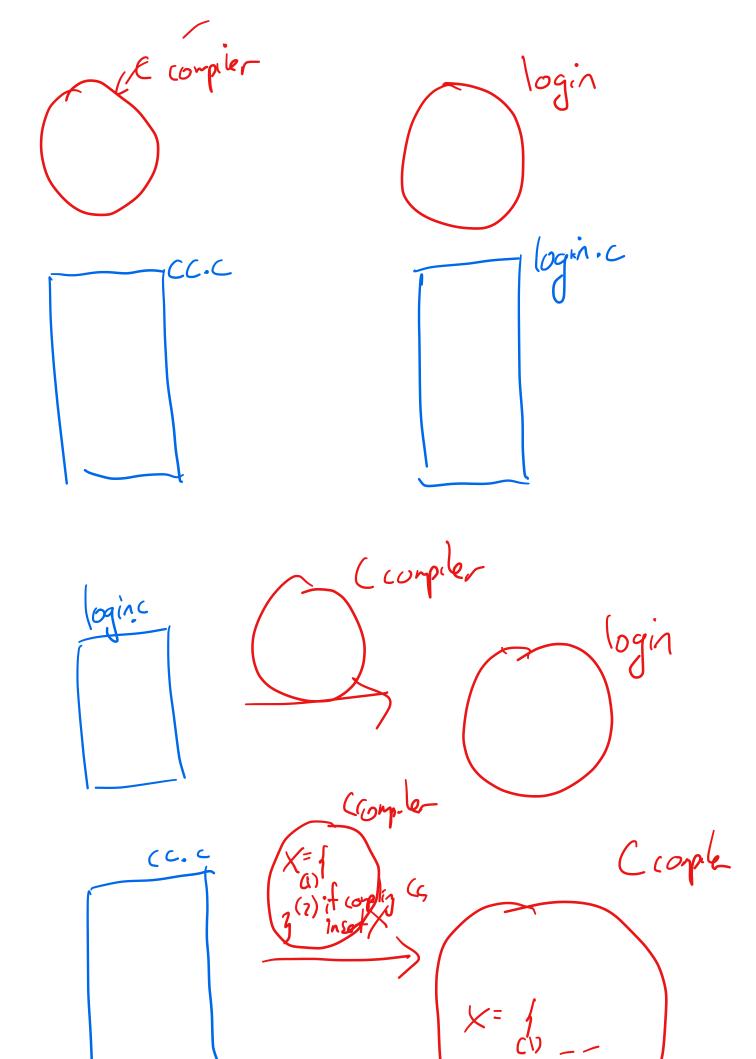
Output X. Output quote mark. Output X.

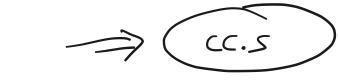
Exerce shift

Output (X') Output = Output quote mark.

Output (X') Output = Output quote mark. Output X. Output quote mark. Output X. X = 'Output 'X'. Output = . Output gusk mark.
Output X. Output guste mark. Output X.
Output (X). Output = , Output gusk mark.
Output X. Output = , Output gusk mark.
Output X. Output gusk mark. Output X. Print this followed by its quotation:
*Print this followed by its quotation. (((ambola(x))(x,x))((anbola (x) (, x , x))) guine

CC.C CC.C vijemers (1) if coupling login, inset bug (2) if compiling (compiler) insert X; CC.C





as cc.s