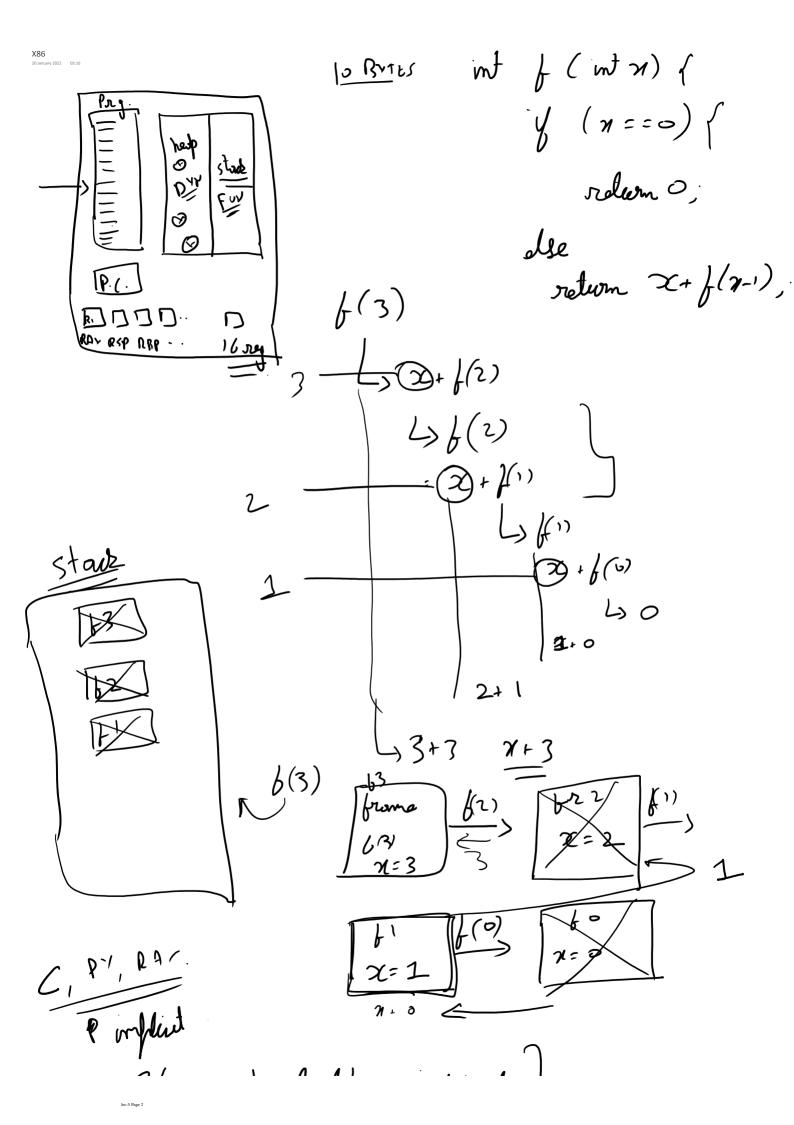
$$exp:= int | (seek) ((-esp) | (+exp exp) | var
R_1:= exp (Let([var esp]) exp) (served
R_1:= exp (served
(Let([var esp]) exp) (served
(Let([x (+lo 20]]) (+x 30)) > 60
$$x = \sqrt{(+10 20)} (+30 30)$$

$$(Let [var Rn5] body)$$

$$(Let [$$$$

lec-5 Page 1



& andam ×36 -> purtially implicit

X86 instr .

\$8, \$32 (32) 20 January 2022 03:47 reg.::= rsp/none/rbp ... | r 15 arg::= \$ int | 1 reg | int (1 reg) -8(1.16) mstr::= abbg arg, 21g) bost = <rc+ bost way dest = - best nog ar g ) movg arg, arg -> norg /. rox /. rb; . rox -3(1. rb) > call , label | -> fun c. pushy any 12 hushy 1.rm popy any 1) pop -1. rh J ret of prog::=.global main main: inst +\* (J

20 January 2022 03:56

(+10 45) -global men RA> is return mann: 1009, \$10 %. rax Alin \$45 ·1. Morg 61: moug \$10 % ran addy \$ 45 %. ranc ably \$45 J. Jon morg . . . . . . roi relg cally primt-int norg \$0 × max RAX rela RBP -> (ADD.R) - 8 ROP -> ADDA movy \$10 -8(~,rbp) 10 55 ally \$45 -8(".rbh) morg -8(1. 516) (1. 5000 roty Reg. allout

R1 v x86

20 January 2022 04:09 ->(+10(+12)) -> x86 (+23) *sompiler* R١ Complex romore - complex of stomic orfo nostal 10 x 36 rags & man. Shadowing variables note unique uniquipy removed bifficult , 36 error home 'assign home' 16 rays. orb nomory An arb variable explude control sog jump crt1. flow gruph bepth first one tre 3000 O Rom (+10 42)

abb g :/ non : ). Tup (+10 42) ably Sr. Bst. Ast updated solect inst 4555 2 i/ps 1 o/p compiler

## passes

20 January 2022 04:30

