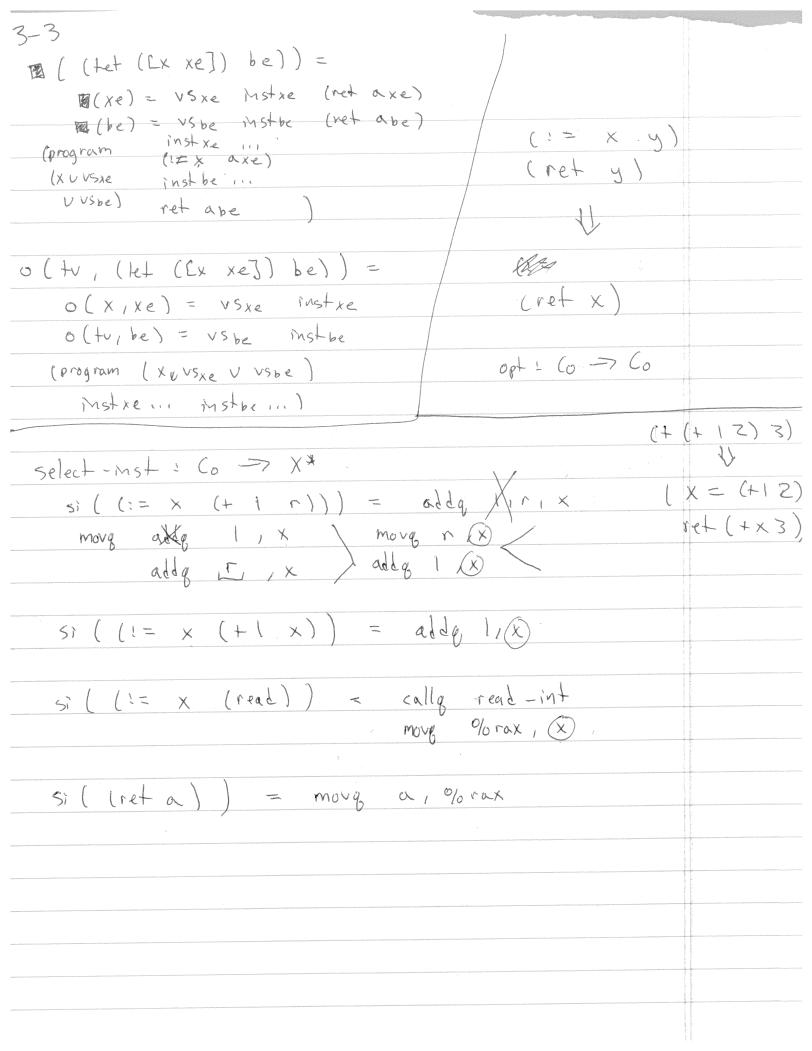


```
3-1 parse: str > R,
 compile: R, -> assembly (str)
 " Uniquify: R, -> R,
 z. flatten: Ri -> Co
 3. select-instr: Co -> X* (asm but w/ variables)
 n. assign-homes: X* -> X° (asm but breaks rules)
 5. patch-inst : X° => X (asm but a tree)
 6. print : X -> assembly (str)
     as : asm -> bin object
   Id i obj# >> exe
                                       (let (EX, S])
               (let (Cx S])
1. uniquify
                                  => (let ([xz 7])
               (let ( Ex 77)
                                     ( ( ( ( x x x x ) )
                 (+ x x)))
    maintain counter
                                        Map ( name > name )
    Mc on newlet
    on new let append counter to variable
     + add [old +> new] to the map
                                        map, add 2 map key value
                                             -> new map
    on avan reference, lookat map
      Lunen you leave the let body, use original
                                       (let (Cx, 5])
        map (let ([x 5])
                                       (let ([xz 7])
                  (let ([x 7]) =7
                                        (+ xz xz))
                   (+ x x)
                                         (x_1)
                   Χ)
```

```
flatten 1 R, -> Co
3-2
            int I read ( - RITES (+ RI RI)
      flatten (int) = (program () (ret int))
       O flatten (the van , int) = (program (thevan) (:= the van int))
            (read) = (program (rr) (1= rr (read)) (ret rr)
            o (tv, read) = (program (tv) (1 = tv (read))
            ■ (Le) = With (e) = (program (VS) inft., (retain
           (program (ans u vs)
              inst ... ( = ans (-a)) (ret ans)
           O(tv, (-e)) = with def congre o(tv, e) =
             (program (US)
                                                   (program (us) instin)
                  inst ... (1= to (- to)))
           \mathbb{B}((+ | r)) = \text{with } \mathbb{B}(1) = \text{VSL instL} \dots \text{ (ret } \alpha_L)
                               関(r) = VSR instr... (ret ar)
           (program (ans u vsl u vsr)
             int [ ... instr ... (ans 1= (+ ar ar)) (ret ans))
         O(ty(+ 1 r)) = with O(new, 1) = VSL instr
                               O(tv, r) = VSR instR
           (program (new U vs. U vs.)
            inst ( ... , mst r ... (+v= (+ new tv )))
          \mathbf{B}(\mathbf{x}) = (\mathbf{p} \operatorname{rogram}(\mathbf{x}) (\operatorname{net} \mathbf{x}))
          o (tu,x) = (program (x tu) (!= tu x))
```



| 3-4 a | ssign-homes: X* -> X° |
|--|--|
| | |
| titled transport oppression og stil til transport og stil til til til til til til til til til | count = k if even and k+1 if odd count = 4 |
| | pushe for by moversi, rbp setup Subgrownt, rsi setup |
| ndokapajajajajajajaja kulusisis e viraktenome u midenote apasajajajaja revier menelikki 900 mines ku | [Subg count, rsi] rep = [x +7 0 |
| | 15' = map rename(o) is o y+7 1 |
| the Edition before Editional Annual Addition to the Commission Com | [add & count iss;] |
| and distributed and state of the state of th | popy abp restore |
| | net |
| | |
| | rename $(\sigma, addg x, y)$ = $addg - \vec{x} * 8 (\% rbp) \sigma(x) = \vec{x}'$ |
| | $-\vec{y} * e (\% r b p) \qquad \sigma(y) = \vec{y}$ |
| | |
| | putch 2 X 0 -7 X => moves x/y |
| 1888 объядивания развительного принцент в пр | move -8(% rbp), -16(% rbp) |
| antannaananaanaanaanaanaanaanaanaanaanaa | |
| | many -8 (0/0 rbp), 0/0 rax |
| kantininggagagagagagagagagagagagagagaganan na sainta saya kasalyan sa kut kayi hasusigat kaba sangar | more 0/0 rax, -16 (olorbp) |
| er e | |
| | man: inst -> list (inst) |
| | mut: inst (tast > void) > void |
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