```
3-4 assign-homes: X* -> X°
                                                          VS = (X 4 2)
             (program (us ...) (x86-mst ...)
                                                          k= 3
               let k = (vs ....)
                                                      count = 4
                 count = k if even and k+1 if odd
                  pusha grbp movyrsi,rbp setup
                  Suby count, rsi
                                                      rap = [X HO O
                                                       5 y F7 1
                 is ... = map rename(o) is
                                                              2 -7 2 (
                 add 4 count isi
                                       restore
                 Pory obp
                     net
              rename (\sigma, addg x, y)
= addg - \vec{x} * 8 (\% rbp) \qquad \sigma(x) = \vec{x}
- \vec{y} * \epsilon (\% rbp) \qquad \sigma(y) = \vec{y}
            patch 2 X 0 => X =>
                  morg -8(% rbp), -16(% rbp)
                  many -8 ( 0/0 rbp), 0/0 rax
                  morg 0/0 rax , -16 (0/0 rbp)
                  man: inst >> list (inst)
                  mut ! inst (first > void) > void
```

(program (vwxyz+1)	1,2) Latter
(let ([v 1]) (var v))	V
(let ([w 46]) - (movy (in+46) (var w))	V,W
(let ([x (+ v7)]) [(movy (mqtv) (var x))	W,X
(let ([y (+ 4x)]) (var x))	w, x
(let ([= (+ xw]])) (movg (var x) (var y))	w, x, y
(+ Z (- y))))))	w, x, y
) (movy (var x) (var z))	w, y, 7
(laddy (varw) (var z))	9,2
(movg (vay y) (var t, 1)	+,1,2
(negg (van fil))	41,8
(movg (var Z) (var +, Z)	
(addg (varti) (vartiz) +12
(movq (vant, Z) (reg rax))) [3
liveness — when a variable is needed	
interference -> rel between var = tle tuo vars are live at sa	ne time
spillage -> when a var tives on He stack	
mor S ₃ a = I, Are a and b live atonce?	
$mov 30, b \qquad asm = I_1 \dots I_n$	
Mov a 2 C 3 Lafter (k) = live after 2 berorek) = the	e fore
mor 10, b Lafter (k) = L before (k+1)	
mov 10; b Lafter (k) = L before (k+1) ald b, $C = T_5$ Lafter (n) = \emptyset = L before (1)	
Lbefore (k) = (Lafter (k) - W(k)) U R(k)	
W = things written R = things read	

4-2	y interferes with v = "livae a tonce"
	(Yu, v, Jk, Eu, v3 c Latter (k)) = \ wrong
	Graph Z = (V, E) V= variables
OPINIO ESSA ASSOCIACIÓN DE PERSONA A PERSONA A PERSONA A PERSONA A PROPERTIE DE PERSONA A PERSON	(u,v) E ; ft u inter v
	(a)—(c) II a goes in rax
kart Billion Stad (1889-1077 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(a) (c) li a goes in rax 5. a go in rbx
	(p)
	for (a,b,c) > put con stack
	for (a, b, e) get a from stack
	read c
nnadarnii daydha taata an taalka habhanka habhan an taalkii mayaan ah hiisimid maraan dhiisimid maraan dhiisim	For Ik in II to In
	If Ik is (movy s d), then for V & Lafter (k)
nocholikistisuhtaanasististoi olascatata olaheedoricinsis dayii, sarvaanee tais 30 Memmerete	add (d,v) to E unless v=d or v=s
ekilikat kilak dibinga masahasan padahan menenan manan manan sama sama sama sama sama	If Ik is like (addy s d), then for v & Lafter(k) add (d)v) to E unless v=d
us Bighall (Alberta Calle Call	S L E E D U C C C C C C C C C C C C C C C C C C
note abbatis en puede de la montra proposición de la montra del la montra della mon	(1.4.7.1) (1.4.7
ophylliaddiath (gliffelddianaiddiadgeuriadariaddianaidrianaidrianaidrianaidrianaidrianaidrianaidrianaidrianaidr	× 3 × 3
nnek kryptom kynneký przegoniająciej pomytrk i kryptokoliko i kiel nekonaliski knymala sinkanoma sa nemo	You must
	rotate =
	8 2 - 8

