```
5-11
  assign-homes : X (vars) >> X (10 vars)
   -tee slack is vast, but it is slow
   -registers are four and fast
                     (۲ اه)
(let v := 1 m
(let w= 46 m
(let x == v + 7 in
(let y = 4 + x in
(let Z := x+w m
(+ Z (-41)))))
```

7-21 assign up of to regs as we Ev3 220 seelling mary \$1, !v // let v== 1 EUNS mary, \$46, In 11 let ~ 1= 46 live set= acothe wars (x, ~3 move Iv, 1x coddy 17, 1x 11 let x= v+7 Ex, w3 mory ! x, !y [x, w, y3 adda 34, 14 Ex, w, y3 } 11 let y=4+x mond ; X' 15 Ewiy123 apple 1 m, 12 [7,2] 11 let z = x+w E+, 23 may !y , !+ 11 (- 4) £+123 negg !+ 2+, 900ax3 movy ! = , % rax 11 (+ Z +) (2mx) = line-after addy 1+, % rax

5-31				
Matra io in	or & % rox3			
Live After (K) = Ø	if k = n			
	efore (K+1) o.v.			
Live Before (k) = (Live After (k) \ w(k)) u R(k)				
W=Mst=> set (vars and reg) we starte				
Rinst -> setlins and magi				
	m: arg = sof(une and res)			
W (popg a) = M(a)	m % = 58r3			
R (gopg, a) = Ø	m r = 2 r			
w (pushy a) = 8	$m n = \emptyset$			
R (pushg, a) = M(a)				

5-4/				
w (negg a) = M(a)	R(negga) = Ma)			
w (addg sne, dst) = M(dst)	R(adda src, dst)=M(soc) u			
U	M(sst)			
w (mong src, dst) = M(lst)	R(morg sre,dst) = M(sre)			
move !x, !z   heldeller = Ew, y, z3				
w= { 23 R= {x3				
(EW, y, Z3 \ EZ3 ) U Ex3				
= {x,y,w3				

5-5) interference: When we need two wars at He same time V= Evans and regs 3 yelges = I x I y iff 3k. LiveAfter(k) 2 Exiy3 More-bigging = M

5		6
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Suppose ingst K 13 .... (adly s d) Yv & Line After (k). we'll add (d, v) to I exept for v = d (morg s d) add (s,d) to M

+ v & LiveAfter (k), we'll add (d,v) to I except on ved or ves If instr beads a brands "Special" ten add (nn) to I for all ve Line After (k) cally it treats caller-sued mys special and lover by rax, dx, rcx, 15, ydd; , r8-11