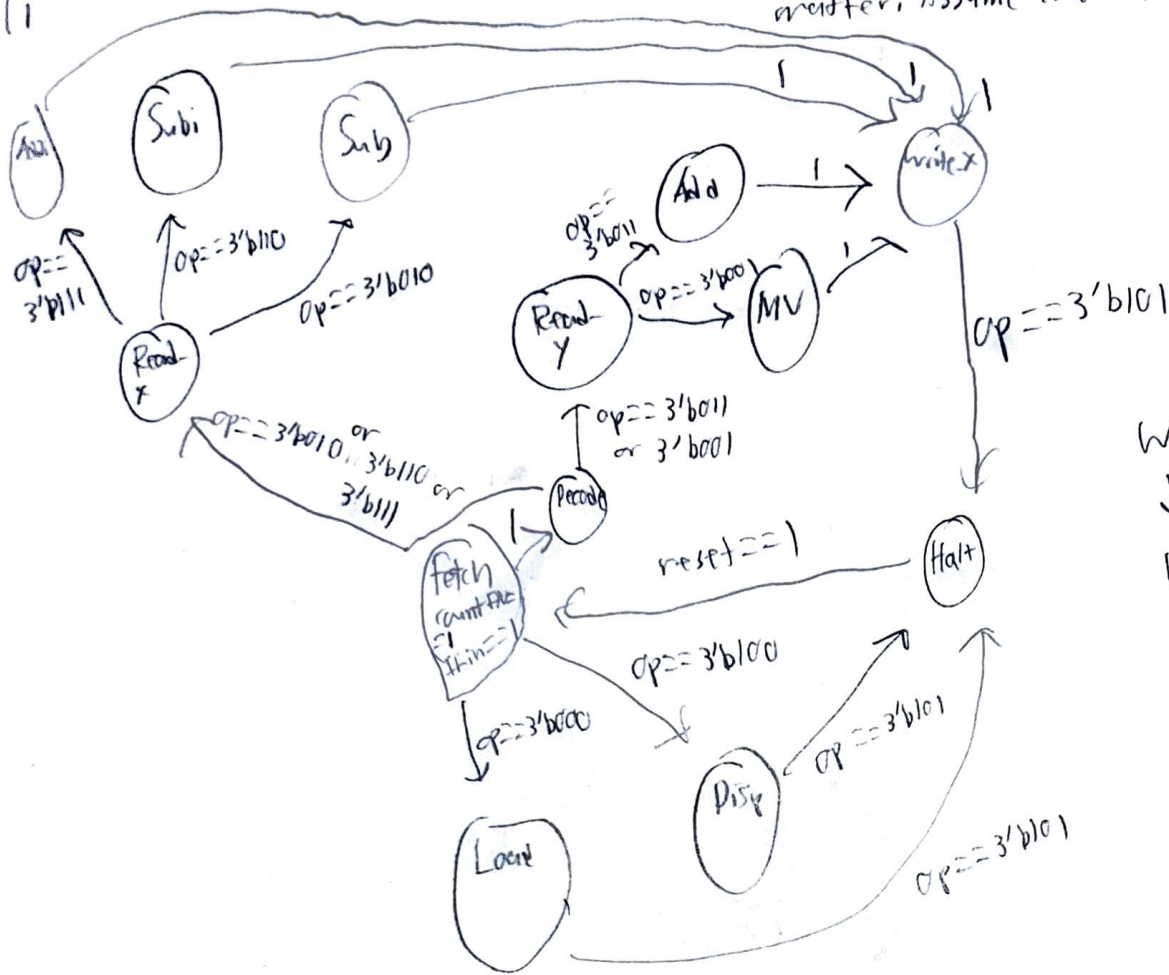


With done gone, exec doesn't matter. Assume $exec == 1$



write-x
jisp
load
all may
go straight
to fetch
(I'm not
sure)

i. The new encoding of Halt is 3'b101

Lab 4 script

Part iii.

```
Addi reg00 reg01 4 //reg00 =4
Subi reg01 reg00 2 //reg01 = 2
Load reg11 2 //reg11 = 2 loads immediate
Mv reg10 reg00 //reg10 = 4
Add reg00 reg00 //reg00=8
Sub reg01 reg01 //reg01 = 0
Disp reg00 //display 8
Halt
```

Op	reg_x	reg_y	imm	unused
111	00	01	0100	00000
110	01	00	0010	00000
000	11	00	0010	00000
001	10	00	0100	00000
011	00	00	0000	00000
010	01	01	0000	00000
100	00	00	0000	00000
101	00	00	0000	00000

```
1110001010000000
1100100001000000
0001100001000000
0011000010000000
0110000000000000
0100101000000000
1000000000000000
1010000000000000
```

iv. My program adds four to reg00, then subs 2 from reg00 and puts the difference in reg 01. Next it loads 2 into reg11 and moves reg00 into reg10 (reg10 = 4). It then adds reg00 with reg00 (reg00=8) and subs reg01 from itself (reg01=0). Lastly it displays reg00 and halts.

At the end:

```
reg00=8
reg01=0
reg10=4
Reg11=2
```