

code at 0300h

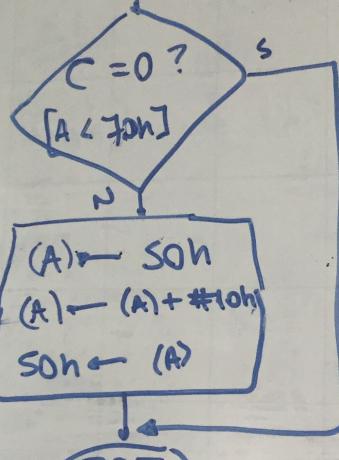
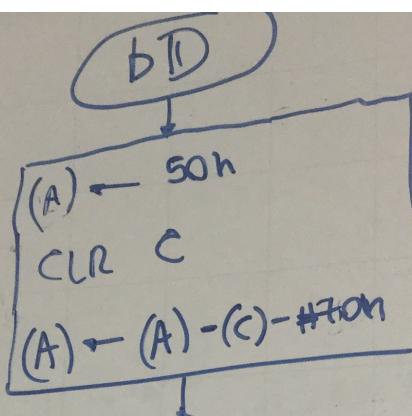
SHIP\_POS

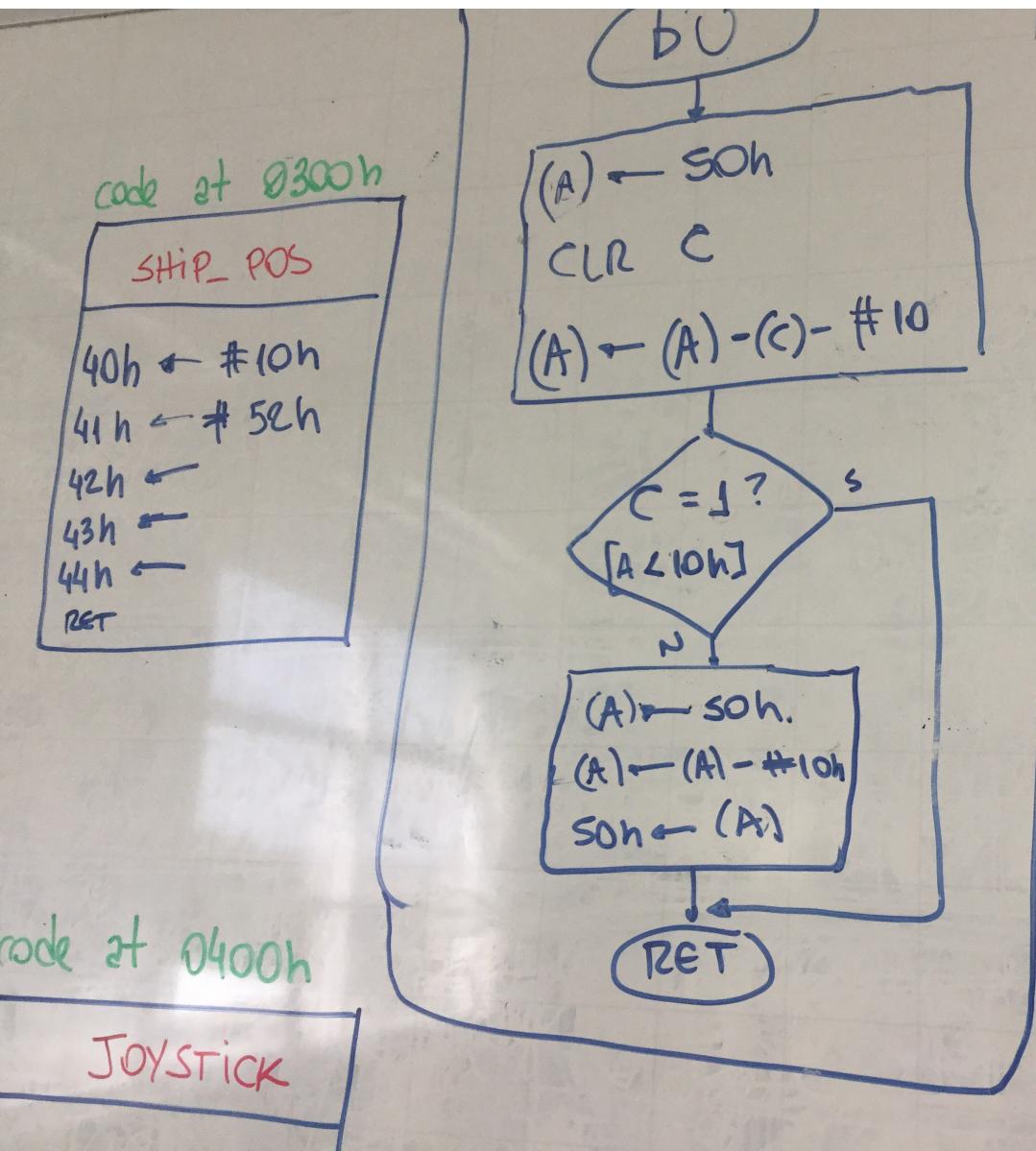
```
40h ← #10h  
41h ← #5eh  
42h ←  
43h ←  
44h ←  
RET
```

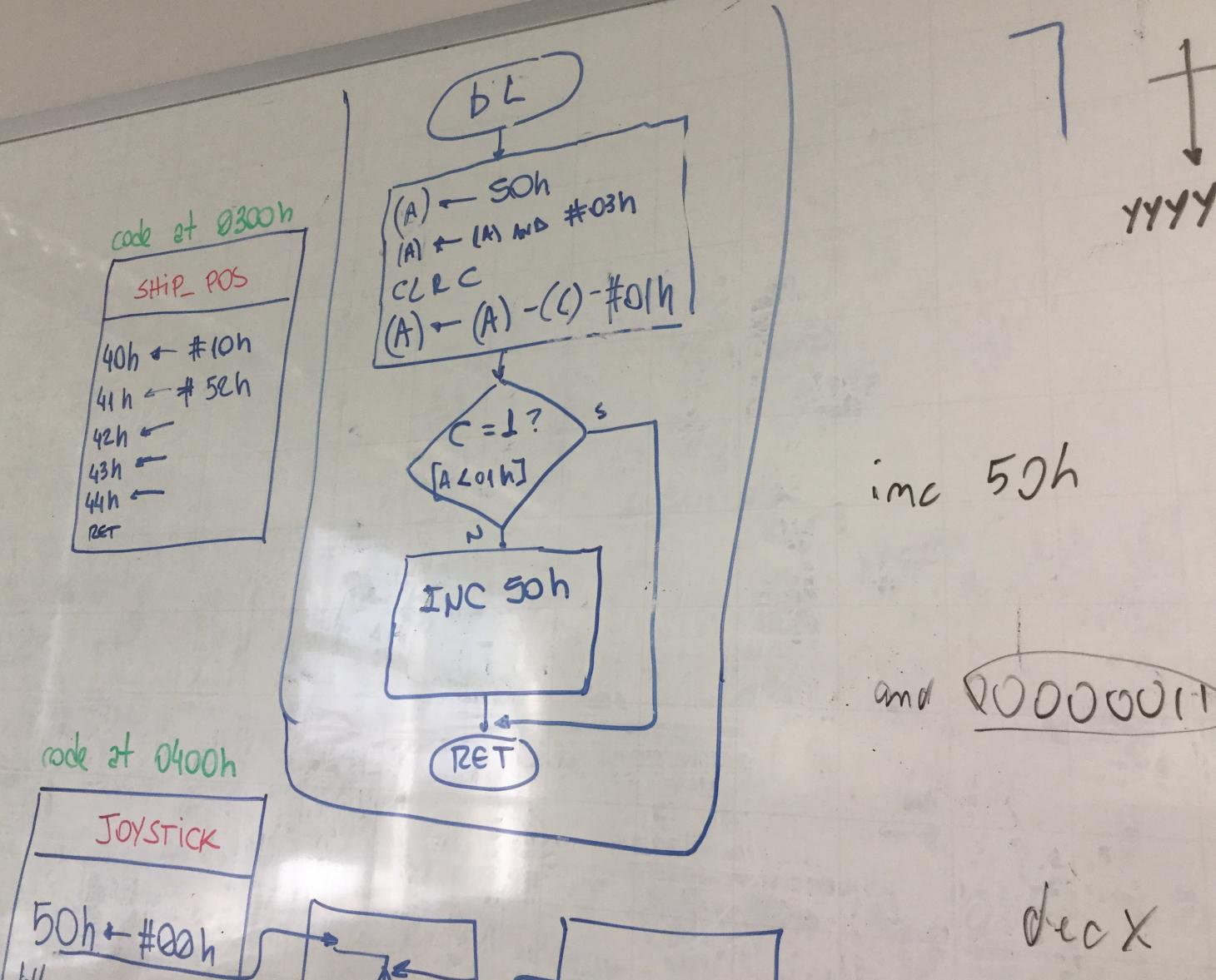
code at 0400h

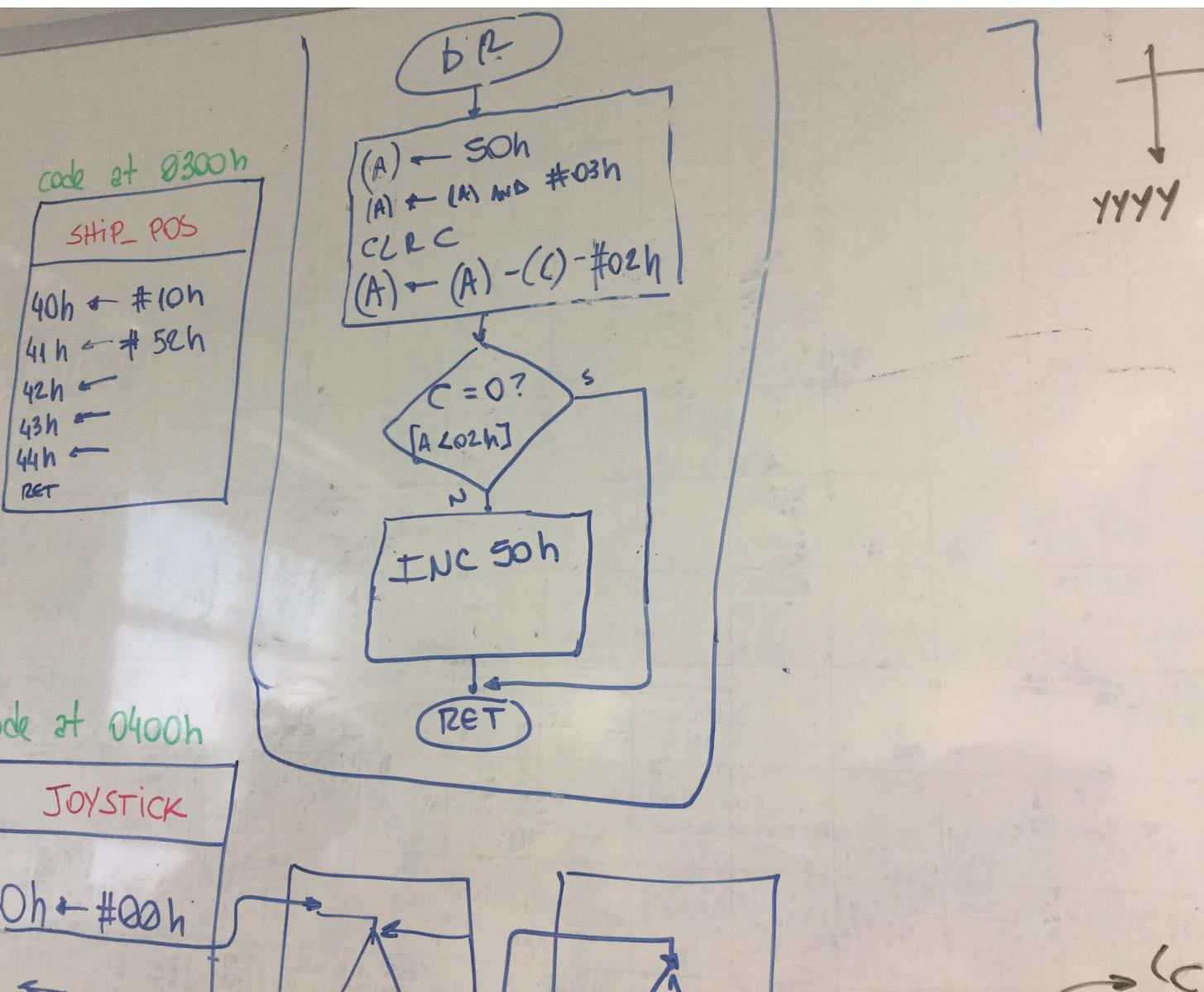
JOYSTICK

```
50h ← #00h  
bU
```

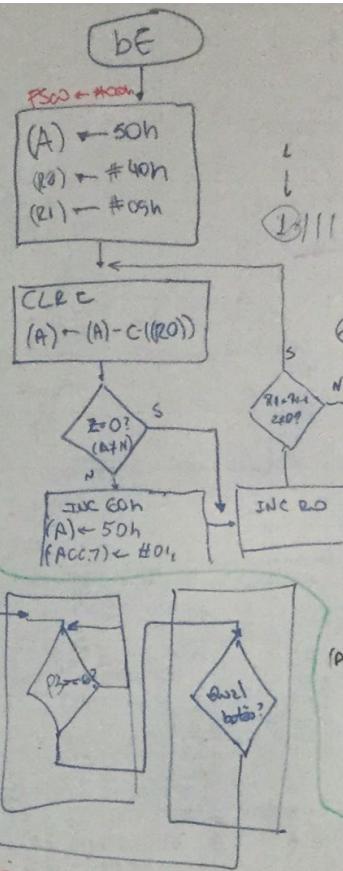
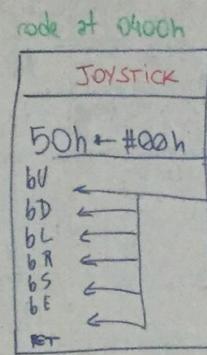
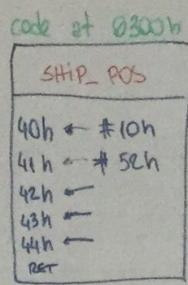
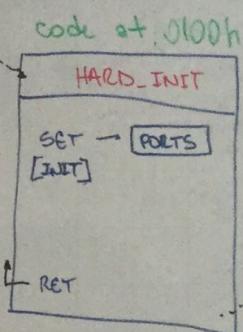
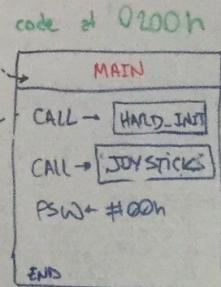
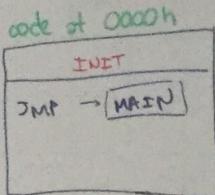




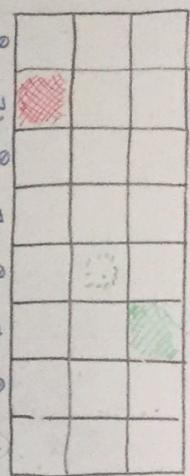




## CODE



## MAP



(5x5)

0000 0001 0010

P0 P1 P2

0001 0000 - 50h

$A = 41h$   
 $R1 = sh$   
 $R1h - 10$

$Z = 0 \neq$

$ht = 4h$

$A = 52h$

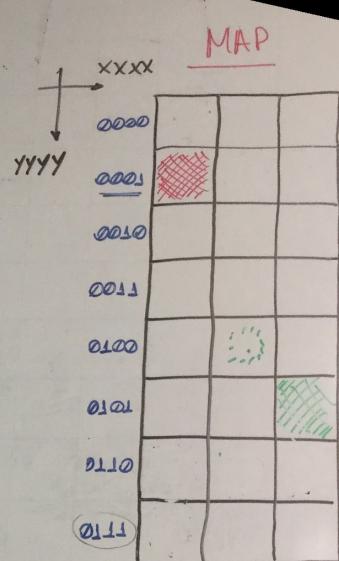
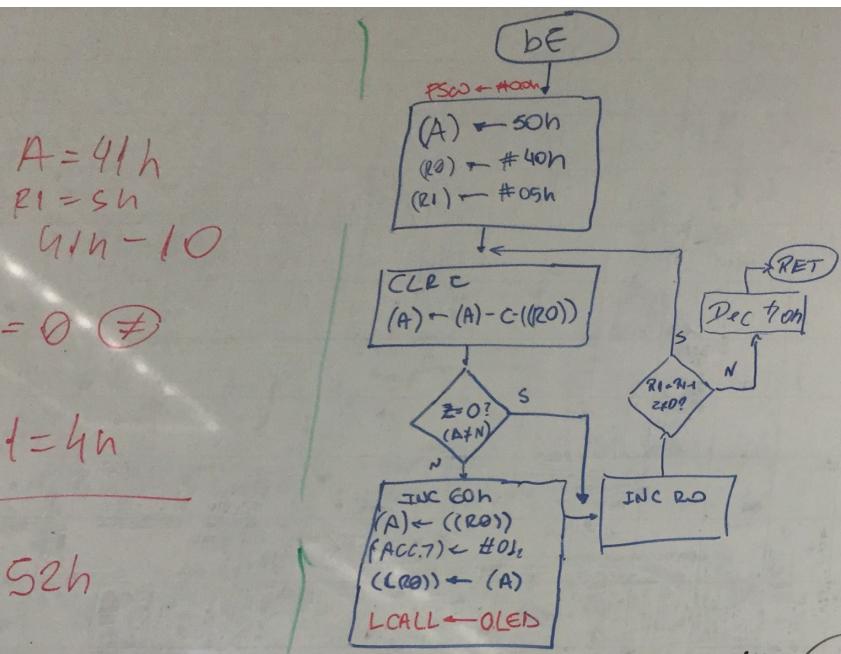
$S2 - S2$

$Z = 1 \neq$

$A = 52h \rightarrow D2h$

JOYSTICK

7 6 5 4 3 2 1 0

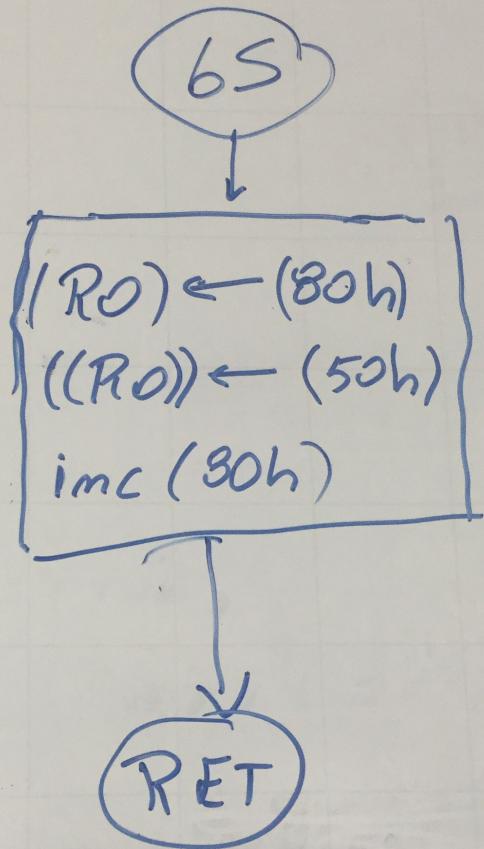


$(C) = 0 \neq$   
 $(A) - (A)$   
 $(C) = 1 \neq$

$Z = 1 \neq$   
 $CODE : YYY Y XX XX$

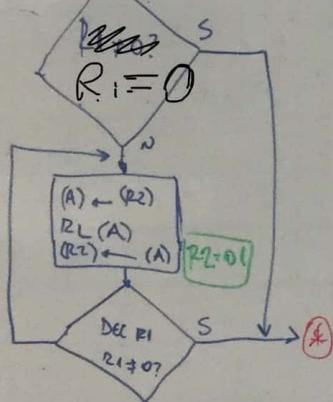
0001 0000

MALLOC

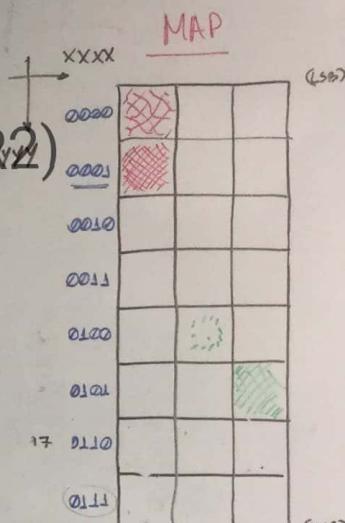


$(A) \leftarrow 90h$   $A = 90h$   
 $(A) \leftarrow (A) \text{ AND } \#03h$   $A = 80h$   
 $(A) \leftarrow (A) + \#95$   $A = 95h$   
 $(R0) \leftarrow (A)$   $R0 = 95h$

$(A) \leftarrow 90h$   $A = 90h$   
 $(A) \leftarrow (A) \text{ AND } \#70h$   $A = 00h$   
SWAP  $(A)$   $A = 00h$   
 $(R2) \leftarrow \#01h$   $R2 = 01h$   
 $(R1) \leftarrow (A)$   $R1 = 00h$



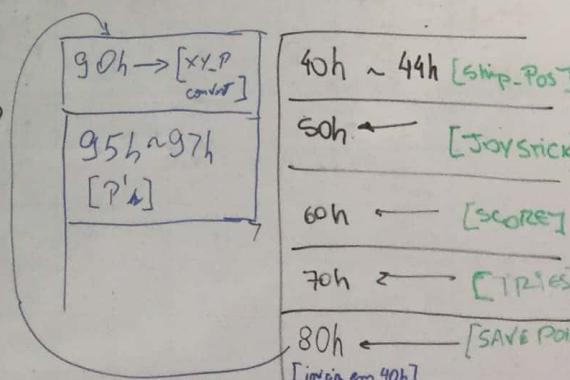
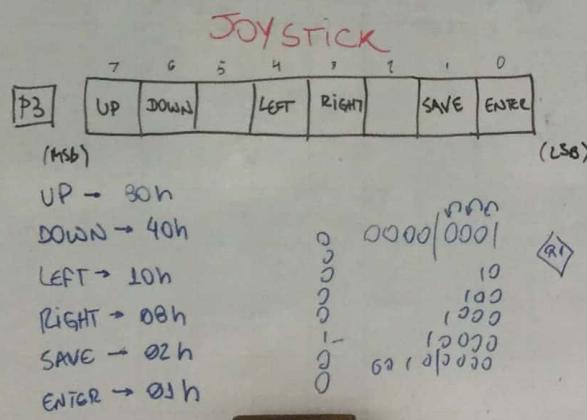
$((R0)) \leftarrow ((R0)) \text{ OR } (R2)$   
 $\text{RET}$

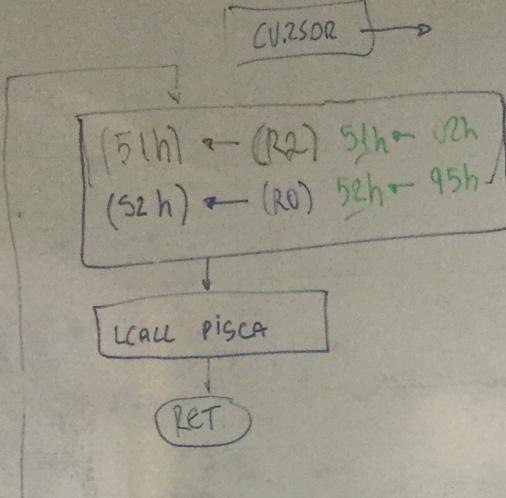
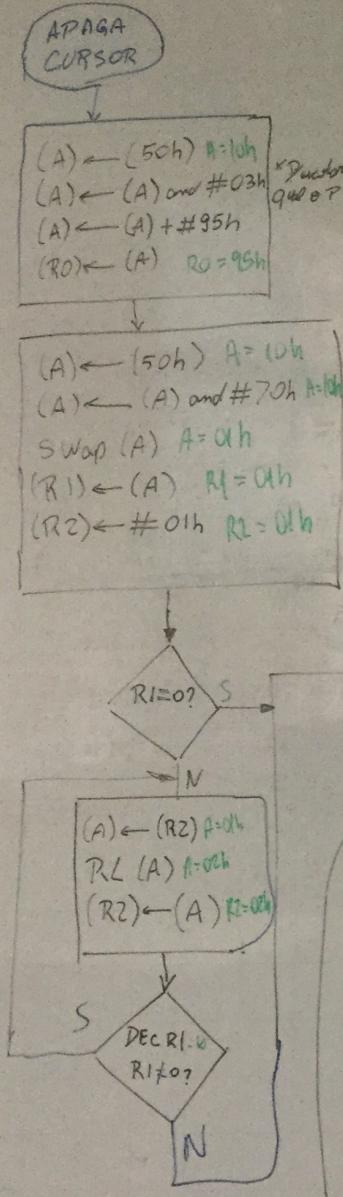


$(A) \leftarrow (A)$   $(C) = 0 \oplus$   
 $(A) \leftarrow (A)$   $(C) = 1 \oplus$   
 $\rightarrow z = 1 \ominus$   
 $\rightarrow z = 0 \neq$

$\boxed{\text{Code}} : YYY Y XXXX$   
 $0000 0001 0010$   
 $P0 P1 P2$

0000 . . .





YY YY  
0001 0000 → 50h  
R2=0000 0010  
R0=95  
→ 52h  
← 51h

