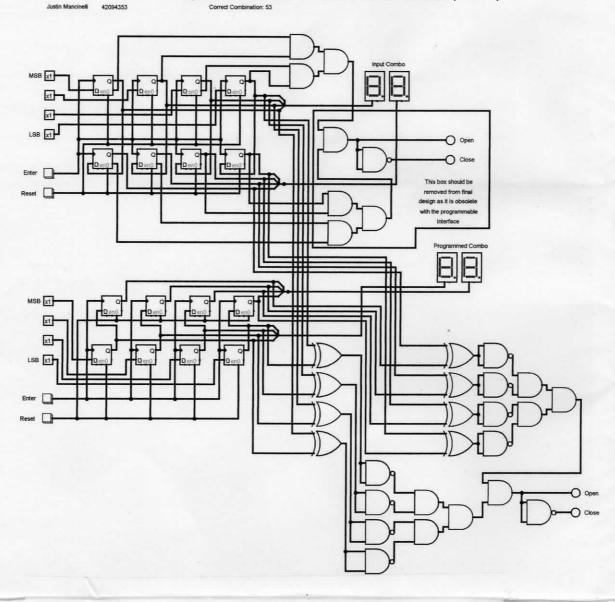


## Programmable Combination Lock XORs (1 of 1)



Procedure

1) Wire SWX and PBX to 74HCT175

@ Wire both 744CT175 to eachother and the

Hex Jisplays.

3 Test wing Hex Jisplay - All good

Hardwine Tens and Units Disits

1 Test Tens and units individually - All good

1) Wire Open and Close LEDs to logic.

(8) Test various combinations for LED output - All good

Combination Lock successfully wired for code 53.

There Task: Change Code to 8B

(1) To change the code, note that the Q outputs
from the 74HCT 175 just need to be rewised
to the binary representation,

8= 1000, \Rightarrow Q\_3 \overline{Q}\_2 \overline{Q}\_1 \overline{Q}\_0 \overline{Q}\_1 \overline{Q}\_1 \overline{Q}\_1 \overline{Q}\_2 \overline{Q}\_1 \overline{Q}\_0 \overline{Q}\_1 \overlin

2 U1: PI5, PI1, P6, P3 U3: P1, P2, P4, P5

> Uz: P15, P11, P7, P2 U4: P1 P2 P4 P5

3 Remine as in 3 and test individually - All good & Test various Combinations for LED output - All good

Combination Lock successfully rewired for code 8B.