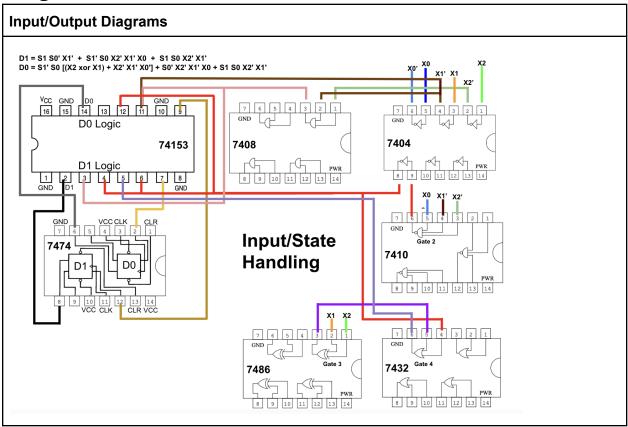
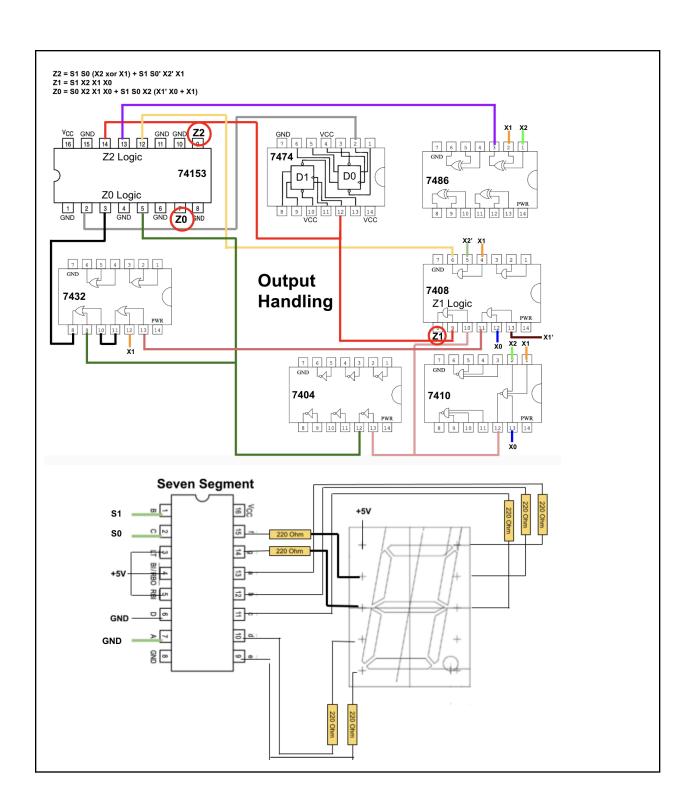
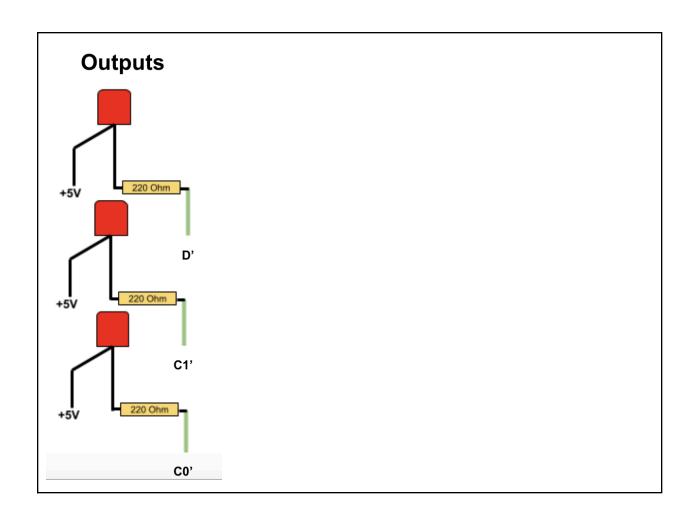
Diagrams:



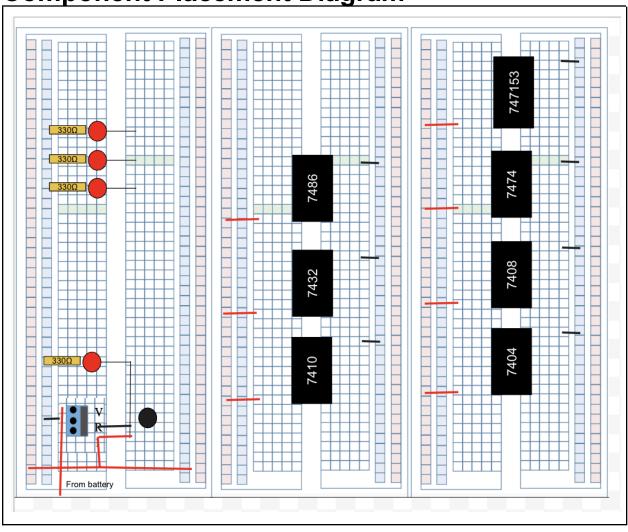




Netlists

```
GND -> [AD2], [74153 Pin 15, 11, 10, 8, 6, 4, 1], [7432 Pin 7], [7474 Pin 7], [7486 Pin 7],
[7408 Pin 7], [7410 Pin 7], [7404 Pin 7], LEDS
+V -> VRM -> 5V -> [Capacitor], [Seven Segment Display Pin 1], [74153 (both) Pin 16], [7474
Pin 4, 10, 14], [7486 Pin 14], [7408 Pin 14], [7410 Pin 14], [7404 Pin 14], [7432 Pin 14],
[74LS74 Pin 3, 4, 5, 16]
DIO 10 (X2) -> [7404 Pin 1], [7486 Pin 1], [7410 Pin 2]
7404 Pin 2 -> (X2') -> [7408 Pin 5], [7404 Pin 1], [7410 Pin 3]
DIO 8 (X1) -> [7404 Pin 3], [7486 Pin 2], [7408 Pin 4], [7410 Pin 1], [7432 Pin 12]
7404 Pin 4 -> (X1') -> [7408 Pin 2], [7410 Pin 4], [74153 Pin 11], [7408 Pin 13]
DIO 6 (X0) -> [7410 Pin 5], [7408 Pin 12], [7410 Pin 13]
7408 Pin 3 -> 75143 Pin 11. 3
7408 Pin 6 -> 75143 (2) Pin 12, 13
7408 Pin 11 -> 7432 Pin 13
7408 Pin 8 -> LED
7410 Pin 12 -> 7404 Pin 13
7404 Pin 12 -> 74153 (2) Pin 5
7404 Pin 8 -> 74153 (1) Pin 12, 6, 4
7486 Pin 3 -> 74153 (2) Pin 13 and 7432 Pin 5
7432 Pin 6 -> 74153 Pin 5
7432 Pin 11 -> 7432 Pin 10
7432 Pin 8 -> 74153(2) Pin 3
7474 Pin 2 -> 74153(2) Pin 2, 74153(1) Pin 7
7474 Pin 12 -> 74153(1) Pin 9
74LS74 -> 270 Ohm -> Seven Seg Display:
| 9 -> 4 | 10 -> 5 | 11 -> 8 | 12 -> 9 | 13 -> 10 | 14 -> 3 | 14 -> 2 |
```

Component Placement Diagram



Truth Table

tay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Name 0	
oritos 0 0 1 1 0 <td></td>	
by ruth	
priority	
A 0 0 1 1 1 0	
coin return 0 0 1 1 1 0 <th< th=""><td></td></th<>	
tay 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	
deposit 0 1 0 0 1 1 0 </th <td></td>	
18ms 0 1 0 1 0 0 1 0	
porition 0 1 0 1 1 0 1 0<	
aby ruth 0 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	
Operant 0 1 1 0 1 0 1 0 0 0 A 0 1 1 1 0	
I/A 0 1 1 1 0 -	
nin return 0 1 1 1 1 0 0 0 0 1 ay 1 0 0 0 1 0 0 0 0 0 0 eposit 1 0 0 0 1 1 1 0 0	
tay 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	
peposit 1 0 0 0 1 1 1 0 0 0 0	
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
oritos 1 0 0 1 1 0 0 0 1 0 0	
aby ruth 1 0 1 1 0 0 1 1 0 0 0 0 0 0 0	
op tart 1 0 1 0 1 0 0 0 0 0	
/A 1 0 1 1 0	
oin return 1 0 1 1 1 1 0 0 0 1 0 1 0	
tay 1 1 0 0 0 1 1 1 0 0 0	
leposit 1 1 0 0 1 1 1 0 0 1	
1 1 0 1 0 1 0 1 0 1 0 1	
oritos 1 1 0 1 1 0 0 1 1 0 1	
aby ruth 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
op tart 1 1 0 1 0 0 0 1 0 0	
A 1 1 1 0	
return 1 1 1 1 0 0 0 1 1	

Physical Circuit

Circuit

(Extended breadboard due to my 7404s and 7408 repeatedly breaking, and having to test with other chips IoI)

