

Parts

- (1) 7 Segment Led Common Anode, 10 mA 2.2V
- (1) Quad 2 Input OR, 74LS32
- (2) Quad 2-input AND, 74HC08
- (2) Quad 2-input XOR, CD4070
- (1) BCD to 7 Segment Decoder, 74LS47 (must have a $V_{cc}=2.2\text{ V}$, using a voltage regulator)
- 9V battery (must be converted approximately to 5V for IC chips using diodes or any other voltage regulator methods)