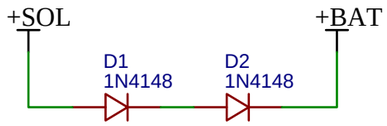
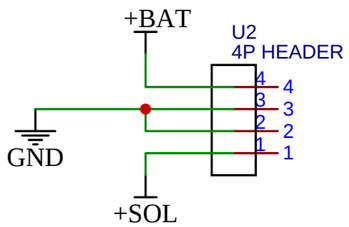
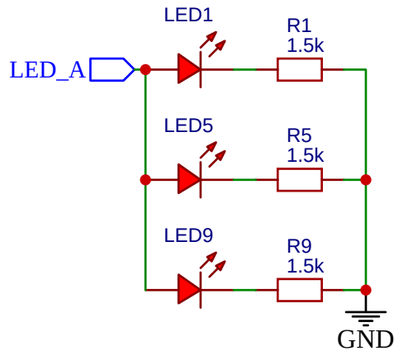
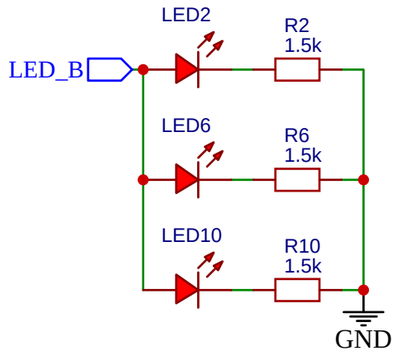
Solar: 5V, 81mA
Voltage drop: 1x 0.7V
Charge: 4.3V
Per battery: 4.3V/3 = 1.43V
(Direct: 5V/3 = 1.6V)
Ideal: 1.4-1.8V
(Max current 0.1C = 100mA)
Diode 1N4148: max 100mA
REMOVE D2 FOR 3x Batteries

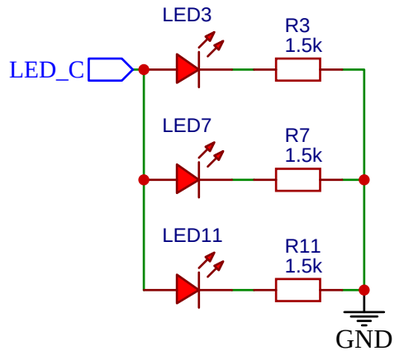


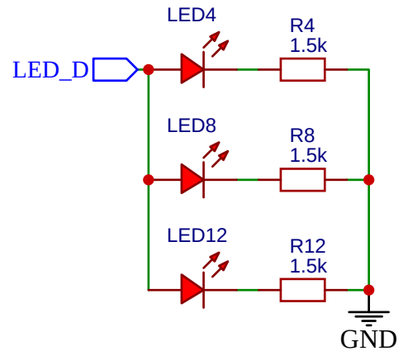
For 2x 1.2V (attiny13a):
use both D1 & D2
Drops to 3.6V (1.8V/cell)

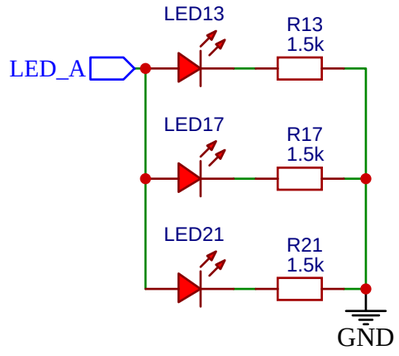


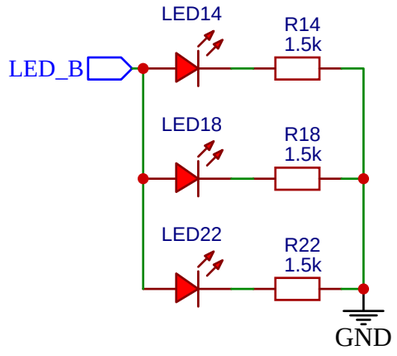


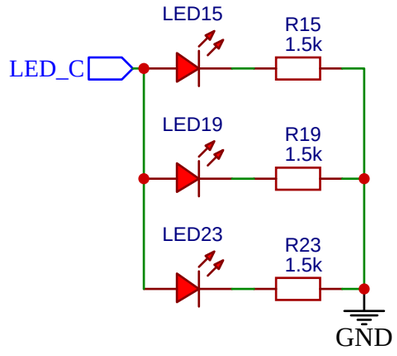


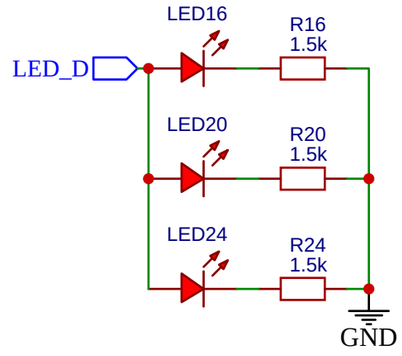


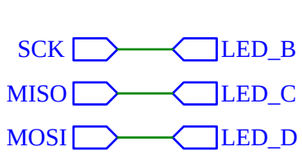


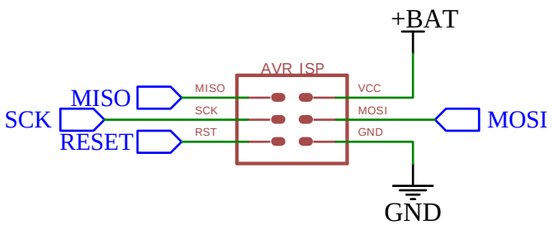






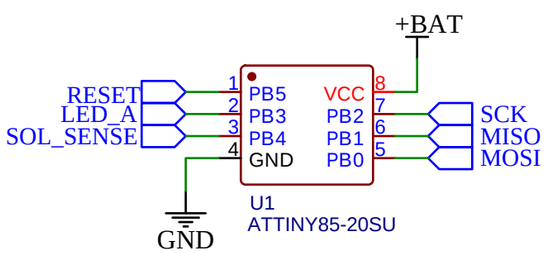






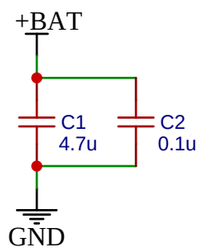
Set fuse to allow programming via RESET
RSTDISBL unset in hfuse
SPIEN set

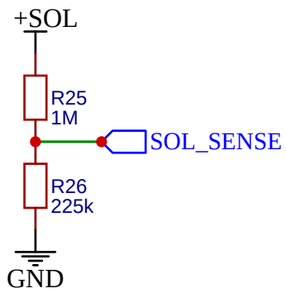
Other fuses:
BOD 2.7V: BODLEVEL=101



or Attiny13A (same layout),
to support lower voltages

+BAT = 3x 1.2 - 1.4V
= 3.6 - 4.2V





TITLE: LED_BALL_03		REV: 1.0
嘉立创EDA	Company: johnmu.com	Sheet: 1/1
	Date: 2022-12-04 Drawn By: johnmu	