int const PULSE\_SENSOR\_PIN = 0;   // 'S' Signal pin connected to A0

int Signal;                // Store incoming ADC data. Value can range from 0-1024

int Threshold = 550;       // Determine which Signal to "count as a beat" and which to ignore.

void setup() {

  pinMode(LED\_BUILTIN,OUTPUT);  // Built-in LED will blink to your heartbeat

  Serial.begin(9600);           // Set comm speed for serial plotter window

}

void loop() {

  Signal = analogRead(PULSE\_SENSOR\_PIN); // Read the sensor value

  Serial.println(Signal);                // Send the signal value to serial plotter

  if(Signal > Threshold){                // If the signal is above threshold, turn on the LED

    digitalWrite(LED\_BUILTIN,HIGH);

  } else {

    digitalWrite(LED\_BUILTIN,LOW);     // Else turn off the LED

  }

  delay(10);

}