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/*----Title-----
 File: count1.ino
 Started: 10/31/13
 Program Description: Program illuminates LEDs to
 count in binary from 1 to 255.
 Note: Use 1K resistors to limit current from the Arduino.
* /
//----Initializations----
int timer = 250;// Set the time for each number
                // displayed in ms.
int
              x;// Create a variable whose name is x
                // and whose type is int.
void setup() {
  // Use a for loop to initialize each pin as an output.
  for (int Pin = 0; Pin < 8; Pin++) {</pre>
   pinMode(Pin, OUTPUT);
}
// -----Main Code-----
void loop() {
 // Use for loop to count from 1 to 255.
 for (int x = 1; x < 256; x++) {
    // Set PORTD (digital pins 0-7) to equal x
   PORTD = x_i
    /* Illuminate LEDs to display binary number.
    For example, when x = 4 the binary number
    for 4 is %00000100. This command sets
    PORTD to %00000100, bringing pin 2 HIGH which
    turns on the LED connected to it.
    All of the pins are set LOW leaving their
    respective LEDs off.
```