```cpp
/*---------Title-----------

  File: knight_rider.ino
  Started: 10/30/13
  Program Description: Lights multiple LEDs in sequence,
   then in reverse.

*/

//-----Initializations-----

int   timer   =   100;// Set the time each LED is on in ms.

void setup() {
  // use a for loop to initialize each pin as an output:
  for (int thisPin = 2; thisPin < 10; thisPin++)  {
    pinMode(thisPin, OUTPUT);
  }
}

// --------Main Code--------

void loop() {
  // loop from pin 2 to pin 9:
  for (int thisPin = 2; thisPin < 10; thisPin++) {
    // turn the pin on:
    digitalWrite(thisPin, HIGH);
    delay(timer);
    // turn the pin off:
    digitalWrite(thisPin, LOW);

  }

  // loop from pin 8 to pin 3:
  for (int thisPin = 8; thisPin > 2; thisPin--) {
    // turn the pin on:
    digitalWrite(thisPin, HIGH);
    delay(timer);
```

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    // turn the pin off:
    digitalWrite(thisPin, LOW);

  }
}
```