const int ledCount = 8;

int ledPins[] = {5, 6, 7, 8, 9, 10, 11, 12 };

void setup() {

for (int i = 0; i < ledCount; i++) {

pinMode(ledPins[i], OUTPUT);

}

}

void loop() {

for (int i = 0; i < ledCount; i++) {

ledBarDisplay(i);

}

for (int i = ledCount; i > 0; i--) {

ledBarDisplay(i - 1);

}

}

void ledBarDisplay(int ledOn) {

for (int i = 0; i < ledCount; i++) {

if (i == ledOn)

digitalWrite(ledPins[i], HIGH);

else

digitalWrite(ledPins[i], LOW);

}

delay(50);

}