// Modified Pat McMahon 12/2/2021

//A001

// 20 LED's pin 2 to 20

int timer = 400; // The higher the number, the slower the timing.

void setup() {

 // use a for loop to initialize each pin as an output:

 for (int thisPin = 2; thisPin < 20; thisPin++) {

 pinMode(thisPin, OUTPUT);

 }

}

void loop() {

 // loop from the lowest pin to the highest:

 for (int thisPin = 2; thisPin < 20; thisPin++)

 {

 // turn the pin on:

 digitalWrite(thisPin, HIGH);

 delay(timer);

 // turn the pin off:

 digitalWrite(thisPin, LOW);

 }

 // loop from the highest pin to the lowest:

 for (int thisPin = 20; thisPin >= 2; thisPin--)

 {

 // turn the pin on:

 digitalWrite(thisPin, HIGH);

 delay(timer);

 // turn the pin off:

 digitalWrite(thisPin, LOW);

 }

}