/\* Written by Pat McMahon 25/1/2019

 \* A016-Sports Action-Table Tennis

 \* Copied by Pat McMahon 21/7/2018 from Chapter 2.8 of Alan Smith's "Introduction to Arduino" textbook

 \* www.introtoarduino.com

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const int kPinLed1 = 2;

const int kPinLed2 = 3;

const int kPinLed3 = 4;

const int kPinLed4 = 5;

const int kPinLed5 = 6;

const int kPinLed6 = 7;

const int kPinLed7 = 8;

const int kPinLed8 = 9;

const int kPinLed9 = 10;

const int kPinLed10 = 11;

const int kPinLed11 = 12;

const int kPinLed12 = 13;

const int kPinLed13 = 14;

const int kPinLed14 = 15;

const int kPinLed15 = 16;

const int kPinLed16 = 17;

const int kPinLed17 = 18;

int delayTime = 100;

void setup()

{

 pinMode(kPinLed1, OUTPUT);

 pinMode(kPinLed2, OUTPUT);

 pinMode(kPinLed3, OUTPUT);

 pinMode(kPinLed4, OUTPUT);

 pinMode(kPinLed5, OUTPUT);

 pinMode(kPinLed6, OUTPUT);

 pinMode(kPinLed7, OUTPUT);

 pinMode(kPinLed8, OUTPUT);

 pinMode(kPinLed9, OUTPUT);

 pinMode(kPinLed10, OUTPUT);

 pinMode(kPinLed11, OUTPUT);

 pinMode(kPinLed12, OUTPUT);

 pinMode(kPinLed13, OUTPUT);

 pinMode(kPinLed14, OUTPUT);

 pinMode(kPinLed15, OUTPUT);

 pinMode(kPinLed16, OUTPUT);

 pinMode(kPinLed17, OUTPUT);

 playMatch();

}

void loop()

{

}

void playMatch()

{

 // turn on each of the LEDs in order Left to Right

 for (int i = 0; i < 2; i++)

 {

 delay(delayTime);

 digitalWrite(kPinLed1, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed1, LOW);

 delay(delayTime);

 digitalWrite(kPinLed2, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed2, LOW);

 delay(delayTime);

 digitalWrite(kPinLed3, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed3, LOW);

 delay(delayTime);

 digitalWrite(kPinLed4, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed4, LOW);

 delay(delayTime);

 digitalWrite(kPinLed5, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed5, LOW);

 delay(delayTime);

 digitalWrite(kPinLed6, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed6, LOW);

 delay(delayTime);

 digitalWrite(kPinLed7, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed7, LOW);

 delay(delayTime);

 digitalWrite(kPinLed8, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed8, LOW);

 delay(delayTime);

 digitalWrite(kPinLed9, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed9, LOW);

 delay(delayTime);

 digitalWrite(kPinLed10, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed10, LOW);

 delay(delayTime);

 digitalWrite(kPinLed11, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed11, LOW);

 delay(delayTime);

 digitalWrite(kPinLed12, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed12, LOW);

 delay(delayTime);

 digitalWrite(kPinLed13, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed13, LOW);

 delay(delayTime);

 digitalWrite(kPinLed14, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed14, LOW);

 delay(delayTime);

 digitalWrite(kPinLed15, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed15, LOW);

 delay(delayTime);

 digitalWrite(kPinLed16, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed16, LOW);

 delay(delayTime);

 digitalWrite(kPinLed17, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed17, LOW);

 delay(delayTime);

 // turn on each of the LEDs in order Right to Left

 delay(delayTime);

 digitalWrite(kPinLed17, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed17, LOW);

 delay(delayTime);

 digitalWrite(kPinLed16, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed16, LOW);

 delay(delayTime);

 digitalWrite(kPinLed15, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed15, LOW);

 delay(delayTime);

 digitalWrite(kPinLed14, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed14, LOW);

 delay(delayTime);

 digitalWrite(kPinLed13, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed13, LOW);

 delay(delayTime);

 digitalWrite(kPinLed12, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed12, LOW);

 delay(delayTime);

 digitalWrite(kPinLed11, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed11, LOW);

 delay(delayTime);

 digitalWrite(kPinLed10, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed10, LOW);

 delay(delayTime);

 digitalWrite(kPinLed9, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed9, LOW);

 delay(delayTime);

 digitalWrite(kPinLed8, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed8, LOW);

 delay(delayTime);

 digitalWrite(kPinLed7, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed7, LOW);

 delay(delayTime);

 digitalWrite(kPinLed6, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed6, LOW);

 delay(delayTime);

 digitalWrite(kPinLed5, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed5, LOW);

 delay(delayTime);

 digitalWrite(kPinLed4, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed4, LOW);

 delay(delayTime);

 digitalWrite(kPinLed3, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed3, LOW);

 delay(delayTime);

 digitalWrite(kPinLed2, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed2, LOW);

 delay(delayTime);

 digitalWrite(kPinLed1, HIGH);

 delay(delayTime);

 digitalWrite(kPinLed1, LOW);

 delay(delayTime);

 }

}