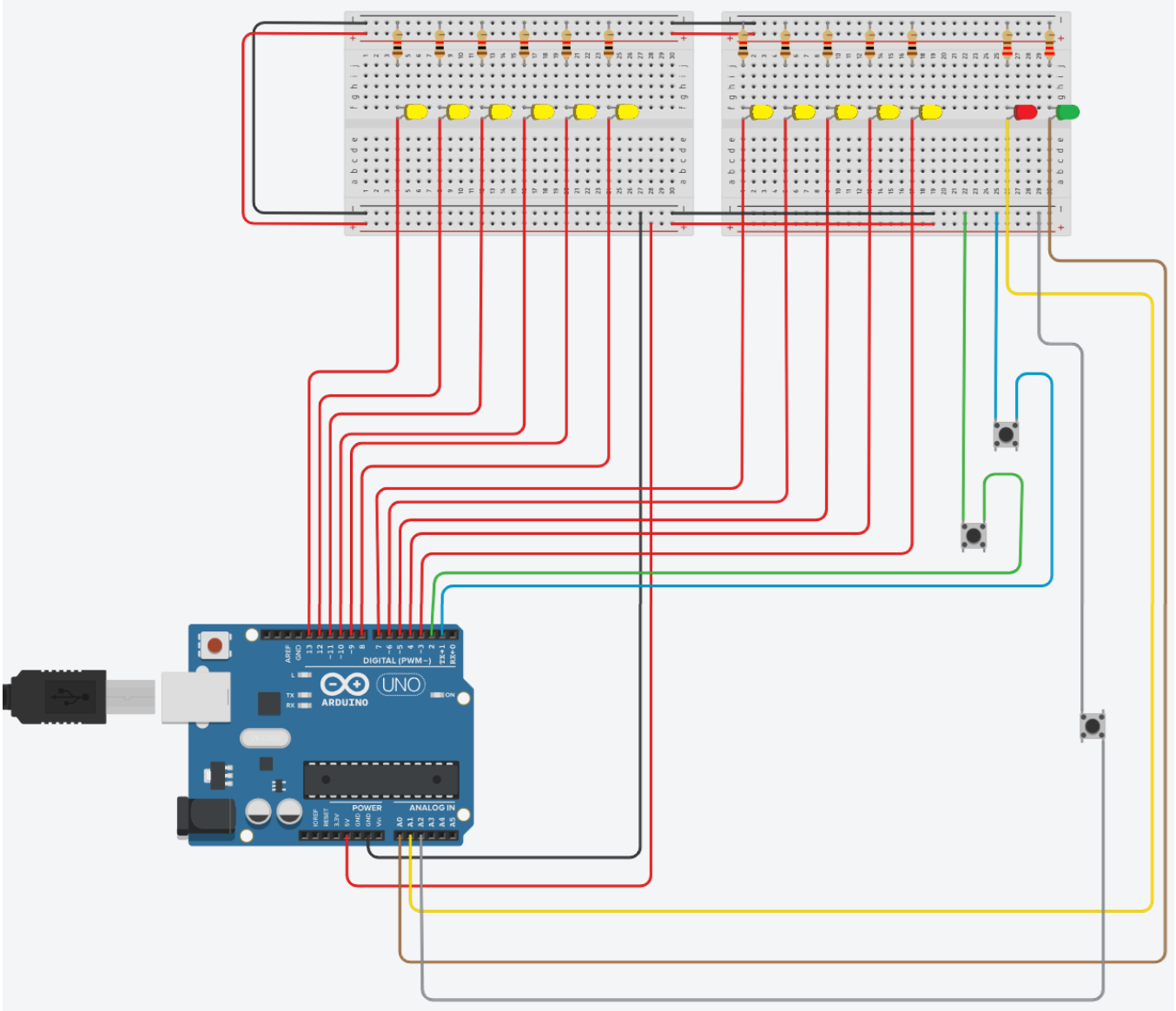
Program pre Arduino - Odoberanie zápaliek :)




```
// C++ code
//
int ZobralHrac = 0;
int Finale = 0;
int Cyklus = 1;
int SpoluZap = 11;
void setup ()
{ Serial.begin (9600);
 pinMode(13, OUTPUT);pinMode(12, OUTPUT);pinMode(11, OUTPUT);
 pinMode(10, OUTPUT);pinMode(9, OUTPUT);pinMode(8, OUTPUT);
 pinMode(7, OUTPUT);pinMode(6, OUTPUT);pinMode(5, OUTPUT);
 pinMode(4, OUTPUT);pinMode(3, OUTPUT);

 pinMode(A0, OUTPUT);
 pinMode(A1, OUTPUT);
 pinMode(A2, INPUT_PULLUP);

 pinMode(2, INPUT_PULLUP);
 pinMode(1, INPUT_PULLUP);
 pinMode(0, INPUT_PULLUP);
 }
void loop ()
```

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```
{ if (SpoluZap == 11) {digitalWrite (13, HIGH);};
 if (SpoluZap == 11) {digitalWrite (12, HIGH);};
 if (SpoluZap == 11) {digitalWrite (11, HIGH);};
 if (SpoluZap == 11) {digitalWrite (10, HIGH);};
 if (SpoluZap == 11) {digitalWrite (9, HIGH);};
 if (SpoluZap == 11) {digitalWrite (8, HIGH);};
 if (SpoluZap == 11) {digitalWrite (7, HIGH);};
 if (SpoluZap == 11) {digitalWrite (6, HIGH);};
 if (SpoluZap == 11) {digitalWrite (5, HIGH);};
 if (SpoluZap == 11) {digitalWrite (4, HIGH);};
 if (SpoluZap == 11) {digitalWrite (3, HIGH);};

 if (digitalRead (2) == 0 && SpoluZap == 11 && ZobralHrac < 3)
 {SpoluZap = 10;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (13, LOW);};

 if (digitalRead (2) == 0 && SpoluZap == 10 && ZobralHrac < 3)
 {SpoluZap = 9;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (12, LOW);};
if (digitalRead (2) == 0 && SpoluZap == 9 && ZobralHrac < 3)
 {SpoluZap = 8;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (11, LOW);};


 if (digitalRead (1) == 0 && SpoluZap == 10)
 {SpoluZap = 8;
 ZobralHrac = 0;
 delay (500);
 digitalWrite (11, LOW);
 digitalWrite (12, LOW);};

 if (digitalRead (1) == 0 && SpoluZap == 9)
 {SpoluZap = 8;
 ZobralHrac = 0;
 delay (500);
 digitalWrite (11, LOW);};

 if (digitalRead (1) == 0 && SpoluZap == 8)
 {SpoluZap = 7;
 ZobralHrac = 0;
 delay (500);
 digitalWrite (10, LOW);};


 if (digitalRead (2) == 0 && SpoluZap == 8 && ZobralHrac < 3)
 {SpoluZap = 7;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (10, LOW);};

 if (digitalRead (2) == 0 && SpoluZap == 7 && ZobralHrac < 3)
```

```
 {SpoluZap = 6;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (9, LOW);};

 if (digitalRead (2) == 0 && SpoluZap == 6 && ZobralHrac < 3)
 {SpoluZap = 5;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (8, LOW);};

 if (digitalRead (2) == 0 && SpoluZap == 5 && ZobralHrac < 3)
 {SpoluZap = 4;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (7, LOW);};


 if (digitalRead (1) == 0 && SpoluZap == 7)
 {SpoluZap = 4;
 ZobralHrac = 0;
 delay (500);
 digitalWrite (7, LOW);
 digitalWrite (8, LOW);
 digitalWrite (9, LOW);};

 if (digitalRead (1) == 0 && SpoluZap == 6)
 {SpoluZap = 4;
 ZobralHrac = 0;
 delay (500);
 digitalWrite (7, LOW);
 digitalWrite (8, LOW);};

 if (digitalRead (1) == 0 && SpoluZap == 5)
 {SpoluZap = 4;
 ZobralHrac = 0;
 delay (500);
 digitalWrite (7, LOW);};

 if (digitalRead (1) == 0 && SpoluZap == 4)
 {SpoluZap = 3;
 ZobralHrac = 0;
 delay (500);
 digitalWrite (6, LOW);};

 if (digitalRead (2) == 0 && SpoluZap == 4 && ZobralHrac < 3)
 {SpoluZap = 3;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (6, LOW);};

 if (digitalRead (2) == 0 && SpoluZap == 3 && ZobralHrac < 3)
 {SpoluZap = 2;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (5, LOW);};

if (digitalRead (2) == 0 && SpoluZap == 2 && ZobralHrac < 3)
```

```
 {SpoluZap = 1;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (4, LOW);};

 if (digitalRead (2) == 0 && SpoluZap == 1 && ZobralHrac < 3)
 {SpoluZap = 0;
 Finale = 1;
 ZobralHrac = ZobralHrac + 1;
 delay (500);
 digitalWrite (3, LOW);
 digitalWrite (A0, HIGH);
 Serial.println("GRATULUJEM.");
 };

 if (digitalRead (1) == 0 && SpoluZap == 3)
 {delay (500);
 Finale = 1;
 digitalWrite (5, LOW);
 digitalWrite (4, LOW);
 digitalWrite (3, LOW);
 digitalWrite (A1, HIGH);
 };

 if (digitalRead (1) == 0 && SpoluZap == 2)
 {delay (500);
 Finale = 1;
 digitalWrite (4, LOW);
 digitalWrite (3, LOW);
 digitalWrite (A1, HIGH);
 };
if (digitalRead (1) == 0 && SpoluZap == 1)
 {delay (500);
 Finale = 1;
 digitalWrite (3, LOW);
 digitalWrite (A1, HIGH);
 };

 if (digitalRead (A2) == 0 && Finale == 1)
 {digitalWrite (A1, LOW);
 digitalWrite (A0, LOW);
 delay (1000);
 for (Cyklus = 1; Cyklus < 10; Cyklus++)
 {digitalWrite (A1, HIGH);
 delay (250);
 digitalWrite (A1, LOW);
 delay (250);
 digitalWrite (A0, HIGH);
 delay (250);
 digitalWrite (A0, LOW);
 delay (250);
 };
SpoluZap = 11;
 ZobralHrac = 0;
 Finale = 0;
}
}
```



Prevodník, Hádzanie kockou, Semafór na železničnom priecestí a ďalšie Programy a zapojenia (ako súčasť mikrokurzu)



Arduino

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