

## 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 ()
{ 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;
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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);};
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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)

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{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;
}
```