

# ŘEŠENÍ ÚLOH

## Úkol A)

```
1  const int row[8] = {
2      2, 7, 19, 5, 13, 18, 12, 16
3  };
4
5  const int col[8] = {
6      6, 11, 10, 3, 17, 4, 8, 9
7  };
8
9  void setup(){
10     for(int i = 0; i < 8; i++){
11         pinMode(col[i], OUTPUT);
12         pinMode(row[i], OUTPUT);
13         digitalWrite(col[i], HIGH);
14         digitalWrite(row[i], LOW);
15     }
16 }
17
18 void loop(){
19     refreshScreen();
20 }
21
22 void refreshScreen(){
23     for(int j = 0; j<8;j++){
24         digitalWrite(col[j], LOW);
25         for(int k = 0; k<8; k++){
26             digitalWrite(row[k], HIGH);
27         }
28         Clear();
29     }
30 }
31
32 void Clear(){
33     for(int i = 0; i<8; i++){
34         digitalWrite(row[i],LOW);
35         digitalWrite(col[i],HIGH);
36     }
37 }
```

## Úkol B)

```
1  const int row[8] = {
2      2, 7, 19, 5, 13, 18, 12, 16
3  };
4
5  const int col[8] = {
6      6, 11, 10, 3, 17, 4, 8, 9
7  };
8
9  void setup(){
10     for(int i = 0; i < 8; i++){
11         pinMode(col[i], OUTPUT);
12         pinMode(row[i], OUTPUT);
13         digitalWrite(col[i], HIGH);
14         digitalWrite(row[i], LOW);
15     }
16 }
17
18 void loop(){
19     refreshScreen();
20 }
21
22 void refreshScreen(){
23     for(int j = 0; j<8;j++){
24         digitalWrite(row[j], LOW);
25         for(int k = 0; k<8; k++){
26             digitalWrite(col[k], HIGH);
27             delay(100);
28             digitalWrite(col[k], LOW);
29         }
30         digitalWrite(row[j], HIGH);
31     }
32 }
```