ŘEŠENÍ ÚLOH

Úkol A)

```
const int row[8] = {
  2, 7, 19, 5, 13, 18, 12, 16
};

const int col[8] = {
  6, 11, 10, 3, 17, 4, 8, 9
};

void setup(){
    for(int i = 0; i < 8; i++){
        pinMode(col[i], OUTPUT);
        pinMode(row[i], OUTPUT);
        digitalWrite(col[i], HIGH);
        digitalWrite(row[i], LOW);
    }
}

void loop(){
    refreshScreen();
}

void refreshScreen(){
  for(int j = 0; j<8;j++){
    digitalWrite(col[j], LOW);
    for(int k = 0; k<8; k++){
      digitalWrite(row[k], HIGH);
    }
    Clear();
  }
}

void Clear(){
  for(int i = 0; i<8; i++){
    digitalWrite(row[i],LOW);
    digitalWrite(col[i],HIGH);
  }
}
```

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  }
```