C (CLang)/teme/tema8/main.c

```
#include <stdio.h>
 2
 3
    int data[3];
    int luna[13] = {0, 31, 28, 31, 30, 31, 30, 31, 30, 31, 30, 31};
 5
 6
    void leap_year() {
 7
        if (data[2] % 4 == 0) {
 8
            if (data[2] % 100 == 0) {
 9
                if (data[2] % 400 == 0) {
10
                     luna[2]++;
11
                 }
            } else {
12
                luna[2]++;
13
14
            }
15
        }
16
17
18
    int validare_data(int data[3]) {
19
        if (data[2] >= 0) {
20
            if (data[1] >= 1 && data[1] <= 12) {</pre>
                if (data[0] >= 1 && data[0] <= luna[data[1]]) {</pre>
21
22
                     return 1;
23
                }
24
            }
25
        }
        return 0;
26
27
    }
28
29
    void data_urmatoare(int data[3]) {
30
        data[0]++;
31
        if (data[0] > luna[data[1]]) {
32
            data[0] -= luna[data[1]];
33
            data[1]++;
34
            if (data[1] > 12) {
35
                data[1] = 1;
36
                data[2]++;
37
38
        }
39
    }
40
41
    int nr_de_zile() {
42
        int zile = 0;
43
        int data1[3], data2[3];
44
45
        for (int i = 0; i < 3; i++) {
            scanf("%d", &data1[i]);
46
47
        for (int i = 0; i < 3; i++) {
48
49
            scanf("%d", &data2[i]);
50
        if (validare_data(data1) && validare_data(data2)) {
51
```

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```
52
            while (data1[0] != data2[0] || data1[1] != data2[1] ||
53
                   data1[2] != data2[2]) {
54
                data_urmatoare(data1);
55
                zile++;
56
            }
57
        }
58
       return zile;
59
   }
60
   int main() {
61
        for (int i = 0; i < 3; i++) {
62
            scanf("%d", &data[i]);
63
64
        }
65
       leap_year();
       printf("%d\n", validare_data(data));
66
67
       if (validare_data(data)) {
            data_urmatoare(data);
68
69
            for (int i = 0; i < 3; i++) {
                printf("%d ", data[i]);
70
71
            }
72
        }
       printf("%d", nr_de_zile());
73
74
75
       return ∅;
76 }
```

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