

```
1 using System.Dynamic;
2
3 namespace RepasoCurso
4 {
5     public class Date
6     {
7         private int _year;
8         private int _month;
9         private int _day;
10
11         public Date()
12         {
13             _year = 1900;
14             _month = 1;
15             _day = 1;
16         }
17
18         public Date(int year, int month, int day)
19         {
20             _year = year;
21             _month = month;
22             _day = day;
23         }
24
25         public int Year => _year;
26         public int Month
27         {
28             get
29             {
30                 if (_month < 1)
31                     _month = 1;
32                 else if (_month > 12)
33                     _month = 12;
34                 return _month;
35             }
36         }
37         public int Day
38         {
39             get
40             {
41                 if (_day < 1)
42                     _day = 1;
43                 else if (_day > 31)
44                     _day = 12;
45                 return _day;
46             }
47         }
48
49         public void IsLeapYear()
50         {
51
52         }
53
```

```
54     public int GetDaysoftheMonth()
55     {
56         return MonthsDay(_month);
57     }
58     public static int GetDaysoftheMonth(int month)
59     {
60         return MonthsDayStatic(month);
61     }
62
63     private int MonthsDay(int month)
64     {
65         switch (month)
66         {
67             case 1:
68             case 3:
69             case 5:
70             case 7:
71             case 8:
72             case 10:
73             case 12:
74                 return 31;
75             case 4:
76             case 6:
77             case 9:
78             case 11:
79                 return 30;
80             case 2:
81                 return 28;
82             default:
83                 return -1;
84         }
85     }
86
87     private static int MonthsDayStatic(int month)
88     {
89         switch (month)
90         {
91             case 1:
92             case 3:
93             case 5:
94             case 7:
95             case 8:
96             case 10:
97             case 12:
98                 return 31;
99             case 4:
100            case 6:
101            case 9:
102            case 11:
103                return 30;
104            case 2:
105                return 28;
106            default:
```

```
107         return -1;
108     }
109 }
110 }
111 }
```