13. Debug the Code: Holidays Between Two Dates

You are assigned to find and fix all bugs in the existing code. By using the Visual Studio debugger, place a breakpoint and find the lines of code that produce incorrect or unexpected results.

You are given a program (existing **source code**) that aims to **count the non-working days between two dates** in format **`day.month.year`** (e.g. between **1.05.2015** and **15.05.2015** there are **5** non-working days – Saturday and Sunday).

Examples

Input	Output	Comments
1.05.2016 15.05.2016	5	There are 5 non-working days (Saturday / Sunday) in this period: 1-May-2016, 7-May-2016, 8-May-2016, 14-May-2016, 15-May-2016
1.5.2016 2.5.2016	1	Only 1 non-working day in the specified period: 1.05.2016 (Sunday)
15.5.2020 10.5.2020	0	The second date is before the first. No dates in the range.
22.2.2020 1.3.2020	4	Two Saturdays and Sundays: • 22.02.2020 and 23.02.2020 • 29.02.2020 and 1.03.2020

You can **find the broken code** in the judge system: Broken Code for Refactoring. It looks as follows:

HolidaysBetweenTwoDates.cs

```
using System;
using System.Globalization;

class HolidaysBetweenTwoDates
{
    static void Main()
    {
        var startDate = DateTime.ParseExact(Console.ReadLine(),
            "dd.m.yyyy", CultureInfo.InvariantCulture);
        var endDate = DateTime.ParseExact(Console.ReadLine(),
            "dd.m.yyyy", CultureInfo.InvariantCulture);
        var holidaysCount = 0;
        for (var date = startDate; date <= endDate; date.AddDays(1))
            if (date.DayOfWeek == DayOfWeek.Saturday &&
                date.DayOfWeek == DayOfWeek.Sunday) holidaysCount++;
        Console.WriteLine(holidaysCount);
    }
}
```

Hints

There are **4 mistakes** in the code. You've got to **use the debugger** to find them and fix them. After you do that, submit your **fixed code in the judge contest**.