

# C# Day 3 Assignment

1. In this exercise, you must construct an if statement that checks if the number guess is equal to 500. If that is the case, use `Console.WriteLine` to display "Success!".
2. Define an array called fruits that holds the following strings: "apple", "banana", and "orange".
3. Print the value of variable X to the screen N number of times
4. Write a method that divides two numbers (provided as parameters). Tip: you will need to use the modifiers public and static.
5. Create a program to display certain values of the function  $y = x^2 - 2x + 1$  (using integer numbers for x, ranging from -10 to +10)
6. Write a C# program to get three numbers from the user and display the greatest one.
7. Create a C# program to ask the user for 10 real numbers and display the average of the positive ones and the average of the negative ones.
8. Create a program that uses recursion to calculate a number in the Fibonacci series (in which the first two items are 1, and for the other elements, each one is the sum of the preceding two).
9. Create a function which draws a parallelogram, with the width, height and character specified as parameters:  
`DrawParallelogram(10,4,'*');`

would display

```

*****
  *****
*****
*****
*****

```

10. Create a program whose Main must be like this:

```
public static void Main()  
{  
    __Console.WriteLine("\"Hello, how are you\" contains {0} spaces",  
        ____CountSpaces("Hello, how are you") );  
}
```

CountSpaces is a function that you must define and that will be called from inside Main.

As you can see in the example, it must accept a string as a parameter, and it must return an integer number (the amount of spaces in that string).