**Spot the Differences**

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C#

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This kata is part of the collection [Mary's Puzzle Books](https://www.codewars.com/collections/marys-puzzle-books).

Mary brought home a "spot the differences" book. The book is full of a bunch of problems, and each problem consists of two strings that are similar. However, in each string there are a few characters that are different. An example puzzle from her book is:

String 1: "abcdefg"

String 2: "abcqetg"

Notice how the "d" from String 1 has become a "q" in String 2, and "f" from String 1 has become a "t" in String 2.

It's your job to help Mary solve the puzzles. Write a program spot\_diff/Spot that will compare the two strings and return a list with the positions where the two strings differ. In the example above, your program should return [3, 5] because String 1 is different from String 2 at positions 3 and 5.

NOTES:

• If both strings are the same, return new List<int>()

• Both strings will always be the same length

• Capitalization and punctuation matter

<https://www.codewars.com/kata/spot-the-differences/csharp>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

public static List<int> Spot(string s1, string s2)

{

// Code here

List<int> indices = new List<int>();

for (int i = 0; i < s1.Length; i++)

{

if (s1[i] != s2[i])

{

indices.Add(i);

}

}

return indices;

}

static void Main(string[] args)

{

}

}

}