**7 kyu**

**shorter concat [reverse longer]**

48589% of 164465 of4,596[knotman90](https://www.codewars.com/users/knotman90" \o "This kata's Sensei)

C#

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Given 2 strings, a and b, return a string of the form: shorter+reverse(longer)+shorter.

In other words, the shortest string has to be put as prefix and as suffix of the reverse of the longest.

Strings a and b may be empty, but not null (In C# strings may also be null. Treat them as if they are empty.).  
If a and b have the same length treat a as the longer producing b+reverse(a)+b

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static string ShorterReverseLonger(string a, string b)

{

if (a == null && b == null) return "";

if (a == null)

{

char[] ch = b.ToCharArray();

Array.Reverse(ch);

return new string(ch);

}

if (b == null)

{

char[] ch = a.ToCharArray();

Array.Reverse(ch);

return new string(ch);

}

if (a.Length < b.Length)

{

string temp = a;

a = b;

b = temp;

}

char[] rev = a.ToCharArray();

Array.Reverse(rev);

return b + new string(rev) + b;

}

static void Main(string[] args)

{

string input\_a = "hello";

string input\_b = "bau";

string expected = "bauollehbau";

Console.WriteLine(ShorterReverseLonger(input\_a, input\_b));

Console.ReadLine();

}

}

}