



Problem

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A string is said to be a child of a another string if it can be formed by deleting 0 or more characters from the other string. Letters cannot be rearranged. Given two strings of equal length, what's the longest string that can be constructed such that it is a child of both?

Example

 $s1 = \text{'ABCD'}$ $s2 = \text{'ABDC'}$

These strings have two children with maximum length 3, ABC and ABD. They can be formed by eliminating either the D or C from both strings. Return **3**.

Function Description

Complete the commonChild function in the editor below.

commonChild has the following parameter(s):

- string s1: a string
- string s2: another string

Returns

- int: the length of the longest string which is a common child of the input strings

Input Format

There are two lines, each with a string, $s1$ and $s2$.

Constraints

- $1 \leq |s1|, |s2| \leq 5000$ where $|s|$ means "the length of s "
- All characters are upper case in the range ascii[A-Z].

Sample Input

```
HARRY
SALLY
```

Sample Output

```
2
```

Explanation

The longest string that can be formed by deleting zero or more characters from *HARRY* and *SALLY* is *AY*, whose length is 2.

Sample Input 1

```
AA
BB
```

Sample Output 1

Explanation 1

AA and **BB** have no characters in common and hence the output is 0.

Sample Input 2

```
SHINCHAN
NOHARAAA
```

Sample Output 2

3

Explanation 2

The longest string that can be formed between **SHINCHAN** and **NOHARAAA** while maintaining the order is **NHA**.

Sample Input 3

```
ABCDEF
FBDAMN
```

Sample Output 3

2

Explanation 3

BD is the longest child of the given strings.

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Language

C#



```
1  using System.CodeDom.Compiler;
2  using System.Collections.Generic;
3  using System.Collections;
4  using System.ComponentModel;
5  using System.Diagnostics.CodeAnalysis;
6  using System.Globalization;
7  using System.IO;
8  using System.Linq;
9  using System.Reflection;
10 using System.Runtime.Serialization;
11 using System.Text.RegularExpressions;
12 using System.Text;
13 using System;
14
15 class Result
16 {
17
18     /*
19      * Complete the 'commonChild' function below.
20      *
21      * The function is expected to return an INTEGER.
22      * The function accepts following parameters:
23      * 1. STRING s1
24      * 2. STRING s2
25      */
```

26

27 public static int commonChild(string s1, string s2)

Line: 82 Col: 1

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