

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

```
0
```

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.