# Common Child ★

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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 = 'ABCD'

s2 = '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,  $m{s1}$  and  $m{s2}$ .

## Constraints

- ullet  $1 \leq |s1|, \ |s2| \leq 5000$  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  $\it HARRY$  and  $\it SALLY$  is  $\it AY$ , whose length is 2.

## Sample Input 1

AA

ВВ

## Sample Output 1

0

## **Explanation 1**

 $m{AA}$  and  $m{BB}$  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

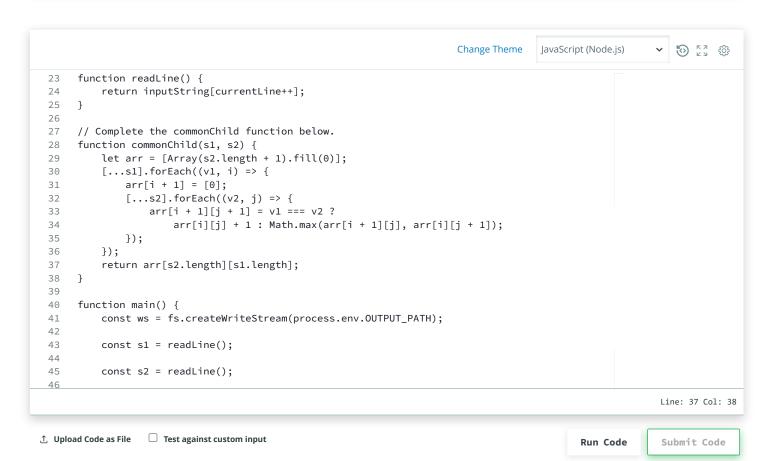
ABCDEF
FBDAMN

Sample Output 3

2

Explanation 3

BD is the longest child of the given strings.
```



# **Congratulations!**

You have passed the sample test cases. Click the submit button to run your code against all the test cases.





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