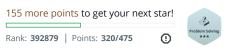
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Common Child ☆



Your Common Child submission got 60.00 points.

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Problem Leaderboard Submissions Editorial A **Topics**

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. Given two strings of equal length, what's the longest string that can be constructed such that it is a child of both?

For example, ABCD and ABDC have two children with maximum length 3, ABC and ABD. They can be formed by eliminating either the D or C from both strings. Note that we will not consider ABCD as a common child because we can't rearrange characters and ABCD eq ABDC.

Function Description

Complete the commonChild function in the editor below. It should return the longest string which is a common child of the input strings. commonChild has the following parameter(s):

• s1, s2: two equal length strings

Input Format

There is one line with two space-separated strings, s1 and s2.

Constraints

- $1 \le |s1|, |s2| \le 5000$
- All characters are upper case in the range ascii[A-Z].

Output Format

Print the length of the longest string $m{s}$, such that $m{s}$ is a child of both $m{s1}$ and $m{s2}$.

Sample Input

HARRY SALLY

Sample Output

2

Explanation

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

Sample Input 1

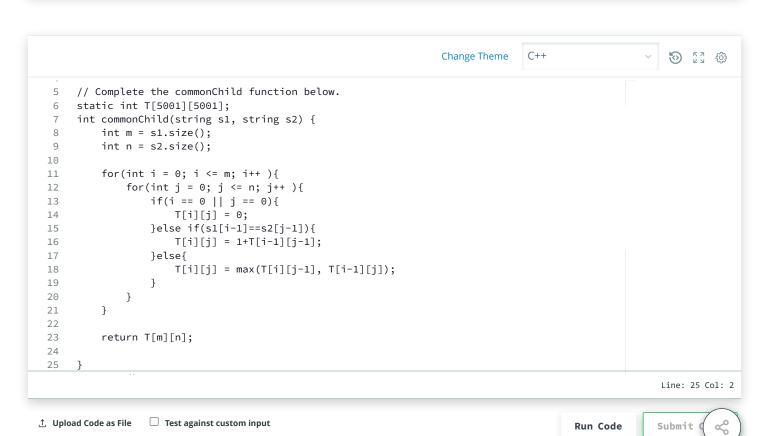
AA

BB

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
m{BD} is the longest child of the given strings.
```

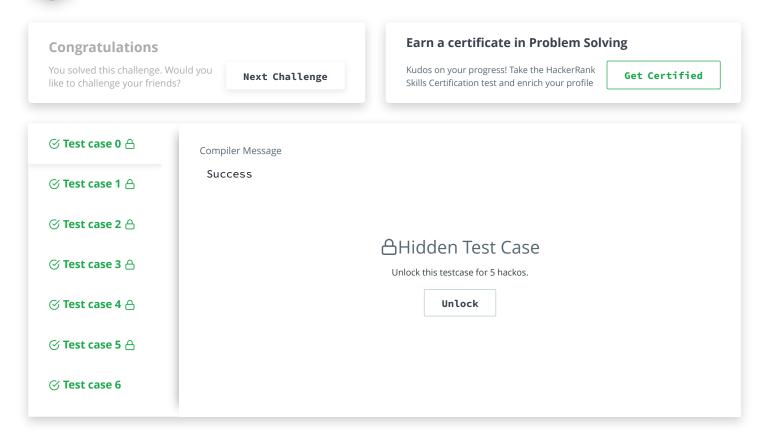


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