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Common Child *

Problem Submissions Leaderboard Discussions Editorial **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 ≠ 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, $m{s1}$ and $m{s2}$. Constraints • $1 \le |s1|, |s2| \le 5000$ • All characters are upper case in the range ascii[A-Z]. 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 HARRY and SALLY is AY, whose length is 2. Sample Input 1 ВВ Sample Output 1 **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 Explanation 2 The longest string that can be formed between $m{SHINCHAN}$ and $m{NOHARAAA}$ while maintaining the order is $m{NHA}$. Sample Input 3 ABCDEF FBDAMN Sample Output 3 2 Explanation 3 ${m B}{m D}$ is the longest child of the given strings.

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