



Practice Arena

Practice problems aimed to improve your coding skills.

- 📁 PRACTICE-02_SCAN-PRINT
- 📁 PRACTICE-03_TYPES
- 📁 LAB-PRAC-02_SCAN-PRINT
- 📁 LAB-PRAC-01
- 📁 PRACTICE-04_COND
- 📁 BONUS-PRAC-02
- 📁 LAB-PRAC-03_TYPES
- 📁 PRACTICE-05_COND-LOOPS
- 📁 LAB-PRAC-04_COND
- 📁 LAB-PRAC-05_CONDDLOOPS
- 📁 PRACTICE-07_LOOPS-ARR
- 📁 LAB-PRAC-06_LOOPS
- 📁 LAB-PRAC-07_LOOPS-ARR
- 📁 LABEXAM-PRAC-01_MIDSEM
- 📁 PRACTICE-09_PTR-MAT
- 📁 LAB-PRAC-08_ARR-STR
 - ❓ Il fratello di Fibonacci
 - ❓ Hidden Palindrome
 - ❓ Hush Hush Hash
 - ❓ Maximum Match
 - ❓ El secreto de sus l
 - ❓ Star Replacement
 - ❓ Stronger together
 - ❓ Rigorous and repeated redaction
 - ❓ strnrev
 - ❓ Monster and Mini Multiply
 - ❓ Clash of the Substrings
 - ❓ Personalizing Emails
- 📁 PRACTICE-10_MAT-FUN
- 📁 LAB-PRAC-09_PTR-MAT
- 📁 LAB-PRAC-10_MAT-FUN
- 📁 PRACTICE-11_FUN-PTR
- 📁 LAB-PRAC-11_FUN-PTR
- 📁 LAB-PRAC-12_FUN-STRUC
- 📁 LABEXAM-PRAC-02_ENDSEM
- 📁 LAB-PRAC-13_STRUC-NUM
- 📁 LAB-PRAC-14_SORT-MISC

Clash of the Substrings

LAB-PRAC-08_ARR-STR

Clash of the Substrings [20 marks]

Problem Statement

You will be given two strings str1 and str2 in two lines of the input. Both strings will contain less than or equal to 999 characters. You have to print the maximum length of a substring of str1 which is also a substring of str2. If there is no non-trivial substring of str1 which is also a substring of str2, print "0" (without quotes) as your output.

The name of this problem is a play on the movie "Clash of the Titans" which is based on Greek mythology.

Caution

1. There is only one line in your output.

HINTS:

1. The string.h library provides the strlen function to calculate the length of a string and the strstr function to find the occurrence of substrings in a given string. However, you need to be able to manipulate pointers to use strstr.
 2. This question can be solved without using pointers as well.
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EXAMPLE 1:

INPUT

ESC101 is a course on programming

Mr C teaches ESC101

OUTPUT:

6

Explanation: The largest substring common to both strings is "ESC101" (without quotes)

EXAMPLE 2:

INPUT

ESC101 is a course on programming

Mr C teaches ESC101 which is a course on programming

OUTPUT:

27

Explanation: The largest substring common to both strings is " is a course on programming" (without quotes)

Grading Scheme:

Total marks: **[20 Points]**

There will be no partial grading in this question. An exact match will receive full marks whereas an incomplete match will receive 0 points. Please be careful of missing/extra spaces and missing/lines (take help of visible test cases). Each visible test case is worth 2 points and each hidden test case is worth 4 points. There are 2 visible and 4 hidden test cases.

 **Start Solving! (/editor/practice/6173)**