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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_CONDLLOOPS
-  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

Personalizing Emails

LAB-PRAC-08_ARR-STR

Personalizing Emails [20 marks]

Problem Statement

I wish to write an email to the entire ESC101 class but I want to personalize it. In the first line of the input, you will be given a message string which will contain only printable characters and spaces/tabs (but no new lines obviously). In the second line of the input, you will be given the name of a student. The message string will contain no more than 999 characters and the name string will contain no more than 99 characters.

The message string may contain the substring "#NAME#" (without quotes). You have to replace all occurrences of this substring in the message string with the name string which you were given in the second line (see example below).

In the first line of the output, print the new message string. In the second line of the output, print how many times does the substring #NAME# appear in the message. If the substring #NAME# does not appear in the message string at all, just print the original message string in the first line and "0" (without quotes) in the second line.

Caution

1. Be careful about extra/missing lines and extra/missing spaces 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.

EXAMPLE 1:

INPUT

Hello #NAME#, Welcome to ESC101
Mr C

OUTPUT:

Hello Mr C, Welcome to ESC101
1

EXAMPLE 2:

INPUT

Hello John, Welcome to ESC101
Mr C

OUTPUT:

Hello John, Welcome to ESC101
0

Grading Scheme:

Total marks: **[20 Points]**

There will be partial grading in this question. There are two lines in your output. Printing each line correctly, in the correct order, carries some weightage. The first line carries 75% weightage and the second line carries 25% weightage. 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.

Please remember, however, that when you press Submit/Evaluate, you will get a green bar only if all parts of your answer are correct. Thus, if your answer is only partly correct, Prutor will say that you have not passed that test case completely, but when we do autograding afterwards, you will get partial marks.

 **Start Solving! (/editor/practice/6174)**