Searching for Patterns | Set 4 (A Naive Pattern Searching Question)

July 27, 2011

18 Comments | Filed under Strings

Question: We have discussed Naive String matching algorithm here. Consider a situation where all characters of pattern are different.

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Searching for Patterns | Set 3 (Rabin-Karp Algorithm)

May 18, 2011

27 Comments | Filed under Strings

Given a text txt[0..n-1] and a pattern pat[0..m-1], write a function search(char pat[], char txt[]) that prints all occurrences of pat[] in txt[]. You may assume that n > m.

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Searching for Patterns | Set 2 (KMP Algorithm)

April 3, 2011

60 Comments | Filed under Strings

Given a text txt[0..n-1] and a pattern pat[0..m-1], write a function search(char pat[], char txt[]) that prints all occurrences of pat[] in txt[]. You may assume that n > m.

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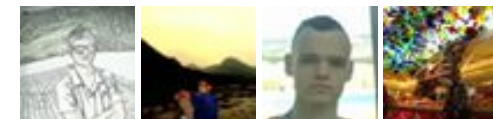
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Searching for Patterns | Set 1 (Naive Pattern Searching)

April 1, 2011

14 Comments | Filed under Strings

Given a text txt[0..n-1] and a pattern pat[0..m-1], write a function search(char pat[], char txt[]) that prints all occurrences of pat[] in txt[]. You may assume that n > m.

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Find the smallest window in a string containing all characters of another string

March 9, 2011

69 Comments | Filed under Strings

Given two strings string1 and string2, find the smallest substring in string1 containing all characters of string2 efficiently.

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Run Length Encoding

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Given an input string, write a function that returns the Run Length Encoded string for the input string.

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Reverse words in a given string

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Example: Let the input string be "i like this program very much". The function should change the string to "much very program this like i"

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Print list items containing all characters of a given word

April 2, 2010

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There is a list of items. Given a specific word, e.g., "sun", print out all the items in list which contain all the characters of "sum"

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Given a string, find its first non-repeating character

September 16, 2009

82 Comments | Filed under Strings

Given a string, find the first non-repeating character in it. For example, if the input string is "GeeksforGeeks", then output should be 'f' and if input string is "GeeksQuiz", then output should be 'G'.

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Divide a string in N equal parts

September 9, 2009

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Difficulty Level: Rookie Question: Write a program to print N equal parts of a given string.

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Write a C program to print all permutations of a given string

August 2, 2009

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A permutation, also called an "arrangement number" or "order," is a rearrangement of the elements of an ordered list S into a one-to-one correspondence with S itself. A string of length n has n! permutation.

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Print reverse of a string using recursion

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Write a recursive C function to print reverse of a given string.

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A Program to check if strings are rotations of each other or not

May 26, 2009

49 Comments | Filed under Strings

Given a string s1 and a string s2, write a snippet to say whether s2 is a rotation of s1 using only one call to strstr routine? (eg given s1 = ABCD and s2 = CDAB, return true, given s1 = ABCD, and s2 = ACBD , return false) Algorithm: areRotations(str1, str2) 1. Create a […]

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Remove characters from the first string which are present in the second string

May 23, 2009

24 Comments | Filed under Strings

Write an efficient C function that takes two strings as arguments and removes the characters from first string which are present in second string (mask string). Algorithm: Let first input string be"test string" and the string which has characters to be removed from first string be "mask" 1: Initialize: res_ind = 0 /* index to […]

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