

Department of Computer Science
NIT Calicut
CS2093 Hardware Laboratory
Winter Semester 2017-2018

Assignment set5: Advanced String Handling

Instructions

1. All the assignments should be submitted through Eduserver.
2. Pen drives are not permitted inside the lab.
3. Practice problems will not be evaluated.

Practice Problem

1. Write a NASM program to count substrings with same first and last characters.
2. Write a NASM program to read a sentence and print the sentence with words sorted in lexicographic (i.e., dictionary) order.
Example: 'This is my first program in hardware lab' should be printed as 'first hardware in is lab my program this'.
3. Write a program to read a sentence with n words, interchange 1st and nth words, 2nd and n-1th word etc..
Example: input: country my is india, Output :India is my country
4. Find the Length of the Longest Repeating Sequence in a String
5. Program to Remove given Word from a String
6. Write a program to check if a String contains another String. The program takes two strings as the input and returns the index where the second string is found. If the target string cannot be found, then return -1. (eg: str1-abcdef str2- cd output: 2) assume index starts from 0.

Assignment problem

1. Given a string containing alphabets in lower-case and upper-case, find the maximum count of distinct lower-case alphabets present between two upper-case alphabets
2. Given a string of alphanumeric characters find whether the string has a palindrome sub string init
ex: Ars12321sss, ans : yes and s12321s
3. Write a program to read a string and reverse words in a string
Ex: Input : "This is a String", Output: "String a is This"
4. Write a Program to Find the Largest and Smallest Word in a String
5. Write a Program to Search a Word in a string & Replace it with another Specified Word