NATIONAL INSTITUTE OF TECHNOLOGY CALICUT
Department of Computer Science & Engineering

CS 2093 : HARDWARE LABORATORY
(Winter 2017-2018)

Assignment set 5 -Advanced String Handling

Instructions

1. All the assignments should be submitted through Eduserver.

2. Pendrives are not permitted inside the lab.

3. Practice problems will not be evaluated.

Practice Problems

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:
   input: This is my first program in hardware lab
   output : 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 the 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. (Assume index starts from 0.)
   Example:
   input : str1-abcdef str2- cd
   output: 2

Assignment Problems

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 in it. Example:
input: Ars12321sss
output : yes , Palindrome is s12321s

3. Write a program to read a string and reverse words in a string.
Example:
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.