CS 101 Introduction to ComputING

Section G

Assignment 7 – WRITING C++ functions AND STRINGS

DUE: 25th NOVEMBER, 2014.

**PROBLEM 1**

Input multiple text strings from the user using getline function and store them as an array of strings.

**PROBLEM 2**

Write a function to swap two strings in an array of strings WITHOUT using an additional string. For example:

WordList = “Hello”, “this”, “is”, “such”, “a”, “nice”, “morning”.

Swap(WordList1,4,6) should change the WordList to: “Hello”, “this”, “is”, “such”, “morning”, “nice”, “a”.

NOTE: you are not allowed to use an additional string for swapping items

**PROBLEM 3**

Write a function called matchPattern, which searches for a substring in the array of strings of problem 2 and returns all the row numbers and beginning indices of the matched substring. The indices should be stored in two different arrays. One for word number and the other for index within the word. For example, given

WordList = “Hello”, “this”, “is”, “such”, “a”, “nice”, “morning”.

When the matchPattern function is called with input substring ‘is’, it should fill two arrays, one for row number and one for starting index of the array. The matched word array should be: {1,2} and the matched index array should be: {2,0}.

**YOU HAVE TO SUBMIT**

One header file that has all the function prototypes and one .cpp file that has all the function implementations. Your main function should implement a menu system that has one option for each problem.

Place all the source files and the .exe file in one folder and name it your roll number and submit it on xeon.