Foundations & Data Structures With C++

Assignment 6 – Strings & Arrays

1. Given two strings check if they are permutations of each other.
2. Reverse a string keeping the words intact.

   For e.g. Input : “Welcome to Coding Ninjas”
   Output : “Ninjas Coding to Welcome”

   Use **cin.getline(str, len)** to take the input.
3. Reverse all the words in a String.

   For e.g. Input : “Welcome to Coding Ninjas”
   Output : “emoclew ot gnidoC sajniN”
4. Given two strings **S** and **T**, write a function to find if **T** is present inside **S**. If found, return the starting position.
   For eg. Input : **S** - “WelcomeBack” and **T** - “come”
   Output : 3
5. Write a program to convert a string to lower case.
6. Given a string rotate it by n characters. For e.g. if the string is “CodingNinjas” and n = 3 then the output should be “jasCodingNin”.
7. Implement strcmp function. i.e. given two strings check if the first one is greater, equal or smaller than the second one.
   Return +1 in case first string is greater, 0 in case they are equal, -1 in case first string is smaller. String comparison isn’t based on length, it is based on dictionary order. For eg. “abcde” is smaller than “xy”.
8. Write a function to remove all occurrences of a given character from the string. For e.g. if the input string is “welcome to coding ninjas” and character to be removed is ‘o’ then the string should be changed to “welcme t cding ninjas”.
9. Given a 2D array of size n x n, where every row and column is sorted in increasing order. Given a number x, check whether this x is present in the given array.