Assignment : Arrays and Strings

1. Reverse each word of a String. Eg "Welcome to Coding Blocks" reversed is – "emocleW gnidoC ot skcolB"

2. Reverse String word wise. Eg "Welcome to Coding Blocks" reversed is – "Blocks Coding to Welcome"

3. Find minimum length word in a string.

4. Take a String input from user and print the String without printing the consecutive duplicates For example, for input "aabccba" print "abcba"

5. Write code to do basic string compression. e.g. Given aaabbccds print out a3b2c2ds.

6. Given a string, find largest substring with no repetition i.e all unique characters. E.g - for string "abcdabceb" , answer will be "dabce"

7. Given two arrays, find maximum sum path passing through their intersection.

8. A sorted array has been rotated by some number k in clockwise direction. Find k. E.g. Input: 5,6,1,2,3,4 Output: 2
(Hint : Instead of complete scan try thinking of something similar to binary search)

9. Write a program to multiply 2D arrays A and B of dimensions NxL and LxM respectively.

10. Rotate a 2D matrix by 90 degrees clockwise

E.g - Consider Array

1   2   3

4   5   6

7   8   9

After rotating 90 degrees clockwise it will be -

7　4　1

8　5　2

9　6　3