



Assignment 5 – Strings and 2D Arrays

1. Take a String input from user and return a String that does not contain consecutive duplicates. For example, for input "aabccbad" return "abcba" .
2. Return highest occurring character in the String.
3. Sort an array of Strings based on length.
4. Reverse each word of a String. Eg "Welcome to Coding Ninjas" reversed is – "emocleW ot gnidoC sajniN"
5. Reverse String word wise. Eg "Welcome to Coding Ninjas" reversed is – "Ninajs Coding to Welcome"
6. Write code to do basic string compression. e.g. Given aaabbccds print out a3b2c2ds.
7. Given a string, find largest substring with no repetition i.e all unique characters. E.g - for string "abcdabceb" , answer will be "dabce"
8. Write a program to multiply 2D arrays A and B of dimensions NxL and LxM respectively.
9. 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
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