

# Problems based on Recursion – 7

## Assignment Questions



**Q1 – Given a string, remove adjacent duplicates characters from it. In other words, remove all consecutive same characters except one using recursion.**

(Easy)

**Input:** aabbbbcbdd

**Output:** abcd

**Input 2:** abbcddaaaerr

**Output 2:** abcd aer

**Q2 – Write a recursive program to efficiently print the reverse of a given string in C++.**

(Easy)

**Input 1:** "collegewallah"

**Output 1:** "hallawegello"

**Input 2:** "pwwskills"

**Output2:** "sllikswp"

**Q3 – Given a string, check if it is a rotated palindrome or not using recursion. "baabcc" is a rotated palindrome as it is a rotation of palindrome "abccba".**

(Medium)

**Input 1:** cbaabcd

**Output 1:** yes

**Explanation :** if we rotate this string 3 times it will turn out to be abcdcba which is a palindrome.

**Input 2 :** abcdedca

**Output 2 :** no

**Q4 – Write a program to merge 2 strings alternately using recursion.**

(Medium)

**Input1:**

abcd

efgh

**Output1:**

aebfcgdh

**Input2:**

abet

po

**Output2:**

apboet