

Strings - Handling strings and common string functions

Functions - parameter passing, return

1. Count Vowels and Consonants

Problem:

Write a Java program to count the number of vowels and consonants in a given string.

2. Reverse a String

Problem:

Write a Java program to reverse a given string without using any built-in reverse functions.

3. Palindrome String Check

Problem:

Write a Java program to check if a given string is a palindrome (a string that reads the same forward and backward).

4. Remove Duplicates from a String

Problem:

Write a Java program to remove all duplicate characters from a given string and return the modified string.

5. Find the Longest Word in a Sentence

Problem:

Write a Java program that takes a sentence as input and returns the longest word in the sentence.

6. Find Substring Occurrences

Problem:

Write a Java program to count how many times a given substring occurs in a string.

7. Toggle Case of Characters

Problem:

Write a Java program to toggle the case of each character in a given string. Convert uppercase letters to lowercase and vice versa.

8. Compare Two Strings

Problem:

Write a Java program to compare two strings lexicographically (dictionary order) without using built-in compare methods.

Example Input:

String 1: "apple"

String 2: "banana"

Expected Output:

"apple" comes before "banana" in lexicographical order

9. Find the Most Frequent Character

Problem:

Write a Java program to find the most frequent character in a string.

Example Input:

String: "success"

Expected Output:

Most Frequent Character: 's'

10. Remove a Specific Character from a String

Problem:

Write a Java program to remove all occurrences of a specific character from a string.

Example Input:

String: "Hello World"

Character to Remove: 'l'

Expected Output:

Modified String: "Heo Word"

11. Write a Java program that accepts two strings from the user and checks if the two strings are anagrams of each other (i.e., whether they contain the same characters in any order).

12. Write a replace method in Java that replaces a given word with another word in a sentence: