**1. Reverse a String**

* **Problem**: Write a function to reverse a given string without using built-in functions.
* **Example**:

Input: "hello"

Output: "olleh"

**2. Check for Anagrams**

* **Problem**: Write a function to check if two strings are anagrams of each other. An anagram has the same characters in different orders.
* **Example**:

Input: "listen", "silent"

Output: true

Static boolean checkAnagram(String s1,String s2){ }

**3. Count Vowels and Consonants**

* **Problem**: Write a function that counts the number of vowels and consonants in a given string.
* **Example**:

Input: "hello"

Output: Vowels = 2, Consonants = 3

**4. Palindrome Check**

* **Problem**: Check if a string is a palindrome (reads the same backward as forward).
* **Example**:

Input: "madam"

Output: true

**5. Find First Non-Repeating Character**

* **Problem**: Write a function to find the first non-repeating character in a string.
* **Example**:

Input: "swiss"

Output: 'w'

**6. Reverse Words in a Sentence**

* **Problem**: Given a sentence, reverse the order of words, but keep the characters in each word as they are.
* **Example**:

Input: "Hello World"

Output: "World Hello"

**7. Remove Duplicates**

* **Problem**: Write a function that removes duplicate characters from a string, maintaining the order of first occurrences.
* **Example**:

Input: "programming"

Output: "progamin"

**8. Count and Compress Repeated Characters**

* **Problem**: Compress a string by replacing consecutive identical characters with the character followed by the count. If the "compressed" string is not shorter, return the original string.
* **Example**:

Input: "aabcccccaaa"

Output: "a2b1c5a3"

**9. Longest Substring Without Repeating Characters**

* **Problem**: Write a function to find the longest substring in a string that doesn’t contain any repeating characters.
* **Example**:

Input: "abcabcbb"

Output: 3 ("abc")

**10. Check if Strings are Rotations of Each Other**

* **Problem**: Check if one string is a rotation of another.
* **Example**:

Input: "waterbottle", "erbottlewat"

Output: true

**11. Permutations of a String**

* **Problem**: Generate all permutations of a given string.
* **Example**:

Input: "abc"

Output: ["abc", "acb", "bac", "bca", "cab", "cba"]

**12. Find All Substrings**

* **Problem**: Write a function to print all possible substrings of a given string.
* **Example**:

Input: "abc"

Output: "a", "ab", "abc", "b", "bc", "c"

**13. Longest Palindromic Substring**

* **Problem**: Find the longest palindromic substring in a given string.
* **Example**:

Input: "babad"

Output: "bab" or "aba"

**14. Remove a Specific Character**

* **Problem**: Write a function to remove all instances of a specified character from a string.
* **Example**:

Input: "hello world", char = 'l'

Output: "heo word"

**15. Find the Most Frequent Character**

* **Problem**: Find the character that appears the most in a string.
* **Example**:

Input: "sample string"

Output: 's' (or another character if frequency matches)