

1. Write a program in C to find the length of a string without using library function
2. Write a program in C to separate the individual characters from a string.
3. Write a program in C to print individual characters of string in reverse order.
4. Write a program in C to count the total number of words in a string.
Input the string : This is ADAM

Expected Output :

Total number of words in the string is : 3

5. Write a program in C to compare two strings without using string library functions.

Test Data :

Check the length of two strings:

Input the 1st string : aabbcc

Input the 2nd string : abcdef

String1: aabbcc

String2: abcdef

Expected Output : Strings are not equal.

Check the length of two strings:

Input the 1st string : aabbcc

Input the 2nd string : aabbcc

String1: aabbcc

String2: aabbcc

Expected Output : Strings are equal.

6. Write a program in C to count the total number of alphabets, digits, and special characters in a string.

Test Data :

Input the string : Welcome to w3resource.com

Expected Output :

Number of Alphabets in the string is : 21

Number of Digits in the string is : 1

Number of Special characters in the string is : 4

7. Write a program in C to copy one string to another string.
8. Write a program in C to count the total number of vowels or consonants in a string.
9. Write a program in C to find the maximum occurring character in a string.
10. Write a C program to sort a string array in ascending order.
11. Write a program in C to read a string through a keyboard and sort it using bubble sort.

Test Data :

Input number of strings :3

Input string 3 :

zero

one

two

Expected Output :

The strings appears after sorting :

one

two

zero

12. Write a program in C to extract a substring from a given string
13. Write a C program to check whether a given substring is present in the given string.
14. Write a program in C to read a sentence and replace lowercase characters by uppercase and vice-versa
15. Write a program in C to find the number of times a given word 'the' appears in the given string.
16. Write a program in C to remove characters in String Except Alphabets

Test Data :

Input the string : google.com

Expected Output :

After removing the Output String : googlecom

17. Write a program in C to Find the Frequency of Characters

18. Write a program in C to Concatenate Two Strings Manually.
19. Write a program in C to find the largest and smallest word in a string.
20. Write a program in C to convert a string to lowercase
21. Write a program in C to check whether a character is Hexadecimal Digit or not. Use function `isxdigit (TestChar)`

Test Data :

Input a character : 7

Expected Output :

The entered character is a hexadecimal digit.

Implementation of hexadecimal.

```
void checkHex(string s)
{
    // Size of string
    int n = s.length();

    // Iterate over string
    for(int i = 0; i < n; i++)
    {
        char ch = s[i];

        // Check if the character
        // is invalid
        if ((ch < '0' || ch > '9') &&
            (ch < 'A' || ch > 'F'))
        {
            cout << "No" << endl;
            return;
        }
    }

    // Print true if all
    // characters are valid
    cout << "Yes" << endl;
}

// Driver code
```

```

int main()
{

    // Given string
    string s = "BF57C";

    // Function call
    checkHex(s);

    return 0;
}

```

22. Write a program in C to replace the spaces of a string with a specific character.

Test Data :

*Input a string : Be glad to see the back of Input replace character : **

Expected Output :

*After replacing the space with * the new string is :*

*Be*glad*to*see*the*back*of**

23. Write a program in C to count the number of punctuation characters that exists in a string.

Test Data :

Input a string : The quick brown fox, jumps over the, lazy dog.

Expected Output :

The punctuation characters exists in the string is : 3

24. Write a program in C to read a file and remove the spaces between two words of its content.
25. Write a program in C to check whether a character is digit or not.
26. Write a C programming to find the repeated character in a given string.

Test Data:

Input a string: rover

Expected Output:

Input a string: The first repetitive character is: r

27. Write a C programming to count each character in a given string.

Enter a string: The count of each character in the string rovere is

r	2
o	1
v	1
e	2

28. Write a C programming to find the length of the longest substring of a given string without repeating characters.

Input a string: "abcddefffd"

Expected Output:

Input a string: Length of the longest substring without repeating characters: 4

29. A given string contains the bracket characters '(', ')', '{', '}', '<', '>', '[' and ']', Write a C programme to check the said string is valid or not. The input string will be valid when open brackets and closed brackets are same type of brackets

Input a string: <>()[]{}

Expected Output:

Check bracket in the said string is valid or not? 1

30. Write a C programming to reverse all the vowels present in a given string. Return the new string.

Input a string: "AEIou"

Expected Output:

Input a string: Check bracket in the said string is valid or not? "uoIEA"

