# Practice problems for String:

1. Write a program in C++ to input a string and print it.

Test Data:

Input the string: Welcome, w3resource

Expected Output:

The string you entered is: Welcome, w3resource

2. Write a program in C++ to find the length of a string without using library function.

Test Data:

Input the string: w3resource.com

Expected Output:

Length of the string is: 15

3. Write a program in C++ to separate the individual characters from a string.

Test Data:

Input the string: w3resource.com

Expected Output:

The characters of the string are:

w 3 r e s o u r c e . c o m

4. Write a program in C++ to print individual characters of string in reverse order.

Test Data:

Input the string: w3resource.co

Expected Output:

The characters of the string in reverse are:

m o c . e c r u o s e r 3 w

5. Write a program in C++ to count the total number of words in a string.

Test Data:

Input the string: This is w3resource.com

Expected Output:

Total number of words in the string is: 3

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

Test Data:

Check the length of two strings:

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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:

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Input the 1st string: aabbcc

Input the 2nd string: aabbcc

String1: aabbcc

String2: aabbcc

Expected Output: Strings are equal.

7. Write a program in C++ to count 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

8. Write a program in C++ to copy one string to another string.

Test Data:

Input the string: This is a string to be copied.

Expected Output:

The First string is: This is a string to be copied.

The Second string is: This is a string to be copied.

Number of characters copied: 31

9. Write a program in C++ to count total number of vowel or consonant in a string.

Test Data:

Input the string: Welcome to w3resource.com

Expected Output:

The total number of vowel in the string is: 9

The total number of consonant in the string is: 12

10. Write a program in C++ to find maximum occurring character in a string.

Test Data:

Input the string: Welcome to w3resource.com.

Expected Output:

The Highest frequency of character 'e'

appears number of times: 4

11. Write a C program to sort a string array in ascending order.

Test Data:

Input the string: w3resource

Expected Output:

After sorting the string appears like:

3ceeorrsuw

12. Write a program in C++ to read a string through 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

13. Write a program in C++ to extract a substring from a given string.

Test Data:

Input the string: this is test string

Input the position to start extraction:9

Input the length of substring:4

Expected Output:

The substring retrieve from the string is: " test "

14. Write a C program to check whether a given substring is present in the given string.

Test Data:

Input the string: This is a test string.

Input the substring to be search: search

Expected Output:

The substring is not exists in the string.

15. Write a program in C++ to read a sentence and replace lowercase characters by uppercase and vice-versa.

Test Data:

Input the string: This Is A Test String.

Expected Output:

The given sentence is  : This Is A Test String.

After Case changed the string  is: tHIS iS a tEST sTRING

16. Write a program in C++ to find the number of times a given word 'the' appears in the given string.

Test Data:

Input the string: The string where the word the present more than once.

Expected Output:

The frequency of the word 'the' is: 3

17. Write a program in C++ to remove characters in String Except Alphabets.

Test Data:

Input the string: w3resource.com

Expected Output:

After removing the Output String: wresourcecom

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

Test Data:

Input the string: This is a test string

Input the character to find frequency: i

Expected Output

The frequency of 'i' is: 3

19. Write a program in C++ to Concatenate Two Strings Manually.

Test Data:

Input the first string: this is string one

Input the second string: this is string two

Expected Output:

After concatenation the string is:

this is string one this is string two

20. Write a program in C++ to find the largest and smallest word in a string.

Test Data:

Input the string: It is a string with smallest and largest word.

Expected Output:

The largest word is 'smallest'

and the smallest word is 'a'

in the string: 'It is a string with smallest and largest word.'.

21. Write a program in C++ to convert a string to uppercase.

Test Data:

Input a string in lowercase: the quick brown fox jumps over the lazy dog

Expected Output:

Here is the above string in UPPERCASE:

THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG.

22. Write a program in C++ to convert a string to lowercase.

Test Data:

Input a string in UPPERCASE: THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG.

Expected Output:

Here is the above string in lowercase:

the quick brown fox jumps over the lazy dog.

23. Write a program in C++ to check whether a character is Hexadecimal Digit or not.

Test Data:

Input a character: 7

Expected Output:

The entered character is a hexadecimal digit.

24. Write a program in C++ to check whether a letter is uppercase or not.

Test Data:

Input a character: p

Expected Output:

The entered letter is not an UPPERCASE letter.

25. 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*

26. Write a program in C++ to count the number of punctuation characters 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

27. Write a program in C++ to print only the string before new line character.

Note: isprint() will only print line one, because the newline character is not printable.

Expected Output:

The quick brown fox

28. Write a program in C++ to check whether a letter is lowercase or not.

Test Data:

Input a character: w

Expected Output:

The entered letter is a lowercase letter.

29. Write a program in C++ to read a file and remove the spaces between two words of its content.

Expected Output:

The content of the file is:

The quick brown fox jumps over the lazy dog

After removing the spaces the content is:

Thequickbrownfoxjumpsoverthelazydog

30. Write a program in C++ to check whether a character is digit or not.

Test Data:

Input a character: 8

Expected Output:

The entered character is a digit.

31. Write a program in C++ to split string by space into words.

Test Data:

Input a string: this is a test string

Expected Output:

Strings or words after split by space are:

this

is

a

test

string .

32. Write a C programming to find the repeated character in a given string.

Test Data:

Input a string: w3resource

Expected Output:

Input a string: The first repetitive character in w3resource is: r

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

Test Data:

Input a string: w3resource

Expected Output:

Enter a str1ing: The count of each character in the string w3resource is

w 1

3 1

r 2

e 2

s 1

o 1

u 1

c 1

34. Write a C programming to convert vowels into upper case character in a given string.

Test Data:

Input a string: w3resource

Expected Output:

Input a sentence: The original string:

w3resource

After converting vowels into upper case the sentence becomes:

w3rEsOUrcE