**Operations on string**

**https://www.sitesbay.com/cpp-program/cpp-find-length-of-string**

**https://www.w3resource.com/cpp-exercises/string/index.php**

**1.** Write a C++ program to reverse a given string.   
Example:  
Sample Input: w3resource  
Sample Output: ecruoser3w

**2.** Write a C++ program to change every letter in a given string with the letter following it in the alphabet (ie. a becomes b, p becomes q, z becomes a).   
Example:  
Sample Input: w3resource  
Sample Output: x3sftpvsdf

**3.** Write a C++ program to capitalize the first letter of each word of a given string. Words must be separated by only one space.   
Example:  
Sample Input: cpp string exercises  
Sample Output: Cpp String Exercises

**4.**Write a C++ program to find the largest word in a given string.   
Example:  
Sample Input: C++ is a general-purpose programming language.  
Sample Output: programming

**5.** Write a C++ program to sort characters (numbers and punctuation symbols are not included) in a string.   
Example:  
Sample Input: python  
Sample Output: hnopty

**6.** Write a C++ program to check whether the characters e and g are separated by exactly 2 places anywhere in a given string at least once.   
+ Example:  
Sample Input: eagerer  
Sample Output: eagerer -> 1

**7.** Write a C++ program to count all the vowels in a given string.   
Example:  
Sample Input: eagerer  
Sample output: number of vowels -> 4

**8.** Write a C++ program to count all the words in a given string.   
Example:  
Sample Input: Python  
Sample Output: number of words -> 1

**9.** Write a C++ program to check whether two characters present equally in a given string.   
Example:  
Sample Input: aabcdeef  
Sample Output: True

**10.** Write a C++ program to check if a given string is a Palindrome or not.   
A palindrome is a word, number, phrase, or other sequence of characters which reads the same backward as forward, such as madam, racecar.  
Example:  
Sample Input: madam  
Sample Output: True

**11.** Write a C++ program to find a word in a given string which has the highest number of repeated letters.   
Example:  
Sample Input: Print a welcome text in a separate line.  
Sample Output: Word which has the highest number of repeated letters. separate

**12.** Write a C++ program to insert a dash character (-) between two odd numbers in a given string of numbers.   
Example:  
Sample Input: 1345789  
Sample Output: Result-> 1-345-789

**13.** Write a C++ program to change the case (lower to upper and upper to lower cases) of each character of a given string.   
Example:  
Sample Input: Pythpn  
Sample Output: pYTHON

**14.** Write a C++ program to find the numbers in a given string and calculate the sum of all numbers.   
Example:  
Sample Input: w3resource from 2008  
Sample Output: Sum of the numbers: 2011

**15.** Write a C++ program to convert a givern non-negative integer to english words.   
Example:  
Sample Input: 12  
Sample Output: Twelve  
Sample Input: 29  
Sample Output: Twenty Nine

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