**ASSIGNMENTS-1 OF STRING**

1. Write a C++ program to reverse a given string.  
   Example:  
   Sample Input: Cybrom  
   Sample Output: morbyC
2. Write a C++ program to change only every letter in a given string with the letter following it in the alphabet (i.e. a becomes b, p becomes q, z becomes a).  
   Example:  
   Sample Input: cybrom  
   Sample Output: dzcspn
3. Write a C++ program to capitalize the first letter of each word in a given string.  
   Example:  
   Sample Input: cybrom pvt ltd  
   Sample Output: Cybrom Pvt Ltd
4. Write a C++ program to find the largest word in a given string.  
   Example:  
   Sample Input: C++ is a [programming language](https://www.w3resource.com/cpp-exercises/string/index.php).  
   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:DSA  
Sample Output: number of words -> 1

**9.** Write a C++ program to check whether two characters appear 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 that 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 in a given string.  
Example:  
Sample Input: [Pythpn](https://www.w3resource.com/cpp-exercises/string/index.php)  
Sample Output: [pYTHON](https://www.w3resource.com/cpp-exercises/string/index.php)

**14.** Write a C++ program to find the numbers in a given string and calculate the sum of all numbers.  
Example:  
Sample Input: Cy3brom from 2008  
Sample Output: Sum of the numbers: 2011

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

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