

## Logic Building Assignment 2

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# **Logic Building Assignment Part 2**

### **Problems on Strings**

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1. Write a program which accept sentence from user and print that sentence.

Input : My name is

Output : My name is

2. Write a program which accepts a string from user which contains a characters from 'b' to 'y'.

Input : mn jn kn kazfd

Output : mn jn kn k

3. Write a program which accept sentence from user and print number of small letters, capital letters and digits from that sentence.

Input : abcDE 5Glm1 O

Output : Small:5 Capital: 4 Digits: 2

4. Write a program which accept sentence from user and print length of that sentence (Implement strlen()).

Input : India is my

Output : 11

5. Write a program which accept sentence from user and print number of white spaces from that sentence.

Input : In my company

Output : 2

6. Write a program which accept sentence from user and print number of words from that sentence.

Input : In my company

Output : 3

7. Write a program which accept sentence from user and print number of words of even and odd length from that sentence.

Input : In my company

Output : Even: 2 Odd:1

8. Write a program which accept sentence from user and print last word from that sentence.

Input : In my company

Output : company

9. Write a program which accept sentence from user and position from user and print the word at that position.

Input : is my he she 3

Output : he

10. Write a program to convert the string from upper case to lower case (Implement strlwr()).

Input : DevIce DriVer

Output : device driver

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11. Write a program to convert the string from lower case to upper case (Implement `strupr()`).

Input : DevIce DriVer

Output : DEVICE DRIVER

12. Write a program which toggles the case of a string.

Input : DevIce DriVer

Output : dEViCE dRiVeR

13. Write a program to check whether given strings are Anagram strings or not.

Input : abccd cbcda

Output : Strings are anagram

14. Write a program which accept string from user and copy that string into some another string (Implement `strcpy()`).

15. Write a program which accept string from user and copy first N characters into some destination string (Implement `strncpy()`).

Input : India is my 8

Output : India is

16. Write a program which accept string from user and accept number N then copy last N character into some another string.

Input : India is my 5

Output : is my

17. Write a program which accept two strings from user and append second string after first string (Implement `strcat()`).

Input : FirStr SecStr

Output : FirStrSecStr

18. Write a program which accept two strings from user and append N characters of second string after first string (Implement `strncat()`).

Input : FirStr SecStr 4

Output : FirStrSecS

19. Write a program which accept two strings from user and compare two strings. If both strings are equal then return 0 otherwise return difference between first mismatch character (Implement `strcmp()`).

Input : FirStr FirStr

Output : Both strings are equal.

20. Write a program which accept two strings from user and compare only first N characters of two strings. If both strings are equal till first N characters then return 0 otherwise return difference between first mismatch character (Implement `strncmp()`).

Input : FirStr FirNew 3

Output : Both strings are equal.

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21. Write a program which accept two strings from user and compare two strings without case sensitivity. If both strings are equal then return 0 otherwise return difference between first mismatch character (Implement stricmp()).

Input : FirStr FIRStR

Output : Both strings are equal.

22. Write a program which accept string from user and then reverse the string without taking another string (Implement strrev()).

Input : Hello World

Output : dlroW olleH

23. Write a program which accept string from user and then reverse the string till first N characters without taking another string.

Input : Hello World 5

Output : olleH World

24. Write a program which accept string from user and then reverse the string till last N characters without taking another string.

Input : Hello World 5

Output : Hello dlroW

25. Write a program which accept string from user and then accept range and reverse the string in that range without taking another string.

Input : Hello World 3 8

Output : HeoW ollrld

26. Write a program which accept string from user and reverse words from that string.

Input : Hello World

Output : olleH dlroW

27. Write a program which accept string from user and reverse words from that string which are of even length.

Input : New HO abcd can

Output : New OH dcba can

28. Write a program which accept string from user and check whether string is palindrome or not.

Input : level

Output : String is palindrome.

29. Write a program which sets all characters in string to a specific character (Implement strset()).

Input : HelloWorld a

Output : aaaaaaaaaa

30. Write a program which sets first N characters in string to a specific character (Implement strnset()).

Input : HelloWorld a 8

Output : aaaaaaaald

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31. Write a program which sets first N characters in string to a specific character  
Input : HelloWorld a 8                      Output : Heaaaaaaaa

32. Write a program which accept string from user and search first occurrence of specific character in string and return the position at which character is found (Implement strchr()).

Input : India is my country. M Output : Character m is found at position 1

33. Write a program which accept string from user and search last occurrence of specific character in string and return the position at which character is found (Implement strrchr()).

Input : India is my country. n Output : Character m is found at position 1