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## ASSIGNMENT 6: Strings

1. Write a program to demonstrate use of string library functions.

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|-------------|--------------|--------------|
| a. strlen() | e. stricmp() | i. strncpy() |
| b. strcpy() | f. strrev()  | j. strncat() |
| c. strcat() | g. strchr()  | k. strncmp() |
| d. strcmp() | h. strstr()  | l. strtok()  |

2. Write a program to simulate the following library function.

- size\_t strlen(const char\* str);
  - char\* strcpy(char \*dest, const char \*src);
  - char\* strcat(char \*dest, const char \*src);
  - int strcmp(const char \*str1, const char \*str2);
  - int stricmp(const char \*str1, const char \*str2);
  - char\* strrev(char\* str);
  - char\* strchr(const char \*str, int ch);
  - char\* strstr(const char \*str, const char \*substr);
- Write a function to remove all occurrences of given character from the string.
  - Write a function to remove all occurrences of any character in string1 from the string2.
  - Write a function to convert a string of digits into its numeric equivalent i.e. simulate atoi().  
int atoi(const char\* string);
  - Write a function to which accepts a number, base and character pointer and converts number to a string i.e. simulate itoa().  
char\* itoa(int value, char \*string, int base);
  - Write a function to convert a number to its roman equivalent. Also write a function to convert a roman number to decimal equivalent.

8. Write a function to print a given number in words.

9. Write a function to find and replace a string using library functions [strstr(), strncpy(), strlen(), strcat(), strcpy(), etc.].

**Input :**

**Source :** This is test time

**Find :** is

**Replace:** was

**Output:**

Thwas was test time

10. Write a function to find and replace a string without using library functions.

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