PRACTISE PROBLEMS - STRING

Write a function to count number of occurrences of a character in a string;

* Write the strtok() function.

* Write a function which finds the longest possible subsequence of one string into another and returns the length + pointer to the subsequence.

For example, if the input is "abcdemnopxyz" and "mnotq" then "mno" is the longest subsequence of "mnotq" occuring in "abcdemnopxyz", so the function returns 3 and a pointer to "mno" inside "abcdemnopxyz"

* Write a function to find gcd() of 2 numbers. (See Dromey for this, after you have tried your bit)

* Write a function to find lcm() of 2 numbers.

* Write a function to convert a decimal number to a binary number and return the binary representation in a string.

* Write your own code for following library functions:

strcasecmp strsep strcasecmp strcoll

* What are wide characters? Write a sample code using wcscmp function. (You have to read wide character strings and then call wcscmp function)

*****REQUIRES MATH.H LIBRARY*****

* Write following functions: sine, sine-inverse, cosine, cosine-inverse. Then using sine and cosine, write tan() function. Check whether calling sine(sine-inverse(x)) on your own functions gives you x.

*Write a program to reverse the digits of an integer and store the result as another integer.

*Write a program which reads a string and if the string has all digits in it, then derives the integer it represents.

*Write a function which does the following
void rev(char *str);
Reverses the string "str" in place (without using another string).

*Write a function to find lcm of two numbers.

*Write a function which cuts a string given by "str" on the character given in "ch" and returns the first such word.
char *cutonchar(char *str, char ch);
For example: if 'str' is "something bad" and 'ch' is ' ' then it returns "something".
if 'str' is "something bad" and 'ch' is 'e' then it returns 'som'