

C Syntax

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 - Console output
 - File handles
 - File I/O

Character Functions

- Table 10-1
- Table 10-2
- What the functions return, the arguments to pass in, the library it is in

C-Strings

- What the functions return, the arguments to pass in, the library it is in
 - Strlen
 - Strcpy
 - Strncpy
 - Strcat
 - Strncat
 - Strcmp
 - Strstr
 - Atoi
 - Atof
- Reading/writing C-strings
- Initializing C-strings

Random Access Files

- Creating file handles
- File access flags
- Error testing
- File pointer manipulation

Recursion

- Recursion vs. iteration
- Examples

Counting Characters

Write a function to read a file and count the number of uppercase letters, lowercase letters and digits in the file.

Add Spaces

Write a function that takes a C-string (char pointer) as an argument. The C-string is a sentence where all of the words run together (no spaces), but each word is capitalized. Convert the C-string such that there are spaces between each word and only the first word in the sentence is capitalized. NOTE: use of C-string functions is important here!

Example: "It'sDangerousToGoAlone!" becomes "It's dangerous to go alone!"

Palindrome

Write a bool function that uses recursion to determine if a character array argument contains a palindrome. The function should return true if the argument reads the same forward and backward.

Challenge: Ignore punctuation and spaces when determining the palindrome