Assignment #0 - References used

Course: Operating Systems and Networks

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- 1. https://stackoverflow.com/questions/30365443/how-to-read-and-write-files-using-printf-and-scanf-in-c
- 2. https://stackoverflow.com/questions/9653072/return-a-struct-from-a-function-in-c
- 3. https://www.w3schools.com/c/ref_ctype_tolower.php
- 4. https://www.geeksforgeeks.org/c/dup-dup2-linux-system-call/

GPT Prompts used, with outputs:

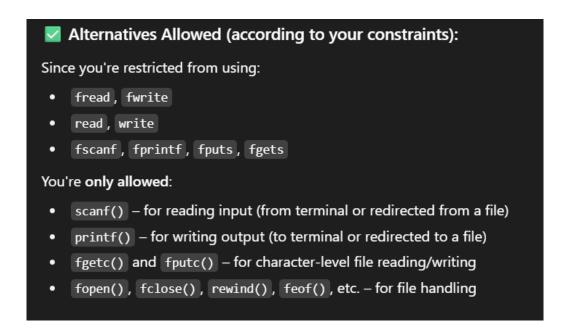
1. "If I read a line like FIRST 5 how do I extract the number out of the string and make it an int. numbers proceed only FIRST LAST and LOG commands"

Output

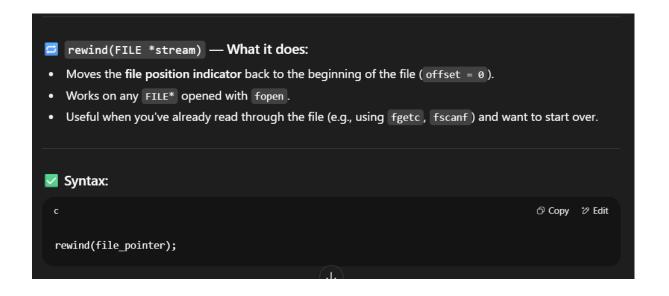
```
str is your input string (e.g., "FIRST 5").
offset is the number of characters to skip before the number (e.g., 6 to skip "FIRST").
%d tells sscanf to parse an integer.
&n stores the extracted number into n.
Example:
c
Copy ½ Edit
char str[] = "FIRST 5";
int n;
sscanf(str + 6, "%d", &n); // n = 5

This is commonly used after verifying the command starts with a known prefix like "FIRST".
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2. "it says dont use fread or fwrite or write or read. Fputc fgetc is also not allowed. list all other alternatives"



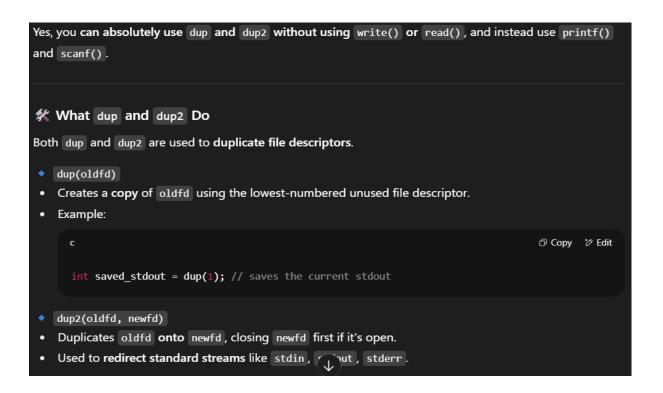
3. "How do I go back to the start of a file once I read through it."



4. "I am running this on WSL (Sublime Editor) This runtime environment causes my output buffer to not be flushed before a fork." —> The fix was to use this syntax to flush the stdout buffer before fork().



5. "Can I use dup and dup2 without having to use write or read system calls? What do these commands do"



6. "similar to fflush for stdout how do i flush stdin after i read from a file using scanf. it seems to be entering an infinite loop on PRINT"

