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lab4.c
            Sun Sep 21 17:25:28 2025
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Lab 04
Compile: gcc -Wall -o lab4 lab4.c
Run: ./lab4 file1 file2
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#define BUFFER_SIZE 1024
int main(int argc, char *argv[]) {
    if (argc != 3) {
       fprintf(stderr, "Usage: %s <file1> <file2>\n", argv[0]);
       return 1;
    if (strcmp(argv[1], argv[2]) == 0) {
        fprintf(stderr, "Error: The two filenames must be different.\n");
        return 1;
    }
    FILE *file1 = fopen(argv[1], "a+");
    if (file1 == NULL) {
        perror("Error opening first file");
        return 1;
    }
    FILE *file2 = fopen(argv[2], "r");
    if (file2 == NULL) {
       perror("Error opening second file");
        fclose(file1);
       return 1;
    }
    fseek(file1, -1, SEEK_END);
    int lastChar = fgetc(file1);
    if (lastChar != '\n' && lastChar != EOF) {
        fputc('\n', file1);
    }
    char buffer[BUFFER_SIZE];
    size_t bytesRead;
    while ((bytesRead = fread(buffer, 1, BUFFER_SIZE, file2)) > 0) {
        fwrite(buffer, 1, bytesRead, file1);
    fclose(file1);
    fclose(file2);
    return 0;
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}