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Lab04/ttbaker_lab4.c
                          Mon Sep 22 02:07:25 2025
CS332 â\200\223 Lab 4
Compile (inside Lab04):
    gcc -Wall -o lab4 ttbaker_lab4.c
Run (inside Lab04):
    ./lab4 planet1 planet2
*/
#include <stdio.h>
#include <stdlib.h>
                    // read, write, close
#include <unistd.h>
                     // open flags
#include <fcntl.h>
#include <string.h>
                     // strcmp
#include <errno.h>
                     // errno, perror
#define BUFSIZE 1024
int main(int argc, char *argv[]) {
    if (argc != 3) {
        fprintf(stderr, "Usage: %s <file1> <file2>\n", argv[0]);
        exit(EXIT_FAILURE);
    char *file1 = argv[1];
    char *file2 = argv[2];
    if (strcmp(file1, file2) == 0) {
        fprintf(stderr, "Error: file1 and file2 must be different.\n");
        exit(EXIT_FAILURE);
    }
    int fd1 = open(file1, O_WRONLY | O_APPEND);
    if (fd1 < 0) {
       perror("Error opening file1");
        exit(EXIT_FAILURE);
    }
    int fd2 = open(file2, O_RDONLY);
    if (fd2 < 0) {
        perror("Error opening file2");
        close(fd1);
        exit(EXIT_FAILURE);
    char buffer[BUFSIZE];
    ssize_t nread;
    while ((nread = read(fd2, buffer, BUFSIZE)) > 0) {
        ssize_t nwritten = write(fd1, buffer, nread);
        if (nwritten != nread) {
            perror("Error writing to file1");
            close(fd1);
            close(fd2);
            exit(EXIT_FAILURE);
        }
    }
    if (nread < 0) {
       perror("Error reading file2");
    close(fd1);
    close(fd2);
    printf("Appended contents of %s to %s successfully.\n", file2, file1);
    return 0;
```

}