Design Document of Dog Program

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Purpose

This program acts similar to cat in unix, short for concatenate, but will process file arguments in reverse order. It will combine files, binary or otherwise with a max size of 32000000 bytes and then either print them out or send to a file that the command line specifies.

dog.c

Global variable char buffer of size 320000 holds the input and output of each file. dog.c loops through arguments in reverse order, from argc -1 to >=1. if argv[i] == '-': it should accept userinput on a loop until end of file. else: then dog.c attempts to open the file, printing error message when it fails. Both user or file input use a function named print_buffer, which intake the file size, and prints to the designated location. Finally, it closes the file and continues the loop

makefile

compiles with these flags: gcc -std=c99 -Wall -Wextra -Wpedantic -Wshadow -g

Handleing input

Run with ./dog input_file ... These will be processed as argunents for my main function and will be loop through in reverse printing each time to a location or printing an error message.