lab1.c

```c
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <stdio.h>
#include <errno.h>
#include <string.h>
#include <stdlib.h>
#include <unistd.h>

int main(int argc, char **argv) {
    int fin;
    int fout;
    int n;
    char buffer[512];
    int ret;

    if(argc != 3) {
        printf("Usage: lab1 infile outfile\n");
        exit(1);
    }

    fin = open(argv[1], O_RDONLY);
    if(fin < 0) {
        printf("Can't open input file: %s\n",strerror(errno));
        exit(1);
    }

    fout = open(argv[2], O_WRONLY | O_CREAT | O_TRUNC, 0777);
    if(fout < 0) {
        printf("Can't open output file: %s\n",strerror(errno));
        exit(1);
    }

    n=1;  // Get the process started
    while(n > 0) {
        n = read(fin, buffer, 512);
        if(n < 0) {
            printf("Error on read: %s\n",strerror(errno));
            exit(1);
        }
        ret = write(fout, buffer, n);
        if(ret < 0) {
            printf("Erroc on write: %s\n",strerror(errno));
            exit(1);
        }
    }

    close(fin);
    close(fout);
    exit(0);
}
```

makefile

```makefile
CFLAGS = -Wall -g

lab1: lab1.o
	cc -o lab1 lab1.o

clean:
	rm lab1 lab1.o
```