

Northern Michigan University (Marquette Co, MI)
CS426-01-26F: Operating Systems
Practice Quiz 3: Thursday 16 September 2026 3:00 P.M. EDT
Time: 15 minutes

Write a complete C program that opens the input file specified in the first argument and the two output files specified in the second and third arguments. Your program should write the first byte to the first output file, the second byte to the second output file, the third to the first output file, the fourth to the second, and so forth, and so on, until all the bytes from the original file have been read and written.

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```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <unistd.h>
#include <fcntl.h>

int main (int argc, char **argv) {

    char buf;
    int i1 = open (argv[1], O_RDONLY);
    int o1 = open (argv[2], O_WRONLY|O_CREAT |O_TRUNC, 0700);
    int o2 = open (argv[3], O_WRONLY|O_CREAT |O_TRUNC, 0700);
    int first=1;
    while (1) {
        int ct = read (i1,&buf,1);
        if (ct==0) break;
        if (first) write (o1,&buf,1);
        else write (o2,&buf,1);
        first = !first;
    }
    close (i1); close (o1); close (o2);
    return 0;
}
```