COMP 2560 Fall 2020

Assignment 2

Due date: Oct. 25, 11: 59 PM

1. Write a C program, called reverse, **using standard I/O functions**, to take a file as input then copies it to another file in reverse order. That is, the last byte becomes the first, the byte just before the last one becomes the second, etc.

    The program call should look like:

    reverse fileIn fileOut

    Submit your source code and script files.

2. Download "dict.h" and "dictionary.c" posted on blackboard.

    a) read both code to figure out what they do.

    b) supply am appropriate content to the main function in "dictionary.c" to demonstrate

    that you understand the provided code by invoking those functions defined in

    "dictionary.c"

    Submit your source code and script files.

3. Using only standard I/O functions (like fopen(), fseek(), ftell(), fgets(), etc.), write a C

    program to reverse the order of the lines in a text file. That is the first line becomes

    last, the second line becomes the one before the last one and so on.

    Note: your program should have two arguments, the input file name and the

    output file name.

    Call model:

    reverseFile <inputFileName> <outputFileName>

Example:

Input file:

Hello

I am happy to see you

Output file:

I am happy to see you

Hello

Submit your source code and script files.

4. The program "filesize3.c" we studied in class works fine so far because we have changed the type of the variable "ch" from "char" to "int". However, this program has another potential problem that it would not work properly in some situation. What is that potential problem and how would you fix it?

Submit your source code and script files. In the source code, explain the problem as comments.

Oct. 10, 11:59pm