

CPSC 3600 Homework2

Spring 2021 (50 points)

Instructions:

This assignment is done **individually only!!!** You *cannot discuss the solution to this programming exercise* with other students, you can only talk to your teacher or your TA. Submit all your files in a zipped archive named `asg2_username.tar.gz` to canvas.

Exercise

Using the TCP echo client and server code from Donahoo (that you have used in activity 2) please modify the code to do the following. Instead of transmitting a string (passed from the command line) from client to server, you will pass a text file as a command line argument, and transmit the contents of that file to the sender. (File is attached) The server will receive the entire file, buffer it until it has the entire contents, and then echo (print) it all to the standard output (screen). The output should look like the contents of the original file. After that you will print a goodbye message from both sender and server and close the connection.

It is up to you to figure out the details. There are several different solutions to this problem, and everyone's solution may be different. I do recommend that you review how to read from files in C and go over the code line by line following the chapter in Donahoo.

What to submit:

Zip all your files into one archive `asg2_username.tar.gz` and submit to canvas before the deadline.

Extra Credit (5 points)

Transmit the entire file in reverse, from the end of the poem to the beginning.