

COMPUTER SYSTEMS RESEARCH

Code Writeup of your program, report form 2008-2009

1. Your name: Jeffrey Thomas, Period: 2
2. Date of this version of your program: 10/30/08
3. Project title: Data Compression Through Duplicate Elimination and Tagging
4. Describe how your program runs as of this version. Include
 - files that may be needed
 - algorithms, specific procedures or methods you wrote
 - kinds of input your program uses
 - screenshots, what kinds of output does your program have
 - does your program handle errors, or does it crash on errors of input?
 - tests: summarize the basic analysis and testing of this version of your program

As of now, I do not have much code. I spent a good deal of first quarter figuring out how to connect two computers using Java (code attached). I have created a random file generator for testing my algorithm. It has no methods aside from main(). In main(), it calls Math.random, rounding the result to the nearest whole number. It then writes this to a text file called testfile.txt, and begins a new line. This loops for 1048576 iterations. This is to simulate a file of reasonably large size.

The code for testing the algorithm is still incomplete. It currently asks the user for an integer power to use in the algorithm. There is no error catching at this point. The compression algorithm is in an entirely different method, and is still in development.

5. What do you expect to work on next quarter, in relation to the goal of your project for the year?

Next quarter, I expect to continue work on the compression algorithm and fully complete it. After the algorithm is complete, I will run tests using previously created data. If the algorithm works, I will begin work on the decompression algorithm. Once that is complete, I will run similar tests to check its completeness. Once both programs are complete, then I will begin testing.