Project report

CSE 310: Project 1 – Milestone

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Introduction:

The project goal is to implement variable length encoding and decoding algorithms and, in the process, understand these algorithms, evaluate the effectiveness and efficiency.

Problems encountered:

- Some implementation bugs in merge sort, but resolved them after some debugging.
- Since I was developing on windows, and Gradescope uses Linux environment, there were some differences in internal memory management. Had to modify code to make it run cross platform.

Known bugs/limitations:

- No known bugs/limitations found as of the latest submission.
- Testing was done using all provided files as well as some manually created test data of my own.

Significant interactions:

- Mainly for the purpose of submission formats, search of external reference materials, technical issues, etc.

Citations:

- https://stackoverflow.com/questions/2481269/how-to-make-a-simple-c-makefile
- https://www.tutorialspoint.com/data_structures_algorithms/merge_sort_algorithm.htm
- https://www.learncpp.com/
- https://en.cppreference.com

Version control:

- https://github.com/ninadgund/CSE310_Project_1.git
 - (Repository is private as mentioned)

-o- Commits on Feb 8, 2022 Testing done, should be final commit Q 50ea294 <> ninadgnd committed 12 days ago Implementation done G ffc8ece <> ninadgnd committed 12 days ago Encode step 5 done Q <> ninadgnd committed 12 days ago Encode base created. Code cleanup in preprocess 25fada0 Q <> ninadgnd committed 12 days ago Changed i/o from files to stdio Q. 9afbdea <> ninadgnd committed 12 days ago Working preprocess, i/o to be converted to stdin Q 61ac719 <> ninadgnd committed 12 days ago

Verified __

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-o- Commits on Feb 20, 2022

Initial commit

ninadgund committed 12 days ago

