

PART 1

Input: Modify `in.txt` with the phrase to be tested

Compile: `gcc lab1p4_1.c -o lab1p4_1`

Run: `./lab1p4-1`

Output: see `out.txt`, format gives word and its count in each line

Notes:

Individual words must be 254 characters or less.

Citations:

Lines 8-11 inspired from

https://www.tutorialspoint.com/data_structures_algorithms/hash_table_program_in_c.htm

Line 34 comes from

<https://stackoverflow.com/questions/3463426/in-c-how-should-i-read-a-text-file-and-print-all-strings>

Lines 38-40 come from

<https://stackoverflow.com/questions/2661766/how-do-i-lowercase-a-string-in-c>

PART 2

Input: Modify `in.txt` with the phrase to be tested

Compile: `gcc lab1p4_2.c -o lab1p4_2`

Run: `./lab1p4_2`

Output: see `out_improved.txt`, format gives word and its count in each line

Notes:

Individual words must be 254 characters or less.

Words with the same alphanumeric characters are considered the same word.

The output file may print non-alphanumeric characters, but the program will ignore them when testing equivalence.

Citations:

Lines 8-11 inspired from

https://www.tutorialspoint.com/data_structures_algorithms/hash_table_program_in_c.htm

Lines 30 and 35 based on

<https://www.geeksforgeeks.org/isalnum-function-c-language/>

Line 74 comes from

<https://stackoverflow.com/questions/3463426/in-c-how-should-i-read-a-text-file-and-print-all-strings>

Lines 78-80 come from

<https://stackoverflow.com/questions/2661766/how-do-i-lowercase-a-string-in-c>