

How to run:

-Type make in terminal

Usage: ./wordstat <option> <lename>

Options:

-h: help

-l : number of lines

-w: number of words

-p: palindrome's statistics.

Summary of Design:

Two linked lists that store palindrome words and dictionary words respectively.

Run-Time Analysis:

Let n be the number of words in the input file

Let m be the number of words in the dictionary

Let p be the number of palindromes

2 files reads from disk

$n*n*p$ runs for input

m operations for dictionary

Space Analysis:

$m+n$

Challenges:

Sorting linked list in C