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CS2302 Lab 1 Report

Introduction

The problem presented involves finding the all the anagrams possible for a word provided by the user. Using programming, the process would be to sort to the word in all possible permutations and checking if those permutations are actually a word by referencing a txt document which holds almost all possible words in alphabetical order. To make the process more efficient a timer will be used to test two different methods, one of which involves the inefficient process of sorting the word without checking that the anagram being formed is actually in the txt file and the other involves checking if the anagram being found matches any of the various prefixes of the words found in the txt file.

Proposed Solution, Design, and Implementation

To solve the problem a recursive method that sorts the provided word by the user was implemented. First, the file containing