Christina De Cesaris

Pro3 Report

I found this project detrimental to my mind until things came together, and the clouds began to part.

I had many issues trying to implement a counter in my recBlends, the final solution was to pass the params of recBlends into another function that I called blender that contained a parameter int n which kept the count of results. Without the counter, I do not believe I would’ve been able to check for MAXRESULTS nor check for duplicates. Luckily once with was settled, things started looking up but it wasn’t after several excruciating hours of failure that it was resolved.

Writing the alphabetical sorting function was as well tedious and very much modeled after a nested for loop but with recursion. There were a couple of special base cases that needed to be considered such as when the length of to be alphabetized word was 2 or 1.

TEST CASES: Commas are added for some of the results for sake of readability. In reality, the output is in a column form as seen in the LIB-1 test case before

LIB-1

A library containing all the permutations of ABCDE which totals 120 words.

Input: ABCDE

Results:

AEBDC

BEADC

EBADC

ABEDC

BAEDC

BDEAC

DBEAC

EBDAC

BEDAC

DEBAC

EDBAC

ADBEC

DABEC

BADEC

ABDEC

DBAEC

BDAEC

CDAEB

DCAEB

ACDEB

Which totals to 20 words and is the appropriate behavior even if these are not actual words.

LIB-2: The words.txt given on CCLE, the following tests are on that dictionary, this is the output

Input: listen

Results: listen, silent, tinsel

Input: triangle

Results: integral, triangle

Input: on

Results: on, no

Input: east

Results: east, seat

Input: rac

Results: arc, car

Input: shield

Results: shield

Input: chris

Results: no matches found

LIB-3: Library consisting of the words [tar, art, rat] copy pasted 20 times (60 words total), designed to test for duplicates

Input: rat

Results: art, rat, tar

Input: tar

Results: art, rat, tar

Input: art

Results: art, rat, tar

Input: tra

Results: art, rat, tar

LIB-4, A library with more than MAXDICTWORDS, the size of dict did not load more than MAXDICTWORDS as expected

LIB-5 contains:

cook

look

loko

colo

coko

coco

cooc

cccc

caco

coco

shook

book

nook

crook

shoko

corok

cool

colo

Input: cool

Results: colo, cool

Input: crook

Results: crook

Input: roock

Results: crook

Input: look

Results: look, loko

Input: coco

Results: cooc, coco