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Subject: Project 3 Writeup

Date: July 30, 2020

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Notable Obstacles:

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* For sure, the hardest part of this project for me was function organization, and figuring out how many and which functions I should write and what each should do.
  + This was especially difficult for me because initially my code’s algorithm was slightly off. I stored all my anagrams in an array, even though I could’ve immediately checked whether they were in the dictionary instead of storing them in a (possibly) 362880 size string array. This made me have to include multiple functions for the testing, etc.
  + When I condensed it to immediate testing for dictionaries, my code grew a lot shorter and clearer to understand
* What should have been difficult was the memory management as only 8 megabytes were allowed. However, I started off my code programming with references as parameters, so I didn’t have to change anything in that regard when my code stack overflowed. Rather, it was the string array that I had to change and it was a quick fix.
* The project FAQ really helped, especially with the idea to code a for loop helper function. Without the FAQ the project would have taken longer and been more difficult to finish.

Test Cases Used for Thorough Testing

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| **Dictionary** | **Word** | **Result** | **Reason** |
| original | mengutteni | integument | Testing 10 letter words |
| original | grabetnile | integrable | Testing 10 letter words |
| original | dantenint | intendant | Testing 9 letter words |
| original | asdfasdf | No matches found | Testing nonexistent 8 letter word |
| original | art | art  rat  tar | Testing word with multiple anagrams |
| original | \n \n far | far | Testing newline input |
| original | a | a | Testing 1 char words |
| original | 9 | No matches found | Testing 1 char anagrams that don’t exist |
| MAXDICTWORDS is 10 | a | No matches found | Testing MAXDICTWORDS limit |
| MAXDICTWORDS is 10 | t7h | 7th | Testing MAXDICTWORDS |
| MAXRESULTS is 2 and MAXDICTWORDS is 20 | suhrAa | Aarhus | Testing changing MAXRESULTS and MAXDICTWORDS permutations of word > maxresults < maxdictwords |
| All 24 permutations of 1234  MAXDICT = 20  MAXRESULTS = 30 | 1234 | First 20 permutations | Testing maxdicts with personal dictionary |
| All 24 permutations of 1234 MAXDICT = 30 MAXRESULTS = 20 | 1234 | First 20 permutations | Testing maxresults with personal dictionary |
| All 24 permutations of 1234 MAXRESULTS = 0 | 1234 | No matches found | Testing MAXRESULTS = 0 |
| original | elevenchars |  | Testing 11 letter word |