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Project 3 Report

1. Major Obstacle:
   1. The biggest obstacle I had to overcome was coming up with the algorithm necessary for finding permutations, which I was able to overcome through internet research and following the pseudocode provided. Additionally, I had issue looking up ways to read and utilize data from text file, such as figuring out the end of the text file and.
2. Test Cases:
   1. words file provided
      1. “look”: to ensure that each permutation in results is unique.
      2. “art”: to ensure that all the permutations in results match the words in words file and that they all appear when showResults is used.
      3. “pool”: to ensure that unique permutations of a word with duplicate letters were all detected and added to the results array.
      4. “Tv”, “TV”: to ensure that capitals matter.
      5. “creater”: to check if 7 letter word works.
      6. “splitter”: to check if 8 letter word works.
      7. “astronaut”: to check if 9 letter word works.
      8. “additional”: to check if 10 letter word works.
      9. “business”: to check if a word with 3 repeated
   2. words file provided(doubled)
      1. To check if the number of words in dict array does not exceed MAXDICTWORDS.
   3. words file of all permutations of “part”
      1. To check if the number of elements in results array does not exceed MAXRESULTS.