Refactoring A4

One of the big refactorings we did with our Trie.cpp was using map in place of an array. The most significant change that we made was with the helper method findPrefix for the allWordsStartingWithPrefix. Since we did not work with an array of pointers anymore, we no longer needed to check if a pointer was a nullptr in the array. All we needed to do was iterate through the existing value pairs of the map. If it didn't exist, it would simply not be within the map.

The second biggest refactor we made was getting rid of the member variable currentLetter. This variable was a string that stored the letter of the current Tire (node), and in the case of the root was simply just "root". We got rid of this because it wasn't needed because in the map the key was the current letter, so to store it in a variable is redundant. A lot of our methods relied on currentLetter, so we had to go through and make changes in a lot of places. Most being simple changes from "currentLetter" to the key of the value. However, reimplementing the allWordsStartingWithPrefix method took a while to redesign without using currentLetter. As representing the root node took some clever thinking.

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This faction returns all sorts starting with a given prefix.

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This faction is the current trie doesn't get meased up when trying to find the prefix.

This faction returns work;

This faction returns we converting();

This faction returns all sorts at the current trie doesn't get meased up when trying to find the prefix.

This faction returns work;

This shaper faction iterates through the trie to get in position to start building words using the prefix.

This halper faction iterates through the trie to get in position to start building words using the prefix.

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This halper faction iterate
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