EE 422C Project3 (Word Ladder) Team Plan

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Jihwan Lee did the BFS module initially and Kevin Liang did the DFS module initially. Jihwan Lee ran a few tests to check that BFS worked properly then worked on the DFS module. Kevin Liang ran a few tests to check DFS then worked on the BFS module. Jihwan Lee created a git repository where he uploaded the code that he worked on. We ended up communicating through email noting that our BFS and DFS functions were very similar. We realized we needed to optimize our DFS functions. Both Kevin Liang and Jihwan Lee optimized the DFS module differently, ultimately, Jihwan’s initial optimization was better. We met up in class to discuss how to further optimize the DFS module since we ran into a case where when we created a set object for the dictionary our code would run into a stack overflow error. We tried to fix this by changing the set object into an array list; however, that reduced the speed of our code. We ended up talking to Nadakumar and re-optimized our code. Jihwan implemented the new changes and Kevin Liang created a test case that could produce random start and end words to test our code. The final testing was done separately.