**EE422C Project 3 (Word Ladder) Test Plan**

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Fall 2016*

Our test methodology was to enter pairs of words that had varying word ladder lengths, and also find pairs of words with no word ladder. We tested both modules at the same time by entering a pair of words into the console. A function called hasDuplicates( ) checked the DFS and BFS outputs for duplicates. We believe that our test cases covered a wide range of inputs by testing pairs of words that had long word ladders and other pairs that had no word ladder. If the pairs had no word ladder, we checked that DFS did not exit the program with a StackOverflowError. However, we were not able to test every possible combination of words within the dictionary.

What was your goal, methodology, and conclusion? 1 paragraph. Example:  
Did you use JUNIT? Did you test modules or the whole thing all at once? What areas  
did you feel you covered in your final test suite? What did you not cover?

Test 1  
a) Test name

NO\_LADDER\_DFS\_BFS

b) What feature does the test cover – 1-2 phrases or sentences.  
Checks that both BFS and DFS has no word ladder

c) Set up for the test – initialization.  
None.

d) Expected output for a good module.  
Ladder between xylyl and smart. Ladder checked for duplicate words.

e) The pass/fail criterion for the test.  
Both functions indicate there is no word ladder. No stack overflow,

f) Any comments, if any.  
Test is expected to run in 3 seconds or less.