EE 422C Project 3 (Word Ladder) Test Plan

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Fall 2016

1. Project3Tester.java
   1. Test Name: testRandom
   2. What feature does the test cover?
      1. This test checks both DFS and BFS modules. It checks whether or not a graph is found for both DFS and BFS displaying the result. If the graph exists for one but not the other, it display’s an error message. It then display’s the different rung sizes if they exist and display’s a doesn’t exist message if they don’t exist.
   3. Set up for the test – initialization.
      1. The test will display the different rungs generated for both DFS and BFS but if positive that the modules are working correctly such that they are finding words that have a one letter difference then comment out the for loop in printLadder to increase clarity of result output.
   4. Expected output for a good module
      1. When a ladder exists it should exist for both BFS and DFS when a ladder doesn’t exist it shouldn’t exist for both DFS and BFS.
   5. Pass/Fail
      1. One check for pass fail is the expected output in question D. The other pass/fail check is that each BFS/DFS check should be almost instantaneous. (less than a second)
   6. Comments
      1. None
2. Project3Test.java
   1. Test Name: individualTest
   2. What feature does the test cover?
      1. This test tests DFS and BFS modules printing out the ladders for both. It can be used to make sure that your DFS and BFS are changing only one letter at a time.
   3. Set up for the test
      1. The test will display the rungs of the ladder so if the for loop in printLadder is commented out, then uncomment it.
   4. Expected output for a good module
      1. The ladder should be correctly implemented where each rung has only one letter difference
   5. Pass/Pail
      1. It’s a pass if the ladder is implemented correctly
   6. Comments
      1. none