

Main() Algorithm

Create new WordLadderSolver object.

Access dictionary .dat file

processLinesInFile(<path to dictionary file>, "Create Dictionary"): returns list of strings

While text left in dictionary

Read line from dictionary

If(line from dictionary = valid word)

Add word to list of string for words

Add list from processLinesInFile call to WordLadderSolver dictionary.

processLinesinFile(<path to input pairs file>, "Create Pairs"): returns list of strings

While text left in file

Read line from file

Add to list

Iterate through pairs list, parsing pairs and checking if they are in the dictionary

If pair is in dictionary, wordLadder = wordLadderSolver.computeLadder(word 1, word 2)

Check if wordLadder is valid via validateLadder()

If valid, print out ladder

Else, NoSuchLadderException