Word Ladders Report

Josefine Myllenberg & Lars Korduner

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Results

Our implementation produces the expected results on all input–
output file pairs and passes all tests. The Adjacency list creation
takes $O(n^2)$. This could be reduced by using a better comparison
algorithm.

Implementation details

We build the graph's edges by iterating over all words and then
create an adjacency list by comparing all words with eachother. This
takes $O(n^2)$ time.

After that we read the in file and iterate through the words adja-
cency lists to find the distance between words.

The total running time of our implemenation (including graph
construction and traversal) is 3459 mili seconds or $O(n^2)$.