

Word Ladders Report

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March 31, 2016

Results

MST size 16598 for USA-highway-miles.txt

Implementation details

I implemented the algorithm of Prim, using a priority queue initialized with all nodes with infinity distance from root. Take the best node, add to the tree and update all it's neighbours to receive the distance, if closer, as attribute. The priority queue updates and next node will automatically be the best one to add to the tree.

The total running time for implementation is $O(m \log(n))$ due to using a priority queue and adjacency list.