

# *Word Ladders Report*

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## *Results*

Our implementation produces the expected results on all input-output file pairs

## *Implementation details*

We implement the graph by iterating once over all of the nodes,  $O(n * w)$  for building the graph. Doing the BFS search gives us a time complexity of  $O(n + m)$ , so the total worst case asymptotic time for our algorithm is  $O(n * w + m)$ .