**Program Run**

The following demonstrates a full program run for Lab 7. The user is given three options. The first option allows the user to create their own graph by selecting the number of vertices and edges based on an edge factor. The tests will then be applied. The user can also determine whether they want to test the backtracking or randomization function. If the randomization function is chosen, then users can determine whether they want to use the generalized randomization function or the graph implementation version. A sample run using a graph implementation is shown below.

A screenshot of a cell phone

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A screenshot of a cell phone

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All graphs drawn are stored in the current folder where the program is located. The type of graph is followed by a timestamp.

The second option that the user can choose is to evaluate their own edit distance. Users are given the option to either enter their own words to find the edit distance or select words based on their length. Note to use this function, please use the WordSample.txt file which contains the words used for the edit distance.

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A screenshot of a social media post

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The third option allows users to run the automated tests for the generalized randomization, randomization for the different graphical representations, backtracking, and the edit distance function.

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