

Instructions for Graphs App

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1 Euler circuits

1. Select or draw the graph you wish to work with.
2. Click on the button "Euler circuits".
3. Select the initial vertex, it should turn yellow.
4. Select the next vertex you wish to travel to.
5. When you have completed an Euler circuit a message will appear in the lower right-hand corner.

2 Eulerizing Graphs

1. Select or draw the graph you wish to work with.
2. Click on the "Eulerize" button.
3. The lower right corner will indicate whether the current graph is Eulerized or not.
4. By selecting each vertex of a currently existing edge you can produce duplicate edges.
5. When the graph is Eulerized, it will be indicated in the lower right corner.
6. If you wish to now find an Euler circuit follow the instructions for Section 1.

3 Weighted Graphs

To find weighted Hamiltonian circuits:

1. Select the graph you wish to work with.
2. Click the "Weighted Graphs" button. This will give you a random set of weights.
3. Add edges to the path by selecting both vertices corresponding to the edge. The total weight will appear in the bottom right corner.

4 Saving Graphs

It is possible to save one graph per session. Note that the graph will not be there in the next session.

1. Draw the graph you would like to save.
2. Click the button "Store Graph".
3. That button will now read "Recall Graph". Click on that button again to redraw the graph you stored.

5 Bugs

Please report all bugs to me at boernej@westminster.edu.