Fleury's algorithm

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Fleury's algorithm constructs an Euler circuit in a graph (if it's possible).

1. Pick any vertex to start

2. From that vertex pick an edge to traverse, considering following rule: never cross a bridge of the reduced graph unless there is no other choice

3. Darken that edge, as a reminder that you can't traverse it again

4. Travel that edge, coming to the next vertex

5. Repeat 2-4 until all edges have been traversed, and you are back at the starting vertex

By "reduced graph" we mean the original graph minus the darkened (already used) edges.