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- 1) Find all the odd vertices in the graph.
- 2) Determine all possible pairings of odd vertices.
- 3) For each pairing find the edges that connect the odd vertices with the shortest possible path.
- 4) Determine the combination of pairings that has the shortest total length.

5) Add the combination of pairings found previously as edges to the original graph.

6) The length of an optimal Chinese postman route is the sum of all the edges in augmented graph.