## 5 TSP with backtracking bound (Niveau II)

Describe a backtracking algorithm for solving the TSP problem. Can it find the optimal solution? Take a look at the lecture video describing the backtracking algorithm for color coding countries.

1. Coinpute MST and Zwee = w\_ust offally connected Graph G eemst Start at any Node wood of with some of boto the frost connected note y and Sum + = w(vo, V1) and ve man bee the woles visited to to the unxt connected note and add the next to the sen

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V<sub>0</sub> V<sub>1</sub> O V<sub>3</sub>

the alpor other will find an optimal solution, but will have to calculate all possible Spanaing trees.

