Programming Assignment #2

Due: June 26, 2020 23:59

- The purpose of this programming assignment is:
 - to implement a *best-first branch and bound* algorithm that solves the Traveling Salesperson Problem and
 - to conduct some experiment with different bound functions to compare their performance on pruning the tree search.
- To check the effect of the bound function on the performance of the algorithm:
 - you need to do some experiments using two different bound functions: textbook version and your own bound function
 - to do this, devise and implement a *reasonable bound function* that is different from the one in the textbook.

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- Your program should count and print
 - the number of tree nodes generated when each bound function is used,
 - the time it takes to find the optimal solution,
 - and the time it takes to execute the bound function.
- You need to conduct experiments with 5 different graphs (some dense, some sparse) and include the experimental results in your report.
- You report should also include the descriptions of your bound function and your thoughts on how it can be improved.