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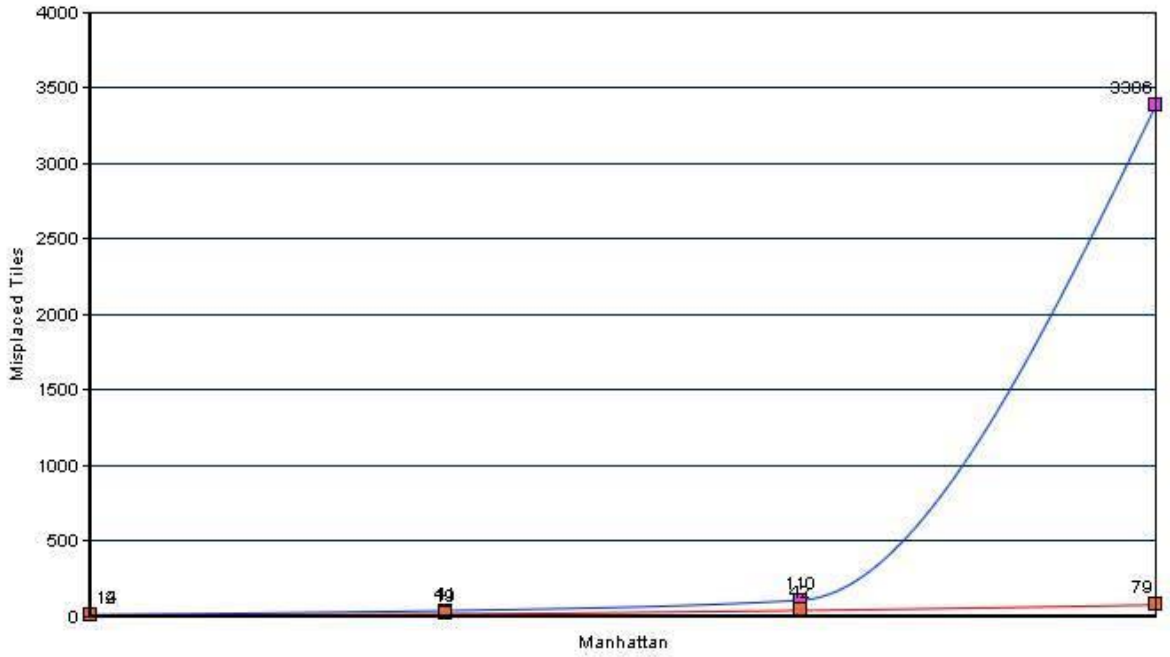
Q1.

a) Manhattan distance performs better



b)

Q2.

a) Sum is not admissible because you're overestimating and picking up jobs
   Max is admissible
b) No, you can emit the information from the map in the hashable state since the map is identical in each state.
c) No, the hashable state should be a unique element so including computable parts is redundant.
d) Does not change If a solution exists or not since the pickup state can be reached after dropoff.
   Changes the cost of the optimal solution because it takes more states to reach end state.
   Blocking the actions do make it more efficient because its pruning states.
e) No, it might stop him from picking up another job with a higher payoff from another location because of the weight limit.
f) Don't include time in the hashable state