

Review QUIZ 1 of 2

Greedy Approach

(All questions are based on Lecture Notes. Go to the Lecture Notes and fully understand the topics!)

Q1. Greedy Approach? Greedy vs DP for optimization problems?

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Q2. Prim's MST Algorithm via Greedy? Kruskal's MST Algorithm via Greedy?

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Q3. Prim's MST Algorithm vs. Kruskal's MST Algorithm? Negative edge weights? Maximum Spanning Tree Problem?

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Q4. Dijkstra's SSSP (with nonnegative edge weights only) Algorithm via Greedy?

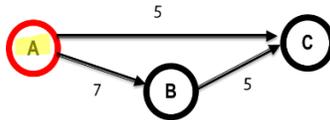
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Review QUIZ 2 of 2

Greedy Approach

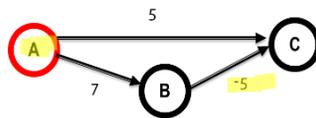
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Q5. Dijkstra's SSSP Algorithm via Greedy on a digraph (having **nonnegative** edge weights only) with source A



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Q6. Dijkstra's SSSP Algorithm via Greedy on a digraph (having **negative** edge weights) with source A



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Q7. The Fractional Knapsack Problem via Greedy? The 0-1 Knapsack Problem via Greedy?

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Q8. The 0-1 Knapsack Problem via DP? Worst-case time complexity NP-complete problem? The TSP Problem via DP? Worst-case time complexity? NP-complete problem?

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