

Review QUIZ 1 of 2

Dynamic Programming (DP)

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

Q1. Dynamic Programming (DP)? Compare DP vs D&C?

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Q2. The nth Fibonacci Term computing problem via DP - Recursive property?

Compare D&C vs DP for the nth **Fibonacci Term** computing problem?

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Q3. The Binomial Coefficient computing problem **via DP** - Recursive property?
Compare D&C vs DP for the **Binomial Coefficient** computing problem?
[\[GO TO Lecture Note Slide #21, #22, #24, #27\]](#)

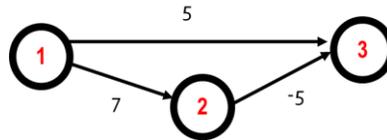
Q4. APSP via DP – Floyd & Warshall’s Algorithm? Recursive property? Worst-case time complexity?
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Review QUIZ 2 of 2

Dynamic Programming (DP)

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Q5. APSP by Floyd & Warshall's Algorithm on a digraph



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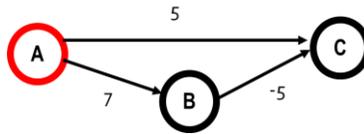
Q6. Principle of Optimality? Apply to The shortest paths problem? Apply to The longest paths problem?

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Q7. SSSP via DP - Bellman & Ford's Algorithm – Recursive property?

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Q8. SSSP by Bellman & Ford's Algorithm on a digraph with source A



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