

ACM Competitive Programming @UM6P Summer 2024

Instructor: R. Abid

Assignment#5:

Topic: Dynamic Programming

Due date: Mon, Aug 19th

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Suggested Problems -

- 1. 0-1 Knapsack (Super Sale) UVA#10130
- 2. Coin Change UVA#674
- 3. Wedding Shopping UVA#11450
- 4. Binomial Coefficients UVA#1649
- 5. LCS (Longest Common Subsequence) UVA#10405
- 6. LIS (Longest Increasing Subsequence) UVA#11499
- 7. Kadane's Algorithm:
 - 7.1. MAX 1D Range Sum UVA#507
 - 7.2. MAX 2D Range Sum UVA#108

Classical Problems

- MAX 1D Range Sum UVA#507
- MAX 2D Range Sum UVA#108
- LIS (Longest Increasing Subsequence) –

Exercises / Assignments

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UVA#11499

- o-1 Knapsack UVA#10130
- Coin Change UVA#674