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1. Understanding computer programs (First week - 8/10/2020 - 14/10/2020)

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- Examples
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- Hello world program
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- Prime sieve

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- 0/1 knapsack
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- Matrix chain multiplication
- Friends pairing problem
- Catalan number concept
- Optimal game strategy
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46. Challenges (Eleventh week)

- No. of Binary String
- LCS w 3 strings
- Wildcard pattern matching

- Brackets all over
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- Max sum submatrix (https://www.geeksforgeeks.org/maximum-sum-rectangle-in-a-2d-matrix-dp-27/)

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- Union by rank optimisation
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- Snakes and ladders problem
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- Searching in sorted matrix
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- Multiplicative modulo inverse
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- Binary/Modular exponentiation both recursive and iterative
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54. Questions (Thirteenth week)

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55. String algorithms (Thirteenth week)

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56. Segment tree (Fourteenth week 7/01/2021 - 13/01/2021)

- Intro, build, updation, query
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57. Binary indexed tree (Fourteenth week)

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- Update or build, query.
- Problems

58. Mo's (sqrt decomposition) (Fifthteenth week 14/01/2021 - 20/01/2021)

- Offline processing of queries with examples
- Introduction, code and examples

59. HLD (Fifthteenth week)

60. Fourier series (Fifthteenth week)