## TLE Eliminators - DP Bootcamp

Class Number	In-Class Problems	Homework Problems	Lecture Slides
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Week 1 - Harisam  Class 1 Introduction to Recursion with memoization	1) Fibonacci 2)Dice Combinations CSES https://cses.fi/problemset/task/1633 3)Min path sum in Grid	1) CSES Minimizing Coins https://cses.fi/problemset/task/1634 2) CSES Coin Combinations 1 https://cses.fi/problemset/task/1635 3) LIS https://leetcode.com/problems/nogest-increasing-subsequence/description/ 4)Atcoder Frog 2 https://alcoder.jp/contests/dp/tasks/dp_b	Link
Bonus Problems after Class 1		Tenzing and Balls https://codeforces.com/problemset/problem/1842/C Zebroid https://codeforces.com/problemset/problem/209/A	
Class 2 Problem Solving on Recursion with memoization	Atcoder Vacation https://atcoder.jp/contests/dp/lasks/dp_c Edit Distance CSES https://cses.fi/problemset/lask/1639 CSES Book Shop https://cses.fi/problemset/lask/1158	Hamiltonian Wall Codeforces https://codeforces.com/contest/1766/problem/C Array Walk Codeforces https://codeforces.com/problemset/problem/1389/B By Elevator or Stairs? Codeforces https://codeforces.com/problemset/problem/1249/E Dima and a Bad Xor Codeforces https://codeforces.com/problemset/problem/1249/E Omkar and Bed wars Codeforces https://codeforces.com/problemset/problem/1392/D Remove the Bracket Codeforces https://codeforces.com/problemset/problem/C Sleeping Schedule Codeforces https://codeforces.com/problemset/problem/C	DP Bootcamp Class 2
Class 3 Terminology in DP, Time and Space complexity estimation	Covered Path Codeforces https://codeforces.com/contest/534/problem/B Road Optimization Codeforces https://codeforces.com/contest/1625/problem/C	Coin Combination 2 CSES https://cses.fi/problemset/task/1636 Array Description CSES https://cses.fi/problemset/task/1636 Array Description CSES https://cses.fi/problemset/task/1746 Mashmokh and ACM Codeforces https://codeforces.com/contest/414/problem/B Sending a Sequence Over the Network Codeforces https://codeforces.com/contest/1741/problem/E Pictures with Kittens Codeforces https://codeforces.com/problemset/problem/1077/F1	Link
Week 2 - Harisam		Add and Codeferor	
Class 1	Planar reflections Codeforces	Add one Codeforces https://codeforces.com/problemset/roblem/1513/C Rectangle Cutting CSES https://cses.fluproblemset/has/s/1744 Removal Game CSES https://cses.fluproblemset/has/s/1097 Flood fill Codeforces	
Recursive Vs Iterative DP	https://codeforces.com/contest/1498/problem/C	https://codeforces.com/contest/1114/problem/D	Link
Class 2 Problem Solving on Recursive Vs Iterative DP	Armchairs Codeforces https://codeforces.com/contest/1525/problem/D Atcoder Knapsack 2 https://atcoder.jp/contests/dp/tasks/dp_e	https://codeforces.com/contest/888/problem/D Explorer/Space Codeforces https://codeforces.com/contest/1517/problem/D Office Keys Codeforces https://codeforces.com/contest/831/problem/D Coloring Trees Codeforces https://codeforces.com/contest/831/problem/D Coloring Trees Codeforces https://codeforces.com/contest/11/problem/D Vet another problem on a subsequence codeforces https://codeforces.com/contest/10/0/problem/D Different/Arrays codeforces https://codeforces.com/contest/1783/problem/D	Link
Class 3 State elimination, space optimization and transition optimization	e elimination: n white balls, m black balls. Find # ways to place the if you can place exactly a[i] balls at position i.  Atcoder Candies  https://atcoder.pr/contests/dp/tasks/dp_m	Counting Towers CSES https://cses.fi/problemset/task/2413 Between two arrays Atcoder https://acoter.ji/contest/sabe2221asks/abc222 d Integer division Atcoder https://atcoder.ji/contest/sabe2881stasks/abc288 f Checkout Assistant Codeforces https://codeforces.com/contest/19/problem/B	DP Bootcamp Class 6.pdf
Week 3 - Harisam			
Class 1 Problem Solving on Transition optimization	Lottery Atcoder https://atcoder.jp/contests/abc243/fasks/abc243_f Introduction: Segment Tree Optimization Codeforces https://codeforces.com/gym/316406/problem/A	Subsequences Codeforces https://codeforces.com/contest/97/problem/C Maximum Subarray Codeforces https://codeforces.com/contest/1796/problem/D Increasing Subsequences Atcoder https://codeforces.fuproblemse/trask/1/145. Chip Move Codeforces https://codeforces.com/contest/1716/problem/D	DP Bootcamp Class 7.pdf
Class 2 Answer Construction	Constructing Path in min sum grid path  Reconstructing LCS	Dima and Bad Xor Codeforces https://codeforces.com/contest/1151/problem/B Cashback Codeforces https://codeforces.com/contest/940/problem/E Minimizing coins CSES (Try to reconstruct the answer here) https://coses.filproblemset/pask/1634 River Locks Codeforces https://codeforces.com/problemset/problem/1700/D Journey Codeforces https://codeforces.com/contest/721/problem/C	DP Bootcamp Class 8.pdf
Class 3 Non Integer DP States, Push and Pull DP	Non.Integer DP. States Kickstart problem Push pull dp. Chef Monocarp codeforces https://codeforces.com/contest/1437/problem/C	Sports Festival Codeforces https://codeforces.com/contest/1509/problem/C Make them equal Codeforces https://codeforces.com/contest/1633/problem/D Leaping Tak Atcoder https://atcoder.ip/contest/1634/problem/D Hot startup Codeforces https://codeforces.com/contest/179/problem/D1	Link
Week 4 - Priyansh			
Class 1 DP with Bitmasking	Points Distance Problem - Permutation Minimum Xor Problem https://leetcode.com/problems/minimum-xor-sum-of-two-arrays/	O Matching https://latcoder.jp/contests/dp/tasks/dp_o Assign https://www.spoj.com/problems/ASSIGN/ Kefa and Dishes https://codeforces.com/contest/580/problem/D	Link
Class 2 DP on Subsets	3'n subsets idea problem https://codeforces.com/blog/entry/45223 Elevator Rides https://cses.fi/problemset/task/1653	Square Subsets https://codefores.com/problemset/problem/895/C Elephant and T-shirts https://www.codechef.com/problems/TSHIRTS Counting Tilings https://cses.f/problemset/task/2181 Counting Numbers Digit DP	Link
Class 3 Digit DP	Count Number of digits with sum = K Google Kick Start Problem - even digit even, odd digit odd g	https://cses.fl/problemset/task/2220 Classy Numbers https://codeforces.com/groblemset/problem/1036/C Encoding https://www.code-enf.com/problems/ENCODING Beautiful Integers in Range etcode.com/contest/biweekly-contest-111/problems/number-of-beautiful-integers-in-t	he <u>-</u> Link