**1. Classic Dynamic Programming**  
a. [LCS](http://en.wikipedia.org/wiki/Longest_common_subsequence_problem)  
   Problem: 1. [SAMER08D](https://www.spoj.pl/problems/SAMER08D/)  
b. [LIS](http://en.wikipedia.org/wiki/Longest_increasing_subsequence)  
   Problem: 1. [Beautiful People](http://acm.sgu.ru/problem.php?contest=0&problem=199)  
                 2. [MDOLLS](http://www.spoj.pl/problems/MDOLLS/)  
                 3. [MSTICK](http://www.spoj.pl/problems/MSTICK)  
                 4. [MCARDS](http://www.spoj.pl/problems/MCARDS/)  
  
c. [Edit Distance](http://en.wikipedia.org/wiki/Edit_distance)  
  
d. [Matrix Chain Multiplication](http://en.wikipedia.org/wiki/Matrix_chain_multiplication)  
   Problem: 1. [Mixtures](http://www.spoj.pl/problems/MIXTURES)  
  
e. [Knapsack](http://en.wikipedia.org/wiki/Knapsack_problem)  
   Problem: 1. [Scubadiv](http://www.spoj.pl/problems/SCUBADIV/)  
  
**2. Advance DP**  
a. DP k-th lexicographical string

    Problem: 1. [z-01 paths](http://z-trening.com/tasks.php?show_task=5000000355)

                   2. [z-board](http://z-trening.com/tasks.php?show_task=5000000286)  
                   3. [Linear Garden (IOI 2008)](http://z-trening.com/tasks.php?show_task=5000000465)  
  
b. DP tree  
    Problem: 1. [z-sumpaths](http://z-trening.com/tasks.php?show_task=5000000310)  
                   2. [River (IOI 2005)](http://z-trening.com/tasks.php?show_task=5000000778)  
                   3. [z-company](http://z-trening.com/tasks.php?show_task=5000000363)  
                   4. [Greedy Hydra (CNOI 2002)](http://z-trening.com/tasks.php?show_task=5000001024)  
                   5. [VOCV](http://www.spoj.pl/problems/VOCV/)  
                   6. [PT07F](http://spoj.pl/problems/PT07F)                   7. [PT07X](https://www.spoj.pl/problems/PT07X/)  
                   8. [nagibni](http://z-trening.com/tasks.php?show_task=5000000070)  
  
c. DP+ BIT/segment tree  
    Problem: 1. [Salesman (IOI 2009)](http://z-trening.com/tasks.php?show_task=5000000569)  
                   2. [explosion](http://z-trening.com/tasks.php?show_task=5000000441)  
                   3. [intervali](http://z-trening.com/tasks.php?show_task=5000000050)  
                   4. [RENT](http://www.spoj.pl/problems/RENT)  
                   5. [INCSEQ](http://www.spoj.pl/problems/INCSEQ/)  
                   6. [INCDSEQ](http://www.spoj.pl/problems/INCDSEQ/)  
  
d. DP+ convex hull  
    Problem: 1. [Batch Scheduling (IOI 2002)](http://z-trening.com/tasks.php?show_task=5000000624)  
                   2. [NKLEAVES](http://z-trening.com/tasks.php?show_task=5000000742)  
                   3. [Harbingers (CEOI 2009)](http://z-trening.com/tasks.php?show_task=5000000749)  
                   4. [Commando (APIO 2010)](http://z-trening.com/tasks.php?show_task=5000001044)  
  
e. DP pre-processing  
    Problem: 1. [Oil (APIO 2009)](http://z-trening.com/tasks.php?show_task=5000000786)  
                   2. [Garden (IOI 2005)](http://z-trening.com/tasks.php?show_task=5000000773)  
                   3. [Pyramid (IOI 2006)](http://z-trening.com/tasks.php?show_task=5000000194)f. DP bitmask  
   Problem: 1. [Reklame](http://z-trening.com/tasks.php?show_task=5000000807)  
                  2. [Chess](http://z-trening.com/tasks.php?show_task=5000000414)  
                  3. [Bond](http://z-trening.com/tasks.php?show_task=5000000858)  
                  4. [TRSTAGE](http://www.spoj.pl/problems/TRSTAGE/)  
                  5. [HIST2](http://www.spoj.pl/problems/HIST2/)  
                  6. [LAZYCOWS](https://codeforces.com/blog/entry/spoj.pl/problems/LAZYCOWS)  
  
g. Problem 1: [Grid (BOI 2008)](http://z-trening.com/tasks.php?show_task=5000000992)  
  
h. DP matrix multiplication/ DP using recurrence  
    Problem 1. [SEQ](http://www.spoj.pl/problems/SEQ/)  
                  2. [SPP](http://www.spoj.pl/problems/SPP/)  
                  3. [z-funkcija](http://z-trening.com/tasks.php?show_task=5000000078)                  4. [mit-indiv09-words](http://z-trening.com/tasks.php?show_task=5000000543)  
                  5. [Reading (Balkan 2009)](http://z-trening.com/tasks.php?show_task=5000000718)  
                  6. [Super Climber](http://z-trening.com/tasks.php?show_task=5000000237)  
                  7. [z-mario](http://z-trening.com/tasks.php?show_task=5000000311)  
  
i. DP+ trie  
   Problem 1. [MORSE](http://www.spoj.pl/problems/MORSE/)  
  
j. DP+geometry  
   Problem 1. [MPOLY](https://www.spoj.pl/problems/MPOLY/)  
                 2. [CVXPOLY](https://www.spoj.pl/problems/CVXPOLY/)  
                 3. [MTRIAREA](https://www.spoj.pl/problems/MTRIAREA)  
  
k. DP + Binary Search

   Problem 1. Game (IOI 2008, Practice session)

l. DP + Knuth Optimization  
   Problem 1. [Breaking Strings](http://acm.zju.edu.cn/onlinejudge/showContestProblem.do?problemId=2222)  
Other Problems in SPOJ can be found [here](http://pt1989.22web.net/c0ding/spoj.php?search=dp) by [**pt1989**](https://codeforces.com/profile/pt1989)  
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Reference:  
      1. [Topcoder](http://www.topcoder.com/tc?module=Static&d1=tutorials&d2=dynProg)  
      2. [Codechef](http://www.codechef.com/wiki/tutorial-dynamic-programming)

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| [**Harta**](https://codeforces.com/profile/Harta) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-7068" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-7063) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Thank you so much :)  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**ridowan007**](https://codeforces.com/profile/ridowan007) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-7072" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  I Love DP :) Thanks for it  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**Harta**](https://codeforces.com/profile/Harta) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-7678" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-7072) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  can someone suggest some game problems solved using DP? thx  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**simp1eton**](https://codeforces.com/profile/simp1eton) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-7697" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Try this one. It is a problem that I came across in the past. Sorry, I forgot the website and don't have the testcases :(, but I know the algorithm though XD.  You have a N bowling pins (1<=N<=1000) arranged in a line. The pins are represented as a string of 1s and 0s. 1 means the pin is still standing and 0 means the pin has been knocked down. Player A and B take turns to play this game, with player A moving first.  In each of their turns, A or B chooses to knock down up to K (1<=K<=N) consecutive standing pins down. A player can only knock down exactly one consecutive block of standing pins during his turn. He must also knock down at least 1 pin. The player who cannot make a move loses.  Given N,K, and the initial starting configuration of the pins, determine who will win under optimal play. If A will win, output the resulting configuration of the pins after A has made his move. If there are multiple moves A can make, output the move that will result in a lexicographically smallest resulting formation.  Note: You do require a bit of game theory before you can solve this problem.  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**Harta**](https://codeforces.com/profile/Harta) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8097" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-7697) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  ow.. thx for the problem, I just notice that someone had replied xD  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**mostafa\_elabady**](https://codeforces.com/profile/mostafa_elabady) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8243" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  thanks  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |

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| [**bhardwajjayesh7**](https://codeforces.com/profile/bhardwajjayesh7) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8312" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  hi, I am facing problems with the [chess problem](http://z-trening.com/tasks.php?show_task=5000000414)  listed above. Can anyone suggest some hints to solving the problem.  P.S: I am a newbie in DP  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**Harta**](https://codeforces.com/profile/Harta) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8330" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-8312) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  since M is small (M<=10) you can use bitmask. 0->no king 1->there is a king dp[i][state] where state means the state of the kings in row-i you can add dp[i][state1] with dp[i-1][state2] if kings in state2 can't attack kings in state1.  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [EmadWilliam](https://codeforces.com/profile/EmadWilliam) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8328" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  DP + Binary Search  (Game, IOI 2008, Practice session)  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**Harta**](https://codeforces.com/profile/Harta) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8329" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-8328) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  added. Thx  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**bhardwajjayesh7**](https://codeforces.com/profile/bhardwajjayesh7) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8332" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  thnx Harta  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |

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| [**a70babat**](https://codeforces.com/profile/a70babat) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8897" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  hi, can you say some hints for problem [MTRAREA](https://www.spoj.pl/problems/MTRIAREA/)? is there any solution better than O(n^2)?  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**it4.kp**](https://codeforces.com/profile/it4.kp) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8899" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-8897) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  You can solve it in O(n\*log(n)). First find a convex hull, and then use the method described [here](http://stackoverflow.com/questions/1621364/how-to-find-largest-triangle-in-convex-hull-aside-from-brute-force-search).  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**a70babat**](https://codeforces.com/profile/a70babat) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-8908" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-8899) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  thanks. beautiful idea! I was trying to solve it using DP. does it have any efficient solution using DP?  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**Mehrdad**](https://codeforces.com/profile/Mehrdad) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-9335" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  hi, What is DP + Knuth Optimization?  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**Harta**](https://codeforces.com/profile/Harta) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-9336" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-9335) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Hopefully [this](http://forums.topcoder.com/?module=Thread&threadID=579321&start=0&mc=17) will help :)  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**Mehrdad**](https://codeforces.com/profile/Mehrdad) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-9337" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-9336) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Thanks  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [EmadWilliam](https://codeforces.com/profile/EmadWilliam) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-9362" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  How to solve MIXTURES in a complexity better than O(n^3) ?  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [kletoskletos](https://codeforces.com/profile/kletoskletos) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-22458" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-9362) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Do you mean the O(n\*logn) algorithm?Or is there something easier?  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**fataluk1**](https://codeforces.com/profile/fataluk1) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-10710" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Anyone got a clue on how to approach The Greedy Hydra problem? It seems tough :|  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**simp1eton**](https://codeforces.com/profile/simp1eton) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-10839" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-10710) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  If the number of colours >= 3, you can always colour the edges in such a way that no fruits are eaten. Just alternate the colouring.  If the number of colours == 2, then you write the N^3 dp.  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**Anurag**](https://codeforces.com/profile/Anurag) | 10 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-24724" \o "Link to comment) |  [←](https://codeforces.com/blog/entry/325) Rev. 4    [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Very  useful content. Thanks! I will mention my update whenver i solve any problem from above.  1. c. [Edit Distance](http://www.spoj.pl/problems/EDIST/)- [Done](http://ideone.com/ICbWB)Source Code       How to tackle array size .....declaring dp[2000][2000] gives seg. fault?       [Tutorial on Edit Distance](http://www.merriampark.com/ld.htm)       [Algo](http://nlp.stanford.edu/IR-book/html/htmledition/edit-distance-1.html)  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**ron2794**](https://codeforces.com/profile/ron2794) | 8 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-116370" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-24724) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  the problem will be solved if you increase the size to 3000, same happened with me too.  Just take a global static int of size 3000.  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**scofield23**](https://codeforces.com/profile/scofield23) | 9 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-33283" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  can u tell the level of difficulty too..  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**iscsi**](https://codeforces.com/profile/iscsi) | 9 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-48406" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Hi  Can anybody help me what is the problem with my [solution](http://codepaste.net/y88rap) for the mixtures problem? (I've got WA)  (I've checked spoj forum and my solution is correct those test case.. :( )  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**Oleg**](https://codeforces.com/profile/Oleg) | 9 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-48436" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-48406) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **+1** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Seems it won't even pass example input. There can be multiple input in single file - you read only first one.  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**iscsi**](https://codeforces.com/profile/iscsi) | 9 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-48438" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-48436) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Thank you, it's a shame :( I was careless sry..  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**naggar**](https://codeforces.com/profile/naggar) | 9 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-57449" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-48438) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  That was my bug too, Hi 5 ! LOL :D  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**f.nasim**](https://codeforces.com/profile/f.nasim) | 9 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-80277" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-48438) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Also mine. :)  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**Inf\_Zero**](https://codeforces.com/profile/Inf_Zero) | 9 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-52626" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Is there something wrong with z-trening!!!! please provide some alternative(judge) for the z-trening problems in above list  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**keivan**](https://codeforces.com/profile/keivan) | 8 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-100454" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-52626) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  I have the same problem .  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**sergio3010**](https://codeforces.com/profile/sergio3010) | 8 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-103750" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-52626) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  same problem here.  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | |
| [**ron2794**](https://codeforces.com/profile/ron2794) | 8 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-116369" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  For editDistance problem in above for which you haven't added any problem, you can add this problem :  <http://www.spoj.com/problems/EDIST/>  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) | | |

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| [**Nourin\_Eka**](https://codeforces.com/profile/Nourin_Eka) | 8 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-128338" \o "Link to comment) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **+3** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  Hello,  Any useful link,tutorial to get idea about Digit DP?  To solve problem like those here:  <http://www.lightoj.com/volume_showproblem.php?problem=1122>  <http://www.lightoj.com/volume_showproblem.php?problem=1122>  <http://www.lightoj.com/volume_showproblem.php?problem=1125>  THanks :)  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**Shafaet**](https://codeforces.com/profile/Shafaet) | 7 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-130176" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-128338) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **+1** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  I don't know what you meant by "digit dp" but these are very simple dp problems. For example in "1122 — Digit Count" your state can be (number of digits taken so far, last digit taken), now you can just add new numbers if it is valid, go to next state and add the answers.  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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| [**shakil**](https://codeforces.com/profile/shakil) | 7 years ago, [#](https://codeforces.com/blog/entry/325?" \l "comment-130349" \o "Link to comment) [^](https://codeforces.com/blog/entry/325#comment-128338) |  [Vote: I like it](https://codeforces.com/blog/entry/325) **0** [Vote: I do not like it](https://codeforces.com/blog/entry/325)  For the problem 1125, your DP should have three states like [current position of the array][how many left to take][remainder of the sums of the chosen elements].  suppose you are in a state like this [25][2][5]  then you can either  **1.** take the 25th element and add it to remainder and mod it which will take you to the state [26][1][ (5+X[25] + mod)%mod ]  **2.** or you can skip it and go to the next state which will be then [26][2][5]  By this way you can figure out all the possible combinations.  [Here is my source code -->](http://ideone.com/3X3Xig)  [→](https://codeforces.com/blog/entry/325) [Reply](https://codeforces.com/blog/entry/325) |

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