

Practice Problems for DP

- **Level Easy:**

1. [https://practice.geeksforgeeks.org/problems/reach-a-given-score-1587115621/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&page=1&query=category\[\]Dynamic%20Programmingpage1category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/reach-a-given-score-1587115621/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&page=1&query=category[]Dynamic%20Programmingpage1category[]Dynamic%20Programming)
2. [https://practice.geeksforgeeks.org/problems/number-of-unique-paths5339/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=0&page=1&query=category\[\]Dynamic%20Programmingdifficulty\[\]0page1category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/number-of-unique-paths5339/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=0&page=1&query=category[]Dynamic%20Programmingdifficulty[]0page1category[]Dynamic%20Programming)
3. [https://practice.geeksforgeeks.org/problems/maximum-sum-problem2211/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=0&page=1&query=category\[\]Dynamic%20Programmingdifficulty\[\]0page1category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/maximum-sum-problem2211/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=0&page=1&query=category[]Dynamic%20Programmingdifficulty[]0page1category[]Dynamic%20Programming)
4. [https://practice.geeksforgeeks.org/problems/nth-catalan-number0817/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=0&page=2&query=category\[\]Dynamic%20Programmingdifficulty\[\]0page2category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/nth-catalan-number0817/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=0&page=2&query=category[]Dynamic%20Programmingdifficulty[]0page2category[]Dynamic%20Programming)
5. [https://practice.geeksforgeeks.org/problems/find-if-string-is-k-palindrome-or-not1923/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=0&page=2&query=category\[\]Dynamic%20Programmingdifficulty\[\]0page2category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/find-if-string-is-k-palindrome-or-not1923/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=0&page=2&query=category[]Dynamic%20Programmingdifficulty[]0page2category[]Dynamic%20Programming)
6. [https://practice.geeksforgeeks.org/problems/geek-and-its-game-of-coins4043/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=0&page=2&query=category\[\]Dynamic%20Programmingdifficulty\[\]0page2category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/geek-and-its-game-of-coins4043/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=0&page=2&query=category[]Dynamic%20Programmingdifficulty[]0page2category[]Dynamic%20Programming)
7. [https://practice.geeksforgeeks.org/problems/you-and-your-books1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=0&page=1&query=category\[\]Dynamic%20Programmingdifficulty\[\]0page1category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/you-and-your-books1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=0&page=1&query=category[]Dynamic%20Programmingdifficulty[]0page1category[]Dynamic%20Programming)
8. [https://practice.geeksforgeeks.org/problems/telephone-number-or-involution-number4412/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=0&page=2&query=category\[\]Dynamic%20Programmingdifficulty\[\]0page2category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/telephone-number-or-involution-number4412/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=0&page=2&query=category[]Dynamic%20Programmingdifficulty[]0page2category[]Dynamic%20Programming)
9. [https://practice.geeksforgeeks.org/problems/minimum-insertions-to-sort-an-array0535/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=0&page=2&query=category\[\]Dynamic%20Programmingdifficulty\[\]0page2category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/minimum-insertions-to-sort-an-array0535/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=0&page=2&query=category[]Dynamic%20Programmingdifficulty[]0page2category[]Dynamic%20Programming)

- **Level Medium:**

1. [https://practice.geeksforgeeks.org/problems/count-ways-to-increase-lcs-length-of-two-strings-by-one2236/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=1&page=1&sortBy=newest&query=category\[\]Dynamic%20Programmingdifficulty\[\]1page1sortBynewestcategory\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/count-ways-to-increase-lcs-length-of-two-strings-by-one2236/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=1&page=1&sortBy=newest&query=category[]Dynamic%20Programmingdifficulty[]1page1sortBynewestcategory[]Dynamic%20Programming)
2. [https://practice.geeksforgeeks.org/problems/jump-game1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=1&page=2&sortBy=newest&query=category\[\]Dynamic%20Programmingdifficulty\[\]1page2sortBynewestcategory\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/jump-game1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=1&page=2&sortBy=newest&query=category[]Dynamic%20Programmingdifficulty[]1page2sortBynewestcategory[]Dynamic%20Programming)
3. [https://practice.geeksforgeeks.org/problems/total-decoding-messages1235/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=1&page=2&sortBy=newest&query=category\[\]Dynamic%20Programmingdifficulty\[\]1page2sortBynewestcategory\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/total-decoding-messages1235/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=1&page=2&sortBy=newest&query=category[]Dynamic%20Programmingdifficulty[]1page2sortBynewestcategory[]Dynamic%20Programming)

4. [https://practice.geeksforgeeks.org/problems/sisters-and-coins2253/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=1&page=2&sortBy=newest&query=category\[\]Dynamic%20Programmingdifficulty\[\]1page2sortBynewestcategory\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/sisters-and-coins2253/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=1&page=2&sortBy=newest&query=category[]Dynamic%20Programmingdifficulty[]1page2sortBynewestcategory[]Dynamic%20Programming)
 5. [https://practice.geeksforgeeks.org/problems/snake-and-ladder-problem4816/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=1&page=2&sortBy=newest&query=category\[\]Dynamic%20Programmingdifficulty\[\]1page2sortBynewestcategory\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/snake-and-ladder-problem4816/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=1&page=2&sortBy=newest&query=category[]Dynamic%20Programmingdifficulty[]1page2sortBynewestcategory[]Dynamic%20Programming)
 6. [https://practice.geeksforgeeks.org/problems/optimal-binary-search-tree2214/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=1&page=2&sortBy=newest&query=category\[\]Dynamic%20Programmingdifficulty\[\]1page2sortBynewestcategory\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/optimal-binary-search-tree2214/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=1&page=2&sortBy=newest&query=category[]Dynamic%20Programmingdifficulty[]1page2sortBynewestcategory[]Dynamic%20Programming)
 7. [https://practice.geeksforgeeks.org/problems/pass-the-semester2515/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=1&page=3&sortBy=newest&query=category\[\]Dynamic%20Programmingdifficulty\[\]1page3sortBynewestcategory\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/pass-the-semester2515/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=1&page=3&sortBy=newest&query=category[]Dynamic%20Programmingdifficulty[]1page3sortBynewestcategory[]Dynamic%20Programming)
 8. [https://practice.geeksforgeeks.org/problems/mobile-numeric-keypad5456/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=1&page=4&sortBy=newest&query=category\[\]Dynamic%20Programmingdifficulty\[\]1page4sortBynewestcategory\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/mobile-numeric-keypad5456/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=1&page=4&sortBy=newest&query=category[]Dynamic%20Programmingdifficulty[]1page4sortBynewestcategory[]Dynamic%20Programming)
- **Level Quite Difficult:**
 1. [https://practice.geeksforgeeks.org/problems/adventure-in-a-maze2051/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=2&page=1&query=category\[\]Dynamic%20Programmingdifficulty\[\]2page1category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/adventure-in-a-maze2051/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=2&page=1&query=category[]Dynamic%20Programmingdifficulty[]2page1category[]Dynamic%20Programming)
 2. [https://practice.geeksforgeeks.org/problems/convert-to-strictly-increasing-array3351/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=2&page=1&query=category\[\]Dynamic%20Programmingdifficulty\[\]2page1category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/convert-to-strictly-increasing-array3351/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=2&page=1&query=category[]Dynamic%20Programmingdifficulty[]2page1category[]Dynamic%20Programming)
 3. [https://practice.geeksforgeeks.org/problems/queries-on-a-matrix0443/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=2&page=1&query=category\[\]Dynamic%20Programmingdifficulty\[\]2page1category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/queries-on-a-matrix0443/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=2&page=1&query=category[]Dynamic%20Programmingdifficulty[]2page1category[]Dynamic%20Programming)
 4. [https://practice.geeksforgeeks.org/problems/longest-zig-zag-sub-sequence2656/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=2&page=1&query=category\[\]Dynamic%20Programmingdifficulty\[\]2page1category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/longest-zig-zag-sub-sequence2656/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=2&page=1&query=category[]Dynamic%20Programmingdifficulty[]2page1category[]Dynamic%20Programming)
 5. [https://practice.geeksforgeeks.org/problems/minimum-insertions-to-make-two-arrays-equal/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=2&page=2&query=category\[\]Dynamic%20Programmingdifficulty\[\]2page2category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/minimum-insertions-to-make-two-arrays-equal/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=2&page=2&query=category[]Dynamic%20Programmingdifficulty[]2page2category[]Dynamic%20Programming)
 6. [https://practice.geeksforgeeks.org/problems/7b9d245852bd8caf8a27d6d3961429f0a2b245f1/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=2&page=2&query=category\[\]Dynamic%20Programmingdifficulty\[\]2page2category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/7b9d245852bd8caf8a27d6d3961429f0a2b245f1/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=2&page=2&query=category[]Dynamic%20Programmingdifficulty[]2page2category[]Dynamic%20Programming)
 7. [https://practice.geeksforgeeks.org/problems/count-occurences-of-a-given-word-in-a-2-d-array/1/?category\[\]=Dynamic%20Programming&category\[\]=Dynamic%20Programming&difficulty\[\]=2&page=2&query=category\[\]Dynamic%20Programmingdifficulty\[\]2page2category\[\]Dynamic%20Programming](https://practice.geeksforgeeks.org/problems/count-occurences-of-a-given-word-in-a-2-d-array/1/?category[]=Dynamic%20Programming&category[]=Dynamic%20Programming&difficulty[]=2&page=2&query=category[]Dynamic%20Programmingdifficulty[]2page2category[]Dynamic%20Programming)

More Problems on DP: <https://atcoder.jp/contests/dp/tasks>