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## **Online Judge**

Below are a collection of questions for you to practice. Click on the question's title to expand the question description. Read the question and try to solve it by clicking on the "Solve this problem" link. You may start typing your code in the coding panel (bottom right side).

Once done, run your solution against the judge's secret input to see if you've solved it correctly. It's that easy!

Happy coding and remember to Follow or Like LeetCode and get the latest update when a new question is added!

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### IMPORTANT:

The Solution object is instantiated only once and is reused for each test case input. When declaring a class member variable, be extra cautious and remember to reset the variable!

Welcome,  $\emph{moonlin}!$  You have solved 126 / 132 problems.

Questions List: (Click on title to expand)

Sort questions by: [title] [freshness]

√ 3Sum Closest

Given an array S of n integers, find three integers in S such that the sum is closest to a given number, target. Return the sum of the three integers. You may assume that each input would have

For example, given array  $S = \{-1 \ 2 \ 1 \ -4\}$ , and target = 1.

The sum that is closest to the target is 2. (-1 + 2 + 1 = 2).

» Solve this problem

exactly one solution.

(link to this question)



Note:

- ullet Elements in a triplet (a,b,c) must be in non-descending order. (ie,  $a\ ?\ b\ ?\ c)$
- The solution set must not contain duplicate triplets.

For example, given array S = {-1 0 1 2 -1 -4},

A solution set is:
(-1, 0, 1)
(-1, -1, 2)

\*\* Solve this problem (link to this question)

" Solve this proble

6382 / Jan 27 '12

✓ 4Sum

Given an array S of n integers, are there elements a, b, c, and d in S such c are c + c + d = target? Find all unique quadruplets in the array which gives the sum of target.

Note:

- ullet Elements in a quadruplet (a, b, c, d) must be in non-descending order. (ie, a ? b ? c ? d)
- The solution set must not contain duplicate quadruplets.

For example, given array S = {1 0 -1 0 -2 2}, and target = 0.

A solution set is:
(-1, 0, 0, 1)
(-2, -1, 1, 2)
(-2, 0, 0, 2)

» Solve this problem (link to this question) ✓ Add Binary 16556 Given two binary strings, return their sum (also a binary string). For example, a = **"11"** b = **"1"** Return "100".  $\gg$  Solve this problem (link to this question) ✓ Add Two Numbers 9607 / You are given two linked lists representing two non-negative numbers. The digits are stored in reverse order and each of their nodes contain a single digit. Add the two numbers and return it as a linked list. **Input:** (2 -> 4 -> 3) + (5 -> 6 -> 4) **Output:** 7 -> 0 -> 8  $\operatorname{\text{\it w}}$  Solve this problem (link to this question) ✓ Anagrams Given an array of strings, return all groups of strings that are anagrams. Note: All inputs will be in lower-case. » Solve this problem ✓ Balanced Binary Tree Given a binary tree, determine if it is height-balanced. For this problem, a height-balanced binary tree is defined as a binary tree in which the depth of the two subtrees of every node never differ by more than 1. » Solve this problem (link to this question) ✓ Best Time to Buy and Sell Stock III Say you have an array for which the  $i^{th}$  element is the price of a given stock on way 1. Design an algorithm to find the maximum profit. You may complete at most two transactions. You may not engage in multiple transactions at the same time (ie, you must sell the stock before you buy again). » Solve this problem (link to this question) ✓ Best Time to Buy and Sell Stock II Say you have an array for which the  $i^{\rm th}$  element is the price of a given stock on way 2. Design an algorithm to find the maximum profit. You may complete as many transactions as you like (ie, buy one and sell one share of the stock multiple times). However, you may not engage in multiple transactions at the same time (ie, you must sell the stock before you buy again). » Solve this problem (link to this question) ✓ Best Time to Buy and Sell Stock 7527 / Oct 30 '12 Say you have an array for which the  $i^{\rm th}$  element is the price of a given stock on way 2. If you were only permitted to complete at most one transaction (ie, buy one and sell one share of the stock), design an algorithm to find the maximum profit. » Solve this problem (link to this question) ✓ Binary Tree Inorder Traversal Given a binary tree, return the inorder traversal of its nodes' values. For example: Given binary tree  $\{1,\#,2,3\}$ ,

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2

```
return [1,3,2].
               Note: Recursive solution is trivial, could you do it iteratively?
               confused what \begin{tabular}{ll} \begin{tab
               » Solve this problem
                                                                                                                                                                                                                 (link to this question)
                                                                                                                                                                                                            4449 / Oct 1 '12

✓ Binary Tree Level Order Traversal II

               Given a binary tree, return the bottom-up level order traversal of its nodes values. (ie, from
               left to right, level by level from leaf to root).
               Given binary tree {3,9,20,\#,\#,15,7},
                             3
                           / \
                         9 20
                            / \
                           15 7
               return its bottom-up level order traversal as:
                   [
                        [15,7]
                         [9,20],
                         [3],
               confused what "\{1,\#,2,3\}" means? > read more on how binary tree is serialized on OJ.
               » Solve this problem
                                                                                                                                                                                                               (link to this question)
                                                                                                                                                                                                            5832 / Sep 29 '12
✔ Binary Tree Level Order Traversal
               Given a binary tree, return the level order traversal of its nodes' values.
               right, level by level).
               For example:
               Given binary tree {3,9,20,#,#,15,7},
                             3
                           /\
                         9 20
                            / \
                           15 7
               return its level order traversal as:
                   [
                        [3],
                         [9,20],
                         [15,7]
               confused what "\{1,\#,2,3\}" means? > read more on how binary tree is serialized on OJ.
               » Solve this problem
                                                                                                                                                                                                                 (link to this question)
                                                                                                                                                                                                            7312 / Nov 8 '12

✓ Binary Tree Maximum Path Sum

                                                                                                                                                                                                            26768
               Given a binary tree, find the maximum path sum.
               The path may start and end at any node in the tree.
               For example:
               Given the below binary tree,
                                 1
                                   /\
                                 2 3
```

```
Return 6.
      » Solve this problem
                                                                                           (link to this question)
                                                                                        4378 / Sep 29 '12

√ Binary Tree Zigzag Level Order Traversal

      Given a binary tree, return the zigzag level order traversal of its nodes' values. (1e, from left
      to right, then right to left for the next level and alternate between).
      Given binary tree {3,9,20,#,#,15,7},
             3
            /\
           9 20
            / \
            15 7
      return its zigzag level order traversal as:
          [3],
           [20,9],
           [15,7]
      confused what "\{1,\#,2,3\}" means? > read more on how binary tree is serialized on OJ.
      » Solve this problem
                                                                                          (link to this question)
                                                                                         6879 /

✓ Climbing Stairs

      You are climbing a stair case. It takes n steps to reach to the top.
      Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?
      » Solve this problem
                                                                                          (link to this question)
                                                                                        4784 / Mar 7 '12

✓ Combination Sum II

      Given a collection of candidate numbers (\mathcal{C}) and a target number (\mathcal{T}), find al. unique combinations
      in {\mathcal C} where the candidate numbers sums to {\mathcal T}.
      Each number in \mathcal{C} may only be used once in the combination.
      Note:
          \bullet All numbers (including target) will be positive integers.
          • Elements in a combination (a_1, a_2, \bullet, a_k) must be in non-descending order. (ie, a_1 ? a_2 ?
             ♦ ? a<sub>k</sub>).
          • The solution set must not contain duplicate combinations.
      For example, given candidate set 10,1,2,7,6,1,5 and target 8,
      A solution set is:
      [1, 7]
       [1, 2, 5]
      [2, 6]
      [1, 1, 6]
      » Solve this problem
                                                                                           (link to this question)
                                                                                          6099 / Mar 7 '12

✓ Combination Sum

      Given a set of candidate numbers (C) and a target number (T), find all unique communacions in C
      where the candidate numbers sums to \emph{T}.
      The same repeated number may be chosen from {\cal C} unlimited number of times.
          \bullet All numbers (including target) will be positive integers.
          ullet Elements in a combination (a_1,\ a_2,\ ullet , a_k) must be in non-descending order. (ie, a_1 ? a_2 ?

♦ ? a<sub>k</sub>).
          ullet The solution set must not contain duplicate combinations.
      For example, given candidate set 2,3,6,7 and target 7,
      A solution set is:
       [7]
       [2, 2, 3]
```

```
» Solve this problem
                                                                                     5708 / Apr 18 '12

✓ Combinations

      Given two integers n and k, return all possible combinations of k numbers out of n ... n.
      For example,
      If n = 4 and k = 2, a solution is:
          [2,4],
          [3,4],
          [2,3],
          [1,2],
          [1,3],
          [1,4],
      » Solve this problem
                                                                                      (link to this question)

✓ Construct Binary Tree from Inorder and Postorder Traversal

      Given inorder and postorder traversal of a tree, construct the binary tree.
      Note:
      You may assume that duplicates do not exist in the tree.
      » Solve this problem
                                                                                      (link to this question)
✔ Construct Binary Tree from Preorder and Inorder Traversal
                                                                                    4869 / Sep 30 '12
      Given preorder and inorder traversal of a tree, construct the binary tree.
      You may assume that duplicates do not exist in the tree.
      » Solve this problem
                                                                                      (link to this question)

✓ Container With Most Water

      Given n non-negative integers a_{p} a_{2} ..., a_{m} where each represents a point a_{1} coordinate (i, a_{j}).
      n vertical lines are drawn such that the two endpoints of line i is at (i, a_i) and (i, 0). Find
      two lines, which together with x-axis forms a container, such that the container contains the
      most water.
      Note: You may not slant the container.
      » Solve this problem
                                                                                      (link to this question)

✓ Convert Sorted Array to Binary Search Tree

      Given an array where elements are sorted in ascending order, convert it to a neight valanced BST.
      » Solve this problem
                                                                                      (link to this question)

✓ Convert Sorted List to Binary Search Tree

      Given a singly linked list where elements are sorted in ascending order, convert it to a height
      balanced BST.
      » Solve this problem
                                                                                      (link to this question)

✓ Count and Say
      The count-and-say sequence is the sequence of integers beginning as follows:
      1, 11, 21, 1211, 111221, ...
      1 is read off as "one 1" or 11.
      11 is read off as "two 1s" or 21.
      21 is read off as "one 2, then one 1" or 1211.
      Given an integer n, generate the n^{\rm th} sequence.
      Note: The sequence of integers will be represented as a string.
      » Solve this problem
                                                                                      (link to this question)
      A message containing letters from A-Z is being encoded to numbers using the rollowing mapping:
        'A' -> 1
        'B' -> 2
```

```
'Z' -> 26
      Given an encoded message containing digits, determine the total number of ways to decode it.
      Given encoded message "12", it could be decoded as "AB" (1 2) or "L" (12).
      The number of ways decoding "12" is 2.
      » Solve this problem
                                                                                     (link to this question)
                                                                                   6266 / Oct 19 '12

✓ Distinct Subsequences

      Given a string S and a string T, count the number of distinct subsequences G_1 in G_2.
      A subsequence of a string is a new string which is formed from the original string by deleting
      some (can be none) of the characters without disturbing the relative positions of the remaining
      characters. (ie, "ACE" is a subsequence of "ABCDE" while "AEC" is not).
      Here is an example:
      S = "rabbbit", T = "rabbit"
      Return 3.
      » Solve this problem
                                                                                     (link to this question)
   Divide Two Integers
      Divide two integers without using multiplication, division and mod operator.
                                                                                     (link to this question)
      » Solve this problem

✓ Edit Distance

      Given two words word1 and word2, find the minimum number of steps required to convert word1 to
      word2. (each operation is counted as 1 step.)
      You have the following 3 operations permitted on a word:
      a) Insert a character
      b) Delete a character
      c) Replace a character
      » Solve this problem
                                                                                     (link to this question)
                                                                                     5758 / Mar 8 '12

✓ First Missing Positive

                                                                                   17962
      Given an unsorted integer array, find the first missing positive integer.
      For example,
      Given [1,2,0] return 3,
      and [3,4,-1,1] return 2.
      Your algorithm should run in \mathcal{O}(n) time and uses constant space.
      » Solve this problem
                                                                                     (link to this question)
                                                                                  7105 / Oct 14 '12

✓ Flatten Binary Tree to Linked List

      Given a binary tree, flatten it to a linked list in-place.
      For example,
      Given
      The flattened tree should look like:
```

```
6
             click to show hints.
            » Solve this problem
                                                                                                                                                                          (link to this question)

✓ Generate Parentheses

            Given n pairs of parentheses, write a function to generate all combinations of well formed
            For example, given n = 3, a solution set is:
             "((()))", "(()())", "(())()", "()(())", "()()()"
            » Solve this problem
                                                                                                                                                                          (link to this question)
                                                                                                                                                                      3727 / May 20 '12

✓ Gray Code

            The gray code is a binary numeral system where two successive values differ in only one bit.
            Given a non-negative integer n representing the total number of bits in the code, print the
            sequence of gray code. A gray code sequence must begin with \boldsymbol{0}.
             For example, given n = 2, return [0,1,3,2]. Its gray code sequence is:
                00 - 0
                01 - 1
                11 - 3
                10 - 2
            For a given n, a gray code sequence is not uniquely defined.
            For example, [0,2,3,1] is also a valid gray code sequence according to the above definition.
            For now, the judge is able to judge based on one instance of gray code sequence. Sorry about
            that.
            » Solve this problem
                                                                                                                                                                         (link to this question)
  ✓ Implement strStr()
            Implement strStr().
            Returns a pointer to the first occurrence of needle in haystack, or null if needle is not part of
            haystack.
            » Solve this problem
                                                                                                                                                                         (link to this question)
✓ Insert Interval
                                                                                                                                                                     5301 / Mar 27 '12
            Given a set of non-overlapping intervals, insert a new interval into the intervals concerns into the intervals of the contract of the contract
            necessary).
            You may assume that the intervals were initially sorted according to their start times.
            Given intervals [1,3],[6,9], insert and merge [2,5] in as [1,5],[6,9].
            Example 2:
            Given [1,2],[3,5],[6,7],[8,10],[12,16], insert and merge [4,9] in as [1,2],[3,10],[12,16].
            This is because the new interval [4,9] overlaps with [3,5],[6,7],[8,10].
            » Solve this problem
                                                                                                                                                                          (link to this question)
      Integer to Roman
            Given an integer, convert it to a roman numeral.
            Input is guaranteed to be within the range from 1 to 3999.
            \gg Solve this problem
                                                                                                                                                                         (link to this question)
✓ Interleaving String
                                                                                                                                                                        24208
            Given s1, s2, s3, find whether s3 is formed by the interleaving of s1 and s2.
            For example,
```

Given:
s1 = "aabcc",

```
s2 = "dbbca",
      When s3 = "aadbbcbcac", return true.
      When s3 = "aadbbbaccc", return false.
      » Solve this problem
                                                                                      (link to this question)
                                                                                      7347 / Mar 17 '12
✓ Jump Game II
      Given an array of non-negative integers, you are initially positioned at the 11150 11100 of the
      Each element in the array represents your maximum jump length at that position.
      Your goal is to reach the last index in the minimum number of jumps.
      For example:
      Given array A = [2,3,1,1,4]
      The minimum number of jumps to reach the last index is {f 2}. (Jump {f 1} step from index 0 to 1, then
      3 steps to the last index.)
      » Solve this problem
                                                                                      (link to this question)

√ Jump Game

      Given an array of non-negative integers, you are initially positioned at the mass muex of the
      Each element in the array represents your maximum jump length at that position.
      Determine if you are able to reach the last index.
      For example:
      A = [2,3,1,1,4], return true.
      A = [3,2,1,0,4], return false.
      » Solve this problem
                                                                                      (link to this question)
✓ Largest Rectangle in Histogram
      Given n non-negative integers representing the histogram's bar height where one whoch of each bar
      is 1, find the area of largest rectangle in the histogram.
                 5
            1
      Above is a histogram where width of each bar is 1, given height = [2,1,5,6,2,3].
                         2
      The largest rectangle is shown in the shaded area, which has area = 10 unit.
      For example,
      Given height = [2,1,5,6,2,3],
      return 10.
      » Solve this problem
                                                                                      (link to this question)
✓ Length of Last Word
      Given a string s consists of upper/lower-case alphabets and empty space characters , return
```

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the length of last word in the string.

If the last word does not exist, return 0. Note: A word is defined as a character sequence consists of non-space characters only. For example, Given s = "Hello World", return 5. » Solve this problem (link to this question) ✓ Letter Combinations of a Phone Number Given a digit string, return all possible letter combinations that the number course represent. A mapping of digit to letters (just like on the telephone buttons) is given below. 9 wx Input:Digit string "23" Output: ["ad", "ae", "af", "bd", "be", "bf", "cd", "ce", "cf"]. Note: Although the above answer is in lexicographical order, your answer could be in any order you want. » Solve this problem (link to this question) √ Longest Common Prefix Write a function to find the longest common prefix string amongst an array or strings. » Solve this problem (link to this question) ✓ Longest Consecutive Sequence Given an unsorted array of integers, find the length of the longest consecutive elements sequence. For example, Given [100, 4, 200, 1, 3, 2], The longest consecutive elements sequence is [1, 2, 3, 4]. Return its length: 4. Your algorithm should run in O(n) complexity.  $\gg$  Solve this problem (link to this question) ✓ Longest Palindromic Substring Given a string S, find the longest palindromic substring in S. You may assume that the maximum length of S is 1000, and there exists one unique longest palindromic substring. » Solve this problem (link to this question) ✓ Longest Substring Without Repeating Characters Given a string, find the length of the longest substring without repeating characters. For example, the longest substring without repeating letters for "abcabcbb" is "abc", which the length is 3. For "bbbbb" the longest substring is "b", with the length of 1. » Solve this problem (link to this question) 6113 / ✓ Longest Valid Parentheses Mar 1 '12 Given a string containing just the characters '(' and ')', find the length of the longest valid (well-formed) parentheses substring. For "(()", the longest valid parentheses substring is "()", which has length = 2. Another example is ")()())", where the longest valid parentheses substring is "()()", which has length = 4.» Solve this problem (link to this question) ✓ Maximal Rectangle 3792 / Apr 24 '12

http://leetcode.com/onlinejudge

Given a 2D binary matrix filled with 0's and 1's, find the largest rectangle concarning all ones

```
and return its area.
      » Solve this problem
                                                                                       (link to this question)

✓ Maximum Depth of Binary Tree

      Given a binary tree, find its maximum depth.
      The maximum depth is the number of nodes along the longest path from the root node down to the
      farthest leaf node.
      » Solve this problem
                                                                                       (link to this question)
                                                                                       5966 / Mar 21 '12

√ Maximum Subarray

      Find the contiguous subarray within an array (containing at least one number, which has the
      largest sum.
      For example, given the array [-2,1,-3,4,-1,2,1,-5,4],
      the contiguous subarray [4,-1,2,1] has the largest sum = 6.
      click to show more practice
      » Solve this problem
                                                                                       (link to this question)
                                                                                     7725 / Mar 28 '11

✓ Median of Two Sorted Arrays

      There are two sorted arrays A and B of size m and n respectively. Find the median of the two
      sorted arrays. The overall run time complexity should be 0(\log (m+n)).
      » Solve this problem
                                                                                       (link to this question)
                                                                                      5655 / Mar 27 '12

✓ Merge Intervals

      Given a collection of intervals, merge all overlapping intervals.
      For example,
      Given [1,3],[2,6],[8,10],[15,18],
      return [1,6],[8,10],[15,18].
      » Solve this problem
                                                                                       (link to this question)

✓ Merge k Sorted Lists

      Merge k sorted linked lists and return it as one sorted list. Analyze and describe its
      complexity.
      » Solve this problem
                                                                                       (link to this question)
                                                                                       6055 / May 20 '12

✓ Merge Sorted Array

      Given two sorted integer arrays A and B, merge B into A as one sorted array.
      You may assume that A has enough space to hold additional elements from B. The number of elements
      initialized in A and B are m and n respectively.
      » Solve this problem
                                                                                       (link to this question)
✓ Merge Two Sorted Lists
      13388
Merge two sorted linked lists and return it as a new list. The new list shouια νε μασιο by
      splicing together the nodes of the first two lists.
      » Solve this problem
                                                                                       (link to this question)

✓ Minimum Depth of Binary Tree

      Given a binary tree, find its minimum depth.
      The minimum depth is the number of nodes along the shortest path from the root node down to the
      nearest leaf node.
      » Solve this problem
                                                                                       (link to this question)
                                                                                     4584 / Mar 29 '12

✓ Minimum Path Sum

      Given a m \times n grid filled with non-negative numbers, find a path from top length to bostom right
      which minimizes the sum of all numbers along its path.
      Note: You can only move either down or right at any point in time.
      » Solve this problem
                                                                                       (link to this question)

✓ Minimum Window Substring

      Given a string S and a string T, find the minimum window in S which will concain an one
```

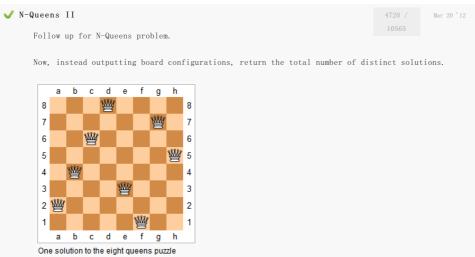
```
characters in T in complexity O(n).
      For example,
      S = "ADOBECODEBANC"
      T = "ABC"
      Minimum window is "BANC".
      If there is no such window in S that covers all characters in T, return the emtpy string "".
      If there are multiple such windows, you are guaranteed that there will always be only one unique
      minimum window in S.
      » Solve this problem
                                                                                     (link to this question)

✓ Multiply Strings

      Given two numbers represented as strings, return multiplication of the numbers as a scring.
```

Note: The numbers can be arbitrarily large and are non-negative.

» Solve this problem (link to this question)



√ N-Queens

(link to this question)

The n-queens puzzle is the problem of placing n queens on an  $n \spadesuit n$  chessboard  $\frac{12479}{\text{such that}}$  no two queens attack each other.



» Solve this problem

Given an integer  $\emph{n},$  return all distinct solutions to the  $\emph{n}\text{-}\text{queens}$  puzzle.

Each solution contains a distinct board configuration of the  $\it n\!$ -queens' placement, where 'Q' and '.' both indicate a queen and an empty space respectively.

For example.

There exist two distinct solutions to the 4-queens puzzle:

```
[".Q..", // Solution 1
 "...Q",
 "Q...",
 "..Q."],
["..Q.", // Solution 2
```

```
"Q...",
          "...Q",
          ".Q.."]
        ]
      » Solve this problem
✓ Next Permutation
      Implement next permutation, which rearranges numbers into the lexicographically next greater
      permutation of numbers.
      If such arrangement is not possible, it must rearrange it as the lowest possible order (ie,
      sorted in ascending order).
      The replacement must be in-place, do not allocate extra memory.
      Here are some examples. Inputs are in the left-hand column and its corresponding outputs are in
      the right-hand column.
      1,2,3 → 1,3,2
      3,2,1 → 1,2,3
      1,1,5 → 1,5,1
      » Solve this problem
                                                                                     (link to this question)
✓ Palindrome Number
                                                                                     19000
      Determine whether an integer is a palindrome. Do this without extra space.
      click to show spoilers.
      » Solve this problem
                                                                                     (link to this question)
                                                                                    13297 / Mar 1
✓ Palindrome Partitioning II
      Given a string s, partition s such that every substring of the partition is a parameter \frac{47208}{s}
      Return the minimum cuts needed for a palindrome partitioning of s.
      For example, given s = "aab",
      Return {\bf 1} since the palindrome partitioning ["aa","b"] could be produced using 1 cut.
      » Solve this problem
✓ Palindrome Partitioning
      Given a string s, partition s such that every substring of the partition is a parimuloume.
      Return all possible palindrome partitioning of s.
      For example, given s = "aab",
      Return
            ["aa","b"],
             ["a", "a", "b"]
      » Solve this problem
                                                                                      (link to this question)
                                                                                     5164 / Apr 30 '12
✓ Partition List
      Given a linked list and a value x, partition it such that all nodes less than x come before nodes
      greater than or equal to x.
      You should preserve the original relative order of the nodes in each of the two partitions.
      For example,
      Given 1->4->3->2->5->2 and x=3,
      return 1->2->2->4->3->5.
      » Solve this problem
                                                                                     (link to this question)
                                                                                   5210 / Oct 29 '12
✓ Pascal's Triangle II
      Given an index k, return the k^{\rm th} row of the Pascal's triangle.
      For example, given k = 3,
      Return [1,3,3,1].
      Could you optimize your algorithm to use only O(k) extra space?
```

» Solve this problem (link to this question) 4857 / Oct 28 '12 ✓ Pascal's Triangle 10981 Given numRows, generate the first numRows of Pascal's triangle. For example, given *numRows* = 5, Return [ [1], [1,1], [1,2,1], [1,3,3,1], [1,4,6,4,1] » Solve this problem (link to this question) 6392 / Oct 14 '12 ✓ Path Sum II Given a binary tree and a sum, find all root-to-leaf paths where each path's sum equals the given For example: Given the below binary tree and sum = 22, 5 / \ 4 8 11 13 4 / \ / \ 7 2 5 1 return [ [5,4,11,2], [5,8,4,5] ] » Solve this problem (link to this question) ✓ Path Sum Given a binary tree and a sum, determine if the tree has a root-to-leaf path such chair adding up all the values along the path equals the given sum. Given the below binary tree and sum = 22, 5 /\ 4 8 / /\ 11 13 4 return true, as there exist a root-to-leaf path 5->4->11->2 which sum is 22. » Solve this problem (link to this question) 4190 / Mar 28 '12 ✓ Permutation Sequence The set [1,2,3,...,n] contains a total of n! unique permutations. By listing and labeling all of the permutations in order, We get the following sequence (ie, for n = 3): • "123" • "132" • "213"

"231""312""321"

Given n and k, return the  $k^{\rm th}$  permutation sequence.

Note: Given n will be between 1 and 9 inclusive.

» Solve this problem

(link to this question)

```
✓ Permutations II

Given a collection of numbers that might contain duplicates, return all possible unique permutations.

For example,

[1,1,2] have the following unique permutations:

[1,1,2], [1,2,1], and [2,1,1].

Solve this problem

(link to this question)
```

✓ Permutations

6281 / Mar 17 '12

14628

Given a collection of numbers, return all possible permutations.

For example,

[1,2,3] have the following permutations:

[1,2,3], [1,3,2], [2,1,3], [2,3,1], [3,1,2], and [3,2,1].

» Solve this problem

(link to this question)

```
✓ Plus One

Given a number represented as an array of digits, plus one to the number.

Solve this problem

5323 /
12479

12479

(link to this question)
```

✔ Populating Next Right Pointers in Each Node II

5299 / Oct 28 '12

 $\label{thm:policy:continuous} Follow \ up \ for \ problem \ \textit{"Populating Next Right Pointers in Each Node"}.$ 

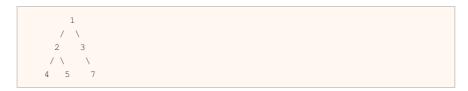
What if the given tree could be any binary tree? Would your previous solution still work?

### Note:

 $\bullet$  You may only use constant extra space.

For example,

Given the following binary tree,



After calling your function, the tree should look like:

```
1 -> NULL
/ \
2 -> 3 -> NULL
/ \
4-> 5 -> 7 -> NULL
```

» Solve this problem

(link to this question)

```
✓ Populating Next Right Pointers in Each Node
Given a binary tree

    struct TreeLinkNode {
        TreeLinkNode *left;
        TreeLinkNode *right;
        TreeLinkNode *next;
        }

    Populate each next pointer to point to its next right node. If there is no next right node, the
```

Populate each next pointer to point to its next right node. If there is no next right node, th next pointer should be set to NULL.

Initially, all next pointers are set to  $\ensuremath{\mathsf{NULL}}$  .

Note:

```
• You may only use constant extra space.
         • You may assume that it is a perfect binary tree (ie, all leaves are at the same level, and
           every parent has two children).
      For example,
      Given the following perfect binary tree,
              1
              / \
             2 3
             / \ / \
            4 5 6 7
      After calling your function, the tree should look like:
                1 -> NULL
              / \
             2 -> 3 -> NULL
             / \ / \
            4->5->6->7 -> NULL
     » Solve this problem
                                                                                 (link to this question)
                                                                               10568 / Mar 20 '12
✓ Pow(x, n)
                                                                               27368
      Implement pow(x, n).
      » Solve this problem
                                                                                 (link to this question)
                                                                               4967 / Sep 1 '12

✓ Recover Binary Search Tree

                                                                               16821
      Two elements of a binary search tree (BST) are swapped by mistake.
      Recover the tree without changing its structure.
      A solution using 0 \, (n) space is pretty straight forward. Could you devise a constant space
     solution?
      confused what "{1,#,2,3}" means? > read more on how binary tree is serialized on OJ.
     » Solve this problem
                                                                                 (link to this question)

✓ Regular Expression Matching

      Implement regular expression matching with support for "." and "*".
       '.' Matches any single character.
       '*' Matches zero or more of the preceding element.
       The matching should cover the entire input string (not partial).
       The function prototype should be:
       bool isMatch(const char *s, const char *p)
       Some examples:
       isMatch("aa","a") ? false
       isMatch("aa", "aa") ? true
       isMatch("aaa", "aa") ? false
       isMatch("aa", "a*") ? true
       isMatch("aa", ".*") ? true
       isMatch("ab", ".*") ? true
       isMatch("aab", "c*a*b") ? true
      » Solve this problem
                                                                                 (link to this question)
✓ Remove Duplicates from Sorted Array II
      Follow up for "Remove Duplicates":
      What if duplicates are allowed at most \it twice?
     For example,
     Given sorted array A = [1,1,1,2,2,3],
     Your function should return length = 5, and A is now [1,1,2,2,3].
     » Solve this problem
                                                                          (link to this question)
✓ Remove Duplicates from Sorted Array
                                                                              6735 / Feb 16 '12
```

```
Given a sorted array, remove the duplicates in place such that each element \frac{14262}{appear} only once and
      return the new length.
      Do not allocate extra space for another array, you must do this in place with constant memory.
      For example,
      Given input array A = [1,1,2],
      Your function should return length = 2, and A is now [1,2].
      » Solve this problem
                                                                                  (link to this question)
✓ Remove Duplicates from Sorted List II
      Given a sorted linked list, delete all nodes that have duplicate numbers, learned distinct
      numbers from the original list.
      For example,
      Given 1->2->3->4->4->5, return 1->2->5.
      Given 1->1->1->2->3, return 2->3.
      » Solve this problem
                                                                                  (link to this question)
                                                                                6081 / Apr 22 '12
✓ Remove Duplicates from Sorted List
      Given a sorted linked list, delete all duplicates such that each element appear only once.
      For example,
      Given 1\rightarrow 1\rightarrow 2, return 1\rightarrow 2.
      Given 1->1->2->3->3, return 1->2->3.
      » Solve this problem
                                                                                  (link to this question)
✓ Remove Element
      The order of elements can be changed. It doesn't matter what you leave beyond the new length.
      » Solve this problem
                                                                                  (link to this question)
✓ Remove Nth Node From End of List
      Given a linked list, remove the n^{th} node from the end of list and return its neau.
      For example,
          Given linked list: 1->2->3->4->5, and n=2.
           After removing the second node from the end, the linked list becomes 1->2->3->5.
      4
      Note:
      Given n will always be valid.
      Try to do this in one pass.
      » Solve this problem
                                                                                  (link to this question)

✓ Restore IP Addresses

      Given a string containing only digits, restore it by returning all possible value in address
      combinations.
      For example:
      Given "25525511135",
      return ["255.255.11.135", "255.255.111.35"] . (Order does not matter)
      » Solve this problem
                                                                                  (link to this question)
                                                                                8021 / Dec 26 '11
✓ Reverse Integer
      Reverse digits of an integer.
      Example1: x = 123, return 321
      Example2: x = -123, return -321
      click to show spoilers
      » Solve this problem
                                                                                  (link to this question)
✓ Reverse Linked List II
```

```
Reverse a linked list from position m to n. Do it in-place and in one-pass.
      For example:
      Given 1->2->3->4->5->NULL, m = 2 and n = 4,
      return 1->4->3->2->5->NULL.
      Given \mathit{m}, \mathit{n} satisfy the following condition:
      1 ? m ? n ? length of list.
      » Solve this problem
                                                                                         (link to this question)
✓ Reverse Nodes in k-Group
                                                                                        4578 / Feb 16 '12
      Given a linked list, reverse the nodes of a linked list k at a time and return resumment modified list.
      If the number of nodes is not a multiple of k then left-out nodes in the end should remain as it
      You may not alter the values in the nodes, only nodes itself may be changed.
      Only constant memory is allowed.
      For example,
      Given this linked list: 1->2->3->4->5
      For k = 2, you should return: 2->1->4->3->5
      For k = 3, you should return: 3 \rightarrow 2 \rightarrow 1 \rightarrow 4 \rightarrow 5
      » Solve this problem
                                                                                         (link to this question)
✓ Roman to Integer
                                                                                         3996 / Jan 15 '12
                                                                                       8336
      Given a roman numeral, convert it to an integer.
      Input is guaranteed to be within the range from 1 to 3999.
      » Solve this problem
                                                                                         (link to this question)
   Rotate Image
                                                                                                    Mar 18 '12
      You are given an n \times n 2D matrix representing an image.
      Rotate the image by 90 degrees (clockwise).
      Follow up:
      Could you do this in-place?
      » Solve this problem
                                                                                          (link to this question)
                                                                                         5071 / Mar 28 '12
✓ Rotate List
      Given a list, rotate the list to the right by k places, where k is non-negative.
      For example:
      Given 1\rightarrow 2\rightarrow 3\rightarrow 4\rightarrow 5\rightarrow NULL and k=2,
      return 4->5->1->2->3->NULL.
      » Solve this problem
                                                                                         (link to this question)
✓ Same Tree
                                                                                         10037
      Given two binary trees, write a function to check if they are equal or not.
      Two binary trees are considered equal if they are structurally identical and the nodes have the
      same value.
      » Solve this problem
                                                                                         (link to this question)

✓ Scramble String

                                                                                         4644 / Apr 30 '12
      Given a string sI, we may represent it as a binary tree by partitioning it to two non empty
      substrings recursively.
      Below is one possible representation of s1 = "great":
            great
           / \
          gr eat
               / \
```

http://leetcode.com/onlinejudge

g re at

To scramble the string, we may choose any non-leaf node and swap its two children.

For example, if we choose the node "gr" and swap its two children, it produces a scrambled string "rgeat".

```
rgeat
 / \
 rg eat
/ \
r g e at
       / \
      a t
```

We say that "rgeat" is a scrambled string of "great".

Similarly, if we continue to swap the children of nodes "eat" and "at", it produces a scrambled string "rgtae".

```
rgtae
/ \ / \
 g ta e
    / \
   t a
```

We say that  $\mbox{\tt "rgtae"}$  is a scrambled string of  $\mbox{\tt "great"}\,.$ 

Given two strings s1 and s2 of the same length, determine if s2 is a scrambled string of s1.

 $\mbox{\ensuremath{\mbox{$>$}}}$  Solve this problem (link to this question)

### ✓ Search a 2D Matrix

Write an efficient algorithm that searches for a value in an  $m \times n$  matrix. This matrix has the following properties:

- Integers in each row are sorted from left to right.
- The first integer of each row is greater than the last integer of the previous row.

For example,

Consider the following matrix:

```
[1, 3, 5, 7],
[10, 11, 16, 20],
[23, 30, 34, 50]
```

Given target = 3, return true.

» Solve this problem

(link to this question)

5288 / Apr 7 '12

```
5829 / Mar 3 '12

✓ Search for a Range

      Given a sorted array of integers, find the starting and ending position of a given target value.
      Your algorithm's runtime complexity must be in the order of O(\log n).
      If the target is not found in the array, return [-1, -1].
      For example.
      Given [5, 7, 7, 8, 8, 10] and target value 8,
      return [3, 4].
     » Solve this problem
                                                                                    (link to this question)
```

✓ Search in Rotated Sorted Array II

4077 / Apr 20 '12

Follow up for "Search in Rotated Sorted Array": What if duplicates are allowed?

Would this affect the run-time complexity? How and why?

Write a function to determine if a given target is in the array.

```
» Solve this problem
                                                                                       (link to this question)
                                                                                      7237 / Mar 3 '12

✓ Search in Rotated Sorted Array

                                                                                     18907
      Suppose a sorted array is rotated at some pivot unknown to you beforehand.
      (i.e., 0 1 2 4 5 6 7 might become 4 5 6 7 0 1 2).
      You are given a target value to search. If found in the array return its index, otherwise return
      You may assume no duplicate exists in the array.
      » Solve this problem
                                                                                       (link to this question)

✓ Search Insert Position

                                                                                                 Mar 3 '12
      Given a sorted array and a target value, return the index if the target is found. It not, return
      the index where it would be if it were inserted in order.
      You may assume no duplicates in the array.
      Here are few examples.
      [1,3,5,6], 5 \rightarrow 2
      [1,3,5,6], 2 \rightarrow 1
      [1,3,5,6], 7 \rightarrow 4
      [1,3,5,6], 0 \rightarrow 0
      » Solve this problem
                                                                                       (link to this question)
                                                                                      4561 / Apr 6 '12
✓ Set Matrix Zeroes
      Given a m x n matrix, if an element is 0, set its entire row and column to 0. \frac{10629}{100 \text{ m}} place.
      Follow up:
      Did you use extra space?
      A straight forward solution using 0(mn) space is probably a bad idea.
      A simple improvement uses 0(m + n) space, but still not the best solution.
      Could you devise a constant space solution?
      » Solve this problem
                                                                                       (link to this question)

✓ Simplify Path

                                                                                                 Apr 4 '12
      Given an absolute path for a file (Unix-style), simplify it.
      For example,
      path = "/home/", => "/home"
      path = "/a/./b/../c/", => "/c"
      click to show corner cases.
      » Solve this problem
                                                                                       (link to this question)
✓ Sort Colors
      Given an array with n objects colored red, white or blue, sort them so that objects of the same
      color are adjacent, with the colors in the order red, white and blue.
      Here, we will use the integers 0, 1, and 2 to represent the color red, white, and blue
      respectively.
      You are not suppose to use the library's sort function for this problem.
      click to show follow up.
      » Solve this problem
                                                                                       (link to this question)
                                                                                     3346 / Mar 28 '12
✓ Spiral Matrix II
      Given an integer n, generate a square matrix filled with elements from 1 to n in spiral order.
      For example,
      Given n = 3,
      You should return the following matrix:
         [ 1, 2, 3 ],
         [8,9,4],
        [7,6,5]
```

» Solve this problem (link to this question) √ Spiral Matrix 4405 / Mar 25 '12 Given a matrix of  $m \times n$  elements (m rows, n columns), return all elements of the matrix in spiral For example, Given the following matrix: [ 1, 2, 3 ], [ 4, 5, 6 ], [7,8,9] You should return [1,2,3,6,9,8,7,4,5]. » Solve this problem (link to this question) ✓ Sqrt(x) Implement int sqrt(int x) . Compute and return the square root of x. » Solve this problem (link to this question) 7626 / Dec 27 '11 ✓ String to Integer (atoi) Implement atoi to convert a string to an integer. Hint: Carefully consider all possible input cases. If you want a challenge, please do not see below and ask yourself what are the possible input cases. Notes: It is intended for this problem to be specified vaguely (ie, no given input specs). You are responsible to gather all the input requirements up front. spoilers alert... click to show requirements for atoi. » Solve this problem (link to this question) 4769 / Jun 25 '12 ✓ Subsets II Given a collection of integers that might contain duplicates, S, return all possible subsets. Note: • Elements in a subset must be in non-descending order.  $\bullet$  The solution set must not contain duplicate subsets. For example, If S = [1,2,2], a solution is: [2], [1], [1,2,2], [2,2], [1,2], [] » Solve this problem (link to this question) ✓ Subsets 6226 / Apr 18 '12 Given a set of distinct integers, S, return all possible subsets. Note: • Elements in a subset must be in non-descending order.  $\bullet$  The solution set must not contain duplicate subsets. For example, If S = [1,2,3], a solution is:

```
[3],
          [1],
          [2],
          [1,2,3],
          [1,3],
          [2,3],
         [1,2],
          []
      » Solve this problem
                                                                                  (link to this question)

✓ Substring with Concatenation of All Words

                                                                                5895 / Feb 24 '12
      You are given a string, S, and a list of words, L, that are all of the same rengen. Find all
      starting indices of substring(s) in S that is a concatenation of each word in L exactly once and
      without any intervening characters.
      For example, given:
      S: "barfoothefoobarman"
      L: ["foo", "bar"]
      You should return the indices: [0,9].
      (order does not matter).
      » Solve this problem
                                                                                  (link to this question)
✓ Sudoku Solver
                                                                               3375 / Mar 4 '12
      Write a program to solve a Sudoku puzzle by filling the empty cells.
      Empty cells are indicated by the character '.'.
      You may assume that there will be only one unique solution.
       5
           3
                      9
                         5
       6
                  1
           9 8
                                  6
       8
                      6
                                      3
       4
                   8
                          3
                                      1
       7
                      2
                                     6
           6
                              2 | 8
                   4
                                      5
                      1 9
                      8
                                  7
                                      9
      A sudoku puzzle...
                      9
                          5
                  1
          9 8
                  3
                      4
                                 6
                      6
                      5
       4
           2
               6
                  8
                          3
                  9
                      2
                                     6
           6
                       3
                              2
                                 8
               1
               7
                      1 9
                                      5
           8
                  4
           4
                      8
      ...and its solution numbers marked in red.
      » Solve this problem
                                                                                  (link to this question)
                                                                                8344 /

✓ Sum Root to Leaf Numbers

      Given a binary tree containing digits from 0-9 only, each root-to-leaf path course represent a
      number.
      An example is the root-to-leaf path 1->2->3 which represents the number 123.
      Find the total sum of all {\tt root-to-leaf} numbers.
      For example,
```

```
2 3
               The root-to-leaf path 1->2 represents the number 12.
               The root-to-leaf path 1->3 represents the number 13.
               Return the sum = 12 + 13 = 25.
               » Solve this problem
                                                                                                                                                                                                      (link to this question)

✓ Surrounded Regions

              Given a 2D board containing \,^{'}\text{X'}\,^{'} and \,^{'}\text{O'}\,^{'} , capture all regions surrounded by \,^{'} .
              A region is captured by flipping all \begin{subarray}{c} \begin{
               For example,
                 X X X X
                  X \circ \circ X
                  X X O X
                  X \circ X X
              After running your function, the board should be:
                 X X X X
                  X X X X
                  X X X X
                  X \circ X X
               » Solve this problem
                                                                                                                                                                                                      (link to this question)
                                                                                                                                                                                                6098 / Feb 15 '12

✓ Swap Nodes in Pairs

              Given a linked list, swap every two adjacent nodes and return its head.
              For example,
              Given 1->2->3->4, you should return the list as 2->1->4->3.
               Your algorithm should use only constant space. You may not modify the values in the list, only
               nodes itself can be changed.
               » Solve this problem
                                                                                                                                                                                                     (link to this question)

✓ Symmetric Tree

              Given a binary tree, check whether it is a mirror of itself (ie, symmetric around its center).
               For example, this binary tree is symmetric:  
                           1
                         /\
                       2 2
                     / \ / \
                  3 4 4 3
               But the following is not:
                           1
                       2 2
                          \
                                  3
                          3
               Bonus points if you could solve it both recursively and iteratively.
               confused what "\{1,\#,2,3\}" means? > read more on how binary tree is serialized on OJ.
              » Solve this problem
                                                                                                                                                                                                    (link to this question)
                                                                                                                                                                                                 3100 /
       Text Justification
                                                                                                                                                                                                                              Apr 3 '12
               Given an array of words and a length L, format the text such that each line mas exactly L
               characters and is fully (left and right) justified.
```

You should pack your words in a greedy approach; that is, pack as many words as you can in each

line. Pad extra spaces " when necessary so that each line has exactly L characters.

Extra spaces between words should be distributed as evenly as possible. If the number of spaces on a line do not divide evenly between words, the empty slots on the left will be assigned more spaces than the slots on the right.

For the last line of text, it should be left justified and no extra space is inserted between words.

For example,

```
words: ["This", "is", "an", "example", "of", "text", "justification."] 
 L: 16 .
```

Return the formatted lines as:

```
[
"This is an",
"example of text",
"justification. "
]
```

Note: Each word is guaranteed not to exceed L in length.

click to show corner cases.

#### » Solve this problem

(link to this question)



√ Triangle 6503 / 0ct 30 '12

Given a triangle, find the minimum path sum from top to bottom. Each step you may move to adjacent numbers on the row below.

For example, given the following triangle

```
[
    [2],
    [3,4],
    [6,5,7],
    [4,1,8,3]
]
```

The minimum path sum from top to bottom is 11 (i.e., 2 + 3 + 5 + 1 = 11).

### Note

Bonus point if you are able to do this using only  $\theta(n)$  extra space, where n is the total number of rows in the triangle.

» Solve this problem

(link to this question)

✓ Two Sum 15259 / Mar 14 '11 48327

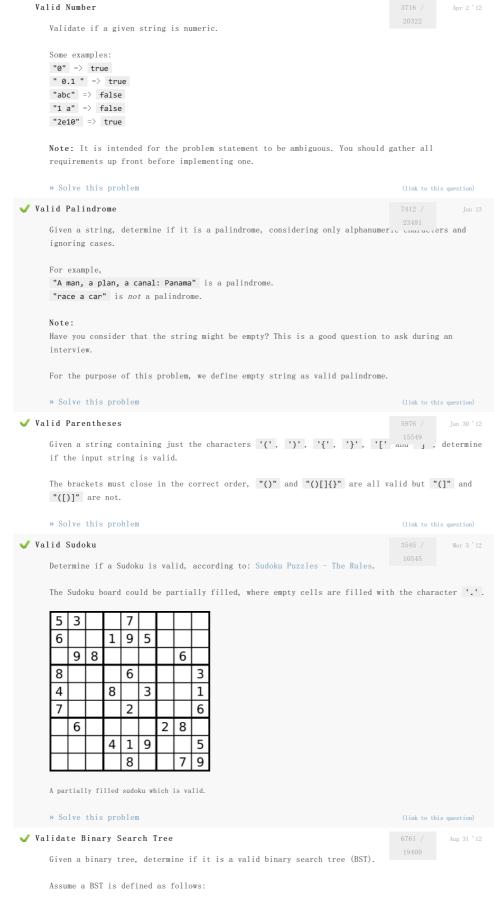
Given an array of integers, find two numbers such that they add up to a specific carset number.

The function twoSum should return indices of the two numbers such that they add up to the target, where index1 must be less than index2. Please note that your returned answers (both index1 and index2) are not zero-based.

```
You may assume that each input would have exactly one solution.
      Input: numbers={2, 7, 11, 15}, target=9
      Output: index1=1, index2=2
      » Solve this problem
                                                                                      (link to this question)
✓ Unique Binary Search Trees II
      Given n, generate all structurally unique BST's (binary search trees) that store values 1\dots n.
      Given n = 3, your program should return all 5 unique BST's shown below.
             3
                                       3
           2
                  1
                              2
                                                  3
      confused what "{1,#,2,3}" means? > read more on how binary tree is serialized on OJ.
      » Solve this problem
                                                                                      (link to this question)
✓ Unique Binary Search Trees
      Given n, how many structurally unique BST's (binary search trees) that store values 1...n?
      For example.
      Given n = 3, there are a total of 5 unique BST's.
                              2
                                                  3
      » Solve this problem
✓ Unique Paths II
      Follow up for "Unique Paths":
      Now consider if some obstacles are added to the grids. How many unique paths would there be?
      An obstacle and empty space is marked as 1 and 0 respectively in the grid.
      For example,
      There is one obstacle in the middle of a 3x3 grid as illustrated below.
          [0,0,0],
          [0,1,0],
          [0,0,0]
        1
      The total number of unique paths is 2.
      Note: m and n will be at most 100.
      » Solve this problem
                                                                                      (link to this question)
                                                                                      5981 / Mar 28 '12

✓ Unique Paths

      A robot is located at the top-left corner of a m x n grid (marked 'Start' in the ulagram below).
      The robot can only move either down or right at any point in time. The robot is trying to reach
      the bottom-right corner of the grid (marked 'Finish' in the diagram below).
      How many possible unique paths are there?
      Above is a 3 x 7 grid. How many possible unique paths are there?
      Note: m and n will be at most 100.
      » Solve this problem
                                                                                      (link to this question)
```



- The left subtree of a node contains only nodes with keys less than the node's key.
- $\bullet$  The right subtree of a node contains only nodes with keys  ${\tt greater}$  than the node's key.
- $\bullet$  Both the left and right subtrees must also be binary search trees.

# $0\,\mathrm{J}^{\prime}\,\mathrm{s}$ Binary Tree Serialization:

The serialization of a binary tree follows a level order traversal, where  $'\sharp'$  signifies a path terminator where no node exists below.

Here's an example:

```
1
/\
2 3
/
4
\
5
```

The above binary tree is serialized as  $"\{1,2,3,\#,\#,4,\#,\#,5\}"$ .

» Solve this problem

(link to this question)

```
8261 / Mar 16 '12

✓ Wildcard Matching

      Implement wildcard pattern matching with support for '?' and '*'.
       '?' Matches any single character.
       \ensuremath{^{\prime \, \star \, \prime}} Matches any sequence of characters (including the empty sequence).
       The matching should cover the entire input string (not partial).
       The function prototype should be:
       bool isMatch(const char *s, const char *p)
       Some examples:
       isMatch("aa", "a") ? false
       isMatch("aa", "aa") ? true
       isMatch("aaa", "aa") ? false
       isMatch("aa", "*") ? true
       isMatch("aa", "a*") ? true
       isMatch("ab", "?*") ? true
       isMatch("aab", "c*a*b") ? false
```

✓ Word Ladder II

» Solve this problem

(link to this question)
7646 / Feb 1

Given two words (start and end), and a dictionary, find all shortest transformation sequence(s) from start to end, such that:

- Only one letter can be changed at a time
- Each intermediate word must exist in the dictionary

For example,

```
Given:
start = "hit"
end = "cog"
dict = ["hot","dot","dog","lot","log"]
```

Return

### Note:

- All words have the same length.
- All words contain only lowercase alphabetic characters.

» Solve this problem

(link to this question)

```
As one shortest transformation is "hit" -> "hot" -> "dot" -> "dog" -> "cog",
      return its length 5.
      Note:
          \bullet Return 0 if there is no such transformation sequence.
          • All words have the same length.
          • All words contain only lowercase alphabetic characters.
      » Solve this problem
                                                                                      (link to this question)
                                                                                    6762 / Apr 18 '12

✓ Word Search
      Given a 2D board and a word, find if the word exists in the grid.
      The word can be constructed from letters of sequentially adjacent cell, where "adjacent" cells
      are those horizontally or vertically neighboring. The same letter cell may not be used more than
      once.
      For example,
      Given board =
          ["ABCE"],
          ["SFCS"],
          ["ADEE"]
      word = "ABCCED", -> returns true,
      word = "SEE", -> returns true,
      word = "ABCB", -> returns false.
      » Solve this problem
                                                                                       (link to this question)
   ZigZag Conversion
                                                                                      6562 / Dec 6 '11
      The string "PAYPALISHIRING" is written in a zigzag pattern on a given number or rows like this:
      (you may want to display this pattern in a fixed font for better legibility)
        {\tt P} \quad {\tt A} \quad {\tt H} \quad {\tt N}
        APLSIIG
      And then read line by line: {\tt "PAHNAPLSIIGYIR"}
      Write the code that will take a string and make this conversion given a number of rows:
        string convert(string text, int nRows);
      convert("PAYPALISHIRING", 3) should return "PAHNAPLSIIGYIR".
      » Solve this problem
                                                                                     (link to this question)
```

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