

16. 3Sum Closest.JAVA

16. 3Sum Closest

Given an integer array `nums` of length `n` and an integer `target`, find three integers in `nums` such that the sum is closest to `target`. Return the sum of the three integers. You may assume that each input would have exactly one solution.

Example 1:
Input: `nums = [-1,2,1,-4], target = 1`
Output: `2`
Explanation: The sum that is closest to the target is 2, $(-1 + 2 + 1 = 2)$.

Example 2:
Input: `nums = [0,0,0], target = 1`
Output: `0`
Explanation: The sum that is closest to the target is 0, $(0 + 0 + 0 = 0)$.

Constraints:

- $3 \leq \text{nums.length} \leq 300$
- $-1000 \leq \text{nums}[i] \leq 1000$
- $-10^4 \leq \text{target} \leq 10^4$

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted **1,581,201** / 1,588 Acceptance Rate **47.2%**

Topics: [Arrays](#), [Sorting](#)

Similar Questions: [3Sum](#), [3Sum Smaller](#)

Discussion (159)

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```

1 class Solution {
2     public int threeSumClosest(int[] nums, int target) {
3         Arrays.sort(nums);
4         int n = nums.length;
5         int closest = nums[0] + nums[1] + nums[2];
6
7         for (int i = 0; i < n - 2; i++) {
8             int left = i + 1, right = n - 1;
9             while (left < right) {
10                 int sum = nums[i] + nums[left] + nums[right];
11                 if (Math.abs(closest - target) > Math.abs(sum - target)) {
12                     closest = sum;
13                 }
14                 if (sum < target) {
15                     left++;
16                 } else if (sum > target) {
17                     right--;
18                 } else {
19                     return sum; // exact match
20                 }
21             }
22         }
23         return closest;
24     }
25 }

```

Testcase: **Accepted** Runtime: 0 ms

Case 1 Case 2

Input: `nums = [-1,2,1,-4]`

target = `1`

Output: `2`

Expected: `2`

Contribute a test case

17. Letter Combinations of a Phone Number.JAVA

17. Letter Combinations of a Phone Number

Given a string containing digits from 2-9 inclusive, return all possible letter combinations that the number could represent. Return the answer in **any order**.

A mapping of digits to letters (just like on the telephone buttons) is given below. Note that 1 does not map to any letters.

Example 1:
Input: `digits = "23"`
Output: `["ad","ae","af","bd","be","bf","cd","ce","cf"]`

Example 2:
Input: `digits = ""`
Output: `[]`

Example 3:
Input: `digits = "2"`
Output: `["a","b","c"]`

Constraints:

- $0 \leq \text{digits.length} \leq 4$
- `digits[i]` is a digit in the range `[2, 9]`.

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted **2,689,524** / 2,745 Acceptance Rate **64.4%**

Topics: [Backtracking](#), [Strings](#)

Similar Questions: [Letter Combinations of a Numbers](#), [Combination Sum](#)

Discussion (159)

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```

1 class Solution {
2     private static final String[] letters = {
3         "", "", "abc", "def", "ghi", "jkl", "mno", "pqrs", "tuvw", "xyz"
4     };
5
6     public List<String> letterCombinations(String digits) {
7         List<String> result = new ArrayList<>();
8         if (digits == null || digits.length() == 0) return result;
9         backtrack(result, new StringBuilder(), digits, 0);
10        return result;
11    }
12
13    private void backtrack(List<String> result, StringBuilder current, String digits, int index) {
14        if (index == digits.length()) {
15            result.add(current.toString());
16            return;
17        }
18        String letters = letters.charAt(index) - '0';
19        for (char c : letters.toCharArray()) {
20            current.append(c);
21            backtrack(result, current, digits, index + 1);
22            current.deleteCharAt(current.length() - 1);
23        }
24    }
25 }

```

Testcase: **Accepted** Runtime: 0 ms

Case 1 Case 2 Case 3

Input: `digits = "23"`

Output: `["ad","ae","af","bd","be","bf","cd","ce","cf"]`

Expected: `["ad","ae","af","bd","be","bf","cd","ce","cf"]`

Contribute a test case

18. 4Sum.JAVA

Problem List

18. 4Sum

Medium

Topics

Companies

Description

Editorial

Solutions

Submissions

Run

Ctrl

Given an array `nums` of n integers, return an array of all the unique quadruplets `[nums[i], nums[j], nums[k], nums[l]]` such that:

- $0 \leq i, j, k, l < n$
- i, j, k , and l are distinct
- $nums[i] + nums[j] + nums[k] + nums[l] == target$

You may return the answer in any order.

Example 1:

Input: `nums = [1,0,-1,0,-2,2]`, `target = 0`
Output: `[[-2,-1,1,2],[-2,0,0,2],[-1,0,0,1]]`

Example 2:

Input: `nums = [2,2,2,2,2]`, `target = 8`
Output: `[[2,2,2,2]]`

Constraints:

- $1 \leq \text{nums.length} \leq 200$
- $-10^9 \leq \text{nums}[i] \leq 10^9$
- $-10^8 \leq \text{target} \leq 10^8$

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted 1,408,019/1,558 Acceptance Rate 38.8%

Topics

Companies

Similar Questions

Discussion (238)

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Code

Auto

```

1  for (int i = 0; i < n - 3; i++) {
2      if (i > 0 && nums[i] == nums[i - 1]) continue;
3      for (int j = i + 1; j < n - 2; j++) {
4          if (j > i + 1 && nums[j] == nums[j - 1]) continue;
5          int left = j + 1, right = n - 1;
6          while (left < right) {
7              long sum = (long) nums[i] + nums[j] + nums[left] + nums[right];
8              if (sum == target) {
9                  result.add(new ArrayList<>(nums[i], nums[j], nums[left], nums[right]));
10                 while (left < right && nums[left] == nums[left + 1]) left++;
11                 while (left < right && nums[right] == nums[right - 1]) right--;
12                 left++;
13             } else if (sum < target) {
14                 left++;
15             } else {
16                 right--;
17             }
18         }
19     }
20 }
21 return result;
22 }
23 
```

Testcase

Test Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Input

`nums = [1,0,-1,0,-2,2]`

`target = 0`

Output

`[[-2,-1,1,2],[-2,0,0,2],[-1,0,0,1]]`

Expected

`[[-2,-1,1,2],[-2,0,0,2],[-1,0,0,1]]`

[Contribute a testcase](#)

19. Remove Nth Node From End of List.JAVA

Problem List

19. Remove Nth Node From End of List

Medium

Topics

Companies

Hint

Description

Editorial

Solutions

Submissions

Run

Ctrl

Given the `head` of a linked list, remove the n^{th} node from the end of the list and return its `head`.

Example 1:

Input: `head = [1,2,3,4,5]`, `n = 2`
Output: `[1,2,3,5]`

Example 2:

Input: `head = [1]`, `n = 1`
Output: `[]`

Example 3:

Input: `head = [1,2]`, `n = 1`
Output: `[1]`

Constraints:

- The number of nodes in the list is $5 \leq \dots$
- $1 \leq \text{val} \leq 300$
- $0 \leq \text{Nth} \leq \text{val} \leq 300$
- $1 \leq n \leq 50$

Follow up: Could you do this in one pass?

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted 3,702,357/4,145 Acceptance Rate 49.7%

Code

Auto

```

1  class Solution {
2      public ListNode removeNthFromEnd(ListNode head, int n) {
3          ListNode dummy = new ListNode(0, head);
4          ListNode first = dummy, second = dummy;
5          // Move first ahead by n steps
6          for (int i = 0; i < n; i++) {
7              first = first.next;
8          }
9          // Move both pointers until first reaches end
10         while (first != null) {
11             first = first.next;
12             second = second.next;
13         }
14         // Remove target node
15         second.next = second.next.next;
16         return dummy.next;
17     }
18 }

```

Testcase

Test Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Case 3

Input

`head = [1,2,3,4,5]`

`n = 2`

Output

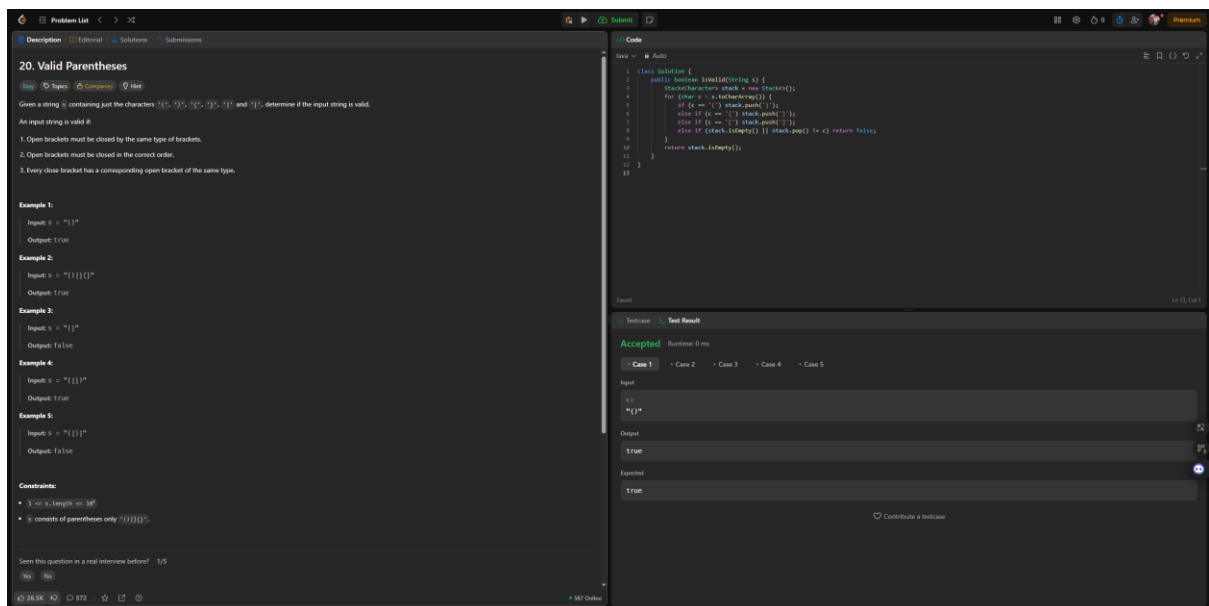
`[1,2,3,5]`

Expected

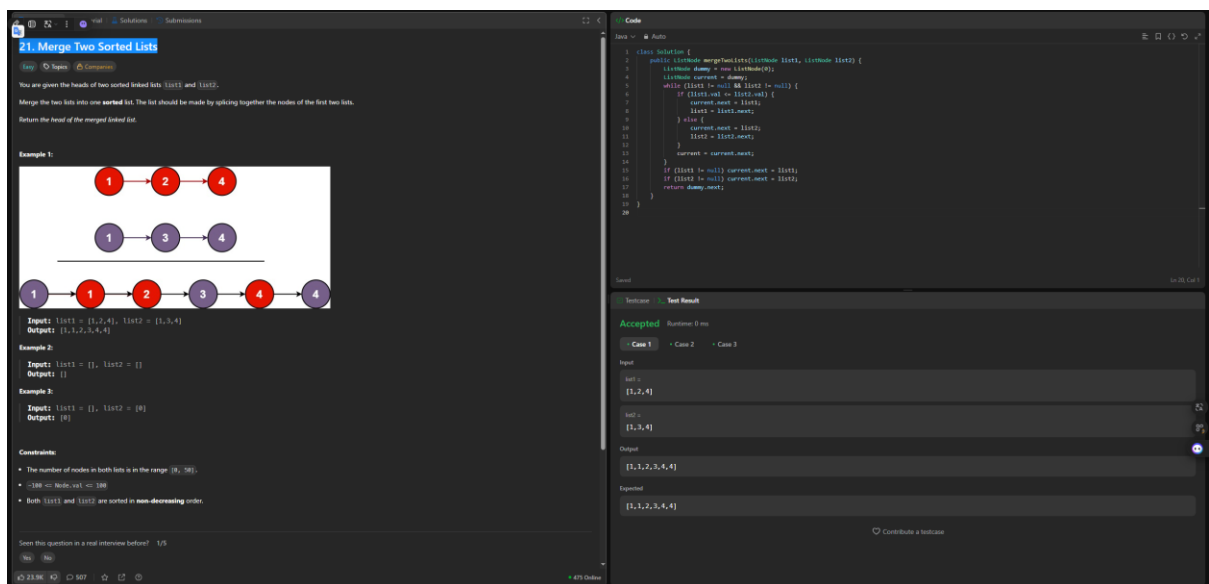
`[1,2,3,5]`

[Contribute a testcase](#)

20. Valid Parentheses.JAVA



21. Merge Two Sorted Lists.JAVA



22. Generate Parentheses.JAVA

22. Generate Parentheses

Given n pairs of parentheses, write a function to generate all combinations of well-formed parentheses.

Example 1:
Input: $n = 3$
Output: ["((()))","(()())","(())()","()(())","()()()"]

Example 2:
Input: $n = 1$
Output: ["()"]

Constraints:
• $1 \leq n \leq 8$

Seen this question in a real interview before? 1/5

Accepted: 2,524,928/3,367 Acceptance Rate: 77.6%

Topics: Backtracking

Similar Questions: Generate Parentheses, Valid Parentheses, Decode String

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```
1 class Solution {
2     public List<String> generateParenthesis(int n) {
3         List<String> result = new ArrayList<>();
4         backtrack(result, new StringBuilder(), 0, 0, n);
5         return result;
6     }
7
8     private void backtrack(List<String> result, StringBuilder current, int open, int close, int max) {
9         if (current.length() == max * 2) {
10             result.add(current.toString());
11             return;
12         }
13         if (open < max) {
14             current.append("(");
15             backtrack(result, current, open + 1, close, max);
16             current.deleteCharAt(current.length() - 1);
17         }
18         if (close < open) {
19             current.append(")");
20             backtrack(result, current, open, close + 1, max);
21             current.deleteCharAt(current.length() - 1);
22         }
23     }
24 }
```

Testcase: Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

Input: 3

Output: ["((()))","(()())","(())()","()(())","()()()"]

Expected: ["((()))","(()())","(())()","()(())","()()()"]

Contribute a testcase

23. Merge k Sorted Lists.JAVA

23. Merge k Sorted Lists

You are given an array of k linked lists ($lists$), each linked list is sorted in ascending order.

Merge all the linked lists into one sorted linked list and return it.

Example 1:
Input: lists = [[1,4,5],[1,3,4],[7,6]]
Output: [1,1,2,3,4,4,5,6,7]
Explanation: The linked-lists are:
1 → 4 → 5,
1 → 3 → 4,
7 → 6
Merging them into one sorted linked list:
1 → 1 → 2 → 3 → 4 → 4 → 5 → 6 → 7

Example 2:
Input: lists = []
Output: []

Example 3:
Input: lists = [[]]
Output: []

Constraints:
• $k == lists.length$
• $0 \leq k \leq 300$
• $0 \leq lists[i].length \leq 300$
• $0 \leq lists[i][j] \leq 300$
• $lists[i]$ is sorted in ascending order.
• The sum of $lists[i].length$ will not exceed 300 .

Seen this question in a real interview before? 1/5

Accepted: 2,643,637/3,556 Acceptance Rate: 57.5%

Topics: Merge Sort, Priority Queue

Similar Questions: Merge Two Sorted Lists, Merge k Sorted Arrays, Merge Two Sorted Lists II

```
1 class Solution {
2     public ListNode mergeKLists(ListNode[] lists) {
3         PriorityQueue<ListNode> pq = new PriorityQueue<>((a, b) -> a.val - b.val);
4         for (ListNode node : lists) {
5             if (node != null) pq.offer(node);
6         }
7
8         ListNode dummy = new ListNode(0);
9         ListNode current = dummy;
10
11         while (!pq.isEmpty()) {
12             ListNode node = pq.poll();
13             current.next = node;
14             current = current.next;
15             if (node.next != null) pq.offer(node.next);
16         }
17
18         return dummy.next;
19     }
20 }
```

Testcase: Test Result

Accepted Runtime: 0 ms

Case 1 Case 2 Case 3

Input: lists = [[1,4,5],[1,3,4],[7,6]]

Output: [1,1,2,3,4,4,5,6,7]

Expected: [1,1,2,3,4,4,5,6,7]

Contribute a testcase

24. Swap Nodes in Pairs.JAVA

Problem List

24. Swap Nodes in Pairs

Medium

Topics

Comments

Description

Solutions

Submissions

Given a linked list, swap every two adjacent nodes and return its head. You must solve the problem without modifying the values in the list's nodes (i.e., only nodes themselves may be changed).

Example 1:

Input: head = [1,2,3,4]
Output: [2,1,4,3]

Explanation:

Example 2:

Input: head = []
Output: []

Example 3:

Input: head = [1]
Output: [1]

Example 4:

Input: head = [1,2,3]
Output: [2,1,3]

Constraints:

- The number of nodes in the list is in the range [0, 100].
- 0 <= Node.val <= 100

Seen this question in a real interview before? 1/5

12.7K 10 138 17 10

Code

Auto

Testcase

Test Result

25. Reverse Nodes in k-Group.JAVA

Problem List

25. Reverse Nodes in k-Group

Hard

Topics

Comments

Description

Solutions

Submissions

Given the head of a linked list, reverse the nodes of the list k at a time, and return the modified list.

k is a positive integer and is less than or equal to the length of the linked list. If the number of nodes is not a multiple of k then left out nodes, in the end, should remain as it is.

You may not alter the values in the list's nodes, only nodes themselves may be changed.

Example 1:

Input: head = [1,2,3,4,5], k = 2
Output: [2,1,4,3,5]

Example 2:

Input: head = [1,2,3,4,5], k = 3
Output: [3,2,1,4,5]

Constraints:

- The number of nodes in the list is n.
- 1 <= k <= n <= 1000
- 0 <= Node.val <= 1000

Follow-up: Can you solve the problem in O(1) extra memory space?

15K 10 264 17 10

Code

Auto

Testcase

Test Result

26. Remove Duplicates from Sorted Array.JAVA

Problem List
Search

Description | Editorial | Solutions | Submissions

28. Find the Index of the First Occurrence in a String

Easy | Topics | Discuss

Given two strings `needle` and `haystack`, return the index of the first occurrence of `needle` in `haystack`, or `-1` if `needle` is not part of `haystack`.

Example 1:

```
Input: haystack = "hello", needle = "ll"
Output: 9
Explanation: "ll" occurs at index 9.
```

Example 2:

```
Input: haystack = "leetcode", needle = "leeto"
Output: -1
Explanation: "leeto" did not occur in "leetcode", so we return -1.
```

Constraints:

- `1 <= haystack.length, needle.length <= 100`
- `haystack` and `needle` consist of only lowercase English characters.

Seen this question in a real interview before? 1/5

Accepted: 3,541,216 / 3,541,216 Acceptance Rate: 45.4%

Topics

Companies

Similar Questions

Discussion (441)

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Code

```

1 class Solution {
2     public int strStr(String haystack, String needle) {
3         int n = haystack.length(), m = needle.length();
4         for (int i = 0; i <= n - m; i++) {
5             if (haystack.substring(i, i + m).equals(needle)) {
6                 return i;
7             }
8         }
9         return -1;
10    }
11 }
12 
```

Saved

Test Results

Accepted Runtime: 0 ms

Case 1 Case 2

Input

```

haystack =
"hello"
needle =
"ll"
Output
9
Expected
9

```

Contribute a Testcase

Description
Editorial
Solutions
Submissions

29. Divide Two Integers

Medium **Topics** **Companies**

Given two integers *dividend* and *divisor*, divide two integers **without using multiplication, division, and mod operator**.

The integer division should truncate toward zero, which means losing its fractional part. For example, 8.345 would be truncated to 8 , and -2.7335 would be truncated to -2 .

Return the **quotient after dividing dividend by divisor**.

Note: Assume we are dealing with an environment that could only store integers within the 32-bit signed integer range: $[-2^{31}, 2^{31} - 1]$. For this problem, if the quotient is **strictly greater than $2^{31} - 1$** , then return $2^{31} - 1$, and if the quotient is **strictly less than -2^{31}** , then return -2^{31} .

Example 1:

```
Input: dividend = 10, divisor = 3
Output: 3
Explanation: 10/3 = 3.3333..., which is truncated to 3.
```

Example 2:

```
Input: dividend = 7, divisor = -3
Output: -2
Explanation: 7/-3 = -2.3333..., which is truncated to -2.
```

Constraints:

- $-2^{31} \leq \text{dividend}, \text{divisor} \leq 2^{31} - 1$
- divisor* $\neq 0$

Seen this question in a real interview before? YES NO

Accepted: **1,003,468** / 1,011 Acceptance Rate: **18.7%**

Topics

Companies

Discussion (387)

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Code
Java
C++
Python

```

1 class Solution {
2     public int divide(int dividend, int divisor) {
3         if (dividend == Integer.MIN_VALUE && divisor == -1) {
4             return Integer.MAX_VALUE; // overflow
5         }
6
7         long w = Math.abs((long)dividend);
8         long d = Math.abs((long)divisor);
9         int result = 0;
10
11         while (w >= d) {
12             long temp = d, multiple = 1;
13             while (w <= temp * 2) {
14                 temp *= 2;
15                 multiple *= 2;
16             }
17             w -= temp;
18             result += multiple;
19         }
20
21         return (dividend >= 0 ? (divisor > 0 ? result : -result) : -result);
22     }
23 }
```

Save

Testcase
Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

Input

dividend =
10

divisor =
3

Output
3

Expected
3

[Contribute a solution](#)

The screenshot shows the LeetCode interface for problem 32, "Longest Valid Parentheses". The description states: "Given a string containing just the characters '(' and ')', return the length of the longest valid (well-formed) parentheses substring." Examples include: Example 1: Input: s = "()", Output: 2; Example 2: Input: s = "(()())", Output: 4; Example 3: Input: s = "", Output: 0. Constraints: 0 <= s.length <= 30,000 and s[i] is '(' or ')'. The code editor on the right contains a Java solution using a stack-based approach. The test result panel shows "Accepted" with a runtime of 0 ms for Case 1, where the input is "()" and the output is 2.

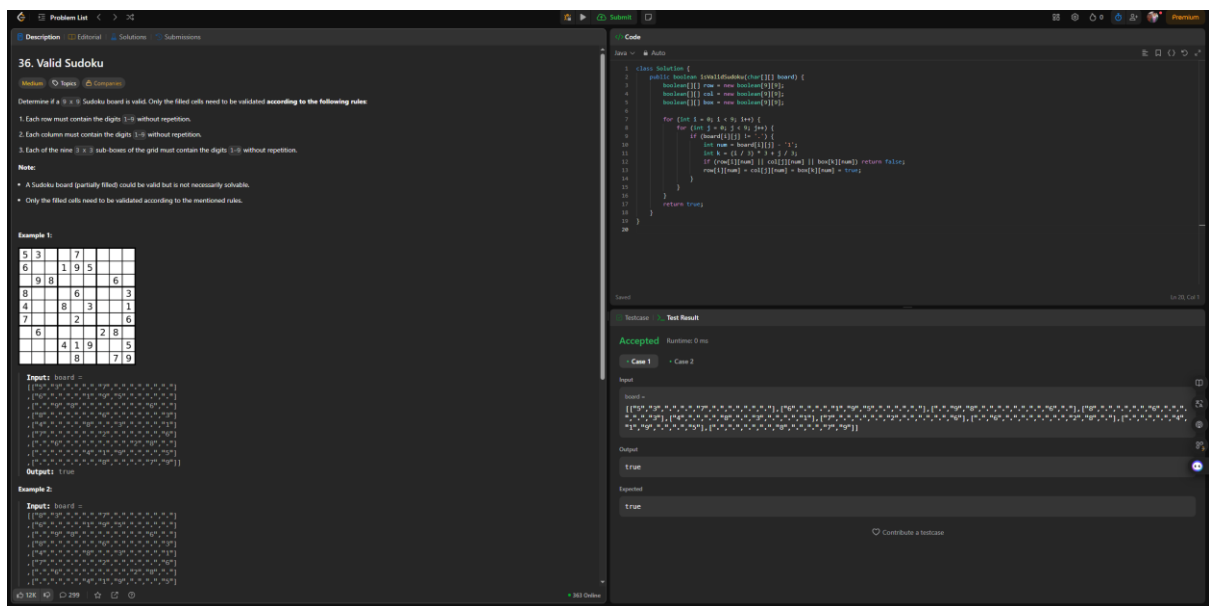
33. Search in Rotated Sorted Array.JAVA

The screenshot shows the LeetCode interface for problem 33, "Search in Rotated Sorted Array". The description states: "There is an integer array nums sorted in ascending order (with distinct values). Prior to being passed to your function, nums is possibly left rotated at an unknown index k (1 <= k <= nums.length) such that the resulting array is [nums[k], nums[k+1], ..., nums[nums.length-1], nums[0], nums[1], ..., nums[k-1]] (0-indexed). For example, [0,1,2,4,5,6,7] might be left rotated by 3 indices and become [4,5,6,7,0,1,2]. Given the array nums after the possible rotation and an integer target, return the index of target if it is in nums, or -1 if it is not in nums. You must write an algorithm with O(log n) runtime complexity." Examples include: Example 1: Input: nums = [4,5,6,7,0,1,2], target = 0, Output: 4; Example 2: Input: nums = [4,5,6,7,0,1,2], target = 3, Output: -1; Example 3: Input: nums = [1], target = 0, Output: -1. Constraints: 1 <= nums.length <= 5000, -10^9 <= nums[i] <= 10^9, all values of nums are unique, nums is an ascending array that is possibly rotated, and -10^9 <= target <= 10^9. The code editor on the right contains a Java solution using a binary search approach. The test result panel shows "Accepted" with a runtime of 0 ms for Case 1, where the input is [4,5,6,7,0,1,2] and target is 0, resulting in an output of 4.

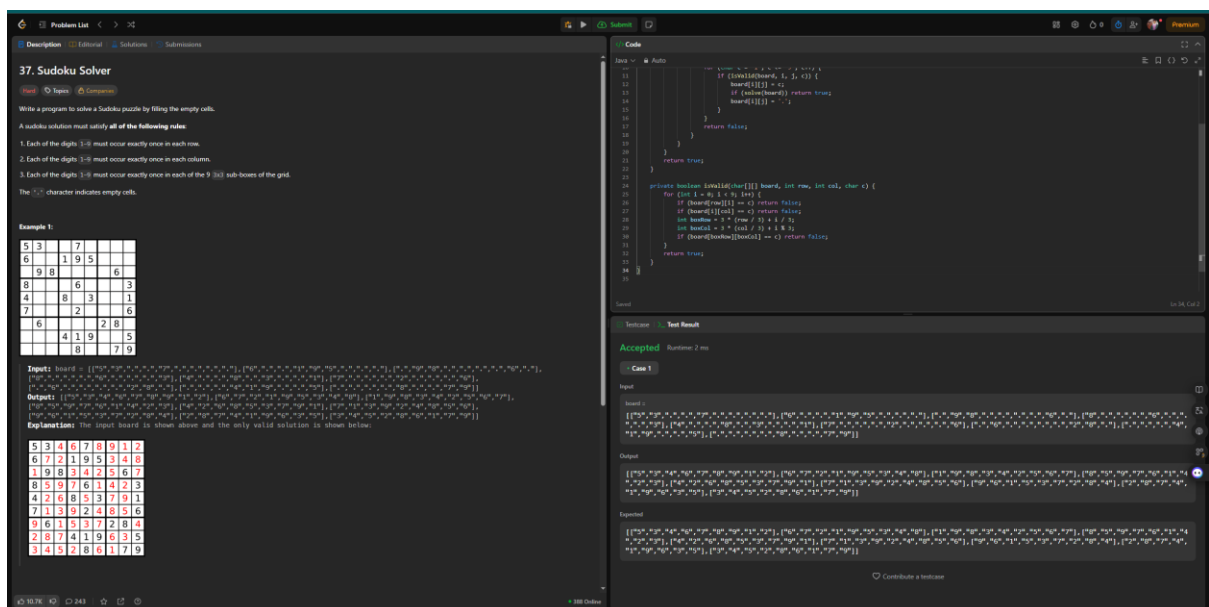
34. Find First and Last Position of Element in Sorted Array.JAVA

35. Search Insert Position.JAVA

36. Valid Sudoku.JAVA



37. Sudoku Solver.JAVA



38. Count and Say.JAVA

Problem List

Description

Editorial

Solutions

Submissions

38. Count and Say

Medium

Topics

Companies

Hint

The **count-and-say** sequence is a sequence of digit strings defined by the recursive formula:

- `countAndSay(1) = "1"`
- `countAndSay(n)` is the run-length encoding of `countAndSay(n-1)`.

Run-length encoding (RLE) is a string compression method that works by replacing consecutive identical characters (regarded as 2 or more times) with the concatenation of the character and the number marking the count of the characters (length of the run). For example, to compress the string `"33222551"` we replace `"33"` with `"23"`, replace `"222"` with `"32"`, replace `"55"` with `"25"` and replace `"1"` with `"11"`. Thus the compressed string becomes `"233225511"`.

Given a positive integer `n`, return the n^{th} element of the **count-and-say** sequence.

Example 1:

Input: `n = 4`

Output: `"1211"`

Explanation:

```
countAndSay(1) = "1"
countAndSay(2) = RLE of "1" = "11"
countAndSay(3) = RLE of "11" = "21"
countAndSay(4) = RLE of "21" = "1211"
```

Example 2:

Input: `n = 1`

Output: `"1"`

Explanation:

This is the base case.

Constraints:

- `1 <= n <= 30`

Follow up: Could you solve it iteratively?

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted 1,281,752/1.1M Acceptance Rate: 61.2%

4.9K 337 68 68

Code

Java

C++

Python

JavaScript

Go

Rust

Swift

Kotlin

Scala

Java Script

PHP

Perl

Python 2

C#

Python 3

Java 8

Java 9

Java 10

Java 11

Java 12

Java 13

Java 14

Java 15

Java 16

Java 17

Java 18

Java 19

Java 20

Java 21

Java 22

Java 23

Java 24

Java 25

Java 26

Java 27

Java 28

Java 29

Java 30

Java 31

Java 32

Java 33

Java 34

Java 35

Java 36

Java 37

Java 38

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Java 40

Java 41

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Java 43

Java 44

Java 45

Java 46

Java 47

Java 48

Java 49

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Java 54

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Java 57

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39. Combination Sum.JAVA

Problem List

Description

Editorial

Solutions

Submissions

39. Combination Sum

Medium

Topics

Companies

Hint

Given an array of **distinct** integers `candidates` and a target integer `target`, return a list of all **unique combinations of candidates** where the chosen numbers sum to `target`. You may return the combinations in **any order**.

The same number may be chosen from `candidates` an **unlimited number of times**. Two combinations are unique if the **frequency** of at least one of the chosen numbers is different.

The test cases are generated such that the number of unique combinations that sum up to `target` is less than `150` combinations for the given input.

Example 1:

Input: `candidates = [2,3,6,7], target = 7`

Output: `[[2,2,3],[7]]`

Explanation:

2 and 3 are candidates, and `2 + 2 + 3 = 7`. Note that 2 can be used multiple times.

7 is a candidate, and `7 = 7`.

These are the only two combinations.

Example 2:

Input: `candidates = [2,3,5], target = 8`

Output: `[[2,2,2,2],[2,3,3],[3,5]]`

Example 3:

Input: `candidates = [2], target = 1`

Output: `[]`

Constraints:</

40. Combination Sum II

Given a collection of candidate numbers (`candidates`) and a target number (`target`), find all unique combinations in `candidates` where the candidate numbers sum to `target`.

Each number in `candidates` may only be used **once** in the combination.

Note: The solution set must not contain duplicate combinations.

Example 1:

Input: `candidates = [10,1,2,7,6,1,5], target = 8`
Output:

```
[
  [1,7],
  [1,2,5],
  [2,6],
  [7,1]
]
```

Example 2:

Input: `candidates = [2,5,2,1,2], target = 5`
Output:

```
[
  [1,2,2],
  [5]
]
```

Constraints:

- `1 <= candidates.length <= 300`
- `1 <= candidates[i] <= 50`
- `1 <= target <= 300`

Accepted: 1,487,649 / 1,487,649 Acceptance Rate: 58.1%

Code:

```
class Solution {
    public List<List<Integer>> combinationSum2(int[] candidates, int target) {
        List<List<Integer>> res = new ArrayList<>();
        Arrays.sort(candidates);
        backtrack(candidates, target, 0, new ArrayList<>(), res);
        return res;
    }

    private void backtrack(int[] candidates, int target, int start, List<Integer> path, List<List<Integer>> res) {
        if (target == 0) {
            res.add(new ArrayList<>(path));
            return;
        }
        for (int i = start; i < candidates.length; i++) {
            if (i > start && candidates[i] == candidates[i - 1]) continue;
            if (candidates[i] > target) break;
            path.add(candidates[i]);
            backtrack(candidates, target - candidates[i], i + 1, path, res);
            path.remove(path.size() - 1);
        }
    }
}
```

Accepted: 1,487,649 / 1,487,649 Runtime: 0 ms

Testcase: **Test Result**

Case 1 - Case 2

Input:

```
candidates = [10,1,2,7,6,1,5]
target = 8
```

Output:

```
[[1,7],[1,2,5],[1,7],[2,6]]
```

Expected:

```
[[1,7],[1,2,5],[1,7],[2,6]]
```

41. First Missing Positive.JAVA

41. First Missing Positive

Given an unsorted integer array `nums`. Return the smallest positive integer that is not present in `nums`.

You must implement an algorithm that runs in $O(n)$ time and uses $O(1)$ auxiliary space.

Example 1:

Input: `nums = [1,2,0]`
Output: 3
Explanation: The numbers in the range [1,2] are all in the array.

Example 2:

Input: `nums = [3,4,-1,1]`
Output: 2
Explanation: 1 is in the array but 2 is missing.

Example 3:

Input: `nums = [7,8,9,11,12]`
Output: 1
Explanation: The smallest positive integer 1 is missing.

Constraints:

- `1 <= nums.length <= 300`
- `-231 <= nums[i] <= 231 - 1`

Accepted: 1,549,571 / 1,549,571 Acceptance Rate: 41.5%

Code:

```
class Solution {
    public int firstMissingPositive(int[] nums) {
        int n = nums.length;
        for (int i = 0; i < n; i++) {
            while (nums[i] >= 0 && nums[i] <= n && nums[nums[i] - 1] != nums[i]) {
                int temp = nums[nums[i] - 1];
                nums[nums[i] - 1] = nums[i];
                nums[i] = temp;
            }
        }
        for (int i = 0; i < n; i++) {
            if (nums[i] != i + 1) return i + 1;
        }
        return n + 1;
    }
}
```

Accepted: 1,549,571 / 1,549,571 Runtime: 0 ms

Testcase: **Test Result**

Case 1 - Case 2 - Case 3

Input:

```
nums = [1,2,0]
```

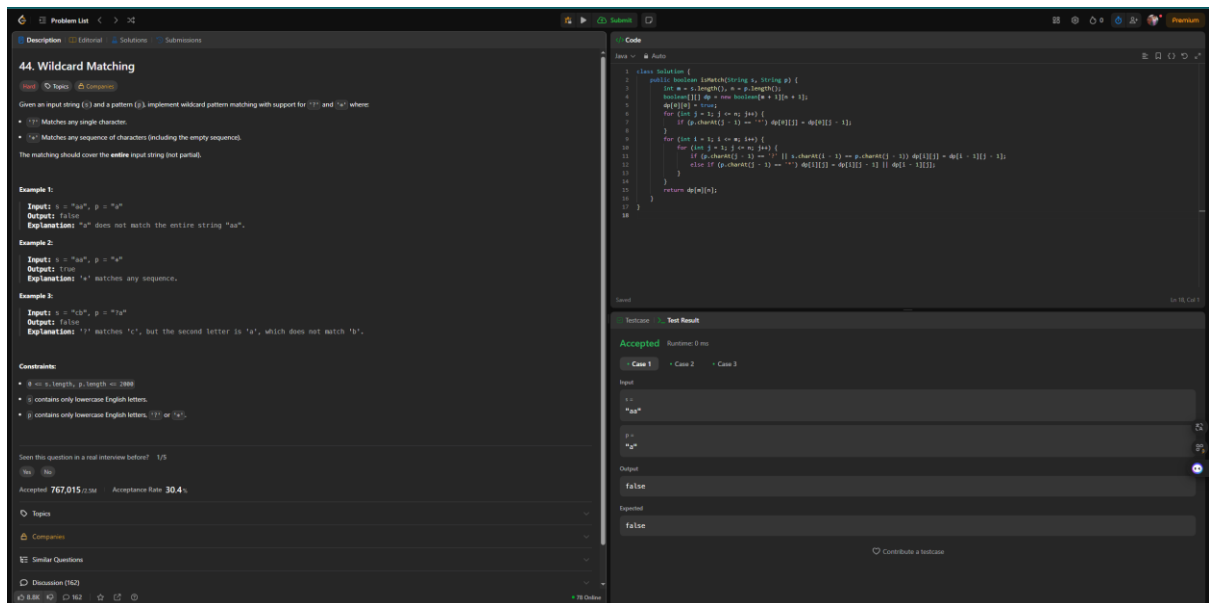
Output:

```
3
```

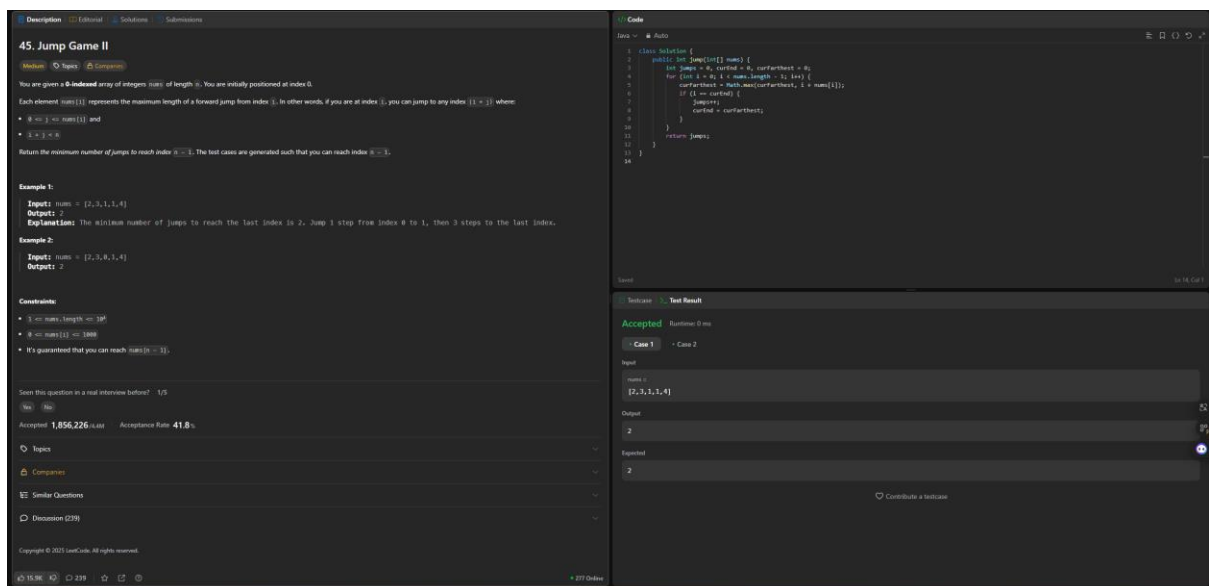
Expected:

```
3
```

42. Trapping Rain Water.JAVA



45. Jump Game II.JAVA



46. Permutations.JAVA

46. Permutations

Given an array `nums` of distinct integers, return all the possible **permutations**. You can return the answer in **any order**.

Example 1:
Input: `nums = [1,2,3]`
Output: `[[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,1,2],[3,2,1]]`

Example 2:
Input: `nums = [3]`
Output: `[[3]]`

Constraints:

- `1 <= nums.length <= 6`
- `-10 <= nums[i] <= 10`
- All the integers of `nums` are unique.

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted: 2,753,655 / 1,000 Acceptance Rate: 81.0%

Topics: Array, Backtracking

Similar Questions: Permutations II, Subsets, Subsets II

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```
class Solution {
    public List<List<Integer>> permute(int[] nums) {
        List<List<Integer>> res = new ArrayList<>();
        backtrack(nums, new ArrayList<>(), res, new boolean[nums.length]);
        return res;
    }

    private void backtrack(int[] nums, List<Integer> path, List<List<Integer>> res, boolean[] used) {
        if (path.size() == nums.length) {
            res.add(new ArrayList<>(path));
            return;
        }
        for (int i = 0; i < nums.length; i++) {
            if (used[i]) continue;
            used[i] = true;
            path.add(nums[i]);
            backtrack(nums, path, res, used);
            path.remove(path.size() - 1);
            used[i] = false;
        }
    }
}
```

Testcase: **Accepted** Runtime: 0 ms

Case 1: Case 2: Case 3:

Input: `nums = [1,2,3]`

Output: `[[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,1,2],[3,2,1]]`

Expected: `[[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,1,2],[3,2,1]]`

[Contribute a solution](#)

47. Permutations II.JAVA

47. Permutations II

Given a collection of numbers (which may contain duplicates), return all possible **unique permutations** in **any order**.

Example 1:
Input: `nums = [1,1,2]`
Output: `[[1,1,2],[1,2,1],[2,1,1]]`

Example 2:
Input: `nums = [1,2,3]`
Output: `[[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,1,2],[3,2,1]]`

Constraints:

- `1 <= nums.length <= 8`
- `-10 <= nums[i] <= 10`

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted: 1,160,911 / 1,000 Acceptance Rate: 62.1%

Topics: Array, Backtracking

Similar Questions: Permutations, Subsets, Subsets II

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```
class Solution {
    public List<List<Integer>> permuteUnique(int[] nums) {
        List<List<Integer>> res = new ArrayList<>();
        Arrays.sort(nums);
        backtrack(nums, new ArrayList<>(), res, new boolean[nums.length]);
        return res;
    }

    private void backtrack(int[] nums, List<Integer> path, List<List<Integer>> res, boolean[] used) {
        if (path.size() == nums.length) {
            res.add(new ArrayList<>(path));
            return;
        }
        for (int i = 0; i < nums.length; i++) {
            if (used[i]) continue;
            if (i > 0 & nums[i] == nums[i - 1] && !used[i - 1]) continue;
            used[i] = true;
            path.add(nums[i]);
            backtrack(nums, path, res, used);
            path.remove(path.size() - 1);
            used[i] = false;
        }
    }
}
```

Testcase: **Accepted** Runtime: 1 ms

Case 1: Case 2:

Input: `nums = [1,1,2]`

Output: `[[1,1,2],[1,2,1],[2,1,1]]`

Expected: `[[1,1,2],[1,2,1],[2,1,1]]`

[Contribute a solution](#)

48. Rotate Image.JAVA

Problem List

Description

Editorial

Solutions

Submissions

48. Rotate Image

Medium

Topics

Companies

You are given an $n \times n$ 2D `matrix` representing an image, rotate the image by **90 degrees clockwise**.

You have to rotate the image **in-place**, which means you have to modify the input 2D matrix directly. **DO NOT** allocate another 2D matrix and do the rotation.

Example 1:

1	2	3		7	4	1
4	5	6		8	5	2
7	8	9		9	6	3

Input: `matrix = [[1,2,3],[4,5,6],[7,8,9]]`
Output: `[[7,4,1],[9,6,3],[8,5,2]]`

Example 2:

5	1	9	11		15	13	2	5
2	4	8	10		14	3	4	1
13	3	6	7		12	6	8	9
15	14	12	16		16	7	10	11

Input: `matrix = [[5,1,9,11],[2,4,8,10],[13,3,6,7],[15,14,12,16]]`
Output: `[[15,13,2,5],[14,3,4,1],[12,6,8,9],[16,7,10,11]]`

Constraints:

- $n == matrix.length == matrix[i].length$
- $1 \leq n \leq 20$
- $0 \leq matrix[i][j] \leq 2000$

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted **2,462,507** / 1.1M Acceptance Rate **78.5%**

19.9K 82 287 17 224 Online

Code

Java

Auto

```

1 class Solution {
2     public void rotate(int[][] matrix) {
3         int n = matrix.length;
4         for (int i = 0; i < n; i++) {
5             for (int j = 0; j < n; j++) {
6                 int temp = matrix[i][j];
7                 matrix[i][j] = matrix[j][i];
8                 matrix[j][i] = temp;
9             }
10        }
11    }
12}

```

Save Testcase Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

Input

`matrix =`

`[[1,2,3],[4,5,6],[7,8,9]]`

Output

`[[7,4,1],[9,6,3],[8,5,2]]`

Expected

`[[7,4,1],[9,6,3],[8,5,2]]`

Contribute a testcase

49. Group Anagrams.JAVA

Problem List

Description

Editorial

Solutions

Submissions

49. Group Anagrams

Medium

Topics

Companies

Given an array of strings `strs`, group the **anagrams** together. You can return the answer in **any order**.

Example 1:

Input: `strs = ["eat","tea","tan","ate","nat","bat"]`
Output: `[["eat","tea","tan","ate","nat"],["bat"]]`

Explanation:

- There is no string in `strs` that can be rearranged to form `"bat"`.
- The strings `"eat"` and `"tea"` are anagrams as they can be rearranged to form each other.
- The strings `"tan"`, `"nat"`, and `"ate"` are anagrams as they can be rearranged to form each other.

Example 2:

Input: `strs = [""]`
Output: `[[""]]`

Example 3:

Input: `strs = ["a"]`
Output: `[["a"]]`

Constraints:

- $1 \leq str.length \leq 100$
- $1 \leq str.length \leq 1000$
- `strs[i]` consists of lowercase English letters.

Seen this question in a real interview before? ☐ Yes ☒ No

Accepted **4,071,474** / 1.7M Acceptance Rate **71.4%**

Topics Companies Similar Questions

21K 339 17 433 Online

Code

Java

Auto

```

1 class Solution {
2     public List<List<String>> groupAnagrams(String[] strs) {
3         Map<String, List<String>> map = new HashMap<>();
4         for (String s : strs) {
5             char[] arr = s.toCharArray();
6             Arrays.sort(arr);
7             String key = new String(arr);
8             map.computeIfAbsent(key, k -> new ArrayList<>()).add(s);
9         }
10        return new ArrayList<List<String>>(map.values());
11    }
12}

```

Save Testcase Test Result

Accepted Runtime: 0 ms

Case 1 Case 2 Case 3

Input

`strs =`

`["eat","tea","tan","ate","nat","bat"]`

Output

`[["eat","tea","tan","ate","nat"],["bat"]]`

Expected

`[["eat","tea","tan","ate","nat"],["bat"]]`

Contribute a testcase

50. Pow(x, n).JAVA

Problem

Editorial

Solutions

Submissions

50. Pow(x, n)

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Implement `pow(x, n)`, which calculates x raised to the power n (i.e., x^n).

Example 1:
Input: $x = 2.00000, n = 10$
Output: `1024.00000`

Example 2:
Input: $x = 2.14700, n = 3$
Output: `9.26100`

Example 3:
Input: $x = 2.00000, n = -2$
Output: `0.25000`
Explanation: $2^{-2} = 1/2^2 = 1/4 = 0.25$

Constraints:

- $-100.0 < x < 100.0$
- $-2^{31} \leq n \leq 2^{31} - 1$
- n is an integer.
- Either x is not zero or $n > 0$.
- $-10^9 \leq x^n \leq 10^9$

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Code

Java

Auto

```

1 class Solution {
2     public double myPow(double x, int n) {
3         long N = n;
4         if (N < 0) {
5             x = 1 / x;
6             N = -N;
7         }
8         double res = 1;
9         while (N > 0) {
10             if ((N & 1) == 1) res *= x;
11             x *= x;
12             N /= 2;
13         }
14         return res;
15     }
16 }
17

```

Test

Test Result

Accepted

Runtime: 0 ms

Case 1

Case 2

Case 3

Input

$x =$

`2.00000`

$n =$

`10`

Output

`1024.00000`

Expected

`1024.00000`

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