

## LeetCode Questions for DSA Preparation (Senior Software Engineer Job Switch)

### Arrays and Strings

#### Easy:

1. Two Sum: <https://leetcode.com/problems/two-sum>
2. Best Time to Buy and Sell Stock: <https://leetcode.com/problems/best-time-to-buy-and-sell-stock/>
3. Contains Duplicate: <https://leetcode.com/problems/contains-duplicate/>
4. Valid Palindrome: <https://leetcode.com/problems/valid-palindrome/>
5. Move Zeroes: <https://leetcode.com/problems/move-zeroes/>
6. Reverse String: <https://leetcode.com/problems/reverse-string/>
7. Rotate Array: <https://leetcode.com/problems/rotate-array/>
8. Longest Common Prefix: <https://leetcode.com/problems/longest-common-prefix/>
9. Remove Duplicates from Sorted Array: <https://leetcode.com/problems/remove-duplicates-from-sorted-array/>
10. Implement strStr(): <https://leetcode.com/problems/implement-strstr/>

#### Medium:

1. 3Sum: <https://leetcode.com/problems/3sum/>
2. Container With Most Water: <https://leetcode.com/problems/container-with-most-water/>
3. Longest Substring Without Repeating Characters: <https://leetcode.com/problems/longest-substring-without-repeating-characters/>
4. Group Anagrams: <https://leetcode.com/problems/group-anagrams/>
5. Increasing Triplet Subsequence: <https://leetcode.com/problems/increasing-triplet-subsequence/>
6. Longest Palindromic Substring: <https://leetcode.com/problems/longest-palindromic-substring/>
7. Next Permutation: <https://leetcode.com/problems/next-permutation/>
8. Product of Array Except Self: <https://leetcode.com/problems/product-of-array-except-self/>
9. Spiral Matrix: <https://leetcode.com/problems/spiral-matrix/>
10. Find the Duplicate Number: <https://leetcode.com/problems/find-the-duplicate-number/>

#### Hard:

1. Median of Two Sorted Arrays: <https://leetcode.com/problems/median-of-two-sorted-arrays/>

2. First Missing Positive: <https://leetcode.com/problems/first-missing-positive/>
3. Trapping Rain Water: <https://leetcode.com/problems/trapping-rain-water/>
4. Minimum Window Substring: <https://leetcode.com/problems/minimum-window-substring/>
5. Word Ladder: <https://leetcode.com/problems/word-ladder/>
6. Regular Expression Matching: <https://leetcode.com/problems/regular-expression-matching/>
7. Wildcard Matching: <https://leetcode.com/problems/wildcard-matching/>
8. Distinct Subsequences: <https://leetcode.com/problems/distinct-subsequences/>
9. Scramble String: <https://leetcode.com/problems/scramble-string/>

## **Linked Lists**

### **Easy:**

1. Reverse Linked List: <https://leetcode.com/problems/reverse-linked-list/>
2. Merge Two Sorted Lists: <https://leetcode.com/problems/merge-two-sorted-lists/>
3. Linked List Cycle: <https://leetcode.com/problems/linked-list-cycle/>
4. Remove Linked List Elements: <https://leetcode.com/problems/remove-linked-list-elements/>
5. Intersection of Two Linked Lists: <https://leetcode.com/problems/intersection-of-two-linked-lists/>
6. Palindrome Linked List: <https://leetcode.com/problems/palindrome-linked-list/>

### **Medium:**

1. Add Two Numbers: <https://leetcode.com/problems/add-two-numbers/>
2. Remove Nth Node From End of List: <https://leetcode.com/problems/remove-nth-node-from-end-of-list/>
3. Reorder List: <https://leetcode.com/problems/reorder-list/>
4. Partition List: <https://leetcode.com/problems/partition-list/>
5. Reverse Linked List II: <https://leetcode.com/problems/reverse-linked-list-ii/>
6. Rotate List: <https://leetcode.com/problems/rotate-list/>
7. Copy List with Random Pointer: <https://leetcode.com/problems/copy-list-with-random-pointer/>
8. Linked List Cycle II: <https://leetcode.com/problems/linked-list-cycle-ii/>

### **Hard:**

1. Merge k Sorted Lists: <https://leetcode.com/problems/merge-k-sorted-lists/>
2. Reverse Nodes in k-Group: <https://leetcode.com/problems/reverse-nodes-in-k-group/>

## Trees

### Easy:

1. Maximum Depth of Binary Tree: <https://leetcode.com/problems/maximum-depth-of-binary-tree/>
2. Same Tree: <https://leetcode.com/problems/same-tree/>
3. Invert Binary Tree: <https://leetcode.com/problems/invert-binary-tree/>
4. Binary Tree Level Order Traversal: <https://leetcode.com/problems/binary-tree-level-order-traversal/>
5. Symmetric Tree: <https://leetcode.com/problems/symmetric-tree/>
6. Path Sum: <https://leetcode.com/problems/path-sum/>
7. Convert Sorted Array to Binary Search Tree:  
<https://leetcode.com/problems/convert-sorted-array-to-binary-search-tree/>

### Medium:

1. Binary Tree Inorder Traversal: <https://leetcode.com/problems/binary-tree-inorder-traversal/>
2. Binary Tree Preorder Traversal: <https://leetcode.com/problems/binary-tree-preorder-traversal/>
3. Binary Tree Postorder Traversal: <https://leetcode.com/problems/binary-tree-postorder-traversal/>
4. Binary Tree Zigzag Level Order Traversal: <https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/>
5. Construct Binary Tree from Preorder and Inorder Traversal:  
<https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/>
6. Construct Binary Tree from Inorder and Postorder Traversal:  
<https://leetcode.com/problems/construct-binary-tree-from-inorder-and-postorder-traversal/>
7. Validate Binary Search Tree: <https://leetcode.com/problems/validate-binary-search-tree/>
8. Kth Smallest Element in a BST: <https://leetcode.com/problems/kth-smallest-element-in-a-bst/>
9. Lowest Common Ancestor of a Binary Search Tree:  
<https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/>
10. Binary Tree Right Side View: <https://leetcode.com/problems/binary-tree-right-side-view/>

11. Count Complete Tree Nodes: <https://leetcode.com/problems/count-complete-tree-nodes/>

**Hard:**

1. Binary Tree Maximum Path Sum: <https://leetcode.com/problems/binary-tree-maximum-path-sum/>
2. Serialize and Deserialize Binary Tree: <https://leetcode.com/problems/serialize-and-deserialize-binary-tree/>
3. Recover Binary Search Tree: <https://leetcode.com/problems/recover-binary-search-tree/>
4. Unique Binary Search Trees II: <https://leetcode.com/problems/unique-binary-search-trees-ii/>

**Sorting and Searching**

**Easy:**

1. Merge Sorted Array: <https://leetcode.com/problems/merge-sorted-array/>
2. First Bad Version: <https://leetcode.com/problems/first-bad-version/>

**Medium:**

1. Sort Colors: <https://leetcode.com/problems/sort-colors/>
2. Search in Rotated Sorted Array: <https://leetcode.com/problems/search-in-rotated-sorted-array/>
3. Find Peak Element: <https://leetcode.com/problems/find-peak-element/>
4. Search a 2D Matrix II: <https://leetcode.com/problems/search-a-2d-matrix-ii/>

**Hard:**

1. Median of Two Sorted Arrays: <https://leetcode.com/problems/median-of-two-sorted-arrays/>
2. First Missing Positive: <https://leetcode.com/problems/first-missing-positive/>

## Dynamic Programming

### Easy:

1. Climbing Stairs: <https://leetcode.com/problems/climbing-stairs/>
2. Best Time to Buy and Sell Stock: <https://leetcode.com/problems/best-time-to-buy-and-sell-stock/>
3. Maximum Subarray: <https://leetcode.com/problems/maximum-subarray/>
4. House Robber: <https://leetcode.com/problems/house-robber/>

### Medium:

1. Unique Paths: <https://leetcode.com/problems/unique-paths/>
2. Longest Increasing Subsequence: <https://leetcode.com/problems/longest-increasing-subsequence/>
3. Coin Change: <https://leetcode.com/problems/coin-change/>
4. Jump Game: <https://leetcode.com/problems/jump-game/>
5. Word Break: <https://leetcode.com/problems/word-break/>
6. Decode Ways: <https://leetcode.com/problems/decode-ways/>
7. Unique Paths II: <https://leetcode.com/problems/unique-paths-ii/>

### Hard:

1. Edit Distance: <https://leetcode.com/problems/edit-distance/>
2. Regular Expression Matching: <https://leetcode.com/problems/regular-expression-matching/>
3. Best Time to Buy and Sell Stock III: <https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iii/>
4. Minimum Difficulty of a Job Schedule: <https://leetcode.com/problems/minimum-difficulty-of-a-job-schedule/>

## Graphs

**Easy:**

1. Number of Islands: <https://leetcode.com/problems/number-of-islands/>
2. Course Schedule: <https://leetcode.com/problems/course-schedule/>

**Medium:**

1. Clone Graph: <https://leetcode.com/problems/clone-graph/>
2. Pacific Atlantic Water Flow: <https://leetcode.com/problems/pacific-atlantic-water-flow/>
3. Number of Connected Components in an Undirected Graph: <https://leetcode.com/problems/number-of-connected-components-in-an-undirected-graph/>
4. Graph Valid Tree: <https://leetcode.com/problems/graph-valid-tree/>
5. Course Schedule II: <https://leetcode.com/problems/course-schedule-ii/>

**Hard:**

1. Alien Dictionary: <https://leetcode.com/problems/alien-dictionary/>
2. Word Ladder II: <https://leetcode.com/problems/word-ladder-ii/>

**Backtracking****Medium:**

1. Letter Combinations of a Phone Number: <https://leetcode.com/problems/letter-combinations-of-a-phone-number/>
2. Generate Parentheses: <https://leetcode.com/problems/generate-parentheses/>
3. Permutations: <https://leetcode.com/problems/permutations/>
4. Subsets: <https://leetcode.com/problems/subsets/>
5. Combinations: <https://leetcode.com/problems/combinations/>

**Hard:**

1. Sudoku Solver: <https://leetcode.com/problems/sudoku-solver/>
2. N-Queens: <https://leetcode.com/problems/n-queens/>
3. Word Search II: <https://leetcode.com/problems/word-search-ii/>

**Greedy Algorithms**

**Easy:**

1. Best Time to Buy and Sell Stock II: <https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/>
2. Assign Cookies: <https://leetcode.com/problems/assign-cookies/>
3. Lemonade Change: <https://leetcode.com/problems/lemonade-change/>

**Medium:**

1. Jump Game II: <https://leetcode.com/problems/jump-game-ii/>
2. Gas Station: <https://leetcode.com/problems/gas-station/>
3. Task Scheduler: <https://leetcode.com/problems/task-scheduler/>
4. Non-overlapping Intervals: <https://leetcode.com/problems/non-overlapping-intervals/>

**Hard:**

1. Candy: <https://leetcode.com/problems/candy/>
2. Create Maximum Number: <https://leetcode.com/problems/create-maximum-number/>