**Top 10 algorithms in Interview Questions**

**Graph**

1. [Breadth First Search (BFS)](https://www.geeksforgeeks.org/breadth-first-traversal-for-a-graph/)  
2. [Depth First Search (DFS)](https://www.geeksforgeeks.org/depth-first-traversal-for-a-graph/)  
3. [Shortest Path from source to all vertices \*\*Dijkstra\*\*](https://www.geeksforgeeks.org/greedy-algorithms-set-6-dijkstras-shortest-path-algorithm/)  
4. [Shortest Path from every vertex to every other vertex \*\*Floyd Warshall\*\*](https://www.geeksforgeeks.org/dynamic-programming-set-16-floyd-warshall-algorithm/)  
5. [To detect cycle in a Graph \*\*Union Find\*\*](https://www.geeksforgeeks.org/union-find/)  
6. [Minimum Spanning tree \*\*Prim\*\*](https://www.geeksforgeeks.org/greedy-algorithms-set-5-prims-minimum-spanning-tree-mst-2/)  
7. [Minimum Spanning tree \*\*Kruskal\*\*](https://www.geeksforgeeks.org/greedy-algorithms-set-2-kruskals-minimum-spanning-tree-mst/)  
8. [Topological Sort](https://www.geeksforgeeks.org/topological-sorting/)  
9. [Boggle (Find all possible words in a board of characters)](https://www.geeksforgeeks.org/boggle-find-possible-words-board-characters/)  
10. [Bridges in a Graph](https://www.geeksforgeeks.org/bridge-in-a-graph/)

**Linked List**

1. [Insertion of a node in Linked List (On the basis of some constraints)](https://www.geeksforgeeks.org/given-a-linked-list-which-is-sorted-how-will-you-insert-in-sorted-way/)  
2. [Delete a given node in Linked List (under given constraints)](https://www.geeksforgeeks.org/delete-a-given-node-in-linked-list-under-given-constraints/)  
3. [Compare two strings represented as linked lists](https://www.geeksforgeeks.org/compare-two-strings-represented-as-linked-lists/)  
4. [Add Two Numbers Represented By Linked Lists](https://www.geeksforgeeks.org/sum-of-two-linked-lists/)  
5. [Merge A Linked List Into Another Linked List At Alternate Positions](https://www.geeksforgeeks.org/merge-a-linked-list-into-another-linked-list-at-alternate-positions/)  
6. [Reverse A List In Groups Of Given Size](https://www.geeksforgeeks.org/reverse-a-list-in-groups-of-given-size/)  
7. [Union And Intersection Of 2 Linked Lists](https://www.geeksforgeeks.org/union-and-intersection-of-two-linked-lists/)  
8. [Detect And Remove Loop In A Linked List](https://www.geeksforgeeks.org/detect-and-remove-loop-in-a-linked-list/)  
9. [Merge Sort For Linked Lists](https://www.geeksforgeeks.org/merge-sort-for-linked-list/)  
10. [Select A Random Node from A Singly Linked List](https://www.geeksforgeeks.org/select-a-random-node-from-a-singly-linked-list/)

**Dynamic Programming**

1. [Longest Common Subsequence](https://www.geeksforgeeks.org/dynamic-programming-set-4-longest-common-subsequence/)  
2. [Longest Increasing Subsequence](https://www.geeksforgeeks.org/dynamic-programming-set-3-longest-increasing-subsequence/)  
3. [Edit Distance](https://www.geeksforgeeks.org/dynamic-programming-set-5-edit-distance/)  
4. [Minimum Partition](https://www.geeksforgeeks.org/partition-a-set-into-two-subsets-such-that-the-difference-of-subset-sums-is-minimum/)  
5. [Ways to Cover a Distance](https://www.geeksforgeeks.org/count-number-of-ways-to-cover-a-distance/)  
6. [Longest Path In Matrix](https://www.geeksforgeeks.org/find-the-longest-path-in-a-matrix-with-given-constraints/)  
7. [Subset Sum Problem](https://www.geeksforgeeks.org/dynamic-programming-subset-sum-problem/)  
8. [Optimal Strategy for a Game](https://www.geeksforgeeks.org/dynamic-programming-set-31-optimal-strategy-for-a-game/)  
9. [0-1 Knapsack Problem](https://www.geeksforgeeks.org/dynamic-programming-set-10-0-1-knapsack-problem/)  
10. [Boolean Parenthesization Problem](https://www.geeksforgeeks.org/dynamic-programming-set-37-boolean-parenthesization-problem/)

**Sorting And Searching**

1. [Binary Search](http://geeksquiz.com/binary-search/)  
2. [Search an element in a sorted and rotated array](https://www.geeksforgeeks.org/search-an-element-in-a-sorted-and-pivoted-array/)  
3. [Bubble Sort](http://geeksquiz.com/bubble-sort/)  
4. [Insertion Sort](http://geeksquiz.com/insertion-sort/)  
5. [Merge Sort](http://geeksquiz.com/merge-sort/)  
6. [Heap Sort (Binary Heap)](http://geeksquiz.com/heap-sort/)  
7. [Quick Sort](http://geeksquiz.com/quick-sort/)  
8. [Interpolation Search](https://www.geeksforgeeks.org/interpolation-search/)  
9. [Find Kth Smallest/Largest Element In Unsorted Array](https://www.geeksforgeeks.org/kth-smallestlargest-element-unsorted-array-set-2-expected-linear-time/)  
10. [Given a sorted array and a number x, find the pair in array whose sum is closest to x](http://geeksquiz.com/given-sorted-array-number-x-find-pair-array-whose-sum-closest-x/)

**Tree / Binary Search Tree**

1. [Find Minimum Depth of a Binary Tree](https://www.geeksforgeeks.org/find-minimum-depth-of-a-binary-tree/)  
2. [Maximum Path Sum in a Binary Tree](https://www.geeksforgeeks.org/find-maximum-path-sum-in-a-binary-tree/)  
3. [Check if a given array can represent Preorder Traversal of Binary Search Tree](https://www.geeksforgeeks.org/check-if-a-given-array-can-represent-preorder-traversal-of-binary-search-tree/)  
4. [Check whether a binary tree is a full binary tree or not](https://www.geeksforgeeks.org/check-whether-binary-tree-full-binary-tree-not/)  
5. [Bottom View Binary Tree](https://www.geeksforgeeks.org/bottom-view-binary-tree/)  
6. [Print Nodes in Top View of Binary Tree](https://www.geeksforgeeks.org/print-nodes-top-view-binary-tree/)  
7. [Remove nodes on root to leaf paths of length < K](https://www.geeksforgeeks.org/remove-nodes-root-leaf-paths-length-k/)  
8. [Lowest Common Ancestor in a Binary Search Tree](https://www.geeksforgeeks.org/lowest-common-ancestor-in-a-binary-search-tree/)  
9. [Check if a binary tree is subtree of another binary tree](https://www.geeksforgeeks.org/check-binary-tree-subtree-another-binary-tree-set-2/)  
10. [Reverse alternate levels of a perfect binary tree](https://www.geeksforgeeks.org/reverse-alternate-levels-binary-tree/)

**Number Theory**

1. [Modular Exponentiation](https://www.geeksforgeeks.org/modular-exponentiation-power-in-modular-arithmetic/)  
2. [Modular multiplicative inverse](https://www.geeksforgeeks.org/multiplicative-inverse-under-modulo-m/)  
3. [Primality Test | Set 2 (Fermat Method)](https://www.geeksforgeeks.org/primality-test-set-2-fermet-method/)  
4. [Euler’s Totient Function](https://www.geeksforgeeks.org/eulers-totient-function/)  
5. [Sieve of Eratosthenes](https://www.geeksforgeeks.org/sieve-of-eratosthenes/)  
6. [Convex Hull](https://www.geeksforgeeks.org/convex-hull-set-1-jarviss-algorithm-or-wrapping/)  
7. [Basic and Extended Euclidean algorithms](https://www.geeksforgeeks.org/basic-and-extended-euclidean-algorithms/)  
8. [Segmented Sieve](https://www.geeksforgeeks.org/segmented-sieve/)  
9. [Chinese remainder theorem](https://www.geeksforgeeks.org/chinese-remainder-theorem-set-1-introduction/)  
10. [Lucas Theorem](https://www.geeksforgeeks.org/compute-ncr-p-set-2-lucas-theorem/)

**BIT Manipulation**

1. [Maximum Subarray XOR](https://www.geeksforgeeks.org/find-the-maximum-subarray-xor-in-a-given-array/)  
2. [Magic Number](https://www.geeksforgeeks.org/find-nth-magic-number/)  
3. [Sum of bit differences among all pairs](https://www.geeksforgeeks.org/sum-of-bit-differences-among-all-pairs/)  
4. [Swap All Odds And Even Bits](https://www.geeksforgeeks.org/swap-all-odd-and-even-bits/)  
5. [Find the element that appears once](https://www.geeksforgeeks.org/find-the-element-that-appears-once/)  
6. [Binary representation of a given number](https://www.geeksforgeeks.org/binary-representation-of-a-given-number/)  
7. [Count total set bits in all numbers from 1 to n](https://www.geeksforgeeks.org/count-total-set-bits-in-all-numbers-from-1-to-n/)  
8. [Rotate bits of a number](https://www.geeksforgeeks.org/rotate-bits-of-an-integer/)  
9. [Count number of bits to be flipped to convert A to B](https://www.geeksforgeeks.org/count-number-of-bits-to-be-flipped-to-convert-a-to-b/)  
10. [Find Next Sparse Number](https://www.geeksforgeeks.org/given-a-number-find-next-sparse-number/)

**String / Array**

1. [Reverse an array without affecting special characters](https://www.geeksforgeeks.org/reverse-an-array-without-affecting-special-characters/)  
2. [All Possible Palindromic Partitions](https://www.geeksforgeeks.org/given-a-string-print-all-possible-palindromic-partition/)  
3. [Count triplets with sum smaller than a given value](https://www.geeksforgeeks.org/count-triplets-with-sum-smaller-that-a-given-value/)  
4. [Convert array into Zig-Zag fashion](https://www.geeksforgeeks.org/convert-array-into-zig-zag-fashion/)  
5. [Generate all possible sorted arrays from alternate elements of two given sorted arrays](https://www.geeksforgeeks.org/generate-all-possible-sorted-arrays-from-alternate-elements-of-two-given-arrays/)  
6. [Pythagorean Triplet in an array](https://www.geeksforgeeks.org/find-pythagorean-triplet-in-an-unsorted-array/)  
7. [Length of the largest subarray with contiguous elements](https://www.geeksforgeeks.org/length-largest-subarray-contiguous-elements-set-1/)  
8. [Find the smallest positive integer value that cannot be represented as sum of any subset of a given array](https://www.geeksforgeeks.org/find-smallest-value-represented-sum-subset-given-array/)  
9. [Smallest subarray with sum greater than a given value](https://www.geeksforgeeks.org/minimum-length-subarray-sum-greater-given-value/)  
10. [Stock Buy Sell to Maximize Profit](https://www.geeksforgeeks.org/stock-buy-sell/)