Data Structures

**Linked List:**  
***Singly Linked List:*** [Introduction to Linked List](http://geeksquiz.com/linked-list-set-1-introduction/), [Linked List vs Array](http://www.geeksforgeeks.org/linked-list-vs-array/), [Linked List Insertion](http://geeksquiz.com/linked-list-set-2-inserting-a-node/),[Linked List Deletion](http://geeksquiz.com/linked-list-set-3-deleting-node/), [A Programmer’s approach of looking at Array vs. Linked List](http://geeksquiz.com/programmers-approach-looking-array-vs-linked-list/), [How to write C functions that modify head pointer of a Linked List?](http://www.geeksforgeeks.org/how-to-write-functions-that-modify-the-head-pointer-of-a-linked-list/), [Write a function to get Nth node in a Linked List](http://www.geeksforgeeks.org/write-a-function-to-get-nth-node-in-a-linked-list/), [Given only a pointer to a node to be deleted in a singly linked list, how do you delete it?](http://www.geeksforgeeks.org/given-only-a-pointer-to-a-node-to-be-deleted-in-a-singly-linked-list-how-do-you-delete-it/),[Print the middle of a given linked list](http://www.geeksforgeeks.org/write-a-c-function-to-print-the-middle-of-the-linked-list/), [Nth node from the end of a Linked List](http://www.geeksforgeeks.org/nth-node-from-the-end-of-a-linked-list/), [Write a function to delete a Linked List](http://www.geeksforgeeks.org/write-a-function-to-delete-a-linked-list/), [Write a function that counts the number of times a given int occurs in a Linked List](http://www.geeksforgeeks.org/write-a-function-that-counts-the-number-of-times-a-given-int-occurs-in-a-linked-list/), [Reverse a linked list](http://www.geeksforgeeks.org/write-a-function-to-reverse-the-nodes-of-a-linked-list/), [Detect loop in a linked list](http://www.geeksforgeeks.org/write-a-c-function-to-detect-loop-in-a-linked-list/), [Function to check if a singly linked list is palindrome](http://www.geeksforgeeks.org/function-to-check-if-a-singly-linked-list-is-palindrome/), [Given a linked list which is sorted, how will you insert in sorted way](http://www.geeksforgeeks.org/given-a-linked-list-which-is-sorted-how-will-you-insert-in-sorted-way/),[Intersection point of two Linked Lists.](http://www.geeksforgeeks.org/write-a-function-to-get-the-intersection-point-of-two-linked-lists/), [Recursive function to print reverse of a Linked List](http://www.geeksforgeeks.org/write-a-recursive-function-to-print-reverse-of-a-linked-list/),[Remove duplicates from a sorted linked list](http://www.geeksforgeeks.org/remove-duplicates-from-a-sorted-linked-list/), [Remove duplicates from an unsorted linked list](http://www.geeksforgeeks.org/remove-duplicates-from-an-unsorted-linked-list/),[Pairwise swap elements of a given linked list](http://www.geeksforgeeks.org/pairwise-swap-elements-of-a-given-linked-list/), [Practice questions for Linked List and Recursion](http://www.geeksforgeeks.org/practice-questions-for-linked-list-and-recursion/),[Move last element to front of a given Linked List](http://www.geeksforgeeks.org/move-last-element-to-front-of-a-given-linked-list/), [Intersection of two Sorted Linked Lists](http://www.geeksforgeeks.org/intersection-of-two-sorted-linked-lists/), [Delete alternate nodes of a Linked List](http://www.geeksforgeeks.org/delete-alternate-nodes-of-a-linked-list/), [Alternating split of a given Singly Linked List](http://www.geeksforgeeks.org/alternating-split-of-a-given-singly-linked-list/), [Merge two sorted linked lists](http://www.geeksforgeeks.org/merge-two-sorted-linked-lists/), [Identical Linked Lists](http://www.geeksforgeeks.org/identical-linked-lists/), [Merge Sort for Linked Lists](http://www.geeksforgeeks.org/merge-sort-for-linked-list/), [Reverse a Linked List in groups of given size](http://www.geeksforgeeks.org/reverse-a-list-in-groups-of-given-size/), [Reverse alternate K nodes in a Singly Linked List](http://www.geeksforgeeks.org/reverse-alternate-k-nodes-in-a-singly-linked-list/), [Delete nodes which have a greater value on right side](http://www.geeksforgeeks.org/delete-nodes-which-have-a-greater-value-on-right-side/), [Segregate even and odd nodes in a Linked List](http://www.geeksforgeeks.org/segregate-even-and-odd-elements-in-a-linked-list/), [Detect and Remove Loop in a Linked List](http://www.geeksforgeeks.org/detect-and-remove-loop-in-a-linked-list/), [Add two numbers represented by linked lists | Set 1](http://www.geeksforgeeks.org/add-two-numbers-represented-by-linked-lists/), [Delete a given node in Linked List under given constraints](http://www.geeksforgeeks.org/delete-a-given-node-in-linked-list-under-given-constraints/), [Union and Intersection of two Linked Lists](http://www.geeksforgeeks.org/union-and-intersection-of-two-linked-lists/), [Find a triplet from three linked lists with sum equal to a given number](http://www.geeksforgeeks.org/find-a-triplet-from-three-linked-lists-with-sum-equal-to-a-given-number/), [Rotate a Linked List](http://www.geeksforgeeks.org/rotate-a-linked-list/), [Flattening a Linked List](http://www.geeksforgeeks.org/flattening-a-linked-list/), [Add two numbers represented by linked lists | Set 2](http://www.geeksforgeeks.org/sum-of-two-linked-lists/), [Sort a linked list of 0s, 1s and 2s](http://www.geeksforgeeks.org/sort-a-linked-list-of-0s-1s-or-2s/), [Flatten a multilevel linked list](http://www.geeksforgeeks.org/flatten-a-linked-list-with-next-and-child-pointers/), [Delete N nodes after M nodes of a linked list](http://www.geeksforgeeks.org/delete-n-nodes-after-m-nodes-of-a-linked-list/), [QuickSort on Singly Linked List](http://www.geeksforgeeks.org/quicksort-on-singly-linked-list/" \t "_blank), [Merge a linked list into another linked list at alternate positions](http://www.geeksforgeeks.org/merge-a-linked-list-into-another-linked-list-at-alternate-positions/), [Pairwise swap elements of a given linked list by changing links](http://www.geeksforgeeks.org/pairwise-swap-elements-of-a-given-linked-list-by-changing-links/)  
***Circular Linked List:***[Circular Linked List Introduction and Applications,](http://geeksquiz.com/circular-linked-list/), [Circular Linked List Traversal](http://geeksquiz.com/circular-linked-list-set-2-traversal/), [Split a Circular Linked List into two halves](http://www.geeksforgeeks.org/split-a-circular-linked-list-into-two-halves/), [Sorted insert for circular linked list](http://www.geeksforgeeks.org/sorted-insert-for-circular-linked-list/)  
***Doubly Linked List:***[Doubly Linked List Introduction and Insertion](http://geeksquiz.com/doubly-linked-list/), [Delete a node in a Doubly Linked List](http://www.geeksforgeeks.org/delete-a-node-in-a-doubly-linked-list/),[Reverse a Doubly Linked List](http://www.geeksforgeeks.org/reverse-a-doubly-linked-list/),[The Great Tree-List Recursion Problem.](http://www.geeksforgeeks.org/the-great-tree-list-recursion-problem/), [Copy a linked list with next and arbit pointer](http://www.geeksforgeeks.org/a-linked-list-with-next-and-arbit-pointer/), [QuickSort on Doubly Linked List](http://www.geeksforgeeks.org/quicksort-for-linked-list/" \t "_blank), [Swap Kth node from beginning with Kth node from end in a Linked List](http://www.geeksforgeeks.org/swap-kth-node-from-beginning-with-kth-node-from-end-in-a-linked-list/)  
[Quiz on Linked List](http://geeksquiz.com/data-structure/linked-list/)

**Stack:**  
[Introduction to Stack](http://geeksquiz.com/stack-set-1/), [Infix to Postfix Conversion using Stack](http://geeksquiz.com/stack-set-2-infix-to-postfix/), [Evaluation of Postfix Expression](http://geeksquiz.com/stack-set-4-evaluation-postfix-expression/),[Reverse a Sting using Stack](http://geeksquiz.com/stack-set-3-reverse-string-using-stack/), [Implement two stacks in an array](http://www.geeksforgeeks.org/archives/18754), [Check for balanced parentheses in an expression](http://www.geeksforgeeks.org/archives/6547), [Next Greater Element](http://www.geeksforgeeks.org/archives/8405), [Reverse a stack using recursion](http://www.geeksforgeeks.org/archives/6921), [The Stock Span Problem](http://www.geeksforgeeks.org/the-stock-span-problem/), [Design and Implement Special Stack Data Structure](http://www.geeksforgeeks.org/design-and-implement-special-stack-data-structure/), [Implement Stack using Queues](http://www.geeksforgeeks.org/implement-stack-using-queue/),[Design a stack with operations on middle element](http://www.geeksforgeeks.org/design-a-stack-with-find-middle-operation/)  
[Quiz on Stack](http://geeksquiz.com/data-structure/stack/)

**Queue:**  
[Queue Introduction and Array Implementation](http://geeksquiz.com/queue-set-1introduction-and-array-implementation/), [Linked List Implementation of Queue](http://geeksquiz.com/queue-set-2-linked-list-implementation/), [Applications of Queue Data Structure](http://www.geeksforgeeks.org/archives/11042), [Priority Queue Introduction](http://geeksquiz.com/priority-queue-set-1-introduction/), [Deque (Introduction and Applications)](http://geeksquiz.com/deque-set-1-introduction-applications/" \o "Permanent link to Deque | Set 1 (Introduction and Applications)" \t "_blank),[Implement Queue using Stacks](http://www.geeksforgeeks.org/archives/5009), [Check whether a given Binary Tree is Complete or not](http://www.geeksforgeeks.org/archives/23449), [Find the largest multiple of 3](http://www.geeksforgeeks.org/find-the-largest-number-multiple-of-3/), [Find the first circular tour that visits all petrol pumps](http://www.geeksforgeeks.org/find-a-tour-that-visits-all-stations/), [Maximum of all subarrays of size k](http://www.geeksforgeeks.org/maximum-of-all-subarrays-of-size-k/), [An I nteresting Method to Generate Binary Numbers from 1 to n](http://www.geeksforgeeks.org/interesting-method-generate-binary-numbers-1-n/)  
[Quiz on Queue](http://geeksquiz.com/data-structure/queue/)

**Binary Tree:**  
[Binary Tree Introduction](http://geeksquiz.com/binary-tree-set-1-introduction/), [Applications of tree data structure](http://www.geeksforgeeks.org/applications-of-tree-data-structure/), [Tree Traversals](http://www.geeksforgeeks.org/618/), [Threaded Binary Tree](http://geeksquiz.com/threaded-binary-tree/), [Size of a tree](http://www.geeksforgeeks.org/write-a-c-program-to-calculate-size-of-a-tree/), [Determine if Two Trees are Identical](http://www.geeksforgeeks.org/write-c-code-to-determine-if-two-trees-are-identical/), [Maximum Depth or Height of a Tree](http://www.geeksforgeeks.org/write-a-c-program-to-find-the-maximum-depth-or-height-of-a-tree/),[Write a C program to Delete a Tree.](http://www.geeksforgeeks.org/write-a-c-program-to-delete-a-tree/), [Write an Efficient C Function to Convert a Binary Tree into its Mirror Tree](http://www.geeksforgeeks.org/write-an-efficient-c-function-to-convert-a-tree-into-its-mirror-tree/), [If you are given two traversal sequences, can you construct the binary tree?](http://www.geeksforgeeks.org/if-you-are-given-two-traversal-sequences-can-you-construct-the-binary-tree/),[Given a binary tree, print out all of its root-to-leaf paths one per line.](http://www.geeksforgeeks.org/given-a-binary-tree-print-out-all-of-its-root-to-leaf-paths-one-per-line/), [The Great Tree-List Recursion Problem.](http://www.geeksforgeeks.org/the-great-tree-list-recursion-problem/), [Level Order Tree Traversal](http://www.geeksforgeeks.org/level-order-tree-traversal/), [Count leaf nodes in a binary tree](http://www.geeksforgeeks.org/write-a-c-program-to-get-count-of-leaf-nodes-in-a-binary-tree/), [Level order traversal in spiral form](http://www.geeksforgeeks.org/level-order-traversal-in-spiral-form/), [Check for Children Sum Property in a Binary Tree.](http://www.geeksforgeeks.org/check-for-children-sum-property-in-a-binary-tree/), [Convert an arbitrary Binary Tree to a tree that holds Children Sum Property](http://www.geeksforgeeks.org/convert-an-arbitrary-binary-tree-to-a-tree-that-holds-children-sum-property/), [Diameter of a Binary Tree](http://www.geeksforgeeks.org/diameter-of-a-binary-tree/), [How to determine if a binary tree is height-balanced?](http://www.geeksforgeeks.org/how-to-determine-if-a-binary-tree-is-balanced/), [Inorder Tree Traversal without Recursion](http://www.geeksforgeeks.org/inorder-tree-traversal-without-recursion/" \t "_blank), [Inorder Tree Traversal without recursion and without stack!](http://www.geeksforgeeks.org/inorder-tree-traversal-without-recursion-and-without-stack/" \t "_blank), [Root to leaf path sum equal to a given number](http://www.geeksforgeeks.org/root-to-leaf-path-sum-equal-to-a-given-number/), [Construct Tree from given Inorder and Preorder traversals](http://www.geeksforgeeks.org/construct-tree-from-given-inorder-and-preorder-traversal/), [Given a binary tree, print all root-to-leaf paths](http://www.geeksforgeeks.org/given-a-binary-tree-print-all-root-to-leaf-paths/), [Double Tree](http://www.geeksforgeeks.org/double-tree/), [Maximum width of a binary tree](http://www.geeksforgeeks.org/maximum-width-of-a-binary-tree/), [Foldable Binary Trees](http://www.geeksforgeeks.org/foldable-binary-trees/), [Print nodes at k distance from root](http://www.geeksforgeeks.org/print-nodes-at-k-distance-from-root/), [Get Level of a node in a Binary Tree](http://www.geeksforgeeks.org/get-level-of-a-node-in-a-binary-tree/), [Print Ancestors of a given node in Binary Tree](http://www.geeksforgeeks.org/print-ancestors-of-a-given-node-in-binary-tree/), [Check if a given Binary Tree is SumTree](http://www.geeksforgeeks.org/check-if-a-given-binary-tree-is-sumtree/), [Check if a binary tree is subtree of another binary tree](http://www.geeksforgeeks.org/check-if-a-binary-tree-is-subtree-of-another-binary-tree/), [Connect nodes at same level](http://www.geeksforgeeks.org/connect-nodes-at-same-level/), [Connect nodes at same level using constant extra space](http://www.geeksforgeeks.org/connect-nodes-at-same-level-with-o1-extra-space/), [Populate Inorder Successor for all nodes](http://www.geeksforgeeks.org/populate-inorder-successor-for-all-nodes/), [Convert a given tree to its Sum Tree](http://www.geeksforgeeks.org/convert-a-given-tree-to-sum-tree/),[Vertical Sum in a given Binary Tree](http://www.geeksforgeeks.org/vertical-sum-in-a-given-binary-tree/), [Find the maximum sum leaf to root path in a Binary Tree](http://www.geeksforgeeks.org/find-the-maximum-sum-path-in-a-binary-tree/),[Construct Special Binary Tree from given Inorder traversal](http://www.geeksforgeeks.org/construct-binary-tree-from-inorder-traversal/), [Construct a special tree from given preorder traversal](http://www.geeksforgeeks.org/construct-a-special-tree-from-given-preorder-traversal/), [Check whether a given Binary Tree is Complete or not](http://www.geeksforgeeks.org/check-if-a-given-binary-tree-is-complete-tree-or-not/), [Boundary Traversal of binary tree](http://www.geeksforgeeks.org/boundary-traversal-of-binary-tree/), [Construct Full Binary Tree from given preorder and postorder traversals](http://www.geeksforgeeks.org/full-and-complete-binary-tree-from-given-preorder-and-postorder-traversals/), [Iterative Preorder Traversal](http://www.geeksforgeeks.org/iterative-preorder-traversal/), [Morris traversal for Preorder](http://www.geeksforgeeks.org/morris-traversal-for-preorder/), [Linked complete binary tree & its creation](http://www.geeksforgeeks.org/linked-complete-binary-tree-its-creation/),[Ternary Search Tree](http://www.geeksforgeeks.org/ternary-search-tree/), [Segment Tree | Set 1 (Sum of given range)](http://www.geeksforgeeks.org/segment-tree-set-1-sum-of-given-range/), [Largest Independent Set Problem](http://www.geeksforgeeks.org/largest-independent-set-problem/), [Iterative Postorder Traversal | Set 1 (Using Two Stacks)](http://www.geeksforgeeks.org/iterative-postorder-traversal/), [Iterative Postorder Traversal | Set 2 (Using One Stack)](http://www.geeksforgeeks.org/iterative-postorder-traversal-using-stack/), [Reverse Level Order Traversal](http://www.geeksforgeeks.org/reverse-level-order-traversal/), [Construct Complete Binary Tree from its Linked List Representation](http://www.geeksforgeeks.org/given-linked-list-representation-of-complete-tree-convert-it-to-linked-representation/), [Convert a given Binary Tree to Doubly Linked List | Set 1](http://www.geeksforgeeks.org/in-place-convert-a-given-binary-tree-to-doubly-linked-list/), [Tree Isomorphism Problem](http://www.geeksforgeeks.org/tree-isomorphism-problem/), [Find all possible interpretations of an array of digits](http://www.geeksforgeeks.org/find-all-possible-interpretations/), [Iterative Method to find Height of Binary Tree](http://www.geeksforgeeks.org/iterative-method-to-find-height-of-binary-tree/), [Custom Tree Problem](http://www.geeksforgeeks.org/custom-tree-problem/), [Convert a given Binary Tree to Doubly Linked List | Set 2](http://www.geeksforgeeks.org/convert-a-given-binary-tree-to-doubly-linked-list-set-2/), [Print ancestors of a given binary tree node without recursion](http://www.geeksforgeeks.org/print-ancestors-of-a-given-binary-tree-node-without-recursion/), [Difference between sums of odd level and even level nodes of a Binary Tree](http://www.geeksforgeeks.org/difference-between-sums-of-odd-and-even-levels/), [Print Postorder traversal from given Inorder and Preorder traversals](http://www.geeksforgeeks.org/print-postorder-from-given-inorder-and-preorder-traversals/), [Find depth of the deepest odd level leaf node](http://www.geeksforgeeks.org/find-depth-of-the-deepest-odd-level-node/), [Check if all leaves are at same level](http://www.geeksforgeeks.org/check-leaves-level/), [Print Left View of a Binary Tree](http://www.geeksforgeeks.org/print-left-view-binary-tree/), [Remove all nodes which don’t lie in any path with sum>= k](http://www.geeksforgeeks.org/remove-all-nodes-which-lie-on-a-path-having-sum-less-than-k/), [Extract Leaves of a Binary Tree in a Doubly Linked List](http://www.geeksforgeeks.org/connect-leaves-doubly-linked-list/), [Deepest left leaf node in a binary tree](http://www.geeksforgeeks.org/deepest-left-leaf-node-in-a-binary-tree/), [Find next right node of a given key](http://www.geeksforgeeks.org/find-next-right-node-of-a-given-key/), [Sum of all the numbers that are formed from root to leaf paths](http://www.geeksforgeeks.org/sum-numbers-formed-root-leaf-paths/), [Convert a given Binary Tree to Doubly Linked List | Set 3](http://www.geeksforgeeks.org/convert-given-binary-tree-doubly-linked-list-set-3/), [Lowest Common Ancestor in a Binary Tree | Set 1](http://www.geeksforgeeks.org/lowest-common-ancestor-binary-tree-set-1/), [Find distance between two given keys of a Binary Tree](http://www.geeksforgeeks.org/find-distance-two-given-nodes/), [Print all nodes that are at distance k from a leaf node](http://www.geeksforgeeks.org/print-nodes-distance-k-leaf-node/), [Check if a given Binary Tree is height balanced like a Red-Black Tree, Print all nodes at distance k from a given node](http://www.geeksforgeeks.org/print-nodes-distance-k-given-node-binary-tree/), [Print a Binary Tree in Vertical Order | Set 1, Print all nodes at distance k from a given node](http://www.geeksforgeeks.org/print-nodes-distance-k-given-node-binary-tree/) [Construct a tree from Inorder and Level order traversals](http://www.geeksforgeeks.org/construct-tree-inorder-level-order-traversals/), [Find the maximum path sum between two leaves of a binary tree](http://www.geeksforgeeks.org/find-maximum-path-sum-two-leaves-binary-tree/), [Reverse alternate levels of a perfect binary tree](http://www.geeksforgeeks.org/reverse-alternate-levels-binary-tree/), [Check if two nodes are cousins in a Binary Tree](http://www.geeksforgeeks.org/check-two-nodes-cousins-binary-tree/), [Check if a binary tree is subtree of another binary tree | Set 2](http://www.geeksforgeeks.org/check-binary-tree-subtree-another-binary-tree-set-2/), [Serialize and Deserialize a Binary Tree](http://www.geeksforgeeks.org/serialize-deserialize-binary-tree/), [Print nodes between two given level numbers of a binary tree](http://www.geeksforgeeks.org/given-binary-tree-print-nodes-two-given-level-numbers/),  
[Quiz on Binary Tree](http://geeksquiz.com/data-structure/binary-trees/)  
[Quiz on Binary Tree Traversals](http://geeksquiz.com/data-structure/tree-traversals/)  
[All articles on Tree](http://www.geeksforgeeks.org/category/tree/)

**Binary Search Tree:**  
[Search and Insert in BST](http://geeksquiz.com/binary-search-tree-set-1-search-and-insertion/), [Deletion from BST](http://geeksquiz.com/binary-search-tree-set-2-delete/), [Minimum value in a Binary Search Tree](http://www.geeksforgeeks.org/find-the-minimum-element-in-a-binary-search-tree/), [Inorder predecessor and successor for a given key in BST](http://www.geeksforgeeks.org/inorder-predecessor-successor-given-key-bst/" \o "Permanent link to Inorder predecessor and successor for a given key in BST" \t "_blank), [Check if a binary tree is BST or not](http://www.geeksforgeeks.org/a-program-to-check-if-a-binary-tree-is-bst-or-not/), [Lowest Common Ancestor in a Binary Search Tree.](http://www.geeksforgeeks.org/lowest-common-ancestor-in-a-binary-search-tree/) [Sorted order printing of a given array that represents a BST](http://www.geeksforgeeks.org/sorted-order-printing-of-an-array-that-represents-a-bst/), [Inorder Successor in Binary Search Tree](http://www.geeksforgeeks.org/inorder-successor-in-binary-search-tree/" \t "_blank), [Find k-th smallest element in BST (Order Statistics in BST)](http://www.geeksforgeeks.org/find-k-th-smallest-element-in-bst-order-statistics-in-bst/), [Print BST keys in the given range](http://www.geeksforgeeks.org/print-bst-keys-in-the-given-range/), [Sorted Array to Balanced BST](http://www.geeksforgeeks.org/sorted-array-to-balanced-bst/), [Find the largest BST subtree in a given Binary Tree](http://www.geeksforgeeks.org/find-the-largest-subtree-in-a-tree-that-is-also-a-bst/), [Check for Identical BSTs without building the trees](http://www.geeksforgeeks.org/check-for-identical-bsts-without-building-the-trees/),[Add all greater values to every node in a given BST](http://www.geeksforgeeks.org/add-greater-values-every-node-given-bst/), [Remove BST keys outside the given range](http://www.geeksforgeeks.org/remove-bst-keys-outside-the-given-range/),[Check if each internal node of a BST has exactly one child](http://www.geeksforgeeks.org/check-if-each-internal-node-of-a-bst-has-exactly-one-child/), [Find if there is a triplet in a Balanced BST that adds to zero](http://www.geeksforgeeks.org/find-if-there-is-a-triplet-in-bst-that-adds-to-0/), [Merge two BSTs with limited extra space](http://www.geeksforgeeks.org/merge-two-bsts-with-limited-extra-space/), [Two nodes of a BST are swapped, correct the BST](http://www.geeksforgeeks.org/fix-two-swapped-nodes-of-bst/), [Construct BST from given preorder traversal | Set 1](http://www.geeksforgeeks.org/construct-bst-from-given-preorder-traversa/), [Construct BST from given preorder traversal | Set 2](http://www.geeksforgeeks.org/construct-bst-from-given-preorder-traversal-set-2/), [Floor and Ceil from a BST](http://www.geeksforgeeks.org/floor-and-ceil-from-a-bst/), [Convert a BST to a Binary Tree such that sum of all greater keys is added to every key](http://www.geeksforgeeks.org/convert-bst-to-a-binary-tree/), [Sorted Linked List to Balanced BST](http://www.geeksforgeeks.org/sorted-linked-list-to-balanced-bst/), [In-place conversion of Sorted DLL to Balanced BST](http://www.geeksforgeeks.org/in-place-conversion-of-sorted-dll-to-balanced-bst/), [Find a pair with given sum in a Balanced BST](http://www.geeksforgeeks.org/find-a-pair-with-given-sum-in-bst/),[Total number of possible Binary Search Trees with n keys](http://www.geeksforgeeks.org/g-fact-18/), [Merge Two Balanced Binary Search Trees](http://www.geeksforgeeks.org/merge-two-balanced-binary-search-trees/), [Binary Tree to Binary Search Tree Conversion](http://www.geeksforgeeks.org/binary-tree-to-binary-search-tree-conversion/), [Transform a BST to greater sum tree](http://www.geeksforgeeks.org/transform-bst-sum-tree/),[Inorder predecessor and successor for a given key in BST](http://www.geeksforgeeks.org/inorder-predecessor-successor-given-key-bst/)  
[Quiz on Binary Search Trees](http://geeksquiz.com/data-structure/binary-search-trees/)  
[Quiz on Balanced Binary Search Trees](http://geeksquiz.com/data-structure/balanced-binary-search-trees/)

**Heap:**  
[Binary Heap](http://geeksquiz.com/binary-heap/), [Binomial Heap](http://www.geeksforgeeks.org/binomial-heap-2/), [Heap Sort](http://geeksquiz.com/heap-sort/), [K’th Largest Element in an array](http://www.geeksforgeeks.org/k-largestor-smallest-elements-in-an-array/" \t "_blank), [Sort an almost sorted array/](http://www.geeksforgeeks.org/nearly-sorted-algorithm/), [Sort an almost sorted array/](http://www.geeksforgeeks.org/nearly-sorted-algorithm/), [Tournament Tree (Winner Tree) and Binary Heap](http://www.geeksforgeeks.org/tournament-tree-and-binary-heap/)

**Hashing:**  
[Hashing Introduction](http://geeksquiz.com/hashing-set-1-introduction/), [Print a Binary Tree in Vertical Order](http://www.geeksforgeeks.org/print-binary-tree-vertical-order-set-2/), [Find whether an array is subset of another array](http://www.geeksforgeeks.org/find-whether-an-array-is-subset-of-another-array-set-1/), [Union and Intersection of two Linked Lists](http://www.geeksforgeeks.org/union-and-intersection-of-two-linked-lists/), [Find a pair with given sum](http://www.geeksforgeeks.org/write-a-c-program-that-given-a-set-a-of-n-numbers-and-another-number-x-determines-whether-or-not-there-exist-two-elements-in-s-whose-sum-is-exactly-x/). [Quiz on Hashing](http://geeksquiz.com/data-structure/hash/).

**Graph:**  
***Introduction, DFS and BFS:*** [Graph and its representations](http://www.geeksforgeeks.org/graph-and-its-representations/), [Breadth First Traversal for a Graph](http://www.geeksforgeeks.org/breadth-first-traversal-for-a-graph/),[Depth First Traversal for a Graph](http://www.geeksforgeeks.org/depth-first-traversal-for-a-graph/), [Applications of Depth First Search](http://www.geeksforgeeks.org/applications-of-depth-first-search/), [Detect Cycle in a Directed Graph](http://www.geeksforgeeks.org/detect-cycle-in-a-graph/), [Detect Cycle in a an Undirected Graph](http://www.geeksforgeeks.org/union-find/), [Detect cycle in an undirected graph](http://www.geeksforgeeks.org/detect-cycle-undirected-graph/), [Longest Path in a Directed Acyclic Graph](http://www.geeksforgeeks.org/find-longest-path-directed-acyclic-graph/), [Topological Sorting](http://www.geeksforgeeks.org/topological-sorting/), [Check whether a given graph is Bipartite or not](http://www.geeksforgeeks.org/bipartite-graph/), [Snake and Ladder Problem](http://www.geeksforgeeks.org/snake-ladder-problem-2/)  
***Minimum Spanning Tree:***[Prim’s Minimum Spanning Tree (MST))](http://www.geeksforgeeks.org/greedy-algorithms-set-5-prims-minimum-spanning-tree-mst-2/), [Applications of Minimum Spanning Tree Problem](http://www.geeksforgeeks.org/applications-of-minimum-spanning-tree/), [Prim’s MST for Adjacency List Representation](http://www.geeksforgeeks.org/greedy-algorithms-set-5-prims-mst-for-adjacency-list-representation/), [Kruskal’s Minimum Spanning Tree Algorithm](http://www.geeksforgeeks.org/greedy-algorithms-set-2-kruskals-minimum-spanning-tree-mst/" \o "Permanent link to Greedy Algorithms | Set 2 (Kruskal’s Minimum Spanning Tree Algorithm)" \t "_blank)  
***Shortest Paths:*** [Dijkstra’s shortest path algorithm](http://www.geeksforgeeks.org/greedy-algorithms-set-6-dijkstras-shortest-path-algorithm/" \o "Permanent link to Greedy Algorithms | Set 7 (Dijkstra’s shortest path algorithm)" \t "_blank), [Dijkstra’s Algorithm for Adjacency List Representation](http://www.geeksforgeeks.org/greedy-algorithms-set-7-dijkstras-algorithm-for-adjacency-list-representation/" \o "Permanent link to Greedy Algorithms | Set 8 (Dijkstra’s Algorithm for Adjacency List Representation)" \t "_blank), [Bellman–Ford Algorithm](http://www.geeksforgeeks.org/dynamic-programming-set-23-bellman-ford-algorithm/), [Floyd Warshall Algorithm](http://www.geeksforgeeks.org/dynamic-programming-set-16-floyd-warshall-algorithm/), [Johnson’s algorithm for All-pairs shortest paths](http://www.geeksforgeeks.org/johnsons-algorithm/), [Shortest Path in Directed Acyclic Graph](http://www.geeksforgeeks.org/shortest-path-for-directed-acyclic-graphs/), [Some interesting shortest path questions](http://www.geeksforgeeks.org/interesting-shortest-path-questions-set-1/)  
***Connectivity:***[Find if there is a path between two vertices in a directed graph](http://www.geeksforgeeks.org/find-if-there-is-a-path-between-two-vertices-in-a-given-graph/), [Connectivity in a directed graph](http://www.geeksforgeeks.org/connectivity-in-a-directed-graph/), [Articulation Points (or Cut Vertices) in a Graph](http://www.geeksforgeeks.org/articulation-points-or-cut-vertices-in-a-graph/), [Biconnected graph](http://www.geeksforgeeks.org/biconnectivity-in-a-graph/" \o "Permanent link to Biconnected graph" \t "_blank), [Bridges in a graph](http://www.geeksforgeeks.org/bridge-in-a-graph/), [Eulerian path and circuit](http://www.geeksforgeeks.org/eulerian-path-and-circuit/" \o "Permanent link to Eulerian path and circuit" \t "_blank), [Fleury’s Algorithm for printing Eulerian Path or Circuit](http://www.geeksforgeeks.org/fleurys-algorithm-for-printing-eulerian-path/), [Strongly Connected Components](http://www.geeksforgeeks.org/strongly-connected-components/), [Transitive closure of a graph](http://www.geeksforgeeks.org/transitive-closure-of-a-graph/), [Find the number of islands](http://www.geeksforgeeks.org/find-number-of-islands/), [Count all possible walks from a source to a destination with exactly k edges](http://www.geeksforgeeks.org/count-possible-paths-source-destination-exactly-k-edges/), [Euler Circuit in a Directed Graph](http://www.geeksforgeeks.org/euler-circuit-directed-graph/)  
***Hard Problems:***[Graph Coloring (Introduction and Applications)](http://www.geeksforgeeks.org/graph-coloring-applications/),[Greedy Algorithm for Graph Coloring](http://www.geeksforgeeks.org/graph-coloring-set-2-greedy-algorithm/), [Travelling Salesman Problem (Naive and Dynamic Programming)](http://www.geeksforgeeks.org/travelling-salesman-problem-set-1/), [Travelling Salesman Problem (Approximate using MST)](http://www.geeksforgeeks.org/travelling-salesman-problem-set-2-approximate-using-mst/), [Hamiltonian Cycle](http://www.geeksforgeeks.org/backtracking-set-7-hamiltonian-cycle/)  
***Maximum Flow:*** [Ford-Fulkerson Algorithm for Maximum Flow Problem](http://www.geeksforgeeks.org/ford-fulkerson-algorithm-for-maximum-flow-problem/),[Find maximum number of edge disjoint paths between two vertices](http://www.geeksforgeeks.org/find-edge-disjoint-paths-two-vertices/), [Find minimum s-t cut in a flow network](http://www.geeksforgeeks.org/minimum-cut-in-a-directed-graph/), [Maximum Bipartite Matching](http://www.geeksforgeeks.org/maximum-bipartite-matching/), [Channel Assignment Problem](http://www.geeksforgeeks.org/channel-assignment-problem/)  
[Quiz on Graph](http://geeksquiz.com/data-structure/graph/)  
[Quiz on Graph Traversals](http://geeksquiz.com/algorithms/graph-traversals/)  
[Quiz on Graph Shortest Paths](http://geeksquiz.com/algorithms/graph-shortest-paths/)  
[Quiz on Graph Minimum Spanning Tree](http://geeksquiz.com/algorithms/graph-minimum-spanning-tree/)

**Advanced Data Structure:**  
***Advanced Lists:***[Memory efficient doubly linked list](http://www.geeksforgeeks.org/memory-efficient-doubly-linked-list/), [XOR Linked List – A Memory Efficient Doubly Linked List | Set 1](http://www.geeksforgeeks.org/xor-linked-list-a-memory-efficient-doubly-linked-list-set-1/), [XOR Linked List – A Memory Efficient Doubly Linked List | Set 2](http://www.geeksforgeeks.org/xor-linked-list-a-memory-efficient-doubly-linked-list-set-2/),[Skip List | Set 1 (Introduction)](http://www.geeksforgeeks.org/skip-list/), [Self Organizing List | Set 1 (Introduction)](http://www.geeksforgeeks.org/self-organizing-list-set-1-introduction/" \t "_blank)  
***Trie, Suffix Tree and Suffix Array:***[Trie | (Insert and Search)](http://www.geeksforgeeks.org/trie-insert-and-search/" \o "Permanent link to Trie | (Insert and Search)" \t "_blank), [Trie | (Delete)](http://www.geeksforgeeks.org/trie-delete/" \o "Permanent link to Trie | (Delete)" \t "_blank), [Longest prefix matching – A Trie based solution in Java](http://www.geeksforgeeks.org/longest-prefix-matching-a-trie-based-solution-in-java/), [Suffix Array Introduction](http://www.geeksforgeeks.org/suffix-array-set-1-introduction/), [Suffix Array nLogn Algorithm](http://www.geeksforgeeks.org/suffix-array-set-2-a-nlognlogn-algorithm/),[Suffix Tree Introduction](http://www.geeksforgeeks.org/pattern-searching-set-8-suffix-tree-introduction/), [Print unique rows in a given boolean matrix](http://www.geeksforgeeks.org/print-unique-rows/).  
**AVL Tree:** [AVL Tree | Set 1 (Insertion)](http://www.geeksforgeeks.org/avl-tree-set-1-insertion/), [AVL Tree | Set 2 (Deletion)](http://www.geeksforgeeks.org/avl-tree-set-2-deletion/).  
***Splay Tree:***[Splay Tree | Set 1 (Search)](http://www.geeksforgeeks.org/splay-tree-set-1-insert/),[Splay Tree | Set 2 (Insert)](http://www.geeksforgeeks.org/splay-tree-set-2-insert-delete/)  
***B Tree:*** [B-Tree | Set 1 (Introduction)](http://www.geeksforgeeks.org/b-tree-set-1-introduction-2/), [B-Tree | Set 2 (Insert)](http://www.geeksforgeeks.org/b-tree-set-1-insert-2/), [B-Tree | Set 3 (Delete)](http://www.geeksforgeeks.org/b-tree-set-3delete/)  
***Segment Tree:*** [Segment Tree | Set 1 (Sum of given range)](http://www.geeksforgeeks.org/segment-tree-set-1-sum-of-given-range/), [Segment Tree | Set 2 (Range Minimum Query)](http://www.geeksforgeeks.org/segment-tree-set-1-range-minimum-query/)  
***Red-Black Tree:*** [Red-Black Tree Introduction](http://www.geeksforgeeks.org/red-black-tree-set-1-introduction-2/), [Red Black Tree Insertion.](http://www.geeksforgeeks.org/red-black-tree-set-2-insert/) [Red-Black Tree Deletion](http://www.geeksforgeeks.org/red-black-tree-set-3-delete-2/), [Program for Red Black Tree Insertion](http://geeksquiz.com/c-program-red-black-tree-insertion/)  
***Others:***[Ternary Search Tree](http://www.geeksforgeeks.org/ternary-search-tree/), [Interval Tree](http://www.geeksforgeeks.org/interval-tree/), [Implement LRU Cache](http://www.geeksforgeeks.org/implement-lru-cache/), [Sort numbers stored on different machines](http://www.geeksforgeeks.org/sort-numbers-stored-on-different-machines/), [Find the k most frequent words from a file](http://www.geeksforgeeks.org/find-the-k-most-frequent-words-from-a-file/), [Given a sequence of words, print all anagrams together](http://www.geeksforgeeks.org/given-a-sequence-of-words-print-all-anagrams-together-set-2/), [Tournament Tree (Winner Tree) and Binary Heap](http://www.geeksforgeeks.org/tournament-tree-and-binary-heap/), [Decision Trees – Fake (Counterfeit) Coin Puzzle (12 Coin Puzzle)](http://www.geeksforgeeks.org/decision-trees-fake-coin-puzzle/), [Spaghetti Stack](http://www.geeksforgeeks.org/g-fact-87/), [Data Structure for Dictionary and Spell Checker?](http://www.geeksforgeeks.org/data-structure-dictionary-spell-checker/), [KD Tree](http://www.geeksforgeeks.org/k-dimensional-tree/), [Binomial Heap](http://www.geeksforgeeks.org/binomial-heap-2/),

**Array:**  
[Given an array A[] and a number x, check for pair in A[] with sum as x](http://www.geeksforgeeks.org/write-a-c-program-that-given-a-set-a-of-n-numbers-and-another-number-x-determines-whether-or-not-there-exist-two-elements-in-s-whose-sum-is-exactly-x/), [Majority Element](http://www.geeksforgeeks.org/majority-element/), [Find the Number Occurring Odd Number of Times](http://www.geeksforgeeks.org/find-the-number-occurring-odd-number-of-times/), [Largest Sum Contiguous Subarray](http://www.geeksforgeeks.org/largest-sum-contiguous-subarray/), [Find the Missing Number](http://www.geeksforgeeks.org/find-the-missing-number/), [Search an element in a sorted and pivoted array](http://www.geeksforgeeks.org/search-an-element-in-a-sorted-and-pivoted-array/), [Merge an array of size n into another array of size m+n](http://www.geeksforgeeks.org/merge-one-array-of-size-n-into-another-one-of-size-mn/), [Median of two sorted arrays](http://www.geeksforgeeks.org/median-of-two-sorted-arrays/), [Write a program to reverse an array](http://www.geeksforgeeks.org/write-a-program-to-reverse-an-array/),[Program for array rotation](http://www.geeksforgeeks.org/array-rotation/), [Reversal algorithm for array rotation](http://www.geeksforgeeks.org/program-for-array-rotation-continued-reversal-algorithm/), [Block swap algorithm for array rotation](http://www.geeksforgeeks.org/block-swap-algorithm-for-array-rotation/), [Maximum sum such that no two elements are adjacent](http://www.geeksforgeeks.org/maximum-sum-such-that-no-two-elements-are-adjacent/), [Leaders in an array](http://www.geeksforgeeks.org/leaders-in-an-array/), [Sort elements by frequency | Set 1](http://www.geeksforgeeks.org/sort-elements-by-frequency/), [Count Inversions in an array](http://www.geeksforgeeks.org/counting-inversions/), [Two elements whose sum is closest to zero](http://www.geeksforgeeks.org/two-elements-whose-sum-is-closest-to-zero/), [Find the smallest and second smallest element in an array](http://www.geeksforgeeks.org/to-find-smallest-and-second-smallest-element-in-an-array/), [Check for Majority Element in a sorted array](http://www.geeksforgeeks.org/check-for-majority-element-in-a-sorted-array/), [Maximum and minimum of an array using minimum number of comparisons](http://www.geeksforgeeks.org/maximum-and-minimum-in-an-array/),[Segregate 0s and 1s in an array](http://www.geeksforgeeks.org/segregate-0s-and-1s-in-an-array-by-traversing-array-once/), [k largest(or smallest) elements in an array | added Min Heap method](http://www.geeksforgeeks.org/k-largestor-smallest-elements-in-an-array/), [Maximum difference between two elements](http://www.geeksforgeeks.org/maximum-difference-between-two-elements/), [Union and Intersection of two sorted arrays](http://www.geeksforgeeks.org/union-and-intersection-of-two-sorted-arrays-2/),[Floor and Ceiling in a sorted array](http://www.geeksforgeeks.org/search-floor-and-ceil-in-a-sorted-array/), [A Product Array Puzzle](http://www.geeksforgeeks.org/a-product-array-puzzle/), [Segregate Even and Odd numbers](http://www.geeksforgeeks.org/segregate-even-and-odd-numbers/),[Find the two repeating elements in a given array](http://www.geeksforgeeks.org/find-the-two-repeating-elements-in-a-given-array/), [Sort an array of 0s, 1s and 2s](http://www.geeksforgeeks.org/sort-an-array-of-0s-1s-and-2s/), [Find the Minimum length Unsorted Subarray, sorting which makes the complete array sorted](http://www.geeksforgeeks.org/minimum-length-unsorted-subarray-sorting-which-makes-the-complete-array-sorted/), [Find duplicates in O(n) time and O(1) extra space](http://www.geeksforgeeks.org/find-duplicates-in-on-time-and-constant-extra-space/), [Equilibrium index of an array](http://www.geeksforgeeks.org/equilibrium-index-of-an-array/), [Linked List vs Array](http://www.geeksforgeeks.org/linked-list-vs-array/),[Which sorting algorithm makes minimum number of memory writes?](http://www.geeksforgeeks.org/which-sorting-algorithm-makes-minimum-number-of-writes/), [Turn an image by 90 degree](http://www.geeksforgeeks.org/turn-an-image-by-90-degree/), [Next Greater Element](http://www.geeksforgeeks.org/next-greater-element/), [Check if array elements are consecutive | Added Method 3](http://www.geeksforgeeks.org/check-if-array-elements-are-consecutive/), [Find the smallest missing number](http://www.geeksforgeeks.org/find-the-first-missing-number/), [Count the number of occurrences in a sorted array](http://www.geeksforgeeks.org/count-number-of-occurrences-in-a-sorted-array/), [Interpolation search vs Binary search](http://www.geeksforgeeks.org/g-fact-84/), [Given an array arr[], find the maximum j – i such that arr[j] > arr[i]](http://www.geeksforgeeks.org/given-an-array-arr-find-the-maximum-j-i-such-that-arrj-arri/),[Maximum of all subarrays of size k (Added a O(n) method)](http://www.geeksforgeeks.org/maximum-of-all-subarrays-of-size-k/), [Find whether an array is subset of another array | Added Method 3](http://www.geeksforgeeks.org/find-whether-an-array-is-subset-of-another-array-set-1/), [Find the minimum distance between two numbers](http://www.geeksforgeeks.org/find-the-minimum-distance-between-two-numbers/), [Find the repeating and the missing | Added 3 new methods](http://www.geeksforgeeks.org/find-a-repeating-and-a-missing-number/), [Median in a stream of integers (running integers)](http://www.geeksforgeeks.org/median-of-stream-of-integers-running-integers/), [Find a Fixed Point in a given array](http://www.geeksforgeeks.org/find-a-fixed-point-in-a-given-array/), [Maximum Length Bitonic Subarray](http://www.geeksforgeeks.org/maximum-length-bitonic-subarray/), [Find the maximum element in an array which is first increasing and then decreasing](http://www.geeksforgeeks.org/find-the-maximum-element-in-an-array-which-is-first-increasing-and-then-decreasing/), [Count smaller elements on right side](http://www.geeksforgeeks.org/count-smaller-elements-on-right-side/), [Minimum number of jumps to reach end](http://www.geeksforgeeks.org/minimum-number-of-jumps-to-reach-end-of-a-given-array/), [Implement two stacks in an array](http://www.geeksforgeeks.org/implement-two-stacks-in-an-array/), [Find subarray with given sum](http://www.geeksforgeeks.org/find-subarray-with-given-sum/), [Dynamic Programming | Set 14 (Maximum Sum Increasing Subsequence)](http://www.geeksforgeeks.org/dynamic-programming-set-14-maximum-sum-increasing-subsequence/), [Longest Monotonically Increasing Subsequence Size (N log N)](http://www.geeksforgeeks.org/longest-monotonically-increasing-subsequence-size-n-log-n/), [Find a triplet that sum to a given value](http://www.geeksforgeeks.org/find-a-triplet-that-sum-to-a-given-value/), [Find the smallest positive number missing from an unsorted array](http://www.geeksforgeeks.org/find-the-smallest-positive-number-missing-from-an-unsorted-array/), [Find the two numbers with odd occurrences in an unsorted array](http://www.geeksforgeeks.org/find-the-two-numbers-with-odd-occurences-in-an-unsorted-array/), [The Celebrity Problem](http://www.geeksforgeeks.org/the-celebrity-problem/), [Dynamic Programming | Set 15 (Longest Bitonic Subsequence)](http://www.geeksforgeeks.org/dynamic-programming-set-15-longest-bitonic-subsequence/), [Find a sorted subsequence of size 3 in linear time](http://www.geeksforgeeks.org/find-a-sorted-subsequence-of-size-3-in-linear-time/), [Largest subarray with equal number of 0s and 1s](http://www.geeksforgeeks.org/largest-subarray-with-equal-number-of-0s-and-1s/), [Dynamic Programming | Set 18 (Partition problem)](http://www.geeksforgeeks.org/dynamic-programming-set-18-partition-problem/), [Maximum Product Subarray](http://www.geeksforgeeks.org/maximum-product-subarray/), [Find a pair with the given difference](http://www.geeksforgeeks.org/find-a-pair-with-the-given-difference/), [Replace every element with the next greatest](http://www.geeksforgeeks.org/replace-every-element-with-the-greatest-on-right-side/), [Dynamic Programming | Set 20 (Maximum Length Chain of Pairs)](http://www.geeksforgeeks.org/dynamic-programming-set-20-maximum-length-chain-of-pairs/), [Find four elements that sum to a given value | Set 1 (n^3 solution)](http://www.geeksforgeeks.org/find-four-numbers-with-sum-equal-to-given-sum/), [Find four elements that sum to a given value | Set 2 ( O(n^2Logn) Solution)](http://www.geeksforgeeks.org/find-four-elements-that-sum-to-a-given-value-set-2/), [Sort a nearly sorted (or K sorted) array](http://www.geeksforgeeks.org/nearly-sorted-algorithm/),[Maximum circular subarray sum](http://www.geeksforgeeks.org/maximum-contiguous-circular-sum/), [Find the row with maximum number of 1s](http://www.geeksforgeeks.org/find-the-row-with-maximum-number-1s/), [Median of two sorted arrays of different sizes](http://www.geeksforgeeks.org/median-of-two-sorted-arrays-of-different-sizes/), [Shuffle a given array](http://www.geeksforgeeks.org/shuffle-a-given-array/), [Count the number of possible triangles](http://www.geeksforgeeks.org/find-number-of-triangles-possible/), [Iterative Quick Sort](http://www.geeksforgeeks.org/iterative-quick-sort/), [Find the number of islands](http://www.geeksforgeeks.org/find-number-of-islands/), [Construction of Longest Monotonically Increasing Subsequence (N log N)](http://www.geeksforgeeks.org/construction-of-longest-monotonically-increasing-subsequence-n-log-n/), [Find the first circular tour that visits all petrol pumps](http://www.geeksforgeeks.org/find-a-tour-that-visits-all-stations/), [Arrange given numbers to form the biggest number](http://www.geeksforgeeks.org/given-an-array-of-numbers-arrange-the-numbers-to-form-the-biggest-number/), [Pancake sorting](http://www.geeksforgeeks.org/pancake-sorting/), [A Pancake Sorting Problem](http://www.geeksforgeeks.org/a-pancake-sorting-question/), [Tug of War](http://www.geeksforgeeks.org/tug-of-war/),[Divide and Conquer | Set 3 (Maximum Subarray Sum)](http://www.geeksforgeeks.org/divide-and-conquer-maximum-sum-subarray/), [Counting Sort](http://www.geeksforgeeks.org/counting-sort/), [Merge Overlapping Intervals](http://www.geeksforgeeks.org/merging-intervals/), [Find the maximum repeating number in O(n) time and O(1) extra space](http://www.geeksforgeeks.org/find-the-maximum-repeating-number-in-ok-time/), [Stock Buy Sell to Maximize Profit](http://www.geeksforgeeks.org/stock-buy-sell/), [Rearrange positive and negative numbers in O(n) time and O(1) extra space](http://www.geeksforgeeks.org/rearrange-positive-and-negative-numbers-publish/),[Sort elements by frequency | Set 2](http://www.geeksforgeeks.org/sort-elements-by-frequency-set-2/), [Find a peak element](http://www.geeksforgeeks.org/find-a-peak-in-a-given-array/), [Print all possible combinations of r elements in a given array of size n](http://www.geeksforgeeks.org/print-all-possible-combinations-of-r-elements-in-a-given-array-of-size-n/), [Given an array of of size n and a number k, find all elements that appear more than n/k times](http://www.geeksforgeeks.org/given-an-array-of-of-size-n-finds-all-the-elements-that-appear-more-than-nk-times/), [Find the point where a monotonically increasing function becomes positive first time](http://www.geeksforgeeks.org/find-the-point-where-a-function-becomes-negative/), [Find the Increasing subsequence of length three with maximum product](http://www.geeksforgeeks.org/increasing-subsequence-of-length-three-with-maximum-product/), [Find the minimum element in a sorted and rotated array](http://www.geeksforgeeks.org/find-minimum-element-in-a-sorted-and-rotated-array/), [Stable Marriage Problem](http://www.geeksforgeeks.org/stable-marriage-problem/),[Merge k sorted arrays | Set 1](http://www.geeksforgeeks.org/merge-k-sorted-arrays/), [Radix Sort](http://www.geeksforgeeks.org/radix-sort/), [Move all zeroes to end of array](http://www.geeksforgeeks.org/move-zeroes-end-array/), [Find number of pairs such that x^y > y^x](http://www.geeksforgeeks.org/find-number-pairs-xy-yx/), [Count all distinct pairs with difference equal to k](http://www.geeksforgeeks.org/count-pairs-difference-equal-k/), [Find if there is a subarray with 0 sum](http://www.geeksforgeeks.org/find-if-there-is-a-subarray-with-0-sum/),[Smallest subarray with sum greater than a given value](http://www.geeksforgeeks.org/minimum-length-subarray-sum-greater-given-value/), [Sort an array according to the order defined by another array](http://www.geeksforgeeks.org/sort-array-according-order-defined-another-array/), [Maximum Sum Path in Two Arrays](http://www.geeksforgeeks.org/maximum-sum-path-across-two-arrays/), [Quiz on Array](http://geeksquiz.com/data-structure/array/)

**Matrix:**[Search in a row wise and column wise sorted matrix](http://www.geeksforgeeks.org/search-in-row-wise-and-column-wise-sorted-matrix/), [Print a given matrix in spiral form](http://www.geeksforgeeks.org/print-a-given-matrix-in-spiral-form/),[A Boolean Matrix Question](http://www.geeksforgeeks.org/a-boolean-matrix-question/), [Print unique rows in a given boolean matrix](http://www.geeksforgeeks.org/print-unique-rows/), [Maximum size square sub-matrix with all 1s](http://www.geeksforgeeks.org/maximum-size-sub-matrix-with-all-1s-in-a-binary-matrix/), [Print unique rows in a given boolean matrix](http://www.geeksforgeeks.org/print-unique-rows/), [Inplace M x N size matrix transpose | Updated](http://www.geeksforgeeks.org/inplace-m-x-n-size-matrix-transpose/" \t "_blank), [Print Matrix Diagonally](http://www.geeksforgeeks.org/print-matrix-diagonally/), [Dynamic Programming | Set 27 (Maximum sum rectangle in a 2D matrix)](http://www.geeksforgeeks.org/dynamic-programming-set-27-max-sum-rectangle-in-a-2d-matrix/), [Strassen’s Matrix Multiplication](http://www.geeksforgeeks.org/strassens-matrix-multiplication/" \o "Permanent link to Divide and Conquer | Set 5 (Strassen’s Matrix Multiplication)" \t "_blank), [Create a matrix with alternating rectangles of O and X](http://www.geeksforgeeks.org/create-a-matrix-with-alternating-rectangles-of-0-and-x/), [Find the row with maximum number of 1s](http://www.geeksforgeeks.org/find-the-row-with-maximum-number-1s/), [Print all elements in sorted order from row and column wise sorted matrix](http://www.geeksforgeeks.org/print-elements-sorted-order-row-column-wise-sorted-matrix/)