**Stack :**

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|  | Description | Status |
|  | Implement Queue using Stacks |  |
|  | Design & Implement Special Stack DS. Added Space Optimized Version |  |
|  | Implement two stacks in an array |  |
|  | Implement Stack using Queues |  |
|  | Design a stack with operations on middle element |  |
|  | How to efficiently implement k stacks in a single array? |  |
|  | How to create mergable stack? |  |
|  | Design a stack that supports getMin() in O(1) time and O(1) extra space |  |
|  | Implement a stack using single queue |  |
|  | How to implement stack using priority queue or heap? |  |
|  | Create a customized data structure which evaluates functions in O(1) |  |
|  | Implement Stack and Queue using Deque |  |
|  | Infix to Postfix Conversion using Stack |  |
|  | Prefix to Infix Conversion |  |
|  | Prefix to Postfix Conversion |  |
|  | Postfix to Prefix Conversion |  |
|  | Postfix to Infix |  |
|  | Convert Infix To Prefix Notation |  |
|  | The Stock Span Problem |  |
|  | Check for balanced parentheses in an expression |  |
|  | Next Greater Element |  |
|  | Next Greater Frequency Element |  |
|  | Number of NGEs to the right |  |
|  | Maximum product of indexes of next greater on left and right |  |
|  | The Celebrity Problem |  |
|  | Expression Evaluation |  |
|  | Arithmetic Expression Evalution |  |
|  | Evaluation of Postfix Expression |  |
|  | Iterative Tower of Hanoi |  |
|  | Print next greater number of Q queries |  |
|  | Reverse a stack using recursion |  |
|  | Sort a stack using recursion |  |
|  | Sort a stack using a temporary stack |  |
|  | Reverse a stack without using extra space in O(n) |  |
|  | Delete middle element of a stack |  |
|  | Sorting array using Stacks |  |
|  | Delete array elements which are smaller than next or become smaller |  |
|  | Check if a queue can be sorted into another queue using a stack |  |
|  | Reverse individual words |  |
|  | Count subarrays where second highest lie before highest |  |
|  | Check if an array is stack sortable |  |
|  | Iterative Postorder Traversal | Set 1 (Using Two Stacks) |  |
|  | Iterative Postorder Traversal | Set 2 (Using One Stack) |  |
|  | Merge Overlapping Intervals |  |
|  | Largest Rectangular Area in a Histogram | Set 2 |  |
|  | Print ancestors of a given binary tree node without recursion |  |
|  | Reverse a string using stack |  |
|  | Program for Tower of Hanoi |  |
|  | Find maximum depth of nested parenthesis in a string |  |
|  | Find maximum of minimum for every window size in a given array |  |
|  | Length of the longest valid substring |  |
|  | Iterative Depth First Traversal of Graph |  |
|  | Minimum number of bracket reversals needed to make an expression balanced |  |
|  | Expression contains redundant bracket or not |  |
|  | Identify and mark unmatched parenthesis in an expression |  |
|  | https://www.geeksforgeeks.org/check-two-expressions-brackets/ |  |
|  | Find index of closing bracket for a given opening bracket in an expression |  |
|  | Check for balanced parentheses in an expression |  |
|  | Balanced expression with replacement |  |
|  | Check if a given array can represent Preorder Traversal of Binary Search Tree |  |
|  | Form minimum number from given sequence |  |
|  | Find if an expression has duplicate parenthesis or not |  |
|  | Find maximum difference between nearest left and right smaller elements |  |
|  | Find next Smaller of next Greater in an array |  |
|  | Find maximum sum possible equal sum of three stacks |  |
|  | Count natural numbers whose all permutation are greater than that number |  |
|  | Delete consecutive same words in a sequence |  |
|  | Decode a string recursively encoded as count followed by substring |  |
|  | Bubble sort using two Stacks |  |
|  | Pattern Occurrences : Stack Implementation Java |  |
|  | Iterative method to find ancestors of a given binary tree |  |
|  | Stack Permutations (Check if an array is stack permutation of other) |  |
|  | Tracking current Maximum Element in a Stack |  |
|  | Check mirror in n-ary tree |  |
|  | Reverse a number using stack |  |
|  | Reversing the first K elements of a Queue |  |
|  | Reversing a Queue |  |
|  | Check if stack elements are pairwise consecutive |  |
|  | Spaghetti Stack |  |
|  | Interleave the first half of the queue with second half |  |
|  | Remove brackets from an algebraic string containing + and – operators |  |
|  | Growable array based stack |  |
|  | Range Queries for Longest Correct Bracket Subsequence |  |

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