450 DSA Cracker

Topics (/) / Stacks & Queue

Serial No.	Questions
1	Implement Stack from Scratch (https://www.tutorialspoint.com/javaexamples/data_stack.htm)
2	Implement Queue from Scratch (https://www.geeksforgeeks.org/queue-set-1introduction-and-array-implementation/)
3	Implement 2 stack in an array (https://practice.geeksforgeeks.org/problems/implement-two-stacks-in-an-array/1)
4	find the middle element of a stack (https://www.geeksforgeeks.org/design-a-stack-with-find-middle-operation/)
5	Implement "N" stacks in an Array (https://www.geeksforgeeks.org/efficiently-implement-k-stacks-single-array/)
6	Check the expression has valid or Balanced parenthesis or not. (https://practice.geeksforgeeks.org/problems/parenthesis-checker/0)
7	Reverse a String using Stack (https://practice.geeksforgeeks.org/problems/reverse-a-string-using-stack/1)
8	Design a Stack that supports getMin() in O(1) time and O(1) extra space. (https://practice.geeksforgeeks.org/problems/special-stack/1)
9	Find the next Greater element (https://practice.geeksforgeeks.org/problems/next-larger-element/0)
10	The celebrity Problem (https://practice.geeksforgeeks.org/problems/the-celebrity-problem/1)
11	Arithmetic Expression evaluation (https://www.geeksforgeeks.org/arithmetic-expression-evalution/)
12	Evaluation of Postfix expression (https://practice.geeksforgeeks.org/problems/evaluation-of-postfix-expression/0)

Serial No.	Questions
13	Implement a method to insert an element at its bottom without using any other data structure. (https://stackoverflow.com/questions/45130465/inserting-at-the-end-of-stack)
14	Reverse a stack using recursion (https://www.geeksforgeeks.org/reverse-a-stack-using-recursion/)
15	Sort a Stack using recursion (https://practice.geeksforgeeks.org/problems/sort-a-stack/1)
16	Merge Overlapping Intervals (https://practice.geeksforgeeks.org/problems/overlapping-intervals/0)
17	Largest rectangular Area in Histogram (https://practice.geeksforgeeks.org/problems/maximum-rectangular-area-in-a-histogram/0)
18	Length of the Longest Valid Substring (https://practice.geeksforgeeks.org/problems/valid-substring0624/1)
19	Expression contains redundant bracket or not (https://www.geeksforgeeks.org/expression-contains-redundant-bracket-not/)
20	Implement Stack using Queue (https://practice.geeksforgeeks.org/problems/stack-using-two-queues/1)
21	Implement Stack using Deque (https://www.geeksforgeeks.org/implement-stack-queue-using-deque/)
22	Stack Permutations (Check if an array is stack permutation of other) (https://www.geeksforgeeks.org/stack-permutations-check-if-an-array-is-stack-permutation-of-other/)
23	Implement Queue using Stack (https://practice.geeksforgeeks.org/problems/queue-using-two-stacks/1)
24	Implement "n" queue in an array (https://www.geeksforgeeks.org/efficiently-implement-k-queues-single-array/)
25	Implement a Circular queue (https://www.geeksforgeeks.org/circular-queue-set-1-introduction-array-implementation/)
26	LRU Cache Implementationa (https://practice.geeksforgeeks.org/problems/lru-cache/1)
27	Reverse a Queue using recursion (https://practice.geeksforgeeks.org/problems/queue-reversal/1)

Serial No.	Questions
28	Reverse the first “K” elements of a queue (https://practice.geeksforgeeks.org/problems/reverse-first-k-elements-of-queue/1)
29	Interleave the first half of the queue with second half (https://www.geeksforgeeks.org/interleave-first-half-queue-second-half/)
30	Find the first circular tour that visits all Petrol Pumps (https://practice.geeksforgeeks.org/problems/circular-tour/1)
31	Minimum time required to rot all oranges (https://practice.geeksforgeeks.org/problems/rotten-oranges/0)
32	Distance of nearest cell having 1 in a binary matrix (https://practice.geeksforgeeks.org/problems/distance-of-nearest-cell-having-1/0)
33	First negative integer in every window of size “k” (https://practice.geeksforgeeks.org/problems/first-negative-integer-in-every-window-of-size-k/0)
34	Check if all levels of two trees are anagrams or not. (https://www.geeksforgeeks.org/check-if-all-levels-of-two-trees-are-anagrams-or-not/)
35	Sum of minimum and maximum elements of all subarrays of size “k”. (https://www.geeksforgeeks.org/sum-minimum-maximum-elements-subarrays-size-k/)
36	Minimum sum of squares of character counts in a given string after removing “k” characters. (https://practice.geeksforgeeks.org/problems/game-with-string/0)
37	Queue based approach or first non-repeating character in a stream. (https://practice.geeksforgeeks.org/problems/first-non-repeating-character-in-a-stream/0)
38	Next Smaller Element (https://www.geeksforgeeks.org/next-smaller-element/)