Week 3 and 4: Stacks/ Queues/ STL/ Number Theory

Resource
1. https://cp-algorithms.com/
2. https://www.youtube.com/playlist?list=PL_z_8CaSLPWdeOezg68SKkeLN4-T_jNHd
3. https://www.youtube.com/playlist?list=PL_z_8CaSLPWdtY9W22VjnPxG30CXNZpI9
4. https://www.geeksforgeeks.org/stack-data-structure-introduction-program/
5. https://www.geeksforgeeks.org/stack-in-cpp-stl/
6. https://www.geeksforgeeks.org/queue-set-1introduction-and-array-implementation/
7. https://www.geeksforgeeks.org/priority-queue-set-1-introduction/
8. https://www.geeksforgeeks.org/deque-set-1-introduction-applications/
9. https://www.geeksforgeeks.org/queue-interface-java/
10. https://www.geeksforgeeks.org/circular-queue-set-1-introduction-array-implementation/
11. https://practice.geeksforgeeks.org/problems/game-with-string4100/1

Questions
1. Design stack - https://leetcode.com/problems/min-stack/
2. Valid Parentheses - https://leetcode.com/problems/valid-parentheses/
3. Sort a stack - https://practice.geeksforgeeks.org/problems/sort-a-stack/1
4. Stack using Queue - https://leetcode.com/problems/implement-stack-using-queues/
5. Next Smaller Element - https://leetcode.com/problems/final-prices-with-a-special-discount-in-a-shop/
6. https://practice.geeksforgeeks.org/problems/get-minimum-element-from-stack/1
7. First non-repeating character in stream - https://practice.geeksforgeeks.org/problems/first-non-repeating-character-in-a-stream1216/1
8. Queue using stacks - https://leetcode.com/problems/implement-queue-using-stacks/
9. Implement Queue - https://practice.geeksforgeeks.org/problems/implement-queue-using-array/1
10. Reverse a queue - https://practice.geeksforgeeks.org/problems/queue-reversal/1
11. **https://practice.geeksforgeeks.org/problems/game-with-string4100/1**

Number Theory-
1. **http://codeforces.com/problemset/problem/230/B**
2. **http://codeforces.com/problemset/problem/472/A**
3. **https://codeforces.com/problemset/problem/313/A**
4. **https://codeforces.com/problemset/problem/749/A**
5. **http://codeforces.com/problemset/problem/122/A**
6. **https://www.codechef.com/problems/CRDGAME3**
7. **https://codeforces.com/contest/1343/problem/D**