

Stack practice problems:

1. Write a program to reverse a stack
2. Write a program to show only the even/odd numbers from a Stack
3. Write a program to find out number of duplicates in a stack
4. Write a program to sort a Stack.

Advanced (Use Java):

5. Write a program that will evaluate postfix expression using stack
<https://www.geeksforgeeks.org/stack-set-4-evaluation-postfix-expression/>

<i>Sample Inputs</i>	<i>Sample Outputs</i>
56+82/*3+	Result: 47
23+6*	Result: 30

6. Write a program that will check for brackets in a mathematical expression whether it is balanced or not.
<https://www.geeksforgeeks.org/check-for-balanced-parentheses-in-an-expression/>

<i>Sample Inputs</i>	<i>Sample Outputs</i>
{{{}}([)]}}	Closing bracket overflow
[{{{({})}([)]}}	Balanced
[{{{({})}([)]}}	Unmatched
((())){{{[]}{[]}}}	Opening bracket overflow

Queue practice problems:

1. Write a program to reverse a queue
2. Write a program to show the positive/negative numbers from a queue
3. Write a program to find out number of duplicates in a queue
4. Write a program to sort a queue.

Mixed:

1. Write a program to find out the common elements in two individual stacks.
2. Write a program to find out the common elements in two individual queues.
3. Write a program to find out the common elements between a stack and a queue.

Advanced:

4. Implement queue using stack.
<https://www.geeksforgeeks.org/queue-using-stacks/>
5. Implement stack using queue
<https://www.geeksforgeeks.org/implement-stack-using-queue/>