

Stacks: LIFO (last in first out)

Queues: FIFO (first in first out)

Problem: Given string with only parentheses, determine if it's valid (valid if each parentheses has open and closing)

“{([)]}” -> True (valid bc every left bracket has corresponding right bracket)

Intro:

- Verify Constraints
- Create Testcases

Optimal:

- Brainstorming & Pattern Observations
- Pseudocode
- Write code
- Run through testcases
- Analyze time and space complexity

Time: $O(n)$

Space: $O(n)$