## 预习题目

* [https://leetcode-cn.com/problems/valid-parentheses/](https://leetcode-cn.com/problems/valid-parentheses/" \t "https://u.geekbang.org/lesson/_blank)
* [https://leetcode-cn.com/problems/min-stack/](https://leetcode-cn.com/problems/min-stack/" \t "https://u.geekbang.org/lesson/_blank)

## 实战题目

* [https://leetcode-cn.com/problems/largest-rectangle-in-histogram](https://leetcode-cn.com/problems/largest-rectangle-in-histogram" \t "https://u.geekbang.org/lesson/_blank)
* [https://leetcode-cn.com/problems/sliding-window-maximum](https://leetcode-cn.com/problems/sliding-window-maximum" \t "https://u.geekbang.org/lesson/_blank)

## 课后作业

* 用 add first 或 add last 这套新的 API 改写 Deque 的代码
* 分析 Queue 和 Priority Queue 的源码
* [https://leetcode.com/problems/design-circular-deque](https://leetcode.com/problems/design-circular-deque" \t "https://u.geekbang.org/lesson/_blank)
* [https://leetcode.com/problems/trapping-rain-water/](https://leetcode.com/problems/trapping-rain-water/" \t "https://u.geekbang.org/lesson/_blank)

说明：改写代码和分析源码这两项作业，同学们需要在第 1 周的学习总结中完成。如果不熟悉 Java 语言，这两项作业可选做。