

Smart Coding & Interview Series

Top-20 Basic Program (Stack Applications)

First, understand the solution building strategies and coding for the problems in LIVE/VIDEO session and then you apply those strategies discussed in LIVE/VIDEO session to solve the following problems. Use your favourite language(C/C++/Java/C#/Python/Scala) for coding.

Group1:

Backspace: <https://open.kattis.com/problems/backspace>

Decode String: <https://leetcode.com/problems/decode-string/description/>

Valid Parentheses: <https://leetcode.com/problems/valid-parentheses/description/>

Tag Validator: <https://leetcode.com/problems/tag-validator/description/>

Longest Valid Parentheses: <https://leetcode.com/problems/longest-valid-parentheses/>

Group2:

InfixToPostfix:

https://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&page=show_problem&problem=668

Evaluate Postfix Expression: <https://leetcode.com/problems/evaluate-reverse-polish-notation/description/>

Basic Calculator: <https://leetcode.com/problems/basic-calculator/description/>

Basic Calculator-III: <https://leetcode.com/problems/basic-calculator-iii>

Group3:

Daily Temperatures: <https://leetcode.com/problems/daily-temperatures/description/>

Next Greater Element(Circular): <https://www.lintcode.com/problem/next-greater-element-ii/description>

Next Greater Element(Across Array): <https://www.lintcode.com/en/old/problem/next-greater-element-i/>

Stack Sorting: Sort a stack in ascending order (with biggest terms on top). You may use at most one additional stack to hold items, but you may not copy the elements into any other data structure (e.g. array).

Group4:

Flatten Nested List: <https://leetcode.com/problems/flatten-nested-list-iterator/description/>

Rails: <http://poj.org/problem?id=1363>