# Top-20 Training Program
## (String Problems)

**Apply the solution building strategies discussed in class to solve following problems.**

### Group1: Edit distance variations

Edit Distance: https://leetcode.com/problems/edit-distance/description/

Minimum ASCII Delete Sum: https://leetcode.com/problems/minimum-ascii-delete-sum-for-two-strings/description/

Delete Operations for Two Strings: https://leetcode.com/problems/delete-operation-for-two-strings/description/

### Group2: Subsequence variations

Longest Common Subsequence: http://www.lintcode.com/en/problem/longest-common-subsequence/

Longest Common Subsequence-II: http://poj.org/problem?id=3450

Longest Palindromic Subsequence: https://leetcode.com/problems/longest-palindromic-subsequence/description/

Number of Palindromic Subsequences: https://www.codechef.com/problems/CB03 or https://leetcode.com/problems/count-different-palindromic-subsequences/description/

Number of Distinct Subsequences of T in S: https://leetcode.com/problems/distinct-subsequences/description/

### Group3: Substring variations/Suffix Array

Longest Common Substring: http://www.spoj.com/problems/LCS/

Longest Common Subarray: https://leetcode.com/problems/maximum-length-of-repeated-subarray/description/

Longest Palindromic Substring:
https://leetcode.com/problems/longest-palindromic-substring/description/

Number of Palindromic Substrings: https://www.codechef.com/problems/BIGOF06 or

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https://leetcode.com/problems/palindromic-substrings/description/

## Group4: Suffix Array/Tree
Suffix Array: http://www.spoj.com/problems/SARRAY/

Number of Substrings: http://www.spoj.com/problems/NSUBSTR/

Distinct Substrings: http://www.spoj.com/problems/DISUBSTR/

String Cleaning: http://www.spoj.com/problems/ADACLEAN/

Ada and Substring: http://www.spoj.com/problems/ADASTRNG/

## Group5: String partitioning variations
String Interleaving: https://leetcode.com/problems/interleaving-string/description/

Palindromic Partitioning: https://leetcode.com/problems/palindrome-partitioning-ii/description/