

## Top-20 Training Program (Set & Map)

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

### Group1: Basic Problems

Keyboard Row: <https://leetcode.com/problems/keyboard-row/description/>

Isomorphic Strings: <https://leetcode.com/problems/isomorphic-strings/description/>

Adding Words: <https://open.kattis.com/problems/addingwords>

Palindrome Permutation: <https://www.hackerearth.com/problem/algorithm/palindrome-check-2-1/>

Unique Morse Codewords: <https://leetcode.com/problems/unique-morse-code-words/description/>

### Group2: Intersection of Arrays

Intersection of Arrays-I: <https://leetcode.com/problems/intersection-of-two-arrays/description/>

Intersection of Arrays-II: <https://leetcode.com/problems/intersection-of-two-arrays-ii/description/>

### Group3: Anagram check/discovery

Valid Anagram: <https://leetcode.com/problems/valid-anagram/description/>

Group Anagrams: <https://leetcode.com/problems/group-anagrams/description/>

Find All Anagrams: <https://leetcode.com/problems/find-all-anagrams-in-a-string/description/>

Anagram Mappings: <https://leetcode.com/problems/find-anagram-mappings/>

### Group4: Missing/Repeating character or strings

First Non-repeating character: <https://leetcode.com/problems/first-unique-character-in-a-string/description/>

Missing String: <http://www.lintcode.com/en/problem/missing-string/>

Repeated DNA sequences: <https://leetcode.com/problems/repeated-dna-sequences/description/>

### Group5: 2-SUM & 3-SUM Variations

TwoSum-I: <https://leetcode.com/problems/two-sum/description/>

TwoSum-II: <https://leetcode.com/problems/two-sum-ii-input-array-is-sorted/description/>

ThreeSum: <https://leetcode.com/problems/3sum/description/>

ThreeSum Closest: <https://leetcode.com/problems/3sum-closest/description/>

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### Group6: Competition Problems

**Deduplicating Files:** <https://open.kattis.com/problems/deduplicatingfiles>

**CD:** <https://open.kattis.com/problems/cd>

**Haypoints:** <https://open.kattis.com/problems/haypoints>

**HardWood Species:**

[https://uva.onlinejudge.org/index.php?option=onlinejudge&page=show\\_problem&problem=1167](https://uva.onlinejudge.org/index.php?option=onlinejudge&page=show_problem&problem=1167)

**Bankrupt Baker:**

[https://uva.onlinejudge.org/index.php?option=onlinejudge&page=show\\_problem&problem=2283](https://uva.onlinejudge.org/index.php?option=onlinejudge&page=show_problem&problem=2283)

**Opensource:**

[https://uva.onlinejudge.org/index.php?option=onlinejudge&page=show\\_problem&problem=2180](https://uva.onlinejudge.org/index.php?option=onlinejudge&page=show_problem&problem=2180)

**Hoax or what:**

[https://uva.onlinejudge.org/index.php?option=com\\_onlinejudge&Itemid=8&page=show\\_problem&problem=2077](https://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&page=show_problem&problem=2077)