Top-20 Training Program
(SortedSet, SortedMap, Priority Queue)

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

Group1: Basic problems
Sort Characters by Frequency: https://leetcode.com/problems/sort-characters-by-frequency/description/
K-Empty Slots: https://leetcode.com/problems/k-empty-slots/
Contains Duplicate-III: https://leetcode.com/problems/contains-duplicate-iii/description/

Group2: Interval based problems
MyCalender-I: https://leetcode.com/problems/my-calendar-i/description/
MyCalender-II: https://leetcode.com/problems/my-calendar-ii/description/
Find Right Interval: https://leetcode.com/problems/find-right-interval/description/
Range Module: https://leetcode.com/problems/range-module/description/
DataStream as Disjoint-intervals: https://leetcode.com/problems/data-stream-as-disjoint-intervals/description/

Group3: PriorityQueue based problems
Merge k-sorted lists: https://leetcode.com/problems/merge-k-sorted-lists/description/
Kth Largest Element: https://leetcode.com/problems/kth-largest-element-in-an-array/description/
Top-k Frequent Elements: https://leetcode.com/problems/top-k-frequent-elements/description/
K-pairs with Smallest Sums: https://leetcode.com/problems/find-k-pairs-with-smallest-sums/description/
Kth Smallest Element in Sortedmatrix: https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/description/
Sliding Window Maximum: https://leetcode.com/problems/sliding-window-maximum/description/
Find Median in DataStream: https://leetcode.com/problems/find-median-from-data-stream/description/
ArrayToHeap: Find an efficient algorithm to conert an array to min heap in linear time.
MergeHeaps: Find an efficient algorithm to merge two minheaps into single heap.

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Group4: Competition Problems
Password Search:
https://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&page=show_problem&problem=843

Running Median: http://poj.org/problem?id=3784
Average: http://poj.org/problem?id=2833
Sliding window: http://poj.org/problem?id=2823