

Smart Coding & Interview Series Top-20 Basic Program (Heap & Priority Queue 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.

Queue & Stack using PriorityQueue: Implement Stack & Queue Data Structures using Priority Queue API

K-pair with smallest sums: https://leetcode.com/problems/find-k-pairs-with-smallest-sums/description/

Array to Heap: Find an efficient algorithm to covert an array to min heap in linear time.

Merge Heaps: Find an efficient algorithm to merge two minheaps into single heap.

Find Median in DataStream: https://leetcode.com/problems/find-median-from-data-stream/description/

Running Median: http://poj.org/problem?id=3784

Password Search:

https://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&page=show_proble m&problem=843

Average: http://poj.org/problem?id=2833

Sliding window: http://poj.org/problem?id=2823