

Heap Leetcode Practice Set

◆ Easy

1. **703. Kth Largest Element in a Stream**
→ Use a Min Heap to maintain the K largest elements.
2. **1046. Last Stone Weight**
→ Use a Max Heap to smash the heaviest stones.
3. **215. Kth Largest Element in an Array** (sometimes considered Medium, but very standard)
→ Classic heap problem.
4. **506. Relative Ranks**
→ Use a Max Heap to assign medal positions.

◆ Medium

5. **347. Top K Frequent Elements**
→ Use Min Heap or Bucket Sort.
6. **373. Find K Pairs with Smallest Sums**
→ Min Heap with k-way merge approach.
7. **378. Kth Smallest Element in a Sorted Matrix**
→ Min Heap solution (or Binary Search).
8. **658. Find K Closest Elements**
→ Min Heap or Binary Search.
9. **973. K Closest Points to Origin**
→ Use Max Heap to store K closest points.

10. 1167. Minimum Cost to Connect Sticks

→ Use Min Heap (similar to rope connection problem).

◆ **Hard**

11. 295. Find Median from Data Stream

→ Two Heaps (Max Heap + Min Heap).

12. 632. Smallest Range Covering Elements from K Lists

→ Min Heap-based approach.

13. 857. Minimum Cost to Hire K Workers

→ Min Heap with greedy ratio strategy.

14. 786. K-th Smallest Prime Fraction

→ Min Heap with fractions.

15. 239. Sliding Window Maximum (Heap or Deque)

→ Max Heap solution (but optimized with deque).

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