

Heap based top 10 problem commonly asked in interview questions.
give input and output of the problem.
list 5 easy, 3 medium, 2 hard difficulty problems.

Sure, here's a list of common heap-based problems categorized by difficulty:

Easy

1. Find Kth Largest Element in an Array

- Input: `nums = [3,2,1,5,6,4]`, `k = 2`
- Output: `5`

2. Merge K Sorted Lists

- Input: `lists = [[1,4,5],[1,3,4],[2,6]]`
- Output: `[1,1,2,3,4,4,5,6]`

3. Top K Frequent Elements

- Input: `nums = [1,1,1,2,2,3]`, `k = 2`
- Output: `[1,2]`

4. Find Median from Data Stream

- Input: `["MedianFinder", "addNum", "findMedian", "addNum", "findMedian"]`,
`[[], [1], [], [2], []]`
- Output: `[null, null, 1.0, null, 1.5]`

5. K Closest Points to Origin

- Input: `points = [[1,3],[-2,2]]`, `K = 1`
- Output: `[[-2,2]]`

Medium

1. Rearrange String k Distance Apart

- Input: `s = "aabbcc", k = 3`
- Output: `"abcabc"`

2. Top K Frequent Words

- Input: `words = ["i","love","leetcode","i","love","coding"], k = 2`
- Output: `["i","love"]`

3. The Skyline Problem

- Input: `buildings = [[2,9,10],[3,7,15],[5,12,12],[15,20,10],[19,24,8]]`
- Output: `[[2,10],[3,15],[7,12],[12,0],[15,10],[20,8],[24,0]]`

Hard

1. Median of Two Sorted Arrays

- Input: `nums1 = [1,3]`, `nums2 = [2]`
- Output: `2.0`

2. Find K Pairs with Smallest Sums

- Input: `nums1 = [1,7,11]`, `nums2 = [2,4,6]`, `k = 3`
- Output: `[[1,2],[1,4],[1,6]]`


These problems span a range of difficulty levels and utilize heaps for efficient solutions.


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