Problem Solving: Heaps

Relevel by Unacademy



Generic Class for Heap

Find kth smallest element in an array

Find kth smallest element in an array

Sort array by frequency

Combine k sorted string

Find median in real time data

Job Schedular

Rearrange String

Practice Problems

1) You have an array. And a frame of length x. You have to slide that frame on the array and find the median in each frame.

I/P: nums =
$$[1,3,-1,-3,5,3,6,7]$$
, x = 3

O/P: [1.00000,-1.00000,-1.00000,3.00000,5.00000,6.00000]

Explanation:



1) You have give a matrix of n*n and it is sorted row wise and column wise. You have to find the kth smallest element in the matrix.

Example:

$$I/P:[[1,5,9],[10,11,13],[12,13,15]], k = 8$$

O/P: 13

Explanation:[1,5,9,10,11,12,13,13,15], and the 8th smallest number is 13



Thank you

