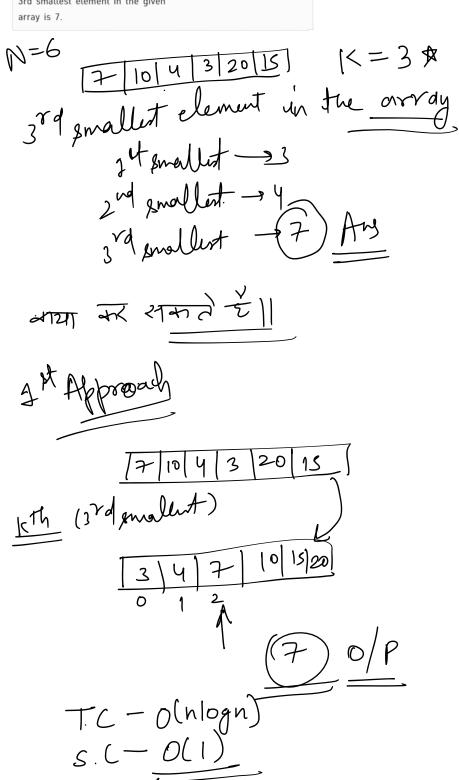
Given an array arr[] and an integer K where K is smaller than size of array, the task is to find the Kth smallest element in the given array. It is given that all array elements are distinct.





s.c-O(1)
Sosting > O(nlogn).

And sort the 18th smallest clement Find the 1913

HEAP

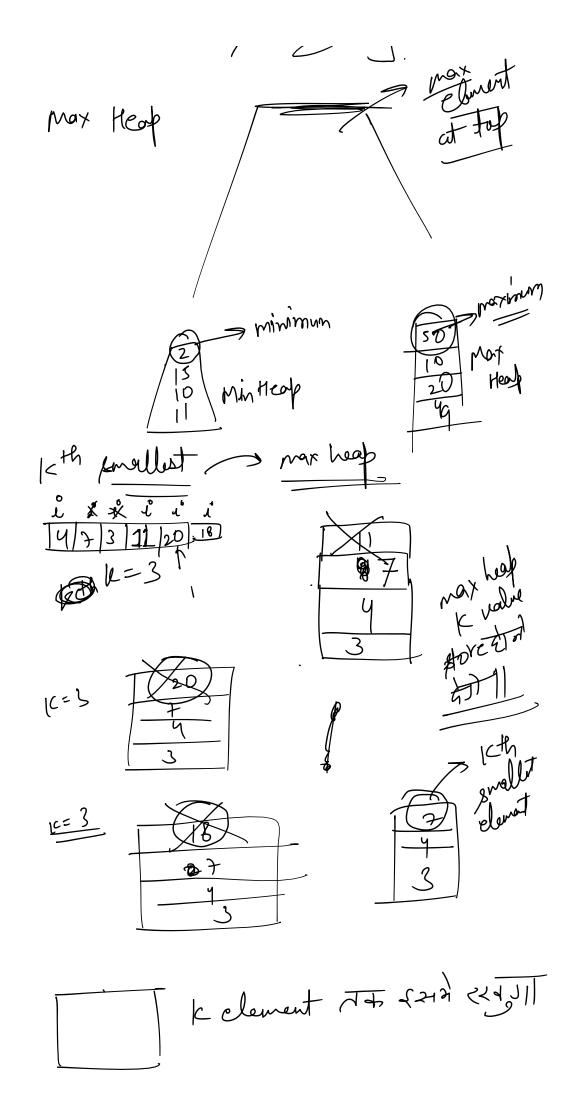
kth largest 2nd largest 11/5/8/2/9/8

Min Heap (th smallest

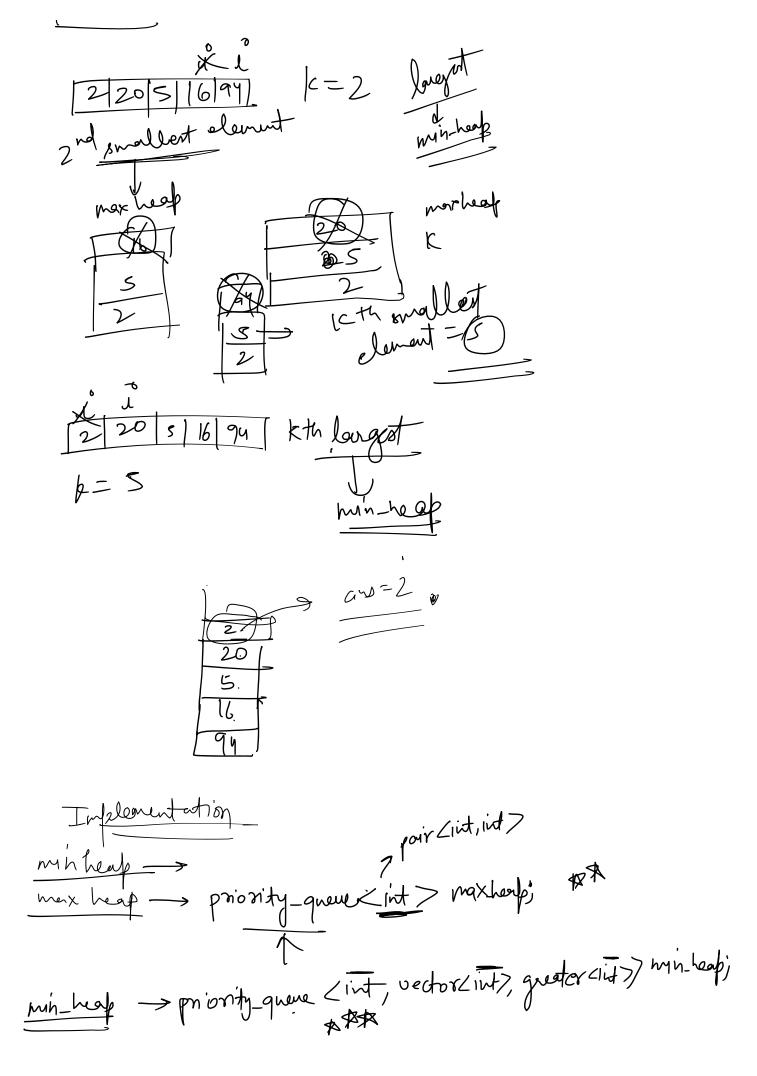
Max Heap & th largest

Minteap Minimum element at tep

- max ment



Classes Page 3

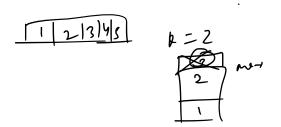


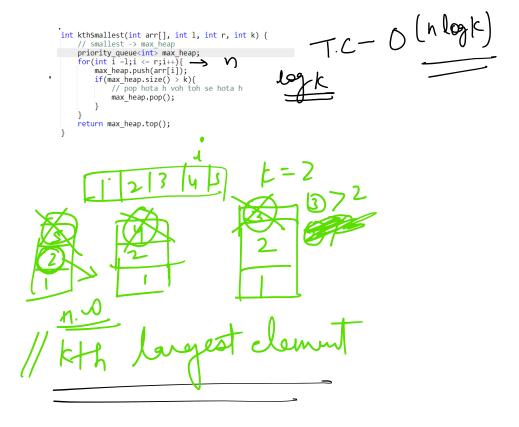
priority-que < DT > max heap;

priority-que < DT, vector < DT >, queater < DT > min hert;

comparator function

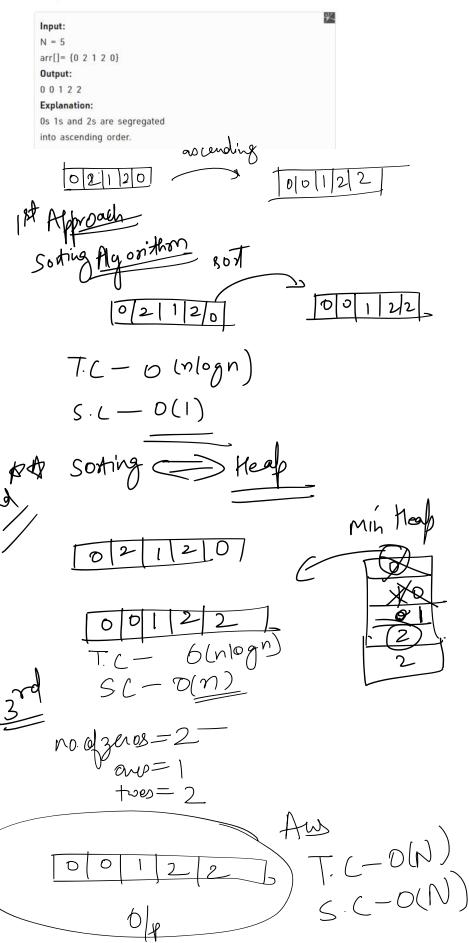
Ft smallest Element Coele



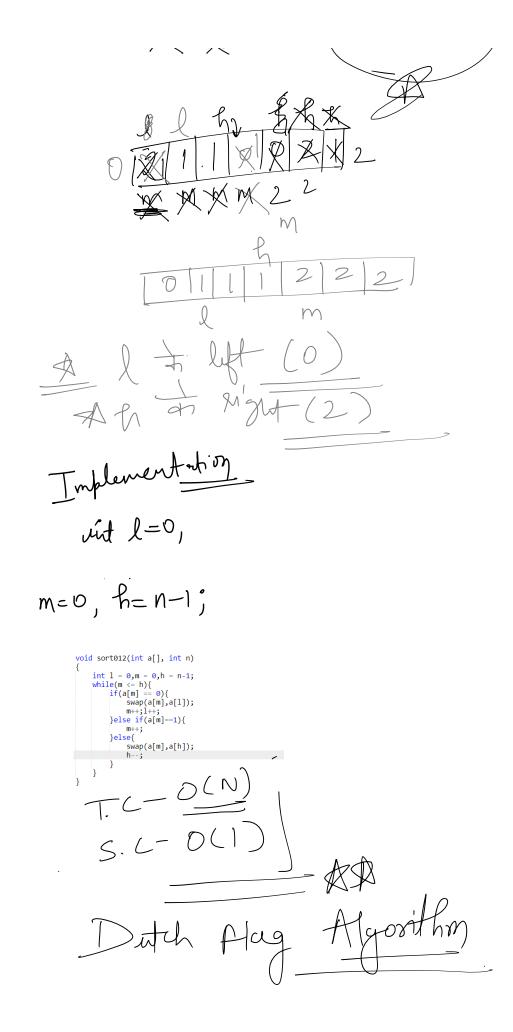


Given an array of size N containing only 0s, 1s, and 2s; sort the array in ascending order.

Input:	*
N = 5	
arr[]= {0 2 1 2 0}	



Algorithm (Duth Plag) O 3 printer swaf [au[]] au[m]) prof(an[m]an[h]){ m++2 * 1,2 \mathcal{O}



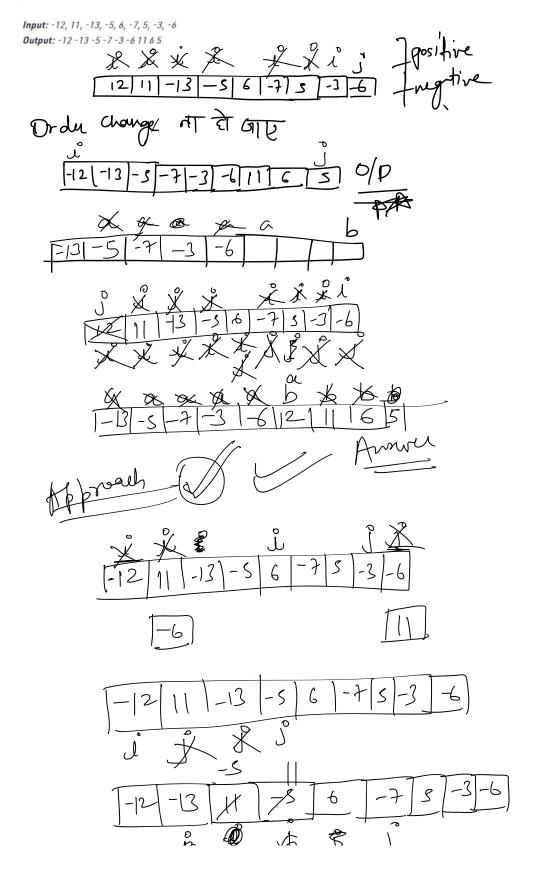
Move all negative numbers to beginning and positive to end with constant extra space

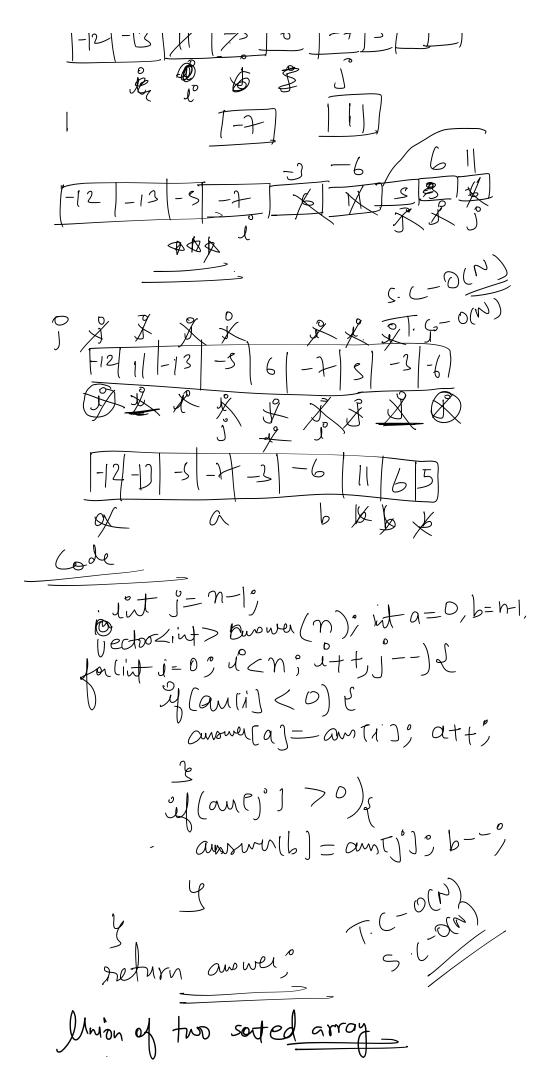
Difficulty Level: Easy • Last Updated: 14 Jun, 2022

Read Discuss \square 0

An array contains both positive and negative numbers in random order. Rearrange the array elements so that all negative numbers appear before all positive numbers.

Examples:

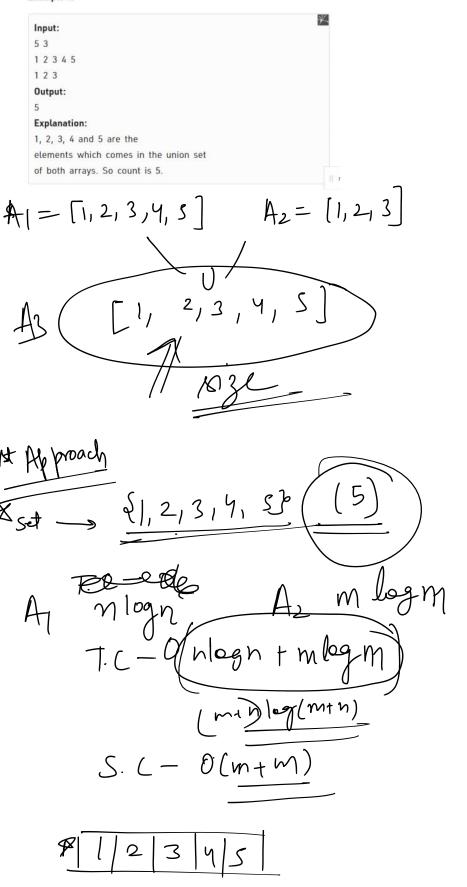


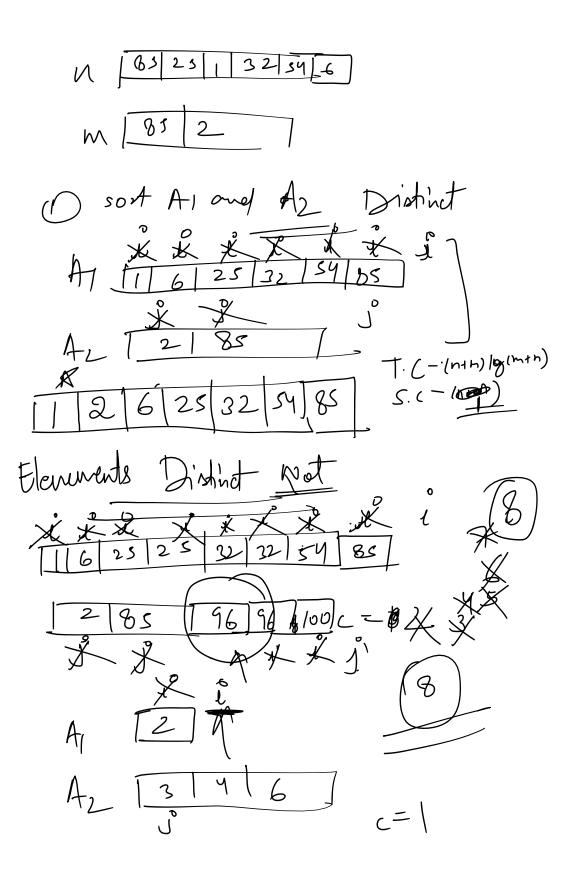


Given two arrays ${\bf a}[]$ and ${\bf b}[]$ of size ${\bf n}$ and ${\bf m}$ respectively. The task is to find union between these two arrays.

Union of the two arrays can be defined as the set containing distinct elements from both the arrays. If there are repetitions, then only one occurrence of element should be printed in the union.

Note: Elements are not necessarily distinct.





Classes Page 12