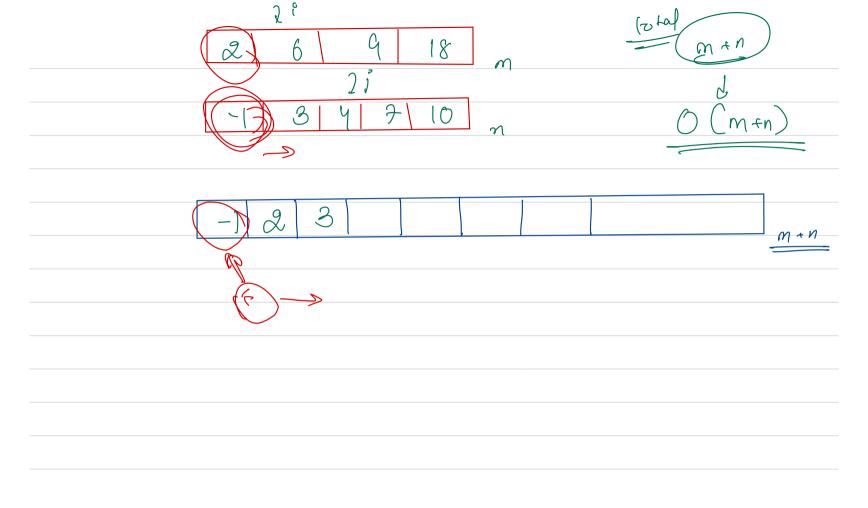
lien Sort O(n²)

Souted region unscorted region (min) elem => Peledian May Sort issue with selection Sout > from the unsouted region, me toy 10 find the min clement again & again wing Something Similar to usen haof? How to oplemere?? leneare <u>Search</u>.

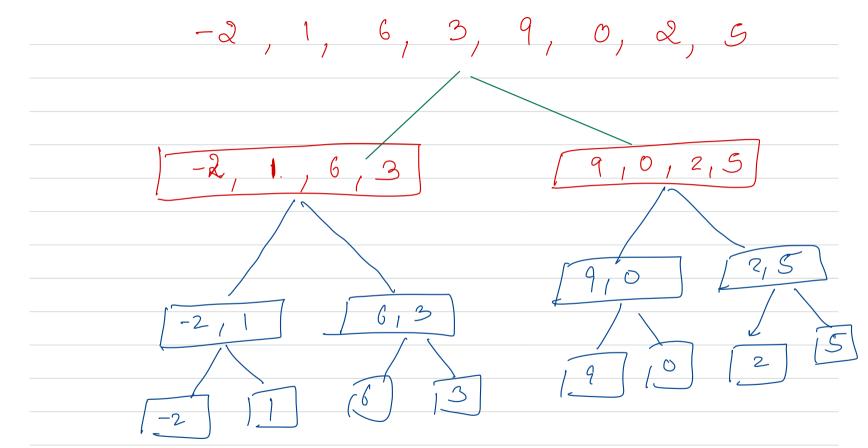
In a Subarray, find the min clement. * Keaps -> Complete Binary Tree These help us to find the hyliest prioriety element in O(1) time and removals (additions in O (109n) (min) time. Priority of parent > priority of child (1) (2) (3, -> 10 wer the foice peller the choice

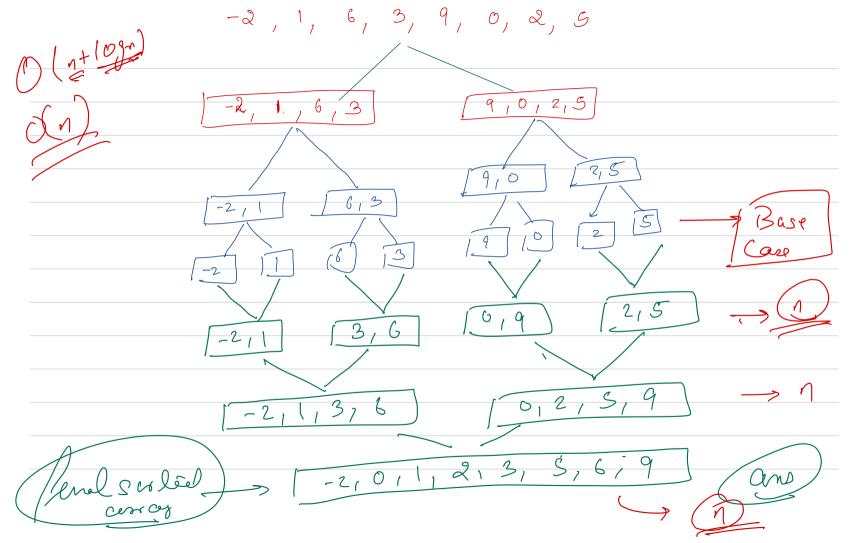
900 m 12 iso lated Inflace - Yes (nlogn) (nlogn)

Merge Soot 18 7 then & Scoted array fenal ____ -1 2, 3, 4, 6, 7, 9, 10, 18



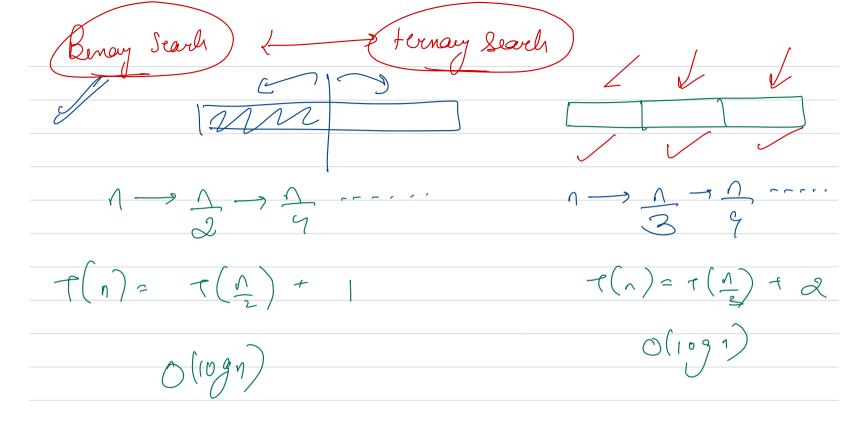
-, Unsarted Sorte MS (arl)



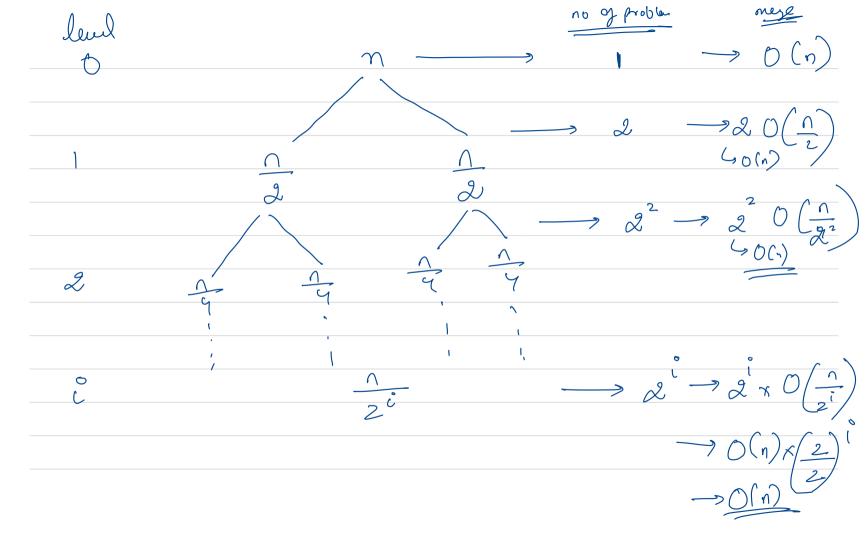


(Gn (mida), nn), n) +) 06 (0, n-1), n) f (axlo, mid), 1)+ it merge scots

genes Jou 20, of apply muye sust apply muye sust mest Soot an any $2T\left(\frac{n}{z}\right) + O(r)$



Bloomby T(n) = 27(n) + O(n)Rusin Tre



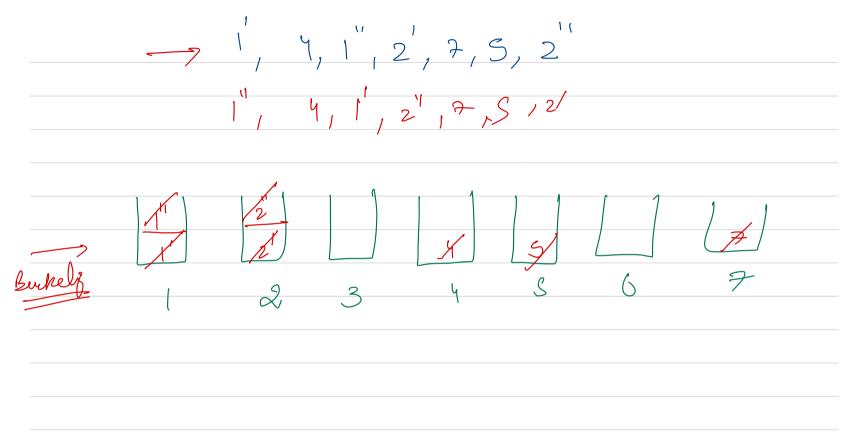
on each level un do O(n) task Time Compleme = 1091

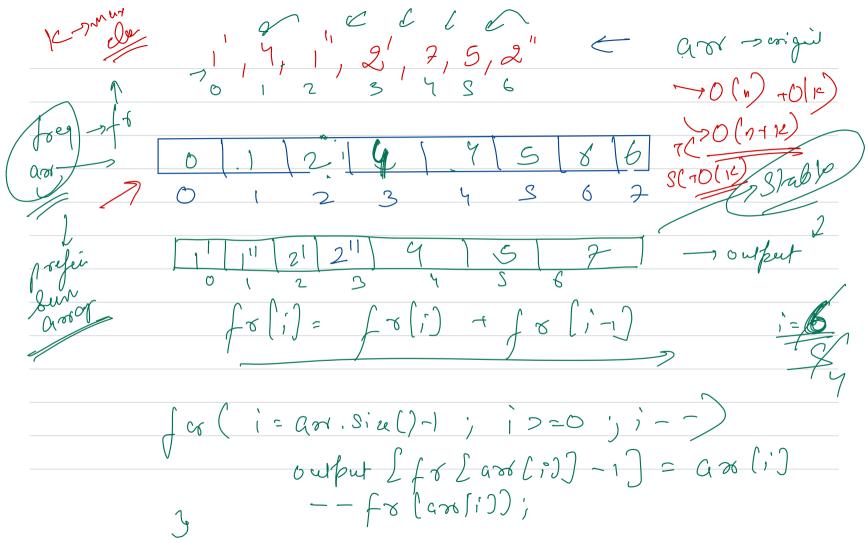
(n/090) TC O(n/ogn)

In\$790 ->	No		
Stable -	40		
No of compan	$\rightarrow 0(n(0))$		

11 -> n² -> nlog n -> lineer tine

(outy go cot 1, 2, 2, 5, 2 - 2, 2, 4, 5, 7 - 2 anot Stably





What is for denoting often forefer sum. at any ith index, foliss-I denotes the index of the last element i from array Country Sent Pouls Per confects with layer duts 9 (i) \(\) (1,10°0) p K -> 10 206