

\* height of any free can be calculated
willy [h = log(n)]

+ when adding items into array if has to be hollowed level U Wise and left to right.

80 69 73 56 45 51 51.

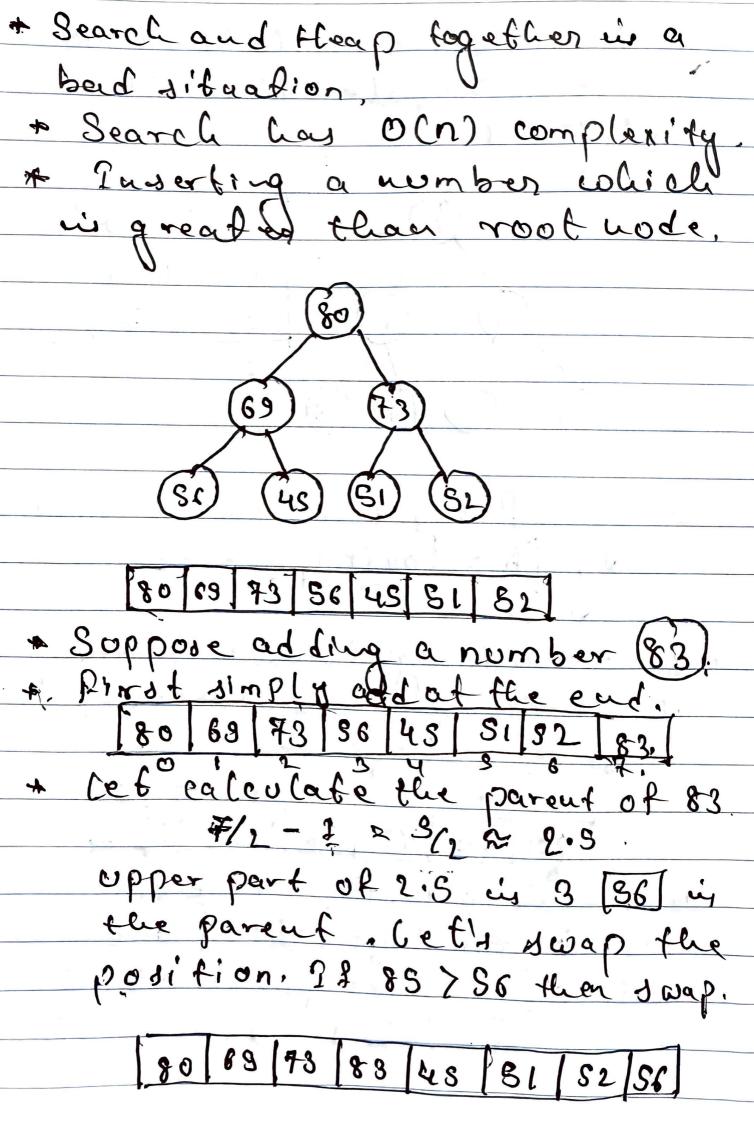
As tein in structured tree so the

2 i + 2 j. Po get parent Ned.

1 = 1 = 1 => 4 - 1 => 11

2 1 69in

Parend



Agadu same step; 80[88 73 89 45 S1 S8[SC] 95 [85 | 73 [69 | 45 | 51 | 52 | 51] → Rusert complexity Log(n). or O(logn), ORublest case O(1) Deletion - It deleting last elemen O(1). It working with Binary heap we are only allowed to delete root node.

O(logn). + Heap Sort! Heap sort means sort either aceuling to descending or descending to ascending \$ Zu terms of max heap we'll go from min to max.

\* Priority Queve: - Pu priorite, Sueve the PIRO in not Gollows the element with priority. Priority Dueve i implemented by heap. + Heapify in a process of converting any binary tree into a complianent hearts.