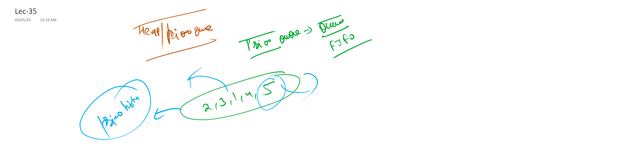
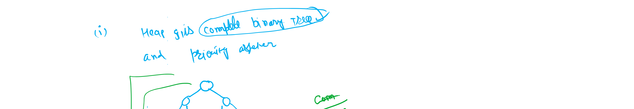
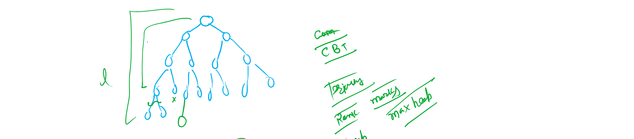
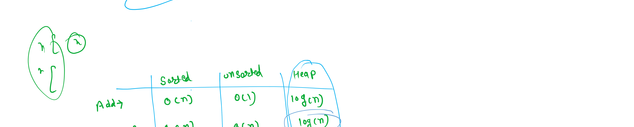
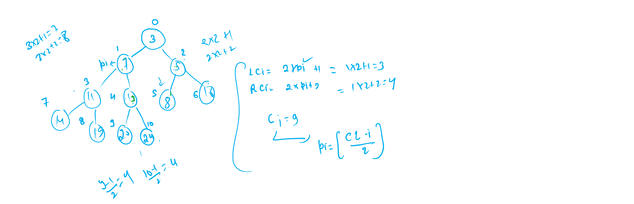
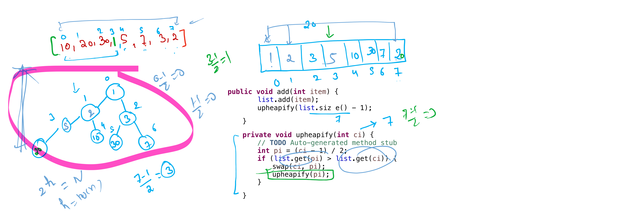


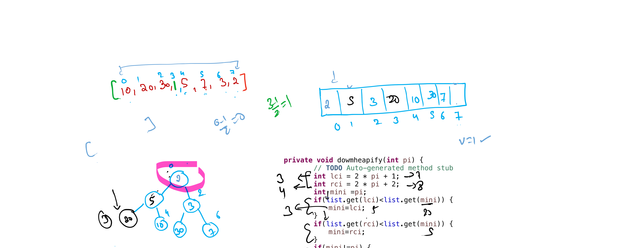








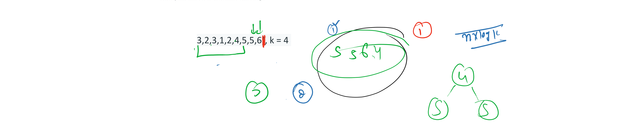




Given an integer array `nums` and an integer `k`, return *the* k^{th} *largest element in the array*.

Note that it is the k^{th} largest element in the sorted order, not the k^{th} distinct element.

Can you solve it without sorting?



```
public static int kthLargest(int []arr,int k) {
    PriorityQueue<Integer> pq = new PriorityQueue<>();
    for (int i = 0; i <k; i++) {
        pq.add(arr[i]);
    }
    for (int i = k; i < arr.length; i++) {
        if(arr[i]>pq.peek()) {
            pq.poll();
            pq.add(arr[i]);
        }
    }
    return pq.peek();
}
```

```
class Solution {
    public ListNode mergeKLists(ListNode[] lists) {

    }
}
```