Claus starts @ 7:07 am
DSA: Lab Session on Heaps and Greedy
Abravind Kumar S
DSA SME @ Scaler.
Las Real time Broblem Solving Situations.
Las Real time Broblem Solving Situations. Las Solving perobleme.
Structure: Rick or problem
Quick read
Tony to solve it - (asour)
Dirusion of Solutions of

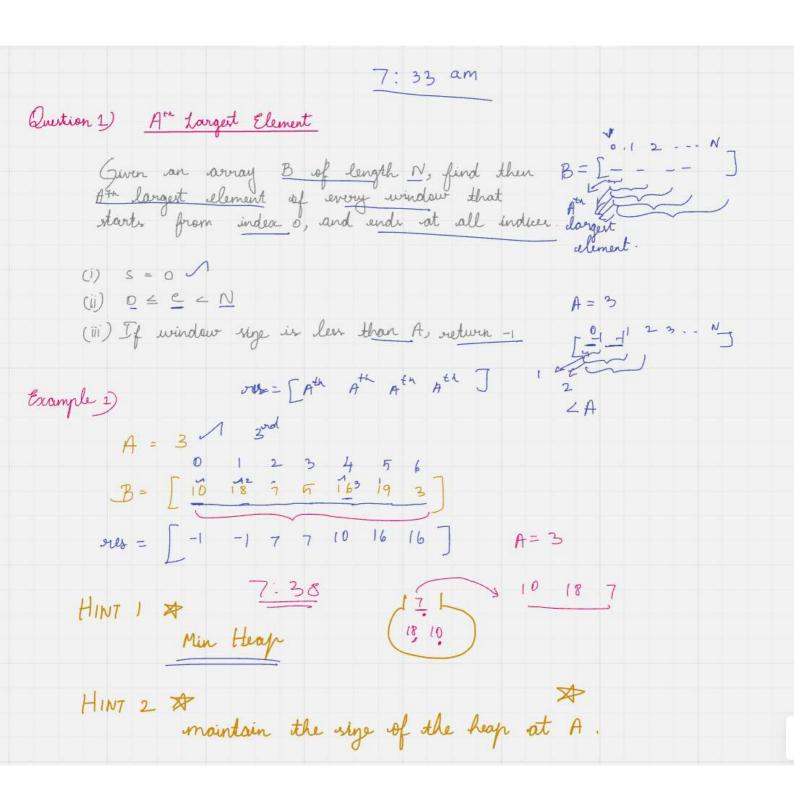
Broblems.

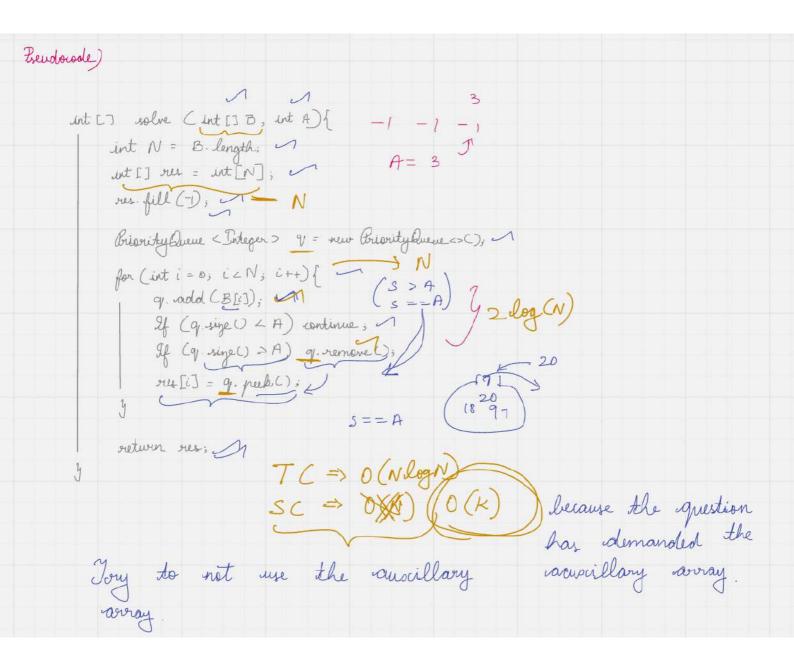
1. Ath largest element

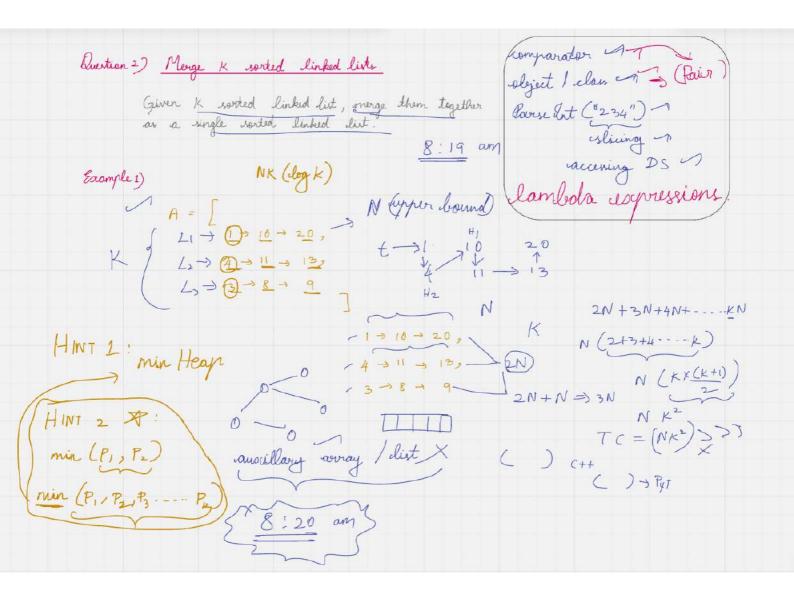
2. Merge K sorted linked lists

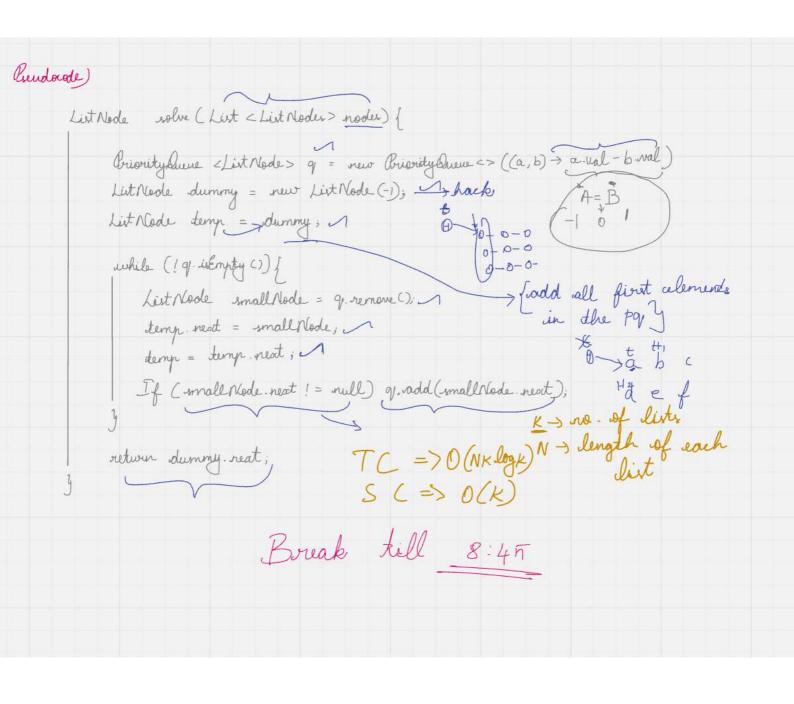
3. Flipkart's bla bla.

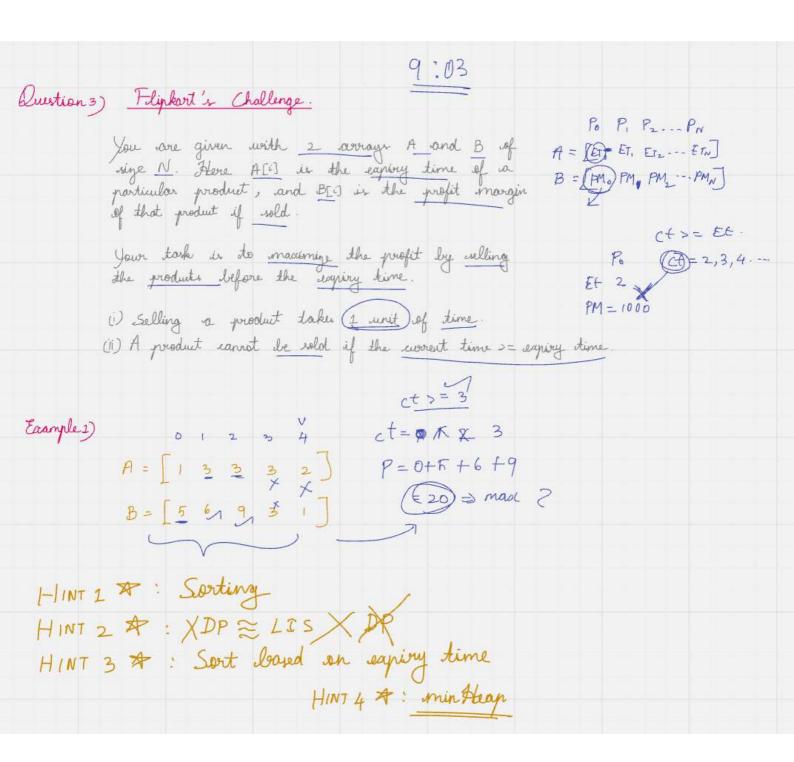
4. Distribute canolies.











```
(Bendowde)
         1 * public class Solution {
                class Product {
         3
                    int expiry;
                     int profit;
         4
         5
                     Product(int expiry, int profit) {
         6 *
         7
                        this.expiry = expiry;
this.profit = profit;
                                                                                                                iava util. *
         8
         9
         10-
                 int mod = (int)1e9+7;
         11
         12
                 public int solve(int[]
        13 .
         14
                                                                B
                     int N = A.length;
         15
                     List <Product> products = new ArrayList <>();
         16
        17
                     for (int i = 0; i < N; i++) {
         18 *
                        products.add(new Product(A[i], B[i]));
         19
        20
         21
                     Collections.sort(products, (a, b) → a.expiry - b.expiry); ⊌
        22
         23
         24
                     int totalProfit = 0; /
                     int curTime = 0; //
PriorityQueue <Integer> pastProfits = new PriorityQueue <>();
         25
         26
         27
         28 *
                     for (Product product : products) {
         29
                        30 .
         31
         32
         33
         34
         35
         36
                         totalProfit += product.profit; 6
                        totalProfit %= mod; p
curTime +; pastProfits.add(product.profit);
         37
         38
         39
         40
         41
        42
                     return totalProfit;
         43
                                                                                       100
        44 }
```

