Merging Tuesday, 31 August 2021 8:10 PM	SU.	30 x	TSP3 - logic - Rom	ove-
19 - Rec	SPJ + TSP2 == ursion and backhac cedust ces	daing	Class Schedu 30 question	7-3
turther seq	Reunson or Reunson or Fired- Maps Maps Linkadlist	Craph-	Tuesday - 8:00- Trunsday - 8:00- Saturday - 10-2	12:00 7-117 5:30-10:30 -1 6:30-10:30 at complete

Faulty Keyboard / Long Pressed Name

Tuesday, 31 August 2021 8:42 PM

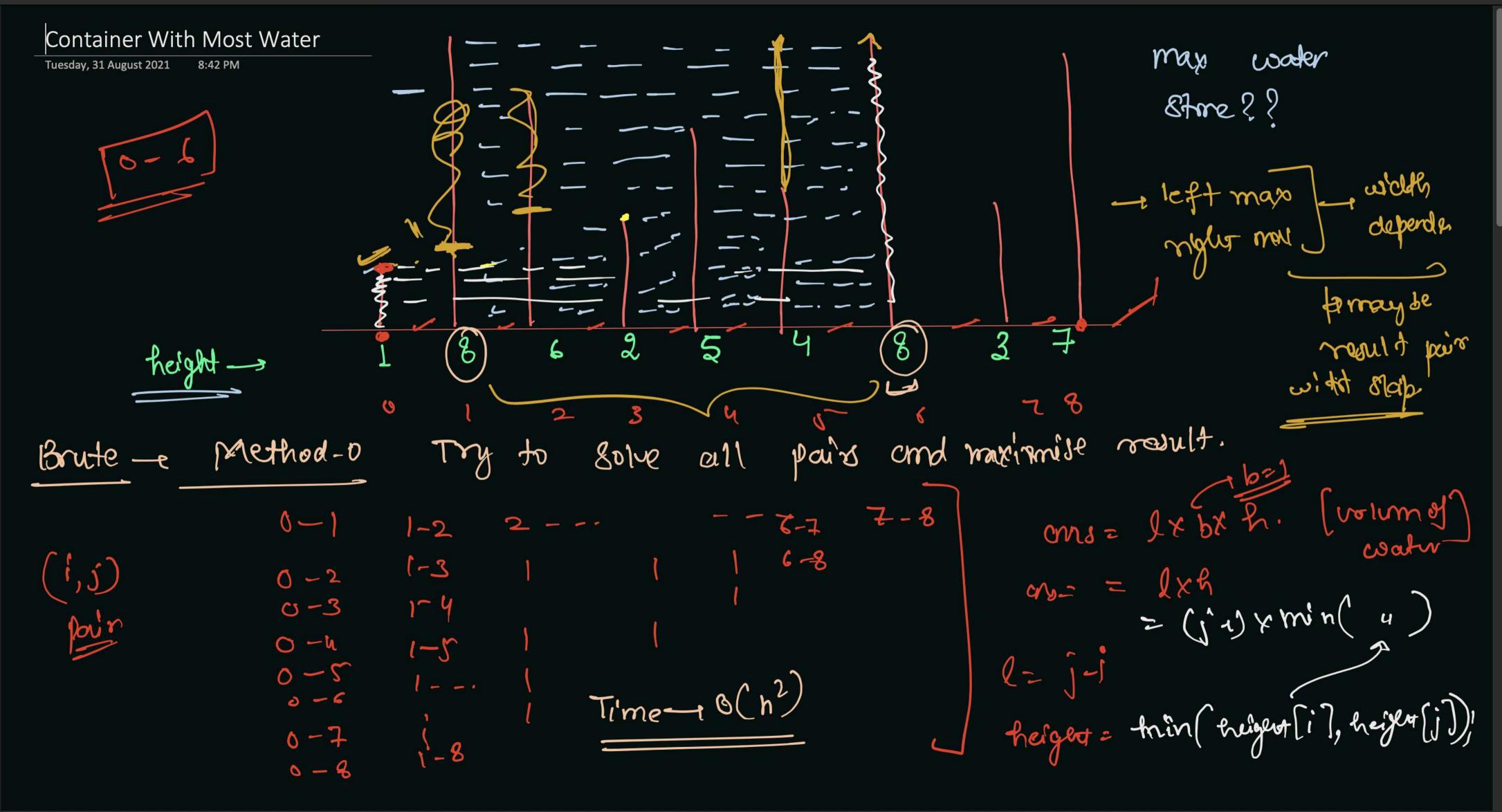
Name aabccd typed output - TRUE

Name - lee lee -typed ll ee e l ee output -e TRUB

None -> typed - ss ag edd Name - Shree type- sshrre Oputo - FALSE ss hrrevole e Redurn - False.

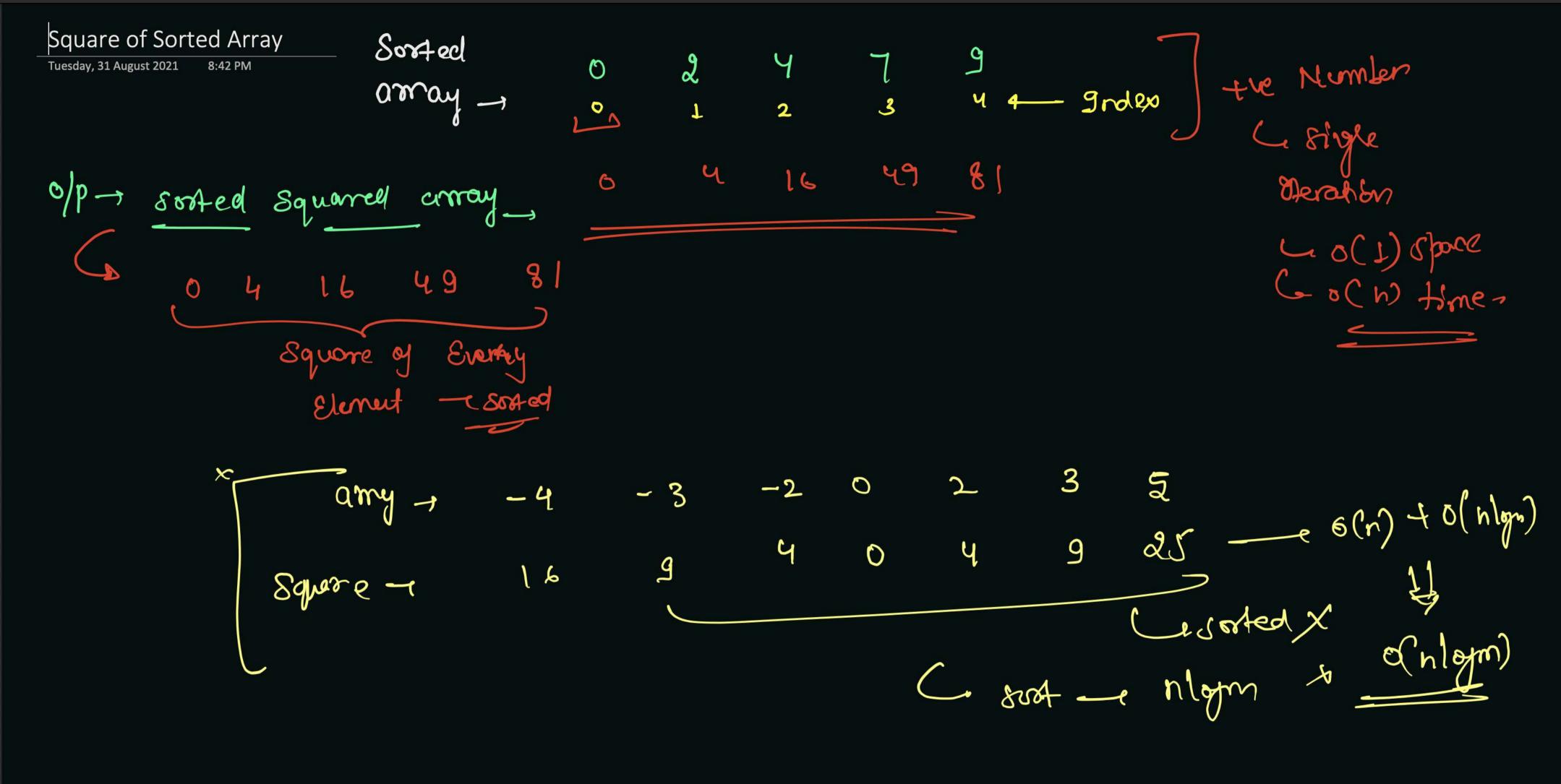
Brute Force shree Nome -Ruming 85 hrre typed -713-HoshMapx Strong lift & correppor Clares if (name[i] = = typed(i)) m 3 else if (norme [i-i] == + ped[i]) 3 else { -1 Retm Falle-

```
aabbcddeef -
                                                         // leetcode 925 https://leetcode.com/problems/long-pressed-name/
name -
                                                         public boolean isLongPressedName(String name, String typed) {
                                                            int i = 0; // name string - if (name-legth() styped-(with())
             asb cold ef -
typed -1
                                                            int j = 0; // typed string
                                                                                               refu false.
          name.leyth()> typed.leigth()
                                                            while(i < name.length() && j < typed.length())</pre>
                                                               if(name.charAt(i) == typed.charAt(j)) {
                                                                   j++;
                9 mpossible to Extract
                                                                } else if(0 \leftarrow i - 1 && name.charAt(i - 1) == typed.charAt(j)) {
                                                                   j++;
                                                                 else {
                                                                    return false;
                                                                                   while (j ' typed.length()) {
                                                                                      if(typed.charAt(j) != name.charAt(i - 1)) {
                                                 gralid - of
                  bbcd(d)
name-
           aaabbb
```



- rax. vater. waters Brus ach h= min(height[i], hierglit[i]); Possibility-, maincer - i </ 8 6 cuses-1 case 1-4 water marimist doesn't mare - min. wooten => Breates lergsth, smissong p

htif (AH(i) < h+(j)) gndr-144; } else ? 1= j-i = 8 7 6 8 4 3/2 L h= min(k4j], h+li)= 1 3 8 4 8 2 6 wooder = lxh = 8 48 48 46 26 26 6 max water = 18/8



East-> ulodu. amy -Time - O(nlgn) Allowed Time - O(h) x lagt max Square 0 Squant for (int Keleythol; K >= 0: k-) } mout the olem Wallzam [i]; most tue K Val 2 = am[]]; if (vall × vall > val2 + val2) {

if (vall × vall > omlk) = vall+vall. vala - earte7 = val2 & val 2! place

5

Majority Element - I 2 3 4 3 5 Tuesday, 31 August 2021 on corray, assume every relement Travel Method no as ratio condidate for majority and checky ocomerce in array Time - o (n2) space- o(1) froof Maintain a frequency map, and check if Method-1-Every time fræg. is greater thom n/2 then elemet is Complexity may anity Element: Time -10(n) 0(n2) - 0 (loy) Space -co(h) hash Map _ < Integer, Integer > - o(nlym) Method 2 - pair up diethot Key Valew (optimise) Element and find Element unhaired valid Condi date for majority Elemets.

6 Space occupied by an Elemet Majority amay - sizezlo 3 4 poiring technish unpoired - + Vould condidate for majority stents? Unpaired - e vouli'd conditionate MOORE'S VOTTING Algorithm. tre modernitt. pair up distinct Elements and find a valid comdif condidate have freg. Morre then (1) check n/2 ten it is Mayority Ekr

MOORE'S VOTING Val= 2 4 2 val #(am[i] == va1) { A valid condidate some Count ++; Element for may mity selse § court if (count> 0) { puinup. NOTE: If majority is exist is orang J else { valz am[1]! tre it is volcreck if for of val in on count=1; Aherosise no majorit is more than n/2 or hot Elent Exist 31441 val is mgionit -

