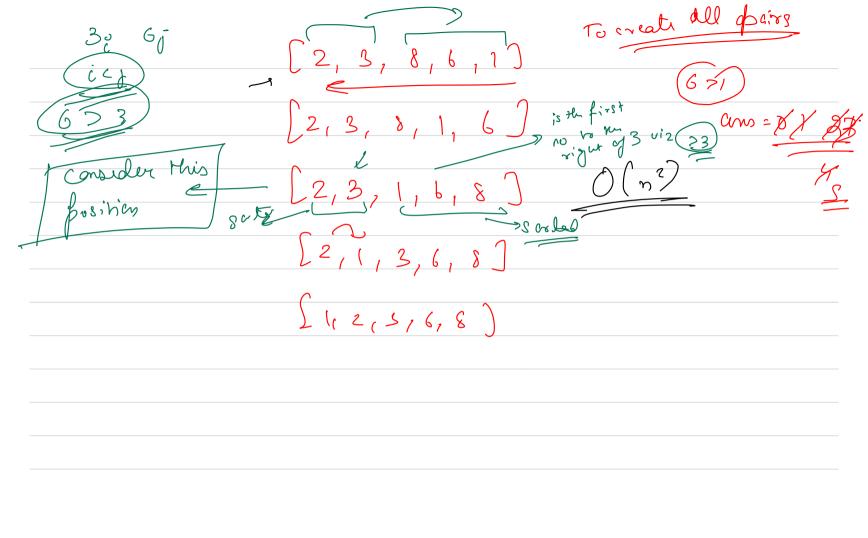
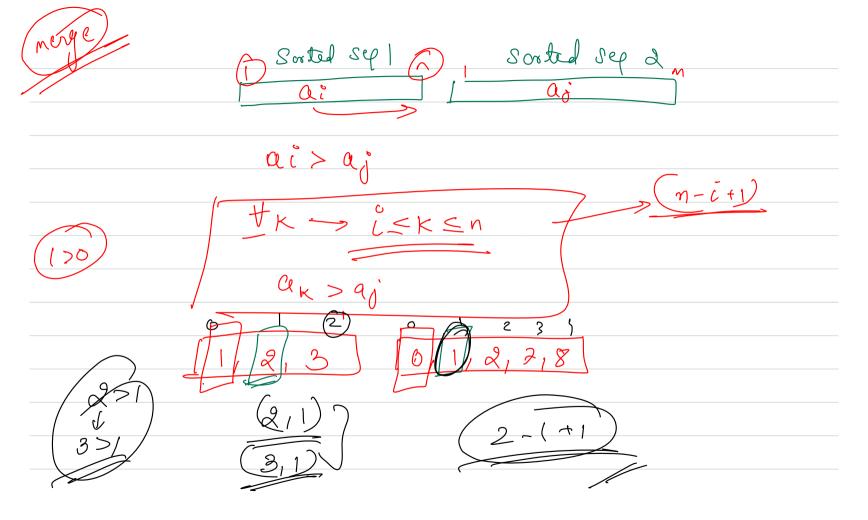
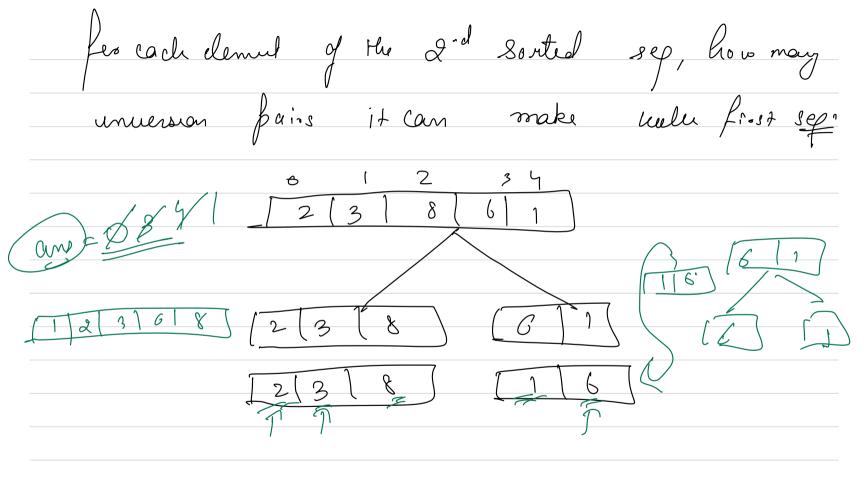
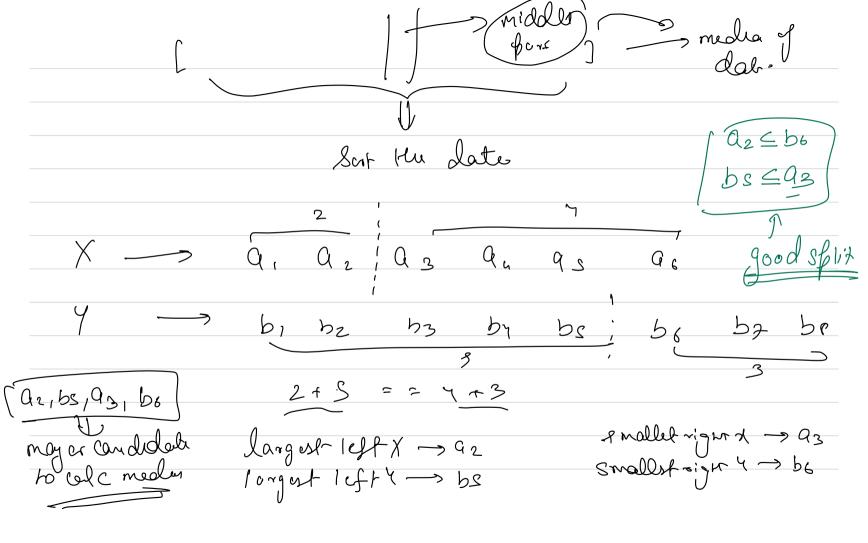
INVENT  $\alpha[i] > a$ ans -> 5 valid if you make all pussible pairs, then the pair cuils elements (alil, aly) certure ich 100 arun m & 2 x105 (6,1) le alijo alij is a vali unversion rtuense Sorlie TNO inv couls 11,2,3,4)







7 rus in Total inv > invent from left + inv cont from right Les Chara au two Souted lists of different sizes. find the median of the elements from both the Try to do this is less than O(n) Ex -> [1,12,15,26,38] & less than O(m) [2, 13, 12,30,13] & las Han O (n+m) <u>An</u> 16



holds tore we change the split We already know G2 < 93 and be < bo but if  $a_2 \leq b_6$  and  $b_5 \leq a_3$  then everythey on lyfsize

is less thou as qual to chey them an oight &

this 98 the best stit

the split (2+5) == = (4+3) bisition chayes smallet right  $\rightarrow 93$ Smallet right  $4 \rightarrow b6$ largest left X -> 92 longest left 4 -> bs Change in Q2 = b6

no of elects -> 1 parhiroux partiteny = (aty 1)//2 - bookienx Parkin 1 + Ponkin 4 = (2+4+1)/2

