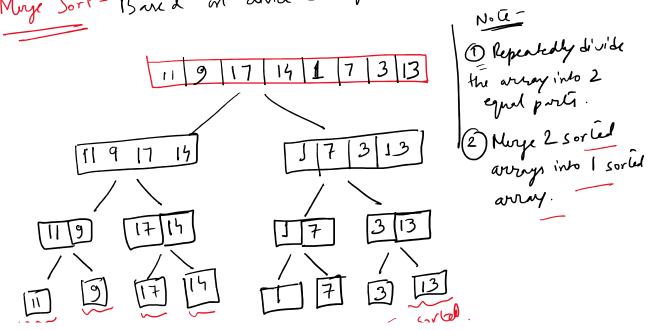
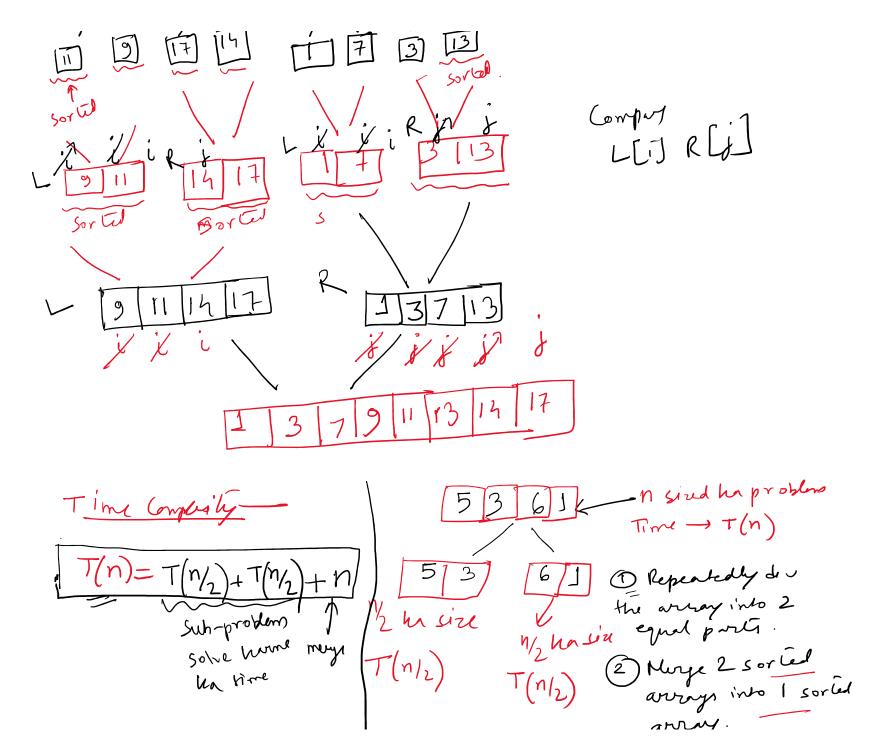
Morge Sort-Brued on divide l'conquer method.

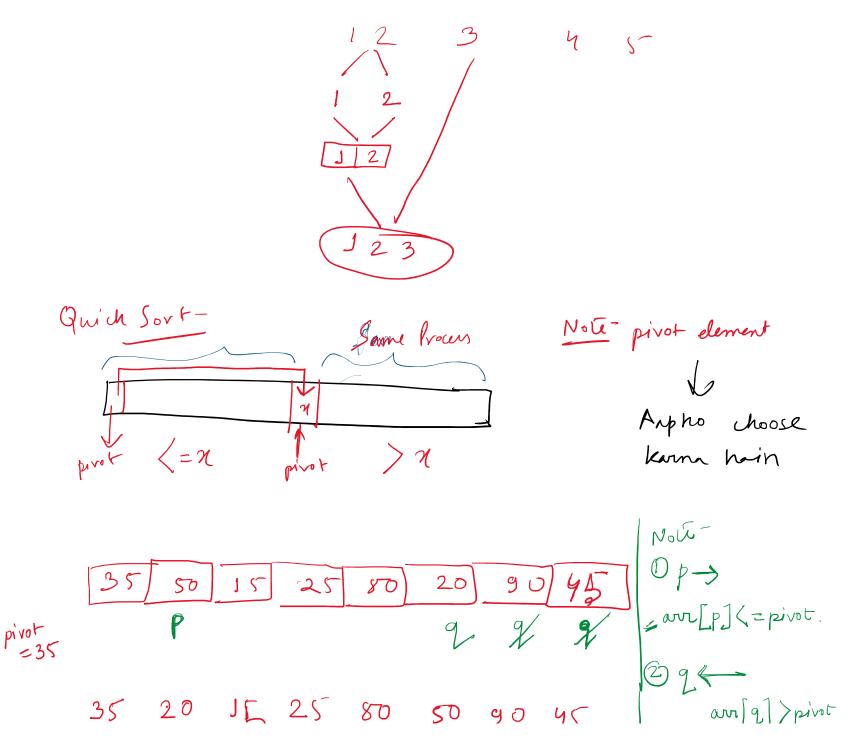




(1/2) avrays into 1 sorted array. T(n) = 2T(n/2) + n at (n/b) (n' log' n)a=2, b=2, k=1, p=0 a bh $(\text{ond}^{\,N} \, 2a \rightarrow T(n) = O\left(n^{\log_2 a}, \log_2 n\right) = O\left(n^{\log_2 a}, \log_2 n\right)$ $=0(n \log n)$ 5 C- O(n)//

123 45

New Section 1 Page



New Section 1 Page

35 20 JE 25 80 50 90 45 [an[9]>pivot (3) Chr if pandy have not Sw 4 (wor (p) , avr (9)) (9) If pad 2 wossed each other (80 50 swap (aur (a), plot); Pivot pivotz25 15 20

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pivotz 80