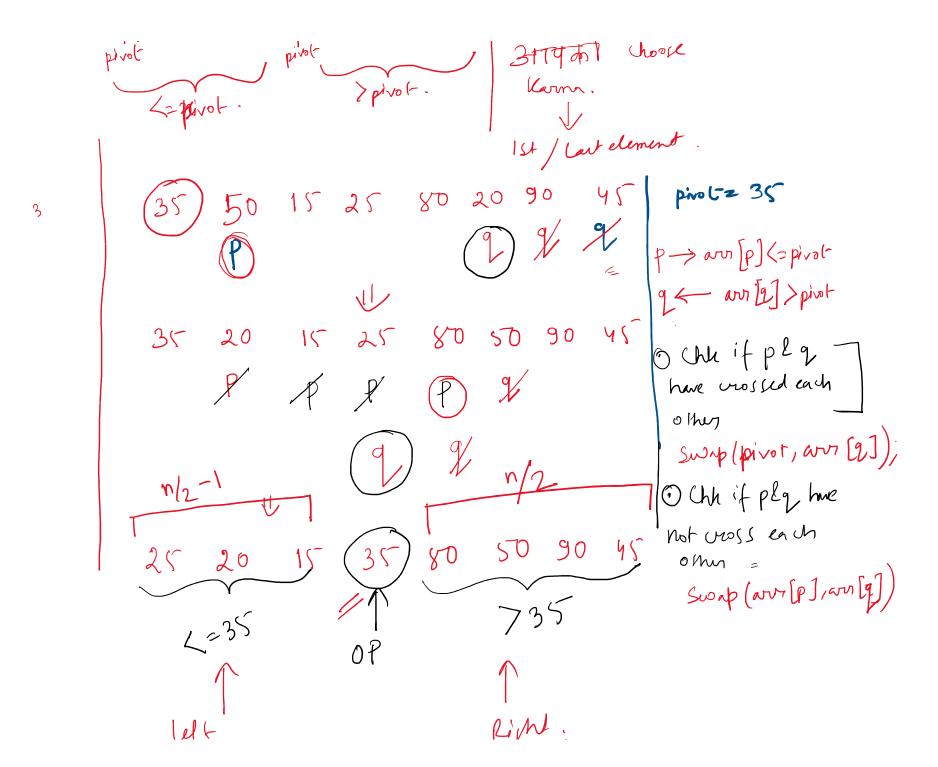
12345 Marye Sort-|SC -> O(n) / 123 45 $\frac{T(n) = T(n/2) + T(n/2) + n}{T(n) = 2T(n/2) + n} \longrightarrow O(n \log n)$ n=4 Quick Sort- Based on divide & conquer technique? phot pivo(X 1. 6



New Section 1 Page 2

20 pivot=25 ωη (γ) <= pivot. 20 = Surp(piro+(wr(2)) <= 25

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SC= O(1)
TC- Best Care Pivot element -> Original Position -> 111111 101

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$$T(n) = T(n/2) + T(n/2) + N$$

= $2T(n/2) + N$
 $T(C = O(nlopn)$