$\frac{N(N+1)}{2} \lesssim N^2$ ababa Total: O(N3) xyx ababa zabz Sorting & QuickSont \*) MercyeSont -> comparison-based -> O(NlogN) Quick Sont  $elem < P \le elem$ Quick Partition: How "QP" works? 40 150 80 anrilij > pivot -> DO NOTHING pivot = 10 arriti] < pivot

