

Week 8: Helpful Pointers

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Topics: Divide and Conquer algorithms- counting inversions, closest pair of points, Karatsuba's algorithm for integer multiplication, Quick Select and Fast Select, Recursion Trees

1. Counting Inversions- count pairs, list down the inversion pairs, minimum / maximum number of inversions possible
2. Properties of Closest Pair of Points / Karatsuba's algorithm
3. Recursion Trees, computing complexities
4. Quick Select- properties like best and worst case, dry runs, perhaps
5. Fast Select- properties, dry runs