Stade -> Reveral Note: [Oracle] Pivot [ADA] Algorithms: > Searching * Binary Search -> s,e -> logn * Recurelive Binary Search Hogh * Jump Search Vn * Interpolation Search -> Non-compaison Algas line Complexity: * 1 Count Sost (11) Radix Sost Count Sost Algorithm :> 000 111 2 6434132311 -> len 012345678 * Single digits (0-9) * Non-compalison algo Steps: > 1. Find the max = 6 2. Create a count array -> Cumulative 4. Cumulative count 5. Ofparray 6. Start from the end -> Unit's, tens, hundred's * Radix Sort Algorithm: -> nele 325 1009 246 082 001 * Non-comparison Algorithm * Multi-digit Numbers O(n+max) (P1 count [P2 001 009 325 246 082] Soit * Constant Length Strings "powon" "samen" "samel" * Bucket Sort 5->1 Create (0-9) 10 buckets -> 001 082 —) 001 009 325 246 S→2 Find the max -> 325 246 325 no of digits -> 3 -> 3 passes -> 001 Important Boints about Radin Sort: Each iteration of radia sort focuses on single digits. Therefore, in each iteration we call the count sort method to sort the single elements. * Also, le fine complexity is similal because n elements are soft to be we find the max value for the no. of iterations. Big O (n+max). * Therefore Radin & Court Sofe are called siblings. * How is the number of iterations | steps | passes controlled in Radix Sort Algorithm?

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exp = 1000 for (int exp = 1; max/exp > 0; exp x = 10) max = 325count Sort (arr, ext); 325/1 = 325325/10 = 32 325 | 100 = 3325/1000=0