Coiteria & Percentage Breakage 10 % 20 % 20 % Greedy Binary Search Kecusion Arrays Strings Algos 4) Square Roof Heals Ly 1st, last, Total Bit Manipulation Starks element in an away Dynamic Missing Element in an array 1 henes Log Laming linked -> Peakin a Mountain Lists - Aggressive Cows Search In a 20 Matrix Kinary Search int n = 36 -> Square Roof = 6 $m = \frac{S+e}{}$ $m \times m = 18 \times 18 = 324 > 36$ e = m-1 = 18 - 1 = 17 $\frac{17}{2} = 8$ 8x8 - 64 > 36e=m-1=8-1= # $m = \frac{2}{3}$ $ams = mid 3 \times 3 = 9 < 36$ $S = m+1 \Rightarrow 4 - 7$ 5x5=25 < 36 S = m + 1 = 6 - 76 × 6 = 36 * Bulble Sort Algorithm: Asc/Des n=4, Rounds=n-1=2 Round 2 7 14367 Round 1 76 4 3 Iteration 1 3 Sortia for (iterations) -> 1 ton O(r) for (swap) -> 1 to n O(n) $O(n \times n) = O(n^2)$ i = 0 to m-1 min Index = i j = i+1 to m-1 min Index = jSelection Sort (Swap) -)508fid. 36 3/5/ 9 min Index = i if (arr[i] < arr [minInder]) { O(n) if (minIndex !=i) for: Swap (all(i), all(min Index) Insertion Sort: (Shift)