Selection Sort Selection Sort: select an element & put it on its correct index. Example: [get the greatest element of the averay of put it on its correct index Adaptive: Reduce no. of swap steps as 2, (3), (1), 4,5 compare to bubble sort 0, 3, 4, 5 1, 2, 3, 4, 5 -> Sorted! -> Here we selected maximum element & put it on right index, we can also do vice versa i.e, select minimum element and put it on right index!! (n-1)4,5,1,2,3 Total comparisons > (n-2) 4,3,1,2,5 already at & correct position (n-3) ignore in future 2, 1, 3, 4, 5 stebs. 1,2,3,4,5 $(n-1) = n(n-1) = n^2-n$ = 0+1+2+3+ Warst Case -> O(n2) neglect le Best case -> O(n2) dominating & => It is not stable sorting algorithm. => It performs well on small lists.