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 index] , 2, 3 4, 3, 1, 2, 5 2, 3, 1, 4, 5 2,0,3,4,5 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 > 4,3,1,2,5 (n-2) already at & 2, 3, 1, 4,5 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) Best case -> O(n2) dominating & => It is not stable sorting algorithm. => It performs well on small lists.