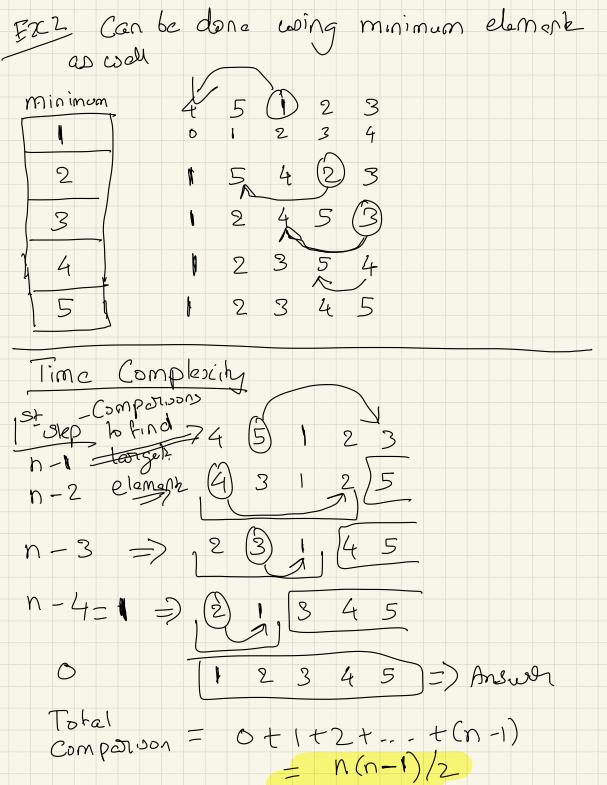


Selection Sort Ly select an element and putit in "ib Correct Index 3 Correct Index Tongest 1 2 2 3 Olemene 5 (In the) 723 4 5 (Inihal)



ItinE: Sum of n numbers = n(n+1)/2 (n-1)(n-1+1)/2 = h(n-1)total Composition = 12-2 = (Cont...) = $O(n^2)$ (Constants (e) and less dominating terms can be Temoved) WBIST Case = $O(N^2)$ Best Case = O(N2) Stability = [NO] We Case: Ik porforms well 07 Small lists / Arrays Algolimm For iteration of i, we are running the loop (n-i-1) times [i < = n-i-1]

Because after every iteration we con diminate the end elements which are already stited =) And is itorated [N-1] times.