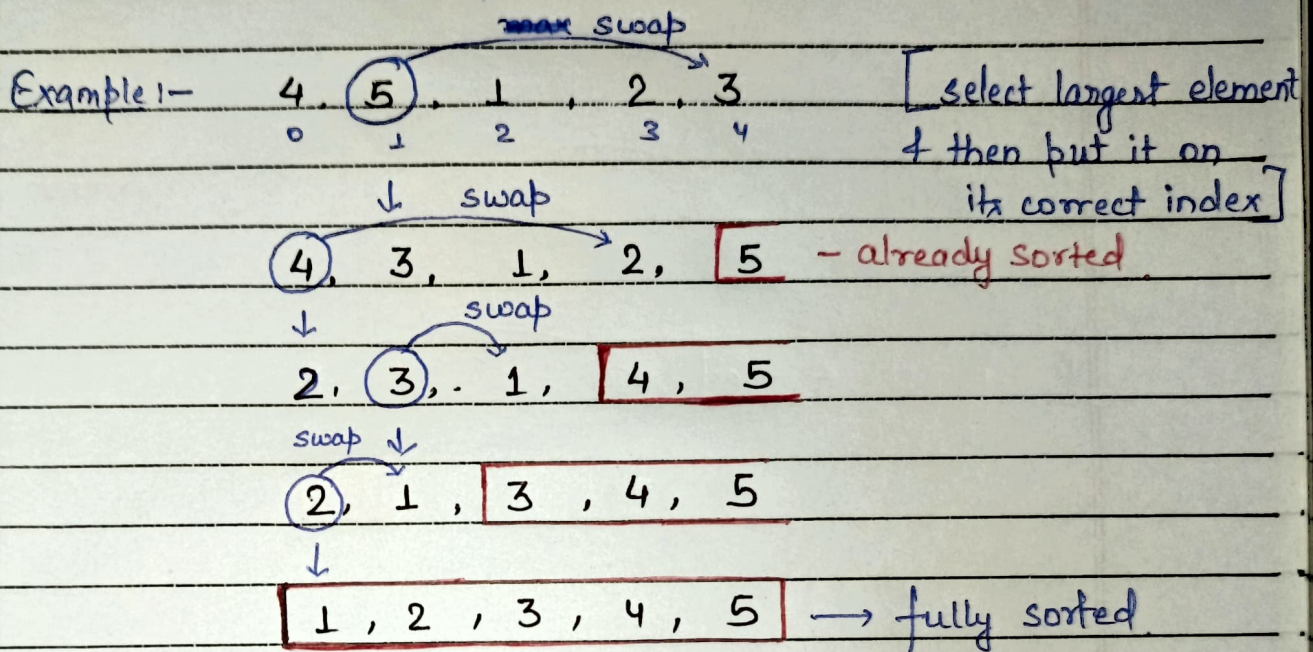


SELECTION SORT ALGORITHM.

Selection Sort :- Selecting an element & putting it on its correct index.



- Complexity of Selection Sort.

$$\text{Total comparison} \Rightarrow (n-1) + (n-2) + \dots + 3 + 2 + 1 + 0$$

$$\frac{(n-1)(n)}{2} = \frac{n^2 - n}{2}$$

$$\text{Worst Case} = O(N^2)$$

$$\text{Best Case} = O(N^2)$$

- ★ It is not Stable sorting algorithm.
- ★ It performs well on small arrays.