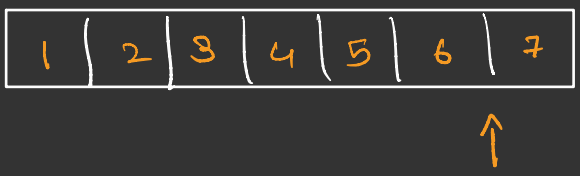
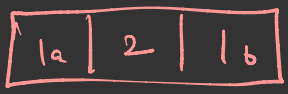
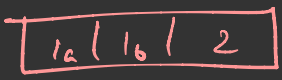
Sorting

↳ arranging data in a given order

Bubble Sort







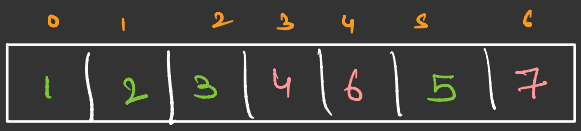
TC → $O(n^2)$

SC → $O(1)$

Inplace sorting ✓

Stable sorting ✓

Ques Selection Sort



min idx

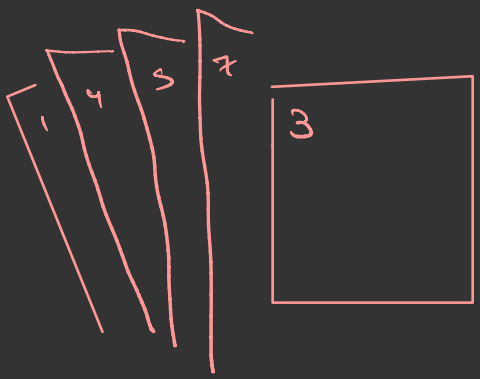
TC ⇒ $O(n^2)$

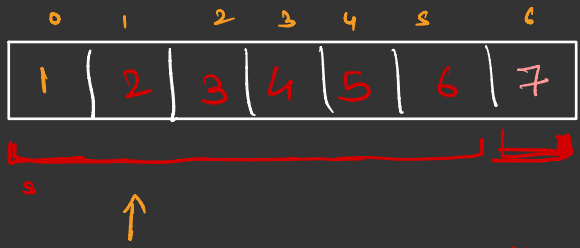
SC ⇒ $O(1)$

Inplace Sorting

stable Sorting X ⟶ unstable sort

Insertion Sort





ele = ~~4~~ ~~4~~ 3

TC ⇒ $O(n^2)$

SC ⇒ $O(1)$

Inplace sorting Stable sort