

③ selection sort :

Consider a list :

21	38	29	17	4	25	11	32	9
----	----	----	----	---	----	----	----	---

and we want to sort it using selection sort
so what we will do is :

- ① Find Minimum number from list and place at First position. (Basically we will do a swap b/w and minimum element.)

21	38	29	17	4	25	11	32	9
----	----	----	----	---	----	----	----	---

swap it

4	38	29	17	21	25	11	32	9
---	----	----	----	----	----	----	----	---

sorted unsorted side

- ② Now you have to find minimum number it in from 2nd unsorted side and place.

21	38	29	17	21	25	11	32	9
----	----	----	----	----	----	----	----	---

swap

4	9	29	17	21	25	11	32	38
---	---	----	----	----	----	----	----	----

sorted unsorted

→ keep on doing this :

4	9	29	17	21	25	11	32	38
---	---	----	----	----	----	----	----	----

swap

4	9	11	17	21	25	29	32	38
---	---	----	----	----	----	----	----	----

Now all the elements are sorted.

Big O complexity = $O(n^2)$
↳ we will use
2 for loops