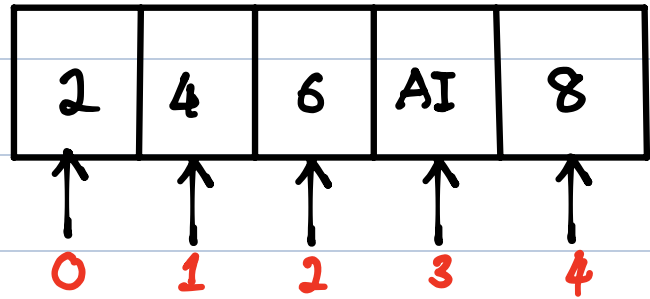


List

a list is collection of items, items can be of different type: integers, strings, float, ..., etc.

it is just a container.

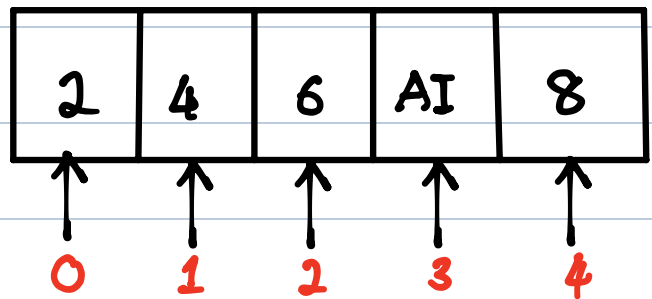
`list = [2, 4, 6, "A", 8]`



lists uses arrays as their internal structure.

That means items are stored in consecutive manner. by items, we mean the references to those items, not the actual items; items might be at different locations, but their addresses are stored one next to each other in a list.

`list = [2, 4, 6, "A", 8]`



At 0th location, the item stored is not 2, but the reference or address to 2.

just for understanding purpose, we placed 2 there

Advantages

- ① list items can be accessed in constant time.
- ② because of its sequential structure, it is memory friendly.

Disadvantage

- ① insertion and deletion are slow.
- ② search is also slow in unsorted list.