

## Inscrtion:

- · Random insertion: O(11): move cur pointer to desired location
- · Insect front: O(1): No moving of element required.
- · insert end: ocn) for singly, o(1) with tail ptr Larray was o(1) for end, o(n) for front

## Delete:

- · Delete front: OCI) : No shifting element required
- · Delete end: O(n) for singly, o(1) if I tail ptr

#### Scarch :

· O(n) for both sorted & unsorted

### Access:

· O(n) , array was O(1)

Benefit of Linked List: Dynamically assigned memory

# Doubly Linked List

head

· next , prev pte

0 4 C) 4 C)

- · can traverse both diras.
- · does not speed up also, just make cooling easier.

### Tail Pointer

- · Point to end of Linked List

  whend

  tail

  Null
- · makes insert & delete at end = O(1) instead of O(1)