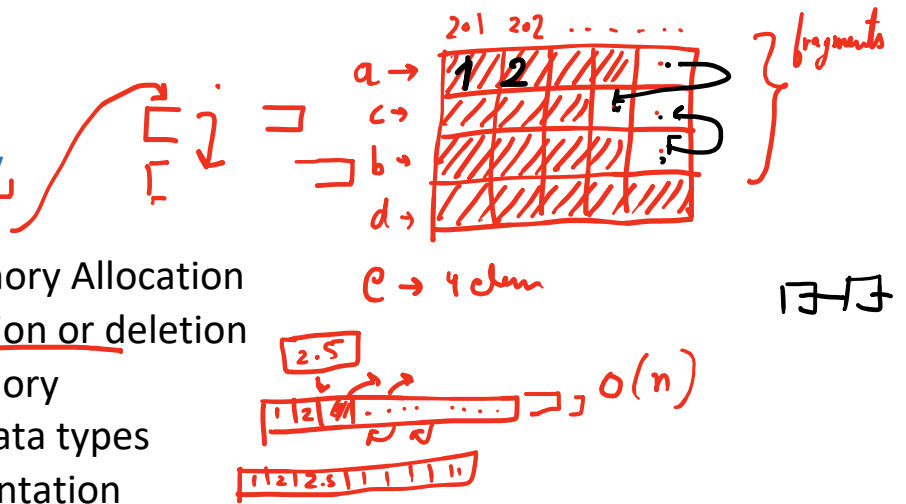


# Linked Lists

- Linked list is a data structure used for storing collection of data.

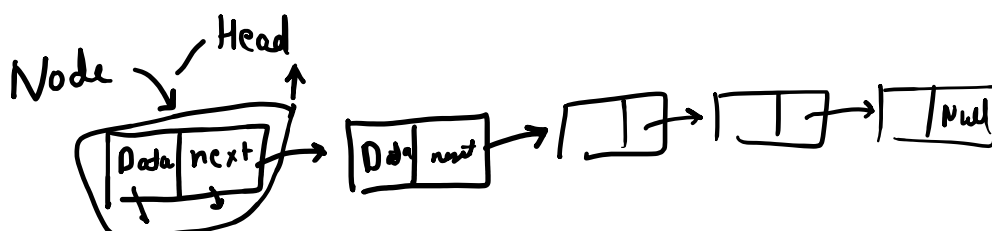
- Limitations of array

- Fixed size
- Contiguous Memory Allocation
- Inefficient Insertion or deletion
- Wastage of memory
- Homogeneous data types
- Memory Fragmentation



- Introduction to Linked List

- It is basically chains of nodes
- Each node contains information such as data and a pointer to the next node in the chain.
- In the linked list there is a head pointer, which points to the first element of the linked list
- If the list is empty then it simply points to null or nothing.



Date/Now

## Why linked list data structure needed?

- Dynamic Data structure. ✓
- Ease of Insertion/Deletion ✓
- Efficient Memory Utilization ✓
- Implementation → Stack, queue.

