

LinkedList

Michael

John

Alpha

Mark

Smith

Rock

Tony

Arrange the names acc. the first letters

{ Alpha | John | Mark | Michael | Rock | Smith | Tony }

→ how to maintain this list in memory

Array

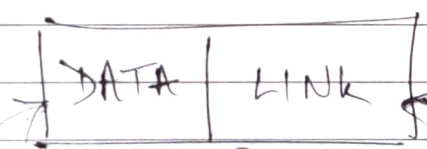
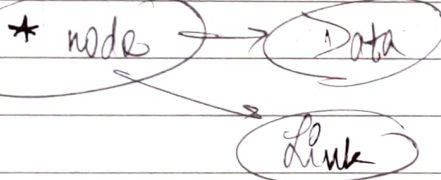
LinkedList

→ Single linked list
navigation → only

→ Doubly linked list
↔ Both

→ Circular ll.
first element linked to last

• Single linked list

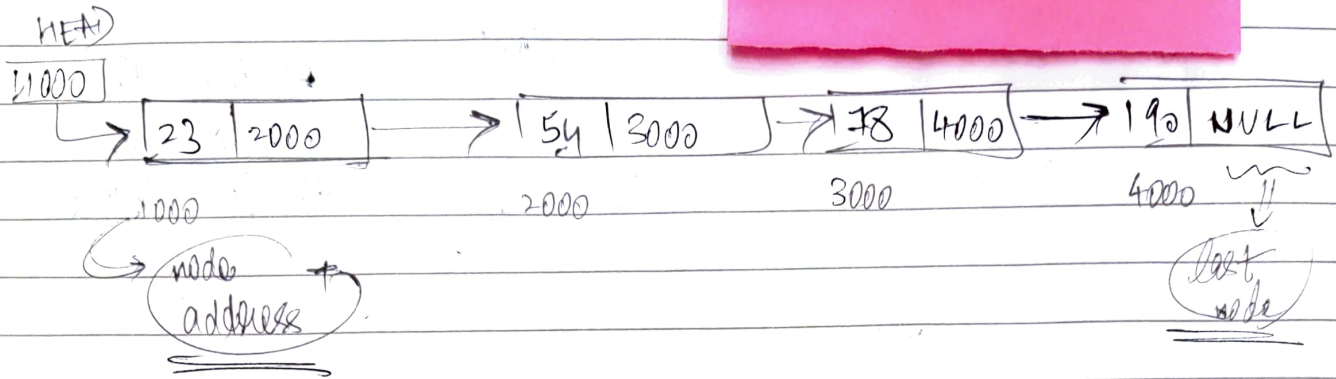


contains actual data

contains the address of the next node in the list

Linked-List

* store: 23, 54, 78, 90



* These nodes need not be in sequential order in memory
 → unlike ARRAY!

* If we have the address of the first node of the linked list, we can access all the nodes

But how do we access first node?

→ A pointer = HEAD

↓
 from this, we access 1st node

11000
 HEAD

→ from 1st, we access the other nodes