LINKED LIST

A linked list is a linear data structure that consists of a series of nodes connected by pointers. Each node contains data and a reference to next node in the list.

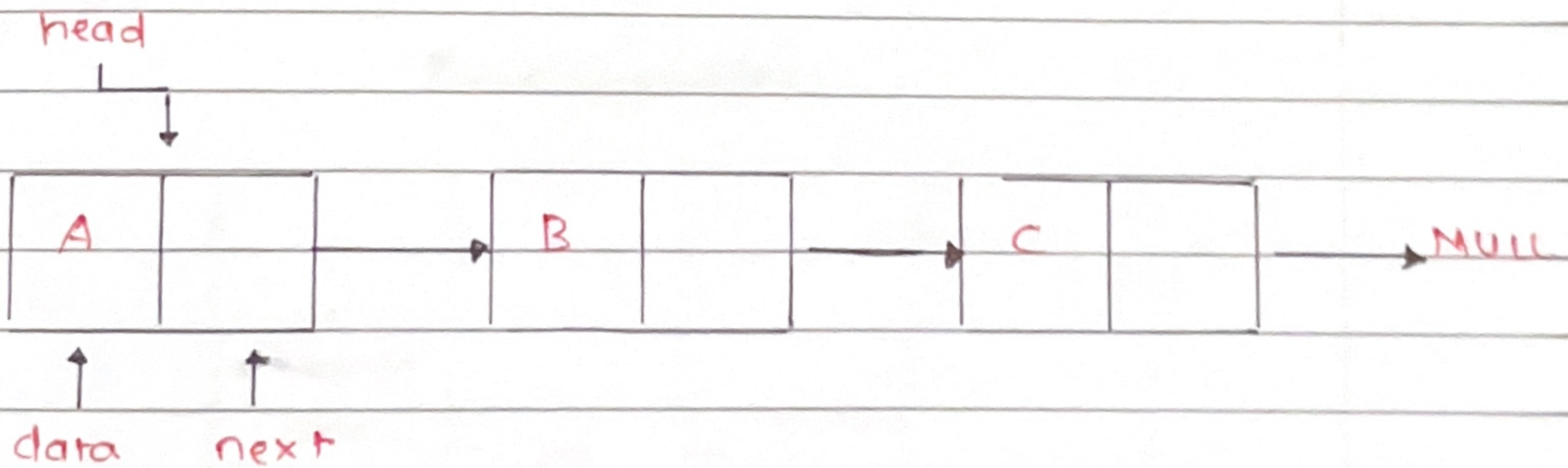| TYPES OF LINKED LIST |
|---|

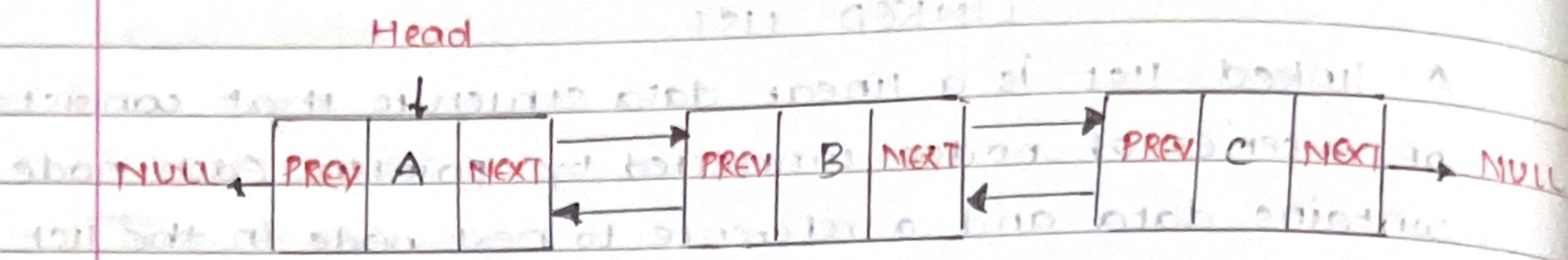| SINGLY LINKED LIST	DOUBLY LINKED LIST	CIRCULAR LINKED LIST	CIRCULAR DOUBLY LINKED LIST

SINGLY LINKED LIST

A singly linked list is linear data structure in which elements are not stored in contiguous memory locations and each element is connected only to its next element using a pointer

DOUBLY LINKED LIST

A Doubly linked list contains an extra pointer, typically called as previous pointer together with the next pointer and data which are there in singly linked list

Head

NULL ← | PREV | A | NEXT | → | PREV | B | NEXT | → | PREV | C | NEXT | → NULL

CIRCULAR LINKED LIST

The circular linked list is a linked list where all nodes are connected to form a circle. There is no NULL at the end

Head

| A | | → | B | | → | C | |

↑ data ↑ next