

Linked List



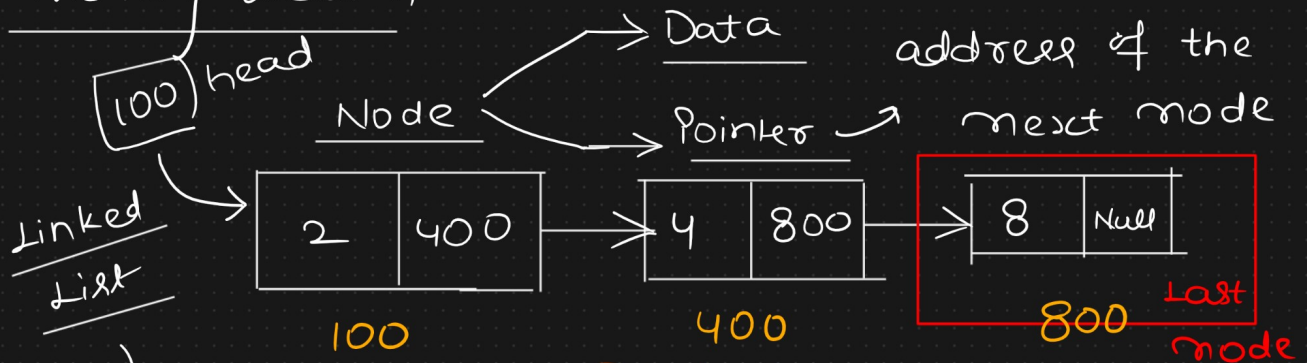
Linear data structure

Array
↓

0	1	2	3	4	5
2	4	8	12	14	19
100	104	108	112		

int = 4 Bytes

contiguous
memory location



Linked List

↓
Not storing
data

in a contiguous
memory location

Pointers
head

to store the
address of
first node

tail → stores the

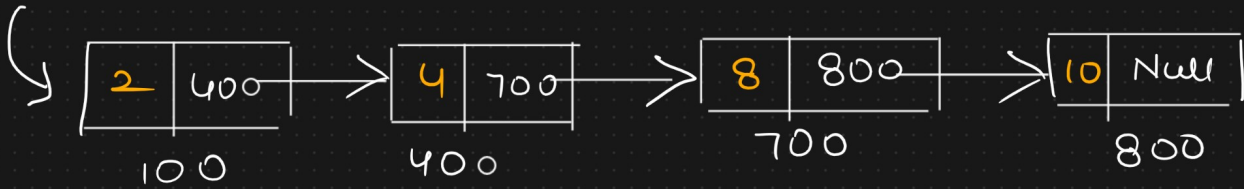
address of

last node

Types

100 head

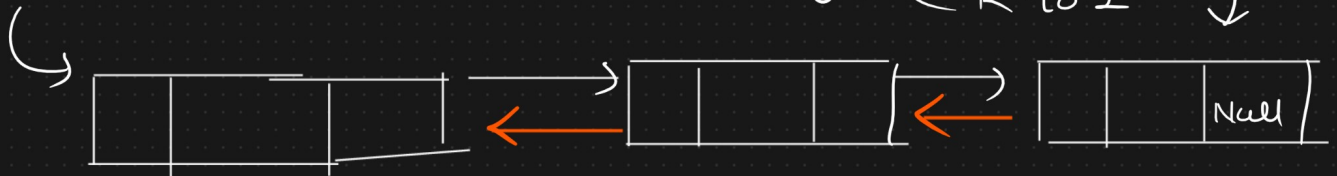
1) Singly Linked List



2) Doubly Linked List

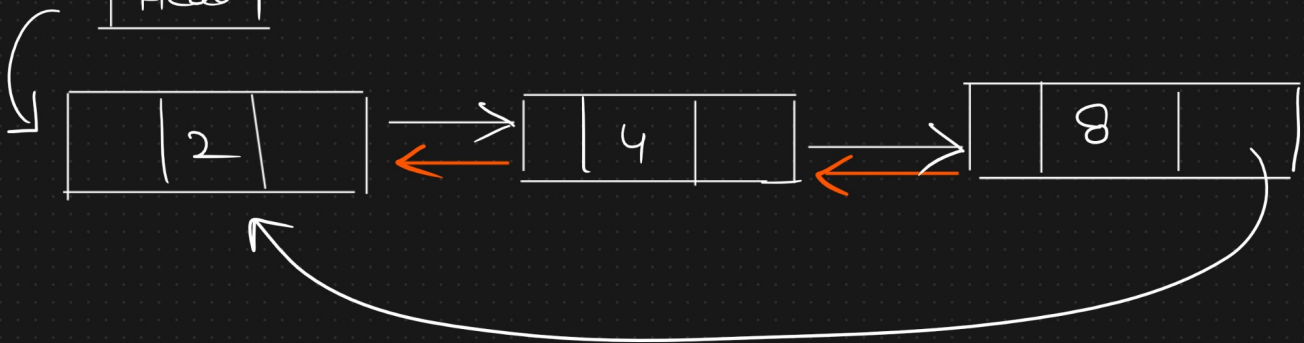
HEAD

(2 Pointers in a node)
(Two ways) $\begin{cases} \text{L to R} \\ \text{R to L} \end{cases}$ Last node

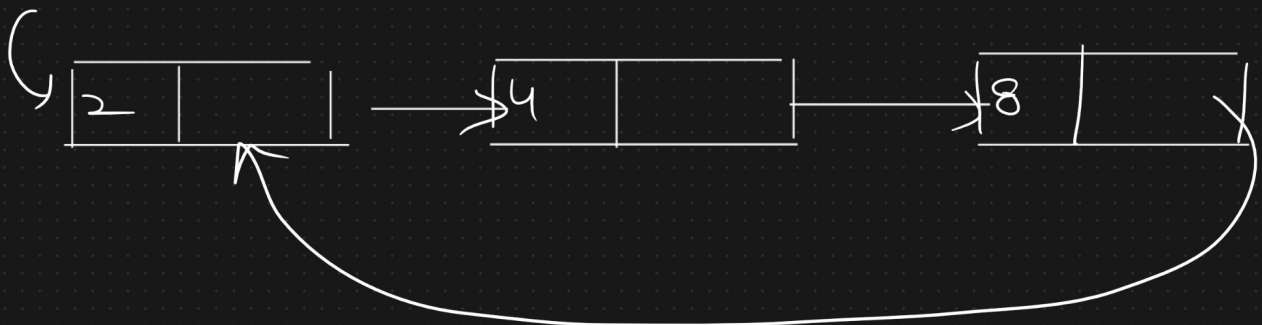


3) Circular Linked List

Head



Head



Real time application

↳ spotify