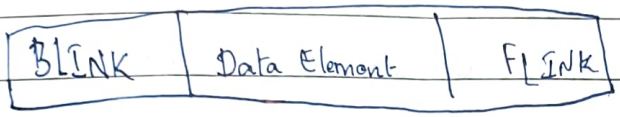
Doubly Linked List

Each node contains 2 links.

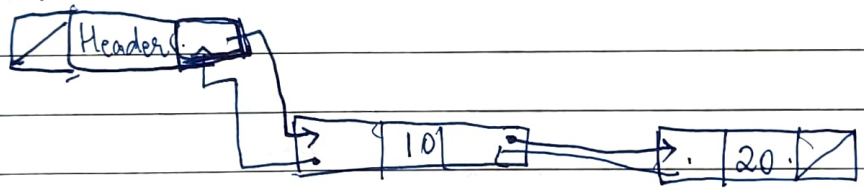
↳ BLINK

↳ FLINK.




```
Struct Node {
    Int Element;
    Struct Node * FLINK;
    Struct Node * BLINK;
}
```

Ex :-



Operations of DLL :-

* Structure Declaration.
* Inserting an Element.
* Deleting an Element.

Features of DDL :

↳ Advantages

* Deletion operation is easier.
* Finding the predecessor & Successor node is easier.

↳ Disadvantages

* Consumes more memory space.

Circularly Linked list. (CLL)

* The pointer of last node → first node.

* Implemented in 2 ways.
  - ↳ Singly linked list
  - ↳ Doubly linked list with/without headers.

Singly linked circular list
- ↳ last node → First node

Doubly linked circular list
- ↳ last node → First node - (FLINK)
- ↳ First node → last node - (BLINK)

Advantages :-
- ↳ Allows to traverse the list.
- ↳ Allows Quick Access to first & last record.
- ↳ DLL allows to traverse list in any direction.

Applications of Linked list
- ↳ Polynomial Manipulation.
- ↳ Radix Sort
- ↳ Multi. list.