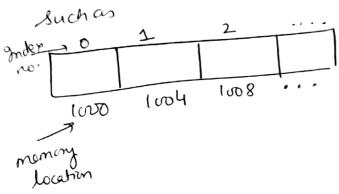
Array VS LINK UST

Arxeys

link list

1) Contiguous Memory Location.



1 We can directly access an element with help of its index no.

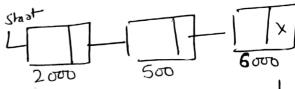
eg a[1] ander no. a is name of array

3) As in array elements are shoed at successive contiguous memony location. Therefore, We can compute the milocation of middle element.

ie In array Both linear & Binary search are possible.

@ Relatively Enpersive to insert and delete elements in an array.

O Un contiguous money location. such as



je nodes are scattered at different mency location. or you can say met nodes can be allocated any where in the memory.

3) In case of the list

we cannot directly access me 5th rule or 3 od rule

3) As list are not stored of in successive menony location. So we Cannot find the location of middle node of reformed of a list. Therefore Briany Search is not possible.

4) As elements did not ecopy adjacent space in menong soit make easier to insert & delete elements in the list.

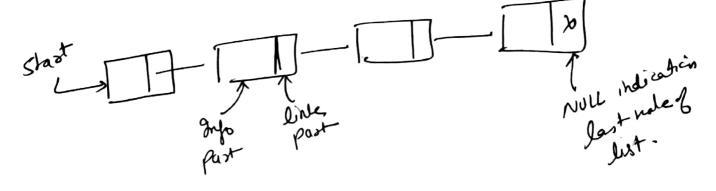
lineed list :-

- · Is a linear collection of data elements called nodes
- · Linear order is given by means of pointery.
- · Each Node is divided into two parts
- · First part: contains me information of the element.
- · Second part ;- contains the address of the next nede in the list.



- . It may contain an entire record of data itens.
 such as name, address a poice
- · Last node contains a special value called Null pointer.

 [you can use 0 or ve value to indicate NULL]
- By the first nucle in the list
- · State of the list has no nodes, such a list is called the null list or empty list.
- . Denoted by Bo Shart = NULL



- Operations:
- · Insertion
- , Deletion
- · Traversing
- . Searching
- Sorting

Considerly a small care for creatry just 2 rates I then how can we cannot them.

typedef Struct list into noll no; }) Info past Stanct list as next; (3=) Unte post I nute;

Ly Now mis will act as a data yese of Struct list type.

main () nule se stast, septer, se temp? pto = (nute to) melloc (size of hade)); The part Strepy (ptr -> rame, "Anil"). Anil 10 NULL pto - next = NULL >

