

# YOUTUBE

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## Make it Easy # Data Structures

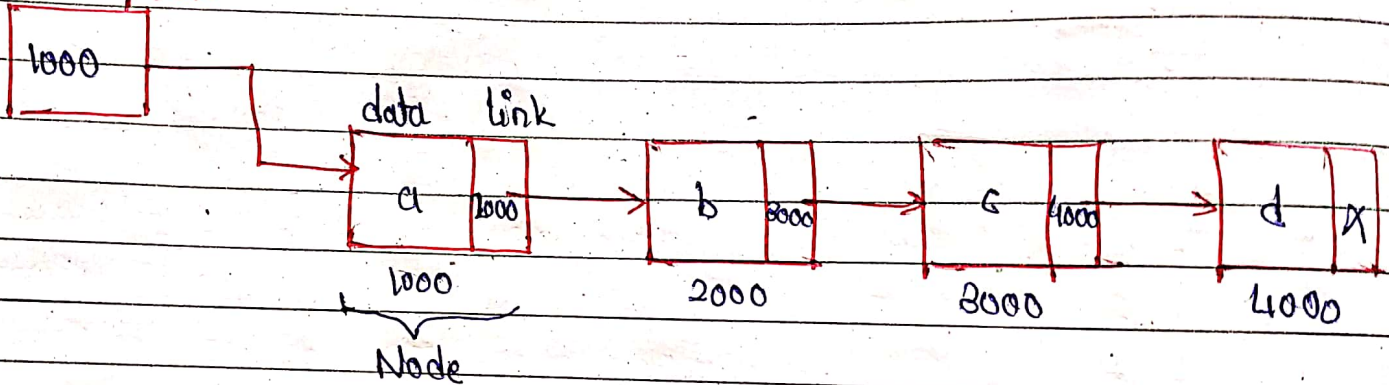
### ① Video - 01 : Linked List Introduction

Linked list : ~~\*~~ Linked list / one way link list is a linear collection of data items.

~~\*~~ Each element is separate object

~~\*~~ Not stored at contiguous location each elements using pointer.

Start/head



### Array vs Linked List :

① An array is the data structure that contains a collection of similar type data elements whereas the linked list is considered as non-primitive data structure as it contains a collection of unordered linked elements known as nodes.

② In array the elements belong to index but in a linked list it contains start/head and nodes and traversing needs to be done to access element from the



- ③ Accessing an element in an array is fast while in case of LL it takes time and thus it is bit slower.
- ④ Operation such as insertion deletion is quite easy in case of Linklist.
- ⑤ In an array memory is assigned during compile time while in a LL it is allocated during execution or runtime.
- ⑥ Elements are stored consecutively in array whereas it is stored randomly in LL.
- ⑦ In array we can access any elements sequentially starting using its index while in case of LL we have to access elements starting from the first node. So we cannot do binary search.
- ⑧ Extra memory space for a pointer is required with each element of the list.