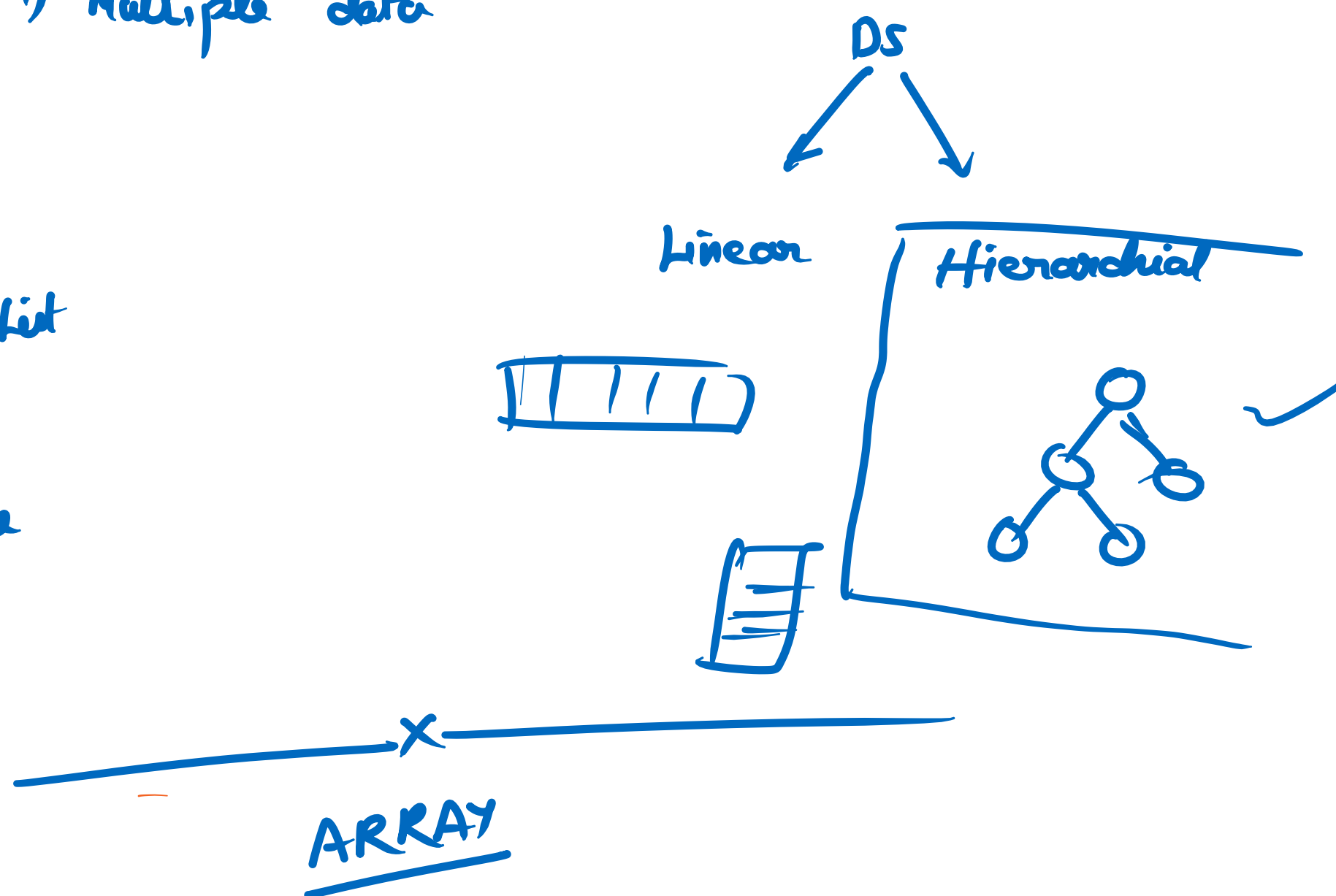


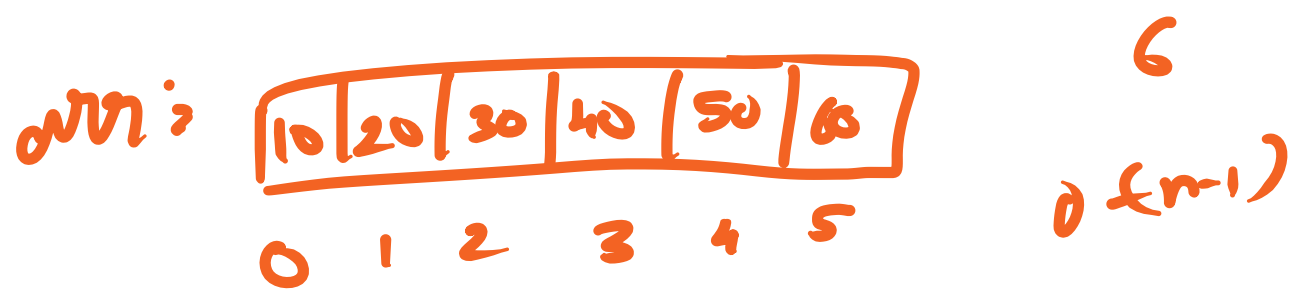
## Data Structures

1) Multiple data

- 1) Array
- 2) Linked List
- 3) Stack
- 4) Queue



- 1) Linear data structure
- 2) Not dynamic  $\rightarrow$  Fixed size
- 3) Same datatype
- 4) Random Access - Index

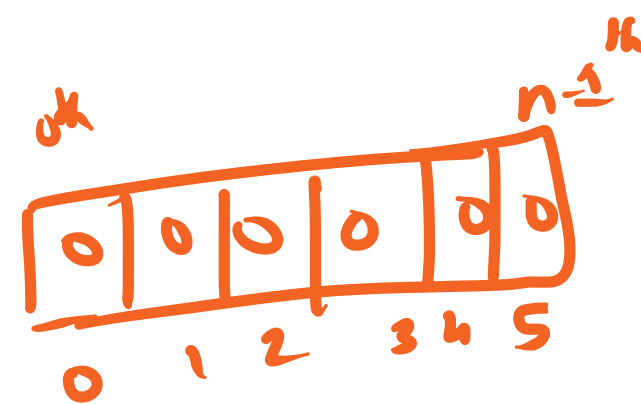


arr[4]  $\Rightarrow$  50  
↑  
index

5<sup>th</sup>  $\rightarrow$  (5-1)<sup>th</sup> index  
 $\Rightarrow$  4<sup>th</sup> index

int arr[] = {10, 20, 30, 40, 50, 60};

int arr[] = new int[6];



Loops

size = n = 6

Index = 0 - (6-1)  
= 0 - 5