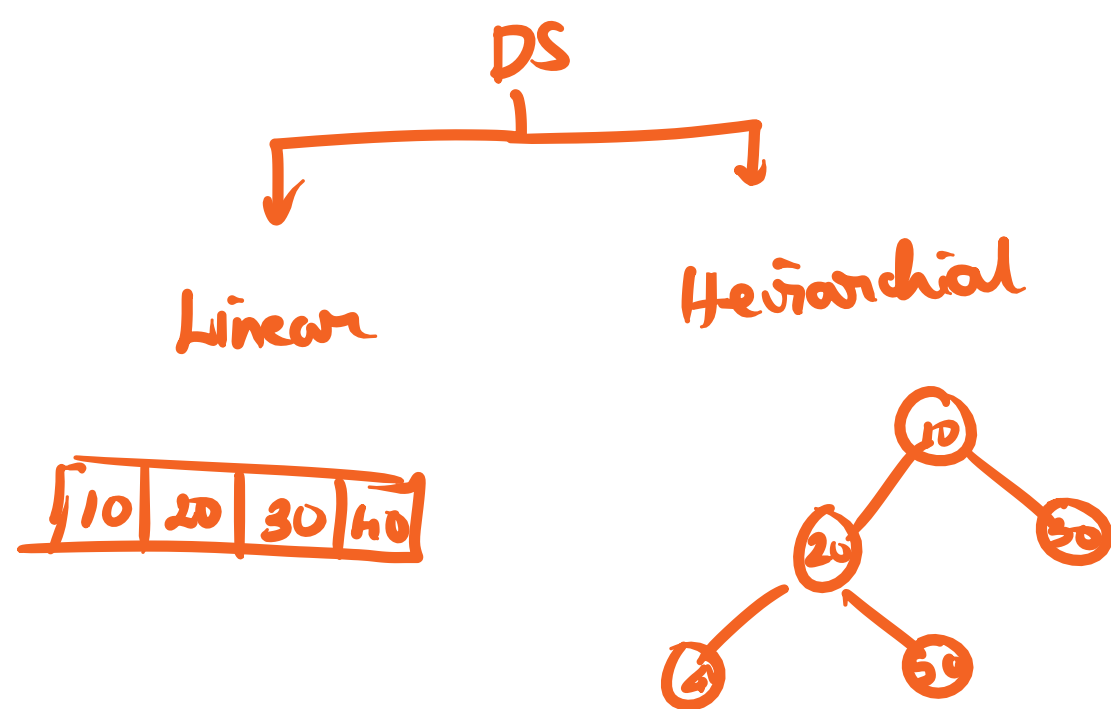


## Data Structures

Variables → placeholder → "Name" → name String

names = "Name 1" "Name 2" "Name 3"

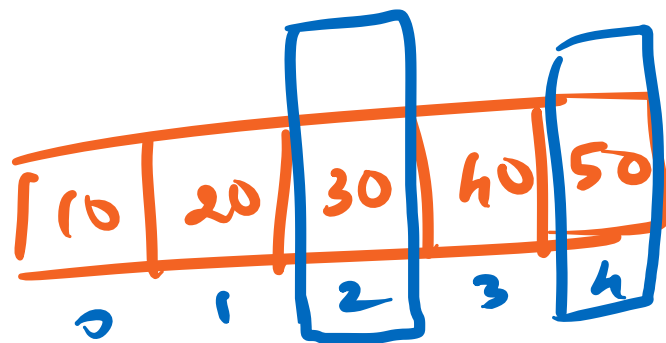
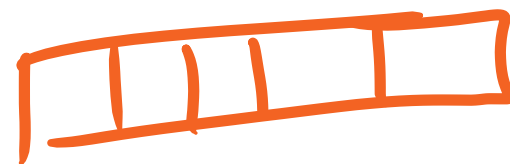


- 1) Array
- 2) LinkedList
- 3) Stack
- 4) Queue

### Array



- 1) Linear
- 2) Same datatype
- 3) Not dynamic → does not grow in size
- 4) Random access → index / indices



3<sup>rd</sup> element → 2<sup>nd</sup> index

5<sup>th</sup> element

n → length of array

index: 0 → n-1

0 → 4