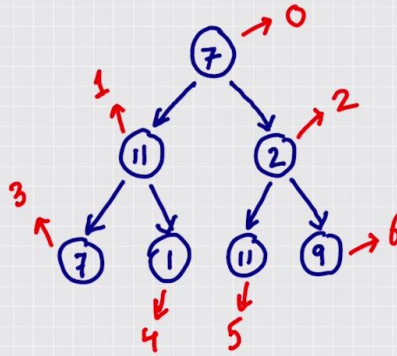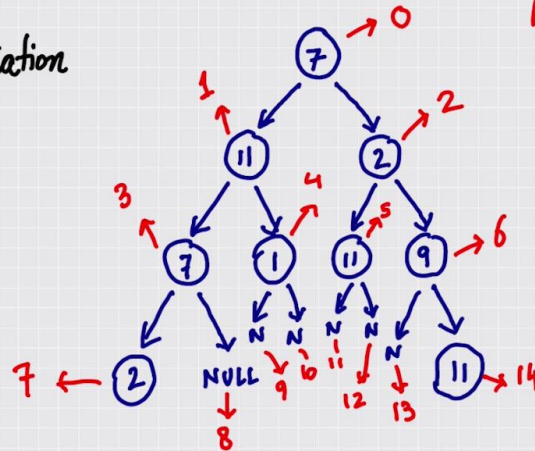# Representation of a Binary Tree

① Array Representation

Representation of a Binary Tree

① Array Representation

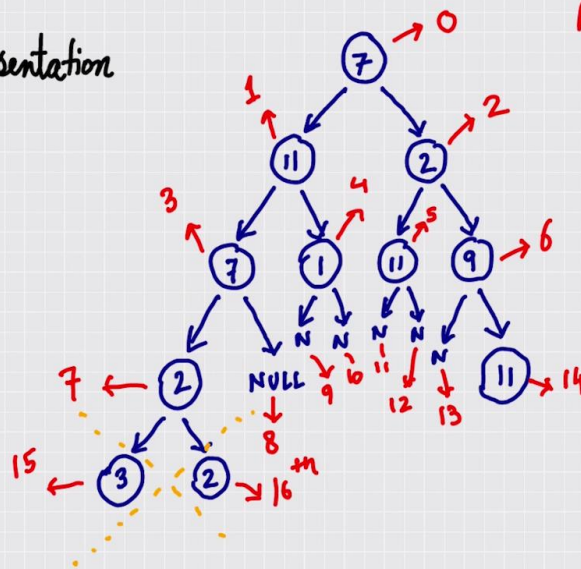| 0	1	2	3	4 ... 8
7	11	2	7	

Arr →

Size → 15
Array is needed
to store this tree!

Representation of a Binary Tree
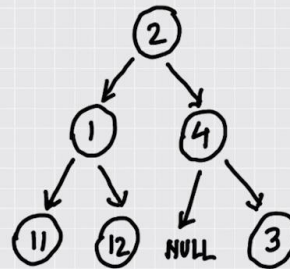
① Array Representation

Arr → | 7 | 11 | 2 | 7 | |
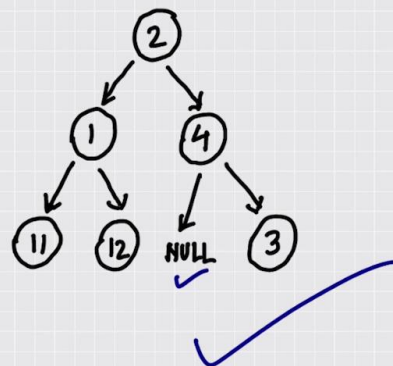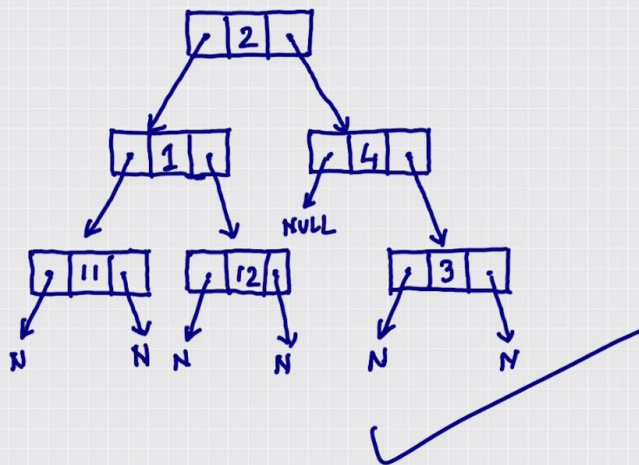indices: 0 1 2 3 4 ... 8

Size → 15 ✓
Array is needed
to store this tree!

It is k/a "Linked Representation" not Linked List Representation because Linked list is in form a list i.e. straight line but here it is not in straight line
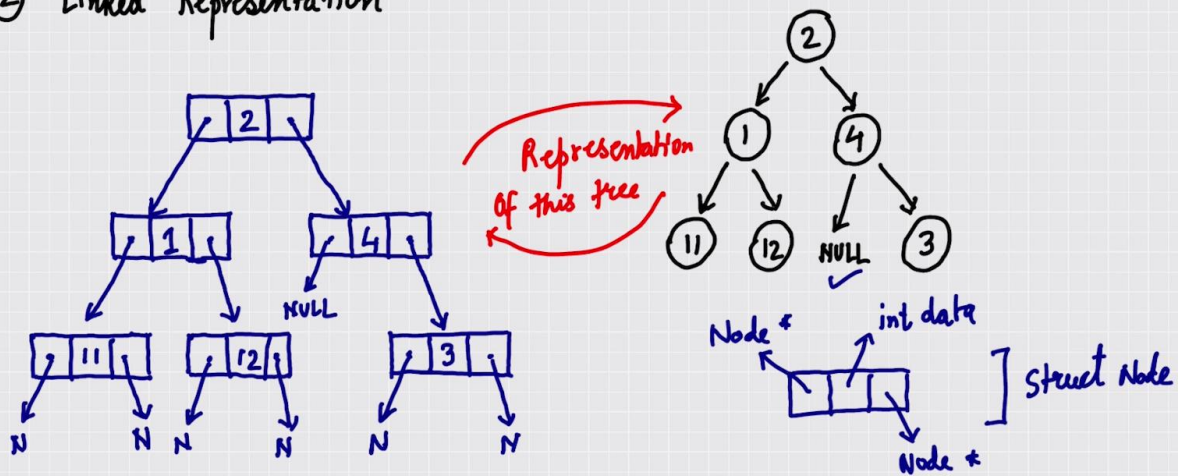

② Linked Representation

Linked list

② Linked Representation

② Linked Representation

Struct node {
    int data;
    Struct node* left;
    Struct node* right;
    };

⟶ Structure of a node in C language