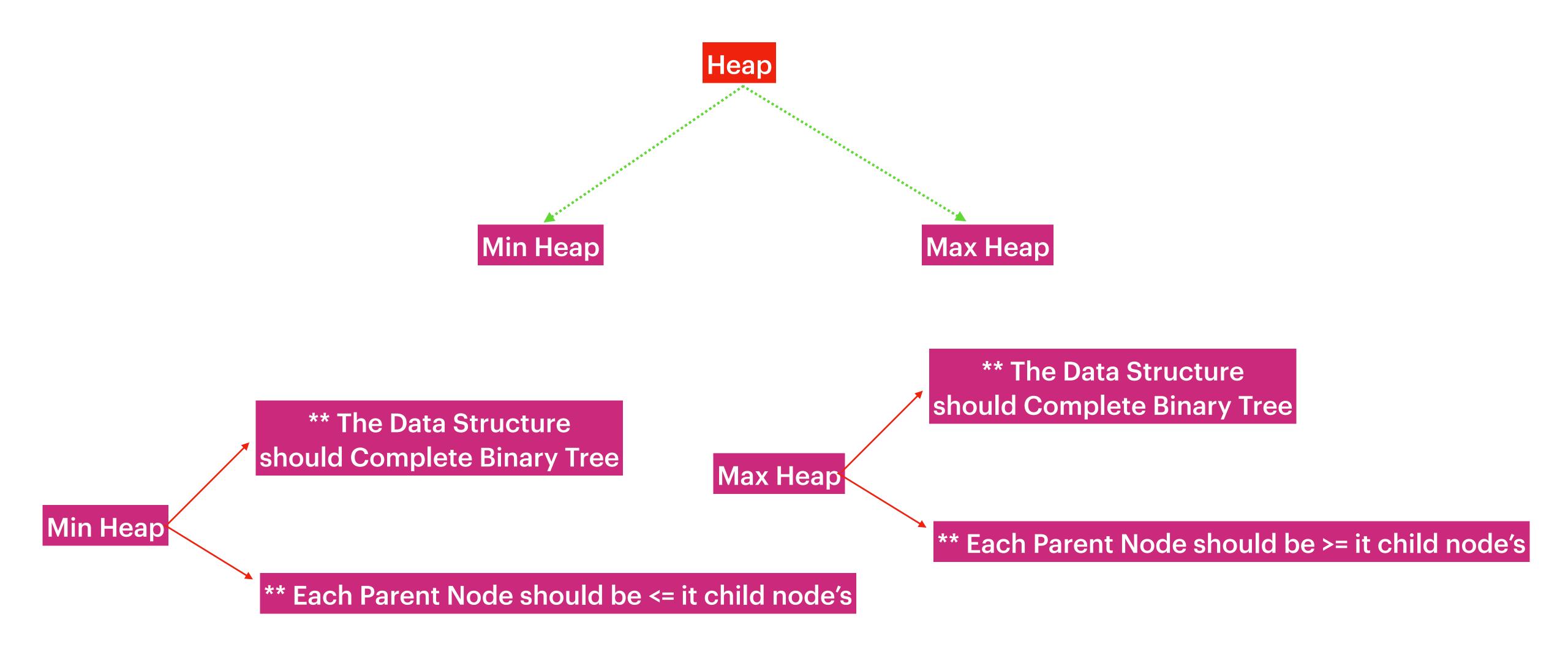
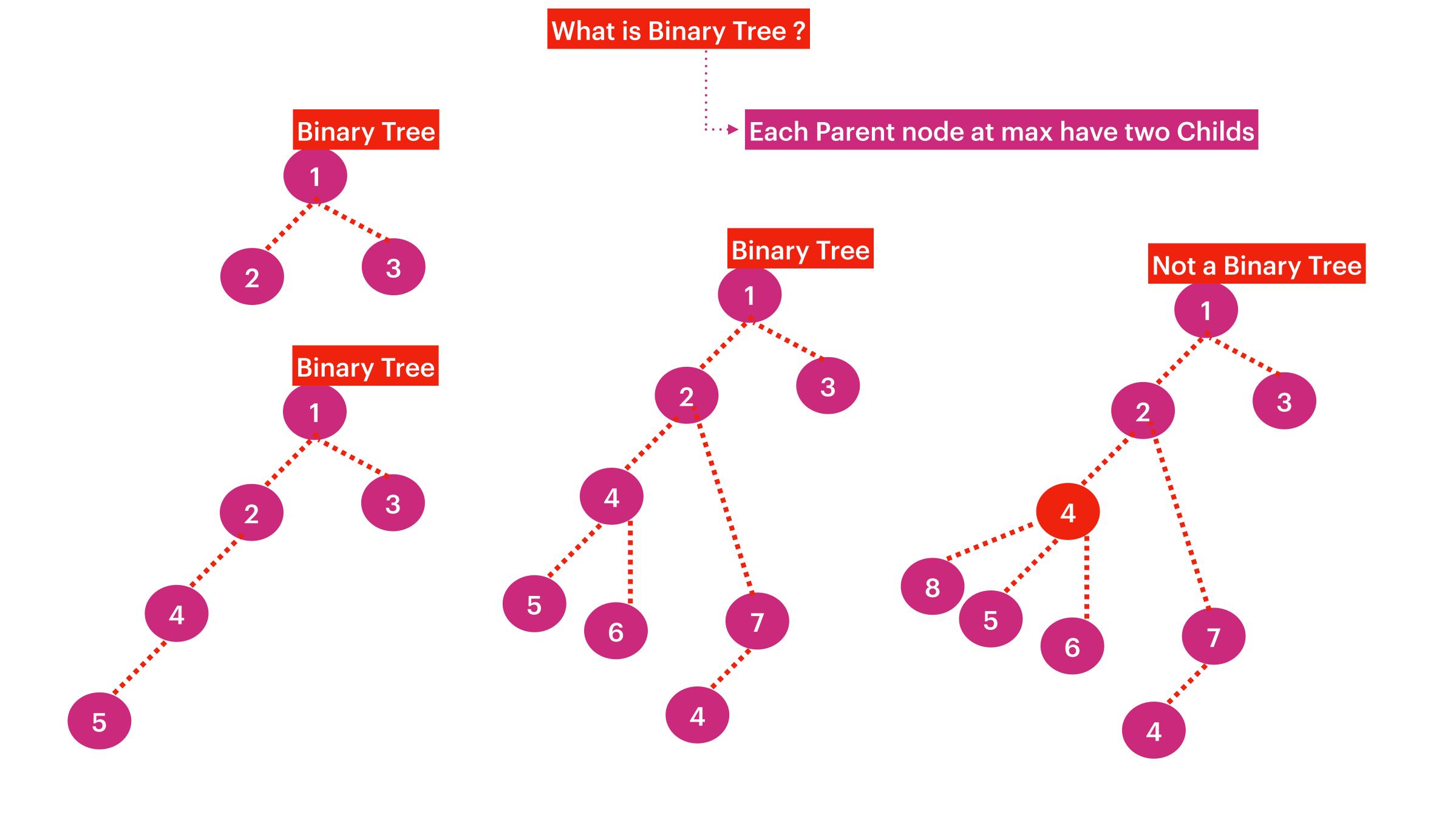
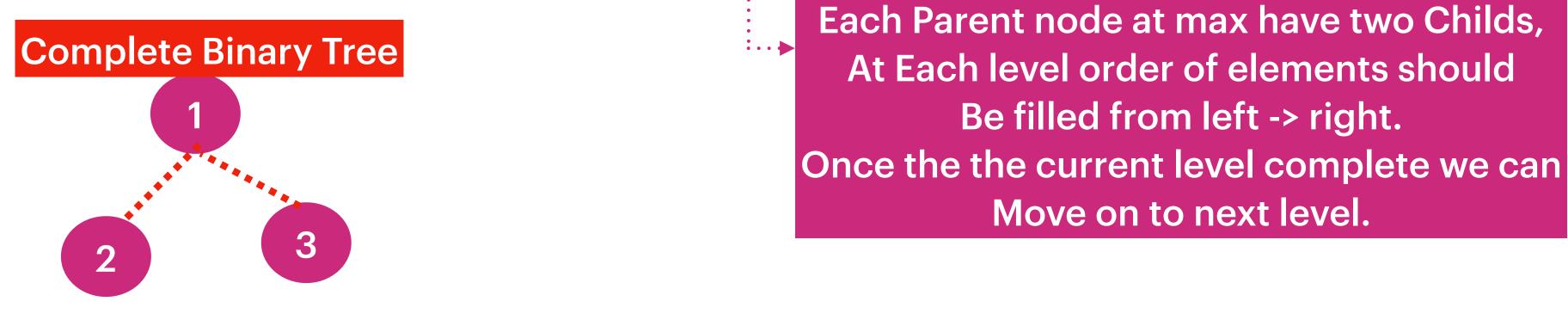
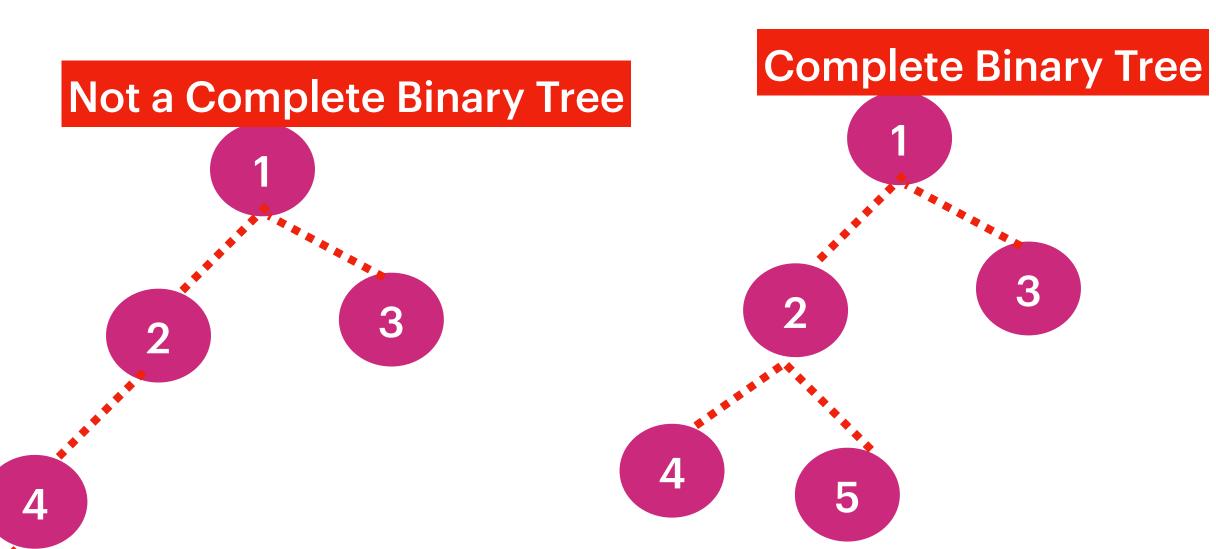
Let's Understand Heap Before moving on to weighted Graphs

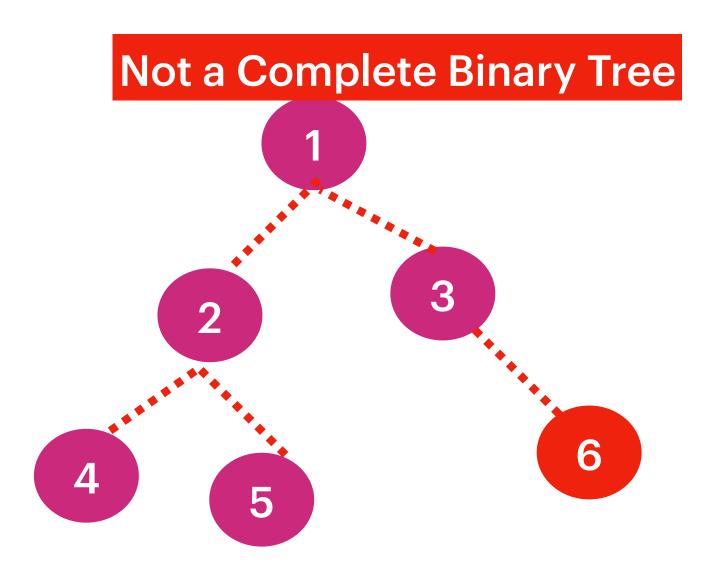




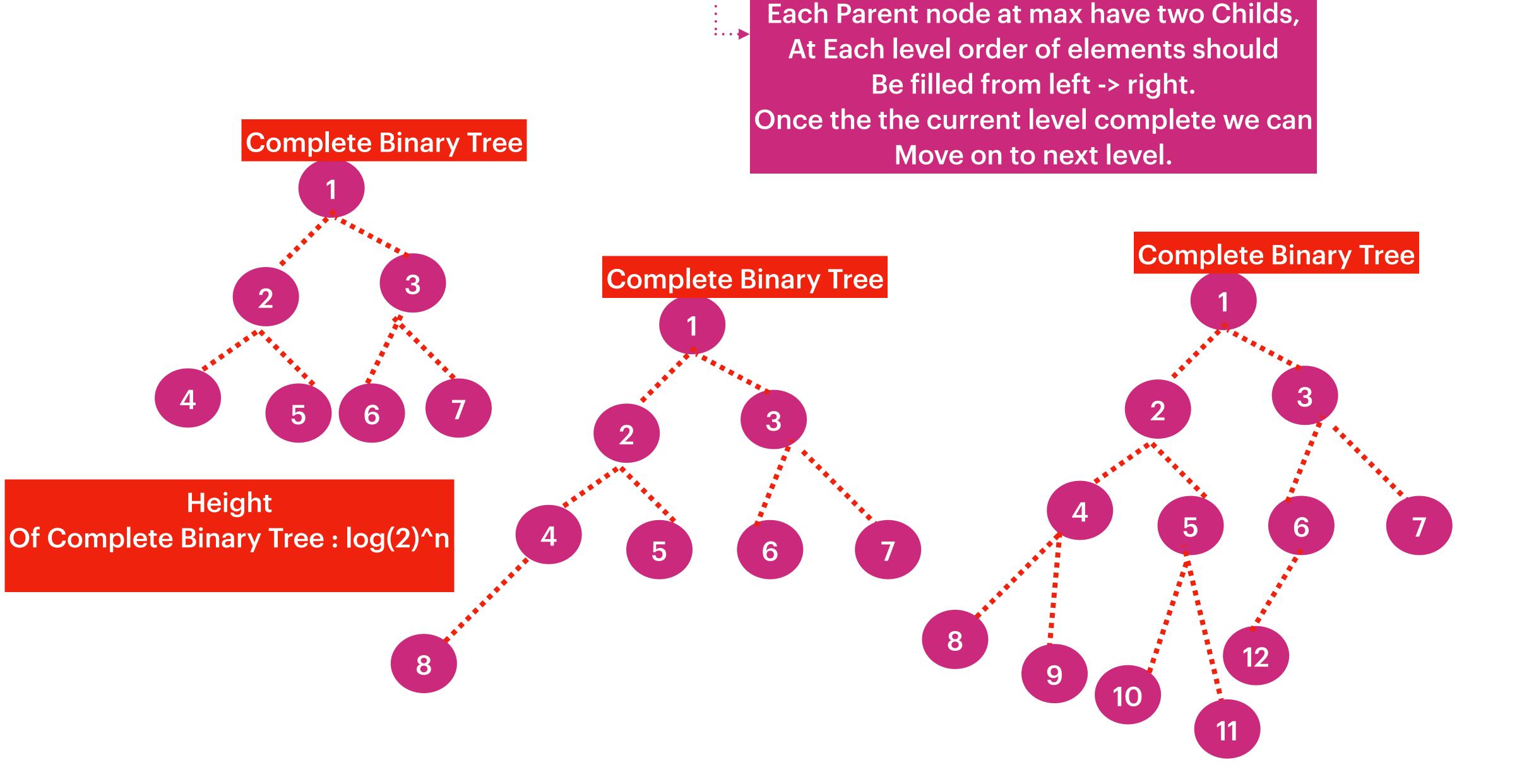
What is Complete Binary Tree?



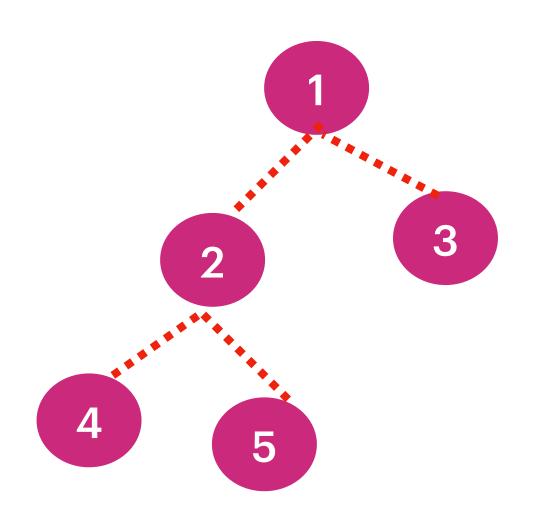




What is Complete Binary Tree?



Complete Binary Tree

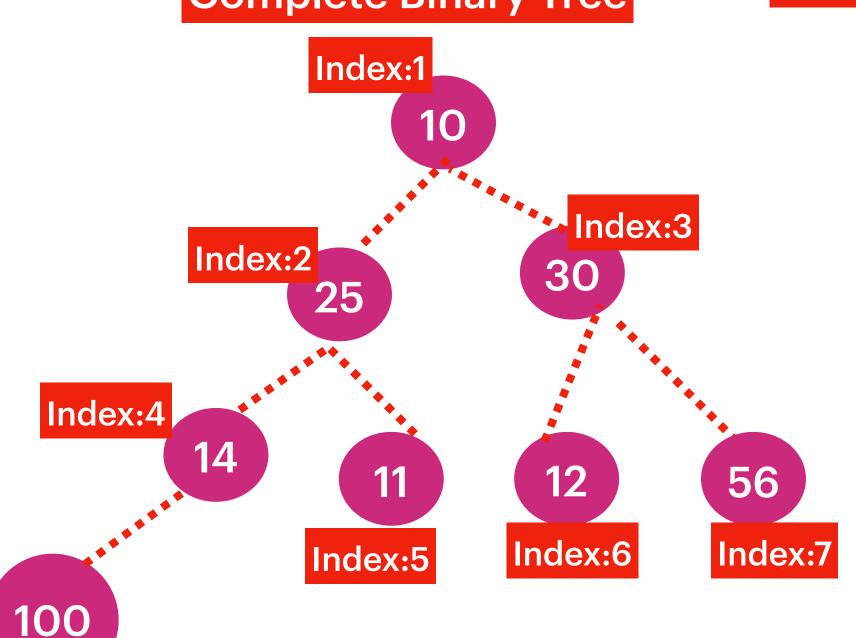




Height: 3 ~ log(2)^n

Complete Binary Tree

Transform Complete Binary Tree to the Hash/Array



How to you find parent?

How do you find left & right child?

How do you know that current element is a leaf Node?

Ex: Left Child of Element 30 = 2 * index:3 = index:6 = 12 Right Child of Element 30 = 2 * index:3 + 1 = index:7 = 56

Parent = index/2;

Index:8

Ex: Parent Of 25 = 2/2 = index:1 = 10

How do you know that current element is a leaf Node?

LeafNode:index > size/2

11

Index:5

12

Index:6

56

Index:7

100

Index:8

