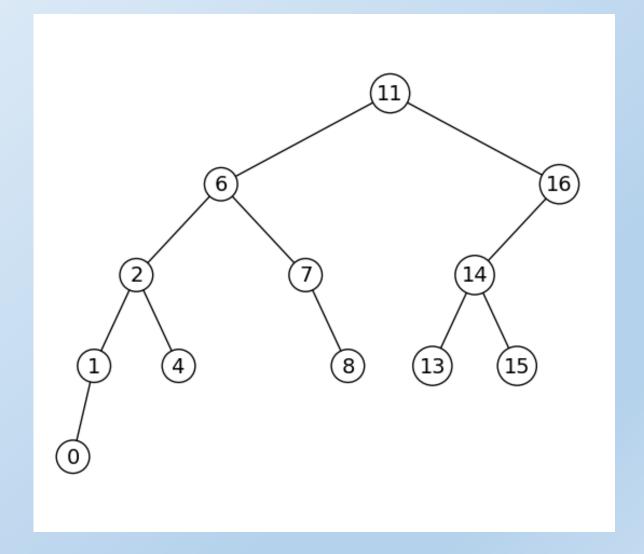
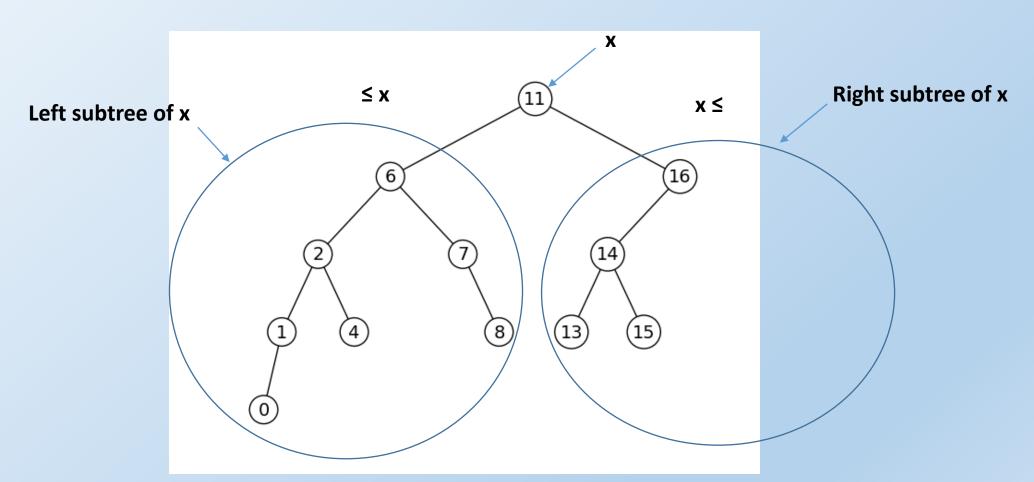
Binary Search Trees

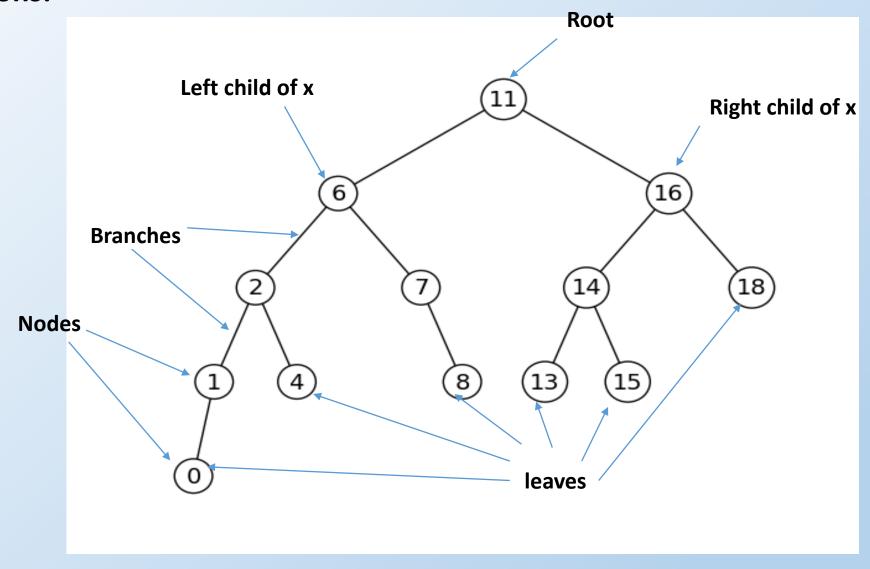


Definitions:

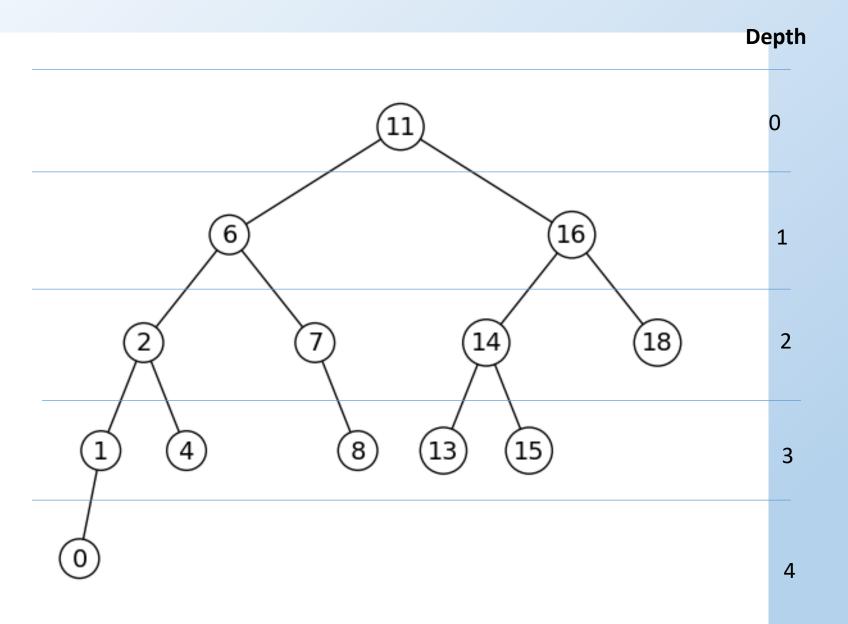
A binary search tree is a rooted tree where the following property applies to every node x: Every item stored in the left subtree of x is less or equal to the item stored in x Every item stored in the right subtree of x is greater or equal to the item stored in x



Definitions:



```
class BSTNode:
  # Constructor
                                                                 T.root
  def init (self, data, left=None, right=None):
                                                                       T.size=13
        self.data = data
        self.left = left
        self.right = right
                                                                  T.root.data=11
class BST:
                                                                          T.root.right
  # Constructor
                                         T.root.left
  def init (self):
        self.root = None
        self.size = 0
                                                            (8)
```



The **height** of the tree is the depth of the deepest node in the tree (4 in this example)