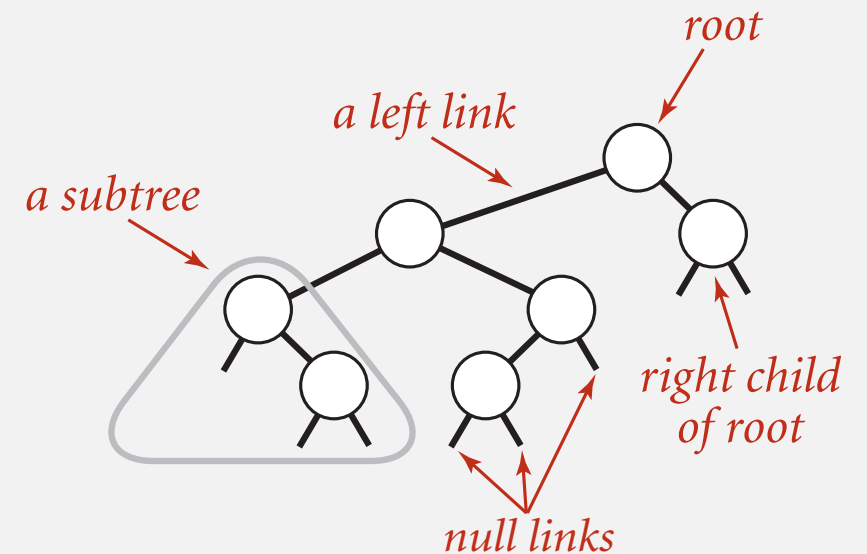


# Binary search trees

**Definition.** A BST is a **binary tree** in **symmetric order**.

A binary tree is either:

- Empty.
- Two disjoint binary trees (left and right).



**Symmetric order.** Each node has a key, and every node's key is:

- Larger than all keys in its left subtree.
- Smaller than all keys in its right subtree.

