

#### **Balanced Binary Search Trees (BBSTs)**

# **Learning Objectives**

- Define Balance of a Node
- 2. Evaluate whether a tree is balanced or not
- 3. Perform Simple Rotations on a Tree

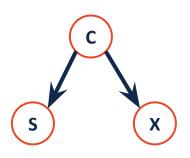
## **Motivation**

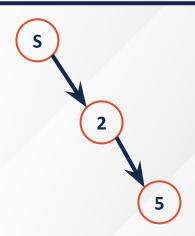
#### **Binary Search Trees**

- Find
- Insert
- Remove



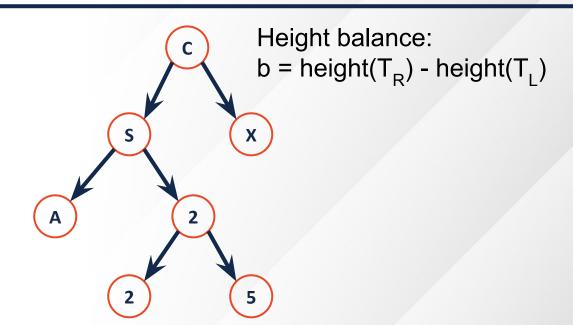
# Balanced







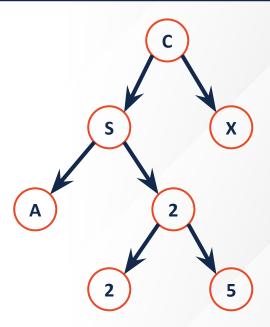
## **Balanced**





### **Tree Balanced**

A tree is height balanced if: |b| <= 1





## **BST Rotation**

1. BST Property

2. Changes sticks into mountains



