

Deadline: 22nd Nov 2022

[Recover Binary Search Tree](#)

You are given the `root` of a binary search tree (BST), where the values of exactly two nodes of the tree were swapped by mistake. *Recover the tree without changing its structure.*

Examples:

Input: `root = [1,3, null, null,2]`

Output: `[3,1, null, null,2]`

Explanation: 3 cannot be a left child of 1 because $3 > 1$. Swapping 1 and 3 makes the BST valid.

[Lowest Common Ancestor of a Binary Search Tree](#)

Given a binary search tree (BST), find the lowest common ancestor (LCA) node of two given nodes in the BST.

According to the [definition of LCA on Wikipedia](#): “The lowest common ancestor is defined between two nodes `p` and `q` as the lowest node in `T` that has both `p` and `q` as descendants (where we allow a node to be a descendant of itself).”

Examples:

Input: `root = [6,2,8,0,4,7,9,null,null,3,5], p = 2, q = 8`

Output: 6

Explanation: The LCA of nodes 2 and 8 is 6.