

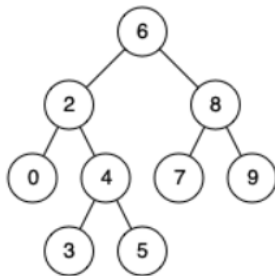
## 235. Lowest Common Ancestor of a Binary Search Tree

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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**)."

### Example 1:

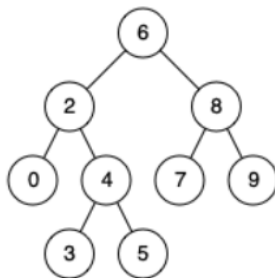


**Input:** root = [6,2,8,0,4,7,9,null,null,3,5], p = 2, q = 8

**Output:** 6

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

### Example 2:



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

**Output:** 2

**Explanation:** The LCA of nodes 2 and 4 is 2, since a node can be a descendant of itself according to the LCA definition.

### Example 3:

**Input:** root = [2,1], p = 2, q = 1

**Output:** 2

**Constraints:**

- The number of nodes in the tree is in the range  $[2, 10^5]$ .
- $-10^9 \leq \text{Node.val} \leq 10^9$
- All `Node.val` are **unique**.
- $p \neq q$
- `p` and `q` will exist in the BST.