

# Data Structures and Algorithms - Assignment 5

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1. Write recursive function to perform binary search in BST.
2. find successor of given node and return it in BST.
3. Write a function to return level/depth of given node in a BST.

## Optional

4. Write recursive functions to add and delete node into BST.
5. <https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal>
6. <https://leetcode.com/problems/merge-two-sorted-lists>
7. <https://leetcode.com/problems/reverse-linked-list>
8. <https://leetcode.com/problems/reverse-linked-list-ii>
9. <https://leetcode.com/problems/middle-of-the-linked-list>
10. <https://leetcode.com/problems/linked-list-cycle>
11. <https://leetcode.com/problems/palindrome-linked-list>