## 285. Inorder Successor in BST Add to List ▼ Question **Editorial Solution** My Submissions (/problems/inorder-successor-in-bst/submissions/) Total Submissions: 66531 Difficulty: Medium Contributors: Admin Total Accepted: 24057 Given a binary search tree and a node in it, find the in-order successor of that node in the BST. Note: If the given node has no in-order successor in the tree, return null. Hide Company Tags | Pocket Gems (/company/pocket-gems/) | Microsoft (/company/microsoft/) | Facebook (/company/facebook/) Hide Similar Problems (M) Binary Tree Inorder Traversal (/problems/binary-tree-inorder-traversal/) (M) Binary Search Tree Iterator (/problems/binary-search-tree-iterator/) Have you met this question in a real interview? Yes No Discuss (https://discuss.leetcode.com/category/355) Top Solutions Pick One (/problems/random-one-question/) □ Notes C++ C </> \* Definition for a binary tree node. 2 3 \* struct TreeNode { int val; 4 5 TreeNode \*left; TreeNode \*right; 6 7 TreeNode(int x) : val(x), left(NULL), right(NULL) {} 8 \* }; 9 10 11 //works only for BST 12 class Solution { 13 public: TreeNode\* inorderSuccessor(TreeNode\* root, TreeNode\* p) { 14 15 if(p==NULL) return NULL; 16 if(p->right!=NULL) { TreeNode\* tmp = p->right; 17 18 while(tmp->left!=NULL) tmp=tmp->left; 19 return tmp; 20 21 TreeNode\* next=NULL; 22 while(root!=NULL){ 23 if(root->val <= p->val){ 24 root = root->right; 25 26 else { 27 next = root; root = root->left; 28 29 30 31 32 return next; 33 } 34 35 }; Shortcut: Command + enter Submit Solution Submission Result: Accepted (/submissions/detail/90341852/) ② More Details > (/submissions/detail/90341852/) Next challenges: (M) House Robber III (/problems/house-robber-iii) (M) Find Leaves of Binary Tree (/problems/find-leaves-of-binary-tree) (M) Serialize and Deserialize BST (/problems/serialize-and-deserialize-bst) Share your acceptance!

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