

5944. Step-By-Step Directions From a Binary Tree Node to Another

My Submissions (/contest/weekly-contest-270/problems/step-by-step-directions-from-a-binary-tree-node-to-another/submissions/)

Back to Contest (/contest/weekly-contest-270/)

You are given the **root** of a **binary tree** with **n** nodes. Each node is uniquely assigned a value from **1** to **n**. You are also given an integer **startValue** representing the value of the start node **s**, and a different integer **destValue** representing the value of the destination node **t**.

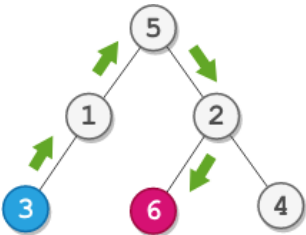
Find the **shortest path** starting from node **s** and ending at node **t**. Generate step-by-step directions of such path as a string consisting of only the **uppercase** letters **'L'**, **'R'**, and **'U'**. Each letter indicates a specific direction:

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

- 'L' means to go from a node to its **left child** node.
- 'R' means to go from a node to its **right child** node.
- 'U' means to go from a node to its **parent** node.

Return the *step-by-step directions* of the **shortest path** from node **s** to node **t**.

Example 1:



Input: root = [5,1,2,3,null,6,4], startValue = 3, destValue = 6

Output: "UURL"

Explanation: The shortest path is: 3 → 1 → 5 → 2 → 6.

Example 2:



Input: root = [2,1], startValue = 2, destValue = 1

Output: "L"

Explanation: The shortest path is: 2 → 1.

Constraints:

- The number of nodes in the tree is **n**.
- 2 ≤ n ≤ 10⁵
- 1 ≤ Node.val ≤ n
- All the values in the tree are **unique**.
- 1 ≤ startValue, destValue ≤ n
- startValue ≠ destValue

JavaScript


📄 ↺ ⚙️

```
1 /**
2  * Definition for a binary tree node.
3  * function TreeNode(val, left, right) {
4  *     this.val = (val===undefined ? 0 : val)
```

```
5  *    this.left = (left===undefined ? null : left)
6  *    this.right = (right===undefined ? null : right)
7  * }
8  */
9  /**
10 * @param {TreeNode} root
11 * @param {number} startValue
12 * @param {number} destValue
13 * @return {string}
14 */
15 var getDirections = function(root, startValue, destValue) {
16
17 };
```

☐ Custom Testcase[Use Example Testcases](#)[Run](#)[Submit](#)

Copyright © 2021 LeetCode

[Help Center \(/support\)](#) | [Jobs \(/jobs\)](#) | [Bug Bounty \(/bugbounty\)](#) | [Online Interview \(/interview/\)](#) | [Students \(/student\)](#) | [Terms \(/terms\)](#) | [Privacy Policy \(/privacy\)](#) [United States \(/region\)](#)