```
#include <stdlib.h>
// Definition for a binary tree node.
struct TreeNode* mergeTrees(struct TreeNode* root1, struct TreeNode* root2) {
  if (root1 == NULL) return root2;
  if (root2 == NULL) return root1;
  // Merge the current nodes
  struct TreeNode* merged = (struct TreeNode*)malloc(sizeof(struct TreeNode));
  merged->val = root1->val + root2->val;
  // Recur for left subtree
  merged->left = mergeTrees(root1->left, root2->left);
  // Recur for right subtree
  merged->right = mergeTrees(root1->right, root2->right);
  return merged;
```

