

Binary Search Tree : Lowest Common Ancestor

You are given pointer to the root of the binary search tree and two values v_1 and v_2 . You need to return the lowest common ancestor (LCA) of v_1 and v_2 in the binary search tree. You only need to complete the function.

Input Format

You are given a function,

```
node * lca (node * root ,int v1,int v2) {  
  
}
```

It is guaranteed that v1 and v2 are present in the tree.

Node is defined as :

```
struct node  
{  
    int data;  
    node * left;  
    node * right;  
}node;
```

Output Format

Return the LCA of v_1 and v_2 .

Sample Input

```
    4  
   / \  
  2   7  
 / \  
1  3 6
```

$v_1 = 1$ and $v_2 = 7$.

Sample Output

LCA of **1** and **7** is **4** (which is the root).
Return a pointer to the root in this case.