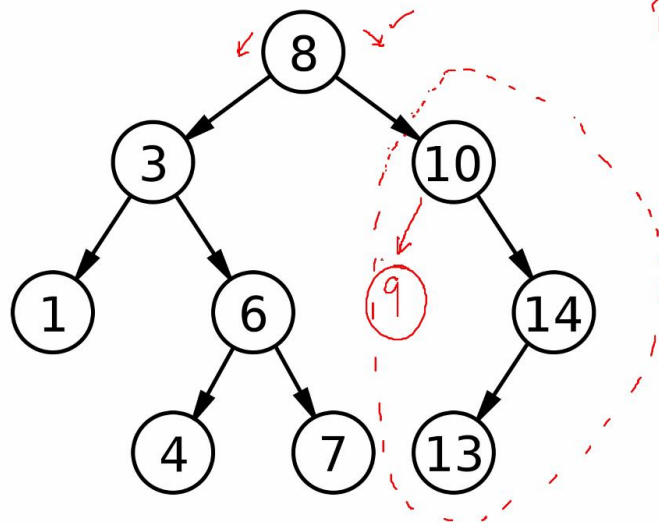


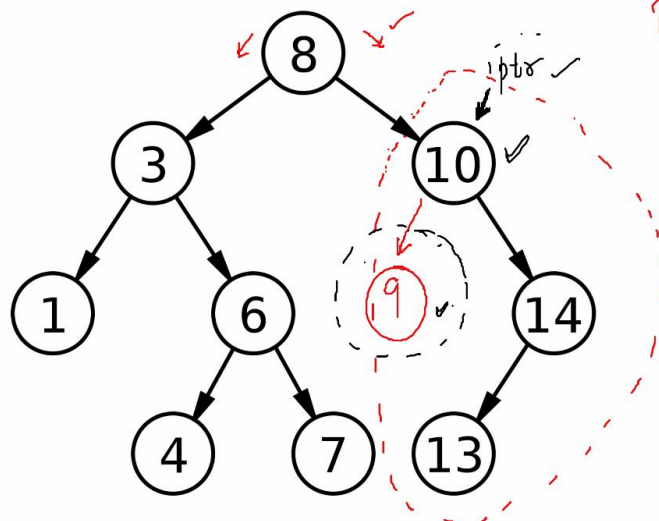
## Insertion in a Binary Search Tree



BST → NO Duplicates!

Insert 9

## Insertion in a Binary Search Tree

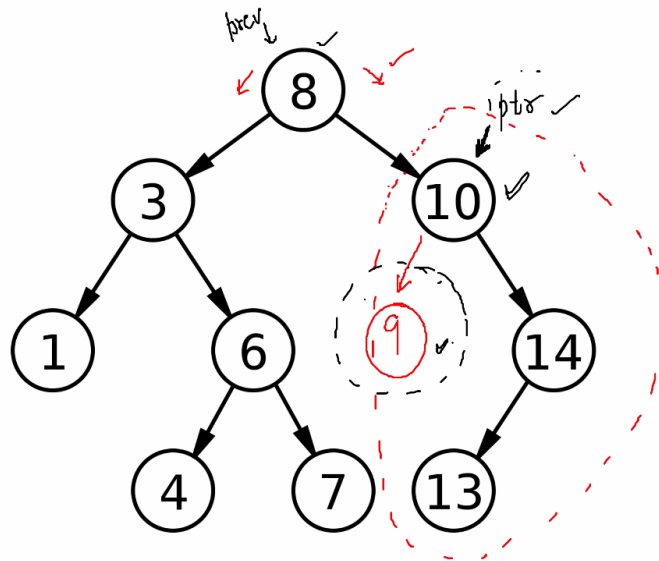


BST → NO Duplicates!

Insert 9

$no = malloc(\dots)$   
 $no \rightarrow data = key;$   
 $no \rightarrow left = NULL$   
 $no \rightarrow right = NULL$   
 Comparisons.

## Insertion in a Binary Search Tree



```

Void Insert (Node* root, int key) {
    Node* prev = NULL;
    Node* ptr;
    while (root != NULL) {
        prev = root;
        if (key == root->data)
            return;
        else if (key < root->data)
            root = root->left;
        else
            root = root->right;
    }
    // Link the nodes
}
    
```