Find a node in a Binary Search Tree

```
Node *& find(KType key, Node *& r) {
  if (r == NULL) return r;
  if (key < r->key)
    return find(key, r->left);
  if (key > r->key)
    return find(key, r->right);
  return r;
}
```

Insert into a Binary Search Tree

```
void insert(KType key, Node *& root) {
  Node *& target = find(key, root);
  if( target != NULL) {
    cerr << "Duplicate:" << key << "\n";
  }
  target = new Node(key);
}</pre>
```

Find node with minimum key in BST

```
Node *& findMin(Node *& root) {
  if( root == NULL || root->left == NULL )
    return root;
  return findMin(root->left);
}
```

Remove a node from a Binary Search Tree

```
void remove(KType key, Node *& root) {
 Node *& handle = find(key, root);
 if (handle == NULL) return;
 Node * toDelete = handle;
 if (handle->left == NULL) {// Leaf or only right child
   handle = handle->right;
 } else if (handle->right == NULL) { // Only left child
   handle = handle->left;
 } else { // Two children
   Node *& succ = findMin(handle->right);
   handle->key = succ->key;
   toDelete = succ;
   succ = succ->right;  // succ has no left child
 delete toDelete;
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