



Tree Traversals

Learning Objectives

1. Understand what a tree traversal is
2. Implement Tree Traversals



`::begin`

`::end`

`ArrayIterator(0)`

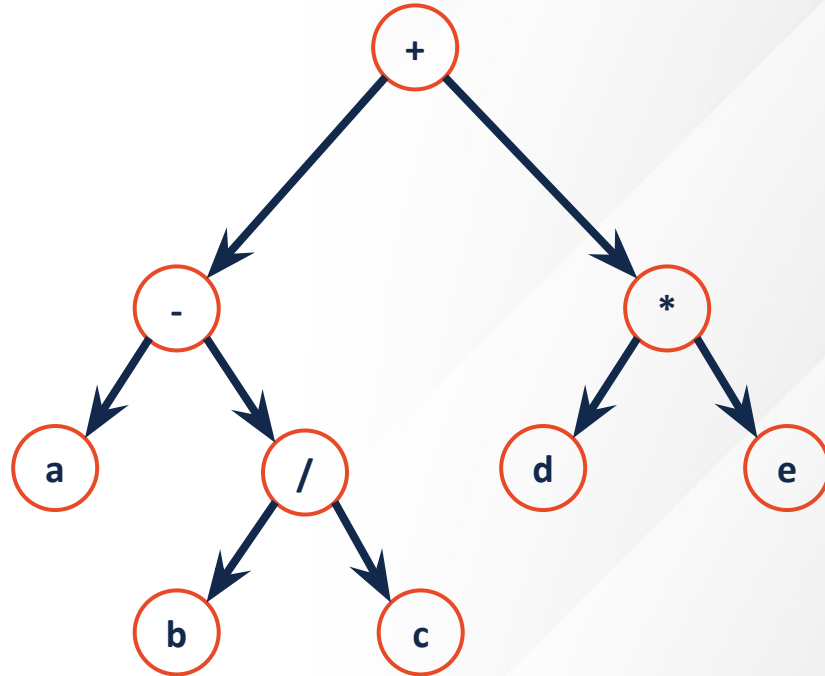
`ArrayIterator(size_)`

`ListIterator(head_)`

`ListIterator(nullptr)`



Accessing all nodes



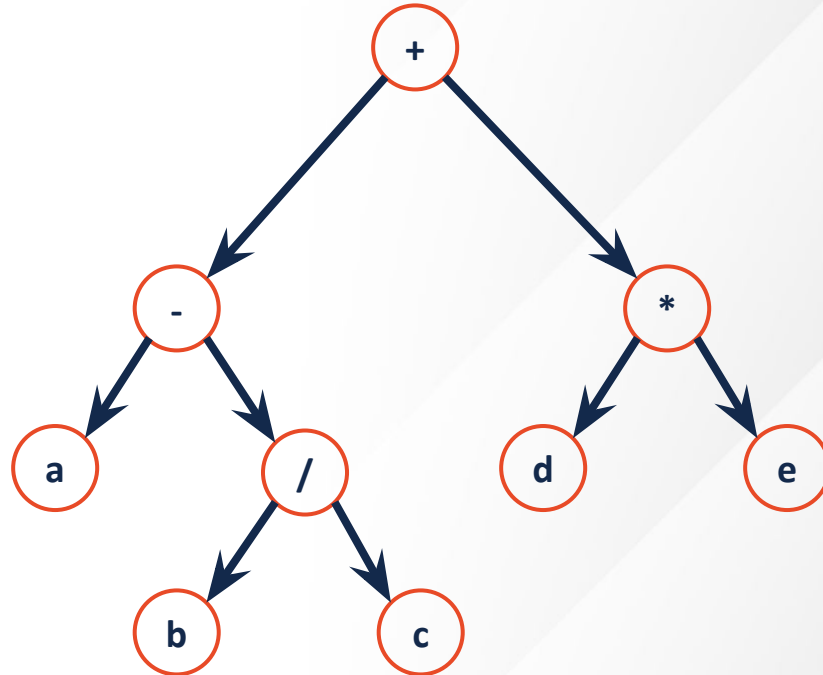
Types of Traversals

InOrder

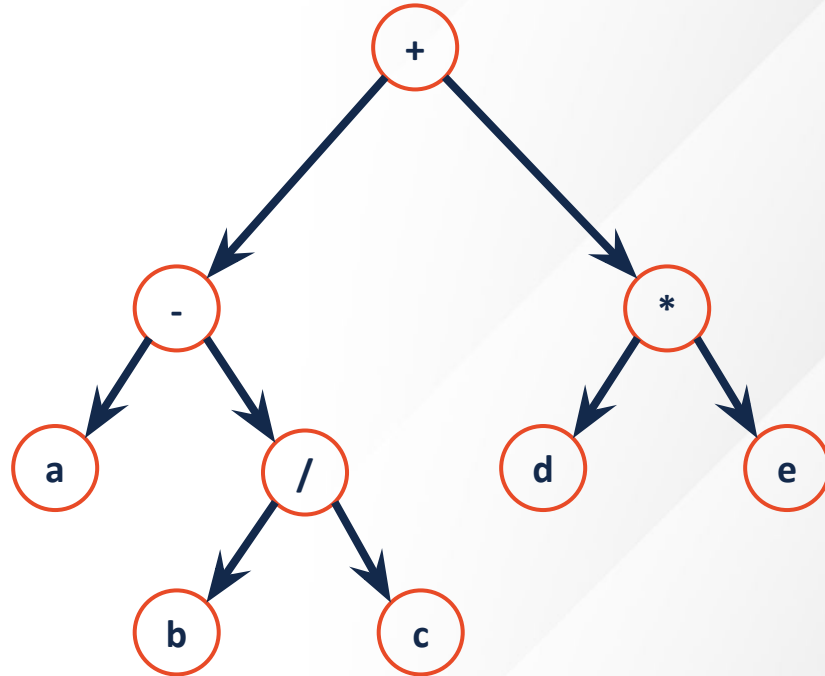
PreOrder

PostOrder

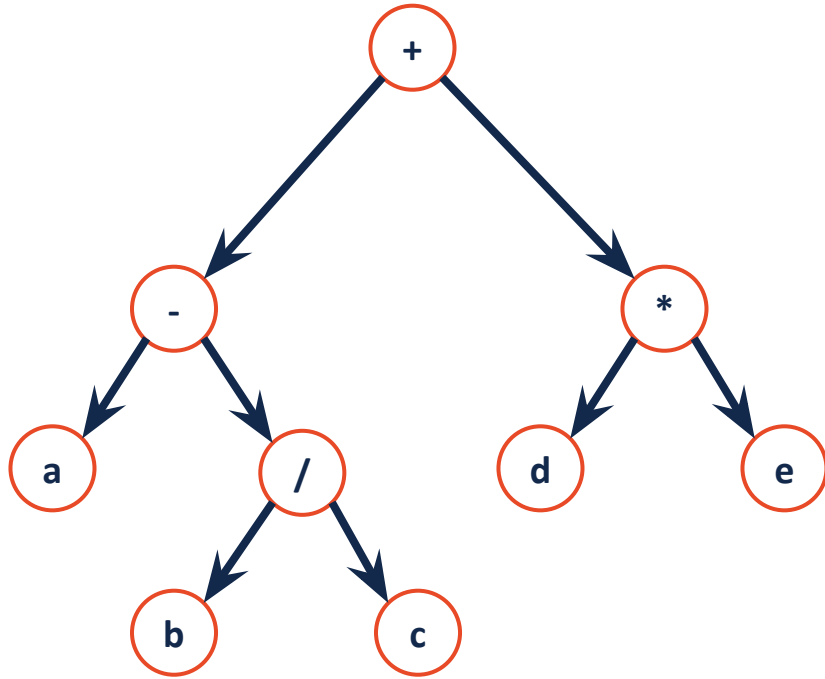
LevelOrder



Inorder Traversal



Inorder Traversal



```
49 template<class T>
50 void BinaryTree<T>::InOrder(TreeNode * cur) {
51     if (cur != NULL) {
52
53         InOrder(cur->left);
54
55         std::cout << cur->data << std::endl;
56
57         InOrder(cur->right);
58     }
59 }
```