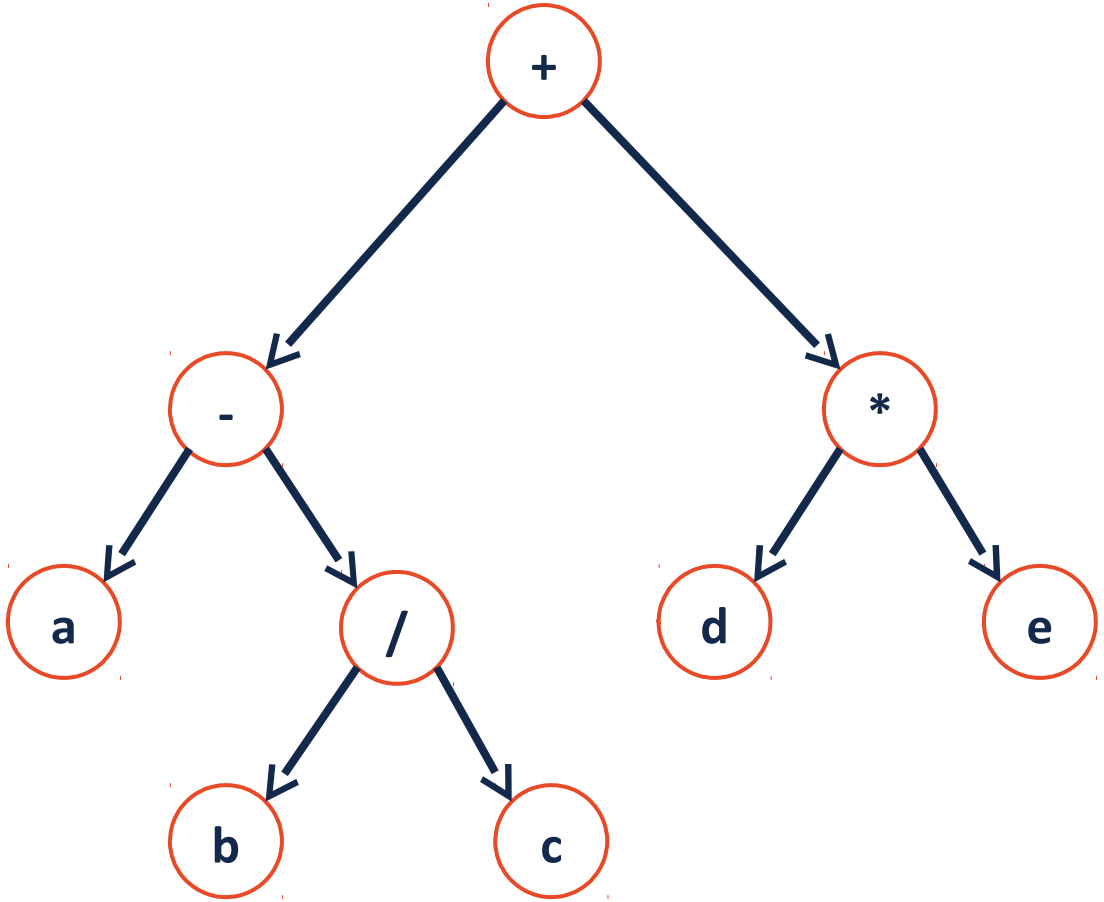
CS 400

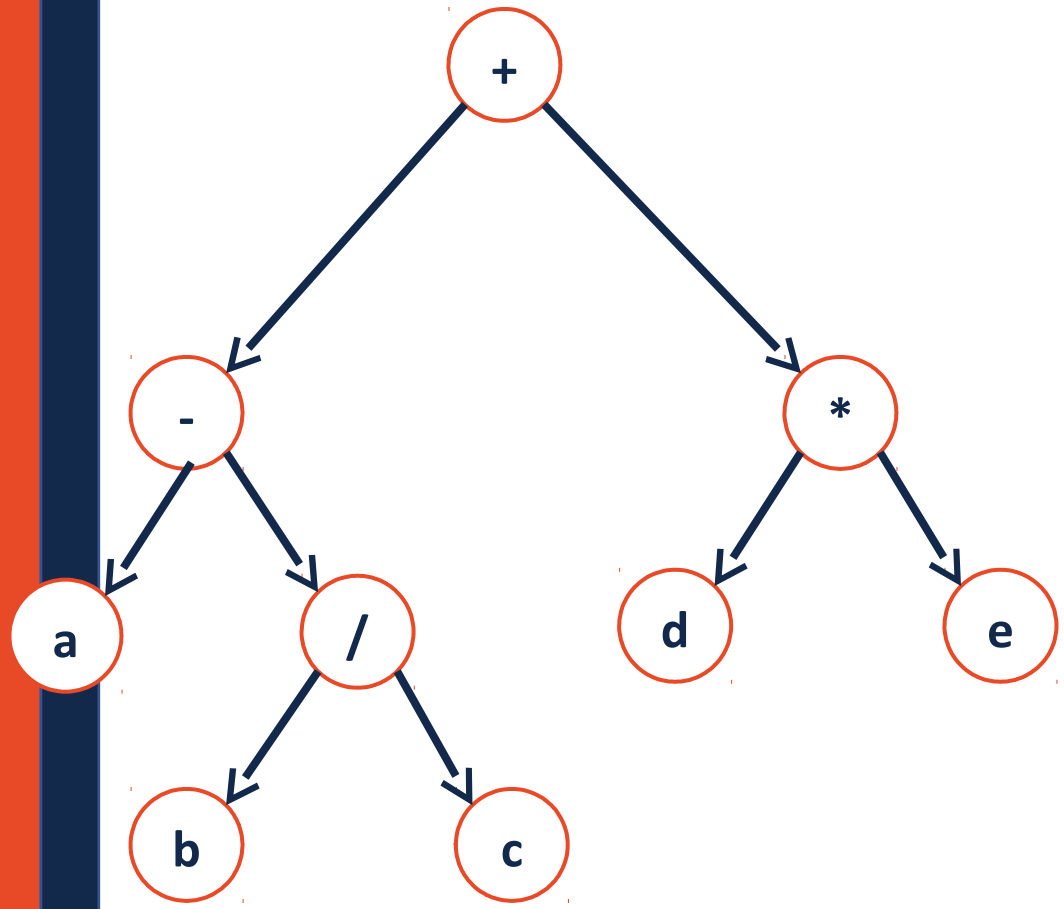
Tree Traversal

EXTRA-Tree-Traversal

Traversals

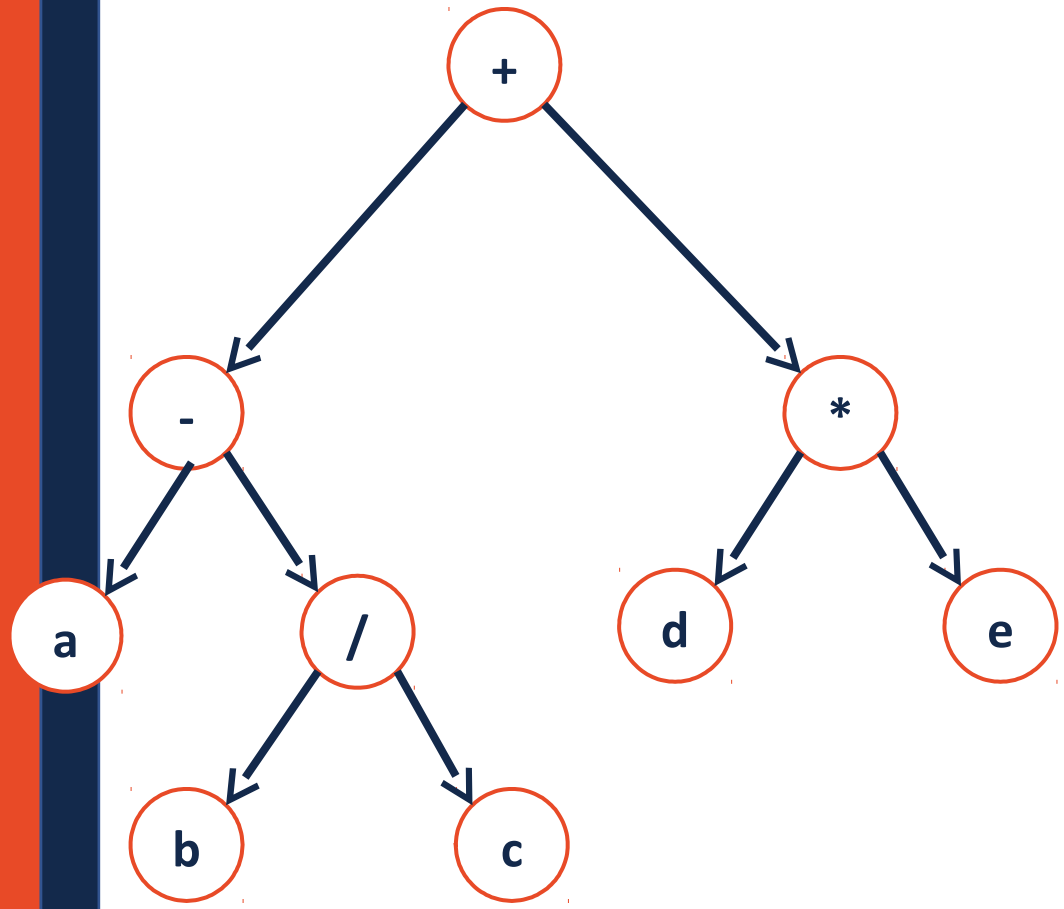


Traversals




```
49  template<class T>
50  void BinaryTree<T>::__Order(TreeNode * cur)
51  {
52
53
54
55
56
57
58  }
```

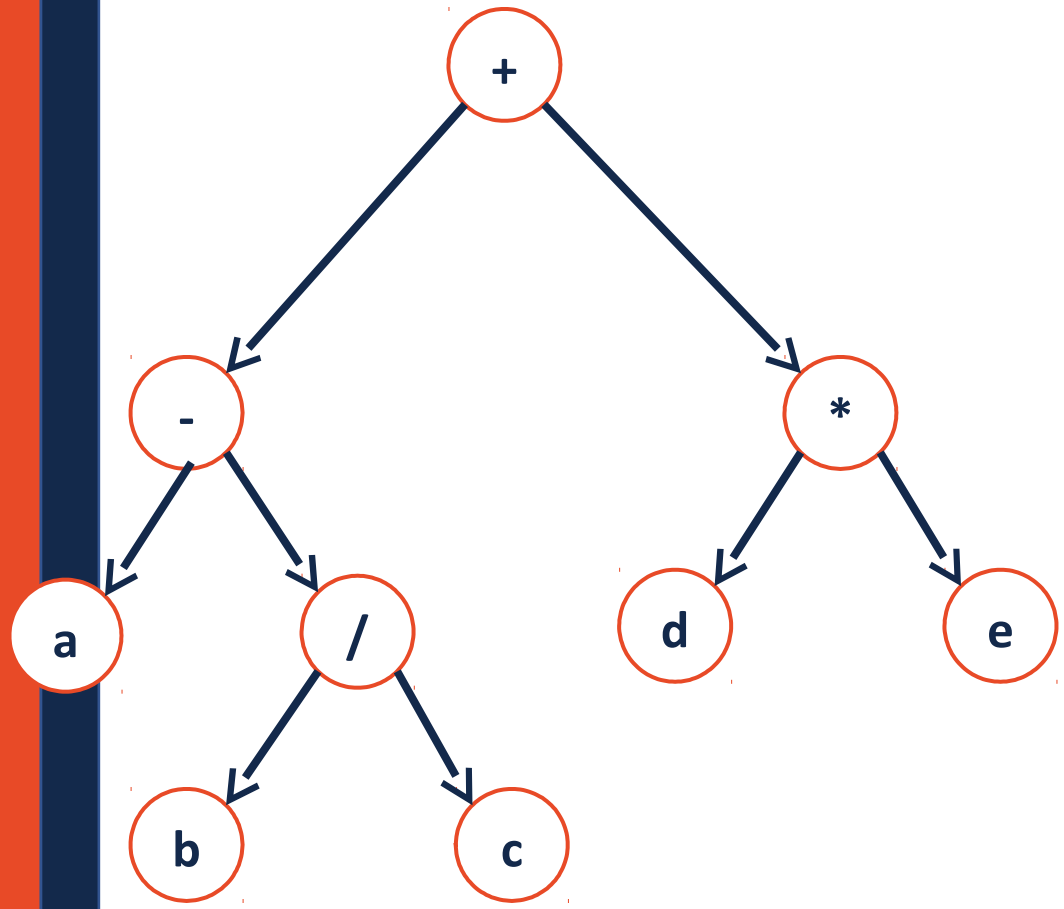
Traversals



pre-order: shout, L, R

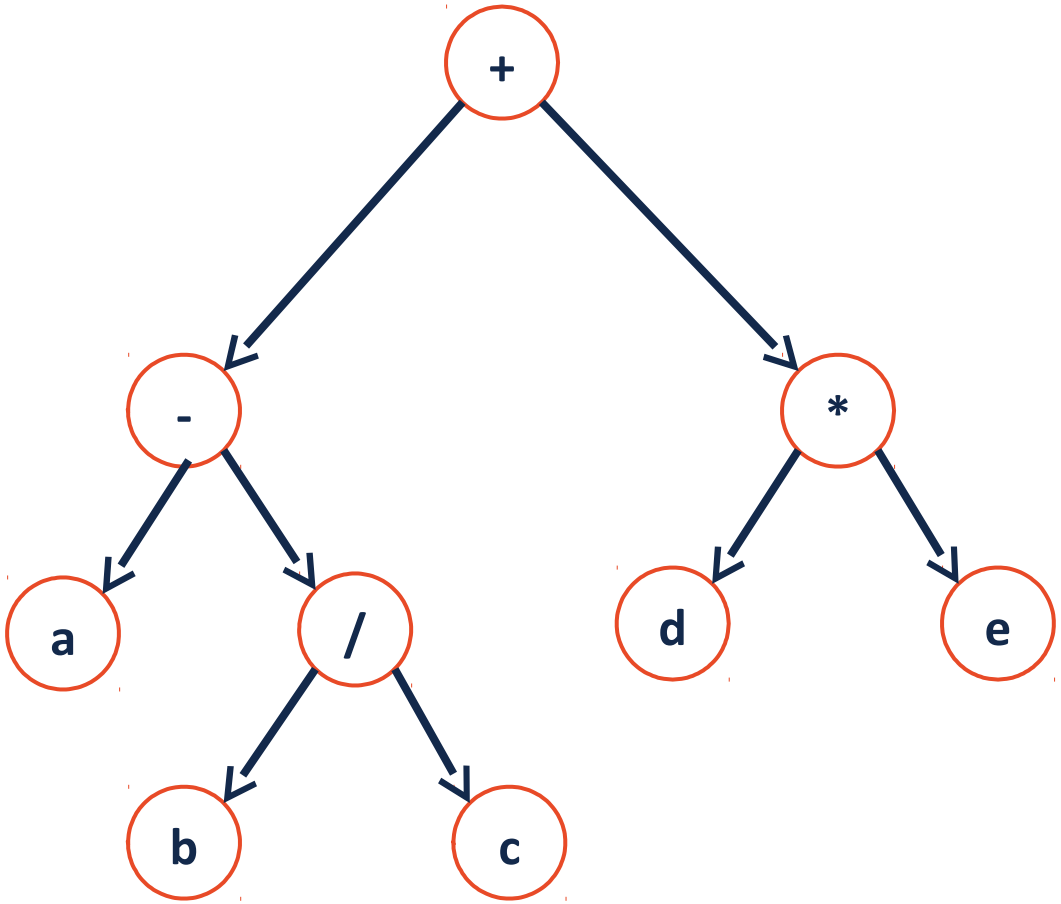
```
49  template<class T>
50  void BinaryTree<T>::___Order(TreeNode * cur) {
51     if (cur != NULL) {
52           _____shout (cur)_____;
53        pre_Order(cur->left);
54           _____;
55        pre_Order(cur->right);
56           _____;
57     }
58  }
```

Traversals

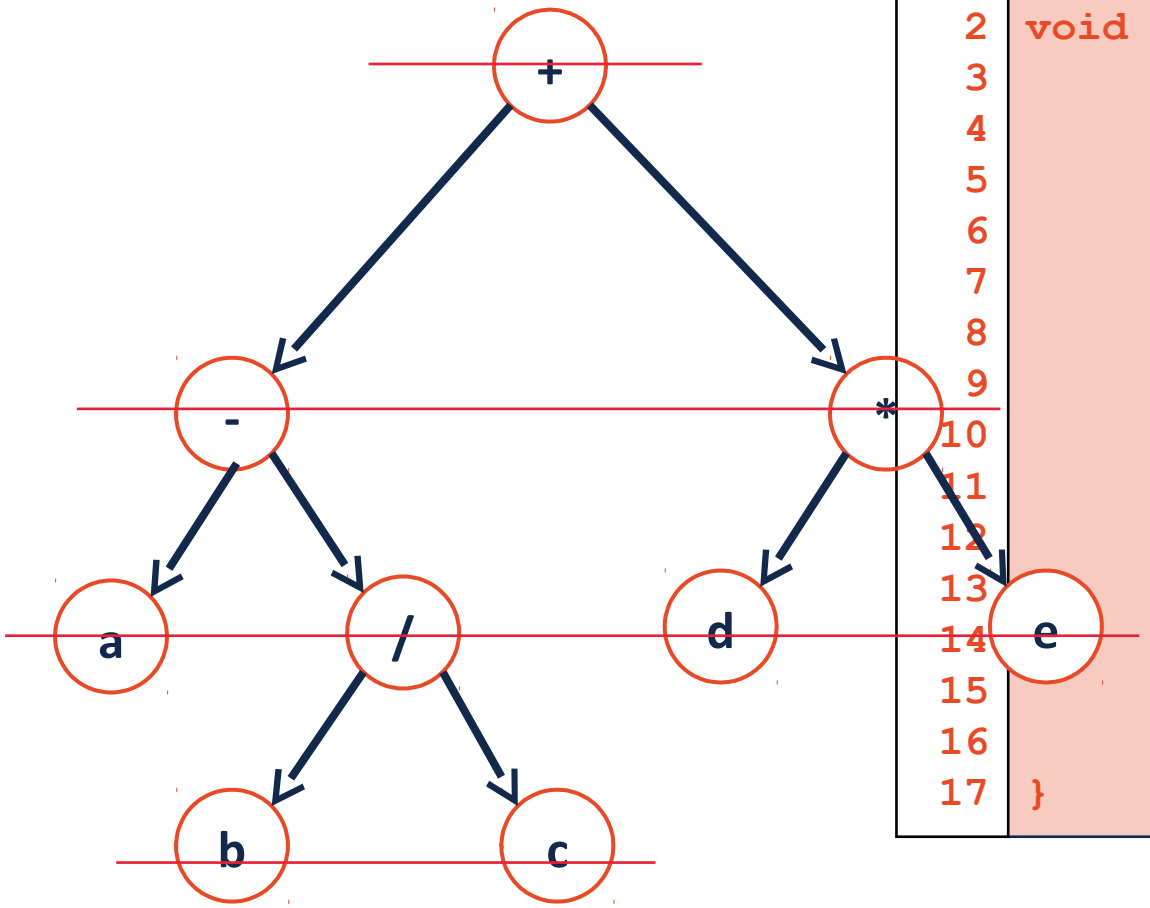



```
49  template<class T>
50  void BinaryTree<T>::___Order(TreeNode * cur) {
51     if (cur != NULL) {
52        ____________________________;
53        ___Order(cur->left);
54        ____________________________;
55        ___Order(cur->right);
56        ____________________________;
57     }
58  }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

A Different Type of Traversal



A Different Type of Traversal




```
1  template<class T>
2  void BinaryTree<T>::levelOrder(TreeNode * root) {
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17 }
```

Traversal vs. Search

Traversal

Search