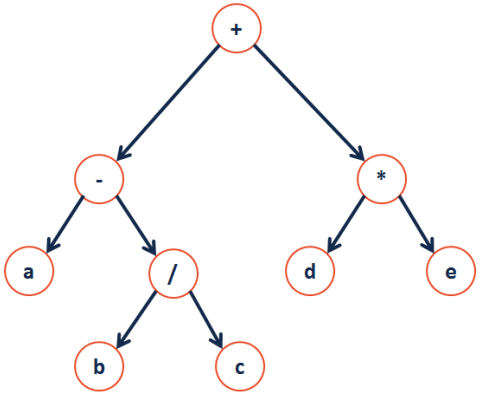
CS 225

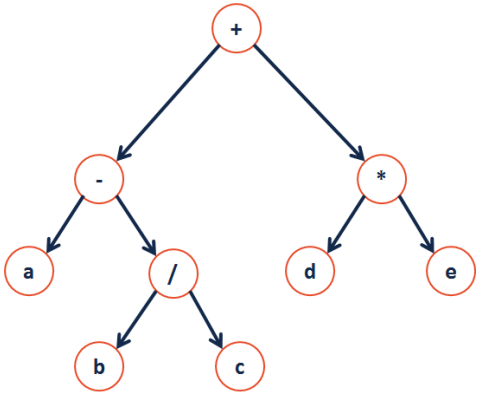
# #15: Tree Traversals

February 19, 2018 · *Wade Fagen-Ulmschneider*

## Traversals:




## Thinking Reclusively:




**BinaryTree.cpp**

```
TreeNode * BinaryTree<T>::_copy(TreeNode * croot) {
  if (croot != NULL) {




  }
}
```

**BinaryTree.cpp**

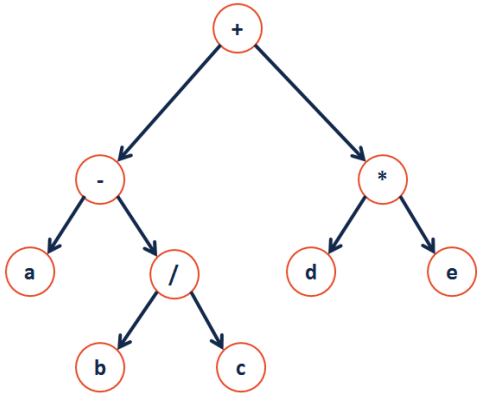
```
void BinaryTree<T>::_clear(TreeNode * croot) {
  if (croot != NULL) {




  }
}
```

## A Different Type of Traversal

Strategy:




**BinaryTree.cpp**

```
void BinaryTree<T>::levelOrder(TreeNode * croot) {




}
```

---

**Traversal vs. Search:**

**Breadth First Search:**

**Depth First Search:**

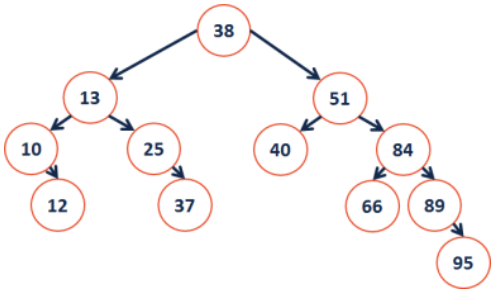
## Dictionary ADT

**Dictionary.h**

```
1  #ifndef DICTIONARY_H
2  #define DICTIONARY_H
3
4
5  class Dictionary {
6    public:
7
8
9
10
11
12
13   private:
14
15 };
16 #endif
```

---

## A Searchable Binary Tree?




**BST.h**

```
  private:
```

**CS 225 – Things To Be Doing:**

1. Theory Exam 2 Topics List Posted (exam next week)
2. MP3 extra credit deadline tonight
3. Upcoming Lab: lab_trees
4. Daily POTDs