Tree Property: Perfect

```
 C
  |
 S   X
  |
 A  2  2  5
```

Tree Property: Complete

```
 C
  |
 S   X
  |
 A  2  2  5
```

Trees are nothing new:

```
 C
  |
 S   X
  |
 Y Z
```

```c
#ifndef BINARYTREE_H
#define BINARYTREE_H

template <class T>
class BinaryTree {

public:
  /* ... */

private:
};
```

```c
#endif
```
**Theorem:** If there are n data items in our representation of a binary tree, then there are _________ NULL pointers.

**Traversals:**

![Binary Tree Diagram]

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**CS 225 – Things To Be Doing:**

1. Exam #4 currently ongoing (“Programming Exam”, MP2)
2. MP3 is in Week 2 w/ nightly grader reports
3. lab_trees released today
4. Daily POTDs