CS2100

Search trees
Recap
- Lab due today
- HW (written) due Monday
- Next HW: remove in a BST due Tuesday after Easter
Last time:

BinaryTree.h

- generic operations
  (use them on next HW!)

What's left:

- Housekeeping!

  - recursively Delete
  - Copy (?)

  preorder
  postorder
Today: Search trees

Insert: 

```
if val <= * 
  if (!it).hasLeftChild() 
    insertAsLeftChild(it, val); 
  else 
    it = it.left();
else
  if (!it).hasRightChild() 
    insertAsRightChild(it, val); 
  else 
    it = it.right();
```
For remove:

3 case:

- be a leaf

- have 4 child (promote left or right)

- have 2 children

could be root or not