Representing a General Binary Tree:

* Some Parents may have One Child Node

List representation - Place an empty List

**Base: Special Cases (1 element, seed, ect)**

**Recursive: The repeated function**

List = [[[7] ,1 ,[]] ,3 ,[[8] ,2 ,[4]]]

When including empty Lists:

def numOfNodes(t):

if len(t) == 1:

return t[0];

elif len(t) == 0:

return 0;

else:

…

def maxNode(t):

if len(t) == 1:

return t[0]

elif len(t) == 0:

return –(math.inf)

…

def inNode(t):

if len(t) == 1:

return t[0]

elif len(t) == 0:

return (math.inf)

…

def mirror(t):

if len(t) == 1 or len(t) == 0:

return t

else:

…

**Rules**

User Location – Console input or Mouse Click

* Only NS, SS, Canteens?

Sort by Rank

Sort by Name

Search by Price

Map on a Grid:

If user inputs X, it translates into coordinates.

If user clicks, it translates into coordinates.