## Problem Domain:

Create a breath first traversal method that takes in a binary tree and output a list of the values in the tree in the order they were encountered

## Edge Cases:

- if node is null
   if there is only one thing in the tree
  - if the tree is not balanced

Big O: Time- O(n) Space- O(n\*2)

## Algorithm:

- create a new queue

   create a list

   enqueue the root from the given tree

   enqueue the root
  eue is not empty, dequeue current node
- while queue is not empty, dequeue current node and add that value to the list
- enqueue the left of that current node, and then enqueue the right
  -return list

## Pseudo:

BreadthFirstTraversal(tree)
create empty Queue queue
create empty List list
root.enqueue
while tree !isEmpty....
node front = dequeue
list.Add front.value
if front.left !null, enqueue front.left
if front.right !null enqueue front.right

once front is null, return list

