CSC148 Summer 2016 Quiz 08 (15 minutes)

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First_name ...... Last_name ...... Lab_room# ...... Lab_room# ......
Recall the declaration of class BinaryTree below.
class BinaryTree:
  """ A Binary Tree, i.e. arity 2.
  def __init__(self, data, left=None, right=None):
   Create BinaryTree self with data and children left and right.
   :param object data: data of this node
   :param BinaryTree | None left: left child
   :param BinaryTree | None right: right child
   self.data, self.left, self.right = data, left, right
______
Read the docstring and examples below. Then, implement max_value2, WITHOUT using recursion. If
recursion is used, there will be a 50% mark deduction.
                                                                          No recension
from csc148_queue import( Queue)
def max_value2(t):
      Return the max value in BinaryTree t
      :param t: a not None binary tree
      :type t: BinaryTree
      :rtype: object
      >>> t1 = BinaryTree(8)
      >>> max_value2(t1)
      8
      >>> t2 = BinaryTree(8,BinaryTree(7,BinaryTree(12),BinaryTree(5)),BinaryTree(11))
      >>> max_value2(t2)
       12
                                        Queue search
       queue = Queue ()
       rewrd = tidata
       quent, add (t)
       while queue, is_empty () is false:

extract = queue, remove (s

rewrd = max ( rewrd, extract, data)
                   if extractileft:
                   queue, add (extract, left)
if extract, right.
queue, add (extract, right)
```