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IBM18CS040

Date __/__/____

Insert (heap, value)
{
Create new node with key as value
Create temporary heap
loop over heap until it becomes NULL
if degree of original tree in heap <
degree of temporary tree in heap
Create new heap and add original tree
else
add temporary tree to heap
if original ~~tree~~ heap has left over heap tree
add them to new heap
if temporary heap has left over tree
add all of them to new heap
if heap size < 1
return heap
loop over new heap
if it's end of heap
one element remains
else if degree first tree <
degree of second tree
merge
else if degree are same then
binomial tree are same in heap
return heap.
}
get min(heap)
{
start from first tree in heap & check
root of tree. find min of all roots &
return
}

Date ___/___/___

Extract min (heap)

{ get min value

start from first tree in heap

if tree root is not minimum then c

create new heap and add tree to heap

remove minimum else from heap & convert

tree to heap

Merge newly created heap without mini

element and heap that was created earlier

return merged heap

}