9-4-15 Data Structures Notes

Heap

Remove() – removes the smallest value from heap

Replace the root with a[n-1]

Delete that value and decrement n

Move root downwards

Repeatedly compare to children

If element is smaller than 2 children

Stop

Else

Swap

Sort()

Smaller values percolate down

Go from lowest right parent and proceed left

When finish one level go to next

At each node, percolate down the item to its proper place in this part of the

Sub-tree

For opposite…

Larger values percolate