CS 2420
Fall semester section 01
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Chapter 19 notes

B-trees must be able to be sorted meaning things on the left tree are smaller

Find min just go to the left
Find max just go to the right
The Big Oh times is O(LogN)

If you take the largest from the smaller side then everything from the left is still smaller
If you take the smallest from the larger side then everything to the rights is still larger

If it's a leaf then it is easy to remove
If it is a branch then you do the let most left one on top or the right most right one on top depending.

When you insert you always add a leaf node? True or false

Insert: O(N)
Remove: O(N)
Find: O(N)
Hoping for Log N for all of these

Trees aren't very good at finding the Kth element

For the Programming hw
For find min if there is no left then you're the min base case if not continue going left.

Do problem 19.27 reclusively

So if it is a big tree then you can use the root and say give me all the stuff then do the right and give you all the stuff

How you would print it as a string
(All of things on the left + root + all of the thing on the right)

Base case you have no child