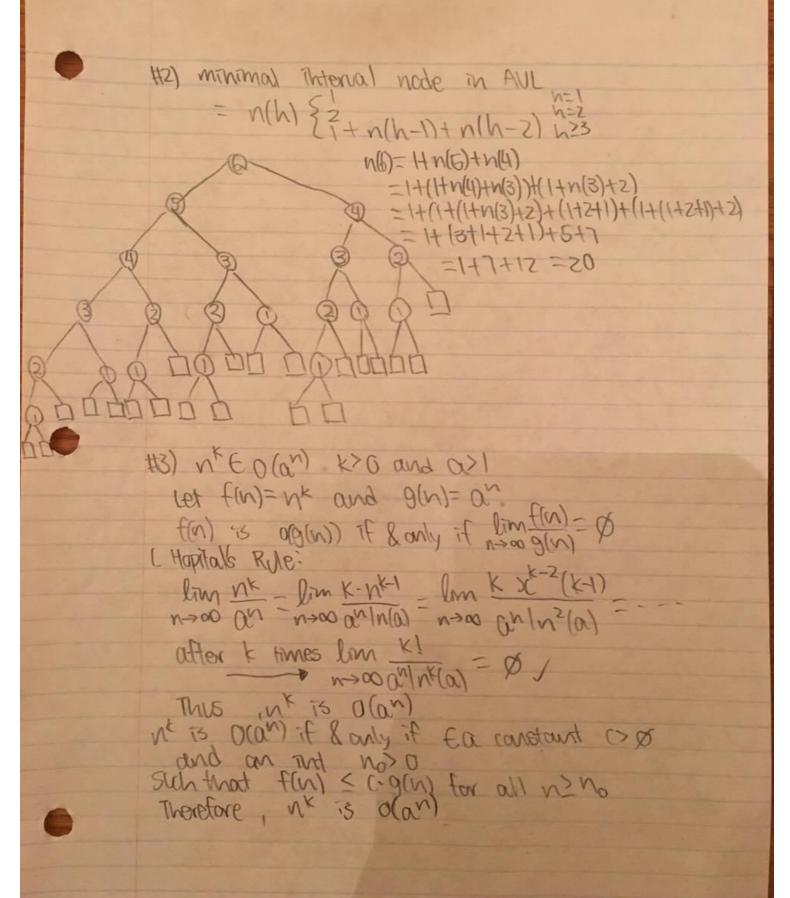
Jordan (Yu-Lin) Wang W0788970. (SCO26 Assignmen



Mestigh the balloon gart--2% first imbalanced mode x other rebalancing The To is same tree for both of S&S', which height is (ta,s)=h-2
this tells the height (y,s')=h and height (2,s)=h+1) I
since height (y,s')=h and y is balanced for s' since both of To & T3 howe the height of h-2 in 5*
then height (2,5*)=h-1 and height (y, 5*)=h-1
since both 2 & y have the height of h-1
height (x, 5*)=h = height (5*) Thus, h= height (s*) = height (s) a the mergeon sit the most efficient algorithm to be used by Rustbucket to sort the in music tiles. Mergesort has the worst case running time of ornloging, which is the fastest comparison based solling The condition of it returns -1 can be added. By doing this, it will recomplete the comparison the possibility of returning -1 is 50/50, this will increase turce the time; 2 nlogn to complete the sort o(nlogn) Constant