Scapegout NOV 10 Spacegout Trees COMP 2402 o (logn) = 10g329 n = # of nodes 9 = controller for size 40 q = n initially $n \leq q \leq 2n$ neight = log 3/29 = log 372(n) + log 372(2) = 0 (log n) + 0(1) remove (x): n=6 est. remove(x) // o(log(n)) q=6 n=4 if (q > 2n) 1093,2(q) = 4.4≥h rebuild(root) // o(n) add (x) q=h BST. add (X) // Oclog(N)

is a scapegoat

if size(x)

> 2/3 size(u) \(\text{sunit}

22un 5

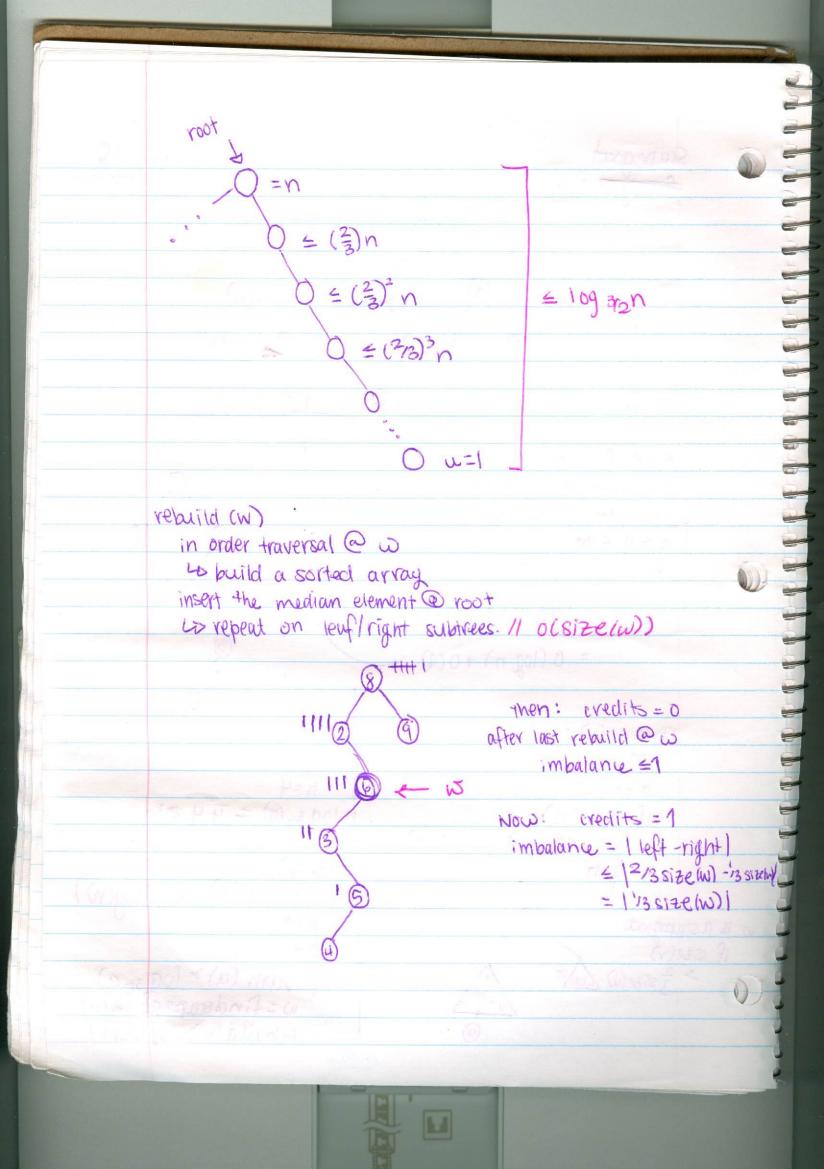
n+t

q+t

if (depth (u) > log 3/2 q)

w = find scapegore (w)

rebuild (w) (OCN)



[2,3,4,5,6,8,9] then q = n. after last rebild credits jar = 0 Now 9 > 2n, -> 9-n >n, credits jar = Dn = In -n,1 = q-n,