AUL Trees are balanced! height always O(19n) worst case is when right subtree has height one more than left for every node NH = min # nodes in an AVL tree of height h. No(1) = \$ 0(1) Nh = 1 + Nh-1 + Nh-2 night left Nh 7 Fh = Qh/15 phi71 ≈ 1.618 Almost Fibonacci

 $\frac{Ce^h}{\sqrt{5}} < n$

h-... < logen & 1.440 lgn