Input - restricted deques. . O "\_ Enqueue >> New node = new Node (a); insert at one end. wen-7 mext = newnude; · delete from both end new-rode = very; Output - Yestricted deque: Queve \$ O(1) We need is · delete from one ends. · Insert at both ends 3 " Unordered Cenked Q134 (4) · degree -> jtray backey Insert -7 0(1) · height -> arrows delete -7 O(n) · legth > nodes in " ordered Rinned Rist Insulted O(n) A (Dapth = 0 , Devel =1) delete - o(,) B c (Depth= 1, Revel = 2) DE (Depth=2, sevel=3) 5) · A degree - O node is tree · height of tree with one leaf. node is O. · degree-n · empty tree height can be -1 All children are disjoint · Almost called nearly allo, Stach leaf in tree is either level in or h-6) · Full Binary tree also called as proper, strictly or 2-tree. Blance & Birmy trees. · Full -> (0,2) + Children · difference theight no more than 1 & Reft and Complete Partict + Same depth (All Deserts filled) Symmetrice ) [1857 level Pilled from left dright] Complete Binney tree with height Vight subtree . THEE THINEYSAR: h has 2h leaf nodes. Breadth - First Depth - First Cinorder, pultorder, preorder h has 2 hot - 1 number of nodes. · n elements sorted in BIT. Complexicity to search a key in the tree. Complete Binary thee with nodes in has height 10g2 (n+1) -1 an elements sorted in Balanced tree. givery tree (est) height h is at least | h+1 | and at most complexicity to search a key in tree.