class Tsee node: def int (selfival) Self val = val self - 7 = None self. L = None self height = 1 def insert ! (self, root, key) 4 root == None return Trustode (key) elif key < loot val -500 t. Reft = Self - Invest (5006. left, key) root right = self . I'msest (root-right, bey) balana setpegetbalan bal = max (getbal (left subtree, & rateublue) if bal > 1 and key < root. left. val return self-nightkotate(root) if bal < - 1 and key > 500t right val return self left so tate (sont) if bal > | and key > opot. left. val root-left = self-leftRotate (not-left) Jehun sey. Rigutkotate (root) if bal < - 1 and key < root light val root. right: sept. rightRobbe (2004. right)