Bst Friday, 11 November 2022 4:03 PM what is BST? (1) Should be a binary tree 2) Left subtree nodes < Rook (3) Right subtree nodes > Root @ Left & Right Subtree are also BST with No dups. morder Traversal of BST is Sorted sequence. L.S. - Root - R.S. quorder -> 1,2,3, 4,5,6 BST Search Same concept with BST. average case is $O(\log N)$ O (Height) O(Height) =0(n) Strategy Problems will be solved using recursion. Divide into Subproblem 2 make recursive call on subtree Code to create BST using Class Node & Constructor (:tem) { this key = item; this.left = null; var root = null; function issert Ky (key) { root = insert (root, key); function insert (key, voot) { if (root == null) { root = new Node (ky); return root; if (root.data > key) { root. left = ivseit (root. left, key); root. right = insent (root. right, key); return rost; Code to Search a Nocle function search (root, kay) { if (vort = = null | root. data = = kay) { if (800t. data > key) { return Search (rook left, key); else g retorn Search (rook. right, key); function is BST (root) } return check (root, Number MIN-VALUE, Number MAXNALUE) function check (node, min, mous) { if (rot == NULL) return true; if (node data znien 1/node data znars) { retorn fall. check (node left, min, node data-1) 22 check (node right, node data+1, mars);