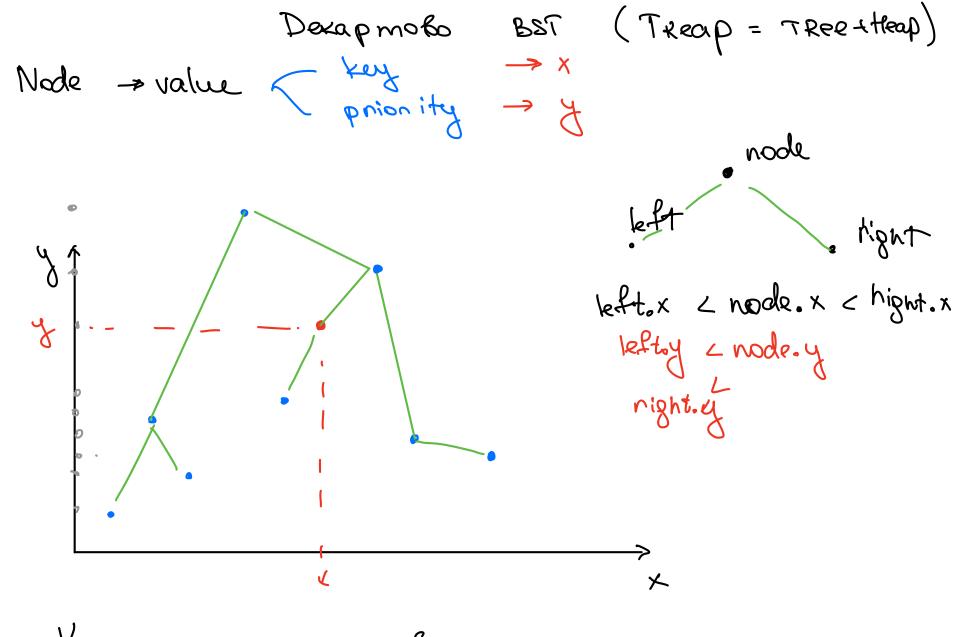
Nupaum pa

onepayen 8 BSI zabucer on Corcor. Surero waem by cory.

- Derapmobo gepebo
- -> V-2. gep 60
- -> SPLAY gepebo



The Kotopunganus gepele c

00 pogenere 10000 00 pogenere 10000 00 pogenere 10000 Ompassur c pepebon

· max()

~ mi~()

· search()

· inserto

· erase()

Atranomerro

B87

split()

Ugea Split (7, key)

L. keys < key

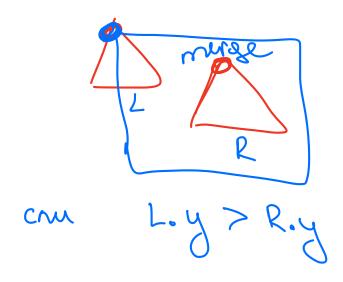
R. keys > key

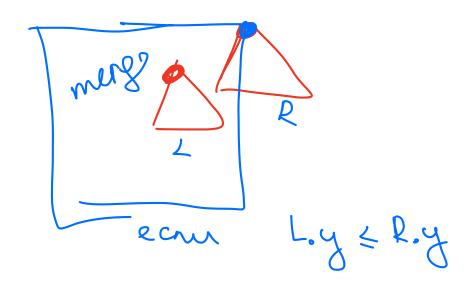
pain

a. lirst [..., ...]

(Node* tree, int key) ? Split Std: pain < Node*, Node*> ecru tree = = null ptr Lo return sold: make-pair (nullpit) ecnu key > tree xx: Std::pair<Node, Nob. >T = Split (tree - right, key) tree -> right = T. first; return std::male-pain (tree, 7. second UHON! auto T = S plit (trees left, keylers tree-> left= 7. second; return Std: make-pain (7. tirst, tree

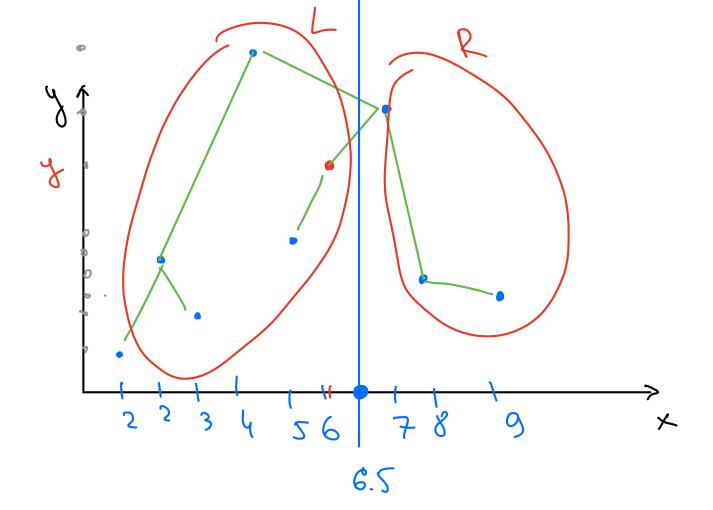
Two cgeram: uz gepela T agenamu applos R.x > key L.x < ky Merge (L,R) He∈L FreL l.x L r.x





Node* rurge (Node* L, Node* R) ecau L = = nullptr Lo restar n R ecm R = - nullptr Lo retinn L 1 29 > Ray ecm Lo Lright = merge (Lorighto, R) return

unare Lillett = merge (L, R. left) return R



* in sert (T, key) LL, R> = split (7, key) Inew_node = n.... I nev- node -> x = key; L= merge (L, new-mode) T= merge (L, R) return T (public Insert (key) root = insert (rook key) remove (7, key) LL, R> = split (T, key) remove Max (L) T= merge (L, R) return T 6 gerapmobou BST n 43006 u

The Renu b general BST n y3nob u npuopurer busurpaeral cryvaluro cregner bucora roxor general H = D (log n) (\sqrt{g})

1. nouderates te nobmoperates (novin)

2. random o... NTV

(2) appros rapp node

Acumnoruxu H~ Q(logn)

s. Split - 0(H)

5. Morse ~ 0 (H)

3. Insert -0(4)

4. remove ~O(x)

1095 10e ~ 18

Build (x, ', 4') -- -. (xn, yn) xi-1 < xi < xi+1 Diame ymer noumpour Xx+1 > Xx (xk, yk) 6 congras, ecus (xx+, yx+1) yx> yx+1 Ugen & paren (xu, yu) custom: patent.y > gk+1 O(2n) = O(n)Parecht (Kenj Ykan) (xv, yu)

3) Bononton mar 2 notes the ok.