pseudocode () De 18/11/20 word insettine (Node+K) { Noole U; not - when - Jane while R -> parent -> colour == 1 if R -> parent -> parent -> right U= K -> parent -> parent -> celft; if U > whom = = 1 U -> color = 0; k -> parent -> color = 0; MUMI = there = ahar k -> parent -> parent -> color = 1 K = K -> parent -> garet else if k = = K -> paret -> deft K = K -> parent right Rotate (h); what a sound a sound a K > paint > paint > colox = 1 left Rotate (K -> panent >> parent) else U= k -> papert -> right inf U => color = = 1 K = -> parent -> color = 0 K -> parent -> parent -> color = 1 K > K -> parent -> parent if K= K -> parat -> right

K= K-> racent K: K-9 parent deft Rotate (K)

S. R. Puncel

S. RAUNEETH K -> parut -> color = 0 K -> parent -> parent -> color = 1 BM18CS087 crightRotate (K -> parent -> parent) if K = = rest break; rest -> color = 0; would circuit (unt key) il Regarde : K - pasent-Node rode = new Node thereof to drawing on it is Node-> gard = null; 1 = = redox = = 1 Node > data = key roole > left = TNULL node -> sight = TNULL roole - color = 1 Node y= mill; Node x = other - noot while (x! = TNULL) if rode -> data < x -> data >c = x -> will dift with the transfer of the $x = k \rightarrow night$ node -> 7 acent = y if y = = nell 1 = = value = + U fr crost = rede; else if node > data < y > data y -> deft = rode else y -> right = rode if node -> parent == null node -> color = o vietuen uf vode > parent - parent = null settran; insertfit (rode) S. R. Purcel