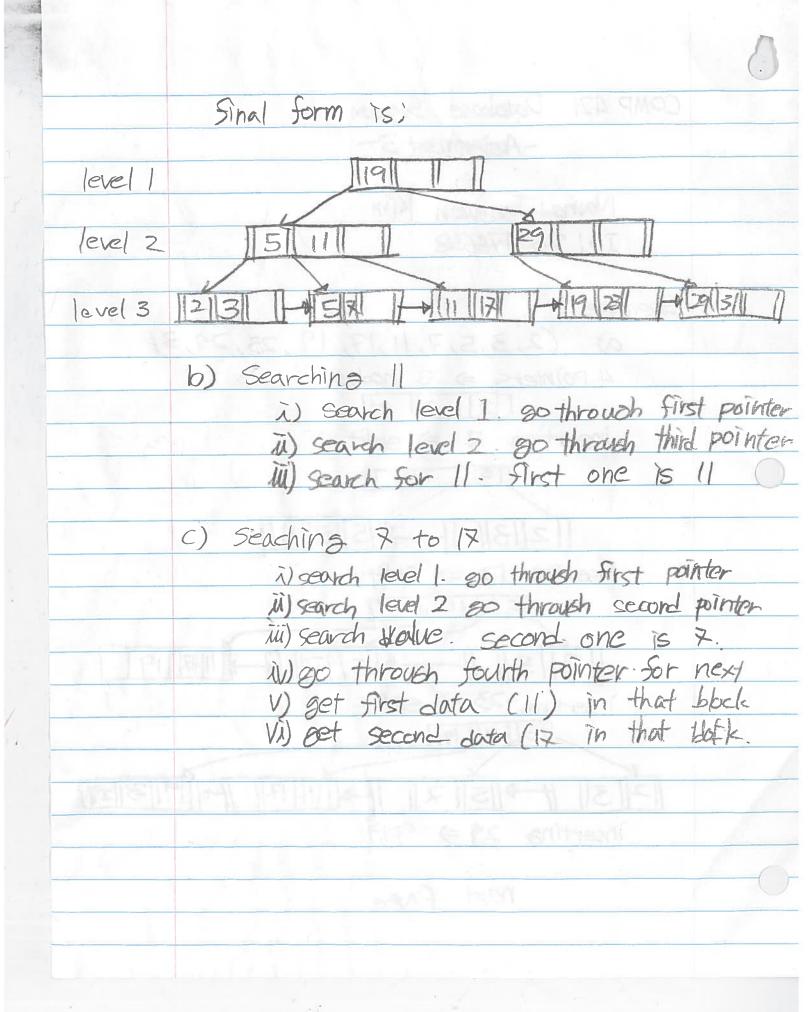
COMP 421 Database System -Asignment 3-Name! Jurguan Kim Ip! 260476658 Exercise 1 0) (2,3,5,7,11,17,19,23,29,31 4 pointers > 3 nodes inserting \$ => split 15 35 711 Inserting 17 >> Split insertine 23 -> spli 15/11/19 19 3 29 insertina 39 => Split next Page



Exercise 2 STEPI P(T, branch) P(S, branch) STEP2 Thuranch name (Thomohname, asset T) MT. osset > asset. (Trosset (Ts. branchetty = Brookby 5))) Pressons 1) We don't save unleaded attributes 3 We restrict right side of joining be 5.+ less amount of data would soined and copial Exercise 3 a) ri 1 20000 turples = 800 blocks 25 tuples/block 12: 45 000 turples = 1500 blocks 30 turples/black Using simple iteration, we need 20 000 x 1500 + 806 disk accesses = 30000800 dist accesses

6) cost = br , c, povox	
$\frac{b) \cos t = br}{(M-2)} * bs + br$	
= 1500 + 800 + 1500 M2 + 800 + 1500	
M2 000 11500	
M = Memory size	
Best case Malson	
=) cost = g00+1500	
-300 disk accesses	
worst case M=3	
= 1500 2800+ 1500	
= 120/500	
The Street amountable days broke Salved	
Leign lang	
Levelize 3	
(A) MATE 50 000 MARPERS (B) 300 A TOTAL (B)	
The state of the s	
an make the feat of	
Farm and instrument assure cuash	
20 000 x 15 m5 a 506 lbs 02055 3	