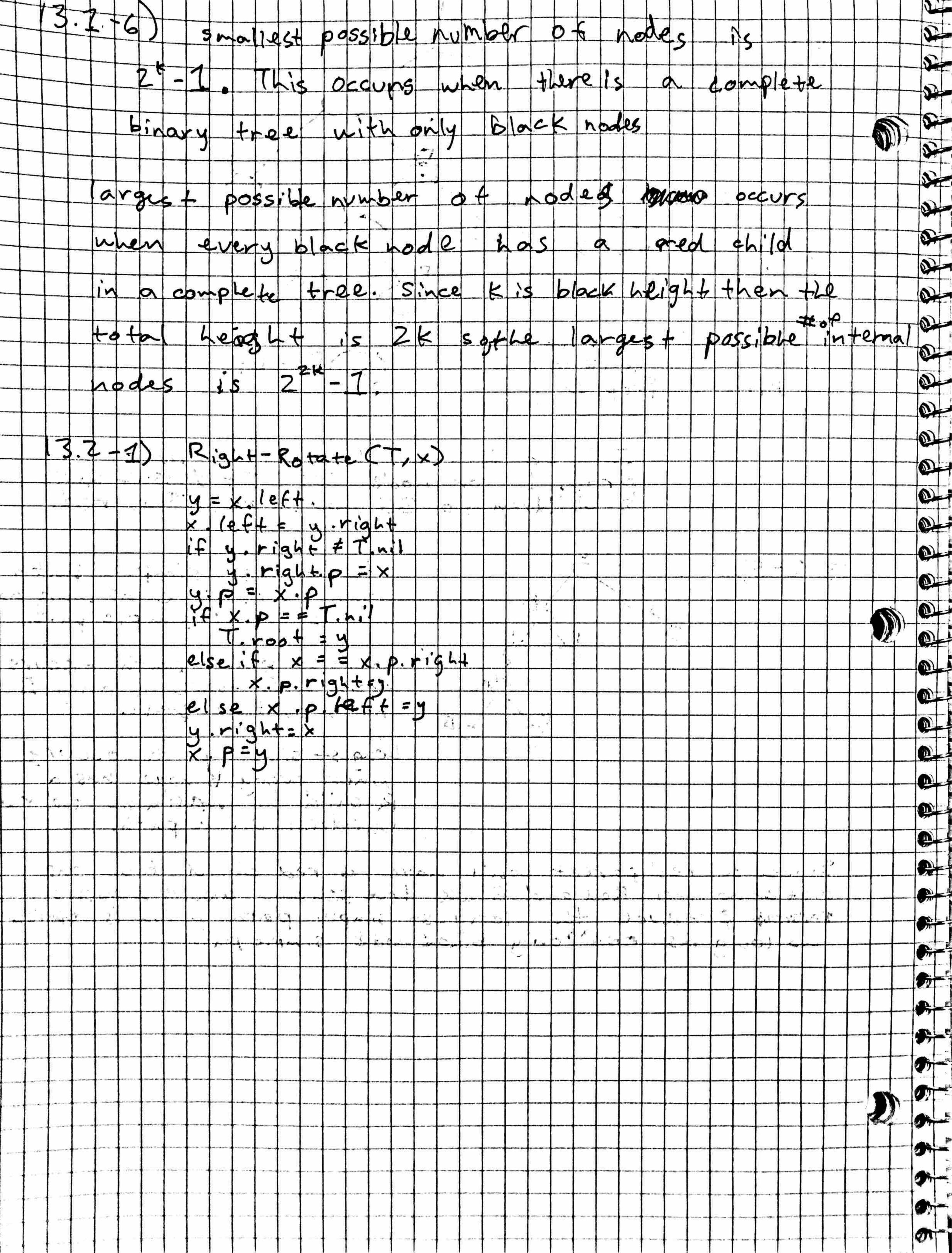
bh 36 Black then Prop 5 breaks that brea for Ithen red or node 35. It doesn't have so 35 show (d margination red. the longest simple Joua as the shortest simple patth Shortest Bimple path outc DIECUYS nodes on that bath. Hongest simple path pacung. when every Bhade has a Richild to maximize the thidren an a path. fhen red child red parent can't have a Red and Black tree scheme would manusiment alternation as long as and only black node simple path which is



tree search bihary xkenan n-noole rott hode on the until roots rofate results m 37/11/12 FE child " 15 10 14. This talkes Man horing chain since 40 ratoitions form the tree D(1) ¢ hain +44 S right tale tree and 90109 left no tate 1000 funtil root right Call the OW then 10 rotate we would have which notations 6/2 thein Huak messes COL but 11 reperty 3 of rebitrees when a rebitred height doesn't changeand black the! 9 RB-Insert-Fixup is used to where rebalance 2 9 and re calor the tree nodes is based on to use red nodes instead Byghoosing 3 Property 4 gates broken which 2 fixed than rusing black nodes trying to fix Property 5 every insention 0 mecessarily

