



Scanned with CamScanner

(B) the runther of the worst and best case is O(nlog(n)) because everytime you ingot a note into the tree, it will run log(n) times and me mill do that action in times, so the purtine will be in log(n) D best eye - no consistion - true rending thankoper briking cave you should LMGT to Insut worst case - every open insert needs a notation. ofter correction the tree will look like this? Sy = Sp + Sy +1 5x = Sa + Sy + 1 (5) node * poteste UB (node p) (6) no because we know that node n= p the height of on AVL tree is M= M1 -> left Ollogn) therefore it rank node n3 = 12 - s cight be w (Isa) becays 0 mans Nr - 10-44 = 105 -> 164 USS then infinity and w ment if (n2 -> r64) infinity so there is a us -) Welt -> porent = NZ contradiction ハイン ヤナナニ からかいろんす not parent in n3 - 1927 = n1 Al - perent = p3 13-3 loft = n2 no -> parent = 13 return nz