



Step 3: Report steps these steps with the different sets. Algorithm & (x 3/2, depth): added max-depth & 0 min depth 6 0 If ind max-and unin (x, o, max depth, min_dept) if (| max_depth - min_depth | = <= 1) & return true pass by reference Find me - and - min (x, depth & max depth funin depth) if (x!= NIL) { depth = depth + 1 if (max_depth < depth) { mux Joph a depth Find max and min (x loft, depth, may depth, min doth tindonex - and-usin (x. right, doth, max doth, min depth) if (min-depth > depth) { min depth to depth

This own in O(n) because each node in the binary tree will be & checked in Find my and - unin (...) $\frac{1}{1} 2^{h + 1} - 1 = h$ NO 100 Kegedid 2 nm = 4 kn -> logo ((= m m $nodes = 2^{height + 1} - 1$ nodes + 1 = 2 height t1height = logz (nodes +1) height = Mag, (nodes +1) -1 Lis now bown d'anten aunt haight is

The roof rock has no prent, so this is one MI Promee. For every extra nale, this wal will delete one MIL pointe and add tog this means each extra added made will create one Extra NIL pointe. By definition of a binary trong each exprest large can house n+1 nodes, this 12 where the now comes from