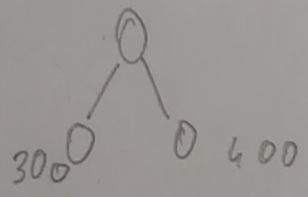
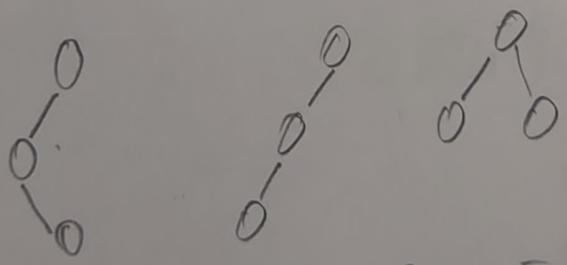
1. if (cond)
   seq (1) -> O(m)
   else seq(2) -> O(1)

worst case : O(n)

2. void get_min (NODE x) {
   while(x -> left)
   x = x -> left ;
   return (x -> key) ;
   }

3. 

PREORDER : 0
INORDER : 300
POSTORDER : 700

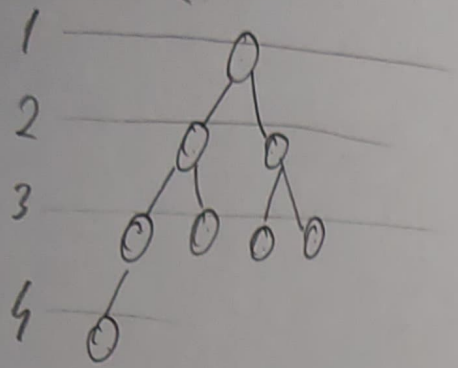
4. 

We need to do a left-rotation to transform it into left left and then a right-rotation to balance it

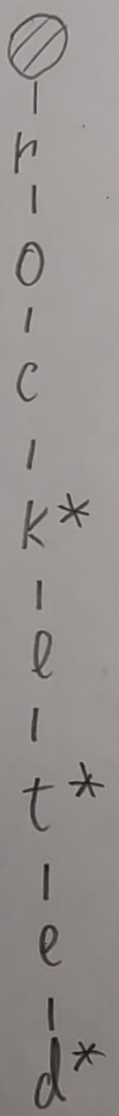
5.

$\max(h) = 1.44 \log_2 n = 1.44 \cdot \log_2 8 = 1.44 \cdot 3 = 4{,}32$

$\Rightarrow \max h = 4$



6.



7. $T = 3 \Rightarrow 2 \leq K \leq 5$ (NOT EFFICIENT INSERT)

9. [9]

8. [8|9]

7. [7|8|9]

6. [6|7|8|9]

5. [5|6|7|8|9]

(PROMOTE → INSERT)
MAX LEAF = 5