

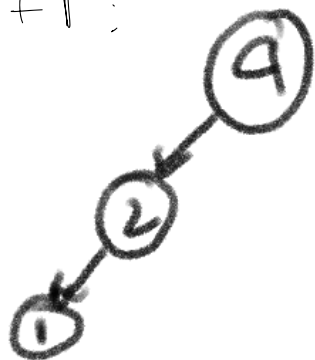
Start with empty tree + root 4: ④

Now insert 2:



$4 > 2 = \text{left}$

Now insert 1:



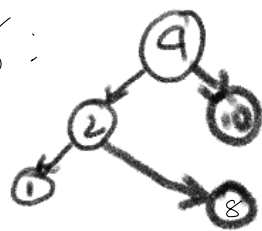
$2 > 1 \text{ left}$

Now insert 10:



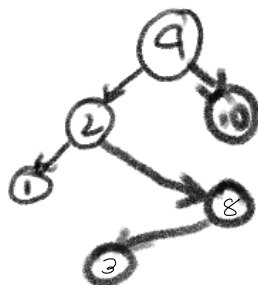
$10 > 4 \text{ right}$

Now insert 8:



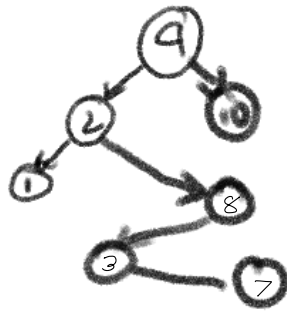
$8 < 4$  greater than 2  
left of 4 right of 2

Now insert 3:



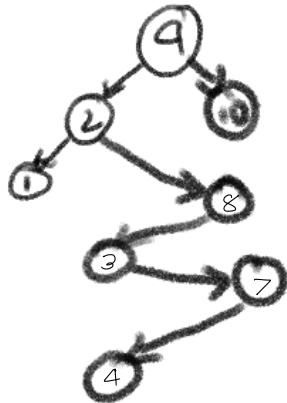
$3 < 8$  greater than 2  
left of 8

Now insert 7:



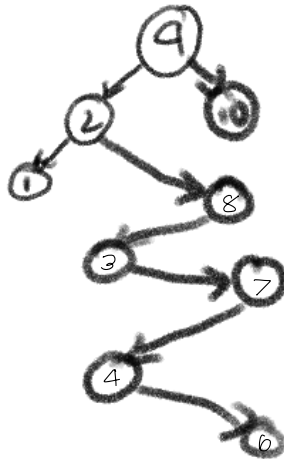
$7 > 3$  but greater than 2 right of 3

Now insert 4:



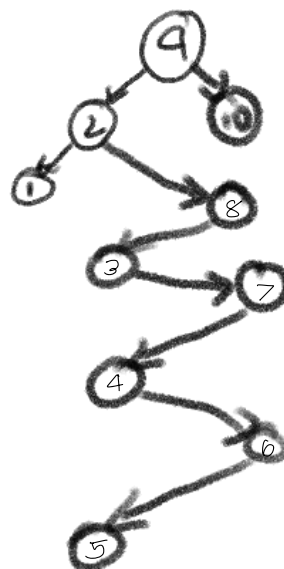
$4 < 7$  greater than 2 left of 7

Now insert 6:



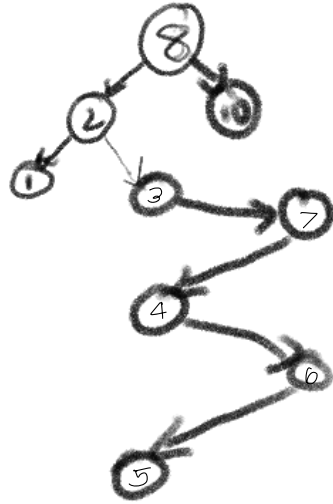
$6 > 4$  greater than 2 right of 4

Now insert 5:



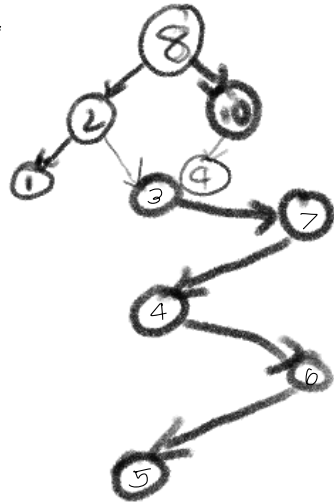
$5 < 6$  greater than 2 left of 6

delete 8:



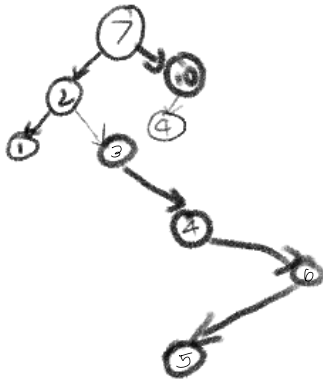
brings 8 to the root  
and 3 goes to the  
right of 2

Insert 4 again:



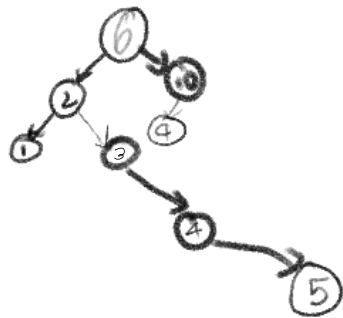
4 goes to the left  
of 10

delete root(8):



7 becomes the root  
then 4 goes to right  
of 3

delete root(7):



6 becomes new root and  
5 goes to the right of  
4