

DATA STRUCTURES

Binary Search Tree •

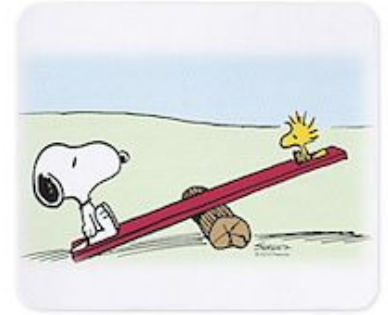
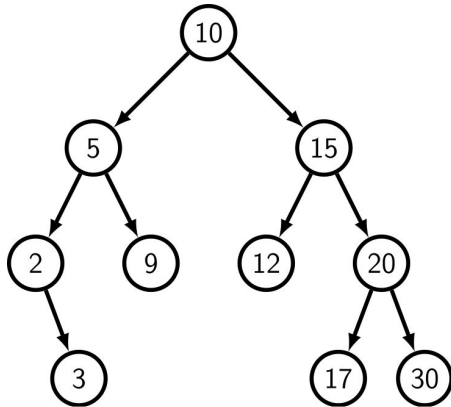
Balancing Factor •

Rotation •

AVL Tree

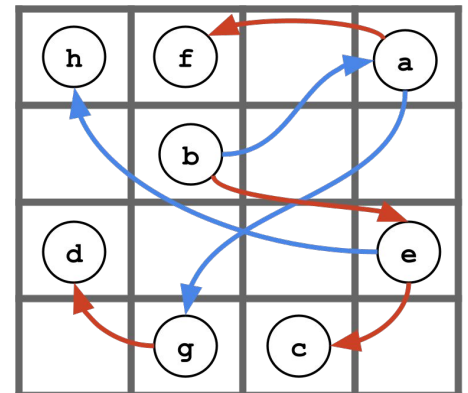
AVLTrees

Starting with the following AVL tree, draw the resulting AVL tree after calling **add(18)**, then **add(25)** and then **remove(9)**.



RotateRight

Update the arrows below to perform a right rotation about node **(b)**. Blue arrows are the left child pointers. Red arrows are the right child pointers.



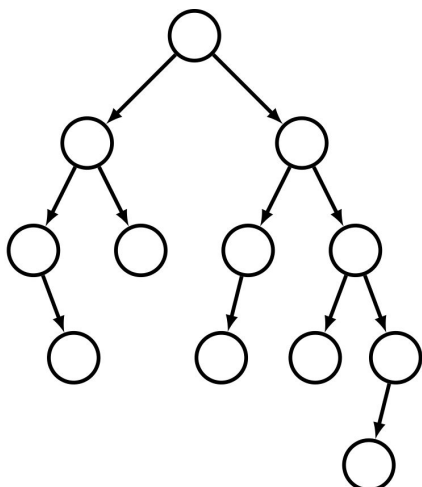
WordSearch

leftright, rightleft, AVL, height, rotation, search, key, map, log, set, balanced

```

L S R D N M I S R I
Z E E T A I R X O D
Z F F A F V S D T T
K G S T R L L K A L
E D E O R C G M T O
Y H T L F I H A I G
H E I G H T G P O N
V B N A R D L H N O
R I G H T L E F T Q
B A L A N C E D R H
  
```

Resulting AVL tree after
add(18) and **add(25)**:



Resulting AVL tree after **add(18)**,
add(25) and **remove(9)**:

