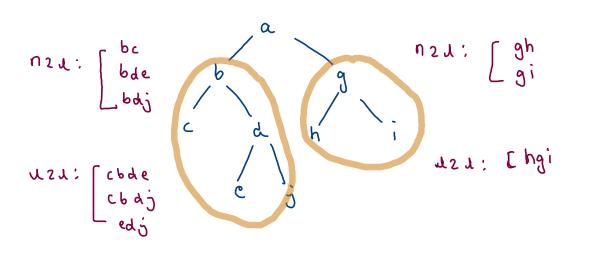
## Maximum Path Sum In Between Two Leaves Of Binary Tree



```
Ap = solve (node.left);

np = solve (node.right);

n21 = max (lp.n21, rp.n21)

+ node.val;

l21 = max (lp.l21, rp.l21,

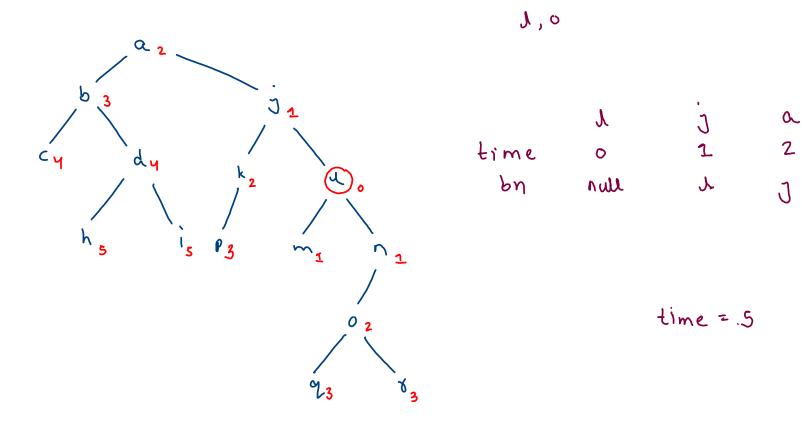
lp.n21 + node.val +
```

DP. N27)

```
public Pair helper(Node node) {
  if(node == null) {
                                                                                      (18,22)
     return new Pair(Integer.MIN_VALUE,Integer.MIN_VALUE);
  if(node.left == null && node.right == null) {
      return new Pair(node.data,Integer.MIN_VALUE);
                                                                        (15, 11)
                                                                                                         (4,5)
  Pair lp = helper(node.left);
  Pair rp = helper(node.right);
                                                                                                                      (10, -\infty)
 int n2l = Math.max(lp.n2l,rp.n2l) + node.data;
                                                               (-4, -\infty)
                                                                                           (5, -00)
 int 121 = Math.max(1p.121,rp.121);
  if(node.left != null && node.right != null) {
     121 = Math.max(121,1p.n21 + node.data + rp.n21);
  return new Pair(n21,121);
```

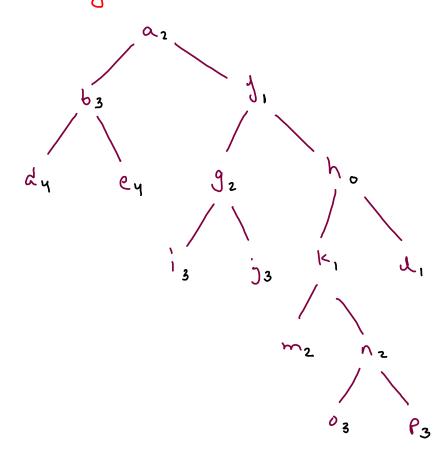
721, 121

## Burning Tree $\square$



```
public static int minTime(Node root, int target)
    time = 0;
                                                                                          Q<sub>2</sub>
    ArrayList<Node>n2rp = nodeToRootPath(root, target);
    int t = 0;
    Node bn = null;
                                                                                                                                           h,o
    for(int i=0; i < n2rp.size();i++) {</pre>
        Kdown(n2rp.get(i),t,bn);
        t++;
        bn = n2rp.get(i);
                                                                                                    92
                                                                                                                                         time
                                                                                       ey
    return time;
                                                                                                          J3
  static int time; //total time taken to burn the complete tree
  public static void Kdown(Node node,int t,Node bn) {
      if(node == null || node == bn) {
                                                                                        Q.
         return;
                                                                                                                          72
                                                                   O
     time = Math.max(time,t);
                                                           pn
                                                                   null
                                                                               h
      Kdown(node.left,t+1,bn);
                                                                                                                                 P3
      Kdown(node.right,t+1,bn);
```

Burning tree 2



0 -> h

1 -> k, l, j

2 -> m, n, g, a

3 -> 0, p, i, j, b

4 -> d, e