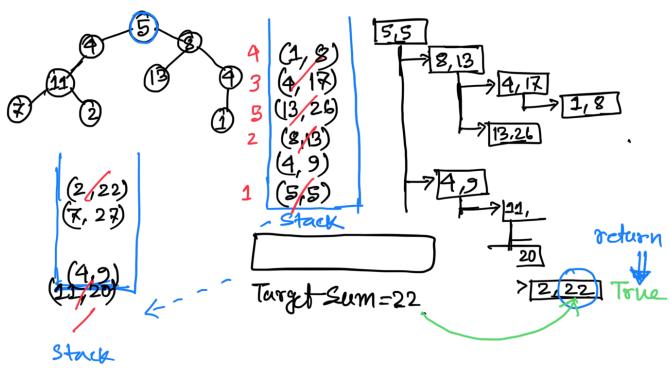
Path Sum (Lectcode 112)



```
ToreNode
                               Pairs
      int val:
                                  TreeNode node;
      TreeNode left:
                                   int pathsum;
      Tree Node right;
Public bookean haspath. Sum (Tree Node root, int target Sum) {
        if (root == null) return False;
       Deque (Pair) stack = new Array Deque ().
       Stack push (new Pair (root, root, val));
      while (! stack, is Empty ()) }
           Pain P = Stack, POP();
           Tree Node node: P. node;
           int cum Sum 2 P. Path Sum;
          if (note left == null &4 node right == null)
                    If (target Sum == cum Sum)
                            return true:
         if ( node , left != null)
               de. left!= null)
Stack. puch (new Pair (node. left, cumsum t
node. left. rail),
         if (node right 1 = null)
              Stack, push (new Pair (noderight, cumsum + noderight
```

return talse; }