# Definition for a binary tree node.  
class TreeNode(object):  
 def \_\_init\_\_(self, x):  
 self.val = x  
 self.left = None  
 self.right = None  
def creatTree(A,root,i,n):  
 if i<n:  
 tmp = TreeNode(A[i])  
 root = tmp  
 root.left = creatTree(A,root.left,2\*i+1,n)  
 root.right = creatTree(A,root.right,2\*i+2,n)  
 return root  
  
def inorderTraversal(root):  
 if root:  
  
 if root.val != None:  
 print(root.val,end=" ")  
 inorderTraversal(root.left)  
 inorderTraversal(root.right)  
def preorderTraversal(root):  
 if root:  
 if root.val != None:  
 print(root.val,end=" ")  
 preorderTraversal(root.right)  
 preorderTraversal(root.left)  
#  
if \_\_name\_\_ == '\_\_main\_\_':  
 A = [1,None,2,3]  
 root = None  
 root = creatTree(A,root,0,A.\_\_len\_\_())  
 inorderTraversal(root)  
 print(" ")  
 preorderTraversal(root)