# 真实的面试问题3

## 字节跳动

1. GET和POST区别
2. 链表和数组的区别
3. python的dict实现
4. python和java的垃圾回收机制
5. mysql的联合索引的结构
6. rabbitmq高性能的原因
7. rabbitmq的架构
8. celery的架构
9. 非递归写中序遍历

https://leetcode-cn.com/problems/binary-tree-inorder-traversal/

class Solution:
 def inorderTraversal(self, root: TreeNode) -> List[int]:
 res = []
 stack = []
 while stack or root:
 if root:
 stack.append(root)
 root = root.left
 else:
 tmp = stack.pop()
 res.append(tmp.val)
 root = tmp.right
 return res

1. 打家劫舍

https://leetcode-cn.com/problems/house-robber/

class Solution:
 def rob(self, nums: List[int]) -> int:
 if not nums:
 return 0

 size = len(nums)
 if size == 1:
 return nums[0]

 dp = [0] \* size
 dp[0] = nums[0]
 dp[1] = max(nums[0], nums[1])
 for i in range(2, size):
 dp[i] = max(dp[i - 2] + nums[i], dp[i - 1])

 return dp[size - 1]