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def rightRotation(word1, word2):
    n = len(word1)
    m = len(word2)
    if word1 == None or word2 == None or n == 0 or m == 0 or n != m:
        return -1
    ans = word1 + word2
    return 1 if ans.index(word2) != -1 else -1

def longestPalindrome(s):
    n = len(s)
    ans = ""
    nums = 0
    if n == 0:
        return ans
    for i in range(n*2-1):
        left = i//2
        right = (i+1)//2
        while left >= 0 and right < n and s[left] == s[right]:
            left -=1
            right +=1
        if nums < right-left+1:
            nums = right-left+1
            ans = s[left+1:right]
    return ans

def mergeTwoLists(l1,l2):
    if not l1 or not l2:
        return l1 if not l2 else l2

    if l2:
        if l1.val > l2.val:
            l2,l1 = l1,l2
        l1.next = self.mergeTwoLists(l1.next, l2)
    return l1

# 这里是另一种解法 可以把 tree 变成 string 然后直接看 s 是不是包含了 t
def isSubtree(s,t):
    def convert(p):
        return "^" + str(p.val) + "#" + convert(p.left) + convert(p.right)
    if p else "$"
    return convert(t) in convert(s)

def highFive(items):
    d = collections.defaultdict(list)
    for idx, val in items:
        heapq.heappush(d[idx], val)
        if len(d[idx]) > 5:
            heapq.heappop(d[idx])
    res = [[i, sum(d[i])/5] for i in sorted(d)]
    return res

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