Twitter

select T.id,
IF(isnull(T.p_id), 'Root', IF(T.id in (select p_id from tree), 'Inner', 'Leaf')) Type
from tree T

If end not in bank, reutnr -1, else easy

```
+----+------+  +----+------+
| id | p_id |  | id | Type |
+----+------+  +----+------+
| 1  | null |  | 1  | Root |
| 2  | 1    |  | 2  | Inner|
| 3  | 1    |  | 3  | Leaf |
| 4  | 2    |  | 4  | Leaf |
| 5  | 2    |  | 5  | Leaf |
+----+------+  +----+------+
```

~~433~~ ~~Minimum Genetic Mutation (/problems/minimum-genetic-m~~

Pass Feb 3, 2019 6:36 AM

I can do this, but not just as I thought, I mean very clear about it.

Jan 24, 2019 9:11 PM, redo

~~468~~ ~~Validate IP Address (/problems/validate-ip-address)~~

Pass Feb 3, 2019 6:36 AM

Jan 24, 2019 9:15 PM

635 Design Log Storage System (/problems/design-log-storage-system)

O(N) is easy

Pass Feb 3, 2019 6:36 AM

✔ 341 Flatten Nested List Iterator (/problems/flatten-nested-list-iterator)

Helper function to flatten, pass Feb 3, 2019 6:36 AM

Jan 24, 2019 9:26 PM

✔ ~~647~~ ~~Palindromic Substrings (/problems/palindromic-substrings)~~

Pass, use the extend function helper, Feb 3, 2019 6:37 AM

✔ 679 24 Game (/problems/24-game)

Jan 24, 2019 9:30 PM
Jan 31, 2019 12:25 AM

Redo!!

Passed Feb 3, 2019 6:42 AM

Search insert position

Passed, but still need redo to be very sure, Feb 3, 2019 6:44 AM

300 Longest Increasing Subsequence (/problems/longest-increasing-subsequence)

Maybe redo, Jan 31, 2019 8:34 AM
Pass Feb 3, 2019 6:50 AM

✔ 57 Insert Interval (/problems/insert-interval)

Skip Feb 3, 2019 6:50 AM

Can skip Jan 31, 2019 8:46 AM,

355 Design Twitter (/problems/design-twitter)

269 Alien Dictionary (/problems/alien-dictionary)

Need redo

Redo and be able to explain

✔ 127 Word Ladder (/problems/word-ladder)

271 Encode and Decode Strings (/problems/encode-and-decode-strings)

Redo !

https://leetcode.com/company/twitter/

✔ 56 Merge Intervals (/problems/merge-intervals) sort it and then merge with start and end.

A little redo, basically .

84 Largest Rectangle in Histogram (/problems/largest-rectangle-in-histogram)

767 Reorganize String (/problems/reorganize-string) Redo Jan 31, 2019 3:30 PM

307 Range Sum Query - Mutable (/problems/range-sum-query-mutable)

Understand this better solution https://leetcode.com/problems/range-sum-query-mutable/discuss/75724/17-ms-Java-solution-with-segment-tree

✔ 146 LRU Cache (/problems/lru-cache)

🔓

68 Text Justification (/problems/text-justification)

814 Binary Tree Pruning (/problems/binary-tree-pruning) Do it

518 Coin Change 2 (/problems/coin-change-2) Redo and explain your method. Jan 31, 2019 4:31 PM
Check but don't need to redo.

✔ ~~252 Meeting Rooms (/problems/meeting-rooms)~~ 🔓

✔ 264 Ugly Number II (/problems/ugly-number-ii) Do this.

✔ ~~91 Decode Ways (/problems/decode-ways)~~ Redo quickly Jan 31, 2019 4:46 PM

706 Design HashMap (/problems/design-hashmap)

✔ 227 Basic Calculator II (/problems/basic-calculator-ii) int(deque.pop()/num) Feb 3, 2019 4:15 PM, feel a little stupid here.

? 692 Top K Frequent Words (/problems/top-k-frequent-words)

547 Friend Circles (/problems/friend-circles) Redo, dfs or uf, redo the uf solution.

✔ 295 Find Median from Data Stream (/problems/find-median-from-data-stream)

Maybe redo, depend, Jan 30, 2019 9:28 PM

44 Wildcard Matching (/problems/wildcard-matching) Depend, basically don't need redo.

✔ 139 ~~Word Break (/problems/word-break)~~ Need redo
Pass ,Feb 3, 2019 4:25 PM

380 Insert Delete GetRandom O(1) (/problems/insert-delete-getrandom-o1)

Need redo Jan 30, 2019 9:14 PM

- ✔ ~~43~~ ~~Multiply Strings (/problems/multiply-strings)~~ ~~redo~~
- ✔ ~~74~~ ~~Search a 2D Matrix (/problems/search-a-2d-matrix)~~ Maybe redo, maybe no, Jan 30, 2019 10:06 PM
- ✔ 73 Set Matrix Zeroes (/problems/set-matrix-zeroes) redo
- ✔ 153 Find Minimum in Rotated Sorted Array (/problems/find-minimum-in-rotated-sorted-array) Redo
- ✔ 4 Median of Two Sorted Arrays (/problems/median-of-two-sorted-arrays) Redo
- ✔ 287 ~~Find the Duplicate Number~~ (/problems/find-the-duplicate-number) Redo
- ✔ 347 ~~Top K Frequent Elements (/pro~~blems/top-k-frequent-elements)
- ✔ ~~10~~ ~~Regular Expression Matching (/pr~~oblems/regular-expression-matching)
- ✔ 234 Palindrome Linked List (/problems/palindrome-linked-list)
- ✔ 6 ZigZag Conversion (/problems/zigzag-conversion)
- ✔ 169 Majority Element (/problems/majority-element)
- ✔ 215 Kth Largest Element in an Array (/problems/kth-largest-element-in-an-array)
- ✔ 49 ~~Group Anagrams (/problems/group-anagrams)~~
- ✔ 42 ~~Trapping Rain Water (/problems/trapping-rain-water~~)
- ✔ ~~7~~ ~~Reverse Integer (/problems/reverse-integer)~~
- ~~136~~ ~~Single Number (/problems/single-number)~~
- ✔ 2 Add Two Numbers (/problems/add-two-numbers)

find Kth smallest element。 https://leetcode.com/problems/kth-largest-element-in-an-array/description/

Determine if a number is prime or not.

1. some activities in Twitter?
2. Skills you used most frequently, like language, and tools.
3. Is the food good?
4. Something about outing?
5.

Python语言的问题, 包括GIL, iterator.

给定两个字符串s和t,
请问最少用多少次swap操作可以把t变成s。swap指的是交换两个字符。

如何根据用户query的keywords推荐广告相关的keywords, 还有一题没太理解时间就到了

第一道：给一堆用户以及其活跃时间的tuple list [<userID1, activeTime1>.....<userIDn,activeTimen>],
其中用户可以活跃于多个timestamp，在同一分钟内（e.g. 10：01：01 and 10：01：59）
活跃多次的只记为一个active minute；并且activeTime格式整数，记录了从1975.1.1到当时的毫秒数。
问题是让统计不同cumulated number of active minutes 对应的用户数量 （e.g. 总共活跃了x分钟的用户有多少个）
解法：用hashmap和set解了一波，写完程序还要运行一下。面试官follow up，问这个东西用mapreduce怎么解决。楼主有五六年没用过map reduce，凭印象讲了一下MapReduce的原理和怎么apply在这个问题上，面试官说差不多答对70%，不过念在我不咋用的份上就不深究了。。。

第二道：给一个图和source以及target找source到target的最短路径
写完程序也要拿test case运行一下出正确结果才行

字符串自动匹配(就是建立一个Trie)，之前写过一次Trie，

1.clone graph

skip list

实现bigint的加法。

2. 要一个interface, 这个interface实现两个public method, 1 . public void addJob(Callable f, int time) 把一个function传进来，然后每隔time把这个function call一遍. 2.deleteJob(Callable f)停止运行这个程序，我用multi-thread写，说了下怎么用sleep来实现等待，然后keep一个deadlist,一旦这个fucntion不运行，就加到这个deadlist里，每次都创建一个新的thread来运行f. 但面试官说，这个totally find,but there is a better way just using single thread. 大家可以想一想，我想我最后就挂在这题上了..

1.power set

6.permutation and permutation II

7.stock i ii iii 问题，就是最简单的，但是除了返回max profit之外，还要返回buy 和sell的时间复杂度要求O(n)2. check 1point3acres for more.
8.Write a fibonacci function (iterative, constant space)

12.hashtable的存储寻找空间时间复杂度之类的东西，然后我就叽里咕噜的把各种openhash，closehash，各种解决collision的概念说了一遍

22. show tweets for common friends, (b tweets a, c can see this tweet only when a and b are both friends of c),

28.给一个数组，对每一个元素，找出在它之前比它的第一个元素的值。如果没有比它小，则返回它 for example: input {3, 5, 2, 6, 9, 7, 10}8 E8 w& @' y! `) U: n
output {3, 3, 2, 2, 6, 6, 7} 用一个栈存递增序列，O(n)解决。

1.什么是encapsulation，优缺点
2.abstract class
3.什么是static method，有什么用途

manager对每一次的实习经历问你干了什么你的mentor对你什么评价你觉得你的优点是什么你的缺点是什么你的mentor认为你应该提高什么地方

之后做了一2D matrix Zigzag Traversal，把途中经过的数字print出来即可

如果我有机会和你这个实习的mentor/manager沟通的话，你觉得他会说你的最大的优点和缺点是什么。