

55 Facebook 黑经 12.6

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214910&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

题目是给定W*H的Grid, 给出算法在其中随机均匀地放M颗地雷。

水塘抽样, O(m)的算法BUG FREE写出来了。其实我面试前在地里还回答过这个问题的帖子... <http://www.1point3acres.com/bbs/...p;page=1#pid2638107>

面试官问了个问题, 也回答上来了。前后聊天都十分愉快。

56 Facebook 实习一面 5分钟前的新鲜面经11.2

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208573&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

第一题: Valid Palindrome, 跟原题不同的是, 大小写不同也算错。比如'A'和'a'是不一样的。没有followup。

第二题: 类似Meeting Rooms2, 输出最大overlap的数量。跟原题不同的是, [3,5]和[5,5]这两个interval也算overlap, 应该输出2, 而不是1。所以只要把原题的intervals.start >= heap.peek()改成>就可以了。

面试官画的图解释:

1 2 3 4 5

-

这个5的地方算overlap。

57 facebook 实习 10.21

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=206882&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

问了moveZero的变种, 就是要moveZero到前面, moveOne到后面, 不改变顺序

我写了2 pass

然后问given a 2D mxn matrix full if 1 and 0, find the largest square with only 1 inside. Calculate the time complexity.

这题我估计错了 但是他还让我过了 - -

很感谢抬了我一手不然肯定挂了

第二轮一个new york来的白人

问most interesting project

问了sort color, valid parenthesis, subset II的变种, 秒了

他还说本来想给我add constraint但都是best solution了哈哈

然后聊了聊他以前的project还给我讲故事

58 FACEBOOK Intern 2面 11.13

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210353&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

2, Kth Smallest Element in Array LC215 (最大最小的区别而已)

1, LC121

2, LC121

3, LC122

4, 最后剩不到十分钟, 问我还做不做, 我就说来做吧。

是给你一个Pair (M, N) 代表坐标, 你从(1, 1)出发, 每次 (x, y) => (x + y, y) or (x, x + y)向右下方移动, 如果能达到(M, N)就是True, 反之False

我一开始说BFS, 面试官说不是最优, 最优是 O(m+n), 然后就到QA环节了。

之后自己想了下, 可以从(M, N) 出发, M 和 N 必定一大一小, 否则不可能满足上述条件。所以两者中较大是 X + Y, 较小是 X 或 Y。

由此从右下往左上反推, 每一步都只可能有一个路径, 所以最终能到达(1, 1)则为 True。

59 Facebook 实习二面 10分钟前水水的面经11.12

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210152&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

第一题: Validate BST, 解释了下思路, 直接用递归写了, 分析了下时间复杂度, 没有followup。

第二题: 3 Sum, 返回值是boolean。解释了下思路, 说了下复杂度, 直接sort解法写完了。此时还剩15分钟以为会继续让我用hash做, 或者出第三题, 结果直接让我问问题。。

60 FB一面12.3

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214602&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

第一题: Valid Palindrome, 跟原题不同的是, 大小写不同也算错。比如'A'和'a'是不一样的。没有followup。

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第一题：merge intervals，楼主先说了下解法，说完后很快写完了，然后姐姐说那你口头跑一下case吧，然后lz用代码和姐姐给的case说着跑了一遍。

第二题：insert interval，楼主这道反应得比较慢，想了一会后开始说了说解法，然后开始code，楼主先linear search新的interval应该插进的位置然后放进merge好的intervals，然后call一遍第一题写好的函数merge一下，但是这里面有allocate新的array，所以需要extra space。写好后姐姐说ok，时间复杂度？说完之后姐姐又问了一个follow up，你能不能“do it in place”，楼主当时就卡在那了，想了一会in place的解法，然后写了写，写出了一些bug，然后中间楼主停顿了好一会，当时楼主心想这回要完了。。。最后45分钟过去了，姐姐说好了你可以问我问题了。

61 新鲜Facebook 电面面经【本科实习】11.8

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209521&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

题目确实蛮简单，就是在象棋棋盘上给你两个点A，B，问一个Knight（大哥说，就是骑马那个哈）最少要几步从A跳到B。露珠从来没玩过国际象棋，于是问Knight咋走。Turns out只要走任意朝向的L形就好。具体来说，如coordinate是(x,y) 那么在这里的一只knight可以跳到八个position中任何一个：(x-2,y-1);(x-2,y+1);(x+2,y-1);(x+2,y+1);(x-1,y+2);(x-1,y-2);(x+1,y-2);(x+1,y+2)。

露珠做了个integer matrix，全都initialize成max integer，把A那个set成0，然后recursive call update matrix。

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<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209517&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

find the k-th largest number in an unsorted array of length n.

follow up, what if n is much greater than k. 比如n=1000000000，k=10

63 FB一面求过12.4

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214651&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

问了一道deep copy一个带random指针的链表。这题太久以前做的，一下没想出来。。。磕磕绊绊写完，被说有几个bug，讲思路&改完bug已经35分钟了

然后follow up问有没有其他bad solutions或者其他好的solutions，想了半天就说了用额外空间无脑存储指针标记的办法，然后问了一下这个的复杂度。

64 FB 第一轮电面 求过~11.29

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213829&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

1. move zeros
2. number of islands

65刚刚面完的fb二面12.2

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214379&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

这次面试就一道问题，给一个function get_friends(A) 能得到A的所有朋友，求get_friends_of_friends(A)

口头跑程序，run了好多个case，一开始我把所有和A有关系的“朋友”都找出来了，后面面试官提示只要找A的朋友的朋友（2层）并且找到的不能含A的朋友。就是一个图的搜索，并记录图的深度degree.....

66Facebook实习电面11.12

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210280&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

第一面，两道题：

1. 3 Sum
2. Merge K sorted List.

第一道题开始卡了，后来做出来了；第二道题写完后，interviewer 说可以优化一下，就是如果priorityqueue里面只剩一个list时候，可以直接merge不用在用PQ处理了

第二面，一道题目：

word break，我首先写了递归version，说了下复杂度；然后他说能不能优化一下，写了个DP版本；接着说dic可能很大怎么办，我说建立字典树，然后写，基本完成了，不过又个bug，他给我指出了，我硬是没看出来

67 新鲜fb面经12.3

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214546&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=214546&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214546&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

12.2刚面的。

第一题：

valid palindrome

第二题：

validate BST

68FB intern 面经，顺便求比较Apple和FB的intern offer11.30

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214112&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

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First round: 电面，sparse vector dot product，地理有面经，follow up是如果一个vector很长另一个很短应该怎么优化。

Second round: Seattle onsite，两道：

leetcode 398 Random Pick Index，有一点改动，就是只返回最大值的index。

leetcode 91 Decode Ways。

69 FB电面一面 11.29

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213871&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=213871&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213871&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题 类似sort color，给一个字符串，给一个api int f(int)，返回值是1，2，3，根据返回值排序。

followup，其他一样，返回值是0到k-1。找小哥要hint小哥告诉我最优解的时间on空间ok。。。当时捣鼓了半天我也没想出最优解怎么搞，最后写了个空间on的交了。

第二题 random subset of size K。

70 Facebook last round phone interview11.30

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214098&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

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1st round: given the in-order traversal list of a binary search tree, generate the tree

2nd round: given a list, generate all unique combinations of the elements

71 Fb intern 1面 11.29

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[mod=viewthread&tid=213785&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213785&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

fb一面 one distance 原题 但是不能用substring；突然说改用char紧张到不会做

72 FB电面 11.17

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第一题 divide integer without division 我说用bitwise做，小哥说不用这个。然后他告诉了我用加减法也能做，然后给我idea叫我写代码

第二个题 convert a binary tree to a circle, double linked list...就是double linked list然后头尾连起来

我用的recursion，写的磕磕碰碰。。。小哥提示了一下写完了

73 Facebook 10.25 二面10.26

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207525&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=207525&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207525&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

1. move zeors, 要求minimize writes。楼主看到他贴了这道题上来，太兴奋了，写了个两个指针一起从左往右的方法。写完了才发现要minimize writes。于是重新写，左右指针相撞的方法，重新写，结果出了个小bug...面试官提醒有bug后，自己发现了，赶紧改了。

2. decode ways，一开始提了下backtracking，说复杂度太高，后来就dp了，dp 写完之后，优化了一下空间复杂度

74 FB店面kthLargestNumber 11.18

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=211200&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=211200&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=211200&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

find kth largest number in an array

先讨论了heap和 quick select的解法和复杂度

实现了quickselect的解法

75, Facebook电面一轮11.27

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213560&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

1. 找一个字符串所有回文子字符串的个数

2. Meeting room II

76 FB intern 跪经11.15

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210730&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

第一题

利扣257, 打印path不用回传, 瞬秒, 那天面试之前把FB tag的题目全部再做一遍

问我时间复杂度,我说O(n) 他说不对, 要考虑print path 的时间复杂度, ok $depth * 2^{depth} \Rightarrow O(n \log(n))$

在这时间复杂度上跟我耗了15分钟

此时剩15分钟

第二题

利扣76, 不一样的是T给的是set, 不会有重复, 一样瞬秒, 开始问我时间复杂度, 我说O(n)他又开始一顿扯, 我说T的size 并不影响, 最后他同意

最后要我写test case, 后来当T 是空的时候会有问题, 我马上改了bug就结束让我问问题了

77Facebook 校园 11.26

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213536&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

1. leetcode moves zeros

2. leetcode max length of array sum K

78 Facebook第二次电面一般般 11.1

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213102&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

写个BST 的 in-order iterator. 要写的function有 next() 和 all(), next 一次return 下一个node; all() return所以剩下的。follow up是 改成 preorder 和 postorder。我全用的stack

79 脸家实习onsite 11.23

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213102&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

1. find the second most frequent element in an array

2. print a binary tree by columns (LC314)

二面是上周11/17, 在Menlo Uday. 问了minimal window substring(LC76), 但是稍微改了一点是要求substring包含这个string的所有出现

字母。不过做起来是一样的 :D

80,脸书实习店面 1.15

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=222745&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

上上周一面三个问题, 面试官感觉是个印度的姐姐, 挺奈斯的, 有一点点口音, 但完全不影响交流。电话接通, 寒暄不到一分钟, 直接上题。

1. 利特抠的二一五 给个序列, 找出第k个最大值, 原题

2. 给一个二叉树, 找出从一个叶节点到另一个叶节点最长的路径, 返回路径的长度

3. 利特抠的一五二 原题

都问了复杂度

就一个问题, 会议房间2, 原题, 问了复杂度, 然后一个跟踪问题, 返回每个房间 所有的会议 的开始时间和结束时间。让我自己写了几个测试例子, 然后测试一下自己的代码。

81, FB Intern 1.10第二轮电面 1.15

<http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=222788&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311>

一共一道题加followup, 给2D平面上一系列点和一个目标点, 求离目标最近的K个点, 这道题在地里见过但是LC上没有, 之前没写过。。。

先用map和优先队列做的, 然后分析时间空间复杂度,

然后followup问我有没有什么更快的算法，一下没想起来，提示了下借鉴快排的思想，想起来了quickselect，然后他给了我一个partition函数让我写调用这个函数的循环。面试一共45分钟。

82, Facebook 实习电1, 不知为何被拒, 求建议 1.17

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=222973&pid=2740673&page=1&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%255B3090%255D%255Bvalue%255D%3D2%26searchoption%255B3090%255D%255Btype%255D%3Dradio%26searchoption%255B3046%255D%255Bvalue%255D%3D2%26searchoption%255B3046%255D%255Btype%255D%3Dradio#pid2740673)

[mod=viewthread&tid=222973&pid=2740673&page=1&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%255B3090%255D%255Bvalue%255D%3D2%26searchoption%255B3090%255D%255Btype%255D%3Dradio%26searchoption%255B3046%255D%255Bvalue%255D%3D2%26searchoption%255B3046%255D%255Btype%255D%3Dradio#pid2740673](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=222973&pid=2740673&page=1&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%255B3090%255D%255Bvalue%255D%3D2%26searchoption%255B3090%255D%255Btype%255D%3Dradio%26searchoption%255B3046%255D%255Bvalue%255D%3D2%26searchoption%255B3046%255D%255Btype%255D%3Dradio#pid2740673)

remove island that less than k size

类似数岛，区别在于要先算出岛的大小，如果岛小于k，就把整个岛删除掉。思路比较清楚，就边聊边用DFS完成。

写完代码时面试官说我可以选择不运行代码，给她解释通就行，我猜可能是想放水帮我。但我倾向于写好代码跑一下，所以就说跑一下吧，结果发现两个typo，改正过程比较顺利。

第二问：

merge intervals，根据经验intervals的题都和排序多少有点关系，就先排序，面试官也提示说反正输出结果要排序，然后也很顺利的做出来了。直接运行bug free。

83, 今早fb intern一面面经 1.17

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=223065&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=223065&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=223065&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

1.判断一个序列是否是递增递减序列，地里有面经

2.3Sum 返回一组满足条件的值就行，follow up问数组里的值能重复使用怎么办？用了类似combination sum的方法递归求解。

84, Facebook实习面经+timeline顺便请教1.17

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=223078&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=223078&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=223078&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

一道LC91 decode ways。这题以前做过，当时面试有点紧张，第一遍写的是O(n)空间复杂度的DP解法，有几个小bug。小哥让我自己写几个test cases并且人工run一下。在分析test case的时候发现了bug并改了过来。Follow up就问了下有没有constant space的解法。

11月底二面，国人大哥，还是校友。一上来就是做题，LC273把数字转换成英语。然后还是要人工run test cases。题目是和Reservoir Sampling相关的，具体解法可以参考<http://www.geeksforgeeks.org/reservoir-sampling/>。

12月中旬加面，第一道题3sum，返回有没有就行。但他不按套路出牌，问我最直接的解法是什么。我楞了一下，说三个for循环？大叔居然很开心地说就是这样。。。然后贴了暴力解法的代码让我分析，让我回答这个代码有什么问题。具体代码就是三个for循环，但是index都是从0开始，所以会有重复用同一个数的问题。然后问我怎么fix这个bug，就是把每个循环的起始index变成i+1，i是上一层循环的当前index。接下来就问我时间复杂度，有没有更优解。第二题是找名人，很快就秒了

85 【面经】Facebook, Snapchat, Uber, Linkedin实习面经，回报地里~ 10.20

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[mod=viewthread&tid=206592&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=206592&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一轮，一个中东人小哥，是Facebook New York的，不知道怎么的一进去感觉就对我没什么兴趣的样子。题都很简单，我也写了Bug free，但是奇怪的第一轮挂掉了

86 Facebook 11.2 intern一轮面试 11.3

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208764&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=208764&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208764&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

1.divide two intergers

当时写的很快，解释+bug free大概10分钟。但是英语真的很渣，解释半天都没有说清楚，最后面试官估计无奈就开了下一题。

2.convert binary tree to doubly linked list

这个题有一些改变，不能定义新的数据结构，也不能使用额外的空间。空间复杂度要求O(1)。

一开始没听清要求，快速写完了。后来花了10多分钟才改过来bug free。

87 Fb 二面 11.2

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[mod=viewthread&tid=208598&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208598&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

coding: 1. Binary Tree Vertical Order Traversal

2. Decode ways

88, FB intern面经 11.5

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[mod=viewthread&tid=209181&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209181&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

natural string compare

89, Facebook 电面 11.6

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209275&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D)

[mod=viewthread&tid=209275&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209275&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D)

%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311

LC 原题 Add and Search Word。 面试时间45 分钟。

90 FB Intern 面经 10.29

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208044&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=208044&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208044&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题level order traversal, 打印出每层最大的两个数字, 如果不到2个, 就打印null.

第二题random return number according to weight, 之前的面经里有。

10.28 第二轮:

第一题prime product, follow-up如果有重复怎么办, 就跟LC上的subsets几乎一模一样。

最后还剩10分钟扔给我一道regex matching, 让我说思路就行, 我说DP, 但他偏说喜欢递归。。。幸好时间不多了, 没让写代码, 自己从没写过递归版本的。。。

91 facebook实习一面新鲜面经—高频变种sortCategory! 11.5

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209155&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=209155&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209155&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

给定一个API getCategory(int n), return {L| M| H} 三种category

第一问 --- 给定一个Array, [4,2,5,7,8,9], 对于每一个int, 有一个category, sort them by category

很简单, 用sortcolor: <https://leetcode.com/problems/sort-colors/> 就可以解决, 两个ptr, 一个前一个后。LZ不小心有一个bug (for loop 不太对), 但是测试的时候找到了。

第二问 ---- 如果这个时候有K个category, 应该怎么办?

顺着上一题的思路, 我的想法是将 (0,1, ..., k-1) category 分成 (0) --> L, (1, k-2) --> M, (k-1) --> H, 然后相同的思想继续call 之前的function, 然后reduce为 (1, k-2) 的range, 重复之前的事情

92 FB on campus 一面 11.1

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208515&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=208515&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208515&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一道找出second most frequent element in an array of chars, 第二道print a binary tree by column。

93 【实习】facebook 最新一面电面面经 11.12

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210175&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=210175&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210175&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

给出了很多用户的访问时间, 要求给出最大的同时访问user数。

1. 就是meeting rooms 2,变化的一点是, endTime和startTime时间重合的话算访问一次。

2. follow up是 将返回所有最

大的时间段, 以Range类的形式返回

94 2个小时前新鲜面经 ml sde 11.11

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210056&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=210056&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210056&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

面试白人小哥。口音很清晰 很能聊 但迟到了10分钟。

1, mutual friends, 已知一个function可以return 给定某人的friends。找出A B的mutual friends。

2, friend recommendation。聊了大概十分钟对recommendation的想法。最后问题是给定person A 返回一个list 包含推荐给A的不认识的人。顺序按照与A的mutual friends 的数量排。

95 Facebook Oct Nov 3轮面试 经验 11.5

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209156&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=209156&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209156&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

1 BST to Double Linked List (in place)

2 Palindrome 修改

3 LCA

4 Move Zeros

5 First Bad Version

6 Shortest Path between 2 nodes in Graph

96 Facebook Nov 7 电面面经 11.14

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210456&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=210456&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210456&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题是给你一个字符串, 里面包含三种括号, 问这个括号表达式是不是平衡的。这道题之前做Cloudera OA的时候遇到过, 用一个stack扫一遍即可。需要特别注意一些corner cases, 比如string为空, 出现括号以外的字符如何处理, 最后stack是否为空等等。印度大哥比较满意, 不过还是被他发现了一个bug, 就是如果一开始的string是null如何处理。

第二题是第一题的follow up, 删掉最少的字符, 使得一个不平衡的括号表达式变得平衡, 返回任意一种解法均可。这道题一开始我想复杂了, 用了bfs + 搜索剪枝来做。写完代码, 印度大哥表示太复杂了, 提示只需要简单修改一下第一问的代码。于是我猛然想到, 第一问中判定false的情况, 如何纠正才能使得结果字符串平衡? 简而言之, 如果遇到多余的右括号, 就直接删去。如果扫完一遍之后stack里面还有剩余的左括号, 也直接删去。按照这个思路说了一遍, 印度大哥表示满意, 因为时间有限, 没有让写代码。

97 10.24 facebook intern一面 10.25

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207395&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=207395&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207395&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

- 1.判断一个int[] 是否是monotonous的
- 2.3Sum弱智版, 求和为0的一组, 返回一个结果就行
- 3.Previous Permutation, 7531->7513

98 [积攒RP]facebook热乎店面分享 11.4

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208985&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=208985&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208985&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题: 给你两个sparse vector (含有大量的0), 问你如何做dot product

- 楼主:暴力双循环, skip 0.
- 面试官:不急着写, 你想想有什么好办法存vector?
- 琢磨了好久, 说要不我们用hashmap存value和index
- 面试官继续追问, hashmap会有空的空间, 我们有memory限制, 你怎么办
- 楼主:那用arraylist存pair?
- 面试官: 这个还差不多, 那你打算怎么求解?
- 楼主: 排序, two pointer?
- 面试官: 好, 你写吧。写完后追问了时间复杂度

第二题: 3sum, followup 时间复杂度

99 fb intern 电面 一轮 11.4

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208996&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=208996&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208996&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题: minimum window substring

第二题: longest arithmetic subsequence

100 Facebook Intern 电面面经 11.13

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[mod=viewthread&tid=210299&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210299&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题有点像Leetcode325 Maximum Size Subarray Sum Equals k, 只需要判断是否存在, 返回boolean, 用一个set做就可以, 我一上来傻乎乎的写了map。。

第二题decode ways,出了个小bug, 该i+1的写成了i..然后followup是如果给的value不连续, 比如a:78, b:539, ..., 怎么办。。我说可以backtracking, 然后简单说了一下怎么搞。。

希望不管过没过能早一点出消息, 有一个一般般的offer感恩节左右就得decided了。。

101 Facebook Intern电面 1.5

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=161904&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=161904&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=161904&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题是Valid Palindrome, 我写完后说我有bug, 我给她解释后她说是她错了。

第二题是Task Schedule, 地里有面经。

followup是tasks是无序的, 大致讲了一下思路, 期间也让三姐提示了一下, 时间就到了。问了几个问题结束。

102 fb实习电面一轮已挂 11.5

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209154&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=209154&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=209154&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

给一个一维的整数组, 在每两个数之间填上"+", "-", 或者什么都不填 (也就是和前面数字结合), 这样得到一个公式, 求出结果可以是0的公式数量。

103 Facebook Intern一面 11.16

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210792&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=210792&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210792&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

1. input: "dog bites me" output:"me bites dog"
- 2.subsets 我用非递归写的, 写完解释正确性 时间复杂度。
- 3.subsets 用递归再写一遍。。解释正确性
- 4.follow up 有一个class 里面有个方法next(), 每次调用next()输出上面subsets中的一个

104 facebook intern 电面 11.15

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210606&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=210606&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210606&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

1: 二进制字符串求和 follow up: 因为我用了string.push_back(c) 他问我push_back是如何实现的 时间复杂度是多少

如果让我来设计string我会用什么数据结构来设计 如果执行push_front()时间复杂度是多少, 我会怎么设计

2. 3sum

105 回报大家FB 面经! 顺便求大米 11.17

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=211079&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=211079&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=211079&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一面: 国人妹子 人特别好

LC 56

LC 33

第二面: 国人大哥 人也特好 各种引导

LC 209

106 脸谱新鲜面经 11.19

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=211299&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=211299&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=211299&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

一道把排好序的数组每个element平方, 输出还是排好序的, 另一道电话号码转字母

107 FB On-Campus Interview 10/27 10.28

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207868&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=207868&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207868&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题: Move Zeros, LeetCode原题

第二题: Target Sum: Given a string of numbers (ex: "1234"), place any number of operators (+/-) in between numbers, so that they are equal to the target sum, return the number of all possibilities.

108 Facebook电面 10.22

[http://www.1point3acres.com/bbs/forum.php?](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207049&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

[mod=viewthread&tid=207049&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207049&extra=page%3D3%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3090%5D%5Bvalue%5D%3D2%26searchoption%5B3090%5D%5Btype%5D%3Dradio%26searchoption%5B3046%5D%5Bvalue%5D%3D2%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)

第一题: 给一个字符串 such as: "GoogleFacebookMicrosoft", 由字母构成, 然后给一个字典, 把给定的字符按照字典进行切割, 然后输出分割后的一个解答, 例如: dict=['Google', 'Facebook', 'Microsoft', 'GoogleFace', 'bookMicrosoft']

如果有多个解答, 输出一个即可, 对于这个例子显然有两个解答, "Google Facebook Microsoft", "GoogleFace bookMicrosoft". 随便输出一个就行

我回答, 递归可以做, 然后给出了答案, 分析了复杂度 $O(n^m)$ 。这里复杂度分析卡了一下, 不过还好

followup, 有没有其他方法可以做? 我说可以DP做, $f[i] = \text{True}$ 意味着 $0 \sim i-1$ 存在 matching, 为了输出一个solution, 用 $g[i+\text{len}(w)] = i$ 记录结果, 然后回溯方法可以输出一个答案。interviewer跑了个conner case比较满意。