Phone

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| --- | --- | --- |
| 题目 | 日期 | 讨论，答案 |
| LC162 Find Peak Element变种  给一个数组，例如[8,5,3,6,1,4,7], 返回任意一个local minimum，也就是任意一个谷值，比如在这个例子里，返回3和1都是正确的。数组没有重复的数，所以不会出现[1,1,1,1,1]这种没有结果的情况情况。 | [2018.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=317786&pid=3478874&page=1&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%255B3089%255D%255Bvalue%255D%255B2%255D%3D2%26searchoption%255B3089%255D%255Btype%255D%3Dcheckbox)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=305774&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=269865&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=303600&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=218500&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 1. 假装不知道有logn，先写了O(n),然后她问能不能再快点，我说logn用binary search。  其它问题  most interesting project  问了些exception的问题 |
| 题目是：“all” ，“There is all in all, two all”  输出：“There is <b>all</b> in <b>all</b>, two all”; | [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=302282&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D) | 1. 题目很简单，扫描一遍字符串就行 |
| 1. 问题是输入一组word，找出duplicate  例如输入 "abc def ghi abc"，输出abc即可  2. follow up输出最早出现的duplicate  输入 "abc def ghi jkl ghi abc"，这里应该输出abc. 因为在有duplicate的单词中，abc第一次出现的最早  3. follow up如果这是一个real world的function怎么办，比如说你的输入是一本杂志里面的词，找出所有duplicate的词。这里的意思是，真实中的输入不一定严格的以一个空格隔开每个单词（不能简单用split(“ ”)），不一定全部小写等等 | [2016.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=173293&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=205671&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=166518&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=204749&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 1. lz答首先处理成全部小写，然后把单词分隔开，可以用trie来省内存（要是内存放不下还可以放进disk），然后说了一下因为现实中有些词出现次数很多但是没什么意义的，比如I, you, he, she这些，可以另外设置一个filter来把这些不valuable的输出过滤掉（小哥表示赞同），最后又补充了可以多台机器一起做。（小哥表示对的你是不是有什么distributed system的经验，其实lz并没有，我就说之后有project会涉及到所以有点点了解）  2. 第一问 hashset 第二问 hashmap存最早的index |
| Reverse String 和HTML Entity.  "yo man" -> "nam oy"  &yen; &also;作为两个整体  &&;;最内部的&;作为整体  "a&&nbsp;;b" 翻过来应该是b;&nbsp;&a  跟leetcode reverse word in string 2 类似  比如"123&euro;432&euro;"，reverse完应该是"&euro;234&euro;321"  // "1234&euro;" => &euro;4321"  // "1234&euro" => "orue&4321"  // "1234&euro;567" => "765&euro;4321"  Follow up:  aaa;aaa &amp; bbb;;; ，就是有很多“ ；”，然后翻过来应该是 ;;;bbb &amp; aaa; aaa 就是找最近的&xxx; | [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=165241&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%a26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=160879&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=171915&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=162210&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=206612&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2015.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=146714&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=217649&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=216870&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=212898&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214319&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208780&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=204725&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=161548&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=165506&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=158403&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=159843&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2015.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=144324&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 1. 本来想用StringBuilder insert(0,string) 这样从后往前insert,被提醒了复杂度。  2. 会问一些复杂度问题，java的话上string buffer就行了, reverse html注意"a&&nbsp;;b"这样的情况就行  3. html entity有一个特性：&开头 ;结尾， 用这个特性来traverse string，碰到&就把前面的substring翻转一下并存到list里面，然后查一下;在不在剩下的string 里面eg. "1234&euro;" => ["4321", "&euro;"]最后把这个list从后往前traverse一遍，产生新的string就行  [**Java 代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=160879&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%255B3089%255D%255Bvalue%255D%255B2%255D%3D2%26searchoption%255B3089%255D%255Btype%255D%3Dcheckbox%26searchoption%255B3046%255)  **[Java代码](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=217649)** |
| 【summary range】LC228  用了stringbuilder， 遍历一遍，o(n)时间复杂度。  Follow up 1 然后问，如果输入为[1,2,3,4,5,.......100000, 300000] 这种情况怎么办，有没有更好的方式，回答binary search  Follow up 2: 有duplicate  Follow up 3: 输入改为无序、有重复，请设计优于O(n)时间复杂度的算法。  怎么样改进代码可以更适合real world（？），我当时多用了一个stringbuilder...给删了  Follow up 4:  [-3, -2, 1, 2, 3, 5, 8, 10, 11, 12, 15], does your code still work?  Follow up 5:  Another Array [1, 3, 5, 8, 12, 16], new output "1-5/2, 8-16/4" 2 and 4 are distances,  ---------  input: [1, 2, 3, 5, 8, 10, 11, 12, 13, 14]  output: "1-3, 5, 8, 10-14"  Follow up:  假如说输入的数组没有排序，如何优化？  e.g. input: [1, 3, 9, 2, 4, 5]  Explain Algorithm, Time Complexity  Go through example, how index updated and condition evaluated in each line | [2017.6](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=282676&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D)  [2017.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=292816&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=173601&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=220358&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=215418&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=218352&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208463&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=171888&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=161460&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=292025&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 1. 开始先问了一下简历以及经历，最擅长的领域，最熟悉什么数据结构，回答HashTable, 然后问了实现方式，以及不同实现方式的差别，实用范围等等。15分钟后开始做题  2. Follow up 1 **[Java代码](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=282676)**  3. Follow up 3[**Java代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=292816&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  4. Follow up 4 原代码依然work，也可以用Math.abs() instead of nums - num[i - 1];  5. Follow up 5  need add a new variable to record distance initialize distance to -1, reset after appending range/distance string  Follow up 5[**Java代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=173601&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  大概就是从左往右扫一次就可以完成了，遇到连续的就记一下右边界，左边界也记着，遇到不连续的来了，就把前面的1-3输出，单个的也输出，注意一下边界条件，包括到了最后面的情况，好像并没有跑，只是手动run test，这算是一个小面试技巧，你创建一个test case，然后一步一步看各个值是多少，人工跑一次看对不对。  Follow up: 楼主想法是：使用Interval来解决  Interval {  int start;  int end;  }  然后过一次数组，丢到一个Set里，再从index = 0 开始，创建一个Interval，往左往右看，是不是可以Grow这个interval，例如：  1 - 1-2 -> 1-3 -> 1-4 -> 1-5  这样Set里只有 [9] 一个了，然后就输出第二个interval,  output: 1-5, 9  [**Java 代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=292025&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |
| 【Expiring Map】  给一个expiring map， 你可以一直往里面put东西，这些东西都有个过期值，一旦过期就get不到了  第一个follow up： 如果在4个小时内你的程序挂了，可能是什么原因 --->  第二个 follow up： 如果用heap的话可以解决上面的问题，但是put时间变成了 O(k log n）怎么办？  第三 follow up： put 从原来o（1） 变成了O(k log n）， 怎么解决？ | [2017.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=310720&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=302898&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.2](http://www.1point3acres.com/bbs/thread-233635-1-1.html)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=299267&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=295309&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=292633&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=218542&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=223359&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=214548&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=204584&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=211293&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=204132&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.7](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=197737&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=215279) | 1. 用了PriorityQueue维护  2. 背题痕迹重fail  3.[**Java 代码**](http://www.1point3acres.com/bbs/thread-233635-1-1.html)  [多线程代码](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=292633&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D)  Follow up 1.  比如你一直put，永远不get，内存就会挂  Follow up 2  lz是在put的时候remove 已经expired的东西，这样会remove k个已经expired的东西，每次remove时间是log n， 所以put 从原来o（1） 变成了O(k log n）， 怎么解决  Follow up 3  lz说用多线程，put 只是put 到 hashmap 和 heap 里面， 但是不从heap remove。 put 从原来的 O(1）变成了 O(log n），然后用另外一个线程来做remove 操作。  4. 刚开始写了put是O(1)， get是O(n)，说效率不行。然后就按照地里的帖子说搞另一个thread，来定时remove，问遇到concurrency咋办，答加锁。 |
| check any permutation of an input string is a palindrome | [2017.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=307737&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.8](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=200390&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| 给一个list， 如何把里面的字符分配到尽量少的子list里，并且每个子list没有重复元素。  比如  ['a','b','c','a','a','b']， 可以分成['a', 'b', 'c'], ['a', 'b'], ['a']  ['a', 'a', 'a', 'b', 'b', 'b']，可以分成['a', 'b'], ['a', 'b'], ['a', 'b'] | [2017.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=311815&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300909&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300578&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.4](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=277979&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=299068&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.8](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=200071&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 在hackerrank 上面做的题， 上面可以直接用一些 hardcode 的 test case 做测试。 还是要仔细点， 我就是写完代码之后， 没检查太多， 直接就去run， 然后报错了好几次， 虽然最终没影响到面试结果，但是总归还是要仔细点。我的做法是这样的：遍历一边，把所以的字母放到一个map里面，这一遍便利也找到最多的count， 然后就根据最大的count去创建二维数组。 接着第二遍便利， 根据map里面的value去找这个字母应该被放到那个subarray里面， 之后再把map 里面的value -1.  [**Java代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=200071&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |
| Validate Python | [2016 .11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=210786&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 见onsite |
| intersection of two sorted listed  follow up 1有duplicate怎么办  follow up 2 找n个list的intersection | [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=217728&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| 有整形数据流，求过去五分钟来的所有整数的mean | [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=298736&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [[2017.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=310720&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=310720&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 1. 写了个List，创建了自己的数据类来存val和timeStamp，新的后面加List，过期的在头部删除。  把删除的部分放在了main()函数里，follow-up说这样太慢，就提出来放到一个cleaner()函数里，同时写了个Thread 没过一段时间跑一次cleaner()，  同时mean()里面也要先调用cleaner。然后被问到多线程需要注意啥，就指出一段code是critical section，要用锁保护。  多线程的话， 都上锁比较影响效率，可以考虑用synchronized关键字，把需要Thread-safe的东西保护起来。可以用Collections.synchronizedcList 给List加一层保护，再用 synchronized关键字。  [**Java 代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=298736&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  2.解法：Queue记录，pop超时的object。然后求中位数。解法：在queue的基础上，再用two priorityQueue，表示满意, 插入O(logN), 查找操作大概O(NlogN)。 |
| excel sheet column title (从0开始 0->A) (LC168)  followup比如%26改成%3  字符串如何移动复杂度之类 | [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=165093&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2015.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=143941&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=160168&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| 给定一个Binary Search Tree 的Node class，里面有左子树，右子树还有一个int的信息，问如何使用一种方式减少这个Node的overhead | [2016.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=212498&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | [讨论](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=171444&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B3%5D%3D3%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |
| merge sorted array，要去除duplicate  e.g. int[] a = {1,2,3,4};  int[] b = {2,4,5};.返回 {1，2，3，4，5}  Follow up是union of k sorted arrays | [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=207316&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.4](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=188538&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2018.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=336064)  [2017.5](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=280495)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=303983) |  |
| merge k sorted list into one list of integer.在hackerank上写，而且小哥自己定义了个interface叫做sortedStream, 里面有boolean move()和int value()，功能上是负责来iterate这个stream里的integer。自己写个实现它的class来implement,  然后需要run出来 | [2016.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=201931&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 用priorityQueue写了一下下，然后写的Comparator里被发现了一个bug,改之然后run过去 |
| given a String and a length return the string  回傳長度以內的完整word如果遇到space 去掉  ex:  search for jobs  n=3 return null;  n=6 or 7 return search  n=13, return search for | [2016.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=171448&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| Two sum 但只问是否存在  Two sum in sorted array, 也只问存在与否  unordered\_map 在 STL 里怎么实作? | [2015.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=142012&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| sorted array里找median | [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=156173&extra=page%3D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2018.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=336064) |  |
| 积分不够： | [2016.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=203157&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D) |  |
| 积分不够： | [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=299600&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| 积分不够： | [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=297549&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |

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| --- | --- | --- |
| 题目 | 日期 | 讨论， 答案 |
| Validate Python  1. 刚开始不能缩进  2. control block的下一行要缩进  3. 缩进要一样  The input is String[], each line is a string. if it's valid, return -1, otherwise return the line number.  follow up1: what is the last line is control block?  follow up2: what if there is comment line (" #"). | [2017.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=310720&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=216804&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2018.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=336064)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=305726)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=206636)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=179465)  [2018.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=339055) | 1. Stack，操作很复杂  [**2. Java代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=216457&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  如果python代码只有一行，这一行最后以：结尾，你这代码怎么办。我一看，擦，真没办法handle啊，但是不难，多加了个if就好了。  思路就是用boolean记录上一行是不是control block，然后计算每一行的space。  if isControlBlock:  if current space is <= stack.peek()  return false;  else  stack.push;  else:  compare the space with peek of stack until find invalid.  update isControlBlock |
| 给出专辑Number和Tracking Numbers。  比如说，  Album   Track  1            4  2            1  1            2  2            3  2            1  1            3  1            1  可以输出 (1,1),(1,2),(1,3),(1,4),(2,1),(2,2),(2,3)，也可以输出(2,1),(2,2),(2,3),(1,1),(1,2),(1,3),(1,4)。  要求随机输出听歌的顺序，要求同专辑歌的要在一起按顺序排列。 | [2017.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=310720&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 1. 解法：用Map<Integer, List<Integer>> 将统一专辑的track归类O(n)，然后sort (O(nlogn)), 然后随机输出。  随机是先生存0~n-1的list，random选择一个数，然后交换至队尾，然后再random一个范围-1的数，以此类推，time complexity:O(n) |
| 输入是一些列user + query word, 输出是每当进来一个query时，根据之前的query，要返回一个最相关的单词，这题能够保证同一个user，只会query某个单词一次。(上机)  具体看例子：  Input:  7  A python  B java  A java  B php  C python  C java  D java  Output:  0  0  0  0  1 java(因为目前A: pyhon java, B: java php, search过python的人中还search最多的是java，1次)  1 python php(此时 A: pyhon java, B: java php, C: python)  2 python(此时A: pyhon java, B: java php, C: python java) | [2017.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=310720&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=298088)  [2018.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=336064) | 1. 实现并且优化了这哥们第三个方法，pass了12/13个test cases。  <https://instant.1point3acres.com/thread/287906>  代码：Indeed Sum Up  IndeedPass12.java.zip  这道题我一开始一直在map如何设计上纠结着，naive的方法最后一直有三个case过不了，所以思考的过程是： map1<String, Set<String>> // user => the words he searched before  大概能过6个case，开始优化.加了个map2<String, List<String>> // word => list of users who searched this word before  这个的话大概又过了4个，还是有三个过不了，此时我心怀侥幸，一直在优化中间的过程，而不是在优化思想了，结果没成功。直到最后还有20分钟时，换掉了思路，用了一个这个map  map3<String, Map<String, Integer>> // word => related word and times  这样的话，每次一个新词进来，直接就能找到相关的词，然后找到出现次数最多的就好。然后再利用map1中这个user之前query的结果，去update map3。这个思路没有debug完，思路讲给了面试官听，他肯定了这个想法。 |
| 给n个sorted list（很长不能放入内存 有个iterator class的interface 能调用next(), hasNext(), peek()三个函数） 找出所有在不同lists里面至少出现k次的数（重复多次出现在一个list只算出现在一个list里面）  heap 空间O(n), 时间O(Nlogn) N为所有元素的个数  -------  consensus algorithm, 就是给你一堆stream input比如 s1 = [0 , 1, 3, 5] s2= [0, 1, 213, 444] s3= [0, 1, 2, 3, 4]. 给你一个target.比如target = 3 你就必须return [0, 1].意思就是0和1在不同的list出现了3次。  -------  例子:  [1,3,5,8,233] TargetNum=2  [0,1,1,3]  [0,0,5]  输出: 0,1,3  Interface Iterator{  int peek(){}; //返回steam的第一个element  int next(){}; //返回并删除stream的第一个element  bool hasNext(){}; //返回是否还有element  }  题目大意：  这个公司有很多candidate要筛选。每个有自己的ID。  现在给我一个stream of IDs 找出在所有stream中出现过 >= targetnum 次数的 candidate。  给一个list of Iterator 输出 list of int  假如 有n个steam, avg长度是m  面试官说 时间复杂度应该是 O(n\*m)。 | [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300909&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=215279)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=182049)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=216225)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=179465)  [2016.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213564)  [2016.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=201699)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=182369)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=148694)  [2015.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=147664)  [2016.5](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=191589&fromuid=273424)  [2017.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=236562&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | [Java 代码](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=148694)  然后统计每个数字在多少个stream出现的次数  利用了sorted stream的特性，遍历的时候，跳过每个stream里重复的数，所以在同一个steam里不会重复计数  [**Java 代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=236562&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) **-- wrong**  我想了半天，给了个solution，用hashmap<integer,List<integer>> 来存每个数，然后如果有相同的value, key就可以存到那个list 里面，然后判定下list.size()=target,然后就可以把那个数存入result里，结果他说内存不够用。 |
| unrolled linked list 实现 get(int idx) insert(char ch, int idx)两个函数  ==========================================  Given a LinkedList, every node contains a array. Every element of the array is char  implement two functions  1. get(int index) find the char at the index.  2. insert(char ch, int index) insert the char to the index  有follow up问如何更快，没答出来，说是用rope可以，不是很了解  ==========  他让写两个method，get和insert。get给一个index，你就check每个node接的那个array里面有多少个character，数一数，数到index所在的那个node然后就输出了。insert给一个index，一个char，这个稍微麻烦一点，先找到你要插入char的那个node，看它是不是满了，如果满了就新建一个node，然后接到原来的node后面。 | [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300909&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)  [2018.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=336064)  [2017.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=234862)  [2017.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=230320)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300718)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=305726)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=206636)  [2016.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213564)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=179465)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=182369)  [2018.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=339055)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=176965) |  |
| LC572. Subtree of Another Tree | [2017.6](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=285409&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| LC150. 输入字符带括号的四则混合运算(参见逆波兰表达式) | [2017.6](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=285409&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| LC257. Binary Tree Paths | [2017.6](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=285409&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| LC174. Dungeon games | [2017.6](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=285409&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| Moving Average  有follow up问如何很快的给出median，可以用linkedlist或者2 heaps维护，这样加入的时候会复杂很多但是维护和输出median很方便  ----  写一个类，有三个方法，getNow能获取当前时间，int record（int value）记录data point，double getAvg（）记录最近五分钟内的平均值，用queue维护最近五分钟的data point，用sum维护和就可以了。record和getAvg都得把五分钟以外的data point去除。follow up是如果memory不够怎么办. | [2017.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=230320)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300718)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=305726)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=158712&highlight=indeed%2Bcommit)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=303983)  [2017.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=230257)  [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=166760)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=206636)  [2015.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=145645)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=302903) | 代码在zip中  这题和电面的expired map是一样的，我说clean不及时会占用许多内存，可以来个多线程clean一下。白人小姐姐貌似不会多线程，不知道怎么吻下去了，一个劲的跟我说，不用多线程怎么做。我说不用多线程也能做，但是效果不理想，每次clean必须依靠在其他method身上，还是多线程好。然后shadoW大叔赶紧接过话茬，跟我接着聊多线程了，大叔肯定了我的想法，说多线程需要注意什么，我说concurrency，需要给get上锁，来个synchronize关键字就ok了。大叔表示同意  --------------------------------------  followup：get medium（解：quick select）--followup：如果getmedium用的很频繁怎么办（解：输入进queue的时候就sort） |
| match raw title to clean titles  就是说给一堆已有的clean titles，比如software engineer，把一个input raw title，比如senior software engineer与所有的clean titles比较，找出和raw title最overlap的clean title | [2017.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=230320) | 一想到的是最naïve的方法，在raw和每个clean比较之后，用hashmap来count raw和每个clean的overlap个数。我在想思路的时候也问了如果一个raw title里有重复的词怎么处理之类的，最后决定用set来keep track。。写完之后面试官问了复杂度，我回答之后他又问怎么优化，我感觉想了蛮久的，面试官也没提示，我最后憋出说要不先sort，具体是什么我给忘了lol。。。不是面试官想要的答案，他一开始说貌似不能优化时间吧，我就指着一段code跟他胡说了一通，他最后说好像可以什么的= =不知道他最后是怎么想的，反正之后时间到了他就跑了 |
| LC243 - 245 | [2017.5](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=280495)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=216225)  [2016.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=213564)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=176965) |  |
| profile id [上机题]  HackerRank 新题，我的解法不够优，很多大数据点超时了。大概是一个简历的系统，实现三个 API  1) update(String profileId, String field, String value);  2) get(String profileId, int version);.  3) getField(String profileId, int version, String field);  每个用户有一个 profile，然后 profile 里有各种 field 和对应的 value，第一次 update 之后的 version 是 1，再 update version 变成 2，依此类推 | [2017.5](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=280495)  [2017.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=230320)  [2017.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=230257)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=215279)  [2016.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=206636)  [2018.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=343425)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300909&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) | 之前面经有一个很重要的遗漏，就是get（profileid，version）需要返回的是所有小于等于给定version那个profile的fieldname和fieldvalue， 而不是只是那个version下的，而且返回值需要按fieldname排序，所以用treemap的floor会很有效率，  思路讲一下把：map<profileId, treemap<fieldname, treemap<version, fieldvalue>>>, 这样好处就是去掉了fieldname的重复，节省了空间。  [Java 代码](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=280495)  --------------  有20个tests很多大数据的tests 看面试的人的limit在哪里。过了7个tests，跟hr聊hr说他见过最厉害的过11个tests。可以带自己的电脑用自己熟悉的IDE然后再把电脑贴到hankerrank上面  [**C++ 代码**](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300909&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear)（resume\_versions.cpp） |
| Auto-complete  Question Description  Say I'm typing on a phone. Given a prefix String,and a dictionary.  Find all auto-complete word for the given prefix string | [2017.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=234862)  [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300718)  [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=303983)  [2017.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=230257) | 没什么新意，但是写出了trie 解法后，面试官一定要我想个其他的解法，然后我写了bst， 然后他还要我想个解法。。。我就用hashtable了。。。 |
| 就是给你一个List 里面有ads，然后写一个get() function，来随机get一个list里面的ad，不能重复，而且get 完了后 return null。  有一个follow up，如果每个元素都带一个概率权重，也就是，不是等概率而是有不同的概率的选择，咋实现呢 | [2017.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=234862)  [2017.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=307414) | 我开始就说random 一个 number，然后get 后， 就把get的ad 删掉。但是说这种时间复杂度比较高，要优化。 我就把我get到的这个ad swap到我的arraylist最后，就可以了 |
| git version  让实现bfs。然后让找两个commit最早的公共commit， | [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=158712&highlight=indeed%2Bcommit)  [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=166760)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=182049)  [2015.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=148694)  [2018.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=339055) | 先bfs搜索其中一个commit的所有ancestor，用hashmap存一下，然后bfs搜索第二个commit的祖先。这里有两个地方可以提前结束搜索，提出来应该很好。 |
| Store a binary tree to array  follow up就是如果树不full怎么办 | [2015.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=145645)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=176965) | [讨论](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=171444) |
| Dice SUM，写一个函数float sumPossibility(int dice, int target)，就是投dice个骰子，求最后和为target的概率。 | [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=166760) | 因为总共的可能性是6^dice，所以其实就是combination sum，求dice个骰子有多少种组合，使其和为target。先用brute force的dfs来一个O(6^dice)指数复杂度的，然后要求优化，用dp，最后结束代码写的是两者结合的memorized search吧  [Java 代码](https://gist.github.com/diegozeng/6c964f623bbeaa716526)  另有代码在zip中 |
| search A或者A|B或者A&B的题[上机]  N  ...  ... --> document，有N行string，每一个string是space delimited  ...  M  ...  A  B & C --> M行query  D | E  ...  要求输出如下：对每一个query，依次print document中满足query条件的行号，其中行号根据key word出现频率排序，对于频率一样的，小的行号优先。  其中出现的频率按照如下定义：如果string中单词A cnt1次，单词B cnt2次，则A&B和A | B的频率都按照cnt1 + cnt2计算。  后面还有几道文字题目：分析时间和空间复杂度；如果给你一天时间完成，你还有什么优化，如果有很多很多记录，很多很多user querys，有什么优化 | [2016.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=166760)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=182049)  [2015.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=149006)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=179465)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=176965)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=182369) |  |
| 给一堆jobid, implement两个function:void expire(long id), bool isExpired(long id)。如果job id 超多，如何用16MB的memory纪录expired 的id。 | [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=182049)  [2015.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=149006) |  |
| 让求trireviews，就是给你一堆log，包含公司名和reviews，让你求出现频率最高的triangrams， 比如indeed is a good company, triangrams 就是indeed is a, is a good, a good company, 会给很多句review然后对一个公司返回n个出现频率最高的triangrams，如果出现频率一样就按字母顺序排[上机] | [2015.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=145645) |  |
| 就是给你一段String[] = {"we all love indeed, and everyone use python and nobody like java, but we would hire java developer"}; 让你return result = and everyone use python and nobody like java, but we would.这道不难，就维护两个指针 pre and post. 把这段话分成3段存入result =[pre-3 to pre]+ python ==== java + [post to post +3] | [2016.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=201699)  [2018.1](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=339114) |  |
| 多叉树遍历根到叶子path min sum follow up是DAG的最短路径，用dijkstra [phone和onsite都出现过]  第一轮：给一颗binary tree，有以下数据结构  class Edge {  Node node;  int cost; //大于等于0}  class Node {  List<Edge> edges;  }  找从root到叶节点cost之和最小的路径，返回该leaf node。（dfs）  follow-up：如果不是binary tree的结构，而是任意的单向图，问代码还是否work（yes）  有没有优化的地方？（我用hashmap存下每个节点到叶节点的distance，这样再次访问到该叶节点就不必dfs下去）。时间复杂度？（优化后是O（V+E）） | [2017.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=302903)  [2017.2](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=230257)  [2015.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=147664)  [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=215279)  [2015.11](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=149006)  [2015.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=145645)  [2016.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=182369) | 改成DAG行不行---再优化一下（解：加一个hashmap），时间复杂度是多少？（DAG优化之前是O(V!)优化之后是O(V+E)）【我用DFS做，面试官说改成bfs优化一下，我就没弄出来】 |

**系统设计 & other**

|  |  |  |
| --- | --- | --- |
| how to build an e-commerce website which can compete with Amazon with high-level abstraction. Draw database schema. 我从scalibity讲了vertical scale, horizontal scale, load balancer大概讲了10分钟，然后花了15分钟画图。  follow up: if our fulfillment service can only process 100 shipping information at 1 min. How to design a method to meet the requirement. 我说的用一个queue,基于它的特性就是FIFO，设一个timer,把queue当做sliding window, 用currTime - queue.peek().time > 1 && queue.size() <=100 来作为constrains来保证100/min. | [2016.9](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=201699) |  |
| 一个电商系统，模型是有markt模块，负责产生http link, sales用这些link去做推广；用户点击后有credit给sales,并进入order protal模块；提交订单后进入fullfillment 模块，然后返回结果给order protal  一问： 新系统要把order protal 模块放第三方云上去，问怎么修改原有系统？二问： 如何设计market 模块. | [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=216225) | 发现面的这个组就是新成立的干整合第三方API，把模块移动saleforce上便于scale, 在解决类似面试题目的场景 |
| 系统设计, 设计公司review 系统, 用户可上传review, 搜寻review. 用什麽资料库,怎麽scale. | [2016.12](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=215279) |  |
| 设计Tweet信息派送 | [2017.6](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=285409&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| 设计一个点击量计费系统。简单来说就是用户点了链接之后，会跳到这个系统，系统首先会decrypt过来的链接得到3个参数，分别是职位id，职位发布人的id和这条点击的单价。要做的就是每个月发一份报告，报告里包含了各个职位发布人和他们应该付的钱送到另外一个service。 | [2017.5](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=280495) | lz先问了下点击量大概会有多少，算了下qps和存储需要的容量。最后聊了下怎么分成几个micro services，主要是存储，跳转，生成报告。后面加了一问问了下如果职位发布人设置了每月开销的上限怎么办，那就需要另一个服务实时去算开销了，如果到了给的上限就要停止发布他们的职位。 |
| Trouble shooting, 给了三个data center的结构，圣何塞，芝加哥和奥斯汀，圣何塞和芝加哥的DC里有一个serviceserver 和 DB replica，奥斯汀作为总部 有primary DB和replica，所有写操作都是要写入奥斯汀的primary DB的，读操作是从每个DC各自的replica读，primary DB会不断跟各个DC的replica同步着。问题时，如果有一天早上4点钟，突然发现全球的用户都登陆不了了，给你半个小时，你要来找到原因。 | [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=298088) | 然后我们就讨论server，讨论DB，慢慢的一起找到了原因，是primary DB被人同时在back up着，导致超负荷了。这一轮主要是跟面试官去分析，在分析的过程中，探讨可能出现的问题。 |
| Architecture Critique, 面试官给了目前的一个架构，是一个单data center，问我如何扩展到全球多个data center | [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=298088) |  |
| 设计online book store（data modeling） | [2017.10](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=300909&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3089%5D%5Bvalue%5D%5B2%5D%3D2%26searchoption%5B3089%5D%5Btype%5D%3Dcheckbox%26searchoption%5B3046%5D%5Bvalue%5D%3D26%26sear) |  |
| 设计Indeed的Job Alert系统 | [2018](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=343425).3 |  |
| 审查新码农的代码，是实现他们家工作的筛选器。就是去他们网站随便搜个职位，最左边那一列。要按搜到工作的数量排序，一样的话就按工作名字的首字母。一共2个页面一个是java写的后台，另一个是jsp的前台。刚开始lz思路有点错，以为是查代码风格，后来经提醒主要是debug。两个页面都有错，jsp主要是html跳转的问题，java是排序的问题。 | [2017.5](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=280495)  [2018.3](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=343425) | code review都会有 比如逻辑错误，数据结构选择，命名，coding style等等 |