# TEST4 OA

三天前做的OA,  
p1 Sum of SubArray,给定{1，2，3} output就是20.  
在 geeksforgeeks.org 上搜 sum-of-all-subarrays 就是这个原题。 注意一下timeout就行啦。网上有三种解法  
p2 是给两个String s, String t, 然后问S中可以删t几次。 比如s = ababaa, t=aba. 返回2..鐣欏璁哄潧-涓€浜�-涓夊垎鍦�  
用的DFS。不过写的巨长无比，应该不是最优解，不过test case都过了。  
p3 是给定一个String s，求有多少substring 是 Palindrome. 比如abbcc--- a b c bb cc    
  
分奇数偶数做dfs. 1point 3acres 璁哄潧  
准备的时候一共做了14题左右吧，虽然不一定是最优解，有要的留邮箱。

1. LC20: Valid Parentheses.  
2. minimum operation: (+1, \*2) (<http://172.252.15.228/instant_/discuz_thread/194035>). 鐣欏鐢宠璁哄潧

|  |
| --- |
| /Users/xiaoxiao/Desktop/Screen Shot 2017-09-30 at 11.24.51 PM.png |
| 第二题： Two Operations，题意是从零开始，只有两种操作可供选择，+ 1 和 × 2，求到某个数字的最小的操作次数. 比如(从左向右计算，我就不加括号了) 3 = 0 +1+1+1 (3) / 0 + 1 \* 2 + 1(3) 5 = 0 + 1 \* 2 \* 2 + 1(4) 上来想复杂了，还考虑用DP去做，后来发现有几个case超时。后来发现，\* 2 操作一定比 + 1操作快，然后就改了下，然后就pass了test case。因为输入项里说明n <= pow(10, 16), 所以这里用Integet.parseInt(S)会报异常，所以用Long去接收。最后加了个cache优化一下。 代码如下：  链接: <http://172.252.15.228/instant_/discuz_thread/194035> 来源: 一亩三分地  /Users/xiaoxiao/Desktop/Screen Shot 2017-09-30 at 11.25.07 PM.png |

3. 类似LC28 strStr, 但是target string中可包含\*， 可代替任何字符～

1，Leet 20 valid parentheses:. 1point 3acres 璁哄潧

<https://leetcode.com/problems/valid-parentheses/description/>

### 我当时有个case过不了，但是放在leetcode没问题，后来发现是string == null 这个corner case，我返回的是false，这在leetcode可以，但是twitter oa必须是返回true。 2，last and second-last 容易到怀疑人生的题目，要是谁说他做不出来自己去面壁。就是给你一个string，让你返回倒数第一个和倒数第二个letter，中间用空格间隔开，举例： given "twitter", return "r e" 3, acme rotations (Booth's Algorithm不懂) 感受到深深恶意的题目。题意：给一个string，每次可以向左位移一个单位（就是把第一个letter放到最后），问：rotate多少次能够得到lexicographical order的string。. 鍥磋鎴戜滑@1point 3 acres 这题我一开始在地里看到过（传送门：<https://instant.1point3acres.com/thread/281796>）， 自己在text editor写了下，觉得不难：遍历每种rotation的可能，通过java string的 compareTo()比较，同时update rotate的次数，得到最小lexcicographical后返回对应的rotate次数。但是！ O(n^2) 只能过6/14 个test cases，其余的timeout，所以还是要优化啊，地里那个帖子有提供reference 链接，（再次传送门： [https://en.wikipedia.org/wiki/Le ... Booth.27s\_Algorithm](https://en.wikipedia.org/wiki/Lexicographically_minimal_string_rotation#Booth.27s_Algorithm)） 其中，“Booth's Algorithm" 可以O(n) 解决，python写的代码奈何我看不懂啊扎心了烙铁。。。世界上最遥远的角力就是你写了答案甩我脸上但是我看。不。懂。

# test 2

一共四道题，一道sql+三道算法，可以七天内做完，邮件里说如果90分钟内做完优势更大http://www.1point3acres.com/bbs/static/image/smiley/YouXiHouboy/19.gif. Waral 鍗氬鏈夋洿澶氭枃绔�,  
  
1. sql: parent, child and tree, <https://www.hackerrank.com/challenges/binary-search-tree-1/forum>  
2. minimum genetic mutation, Leetcode 433  
3. longest phrases in a tweet, <https://instant.1point3acres.com/thread/196413>  
4. searching a log file, <http://www.1point3acres.com/bbs/thread-208379-1-1.html>

|  |
| --- |
| 1. Employees Per Department 2. Ways to Complete kraken, LC unique paths的变种，算对角线 3. Expression trees  1, 2 可参考[http://www.1point3acres.com/bbs/ ... adio%26sortid%3D311](http://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=208310&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3D20%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311)  4. Searching a Log file，这题没有参考的地方，附上test cases全过的代码，马上就要onsite了，挣些人品.鏈枃鍘熷垱鑷�1point3acres璁哄潧.鏈枃鍘熷垱鑷�1point3acres璁哄潧 Searching a Log file test cases全过代码： . From 1point 3acres bbs **public**Collection<String> search(Collection<String> logLines, LocalTime startDate, LocalTime endDate) {     List<String> result = **new**ArrayList<String>();     DateTimeFormatter formatter = DateTimeFormatter.***ISO\_DATE\_TIME***;      **boolean**inRange = **false**;     **for**(String line: logLines)     {         String[] input = line.split(**"\\s+"**);.1point3acres缃�         **try-google 1point3acres**{-google 1point3acres             LocalTime time = LocalTime.*parse*(input[0], formatter);.1point3acres缃�              String s1 = startDate.toString();             String s = time.toString();             **if**(s.equals(s1) || (time.isAfter(startDate) && time.isBefore(endDate)))             {                 inRange = **true**;. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴                 result.add(line);             }             **else**{                 inRange = **false**;             }         }         **catch**(Exception e)         {             **if**(inRange) result.add(line);         }      }     **return**result; } |

Top of Form

Bottom of Form

# test 7

1. Employees Departments.1point3acres缃�  
2. Hacking time （我做得有点麻烦，是先根据Your friend, Alice解密后并且确定key范围是2512208（但不一定是2开头），倒序把整句话翻译出来，再从句子开头截取7位作为key

）  
3. Parse and operate on simple expression tree  
[https://stackoverflow.com/questi ... ution-of-operations](https://stackoverflow.com/questions/40353348/expression-trees-parsing-and-execution-of-operations)

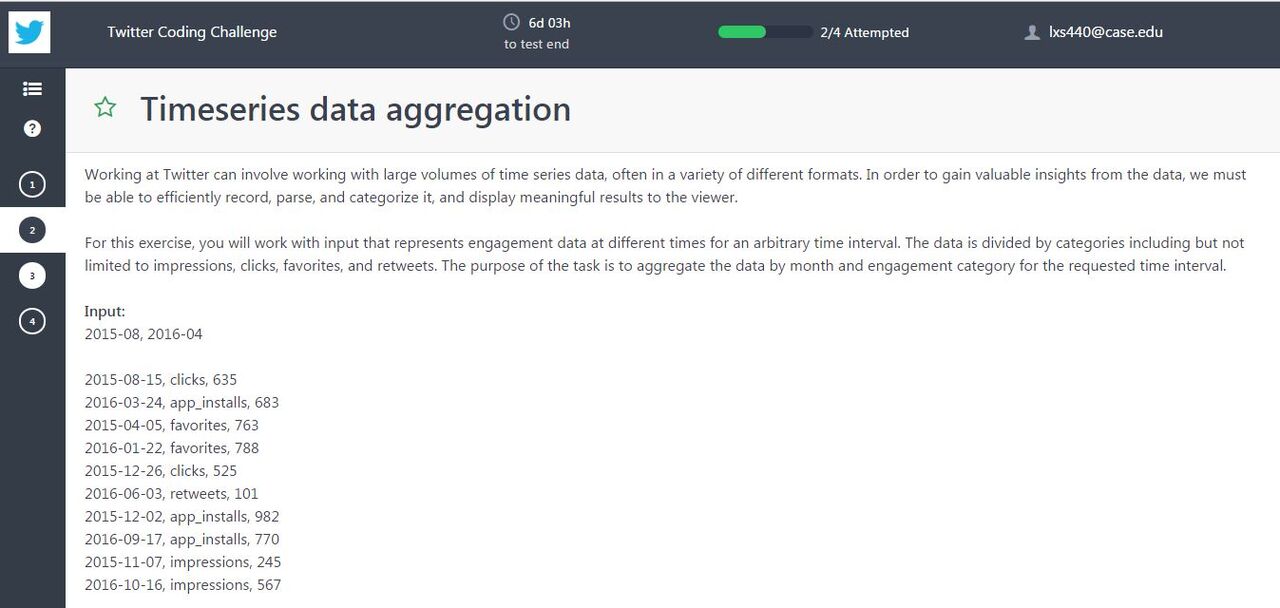
1. SQL：students, departments 两个table, 找出department里面的学生总数。

2. Information Masking

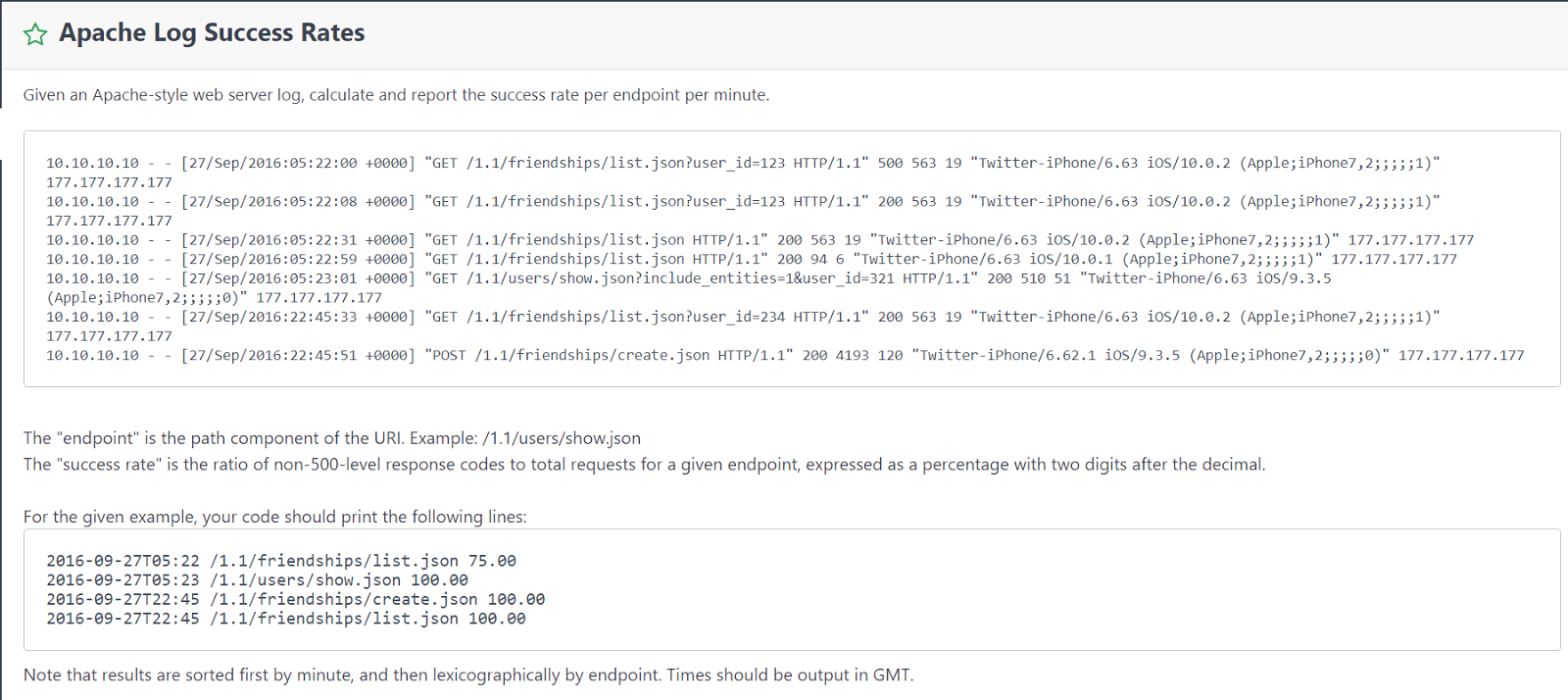
3. Time series aggregation  
  
1, SQL investments 2012 （ WHERE id IN () AND id NOT IN ().）  
2, Hacking time  
3, Genetic Mutation

1 判断三角形  
2 cupcake 问题，n dollers 能买单价为c的cupcake，bingqie用m个wrapper可以再换一个cupcake,问最终能吃几个cupcake.鏈枃鍘熷垱鑷�1point3acres璁哄潧  
3 strstr问题，其中一个str里面可能有\*  
不知道大家做完oa后有木有收到后续消息呀～以及一般多久会收到后续消息呢？求好运～

新鲜出炉 T家 OA Test5 (体力题)地里刚好没这题具体的信息... 个人感觉这题并不适合拿来面试/OA

第一题是 Apache Log Success Rate

第二题是 Infomation masking （这题地里已经有了我就不说了）



Sample input：

10.10.10.10 - - [27/Sep/2016:05:22:00 +0000] "GET /1.1/friendships/list.json?user\_id=123 HTTP/1.1" 500 563 19 "Twitter-iPhone/6.63 iOS/10.0.2 (Apple;iPhone7,2;;;;;1)" 177.177.177.177. from: [1point3acres.com/bbs](http://1point3acres.com/bbs)   
10.10.10.10 - - [27/Sep/2016:05:22:08 +0000] "GET /1.1/friendships/list.json?user\_id=123 HTTP/1.1" 200 563 19 "Twitter-iPhone/6.63 iOS/10.0.2 (Apple;iPhone7,2;;;;;1)" 177.177.177.177  
10.10.10.10 - - [27/Sep/2016:05:22:31 +0000] "GET /1.1/friendships/list.json HTTP/1.1" 200 563 19 "Twitter-iPhone/6.63 iOS/10.0.2 (Apple;iPhone7,2;;;;;1)" 177.177.177.177  
10.10.10.10 - - [27/Sep/2016:05:22:59 +0000] "GET /1.1/friendships/list.json HTTP/1.1" 200 94 6 "Twitter-iPhone/6.63 iOS/10.0.1 (Apple;iPhone7,2;;;;;1)" 177.177.177.177  
10.10.10.10 - - [27/Sep/2016:05:23:01 +0000] "GET /1.1/users/show.json?include\_entities=1&user\_id=321 HTTP/1.1" 200 4160 51 "Twitter-iPhone/6.63 iOS/9.3.5 (Apple;iPhone7,2;;;;;0)" 177.177.177.177  
10.10.10.10 - - [27/Sep/2016:22:45:33 +0000] "GET /1.1/friendships/list.json?user\_id=234 HTTP/1.1" 200 563 19 "Twitter-iPhone/6.63 iOS/10.0.2 (Apple;iPhone7,2;;;;;1)" 177.177.177.177. From 1point 3acres bbs  
10.10.10.10 - - [27/Sep/2016:22:45:51 +0000] "POST /1.1/friendships/create.json HTTP/1.1" 200 4193 120 "Twitter-iPhone/6.62.1 iOS/9.3.5 (Apple;iPhone7,2;;;;;0)" 177.177.177.177

Expected output:

2016-09-27T05:22 /1.1/friendships/list.json 75.00  
2016-09-27T05:23 /1.1/users/show.json 100.00  
2016-09-27T22:45 /1.1/friendships/create.json 100.00  
2016-09-27T22:45 /1.1/friendships/list.json 100.00

Test case 特别的坑... 而且HackerRank还不给你看Test case错在哪..

Hit: 1. non-500-level 的意思是500到599

2. time要转换成SimpleDateFormat，然后要设置时区为GMT

不知道有没有童鞋pass了Apache Log Success所有case, 在这里想和大家交流一下。我的思路就是用map存success和total number，如果到了下个时间，就把map里面的所有值来计算各个rate，并存放在priorityqueue, 然后清空map。priorityqueue需要根据要求定义comparator。还是有没过的case，问题会不会出在以下两点：  
  
1. 时间不一定是递增的？ 。。。  
  
2. URI的情况不太明朗。应该不止？和空格来区分？我也用regex尝试了各种符号依旧不行。有没有固定的方法来识别URI。

1. import java.util.Date;. From 1point 3acres bbs
2. import java.util.Locale;. more info on [1point3acres.com](http://1point3acres.com/)
3. import java.util.TimeZone;
4. import java.text.SimpleDateFormat;
5. public class parseDate {
6. public static String dateparse(String s){
7. SimpleDateFormat ForMatter = new SimpleDateFormat("yyyy/MM/dd'T'hh:mm");
8. ForMatter.setTimeZone(TimeZone.getTimeZone("GMT"));
9. SimpleDateFormat formatter = new SimpleDateFormat("dd/MMM/yyyy:hh:mm:ss Z", Locale.US);
10. Date date = new Date();
11. String res = new String();
12. try{
13. date = formatter.parse(s);
14. res = ForMatter.format(date);. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷
15. }. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴
16. catch(Exception e){
17. e.printStackTrace();
18. }
20. return res;
21. }
22. 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
23. public static void main(String[] args){
24. System.out.println(dateparse("08/Sep/2015:10:55:15 +0000"));
25. System.out.println(dateparse("31/Nov/2012:05:00:18 +0300"));
26. }
27. }

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把hh换成HH，因为是24小时制

[求内退求offer 发表于 2016-11-4 10:41](http://www.1point3acres.com/bbs/forum.php?mod=redirect&goto=findpost&pid=2618556&ptid=209018)  
collections sort一下？ 楼主我也在准备他家的oa，要不要share一下test case 共同分享一下？

你说sort是指解决顺序的问题吗？要求是先根据分钟排，再根据uri排，我直接用comparator解决了。刚刚我试了一下时间不是递增的情况，有过了一个case， 但是还有两个没过。。。。. 鍥磋鎴戜滑@1point 3 acres  
难道test case不同，我唯一的一个看得见的例子是，不知道你的是啥. more info on [1point3acres.com](http://1point3acres.com/)  
2016-09-27T05:22 /1.1/friendships/list.json 75.00  
2016-09-27T05:23 /1.1/users/show.json 100.00  
2016-09-27T22:45 /1.1/friendships/create.json 100.00. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
2016-09-27T22:45 /1.1/friendships/list.json 100.00

你是在map之后sort的还是map之前

我是直接把每行处理后放到priorityqueue里面，然后用poll的方法print。目前发现好像没有case特别检测分钟的顺序，改过的还是过，不过的依旧不过。严格的是要写comparator

你是说sort来实现时间顺序吧，一直以为是说最后的答案排序。两个应该都可以吧。

split后记得trim

请问这题有题目和code吗？怎么到处都找不到

没有Code, 我把截图发给你，还有一段处理date的code。这题也是相当tricky，注意几点，开始把各行放在list里面后就sort, split后注意trim, non-500 level指500-599, 处理时间见我发的代码。C:\Users\Jian & Xinyi\Desktop\面经\Twitter\Archive

这一周都在准备Twitter的OA,感谢地里各种好人的无私贡献，基本把最近的题都做了下，自己抽到的是3题版，time series aggregation那题不论是用treemap还是priorityQueue都只能过第1个test case,后面4个死活过不去，在一楼贴上代码，如果有好心人帮忙看下，提点建议最好了。  
另外发现这周末收到的oa比上周的题目要简单好多，所以小伙伴抓紧做吧，指不定下周题又变了。。  
  
  
我把自己做过的题的代码直接贴出来吧，反正之前组招面过twitter了，感觉即使再给我电面还是过不去（它家店面至少是lc68,269的难度，一题不够），不求[大米](http://www.1point3acres.com/bbs/forum.php?mod=collection&action=view&ctid=5&fromop=all)不求赞，只为下周的Google电面攒个人品，希望能出个简单的或者是原题，不要遇到奇葩题...  
  
  
**补充内容 (2016-11-15 04:19):**  
今天听说有人因为贴了oa代码被取消onsite的（后人直接全部 copy了他的代码），我开这个帖子只是希望国人能过互帮互助，毕竟从地里收益很多。但是希望大家不要照抄code,这样于你于我都不是件好事,拜托了  
  
**补充内容 (2016-11-15 04:20):**  
据说hackerrank的后台检测代码查重机制很准，不光是twitter,今后大家做其它家的hackerrank OA也要注意，祝好运！

longest phrases in a tweet, 水题，类似unique paths, pass all test cases

1. static int maxLength(int[] a, int k) {
2. Queue<Integer> queue = new LinkedList<>();.鏈枃鍘熷垱鑷�1point3acres璁哄潧
3. int sum = 0;
4. int maxLen = 0;
5. for(int cur : a){
6. if(sum + cur <= k){
7. queue.offer(cur);
8. sum += cur;. more info on [1point3acres.com](http://1point3acres.com/)
9. }else{
10. while(sum + cur > k){
11. maxLen = Math.max(maxLen, queue.size());
12. int first = queue.poll();.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�
13. sum -= first;. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷
14. }
15. sum += cur;
16. queue.offer(cur); 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
17. maxLen = Math.max(maxLen, queue.size());
18. }
19. }
20. maxLen = Math.max(maxLen, queue.size());
21. return maxLen;.1point3acres缃�
22. }

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encrypt and decrypt message, 这题搞了我一晚上时间，结果点开oa发现没有这题。。anyway,我的代码自己拿case跑了一下，如果有问题欢迎指正

1. static String getKey(String tweets, String signature){
2. char[] sig\_arr = signature.toCharArray();
3. char[] twe\_arr = tweets.toCharArray();.1point3acres缃�
4. int letter\_len = 0;. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
5. for(char c : sig\_arr){
6. if(Character.isLetter(c)) letter\_len++;
7. }. more info on [1point3acres.com](http://1point3acres.com/)
8. char[] keys = new char[letter\_len];
9. int sig\_cur = sig\_arr.length - 1;
10. int twe\_cur = twe\_arr.length - 1;. 1point 3acres 璁哄潧
11. letter\_len--;-google 1point3acres
12. while(sig\_cur >= 0){
13. if(Character.isLetter(sig\_arr[sig\_cur])){
14. char sig = sig\_arr[sig\_cur];
15. char twe = twe\_arr[twe\_cur];
16. int tmp  = sig - twe;
17. //System.out.println(-tmp);
18. int offset = (twe - sig) < 0 ? (twe + 26 - sig) : (twe - sig);. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
19. keys[letter\_len] = (char)('0' + offset);
20. letter\_len--;.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�
21. }. visit [1point3acres.com](http://1point3acres.com/) for more.
22. sig\_cur--;
23. twe\_cur--; 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
24. }
25. String short\_key = shortenKey(new String(keys));
27. for(int i = 1; i < short\_key.length(); i++){
28. StringBuilder key\_builder = new StringBuilder();
29. key\_builder.append(short\_key.substring(i));
30. key\_builder.append(short\_key.substring(0, i));-google 1point3acres
31. String tmp\_key = key\_builder.toString();. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴
32. String new\_tweets = decrypt(tweets, tmp\_key);
33. if(new\_tweets.substring(new\_tweets.length() - signature.length()).equals(signature)){
34. return tmp\_key;. more info on [1point3acres.com](http://1point3acres.com/)
35. }
36. }
37. return "";
38. } 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
39. .1point3acres缃�
40. static String shortenKey(String keys){. [1point3acres.com/bbs](http://1point3acres.com/bbs)
41. String reverse\_keys = reverse(keys);
42. int end = 1;//end == 7. 1point 3acres 璁哄潧
43. String tmp\_key = "";
44. while(end < reverse\_keys.length()){
45. tmp\_key = reverse\_keys.substring(0, end);////2802215
46. int tmp\_len = tmp\_key.length();//7
47. int tmp\_begin = end ;//
48. while(tmp\_begin + tmp\_len <= reverse\_keys.length()){
49. if(!tmp\_key.equals(reverse\_keys.substring(tmp\_begin, tmp\_begin + tmp\_len))){. [1point3acres.com/bbs](http://1point3acres.com/bbs)
50. break;
51. }else{
52. tmp\_begin += tmp\_len;
53. }
54. }
55. .鐣欏璁哄潧-涓€浜�-涓夊垎鍦�
56. if(tmp\_begin + tmp\_len <= reverse\_keys.length()){
57. end++;
58. }else{
59. int i = 0;
60. while(tmp\_begin < reverse\_keys.length() && reverse\_keys.charAt(tmp\_begin) == tmp\_key.charAt(i)){
61. i++;
62. tmp\_begin++;
63. }
64. if(tmp\_begin == reverse\_keys.length()){
65. return reverse(tmp\_key);
66. }else{
67. end++;
68. }-google 1point3acres
69. }
70. }
71. return reverse(tmp\_key);
72. }. [1point3acres.com/bbs](http://1point3acres.com/bbs)
73. static String reverse(String s){
74. char[] arr = s.toCharArray();. visit [1point3acres.com](http://1point3acres.com/) for more.
75. int begin = 0, end = arr.length - 1;
76. while(begin < end){
77. char tmp  = arr[begin];. 鍥磋鎴戜滑@1point 3 acres
78. arr[begin] = arr[end];
79. arr[end] = tmp;
80. begin++;. 鍥磋鎴戜滑@1point 3 acres
81. end--;
82. }. From 1point 3acres bbs
83. return new String(arr);
84. }
85. static String decrypt(String tweets, String key){. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
86. char[] key\_arr = key.trim().toCharArray();. 鍥磋鎴戜滑@1point 3 acres
87. int len = key\_arr.length;
88. char[] tweets\_arr = tweets.toCharArray();
89. int letter = 0;
90. for(int i = 0; i< tweets\_arr.length; i++){
91. if(Character.isLetter(tweets\_arr[i])){
92. boolean upper = Character.isUpperCase(tweets\_arr[i]);
93. int offset = key\_arr[letter % len] - '0';
94. tweets\_arr[i] = (char)(tweets\_arr[i] - offset);
95. if(upper && tweets\_arr[i] < 'A'){
96. tweets\_arr[i] += 26;
97. }
98. if(!upper && tweets\_arr[i] < 'a'){. Waral 鍗氬鏈夋洿澶氭枃绔�,
99. tweets\_arr[i] += 26;
100. }. visit [1point3acres.com](http://1point3acres.com/) for more.
101. letter++;.鏈枃鍘熷垱鑷�1point3acres璁哄潧
102. }. visit [1point3acres.com](http://1point3acres.com/) for more.
103. }
104. return new String(tweets\_arr);-google 1point3acres
105. }

复制代码

parent, child, tree那题，选Oracle, pass all test case.1point3acres缃�

1. SELECT
2. Id,
3. CASE
4. WHEN M IS NULL THEN 'Leaf'
5. WHEN P\_id IS NULL THEN 'Root'
6. ELSE 'Inner'-google 1point3acres
7. END AS TypeNode. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷
8. FROM(. [1point3acres.com/bbs](http://1point3acres.com/bbs)
9. SELECT
10. DISTINCT hijo.\*, padre.P\_id as M
11. FROM Tree hijo
12. LEFT JOIN Tree padre ON(hijo.Id = padre.P\_id)
13. )ORDER BY Id;

复制代码

information mask, pass all test cases

1. public class Solution {
2. //mask the email
3. private static String emailMask(String email){
4. StringBuilder sb = new StringBuilder();
5. sb.append("E:");
6. sb.append(email.charAt(0));. From 1point 3acres bbs
7. sb.append("\*\*\*\*\*");
8. int start = email.lastIndexOf('@') - 1;
9. sb.append(email.substring(start));
10. return sb.toString();
11. }
12. . 1point 3acres 璁哄潧
13. //mask the phone number
14. private static String phoneMask(String phone){
15. StringBuilder sb = new StringBuilder();
16. sb.append("P:");
17. char[] arr= phone.toCharArray();
18. int num = 0;
19. for(char c : arr){
20. if(Character.isDigit(c)){
21. num++;
22. }
23. }
24. int countryCode = num - 10;. from: [1point3acres.com/bbs](http://1point3acres.com/bbs)
25. boolean extra = false; 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
26. if(countryCode > 0){
27. sb.append('+');
28. extra = true;
29. }
30. int cur = 0;
32. while(cur < arr.length && countryCode > 0){
33. if(Character.isDigit(arr[cur])){
34. sb.append('\*');
35. countryCode--;
36. }
37. cur++;
38. }.鏈枃鍘熷垱鑷�1point3acres璁哄潧
39. if(extra){
40. sb.append('-');
41. }
42. int cnt = 0;
43. while(cur < arr.length && cnt < 3){
44. if(Character.isDigit(arr[cur])){ 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
45. sb.append('\*');
46. cnt++;
47. }
48. cur++;
49. }
50. sb.append('-');
51. cnt = 0;
52. while(cur < arr.length && cnt < 3){
53. if(Character.isDigit(arr[cur])){
54. sb.append('\*');
55. cnt++;
56. }. 1point 3acres 璁哄潧
57. cur++;
58. }
59. sb.append('-');. visit [1point3acres.com](http://1point3acres.com/) for more.
60. cnt = 0; 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
61. while(cur < arr.length && cnt < 4){
62. if(Character.isDigit(arr[cur])){
63. sb.append(arr[cur]);
64. cnt++;
65. }
66. cur++;
67. }-google 1point3acres
68. return sb.toString();
70. }
71. public static void main(String args[] ) throws Exception {
72. /\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/
73. BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
74. String input;
75. while((input = br.readLine()) != null){
76. //String input = br.readLine();
77. String[] inputs = input.trim().split(":");. Waral 鍗氬鏈夋洿澶氭枃绔�,
78. if(inputs[0].trim().equals("E")){
79. System.out.println(emailMask(inputs[1].trim()));
80. }else if(inputs[0].trim().equals("P")){
81. System.out.println(phoneMask(inputs[1].trim()));. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷
82. }
83. }.鏈枃鍘熷垱鑷�1point3acres璁哄潧
84. br.close();
86. }
87. }

复制代码

Time series aggregation的代码，只能过第一个test case,感觉自己代码逻辑没问题，应该是某处小bug,傻逼hacker rank还不显示test case真是醉了。。求好心人提示下错在哪里。。

1. public class Solution {
2. static String beginMonth;
3. static String endMonth;
4. // static Map<String, Map<String, Integer>> logs = new TreeMap<>(Collections.reverseOrder());
5. static Map<String, Map<String, Integer>> logs = new HashMap<>();. [1point3acres.com/bbs](http://1point3acres.com/bbs)
6. static PriorityQueue<Log> maxHeap;
8. static class LogComparator implements Comparator<Log>{
9. public int compare(Log log1, Log log2){
10. String date1 = log1.date;
11. String date2 = log2.date;
12. String category1= log1.category;
13. String category2 = log2.category;
14. if(date1.equals(date2)){
15. return category1.compareTo(category2);
16. }else{
17. return date2.compareTo(date1);
18. }. from: [1point3acres.com/bbs](http://1point3acres.com/bbs)
19. }. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
20. }
22. static class Log{
23. String date;
24. String category;.1point3acres缃�
25. int cnt;
26. Log(String date, String category, int cnt){
27. this.date = date;
28. this.category = category;
29. this.cnt = cnt;
30. }
31. }
33. static String removeDD(String date){
34. //return date;
35. Date initDate = null;
36. try{
37. initDate = new SimpleDateFormat("yyyy-MM-dd").parse(date);
38. }catch (ParseException e){
39. e.printStackTrace();
40. }
41. SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM");
42. String parsedDate = formatter.format(initDate);. from: [1point3acres.com/bbs](http://1point3acres.com/bbs)
43. return parsedDate;. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴
45. }
46. .1point3acres缃�
47. static boolean isBefore(String d1, String d2){
48. SimpleDateFormat format = new SimpleDateFormat("yyyy-MM");
49. Date date1 = null;. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴
50. Date date2 = null;
51. try{
52. date1 = format.parse(d1);
53. date2 = format.parse(d2);. visit [1point3acres.com](http://1point3acres.com/) for more.
54. }catch(ParseException e){. Waral 鍗氬鏈夋洿澶氭枃绔�,
55. e.printStackTrace();
56. }.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�
57. return date1.before(date2);
58. }
59. .鏈枃鍘熷垱鑷�1point3acres璁哄潧
60. public static void main(String args[] ) throws Exception {.鏈枃鍘熷垱鑷�1point3acres璁哄潧
61. /\* Enter your code here. Read input from STDIN. Print output to STDOUT \*/
63. String line = null;
64. int num = 0;. visit [1point3acres.com](http://1point3acres.com/) for more.
65. try{
66. BufferedReader br = new BufferedReader(new InputStreamReader(System.in));-google 1point3acres
68. while((line = br.readLine()) != null){
69. if(num == 0){
70. String[] interval = line.trim().split(",");
71. if(interval.length != 2){
72. throw new Exception("invalid input!");. visit [1point3acres.com](http://1point3acres.com/) for more.
73. }
74. beginMonth = interval[0].trim();
75. endMonth = interval[1].trim();
76. //System.out.println(line);. 1point 3acres 璁哄潧
77. num++; 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
78. }else if(num == 1){
79. num++; . 1point 3acres 璁哄潧
80. continue;
82. }else{
83. //System.out.println(line);. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴
84. String[] lines = line.trim().split(",");
85. if(lines.length != 3){
86. throw new Exception("invalid input!");
87. }
88. String date = lines[0].trim();. more info on [1point3acres.com](http://1point3acres.com/)
89. //System.out.println(date);
90. String trans\_date = removeDD(date);. 鍥磋鎴戜滑@1point 3 acres
91. //System.out.println(trans\_date);
92. String category = lines[1].trim();
93. String count = lines[2].trim();
94. int cnt = Integer.parseInt(count);
95. //System.out.println(date);
96. if(isBefore(trans\_date, beginMonth) || isBefore(endMonth, trans\_date) || cnt == 0) continue;
97. if(!logs.containsKey(trans\_date)){
98. logs.put(trans\_date, new HashMap<String, Integer>());
99. }
100. Map<String, Integer> map = logs.get(trans\_date);-google 1point3acres
101. if(!map.containsKey(category)){. from: [1point3acres.com/bbs](http://1point3acres.com/bbs)
102. map.put(category, cnt);
103. }else{
104. map.put(category, map.get(category) + cnt);
105. }
107. logs.put(trans\_date,map);
108. num++; . 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷
109. }
111. }
112. }catch (Exception e){
113. e.printStackTrace();. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
114. }
115. . 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
116. maxHeap = new PriorityQueue<Log>(num, new LogComparator());
117. for(Map.Entry<String, Map<String, Integer>> entry : logs.entrySet()){
119. String date = entry.getKey();
120. //System.out.println(date);
121. Map<String, Integer> map = entry.getValue();
123. for(Map.Entry<String, Integer> sub\_entry : map.entrySet()){
124. String category = sub\_entry.getKey();
125. int cnt= sub\_entry.getValue();
126. maxHeap.offer(new Log(date, category, cnt));
127. //System.out.println(date + " "  + category +  " " + cnt);. From 1point 3acres bbs
128. }
129. } 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
131. Log prev = null;. visit [1point3acres.com](http://1point3acres.com/) for more.
132. StringBuilder sb = new StringBuilder();-google 1point3acres
133. while(!maxHeap.isEmpty()){
134. Log cur = maxHeap.poll();
135. if(prev == null){
136. sb.append(cur.date);
137. sb.append(',');. Waral 鍗氬鏈夋洿澶氭枃绔�,
138. sb.append(' ');
139. sb.append(cur.category);
140. sb.append(',');
141. sb.append(' ');
142. sb.append(cur.cnt);
143. }else if(prev.date.equals(cur.date)){
144. sb.append(',');
145. sb.append(' ');
146. sb.append(cur.category);. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴
147. sb.append(',');. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴
148. sb.append(' ');
149. sb.append(cur.cnt);
150. }else{
151. String printString = sb.toString();
152. System.out.println(printString);
153. sb = new StringBuilder();
154. sb.append(cur.date);
155. sb.append(',');
156. sb.append(' ');
157. sb.append(cur.category);
158. sb.append(',');
159. sb.append(' ');
160. sb.append(cur.cnt);
161. }
162. prev = cur;
163. }
164. String printString = sb.toString();. 1point 3acres 璁哄潧
165. System.out.println(printString);
166. /\*
167. for(Map.Entry<String, Map<String, Integer>> entry : logs.entrySet()){
168. StringBuilder sb = new StringBuilder();
169. String date = entry.getKey();
170. sb.append(date);
171. Map<String, Integer> map = entry.getValue();
172. . 1point 3acres 璁哄潧
173. for(Map.Entry<String, Integer> sub\_entry : map.entrySet()){
174. String category = sub\_entry.getKey();
175. int cnt= sub\_entry.getValue();
176. sb.append(',');. From 1point 3acres bbs
177. sb.append(' ');
178. sb.append(category);
179. sb.append(',');
180. sb.append(' ');
181. sb.append(cnt);
182. }
183. System.out.println(sb.toString());
184. }
185. \*/
186. }. visit [1point3acres.com](http://1point3acres.com/) for more.
187. }

复制代码请问一下楼主，这个key一定会是2512208吗？还是不同的testcase会有不同的key？ 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.   
如果key不相同的话，在不 ...

1.不同case的key不一样. 1point 3acres 璁哄潧  
2.signature不一定有循环key,最坏情况signature就是一个key,你要做的就是去check是否有循环key, 重新加密的时候能得到给你的string

LZ人真好，刚花了两个多小时写twitter,time series 那个题目过了， 我开始也只过一个case,后来用treemap<time, treemap<engagement, count>>做的就都过去了。。。（原来用的treemap<time,List<>()>）.....

Orders 1的SQL代码，passed all test case

1. select o.customerNumber as customer
2. from ORDERS as o
3. group by customerNumber
4. order by count(orderNumber) desc
5. limit 1;

复制代码

employee, department题， 自己没遇到，不过同学试了通过了

1. select d.Name, count(e.ID) as ID\_COUNT 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
2. from Department d. from: [1point3acres.com/bbs](http://1point3acres.com/bbs)
3. left join Employee e
4. on e.DEPT\_ID = d.DEPT\_ID
5. group by d.Name
6. order by ID\_COUNT desc, NAME

复制代码

expression tree,这题我自己也没遇到，不过貌似是个高频题，贴上代码欢迎讨论，因为没有跑过hackerrank,不保证能pass all test case

1. static String experssionTree(String string){
2. String[] input = string.trim().split("/");
3. String expression = input[0];. visit [1point3acres.com](http://1point3acres.com/) for more.
4. String operation = input[1];
5. for(char op : operation.toCharArray()){
6. if(op == 'R'){. Waral 鍗氬鏈夋洿澶氭枃绔�,
7. expression = reverse(expression);
8. } 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.
9. if(op == 'S'){. visit [1point3acres.com](http://1point3acres.com/) for more.
10. expression = simplify(expression);
11. }
12. }. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷
13. return expression;
14. }
15. static String reverse(String s){
16. char[] arr = s.toCharArray();
17. int begin = 0, end = arr.length - 1;. From 1point 3acres bbs
18. while(begin < end){.1point3acres缃�
19. char tmp = arr[begin];
20. arr[begin] = arr[end];
21. arr[end] = tmp;
22. if(arr[begin] == '('){
23. arr[begin] = ')';
24. }else if(arr[begin] == ')'){
25. arr[begin] = '(';  . [1point3acres.com/bbs](http://1point3acres.com/bbs)
26. }
27. if(arr[end] == '('){
28. arr[end] = ')';
29. }else if(arr[end] == ')'){
30. arr[end] = '(';
31. }
32. begin++;
33. end--;
34. }
35. return new String(arr);
36. }
37. static String simplify(String s){. from: [1point3acres.com/bbs](http://1point3acres.com/bbs)
38. boolean firstLeft = true;
39. char[] arr = s.toCharArray();
40. Stack<Integer> stk = new Stack<>();
41. List<Integer> index = new ArrayList<>();
42. for(int i = arr.length - 1; i >= 0; i --){
43. if(arr[i] == ')'){. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
44. stk.push(i);
45. }
46. if(arr[i] == '('){
47. int rightIndex = stk.pop();
48. if(firstLeft == true){
49. int leftIndex = i;
50. index.add(rightIndex);
51. index.add(leftIndex);. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴
52. firstLeft = false;.1point3acres缃�
53. }else{
54. if(stk.isEmpty()){
55. firstLeft = true;
56. }. Waral 鍗氬鏈夋洿澶氭枃绔�,
57. }. visit [1point3acres.com](http://1point3acres.com/) for more.
58. }. [1point3acres.com/bbs](http://1point3acres.com/bbs)
59. }
60. StringBuilder sb = new StringBuilder(s);. Waral 鍗氬鏈夋洿澶氭枃绔�,
61. Iterator<Integer> iterator = index.iterator();
62. while(iterator.hasNext()){
63. int id = iterator.next();
64. sb = sb.deleteCharAt(id );
65. }
66. return sb.toString();
67. }

复制代码

DNA序列那题LC最新的433已经出来了，大家可以去做下，思路跟word ladder是一样的，总体也不是很难

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1. SQL STUDENT and DEPARTMENT   left join + group by count 过  原题lc 580  
2. Ways to complete Kraken  lc62变种。 lc62只能走右或下。Kraken可以走右或下或右下（斜着走）。  
3. cracking time  用key 8251220对原文解密。对letter进行ascII码减法操作即可。不难。