# 2019 Walmart Lab

# 总结日期2019年8月底

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### 纯粹的Java知识 + 架构 + 大数据技术关键词

下列是从面经里面总结出来,可能涉及到的concept或者技术 (非LeetCode或System Design的)

- Spring MVC
- 多线程
- Immutable class
- Singleton 单例模式
- Hashmap equal
- 大数据
- 分布式数据库
- 测试工具和测试framework

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### 1. 概念知识

### Phone电面

三哥电面

问了20分钟spring 知识

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=543016&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### **Onsite**

午饭: 大数据结构

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=522641&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### Onsite

第四轮: 多线程 Java基础

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=522641&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3

<u>D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline</u>

### **Onsite**

round 4:台湾大叔。immutable

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=525215&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### Phone电面

什么是singleton

dependency injection, race condition, deadlock.

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=533838&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### Phone电面

In hashmap, when does equal method call?

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=510775&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### Phone电面

店面:ecommerce简单概念

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

### **Onsite** ecommerce

第一轮:经理,问了design tinyurl这道题(只讲了思路大概写了个framework), 还有SQL, spring MVC的各种知识,其实感觉其中重点考察的就是spring mvc怎么写,restful API怎么和spring进行process的,我把之前会写的全写了,经理还是挺满意的。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=519064&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

### **Onsite**

onsite:一共五轮,四轮面试,一轮lunch。

1. 各种automation test tool, framework

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3

<u>D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline</u>

### Onsite

1: (支持多线程) key generater, 要有两个方法 1: generate key 2: feed key. 我以为要用 monitor pattern结果他说只用 wait()和 notify() 做就好

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=519268&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

### Phone电面

之后出了关于分布式数据库的问题,主要考察对分布式的理解。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=473104&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### **Onsite**

Round2, Java knowledge, 多线程

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=494453&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

### **Onsite**

2.老板面的singleton design pattern。和topk。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=476845&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## <mark>2.</mark> Phone电面 ecommerce

LeetCode 55. Min Stack

#### △ 寇最小栈, 还需要返回栈大小

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=544793&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

Solution using 2 stacks Solution using 1 stacks

## 3. Phone电面 ecommerce

total number of non decreasing number of given number of digits

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=544793&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## <mark>4.</mark> Phone电面

(感觉应该是LeetCode 605)

### 做了一道刷题网的 种花那个题

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=543016&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

#### **Solution**

Time O(N) Space O(1)

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## 5. Phone电面 Sam Club

### LintCode 243

先自我介紹 之後coding 考 1~10000 的所有的 amicable pair

example: 220, 284

220 的所有的divisors 除了他自己以外的和

1, 2, 4, 5, 10, 11, 20, 22, 44, 55 and 110, of which the sum is 284;

這個和(284)再做一次所有其divisors的和

and the proper divisors of 284 are 1, 2, 4, 71 and 142, of which the sum is 220. 如果一樣就是pair

Amicable\_numbers

https://en.wikipedia.org/wiki/Amicable numbers

暴力解後問如何優化

優化方案一 只search Math.sqrt(n)的範圍 找出其divisors

優化方案二 之前算出不是的pair丟到一個set中 如果下次再遇到就數字就跳過

對方好像還是不滿意 我不知道還有什麼更優的解法有人知道嗎?

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=543262&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## <mark>6.</mark> Phone电面

### LeetCode238

利口 二散吧

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=522641&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### 题目 https://leetcode.com/problems/product-of-array-except-self/submissions/

### Solution Time O(N) Space O(N)

### Solution follow-up space O(1)
Time O(N)

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## 7. Onsite

### LeetCode 692 Top K Frequent Words

### 第一轮: 利口 流久二

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=522641&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

#### topk。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=476845&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

### Round1, 项目, topK, binary search

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=494453&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

## 8. Onsite

#### LeetCode 215

第二轮:利口 尔以无

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=522641&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

### Solution 用quick select算法

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## <mark>9.</mark> Onsite

第三轮:返回当天部门的最popular的item

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=522641&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 10. Onsite

LeetCode 240 LeetCode 4

第五轮: 利口 丝 和 尔丝灵

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=522641&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

Solution LC4 Iteration Solution LC4 Recursion Solution LC4 2分 Solution LC240 从左下开始搜索

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11. Phone

**Onsite** 

LeetCode 41 LeetCode 20

白人大叔, valid parentheses和LC41。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=524409&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3

<u>D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby</u> %3Ddateline

### valid parenthesis

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=470863&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## 12. Onsite

印度大叔: count frequency of two substring in a string, and if frequency equal, return true, vice versa。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=524409&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 13. Onsite

**Design Twitter** 

### 印度大叔, design twitter。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=524409&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 14. Onsite

#### longest increasing sequence

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=525215&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 15. Onsite

LeetCode 200,305

#### number of island 1 和 2

round 2: 中国小姐姐 number of island 1 和 2。2是指实现了union 和find。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=525215&extra=page%3D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3

<u>D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline</u>

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### 16. Onsite

### LeetCode 146 LRU

lunch: 吃完饭,她说还有些时间,你想我给你出道题吗?她说你一定写不完,就说一下思路就好。然后给我出了道Lru Cache。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=525215&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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### 17. Onsite

round 3:中国小哥, binary tree iterator。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=525215&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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### 18 Phone电面

code: check path exist in a binary

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=533838&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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### <mark>19</mark> Phone电面

#### LeetCode 15

總共只有問我一題算法是 3SUM,很快的O(N3)的方式作出來之後,follow up 是 能不能再優化

一開始沒想出來,後來詢問了一下討論出O(N2)的解法

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=534261&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

3 sum,和leetcode不同在于,要求**三个数互不相同** 先是问是否存在3个数,和为target;

followup,找出所有这样的组合。30分钟出头就结束了,三天后通知onsite。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=546752&extra=page%3D4%26filter%3Dsortid%26sortid%3D311%26sortid%3D311

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## <mark>20</mark> Phone电面

第一个coding 是有三个services, 实现muti-threads;

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=510775&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## <mark>21</mark> Phone电面

#### LeetCode 38

Ic原题 - 伞吧,写完之后说了一下如果muti-threads怎么实现

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=510775&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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### <mark>22</mark> Phone电面

只有一题就是拓扑排序,口头run test case,然后迅速写了code.

follow-up: 怎样修改输入来优化复杂度 答 hashmap

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=510775&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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### <mark>23</mark> Phone电面

### 算法题word frequency

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 24 Onsite

2. 烙印哥,简历,js基础,算法题是,find second smallest element in an array <a href="https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3">https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3</a> <a href="D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3Dsortid%3D311%26sortid%3D311%26orderby%3Ddateline">https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3</a> <a href="D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3Dsortid%3D311%26sortid%3D311%26sortid%3D311%26orderby%3Ddateline">https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3</a> <a href="D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3Dsortid%3D311%26sortid%3D3

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## <mark>25</mark> Onsite

### LeetCode 176. Second Highest Salary LeetCode 184 Department Highest Salary

3. 国人小姐姐,自我介绍,简单的java基础,然后sql题是利口 要气流,和 利口 要把四。算法 题是subset

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### **LeetCode 165 Compare Version Numbers**

4. 印度小哥,自我介绍,简单的java基础,算法题是利口 要六五,和isPrime.

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=504292&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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### 27 Onsite

#### LeetCode isPrime

<u>%3Ddateline</u>

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## 28 Phone电面 ecommerce je

45分钟, 做了3题

- 1) 给你一个数字, 比如10, 一直除2, 直到等于0为止, 问你一共需要几步
- 2) 是上一题的followup,给你一组数组,把里面每个数都做题1的操作,返回 需要最多的步数 . 以及那个数值
- 3) followup, 咋么优化题2.。。如果数组里面数字有重复, 咋么优化。。如果都没有重复, 咋么优化。。。 用了recursion+memoization。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=512376&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 29 Onsite ecommerce

#### LeetCode 406 Longest Palindrome

第二轮:全程扑克脸的三姐姐,两道题,longest palindrome和convert array to BST,三姐姐一直在忙自己的等我写完了我给她demo,我自己的感觉是她觉得没问题,也没有多问。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=519064&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 30 Onsite ecommerce

### LeetCode 108 Convert Sorted Array to Binary Search Tree

第二轮:全程扑克脸的三姐姐,两道题,longest palindrome和convert array to BST,三姐姐一直在忙自己的等我写完了我给她demo,我自己的感觉是她觉得没问题,也没有多问。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=519064&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## 31 Onsite ecommerce

第三轮: senior三哥哥 题目我已经忘了,现场现编的是一个关于array的,我用了 priorityqueue写,时间复杂度nlogn,我感觉三哥哥前面半小时都在神游没听懂我demo,最后 他说make sense,但是有更好的解法,stack是直接可以一轮过的,我当时图方便再加三哥哥 说可以用pq我就这么写了,但貌似不是最优解三哥哥不是很开心。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=519064&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 32 Onsite ecommerce

第四轮:刚升一级的漂亮三姐姐,题目都是lc easy的array题,全程看我写听我demo,然后讲了很多卡夫卡的东西,这轮面试体验最好,刚进来的时候还问我要不要休息5分钟可以出去转一转,倒点咖啡喝一喝之类的。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=519064&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 33 Onsite

#### LeetCode 295 Find Median from Data Stream

#### 2: 数字流求中数, 蠡口饿舅舞

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=519268&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

### 第四轮 lc 二久五。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=521913&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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3: 设计seat assign系统, 跟停车场一个意思

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=519268&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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### 35 Onsite

第一轮 Pascal's triangle: 第一行是1, 第二行是1, 1 第二行是1,2,1 然后输入是N 要求输出第N行,自己定义输出的. 我用了一个size 为N的array 然后每一行从上一行的右边扫,这样的空间复杂度就是O(N).

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=521913&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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### 36 Onsite

然后是一个OOD 就是employee manager director 的设计。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=521913&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 37 Onsite

### LeetCode 909

第二轮是 刷题网 久零久, 但是面试官一开始问题给的很模糊,让我自己去modeling 这个问题,最后code没写完。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=521913&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## 38 Onsite

#### LeetCode meeting room

第三轮 Ic meeting room, 还考了java基础 函数写好了问你结果是啥 没复习的话我觉得蛮难的。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=521913&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

#### LeetCode 230

第五轮 lc 二三零。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=521913&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 40 Onsite

加面有两题,输入是given an array of K sorted data stream, merge一下, 类似merge k sorted array 需要把那个index也记录到heap里面,

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=521913&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 41 Onsite

然后是压缩aaaabbcdd为a4b2cd2 然后是反过来

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=521913&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## <mark>42</mark> Phone电面

被3除的print 'wal'

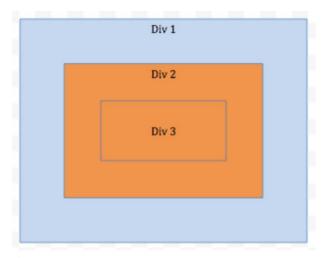
被5除的print 'mart'

被15除的print'walmart

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=500573&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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<mark>43</mark> Phone电面



给了这个图, 让写html css 和js, addeventlistner ('click', printname) printname就是alert该div的名字

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=500573&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 44 Phone电面 ecommerce jet

#### two sum

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=501147&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## <mark>45</mark> Phone电面 ecommerce jet

统计字符串中频率高的一个字母

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=501147&extra=page%3 D1%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## <mark>46</mark> Phone电面

出了一道常见编程题,二叉树的层次遍历输出。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=473104&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## <mark>47</mark> Phone电面

### 1. find minumum in rotated sorted array. 无重复 5601234

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=469823&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## <mark>48</mark> Phone电面

#### LeetCode 22

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https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=469823&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## <mark>49</mark> Phone电面

#### LeetCode42

#### 1. Trapping rain water

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=498274&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## <mark>50</mark> Phone电面

### 2. Subset

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=498274&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 51 Onsite

#### LeetCode 239

#### 李抠儿叁久

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=494453&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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Round4, singleton, 系统设计, 实时的top5商品

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=494453&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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### <mark>53</mark> Onsite

### LeetCode 换硬币

里抠换硬币

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=494453&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## <mark>54</mark> Phone电面

#### 应该是LeetCode 167

题大概是这样 有个target 然后有个array 你要给他第一个能给出这个数字的combination 比如 target 5 array {1, 2, 3, 5} return {2,3} 这样(应该是个leetcode题? 很快速地跟他讲完思路以后他就问了我runtime啊edge case

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=494060&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline

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## 55 Onsite

1.第一轮是个图的题,很简单,找出所有的可删除节点。感觉是个easy题肯定能做出来的。 https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=476845&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## 56 Onsite

3.这轮感觉有点玄,mongodb如何transactional。和问了一些mongodb如何sharding partition的问题

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=476845&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby%3Ddateline \_\_\_\_\_\_

### 57 Onsite

4.问了二维数组的二分法。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=476845&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline

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## 58 Onsite

### 5.最后是个类似hashmap的题目。

https://www.1point3acres.com/bbs/forum.php?mod=viewthread&tid=476845&extra=page%3 D2%26filter%3Dsortid%26sortid%3D311%26searchoption%5B3046%5D%5Bvalue%5D%3 D101%26searchoption%5B3046%5D%5Btype%5D%3Dradio%26sortid%3D311%26orderby %3Ddateline