networking basics TCP UDP

sockets

Networking stack layers

one big string seperated by spaces find how many occurrances of another small sting

test cases

when you give abc.com how will it work?

**Interview Questions**

* print out a multiplication table ie. 1 x1 to 12 x12  [Answer Question](http://www.glassdoor.com/Interview/print-out-a-multiplication-table-ie-1-x1-to-12-x12-QTN_987778.htm)
* Using OOP design a elevator.

Accepted Offer

Positive Experience

Average Interview

**Application**

I applied through an employee referral. The process took 1+ week – interviewed at Uber (San Francisco, CA) in May 2015.

**Interview**

I had a phone screen which was a live coding exercise on something aligned with my specialty. I was surprised by the exercise because it was somehow theoretical, but there was no trick question and it wasn't overly difficult. the interviewer would have been ok with me looking up documentation but my internet connection being really bad, I just went ahead and explained my process.  
I had very rapid feedback on that interview. In fact, the next time I checked my phone after doing the screen I was already invited to an onsite.  
On site i had 5 interviews. Overall, the interviews were much more about high level process and thinking than coding proper. Other reviews I read, and the recruiters email, prepared me to code on my computer (and again having access to documentation if needs be). In total, I had 2 functional brainstorming sessions ie how would you solve this problem - with problems squarely in my specialty. I had other exercises where I was asked the same but with a technical problem that was pretty different from what I usually do, and for which I had to write pseudocode (on white board). In my first interview, I had some trivial coding questions. I also had a more discussion type interview about values, past experience, etc. I must say it's not easy to get a sense of what are uber values/culture from the website. So I just tried to be true to myself and show what I do care about.  
My last interview had more classic interview problems on white board. I did 3 exercises which were mostly on the fine points of javascript syntax and structure. Those were not easy especially towards the end of the day.  
All in all I was surprised that questions stayed mostly high level, that made me more comfortable as I feel strongest there.

No Offer

Neutral Experience

Easy Interview

**Application**

I applied online – interviewed at Uber (San Francisco, CA) in May 2015.

**Interview**

After the initial phone screen, I had a phone interview with 2 software engineers. Using Coderpad.io, I was asked to program a solution for 2 problems, which they had preprepared with some existing boilerplate code. I struggled with a portion of the 2nd problem, and was later told via email that they would not be continuing with the interview process.

**Interview Questions**

* Implement a Queue using 2 Stacks.  [Answer Question](http://www.glassdoor.com/Interview/Implement-a-Queue-using-2-Stacks-QTN_963925.htm)
* Implement a Person class that can have siblings, parents, and children.  [Answer Question](http://www.glassdoor.com/Interview/Implement-a-Person-class-that-can-have-siblings-parents-and-children-QTN_963926.htm)

**Interview**

the interview process paces fast, after recruiter arranged phone interview, I finished the phone interview by writing code on computer with shared board, and code can be compiled and ran. I didn't write a bug free code, I think that why I failel and I got result next day. recruiter is very professional though.

**Interview Questions**

* write code to print the matrix from outside to inside.

**Interview**

Overview:  
\* Referred by a friend.  
\* Contacted by a recruiter. Phone call for 30 minutes.  
\* Phone interview.  
\* Onsite.  
\* Offer.  
\* A bit of negotiation.  
\* Accepted.  
  
Phone interview:  
I took the phone interview at home before going to work. My interviewer was nice and friendly. I used coder-pad to solve the problem. He was very helpful. I had a bug in my code, and he stirred me in the right direction to debug without giving it away. I figured it out eventually. Afterwards I emailed him with some questions regarding Uber's culture, and I asked how it is different from a tech tech company since it's more of a business tech company. He answered my questions in details and I was very impressed by how much effort he put into it.  
  
Onsite:  
4 technical interviews (2 white-board coding questions, 1 system design, 1 live coding).  
Each interview was conducted by 2 engineers. One engineer was the main facilitator the other one just watched and jumped in whenever.  
  
It is a bit intimidating to be honest. But I made sure to make eye contact to both interviewers. They were all helpful. A couple of them had a serious look on their faces. In general they were pleasantto talk to. Questions were moderate to difficult, so manage your time wisely!  
  
The last interview with the hiring manager was more of a culture fit interview.  
  
Offer:  
I received a verbal offer the next morning, and I was very excited because I really liked Uber to begin with. Plus I have some friends there and they all enjoy being there. After a bit of negotiation I happily accepted the offer, and started working mid May.  
  
Other notes:  
\* The whole process (from referral to offer) was very streamlined, efficient.  
\* People that work here are very passionate about Uber. That's something I was looking for in a new job.Show Less

**Interview Questions**

* Why do you want to work here?

Accepted Offer

Positive Experience

Difficult Interview

**Application**

I applied through a recruiter. The process took 2 weeks – interviewed at Uber (San Francisco, CA) in March 2015.

**Interview**

I was contacted by an Uber recruiter on LinkedIn with a personalized email. I then did a recruiter phone screen, and then a technical phone screen. The next week I came in for a full day of interviews. I had to code an Android app in the interview, which was pretty cool and I think a good test of my engineering skills. Everyone was super friendly and I got to eat lunch with one of the Android teams. I had a great experience.  
  
After the interview the recruiter stayed in contact and worked with me to accept my offer. I went back to Uber several teams to meet with engineers to answer my questions about culture and just hangout.Show Less

**Interview Questions**

* Implement an LRU cache.  [1 Answer](http://www.glassdoor.com/Interview/Implement-an-LRU-cache-QTN_926676.htm)

**Application**

I applied online. The process took 5 days – interviewed at Uber in March 2015.

**Interview**

The process is ok, that guy looks busy, and i made a small mistake in the coding process, and i asked him if he had any hint. He went like oh i dont know anything about java, bla bla.

**Interview Questions**

* Input a string and output the number of words (need to run on coderpad)

Accepted Offer

Positive Experience

Average Interview

**Application**

I applied through a recruiter. The process took 1 day – interviewed at Uber (San Francisco, CA) in March 2015.

**Interview**

Got contacted by a recruiter through email (didn't know how they got my email). Did a phone interview (coding on codepad) and they go ahead schedule an onsite with me.  
  
The onsite is a half day process, with 4~5 round of interviews. It starts in the early morning and end at the lunch time. I am a pretty senior software engineer, but the interview questions I got didn't seem to be targeted for senior people. Got a few coding questions and one design question. In the last round some engineer manager just chatted with me for the whole session. For some of the coding questions I need to write on whiteboard, but for some other I get to code on my own laptop. I always hate coding on whiteboard. At the end of the interview I thought I will have to take care of the lunch myself, but recruiter brought me to the kitchen for some free lunch. The food is not so good though.  
  
They provide free Uber rides coming into and from the Uber offices, which is a nice thing to have. But the way the promotion code was confusing.  
  
I like that it only took half day. I took a Uber ride back to my town and can still work for the remaining half of the day.Show Less

**Interview Questions**

* How to recognize whether it is a banana or apple in a image.  
  Implement a short URL server  
  Design a real-time service architecture  
  Some other question that I don't remember now  
    
  The questions were not hard. I think they value more about my background and passion.

Accepted Offer

Positive Experience

Average Interview

**Application**

I applied through an employee referral. The process took 3 weeks – interviewed at Uber inFebruary 2015.

**Interview**

Initially, I was supposed to have two interview, but I ended up having three (all phone interviews). First interview, was asked about my background and to explain a project. Then, was asked a technical question. I was contacted within 10 minutes of the interview completing for a second round interview.  
  
Had a second interview a week later in which I talked to a Development Manager. Again, was asked about my background and then to explain how I think the Uber product works and how it could be improved. Then, asked an open-ended OOD question.  
  
E-mailed my recruiter 3 days after to ask about feedback and she responded within a couple hours asking to set up one more interview.  
  
In my final interview, went straight into my coding question (OOD and implementation) and went over in time a little. Was contacted within 10 minutes to set up a time to talk the next day and received my offer.Show Less

**Interview Questions**

* Using Object Oriented Design principles, design a method to check if a Sudoku board is valid (skeleton code was provided which was initially passed in through a 2-d array).

**Application**

I applied through college or university. The process took 1 day – interviewed at Uber.

**Interview**

It was one hour long interview, where I was asked the following questions:  
First 10-15 mins were related to my previous work experience  
What do you think Uber should do that they are not doing now?  
Design a system which suggests the orientations of all drivers when the user launches the app.  
Find the longest palindromic subsequence in a given string

**Interview Questions**

* What do you think Uber should do that they are not doing now?

No Offer

Neutral Experience

Average Interview

**Application**

I applied online. The process took 2+ weeks – interviewed at Uber.

**Interview**

Applied online. Got a call for phone interview. It was a 45 minute interview. Basic behavioural question and questions about my resume followed by a technical question. It was easy but got very nervous as i was not so familiar with python. The interviewer did not help push it before. But later helped with the progress.

**Interview Questions**

* Write a python program for dictionary pretty print.

Accepted Offer

Positive Experience

Difficult Interview

**Application**

I applied through other source. The process took a week – interviewed at Uber (San Francisco, CA) in January 2015.

**Interview**

The process was in 2 steps: a live coding phone screen, and an onsite. I was initially concerned about the live coding process due to bad experiences with other companies in the past, but the interview blew my expectations. It was clear that the interviewer was concerned with getting a good assessment of my abilities rather than nit pick on silly syntax.  
  
The onsite was a bit unique and included 2 problem solving sessions, 1 live coding, and 1 design section. I really enjoyed the problem solving sessions and we worked out a few very interesting problems together with the interviewers.  
  
For design section, I was asked to design a system from scratch and talk about scaling, product, and performance concerns.Show Less

**Interview Questions**

* Design from scratch and talk about scaling, product, and performance concerns.

No Offer

Positive Experience

Difficult Interview

**Application**

I applied online – interviewed at Uber (New York, NY) in January 2015.

**Interview**

Applied online and they responded about a month later. It was a smooth process -- the recruiter was very responsive and welcoming. She was very accommodating to the restricted times I could interview with them at.

**Interview Questions**

* Implement boggle

No Offer

Neutral Experience

Average Interview

**Application**

The process took 3 weeks – interviewed at Uber (San Francisco, CA).

**Interview**

An Uber recruiter contacted me via LinkedIn and scheduled a non-technical interview. He mostly talked about my background and things that I work on at my current job.  
Then they scheduled a technical telephonic interview. The interview pattern was pretty standard. I wrote programs on a shared screen. There were 2 simple programming questions (language of my choice) and one for a system design. He also asked me questions about what I work on and explained what his team works on. I got the response almost immediately that I had cleared the interview. They asked me for dates to fly to their HQ.  
Uber doesn't book anything for your travels, you are expected to book the flight, hotel and anything else you need.  
Every interview lasts for about 45 mins and there are about 5 interviews. There is a lunch break with the team for about half hour but other than that the interviews are back to back.  
The interview almost always started with questions about the most interesting project I worked on. That went on for about half of the interview.  
Then there was a programming question. The thing that was different here was that you can use your own laptop and any IDE of your choice. You can also Google for things - obviously not the algorithms but there are programming questions that may need additional input.  
I chose Eclipse. The good part about this is that you don't have to remember any functions or syntax (thank you intellisense!). The bad part (I thought) was that your program must work by the end of the interview. You get anywhere between 10 to 25 mins to do it. Write your code faster so you get time to debug your code.  
The interviewers were really nice to talk to. Very friendly and not at all arrogant.  
I was happy with the overall experience at the interviews but the scheduling process was really stressful. This is not a forum to complain but be prepared for this - They didn't send me a confirmation until 2 days before interview. I had actually lost hope. I had to book my travel and fly across the country in a day. It was a bit stressful.Show Less

**Interview Questions**

* How would you find the words that became obsolete in English language between 16th and 17th century? You may use a search engine.

Accepted Offer

Positive Experience

Difficult Interview

**Application**

I applied through an employee referral. The process took 3 weeks – interviewed at Uber inNovember 2014.

**Interview**

While I'd love to tell the exact questions I was asked, I am sure I've signed an NDA, and also every interview is different. I'll try to be as informative as possible though.  
  
Was referred by a buddy to his team, and the initial process took a little longer (about two weeks) partly due to the recruiter not reaching out immediately and that I put things off since I was busy during that period of time.  
  
The phone interview was on filling in code for an existing interface in the mobile framework, which is a not the easiest thing to do since we rely heavily on the editor to auto complete most of the time. The interviewwe was very nice and didn't dwell too much on syntax. The interviewer went into a deeper discussion about the code I just wrote, including why I think the framework was implemented the way it was, and various follow up questions about this particularly feature. The interviewer was quite helpful and offered more detailed explanations of the answers he was looking for throughout the interview.  
  
A day later the recruiter called with positive feedback and wanted to to move to onsite. I was given options of completing a coding challenge at home or onsite (an easier version of the take home I assume). I chose the take home for obvious reasons, but told him that I was going be very busy over the next few days. I eventually around to it and spent about 4-5 hours on it before submitting, after which I was knocking my head on the wall after realizing I had bugs and what not. Also I was unsure of how polished it was suppose to be, and tried to adhere to the 4 hour guideline, which we all know is not a lot of time to do anything. Two days later the recruiter called back to move onto the onsite. The feedback was that overall I did well on the coding challenge, with some problems (e.g. not demonstrating understanding of MVC, bugs, etc), but those problems will be addressed once I go in person.  
  
Interviewees are given $200 in Uber credits to get to and from the interview, which I didn't use as it wasn't enough giving the limitations. Once there, I was put into a room (which every interview complained to be very cold) for 5 one-hour interviews. Compared to other interviews I've done in the past, I felt that the Uber interview was the most effective at gauging the domain knowledge as well as programming skills of a candidate , as opposed to most other places where the questions asked are not relevant to the domain, and in the case of places like Google, completely not related to one's expertise. During the interviews, I was asked to:  
1) fix bugs and add to the project I submitted for the coding challenge, and defend my implementation with a bunch of follow up questions related to optimization  
2) answer a ton of questions on the mobile framework that tested for both breadth and depth of knowledge (not sure how I came up with some of those answers)  
3) code algorithm involving implementation and use of two data structures (was unfamiliar with the second one and had to figure it out on the spot)  
4) OOP design question (hardest one for me by far as the interviewer wanted a completely modularized design)  
5) design discussion (very interesting as the interview was a debate and I wasn't sure what the interviewer was looking for)  
  
One day later, the recruiter called to make an offer.  
  
I want to mention that the Uber recruiter was very professional and moved very fast (This is not true in many case elsewhere). Useful feedback was also given that allowed me to better prepare for the next stage. I was very satisfied working with him and at no point in time felt I like I was left hanging.Show Less

**Interview Questions**

* Design a casino game  [Answer Question](http://www.glassdoor.com/Interview/Design-a-casino-game-QTN_823488.htm)

**Negotiation**

I was unhappy about the offer at first purely for the reason that they just did a new round of financing and that I could not gauge how much the shares were worth. I asked for more options and pay, and was met half way on the pay raise request. I decided to sign when my new offer was in RSUs. It seems that Uber doesn't budge much when it comes to negotiation, unless if you were higher in the food chain or had competing offers.

**Application**

I applied online. The process took 3 weeks – interviewed at Uber (San Francisco, CA).

**Interview**

\*Phone screen with manager. He was nice asked about stuff I have worked on. Sent me online coding challenge.  
  
\*Invited onsite and had a bunch of paired interviewers. Most of them seemed really arrogant. Except one of them most of them seemed to be like technicians who had CCNA kind of certification and asked silly bookish questions. There was one from Infra who was a staff engineer and was extremely condescending. Most of the questions were very tough and the interviewers seemed to have a list that they would ask these questions from. I did not like the vibe of the people working there nor did I like the interviewers.  
  
I think the company is doing financially very well and growing explosively but their culture is horrible and people are not nice. Do not recommend working for Uber. They are not very open and comfortable negotiating salary or stock options either.Show Less

**Interview Questions**

* Find the most expensive path to traverse in a matrix.

**Application**

I applied through college or university – interviewed at Uber in November 2014.

**Interview**

Uber was incredibly kind to me throughout the whole process. I had a phone interview, where we went through a matrix navigation problem to search for an element. In the final round interviews, I got to talk about economics, statistics, and computer science in each of three interviews, allowing me to see a really nice wholescale view of the company.

**Interview Questions**

* Design a price surge system, both at a high level and the architecture

Accepted Offer

Positive Experience

Average Interview

**Application**

I applied online. The process took 2+ months – interviewed at Uber (San Francisco, CA) inSeptember 2014.

**Interview**

Submitted resume, contacted by recruiter 2 months later (this is because I stupidly didn't tell a friend I was applying so I didn't get referred. If you know someone there, get a referral!). Had a phone interview with recruiter about what I'm looking for and experienced in.  
  
Skipped the technical phone interview because I knew people there, so I went straight to the on-site interview the next week. Technical interview was fair, not as difficult as I expected. I never claimed to be a pythonista as my experience is in C, but I can write python, so maybe they took it easy on me when I wrote some non-pythonic code.  
  
Coding questions included string manipulation and graph traversals, pretty simple code but enough to gauge your algorithmic knowledge. Had one design question. Technical questions included trivia about working in a terminal and core computer science or programming language fundamentals. Afterwards had an open ended discussion with the hiring manager (now my manager) about Uber's system architecture.  
  
Contacted by the recruiter a day or two later with an offer, and started 2.5 weeks laterShow Less

**Interview Questions**

* Design an API for a service, then layout how much data your service will hold and how many machines it needs. I was purposefully rushed by the interviewer to design this, so there wasn't time to design something great.  [1 Answer](http://www.glassdoor.com/Interview/Design-an-API-for-a-service-then-layout-how-much-data-your-service-will-hold-and-how-many-machines-it-needs-I-was-purpose-QTN_787789.htm)

**Negotiation**

Yes. Go for equity.

No Offer

Neutral Experience

Difficult Interview

**Application**

I applied through a recruiter. The process took 6+ weeks – interviewed at Uber (San Francisco, CA) in June 2014.

**Interview**

Pretty standard process.  
1. Recruiter contacted me via LinkedIn, followed by short call covering the usual recruiter fluff.  
2. One hour phone call/shared code window with team lead.  
3. Full day onsite split into 1 hour segments 1-1 with team members to do a coding exercise on a whiteboard, and ask questions. Also, lunch with team. Questions focused mainly around computer science and system architecture (i.e. describing the algorithm rather than writing code, knowing the big-O complexity, etc.)  
4. Canned rejection email from recruiter  
  
There were some common traits amongst the team. One of these was that they all graduated recently from the same two top engineering schools. They were friendly during lunch, but during the interview session there was a more serious tone - almost spite - as if to see how I handled having my competence questioned.  
  
Overall it was a well organized, thorough process. I would have taken an offer given the reputation of the company.Show Less

**Interview Questions**

* Design a distributed system for sorting of large files.

Accepted Offer

Positive Experience

Difficult Interview

**Application**

I applied through an employee referral. The process took 1+ week – interviewed at Uber (San Francisco, CA) in May 2014.

**Interview**

Overall the interview process is smoothing. Met around 10 engineers there. They are smart, and have solid background. During the interview they showed respect to their candidate. You can book the hotel and flight by yourself, and reimburse later.

**Interview Questions**

* 1. Segment Tree;  
  2. How to diagnose latency in data center;

Accepted Offer

Positive Experience

Average Interview

**Application**

I applied online. The process took 5 days – interviewed at Uber (San Francisco, CA) in March 2014.

**Interview**

The hiring process was fairly quick. I applied online, got a phone call from a recruiter the following day, was asked to work on a deliverable coding exercise at-home ( took 2 days ) then they flew me in for an onsite. The onsite was as expected for an engineering position, a couple of the questions seemed a little straightforward, one live coding, then one discussion with a hiring manager  
  
I brushed up a lot on my CS fundamentals, and it definitely helped. But you need to be able to think on your feet and write working code.Show Less

**Interview Questions**

* Print all permutations of 3 pair of parens. ()()(), (()()), (())(),,,. etc  [Answer Question](http://www.glassdoor.com/Interview/Print-all-permutations-of-3-pair-of-parens-etc-QTN_903796.htm)
* Live-coding on a page that searches for images on flickr/google API via ajax and populates it using js.  [Answer Question](http://www.glassdoor.com/Interview/Live-coding-on-a-page-that-searches-for-images-on-flickr-google-API-via-ajax-and-populates-it-using-js-QTN_903797.htm)

**nterview Questions**

* Build a simplified YELP-like service.

No Offer

Positive Experience

Average Interview

**Application**

I applied online. The process took 5 days – interviewed at Uber (San Francisco, CA) inJanuary 2014.

**Interview**

I applied online and got contacted by a recruiter very soon after. He was very nice and told me about the company in some detail. He then proceeded to tell me that there was a coding challenge that I had to complete before applying. I agreed to do the challenge and got the details.  
  
For the challenge you get to pick one of a few applications that they want you to build. They say that it should only take you 4 hours, but I actually worked on it for the better of 2 days and still felt like I was missing details when I went through the code during the phone screen.  
  
The phone screen is a 40 minute interview about the code you wrote. I got the feeling they were expecting a much more thorough job than the challenge suggests. In retrospect, I would have taken care of a lot more of my TODOs.Show Less

**Interview Questions**

* My coding challenge had to calculate the nearest transit stop given your current location. They asked for an efficient way to do this. The answer ended up being something I was not familiar with, Mongo DB and such database geo location built in functions.

Accepted Offer

Positive Experience

Difficult Interview

**Application**

I applied in-person. The process took 5 days – interviewed at Uber (San Francisco, CA) inJanuary 2014.

**Interview**

I sent a direct email to a recruiter there saying I was looking for a new job and was interested in Uber. He almost instantly answered to my email offering to hop on the phone the following morning to chat about what I was looking for. We spend ~20min on the phone trying to figure out what my strengths were and what I was looking for, and we concluded that growth would be a good fit.  
  
I was quitting my job 2 weeks later, and am on a working visa, so I stressed them about being in a rush and to please make the process as fast as possible. Which they did.  
  
Sent me a coding challenge right after the phone call - Multiple choices of different APIs to use and do something about it; I did it in the shape of a backbone app with a ruby backend. Worked on this over the weekend (I found it really fun to do actually) and sent it over on monday.  
  
Tuesday I had a interview scheduled - they knew I was taking a plane Friday, so they happily scheduled the itw on Thursday.  
  
Spend about 4 hours there, split in 4 interviews of different types. Algorithms, problem solving, live code and front-end.  
All interviews were done by 2 interviewers, all from the growth team, all seems super excited about the team and the company.  
The interviews, despite being quite stressful, were actually a lot of fun.  
  
The fourth interview was a wrap up with the team's manager, who told me not to worry, everybody really liked me so they'll send an offer my way. I would negotiate offer details with the recruiter.  
We then chatted casually about his background, mine, some other random stuff and had a quick tour of the office and was introduce to random people we walked by. That was really cool and I felt really valued.  
  
I originally contacted Uber because I happened to have a hold of a recruiter's email, but was not especially into Uber. I was generally aiming a bigger startups (airbnb, sqaure and facebook were my other main choices), but this interview really just made me wanna work for the company.  
  
The next morning I chatted with the recruiter on the phone while waiting for my place. Again a nice casual chat were he asked me what kind of offer I was expecting and it all seemed really just to be about how to get somewhere that would make me happy.  
He clearly explain the stock options plan, etc.  
  
We got to an agreement and told me the offer would be taken care of and sent to me by email the following week. I instantly called all other pending offers and interviews and cancelled.  
The rest of the week was spent taking care of my visa and all went flawless.  
  
I've been at Uber for more than a year now, and I'm still convinced I made the best choice in my career!Show Less

**Interview Questions**

* Find the longest word in a grid of random letter, each consecutive letters has to be next to the previous one.

No Offer

Negative Experience

Difficult Interview

**Application**

I applied online. The process took 2 weeks – interviewed at Uber.

**Interview**

I applied on their website and had a call with a recruiter within a week. The next day he asked me to do a coding challenge. I spent the weekend doing it and within a day of sending it to them, they said I had impressed them with my work and asked me to fly to SF for a final round. Note that I had to book my own flight and hotel and I didn't get reimbursed until two weeks later. Not a big deal but be prepared to front about $1,000 if you're coming from the east coast on such short notice.  
  
The onsite wasn't very organized, people stepped in and out. I met with all engineers (besides a brief chat with the recruiter), in total about 8 - 10 people. I know for a fact I didn't do well on one interview. The interviewer had a very strong European accent and I also answered one of his questions wrong. He even laughed at me, which I thought was extremely rude. I did well on all the other interviews throughout the day.  
  
A week later I got a rejection email saying that they liked my passion but didn't think I had enough Python experience. Very much a canned rejection email.Show Less

**Interview Questions**

* Pretend I am a 5 year old and explain what an NP-complete problem is.

No Offer

Negative Experience

Average Interview

**Application**

I applied through an employee referral. The process took 5 days – interviewed at Uber (San Francisco, CA) in April 2013.

**Interview**

I was referred to Uber by an acquaintance. After a standard phone screen, I was asked to complete a coding exercise that would take 6–8 hours. While I approve of coding exercises as an interviewing technique, a working day is a rather large time commitment so early in an interviewing process. I politely responded that I would like to see how my other interviews (which were much further along) conclude… Show More

**Interview Questions**

* Please find our standard web test below!  
    
  Code Test! Bam!  
    
  Uber clients are able to store favorite locations for easy pickup requests. Create a backend and a frontend for managing favorite locations.  
    
  This is a simple exercise, but organize, design and test your code as if it were going into production.  
    
  When you’re done, host it somewhere and provide us with a URL and a tarball or Git repo with the code.  
    
  Backend  
  Using the language (Python preferred), libraries and data store of your choosing, create a JSON in/out RESTful API for managing favorite locations. Stay away from Django or Rails, but microframeworks like Flask (preferred), Sinatra or Express are fine.  
    
  Attributes of a favorite location object include: id, lat, lng, address (e.g. 800 Market Street, San Francisco, CA 94114), name (e.g. Work)  
    
  Frontend  
  Using JavaScript, Backbone.js and any other libraries of your choosing, create an interface to access the API. User should be able to:  
    
  Create a new location  
  Read/view a location, and a collection of all locations  
  Update an existing location  
  Delete a location  
    
  The UX is up to you, with a couple of constraints:  
    
  Incorporate a map  
  Geocode the address so the user is not required to enter lat/lng  
    
  Extras  
  If you like, get creative and do whatever else you like on the backend and/or frontend to show off.

Declined Offer

Negative Experience

Easy Interview

**Application**

I applied online. The process took 2 weeks – interviewed at Uber (Amsterdam (Netherlands)) in May 2015.

**Interview**

The interview went great and the developers who conducted one were pleasant and polite.  
  
ATTENTION: Don't trust a recruiter. They claim that will do a reimbursement for your travel expenses, but they won't. They just start to ignore all emails. Save your money and don't repeat my mistake.

**Interview Questions**

* A challenge you're proud of.  [Answer Question](http://www.glassdoor.com/Interview/A-challenge-you-re-proud-of-QTN_973634.htm)
* The most interesting experience of debugging a program.  [Answer Question](http://www.glassdoor.com/Interview/The-most-interesting-experience-of-debugging-a-program-QTN_973635.htm)
* Write a fault tolerance client for a web service.  [Answer Question](http://www.glassdoor.com/Interview/Write-a-fault-tolerance-client-for-a-web-service-QTN_973636.htm)
* Write a log replication daemon.  [Answer Question](http://www.glassdoor.com/Interview/Write-a-log-replication-daemon-QTN_973637.htm)

电面: 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.   
一开始对方先简单的介绍自己, 然后轮到我简单的介绍自己, 接着挑了一个自己的项目介绍.  
  
紧接着是算法. 对方先出了一道题, 问我见过没有. 我表示我见过... (Word break LC原题) 于是对方又换了一道题 (Reverse Words in a String II  还是LC原题). 但是这次就没有问我做过没有了, 简单讲解思路后麻利的写完, 并且写了简单的case测试. 途中也讨论了特殊情况并且印证结果 (比如leading & trailing space的处理). Follow up是加入符号但是reverse的时候需要保留位置. 我大概讲了一下想到的两种思路, 不是最优, 并且由于时间不够, 也没有写完. 面试官最后提了一下最优思路(用Double Stack)并且让我问了几个问题后就结束了.  
  
  
大概不到一个小时后收到邮件表示可以move on.  
  
  
Onsite:. from: 1point3acres.com/bbs   
第1轮: OO Design. 设计Excel. 本身不难外加面经见到过, 所以准备充足. 现场手提接上投影直接在IDE里面code, 用IntelliJ那叫一个爽快 :) 结束后对方还问了我一些关于Java的问题.   
  
  
第2轮: Sy[stem](http://www.1point3acres.com/%E7%BE%8E%E5%9B%BD%E5%9B%BD%E5%9C%9F%E5%AE%89%E5%85%A8%E9%83%A82012%E5%B9%B4%E5%BA%A6%E6%9B%B4%E6%96%B0stem%E4%B8%93%E4%B8%9A%E5%90%8D%E5%8D%95-%E7%9C%8B%E7%9C%8B%E4%BD%A0%E7%9A%84%E4%B8%93%E4%B8%9A/" \t "_blank) Design. 设计Instagram. 全程对话, 基本就是画图解释回答问题. 由于准备有好好地准备这一块, 所以基本还是能流畅的进行. 虽然总体感觉一般般.  
  
第3轮: Project & Algorithm. 先是展示自己的Project, 现场我也是直接打开IDE来展示Code, 解释主要的Component, 并且回答疑问. 接着在白板上做了一个简单的算法题: 给一个linked list, 返回一个reversed copy, 原来的不能改变. 我先写了一个用Stack的简单解法, 然后对方要求再来一个O(1)空间的, 思考一小会后就解释一下思路并且写了code. 写完后提示有bug, 检查发现后改掉了. 最后要求整洁代码, 又被提示有个小bug, 囧... 在提示下改了..鏈枃鍘熷垱鑷�1point3acres璁哄潧  
-google 1point3acres  
第4轮: All kinds! 先简单展示自己的一个Project, 然后问了一些Javascript和Java语言特性的问题(顺道写了一个Singlinton的例子). 接着问了一个判断Palindrome的题, 讲了各种解法后写了一个双指针的代码, 然后又问了一个关于Binary Search的算法题. 最后是一些传统的Behavior questions.  
.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�  
  
前三轮都是Engineer, 最后一轮是Team Manager. 总体感觉, 每个人都很Nice, 包括前后两个Recruiter, 所以现场一点压力和紧张感都没有. 而且还有最喜欢的伊藤园茶免费喝.... 难度的话, 仅就算法来说的话并不算太难. 但是考察的还是相当全面的, 并且感觉Behavior question也很重要. 所以是有必要好好的准备一下的.  
  
不得不说的是, Uber的效率的确很高, 两天后就收到了Offer. 也总算可以喘口气了.  
最后祝愿大家都能拿到Dream Offer :)

终于在最后一刻找到工作，发帖回报地里。  
楼主Mobile方向，有5年iOS开发经历，本科同济SE，Master USC CS。国内有三个月实习经历，来美帝后有8个月Start Up实习，均为iOS方向。  
  
  
因为实习的原因，[找工](http://tinyurl.com/lwszxst" \t "_blank)作开始的比较晚，一直拖到14年10月左右才开始正式[刷题](http://www.1point3acres.com/bbs/forum-84-1.html" \t "_blank)和投简历。11月左右收到Google电面，滑雪题，做的乱七八糟还是拿到了onsite，当时还窃喜一番。后来据同学和Google HR求证，Google Onsite通过率只有8%。果不其然挂了。两周后拿到的据信，HR打电话说的，通知方式非常诡异。. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴  
  
之后很长一段时间杳无音信，各种简历拒。终于3月份的时候在USC Career Fair上拿到了Yahoo的面试。这里插一句，Yahoo在Career Fair上如果不给你第二天的On Campus Interview等于是直接据你，不确定是USC个例还是普遍如此。当天晚上HR发短信要了电子版简历，当时没看到，隔了一个小时才回，结果居然告知我明天要面试我的Mobile Engineer生病了，只能过后再安排面试。于是再次杳无音信。之间发邮件催过，居然回复了模板据信，再次Follow Up后HR才回信说知道我的情况，尽量帮我安排On Campus Interview。之后过了不到一个月左右，突然收到邮件说本周五有所谓Yahoo Day的集体招聘，问我是否可以来。于是就这样免了一轮面试直接On Site了，算是因祸得福。Yahoo的New grad招聘从今年起改成了三轮面试，其中第一轮面了Sy[stem](http://www.1point3acres.com/%E7%BE%8E%E5%9B%BD%E5%9B%BD%E5%9C%9F%E5%AE%89%E5%85%A8%E9%83%A82012%E5%B9%B4%E5%BA%A6%E6%9B%B4%E6%96%B0stem%E4%B8%93%E4%B8%9A%E5%90%8D%E5%8D%95-%E7%9C%8B%E7%9C%8B%E4%BD%A0%E7%9A%84%E4%B8%93%E4%B8%9A/" \t "_blank) Design，设计Flickr，楼主正在上一门Multimedia System，于是乎扯了好多Image Compression的东西。之后又做了一个图论题，其实就是无向图拓扑排序。第二轮是OO Design，或者应该说更偏向数据结构吧。  
. Waral 鍗氬鏈夋洿澶氭枃绔�,  
  
addPlayer(name, score) <= O(n)  
getScoreForPlayer(name) <= O(n)   
getTopKPlayerByScore(k) <= O(k)  
  
时间复杂度那里可能略有出入，印象不深了。总之楼主是用Hashtable + BST做的。之前搜到过其它的面经有用Hashtable + Bucket来做的，思路很神奇。这道题让我重新理解了C++的map，之前一直不知道它的判等原来是用a < b && b < a来实现的。 第三轮是面经里提过的经典题，给定一系列Statement，如A = B，A = C，B = C，A != C，判断是否有矛盾，网上有解决方案，按下不表。私以为我发挥的还不错，而且Yahoo最近新员工招的挺厉害的，又有重点发展Mobile的战略，感觉会有Offer。然而我再一次天真了。我是3月6号面完，然后直到今天，4月30号，HR还是没有理我。尝试联系了各种我认识的Yahoo HR，无一回复。  
  
.鏈枃鍘熷垱鑷�1point3acres璁哄潧  
我个人觉得公司据人据的快要比拿Panding Offer吊着你强的多得多。以我为例，从面完Yahoo开始的一个月里我每天都经历着希望于失望的循环。插一句，和我同一天面的小伙伴，有一人是三周后拿到了Offer，之前也是各种催但是没人回复，还有两人是在面试后两周收到Hiring Manager口头Offer。  
  
在焦虑中意外拿到了Uber的面试，两轮电面，每一轮结束我都觉得肯定没戏了，但是还是给了Onsite。怀着感激而忐忑的心情去了SF，经历了十分诡异的三轮面试（前两轮都是纯System Design + 聊天），周五面完周二拿到口头Offer，周三收到Offer Letter，然后今天我就签了。  
  
简单说下面试题目，因为我是面Mobile，电面两轮全部都是Objective-C，中等难度，需要OC熟练度。Onsite第三轮是算法，都是经典题目，真心不难。Uber各个组的招聘流程完全不一样，所以同样面Mobile方向的小伙伴不要被网上Backend的面经吓倒。题目可能有点敏感，我就不在这里说了，有兴趣可以私下谈。  
  
总结一下这几个月的经验和得失。有一些大公司比如Facebook和Linkedin需要早投，最好年前9月就开始，因为会在招满后Freeze。另外一些大公司比如Google需要晚投，因为Onsite通过率太低，需要绝对的手感和面试经验。明星Startup，我只能说得之我幸失之我命，运气成分太大。最后说一个小Tip。曾经帮我代理车险的律师语重心长的规劝我，面试一定要穿正装，理由如下：  
  
“不要求你穿正装不意味着你不穿才更好。面试你的人不穿正装不代表你可以不穿。穿正装是因为重视。”  
  
面Uber的时候迷信一样的穿了，最后拿到了，所以我的正装拿Offer率为100%。. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷

这周二面的Uber，HQ在Downtown SF，离Twitter的HQ非常近，公司租了那幢大厦的四层楼做办公室。工作环境呢，环境优雅的大网吧，外面看起来很有商业气息，blue dot, dark background，etc.  
Recruiter本来跟我说约好在12:45 开始，哪知又中途改了时间不告诉我 =.=  后来拖到13:30才开始面试。一共4轮。  
第一轮，一位澳洲 Sr SE, 一上来非常非常具体地跟我介绍了他们team的整体情况，进一步了解了他们team究竟在做什么。然后他叫我做下简单的自我介绍，然后开始Sy[stem](http://www.1point3acres.com/%E7%BE%8E%E5%9B%BD%E5%9B%BD%E5%9C%9F%E5%AE%89%E5%85%A8%E9%83%A82012%E5%B9%B4%E5%BA%A6%E6%9B%B4%E6%96%B0stem%E4%B8%93%E4%B8%9A%E5%90%8D%E5%8D%95-%E7%9C%8B%E7%9C%8B%E4%BD%A0%E7%9A%84%E4%B8%93%E4%B8%9A/" \t "_blank) Design。这次不是Netflix, 不是Instagram, 不是Yelp, 来吧，咱们做一个Uber吧 =.=  ... 主要讨论了用户请求和司机接收的那一块，非常open ended, 各种trade off。主要都是在交流，最后问了几个小问题走了。  
第二轮，北航小哥，做中国市场group，一样题目没有变，给你一幅黑白图，让你判断是苹果还是香蕉（此处感谢万能的一亩三分地和各位面经分享者），讲讲都有哪些方法和他们的trade off。最后剩下5分钟，也是问问问题就走掉了。  
第三轮，一位ABC，主要做的是experiment方面，一上来跟我讲了讲AB test，我说我木有用过，他很耐心地给我讲，非常nice。接着我给他讲我这几天在学的东西，把代码给他一起看。然后做一道Spiral Matrix，慢慢一起和我分析，最后问完问题之后还给我留了邮箱。  
第四轮，Engineering Manager，国人，从FB跳槽过来的，跟第三轮小哥是一个team，一看就非常屌炸天。双方自我介绍之后，我讲了一下暑期实习的内容，然后问了那个非常屌的问题，Why Uber？然后咄咄逼人，一定要把我问到非常非常尴尬，问到最后make sense为止...汗... 因为有说喜欢中国市场那个方向，从中国市场聊到了car pool 问题，在白板上画思路，做了很多assumption，最后点到U家的一个算法，他也挺满意。最后问了问他有关FB和Uber的问题。  
最后Recruiter带着我回到一楼，说尽快会给回复你哒。  
昨天收到消息说挂鸟，不过去Uber Onsite的体验真的挺好的，大家都有一种冲劲，非常地有passion，我想了一下大概挂的地方是在跟Manager的cultural fit上， 估计并没有做到能一下子看到你的passion（昨天早上看到消息说广州的Uber被查，下午就挂掉鸟，看来在China Group有机遇也会有风险的）。不过能有机会近距离接触这么有前景的公司已经算很走运的啦！安心去硅谷磨练两年再说吧~

这两天闲下来了，报个offer， fulltime @ Uber  
感觉地里报他家Offer的不多，mitbbs里面有几个，还有去他家的同学认识起来呗~  
  
面试的过程非常smooth. 自己网上投的，大概2周有recruiter联系，然后就是安排电话面试，就一轮，面试的大哥非常nice，感觉他们还是很重视cultrue fit的，蛮重视startup spirit的。当晚收到通知说过了。然后onsite安排在一个星期后。4轮tech面（有3个哥们是从fb跳过去的。。。），面完后recruiter说，next business day就能知道结果，我是周五面的，接下来周一就收到了offer。  
  
总的来说，公司给我感觉很不错，跟recruiter还有mngr交流都比较舒服。. more info on 1point3acres.com  
  
-------------------------面经---------------------------------------------------面经--------------------------  
. from: 1point3acres.com/bbs   
. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
记得不是很全了.1point3acres缃�  
1. 3个长度一样的array a1, a2, a3, 找出所有 A + B = C 的组合，A在a1里，B在a2，C在a3里；扩展到4个数组 a2, a2, a3, a4，找出A+B+C=D的组合。。 然后扩展到n各数组；做完了又给了一道题目，不难，忘了。。  
2. 一个系统里面，有user 在不断的login and logout, 现在给你几组user的（username, login\_time, logout\_time)的数据，打印出各个时间点系统有几个active user；follow-up，修改我的实现，让我的函数支持 类似JS的callback机制  
3. 面我的是一个中国人神牛。因为我说我用c++,然后感觉他临时选了这道题给我。。 reader-writer problem. 用mutex 实现user-writer problem。 follow-up，问会有什么问题，其实会有starving 的情况发生，然后一起商量怎么处理  
4. 忘了 =。=. 1point 3acres 璁哄潧  
------------------------------------------------------------------------------------------------------------------. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
  
. 鍥磋鎴戜滑@1point 3 acres  
差不多就是这些了。  
我的分少的可怜，看官要是给点儿[加分](http://www.1point3acres.com/bbs/forum.php?mod=collection&action=view&ctid=5&fromop=all" \t "_blank)那是极好的，哈哈  
. 1point 3acres 璁哄潧  
  
  
. Waral 鍗氬鏈夋洿澶氭枃绔�,  
**补充内容 (2015-1-23 17:39):**  
第三题是reader-writer，不是user-writer, typo!

已定F家实习，准备优雅地拒掉（挺痛苦的其实），纯分享面经。  
土木转行所以细节可能粗糙，请谅解。  
  
写在前面：-google 1point3acres  
因为是土木转行找实习，去年秋天上OS和Network恶补基础知识，leetcode和CC150也是12月底才开始刷，从1月初才开始全面[申请](http://www.1point3acres.com/application-guide/" \t "_blank)，相对是比较晚的了。  
三个月来一边面试一边[刷题](http://www.1point3acres.com/bbs/forum-84-1.html" \t "_blank)一边上master，至此本次[求职](http://tinyurl.com/lwszxst" \t "_blank)正式结束，所有拿到面试的，没有被任何一个初面卡住，100%进入最终轮（电面或者Onsite）。90%以上都是内推。  
-google 1point3acres  
直接被无视的：LinkedIn（太晚了），Twitter（秒拒，肯定是简历关键词不够），Apple（内推人投错去retail部门），Airbnb（太晚了），Amazon（不够帅？）。  
过了面试，太晚没坑的：微软（本来就裁很凶了），Google（0 host），Snapchat（CEO小哥亲口说没headcount了，我懂的，么么哒），Oracle（0 host）。  
面到最后，因为实力不济的：Palantir（当天上午作死去面BlackRock结果下午精力不够）。  
可以面试，主动放弃的：TripAdvisor（来信太晚），VMware（没兴趣，直接裸做OA然后写面经造福小伙伴），Dropbox（和其他onsite撞太凶而且偏晚）。  
OFFER：EPIC，BlackRock，Yelp，Facebook，Bloomberg，Uber，从了Facebook（Uber表示没法提前onsite，唉）。  
  
因为基础薄弱，我Leetcode都是直接看答案然后理解思路，所以根本是很粗糙的半遍，Hard大部分碰到了根本做不出来，CC150也是最多记住思路，所以解题实力和基础功力肯定是不如大部分准备扎实的人。哪怕我在一边面试的过程中也一边刷题外加上算法课，最后Leetcode也只是从120提升到了150的样子。看很多朋友的面经，不得不感叹自己还是挺Lucky的。个人感觉，我对于面试中刷题以外的部分的注重和锻炼，起到了相当大的作用。近期准备写一写自己的心得总结，针对非刷题部分（刷题部分前辈们总结很完美了），希望能够为地里的大家提供一个新的面试思路。  
  
感想：  
1，Uber家美女真多啊。。。好吧不开玩笑，他们家的女码农是挺多的，内推我的大妞多谢啊。  
2，不愧是Uber，问的题不能算难，但是真的挺全面，不只是单纯算法，还会考验一些基础工程能力。. From 1point 3acres bbs  
3，Why Uber这个问题一定要能准备好多种多样的答案，可以肯定Hiring Manager是会问类似问题的。  
4，面试官之间会简单交流之前问了什么问题，所以不用担心问题重复，如果真的重复了也肯定是说好的。  
5，一般会让你打开笔记本写代码跑测试，投射到大屏幕上，分辨率会因此被自动调高，可以先调低分辨率，不然字太小了。  
  
Onsite：  
一轮：ABC小哥，看起来很有肌肉的感觉，天了噜比我聪明还比我肌肉多。. more info on 1point3acres.com  
. 鍥磋鎴戜滑@1point 3 acres  
1，Run-Length Encoding，就是把aaabbcccaaaa变成3a2b3c4a这样，要求encode后的信息要比原来的短。. more info on 1point3acres.com  
  
首先暴力扫描之。然后问有什么问题，答曰decode的时候111aaa会encode成313a然后decode成313个a。提出每encode一个就插入一个特殊符号标记，他说可以。然后追加问是否可以不用特殊符号，答曰创建新的计数单位，比如用A代表1B代表2，然后aaa就变成Ca（you get the idea），这样就不需要插入额外符号了。  
  
2，Anagrams，原题，给一堆string，分析有多少组anagrams和各自对应的anagram。  
  
其实没写过原题，只是知道思路。先说用HashMap存计数，然后map的key用任意的anagram。然后说如何比较anagram，先说排序然后比较，然后提出用类似counting sort的线性扫描，然后再提出可以用上面这题的encode方法，用一个额外常数大小的辅助map存储string里不同字符的counter，然后格式化打印该map（比如aacb，经过map扫描然后稍微格式化一下就是2a1b1c），然后对比主map即可。最后打印主map。  
  
3，上面两个都是聊天，选一个出来写代码并且跑一些测试结果。  
  
二轮：英伦小哥，看起来相当瘦弱，和上面的是同一个组的，天了噜比我聪明还比我帅。  
  
1，全程其实就一题，设计spotify的当前TOP10榜单，显示的是当前正在被播放最多的10首歌。  
  
见仁见智的题，小哥会一直问细节问设计。我能记得的考点：  
－用min－heap存TOP10的话，存哪里（缓存），如何维护。播放次数肯定需要一个大的table来存，用什么类型的存储（Redis很万能）。  
－用户点击播放或者暂停或者下一首后，这个更新POST到服务器之后服务器应该做什么，这里可以用到消息队列，把更新TOP10和数据库的功能交给worker去做，服务器只负责传递信息。  
－worker处理完信息发现需要更新TOP10之后，如何通知服务器并且在客户端那边更新。这里就是一个pub／sub的概念（Kafka万能啦），同时需要有socket池来通知客户端去更新（Python的话就Socket.IO咯）。. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
－如何减少操作量，比如把一些server的操作移到worker，增加一些条件检查不用每次把整个流程跑一遍（可以提前结束或者跳过某些部分）。  
－线程安全和原子操作性（Redis里的INCR和SET的区别还记得嘛），如何保证多个worker接到同一个歌的update能正确操作。（RCU锁之类的）。-google 1point3acres  
－worker挂了怎么办，server挂了怎么办，存heap和table的服务器挂了怎么办，整体的瓶颈可能是哪里（大量人听同一首歌，会导致一个歌不停被update＋1，这个其实可以aggregate起来），如何优化（就增加一个aggregator），这个优化的服务器挂了怎么办。大致来说都是用备份服务器，然后备份里放一段时间内的起始备份和一个追加操作的log，类似GFS那样。  
－假如我们不追求performance，只追求用户体验，上面提出来的方案应该如何优化。这里就是让备份服务器牺牲空间和效率来定期完整备份主服务器，主服务器挂了直接换备份的上。所以要增加一台Master服务器来管理这些，然后Master服务器本身又要备份。。。就看你愿意说多细了  
－有哪些现存技术可以直接实现这些东西，改进的可能性，这里就是show你的buzz word储量了。  
  
三轮：技术大佬，看起来就很睿智，天了噜比我聪明还比我睿智。  
  
1，我个人觉得最有意思的一轮，可能其他人觉得不这样吧。让我实现word count。  
  
先让我别写程序本身，问我一般怎么review和debug一个word count代码。先说了general的peer review，style guide还有yellow duck debugging之类的。最后那个我瞎扯调节气氛的XD。.鏈枃鍘熷垱鑷�1point3acres璁哄潧  
然后问我知道不知道如何验证程序的正确性，我说test吧，然后他问如何test。我说好像工业化一点的是unit test，然后对方来劲了说你开始写代码吧，顺便写个unit test。  
先把代码简单写了下，main里手动输入了input看了下结果，感觉OK。然后承认没写过unit test，被告知可以google，果断打开google抄例子，改写，测试，debug，通过。  
然后要我输出word count结果并且按照word排序，依稀记得TreeMap有这个效果，又是直接开google验证想法，确认了直接改写代码，再次改写unit test测试输出顺序。. 1point 3acres 璁哄潧  
然后要我输出word count结果并且按照count排序，直接google了一个根据value排序hash map的方法，并且改写unit test测试输出顺序，结果发现结果不正确。debug时间不太够，转去让我问问题。问问题的时候想到因为复制来的方法里会新建一个内容相同的字符串但是内存地址不同，导致查找key的时候会无法找到，对方表示这个分析很好。结束面试。  
  
四轮：Engineering Manager，就是Hiring Manager了。天了噜比我厉害还比我美。  
  
1，各种聊天聊项目聊他们做什么，问你想做什么在追求什么挑战。  
  
这里就是show你的激情的时候了。如果这个HM感觉你不适合他们组但是适合别的组，会追加面其他的Manager。我个人是很想做product还有见识下工业界的工作方式和设计哲学，所以就按照这个方向说下去了。  
. 1point3acres.com/bbs  
2，超简单的piglatin函数。  
  
要求详细描述思路，不要一步到位，就慢慢和她从暴力操作string聊到stringbuilder再聊到corner case处理。期间她也不断追加新的input类型，最后皆大欢喜。  
  
3，Why Uber？ 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.   
-google 1point3acres  
因为将来全职有机会去中国出差！是的，我遵从自己的本能，直接这么说！当然了，还说了别的七七八八的，我本来对他们家就很有兴趣（可惜面试安排太晚而且没法提早，只能从了别人），所以这样一个问题作为我求职的finale，实在不能再合适了。  
  
4，因为之前和recruiter提到自己很急（其实已经签了），所以当场让我等了下就口头offer了，唉真是一种说不出的感觉。  
  
最后，祝愿各位都能拿到心仪offer，开心过暑假。

   上上周突然收到Uber的电面通知，之前招人内推的终于有结果了。但是上地理看了下面经，心如死灰啊。即使电面过了，onsite铁定过不了， 什么设计excel这种东西，听都没听说过。 然后看了看电面的面经，感觉也不简单（主要还是自己太渣），本人东部公立学校小硕一枚，去年开始才接触程序这个玩意。到今年leetcode刷了一遍多点，感觉自己好渣。然后果不其然，这次电面就被虐了。进入正题：  
   电面的是个国人大叔，第一次约到周四，结果被放鸽子，重新安排到周二，接到电话先让介绍下自己，巴拉巴拉说了一下，他就说：恩，好， 然后开始慢慢问些technique的问题，问了问什么是array啊， 和arraylist的区别啊， 心想国人大叔就是好，这是要放水的节奏啊，心中窃喜。然后楼主犯二逼的事情就来了，当问到tree和graph的区别，楼主很二的说了句：traverse data的时候performance不一样（太尼玛想抽自己了，明明是在问概念）。然后国人大叔估计很无奈的说：这个不是最主要的，还有没有？ 脑子突然短路，说了句：tree有root，graph没有。面试官：恩，还有么？就想不起来了，啊啊啊啊啊啊啊~  
  国人大叔，没问project， 没问简历，就是聊天，最后最了一道题。估计最后挂在这道题上了。 题目： 一个二维数组，m \* n， 给一个起点，给一个终点，让把从起点到终点的元素加起来，返回加合（心中窃喜，太简单了）。就说用for循环就行，讲了下最naive的方法，两层循环。 写完，问有没有优化，心中有窃喜，把sprial matrix的方法讲了下，以为通过了，谁知面试官说了句：恩，这个不是我想要的，而且感觉复杂度没变。啊啊啊啊啊，难道是我[刷题](http://www.1point3acres.com/bbs/forum-84-1.html" \t "_blank)刷错了，这可是我刷得不多的几道题之一啊。这时时间快到了，让我问问题，我就问了优化到底怎么优化，面试官说了什么从四个角那开始，要先pre-process啊，巴拉巴拉， 不懂啥意思（还是自己太渣）http://www.1point3acres.com/bbs/static/image/smiley/QQ/em03.gif。就挂了。不出意外，两天后收到邮件说挂了。哎，感觉国人大叔还是挺好的，没咋为难我，还是自己基础和题刷得不够。继续刷题吧。  
  
PS： 求人品，求[大米](http://www.1point3acres.com/bbs/forum.php?mod=collection&action=view&ctid=5&fromop=all" \t "_blank)。全程拿英文对话，中国人和中国人用英文，你们懂的，沟通也不是很顺畅。所以，挂的毫无悬念。

Uber我大概是在11月份网申的，没找内推直接海投。当时我压根没报什么希望，没想到简历被挑了出来。没有HR面，没有OA，直接给了电面。Uber的招聘流程特别简单，电面->Onsite->Offer。  
-google 1point3acres  
    Uber在面试之前都会把面试官的名字告诉你。我电面的时候看名字面试官叫Jonathan，看起来是个挺普通的白人，结果接起电话来发现是个印度小哥，因为Jonathan有急事于是临时安排了他来面试。。。不过他人还挺好的，整个过程聊得很开心，coding题是Letter Combinations of a Phone Number，Leetcode原题，十分钟不到直接秒杀。写完之后我还等着写第二题，结果发现他根本没准备第二道题，于是乎只好又扯了十五分钟淡。早晨面完，下午就收到HR邮件，安排了Onsite。  
鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.   
    Onsite一共四轮，前三轮是和组里的engineer，最后一轮是manager面。  
    
    第一轮是个北航毕业的国人，问了一个很好玩的问题：输入一个picture (矩阵)，'w'代表白，'b'代表黑，要求写一个函数，判断这幅图是banana还是apple。完全是开放题，最后我用一个很鹾的方法勉强写完了。最后我问他你对这道题的想法是什么，他告诉我之后我感觉，可能他自己也没有特别肯定的标准答案。。。  
  
    第二面是个法国帅哥，问了一个设计题：假如你要负责设计一个service，可以接受客户提交的任务，并定时为客户执行这些任务（比如一台server，客户可以提交一段script，然后每天执行一次），那么你需要客户提供什么样的信息？你打算提供怎样的接口？这道题也很开放，聊着聊着就说完了。剩十分钟左右的时候又问了一道coding，Merging k sorted arrays。很常规，然后轻松做出。. Waral 鍗氬鏈夋洿澶氭枃绔�,  
  
    第三面是个不明国籍的白人，问题是实现一个shorten URL的功能，比如输入“http://www.1point3acres.com/bbs/forum.php?mod=post&action=newthread&fid=145”，输出“bit.ly/9sJ0aX”，同时输入shortURL也可以得到原始的longURL。其实很简单，构建一个包含所有数字和字母的dictionary，用随机数生成shortURL，然后用HashMap相互转换就可以了。这道题要求直接在LapTop里敲，屏幕投影到大屏幕上，然后当场编译出结果。我用了Eclipse，结果花了很多时间跟面试官纠结如何生成随机后缀，加上面试官并不熟悉Java，最后时间到的时候只写完了Long->Short的部分。  
  
    最后一面是team manager，中年韩国人。刚上来就问我为什么之前的一轮题没有做完，然后又问我为什么你喜欢Python却用Java来面试。我一下子就被这两个问题给整懵了，能感觉得到他对答案并不满意。问了一堆behavior之后，coding题直接丢给我一道reverse linkedlist... 面试的时候聊得很不舒服然后直接给简单题，一般都是面试官不耐烦了想赶紧完事走人。整个这一轮都极其不顺利，面试结束之后我想起这一轮中的种种细节，越想越觉得危险。果然，第二天一大早，就收到了一封没有Congrats的邮件，跟Uber的缘分也就告一段落了。  
  
    感受：面试过程行云流水，从电面到onsite再到得到反馈，整个流程毫不拖沓，给人的感觉非常之痛快。Uber的Office没什么特别的，倒是他们家和Twitter的HQ相隔不到一个block，十分方便各路大神跳槽刷期权。最近明显Uber有扩张的趋势，电面给的很多而且bar并不高。Onsite的难度也算正常，所以大家都可以去试试看。Uber最近给的offer待遇都很一般，但我觉得他们家涨薪水是迟早的事，否则就那么一点base，加上上涨空间已经不大的期权，是根本没法从FLG手里挖到人的。  
  
    最后说一句题外话，为什么最近一亩三分地如此的慢，刷出一个网页简直比拿Uber的offer还难。。。各位版主管理员们赶紧想想办法啊。

Uber店面.-google 1point3acres  
问了什么是RPC, 怎么实现的. Linux的file sy[stem](http://www.1point3acres.com/%E7%BE%8E%E5%9B%BD%E5%9B%BD%E5%9C%9F%E5%AE%89%E5%85%A8%E9%83%A82012%E5%B9%B4%E5%BA%A6%E6%9B%B4%E6%96%B0stem%E4%B8%93%E4%B8%9A%E5%90%8D%E5%8D%95-%E7%9C%8B%E7%9C%8B%E4%BD%A0%E7%9A%84%E4%B8%93%E4%B8%9A/" \t "_blank)的结构, 最后让我自己设计一个结构可以存很大的file.  
接下来是算法题: 有一个很长的list<pair<int, int> > 第一个int 的这个node的序号，第二个int 是这个node 的weight。 写一个函数返回node的序号， 比如：  
(2, 3)->(3, 5)->(1, 7). 那么返回2的概率是（3／15）， 3的概率是：（5／15），1 的概率. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴

抱歉啊, 没有写清楚, 是要返回node的序号, 但不是等概率的返回, 概率要根据node 的weight 来计算

刚面完  
  
题目就是计算表达式  1+2\*3+4 = 11可以去搜parse mathematical expression,不考虑括号  
  
一开始想先转逆波兰表达式 结果越写越复杂 磕磕绊绊写了50分钟 将近100行代码，最后才搞出来。但时间超太多了  
  
估计跪了. 1poi

面uber之前看了地里些经验，感觉受益颇多，签uber了，来发一个帖给未来的大伙们多累积个经验，顺便跪求未来的同事们，找找组织~~~. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴  
onsite开始啦，先在楼里转一圈。。。  
1. 和recruiter聊天。。有什么pending offer, onsite什么的-google 1point3acres  
2. 第一轮面试开始了，算法题，简单的，一个是类似anagram，一个是类似word break，妥妥的。。。  
3. 第二轮面试开始了，design，分析api。。。不大会。。。面试官提示的，我觉得面的不大好，但是这个也没个准头，也不会真有人好到一下就能把所有api说得清清楚楚完全没错吧。。。  
3. 第三轮面试，现场coding，run， debug，题目是shorten url。。。. from: 1point3acres.com/bbs   
4. manager面，和manager聊behavior，manager问觉得自己擅长什么，弱项是什么，觉得自己熟悉的语言是什么，我是c++，那能给自己打多少分，别的语言呢，这样的题目。然后又做了个简单的算法题。  
5. recruiter又来聊了聊，送到电梯口，结束了。。。. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
  
recruiter说第二天周五，或者下周一会给结果，结果加了一轮电面，是和另一个team manager聊，感觉是换了个组，不过非常顺利。.鐣欏

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x

这个号是楼主朋友的，楼主借来发个面经。. 1point3acres.com/bbs  
. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
楼cs ms毕业，工作一年骑驴找马中，拿到了thumbtack和uber的onsite，因为这两个厂的面经较少，这里来说说这两家的面试情况。  
. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
thumbtack:   
这里要先感谢[W大](http://www.1point3acres.com/" \t "_blank)的引荐， 然后我顺利拿到了thumbtack面试。  
第一轮：code challenge.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�  
第二轮: 电面，一个在thubmtack工作了三年的人面我的，题目简单，leetcode常见题型，说了说时间复杂度之类的后面试官就让我问问题。这里值得一提的是在codepair上写要能run, 好像现在startup 都是这种风格.  
onsite:  
我是周四下午电面的，周一拿到onsite.thumbtack onsite是我面过所有公司中时间最长的，但是也挺欢乐的体验。公司从外面看很不起眼，感觉破破烂烂的，进去后发现里面的装修别具一格，有fb的感觉。公司现在还不算大，总共才有30几个engineer.  
onsite从上午10点半到下午4点半结束， 有三轮coding， 一轮sy[stem](http://www.1point3acres.com/%E7%BE%8E%E5%9B%BD%E5%9B%BD%E5%9C%9F%E5%AE%89%E5%85%A8%E9%83%A82012%E5%B9%B4%E5%BA%A6%E6%9B%B4%E6%96%B0stem%E4%B8%93%E4%B8%9A%E5%90%8D%E5%8D%95-%E7%9C%8B%E7%9C%8B%E4%BD%A0%E7%9A%84%E4%B8%93%E4%B8%9A/" \t "_blank) design， 一轮cultral fit, 中间有跟ceo & co-founder 一起吃饭。  
第一轮和第二轮是coding,算法题很简单,都是常见题型.第一轮需要在电脑上coding(最好能run). 第二轮是直接白板. 这里值得一说的是这两轮的题目都不是原题,第二轮的面试官跟我说第一轮和他这轮的题目都是从他们实际工作中遇到的问题抽象提取出来的.这点还挺有意思的.

接下来跟ceo吃饭，问了我些behaivor 问题，例如why thumbtack, what's ur passion等等, 我也问了些ceo的问题，聊的挺开心。  
第三轮: vp cultralfit， vp刚从gg 跳过来三个月，之前 是gg的senior director， 我们就聊了聊我现在的proj，遇到哪些问题我怎么解决的，然后聊了聊thumbtack的tech stack他们遇到什么问题之类，这轮聊的也挺开心。  
第四轮：coding， 两个面试官,一个主面一个感觉像是shallow, 比较有意思的是那个shallow的居然是HM. 主面官上来问了我很ML的问题，对我ML的proj很感兴趣, 后来居说这个面试官对ML一点不懂, 估计他就是纯粹感兴趣吧, 当然楼主我也ML的小学生,不知道他有没有懂我说的.  然后他让我写一个很简单的算法题,leetcode 中等偏下的难度. 我首先跟面试官司讨论了下题目的意思然后例了些examples,然后说了说解题的思路,面试官说思路是对的然后就让我写,写完后我解释了下我的代码,主面官说it works, 这个时候shallow的HM表示好像没怎么看懂, 我就稍微解释了下,然后他点了点头说make sense, 我当时其实并没有意识到这个shallow的原来是HM,我以为他是一个小兵,也就有些怠慢他没有进一步解释.然后就开始聊了聊他们工作的事情.

第五轮： sy[stem](http://www.1point3acres.com/%E7%BE%8E%E5%9B%BD%E5%9B%BD%E5%9C%9F%E5%AE%89%E5%85%A8%E9%83%A82012%E5%B9%B4%E5%BA%A6%E6%9B%B4%E6%96%B0stem%E4%B8%93%E4%B8%9A%E5%90%8D%E5%8D%95-%E7%9C%8B%E7%9C%8B%E4%BD%A0%E7%9A%84%E4%B8%93%E4%B8%9A/" \t "_blank) design, design一个跟twitter差不多的类型的app。这一轮可能是我面的最出彩的一轮，我先上最经典的3tier架构, 然后我自己不断的分析指出哪里会是瓶颈，如何优化，然后最后面试的小哥说我们thumbtack就是用这种模式，但是twitter可能会用更复杂点的架构，然后我们一起讨论，他也propose 了一些idea，我们一起探讨最后弄出了一个完整的他满意的design。  
面完system design就是安排 跟hr聊天。HR很nice的送了我些纪念品文化衫，带我去天台看了看风景，然后我被送出了公司。  
总结： thumbtack这家公司给我的感觉比较朝气蓬勃，人都很年轻，也很聪明，每个人都很nice，很有礼貌，我的所有面试中体验排第一。公司很土豪，刚融资了一个亿， office里全是27寸mac显示器。他们有一个chef在office做饭，很赞。公司ceo 很有趣，人也很nice。我个人比较喜欢thumbtack，而且比较看好他们的前景。我个人也觉得面的挺不错,有些开始期待offer了. 不过最终拿到了人生中最长的一封拒信,hr的feedback写的很详细也很真诚,大概意思是说很多人给了我strong,也有人给了no hire,他们debreif了好几次最终还是把我给拒了. 给我no hire的似乎有一个是hm,他的feedback是coding还行,但是comunication不好,所以给no hire. 我想可能是他那面我没有对他很认真的解释他没明白的地方吧.还是挺遗憾的,挺好的机会.

Uber:  
Uber是我一个学长帮我内推的，然后顺利 拿到codechallenge.... uber的codechallenge是我做的challenge中最复杂的，代码写的最多的，他们的要求也是最高的，感觉他们想招一些进去就能干 活的人。关于uber的code challenge的题目大家可以看这里：[https://github.com/uber/coding-c ...coding\_challenge.md](https://github.com/uber/coding-challenge-tools/blob/master/coding_challenge.md" \t "_blank) (这是uber发在github上public的题目). 我从中挑了一个题目,花了3个晚上实现了从前端到后台的所有代码，并且host到了amz aws上。当我提交完code challenge后顺利拿到onsite邀请。. visit 1point3acres.com for more.  
onsite：   
uber的onsite是安排在thumbtack的onsite的后一天，可能由于经历了前一天的thumbtack的洗礼和身体对西部时间的适应，uber onsite面的感觉还不错。uber总共面了三轮技术，一轮cultral fit.  
这里不得不说start up 的面试真的是别拒一格，我在面试前刷了好多glassdoor上的uber的面经，结果我只有一轮面到算法，而且都不在面经上，感觉面的很随意。  
第一轮： 一个本科刚毕业的中国妹子和一个abc男面，这个中国妹子13年曾在我司实习过LOL. 这一轮没写题，就是问我现在的proj，然后做了好多讨论，proj的framework是什么样子，然后问我遇到各种各样的问题怎么办，因为现在的proj是我自己一手设计加实现的，所以非常清楚，基本对答如流。但是不得不说这个abc面试官问的问题确实有水平， 几乎每个问题都是我之前遇到的challenge。我们就这么讨论了一个小时，我自己觉得面的还不错。  
第二轮： 两个人面我算法，要在电脑 上写code。题目大概是说一些公用的api在免费使用时都会有限制， 假设googlemap api有个限制每秒只能最多10次request，让我写一个wrapper function， 在这个wrapperfunction里调用3rdparty api,然后这个wrapperfunction 检测现如果过去1s内超出10次request就return false, otherwise return true. 这题第一感觉 就是用circulararray.然后我说我觉得用circulararray记录每次request的time stamp，然后对方表示是在right path上，但是我卡了好一会儿不知道如何下手，面试官问我遇到什么问题，我说我在想怎么实现一个circluar array先，然后怎么维护状态之类的，然后我在白板上画了些digram告诉面试官我的思路，面试官很nice的给了些hint，然后后来面试官帮我一起google java里有没有native的circular array，最后 我说算了，我就用queue来写吧，面试官表示good idea.然后三下五除二码好了代码，不过时间不够了没有run，直接walk through了一下就让我问问题了。 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.   
第三轮：一个漂亮国人妹纸加一个白男。 systemdeisgn，给两个题目，让我选一个，一个是designnetflix另一个是design uber, 我就直接选 了designuber。我跟面thumbtack一样先用了最经典 的3tier 架构大法，然后一点一点改进。. 鍥磋鎴戜滑@1point 3 acres  
system design问的很细，问mobile app怎么跟backend通信，问通信是哪些protocal， 传输的信息是什么，哪里加cache，distributed db怎么弄之类。基本我答的还算顺利。感觉面试官挺满意这轮的。  
第四轮： 一个很漂亮很有气质 的中国大姐姐的 cultrual fit面试，内推我的学长说她是hm. 果然能做到manager的都非等闲之辈，这个姐姐气场相当强大， 而且不苟言笑，感觉很push,给我压力很大。她让我说了下我现在的proj，具体问了proj怎么设计的，为什么，有哪些可以值得改进的。然后问些behavior，比如你之前 有没有projfail过，为什么之类的。最后问了我whyuber, where's ur passion之类的。  
随后跟 hr简单的聊了聊便送我离开公司。  
总结 ： 我是在uber的新office面的，里面装修的很精简，office是完全 open 的，而且也是清一色的27寸mac显示器加macbookpro(真有钱)。 uber给的感觉节奏特别快，面试官很聪明，也很nice. uber可能最近 在大量招人，hr回信特别慢，有种你爱来不来的感觉。 面完Uber后我跟内推我的学长说了说面试的情况, 学长表示感觉会有offer, 结果事与愿违,再等了好几天后还是收到了拒信. 我给HR发信要feedback, 无果,只能期望学长下次去SF office的时候帮我问问面试官了. QAQ

. Waral 鍗氬鏈夋洿澶氭枃绔�,

这两家面试的自我感觉都还不错, 题目都写出来了,聊天也聊的很开心,但是都被拒了,只能说现在hot start up 真的很难进, 尤其是对非flg的码工来说. 这两家面完后短期内也不准备面了, 等年底再试试这两家吧. Bless~~

第一轮  
面试官是一个华裔abc， 人很nice。  
题目是anagram的变种，就是给一个dictionary， 再输入一个word， 让我写个function去找dictionary里面是否有这个word的anagram。  
  
我先是想到了LC的anagram，就说把每个dictionary 里面的sort 一下然后存个hashmap。她说行，开始编程。完事后面试官让我试不同的testcase，问复杂度并且，我说O（nklgk）. 她问能不能更efficent一点。我说用个对每个dictionary的word建立一个int array，然后统计每个char的出现次数 这样应该是O(nk)。她问有没有别的方法，我就说可以不用array, 用hashmap 统计（我实在想不到别的办法了）。面试官又问用矩阵和hashmap的区别和各自优缺点。等面试结束后，我想到应该compress成a1b2c3这种，然后用compress后的string作hashmap的key，不过为时已晚。总体上说面试官人很nice，也没为难我，经常给提示。  
3个小时后收到HR来信，加面一轮  
  
  
第二轮. 1point 3acres 璁哄潧  
第二轮是个国人小哥，非常照顾我。照例先自我介绍，过简历。然后开始问问题。先问了几个基础题目，我答得不太好（惭愧），有两个是问machine learning的一些基本概念。还有一道database和一个javascript的概念题，我都没答上来，javascript真是全还给老师了，今天过后要赶紧捡起来。  
然后考了一道LC原题，search in rotated array。 由于前面基本概念不太好，写题的时候比较紧张，说话磕磕巴巴，好在以前做过。试test case的时候还出现了一个小bug，经提醒下改正。  
本来觉得表现不太好，没想到一小时后接到 on site通知。看来是国人小哥帮忙给了通过，好人一生平安。  
  
  
希望有米的同学能给点米。

现在都恨不得打死自己。。。两个面试官都是国人大哥，出这么简单的题目，自己居然. 鍥磋鎴戜滑@1point 3 acres  
还发挥失常。。。哎. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
昨天去一个小公司onsite折腾，被鄙视2小时就给赶回来了，郁闷了一晚上，没睡好脑. 鍥磋鎴戜滑@1point 3 acres  
子僵住了，早上uber电面，居然，自己太不争气了，好不容易争取到的店面机会。  
mirror tree， uber电面是要compile的，不像其他的，写写算法就行，之前没意识到,  
犯了个巨傻的错误，忘记更新pointer了，debug了5分钟才搞出来，哎  
design，shortened url， 明明昨天onsite就被这题虐了一边，自己明明昨晚还看了，  
还来这里问了，可是因为自己没理解，反正把能想出来的都说了，答的还是不好，郁闷。。。  
~~~~~~~~~~~~~~~~~.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�

刚刚面完二面，发面经攒人品  
一面  
烙印面的，同Word Ladder ii  
由于一直没写过，看到我就疯了，磕磕碰碰写了个大概，烙印估计也看出来我没写过，但是思路对，就加面了一次. Waral 鍗氬鏈夋洿澶氭枃绔�,  
  
  
二面 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.   
1 Anagram 需要自己写很多test case  
2 实现google搜索的自动补全，以及备选短语的ranking，我用trie做的

刚刚结束Uber电面，是一个亚裔小哥面的，非常nice（本来应该是上周，结果被另一个engineer放了鸽子，于是重新安排一个engineer给我电面）。  
  
1，background  
2，project  
3，coding problem. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴  
给一个String array，找出每个元素的Anagram，按照相同的anagram分为一组，最后输出每一组元素。  
我用了HashMap<String, ArrayList<String>>来做的，在计算key的时候，需要按字母顺序sort String作为key，  
于是follow up就是怎么不用sort，于是我就说可以把每一个string统计一下a,b,c。。。的频率，然后输出一个pattern a1b3c4。. 1point3acres.com/bbs  
把这个pattern作为map的key。  
  
4，问当你用browser打开[www.uber.com](http://www.uber.com/" \t "_blank)的时候，发生了生么。我就用http请求，到dns，到server，再返回，浏览器render之类的讲了一下

印度人先问了简历，project，大概有20分钟吧，然后coding  
. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
题目是原题subsets .1point3acres缃�  
follow up问题是有duplicates怎么办 （subsets II原题）  
  
最后问他问题

刚刚面完U家， 对方是一狂跳槽的美国小哥（基本一年多一跳）。。。  
一开始小哥就介绍了一下他在growth team的职能，前端，Python， JavaScript，etc。但是我说我稀饭backEnd的哦... 好吧，那就问问简历里面的内容吧，说说里面有哪些你是接触过front end的...又把我绕到前端去 =.=... 说了一通之后他说okok，那我试试你的backend功底吧~  
有一个已经实现好了的API，只要输入一个站名，就可以输出来此站的所有公交线路的信息。问你设计一个interface，输出最近要来的公交车的下一站。  
然后慢慢问问题，逐渐把问题缩小成为找离现在时间点最近的下一个公交到站时间点。  
继续问问题，把API的输出理解为已经按时间点排好序，OK，典型的find element in sorted array。提供两种解法，duang duang duang写出来~  
最后向他提问题，具体了解了一下他们家的流程。  
  
虽说已经有一个小offer但是还是挺想去U家的呀亲！希望有好结果~  
  
大家加油加油！！！http://www.1point3acres.com/bbs/static/image/smiley/YouXiHouboy/61.GIF. Waral 鍗氬鏈夋洿澶氭枃绔�,  
  
  
**补充内容 (2015-4-22 07:30):**  
半小时后收到Onsite通知

<http://www.1point3acres.com/bbs/thread-132216-1-1.html>

Uber电话面试 职位是Software Engineer - Data Engineering. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴  
. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
一开始自我介绍 讲讲resume上的东西. more info on 1point3acres.com  
. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴  
然后问了一个reverse String 主要看看我会不会写代码 （其实我写错了没有reverse 我改的时候他才发现错了）  
  
然后问怎样在HTML去除电话号码 不用写代码  
  
然后是print tree in level order 比如：  
      1  
     /  \  
    2    3. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
   / \     \  
4   5     6. 1point 3acres 璁哄潧  
print out as: 1 2 3 4 5 6. more info on 1point3acres.com  
我用的queue实现的  
  
最后是一个设计题 有directory, file, permission 问怎么OO design..  
Create a class design (OO) to model a FileSy[stem](http://www.1point3acres.com/%E7%BE%8E%E5%9B%BD%E5%9B%BD%E5%9C%9F%E5%AE%89%E5%85%A8%E9%83%A82012%E5%B9%B4%E5%BA%A6%E6%9B%B4%E6%96%B0stem%E4%B8%93%E4%B8%9A%E5%90%8D%E5%8D%95-%E7%9C%8B%E7%9C%8B%E4%BD%A0%E7%9A%84%E4%B8%93%E4%B8%9A/" \t "_blank)  
    Directory, File, Permissions, etc

1.介绍自己所在组是干嘛的

2.讲讲自己做的项目

3.leetcode原题，没做到。。

[https://oj.leetcode.com/problems/letter-combinations-of-a-phone-number/](https://oj.leetcode.com/problems/letter-combinations-of-a-phone-number/" \t "_blank)

4.问还有啥问题  
  
  
还是准备不充分，太可惜了。  
给的codepad是可以调试的，写的时候不知道，结果一运行，一堆奇葩错误，我都不好意思了 囧。。  
然后改代码改了半天，才把错误都改掉。。  
回家赶紧[刷题](http://www.1point3acres.com/bbs/forum-84-1.html" \t "_blank)去。。

先谈了简历project，大概15分钟，然后发了个coderpad的连接做题。  
  
1. 给定一个string，判断能否用这个string来组成一个palindrome。e.g. 'uber' --> False, 'aab' --> True, 'carecra' --> True  
  
2. Follow up: 给出所有能够组成的palindrome，因为时间原因可以不用担心duplicates。（potential follow up就是去重了）-google 1point3acres  
  
白人小哥很nice，第二题就是permutation，自己思路对了，但因为时间问题也没让写。剩下几分钟问问题，他刚入职6个月，所在team从入职时15人到现在56人。。。  
. visit 1point3acres.com for more.  
  
  
**补充内容 (2015-1-20 20:37):**  
新农回复次数都有限制，求米啊

growth组，白人小哥  
. 1point 3acres 璁哄潧  
小哥晚了10多分钟，开始聊了聊简历，最近的project，challenge part 。。。.鏈枃鍘熷垱鑷�1point3acres璁哄潧  
. 1point3acres.com/bbs  
然后做题，用coderpad  
只有一道，电话combination那道，算法很熟悉了，dfs，不过好长时间没做，边think aloud 边码，还算顺利  
让自己弄几个test case 跑跑，但没有一次bug free，忘了考虑0，1的case ＝＝还有关于unsigned int 的warning  
接着聊了聊怎么 code review，加一些comments啊什么的  
  
以为还会有第二题，没想到小哥就让问问题了（可能因为开始的晚，中间还掉了一次）聊了聊uber的前景啊，growth组的职能啊， 主要工作与挑战啦，lz觉得自己聊的还挺嗨的，表达了自己的热情，没想到还是挂了。。。  
  
分析可能是这种题应该秒的，但是自己没做到bug free， 还有什么变量名不一致的白痴bug，改了function signiture忘了把所有的调用的地方都改了就着急run。。。

语文不好，大家见谅~ - -！之前uber在我们学校校园招聘。  
先说下校园招聘面试：  
半个小时，一个刚毕业的校友面的：  
先介绍下项目，最好是说一些和uber有关的。因为LZ之前正好做过一个地图位置修正的东西，所以讲的很high。~  
然后一个设计题，也是非常基础。. Waral 鍗氬鏈夋洿澶氭枃绔�,  
就是一个chess game，写出需要哪些类，实现哪些方法，说清楚就行了。  
最后就是问那人还有些啥问题。  
  
在我认识的同学里面，加上我一共4个人过了这轮面试~  
然后就收到了电面通知，其他3个同学已经都面好了，LZ周五面，分享下那3个同学的面经攒攒人品嘿嘿。.1point3acres缃�  
时间在45分钟-60分钟不等，面试前会告诉你面试官的名字，可以去linkedin搜搜神马的。  
基本流程都是先介绍项目，这部分据说都谈得挺多的，会问很多细节啥的。面试官对这个还挺care。. 1point 3acres 璁哄潧  
然后就是做题。题目简直太奇怪了 = = 下面再谈  
最后就是问还有些啥问题。  
  
下面说做题。  
首先虽然uber只用python和node.js，但是做题用啥语言都可以~  
然后在电面注册的时候有4个方向可以选：back-end, front-end, growth team, mobile team  
可是实际感觉面试的题目和这个一点关系也没有。。。  
同学1，不知道选了啥方向，面的是max depth of binary tree  
同学2，只选了mobile team，面的是roman to integer，她第一次木有写出最优解，被面试官提醒了下~  
同学3，只选了back-end，面的是设计一个电梯类，然后实现电梯里面的各种功能，囧我觉得这个好难，大家有没有什么思路啊~~~！因为这个是个印度同学我没有问的太清楚 o(╯□╰)o

我做的是， 实现一个方法，比如 sqrt(100)  返回10,1  sqrt(300） 返回 10，3 sqrt（8） 返回2，2  
我做出来了，还是给我拒了。。。  
  
祝你好运啊！

面的是一道求平均数的题目，设计aggregator....没答好，不scalable，目测跪了

lz非大神..无acm经验.非geek.没事不会写代码，本科也学的cs。学校的位置在遥远的东部某村，9个月的项目…career fair就不谈了.一共只来了十几家公司.大公司就来了Google, Oracle,dropbox和M...经过大半年的diy[找工](http://tinyurl.com/lwszxst" \t "_blank)，终于定下去facebook，在此分享下找工的经验，给需要的同学参考..先汇报下结果:

Offer: Facebook(从),Google,Snapchat,Uber,Indeed,Liveramp,Oracle,Akuna Capital, Epic

Onsite reject: Jump Trading, Quora, Airbnb

Phone reject: Linkedin, Palantir, Adepar, dropbox

Withdraw: Goldman sachs, PureStorage, Amazon, Yelp, Zillow

一年的项目相比起两年或是一年半的项目在找工作方面还是有比较大的劣势，因为没有一个暑假可以用来实习，而且找工作的时间也比较尴尬。找的早了，一是简历比较奇怪，人家会感觉你怎么刚开始在美帝读书就找工作了，二是适应语言和国外的学习节奏本来就需要一些时间。但找的迟了，position就比较少了，拿面试比较困难而且hiring bar感觉也会提高。lz是属于找的比较迟的类型，下面是大致的时间表

. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴

10-12月  开始意识到要找工作了..开始做leetcode，投简历..先从不想去的公司练手，面了akuna capital和epic，都拿了offer，失误的很早面了dropbox，结果面了4轮还是挂了。之后痛定思痛，拿了quora和uber的onsite，也投了大公司。这期间主要的精力还是在课业上，因为lz个人觉得为了找工作把课业落下了是非常不值得的。

1月  第一周面了十几个电面，第二周开始基本上就全是onsite。由于学校在东部村里，到纽约机场就要将近2小时，飞到sf还要6小时，一行非常折腾，所以特地把onsite基本都放在了一起。尤其是第三周，一天一个onsite，强度非常大。第四周面完回校上课，结束找工作。

然后说说一些失败的教训(成功大都只是运气，失败却一定是有原因的)：

1. 1. linkedin和twitter应该早点投比较好，尽量11月中旬以前。我投linkedin的时候，hr打电话和我聊，说基本上infra已经没有position了，越早面越好..面的也挺非主流的..挂的也莫名其妙..有种被打发了的感觉..twitter也是没有position了..现在大公司position满的越来越快了，早投还是有一定优势
2. 2. 面试还是比较有状态的...刚过完圣诞假期第一天面了Adepar和palantir...话都说不全..完全不知道怎么面..因此如果有重要的面试，最好还是先放一个其他面试在前面练一练
3. 3. onsite尽量还是不要一天一个..最好是两天或是三天一个..Airbnb是倒数第二个onsite...已经累的不行了..面试那天有一道修改代码的题没做好，原因是做那题时天旋地转..电脑屏幕看不清..脑子也完全转不动…估计是疲劳过度了。
4. 4. 准备好了再开始面心仪的公司..当时lz抱着侥幸心理面dropbox，希望早点面如果有offer就可以结束找工作了。题也没怎么刷，面经也没看..后来发现dropbox4轮面试基本都是面经上或leetcode类似题..稍微准备下不至于电面就挂了..
5. 5. quora是真被虐了..有一道改feature的题..lz没做过网页完全不懂应该找哪里.尽管两位哥们拼命提示还是没有找到。想去quora的同学最好能熟悉下web开发..

. From 1point 3acres bbs

投简历：

大约一半是找学长或是认识的人内推的(在此非常感谢各位学长的给力支持，答疑解惑..太nice了)，另一半是网申的..内推成功率相对较高，不过网申也还可以，一般就是比较慢一些..当然也有被cousera直接秒杀的经历...

.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�

面试难度及公司：

software engineer岗，难度感觉区别不大，可能startup稍微难一些，一定要排个序的话是

Quora = Airbnb = Uber = Snapchat > Facebook >  Indeed = Liveramp = Google > Oracle = Akuna Capital > Epic

这里只包含了我onsite过的..Jump Trading面的是trader岗，面试还是很有意思的，难度也大，比较challenging。面试包含算法,概率和代数。由于代数已经基本忘光了，在该类题上败下阵来。来年再去试试。

一圈参观下来，公司印象比较深刻的是airbnb，环境不错，气氛也好，好多人带狗狗。uber环境有些压抑，但整体氛围不错..Snapchat旁边就是阳光沙滩..就是感觉在的那一带似乎破破的。

准备:

leetcode一共做了两遍，然后就是在面试的时候上glassdoor或是一亩三分地上看看面经，感受一下..leetcode感觉刚开始做收获非常大，但做完1/3的题目后就有种不断重复的感觉，毕竟思想就那么一些..题目换来换去但其实本质没变..第二次做是在1月份大规模开始面试前，为了练练熟，加快码的速度。面试的时候碰到leetcode的题不多，碰到就挂了..比如palantir的lru,比如droopbox的combinational sum..不知道为什么..面经还是要看的，可以大致感受一下面试的难度..然后就是说简历了..只要语言过关，相信自己做过的project侃侃而谈应该还是没有问题的..

面试:

主要讲思路，这个太重要了..个人感觉题目做得出来做不出来并不是非常重要，一步步让面试官感觉你解决问题的思路很发散也很reasonable是关键…Anyway，我面试的时候，一般先讲各种思路，然后分析这个思路的pros and cons。如果面试官觉得ok，我再开始写代码。关于最优解的问题，如果想出来了就直接上最优解吧，不必浪费大家的时间，先说个brute force的方法…没有人会因为觉得你思路快把你挂掉的。

以上做好之后，面试还有一个很重要的因素就是运气了。不过这是我们没有办法控制的..所以解决办法就是多投一些吧！

offer选择:

只在Uber, Snapchat, Facebook, Google之间犹豫过…当初一心想去startup,感觉bar比较高，所以进去的人应该也比较牛，可以make impact..后来面试过来发现其实没差多少。而且感觉startup给new grad的package有点mean，和senior差距比较大，他们更喜欢能直接来干活的，所以感觉作为一个senior加入会更好。还有就是work-life balance，人脉以及学习的机会。作为毕业后的第一份工作，还是觉得玩的开心最重要。snapchat在la，不利于认识小伙伴，uber钱太少，最后都忍痛放弃了，毕竟世界上最好的startup只有自己开的那家。

google和facebook的话差不多…package也差不多，google可能稍微高一些。但作为一个短期计划差别不大..选facebook的话主要是因为整个团队更年轻，大家应该更有话题聊，然后技术上还是和google差距很大(这是他们vp说的= =)，还有些可以做的东西。最后的关键因素就是，和hr聊的比较开心。最后给了75k的signon，也比较有诚意，毕竟我连美国的实习都没有，还是比较满意的。

总之就是选最适合自己的。

最后附一些干货，碰到的一些面试题。由于签了nda，就不发面经了:

1. 1.   implement git merge

2.   实现一个数据结构。比较像linkedlist，但是每个node是一个5个cell的array. 让实现get和insert。insert有很多的improvement可以做

3.   list<Iterator>，iterator是一个sorted list的iterator，可能有duplicate...然后给一个k，让你按顺序输出一些元素，which appears at least in k sorted lists

4.   一个图，里面有好几个detector，detector有各自的探查范围，给两个点，确认是否存在path能绕过detector连通这两个点.

5.   写代码实现给一个n，给出对应的hilbert curve的坐标，可以用recursive的方法做…旋转有点麻烦…

6.   Implement deadlock

7.   print tree by level. what if the tree is very large

**如果有什么问题，欢迎大家加好友...请不要发短消息,之前有童鞋发短消息，我没有米回复..实在抱歉..然后欢迎同样去facebook的同学联系我！可以合租什么的～**

最后祝大家找工顺利。

|  |
| --- |
| Uber 电面首先非主流地告诉你面试官名字 虽然没有linkedin 但起码知道了是个印度妹子 . 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷 然后非主流地不先提供collaborative editor链接 面试官现场发 .鏈枃鍘熷垱鑷�1point3acres璁哄潧 然后虽然是面swe 印度妹子竟然是data scientist 问了至少20分钟project 聊得很high   然后出了一道LeetCode Maximum Subarray 非常尴尬 已经极力拖慢速度了 还是不到5分钟写完+解释 印度妹子然后让改改程序改成返回这个数组instead of 返回Sum值. visit 1point3acres.com for more. . 鍥磋鎴戜滑@1point 3 acres 然后问了问知不知道trie 然后描述一下 比如google 搜索提示词的时候是大概怎么实现的  运气太好碰到水题 印度妹子原来也这么温柔  一小时后给了onsite hr又非主流地表示机票酒店你自己订 完了报销   **补充内容 (2015-1-26 15:03):** 电面前邮件告知面试官名字 |

本人上周五面的onsite，昨天发邮件说今天打电话聊的。decision的效率很高。我发现怎么uber的面经少的可怜啊。？  
  
中午到了公司，首先10分钟寒暄带着参观了一下，挺大的，而且有食堂，可以吃三餐。  
当时面我的组是android组，可能算法就面的不是很难吧。  
第一轮，2 on 1，白板写valid sudoku，lc原题，lz紧张了一下，仔细test，结果怎么查怎么对，面试官也不出声。。还以为有bug，结果果然是bug free。面试官满意之后，仔细讨论这段代码在memory中的变化，在for循环之外和之内建立对象在底层的区别，和被大量调用时时间的区别。然后考android的listview的design。其中设计10gb的item如果想显示在特定屏幕的view上面，底层怎么优化，因为太大没办法一下load在memory里。然后考了object pool。然后还考了一些细节的概念和处理，记不太清楚了，总之被问了很多。然后提问题，临走时表示很满意，后几轮加油。  
第二轮，1 on 1， 用电脑coding，本以为eclipse，没想到却是hacker啥的一个网页编译器，用java。题目还是一道valid sudoku，lz上一轮做过，所以瞬间写完，但要求各种unit test，大概折腾了20多分钟后，就开始跟我讨论android应用的design，问我一些app的设计思路，感觉就是考design pattern，然后我还把我之前的android app跟他说了下，结果要看我代码，然后我就跟他demo一下app，说了些我当时app的优缺点。然后时间到了。很满意的走了。  
第三轮，2 on 1，上来先自我介绍。然后又是白板coding，考了2道题，但许许多多的follow up。第一题自己写一个hashtable。分别实现open addressing和separate chaining，大概讲讲加上伪代码就行。hashfunction怎么实现，string的hashcode怎么实现的。等等follow up我现在都不记得了，还问了好多细节。然后问如果我想记录insert的顺序怎么办，怎么设计这个hashtable。然后又问了链表的删除等细节的问题，双链表啊单链表啊。。。面试官俩人都很满意。lz掌握细节还可以，所以都是秒答，秒写代码，所以到这时间还有15分钟左右吧，然后又出了一道design的题，竟然还要写代码的。题目就是类似google搜索引擎里面输入时候，关于你输入开头的所有内容在你的搜索记录里的要都显示在下面。例如：你输入u，会显示uber, unique, unbelieve。你输入ub时候只会显示uber了。我先说了用hashmap，然后自己分析了一下tradeoff，因为太占空间了嘛，然后又想了想，我就说可以用trie tree，面试官此时表现的很兴奋，然后让我说说trie的思路。我当时就感觉是不是从来没有面试者回答过trie的方法啊。。。不至于啊。。。然后就只让我实现search部分的代码。我用的hashmap，写个类就好了。不难。然后俩人很满意，说very good job。然后又问我why uber。然后让我问问题了。  
第四轮，1 on 1 manager轮，linkedin过来的，这轮出乎意料没有写一行代码，纯聊天，和设计思路。因为lz两年前有创业经历，所以主要聊当时我们的app的设计思路，tradeoff和改进地方之类的。然后就让我demo我在研究生期间上课做的那个app，说design pattern和算法，因为里面涉及machine learning的部分。然后我跟他说了些uber不足的地方，看起来他很有兴趣，然后问我我觉得如果改进，说完他貌似比较满意。然后就聊些有的没的。.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�  
最后一轮，hr，寒暄了一下就把我送走了。刚出门看邮箱，收到了amazon的offer了，当时觉得终于自己的未来能有点着落了。。。  
  
最后祝大家拿到心仪的offer！也为我之后面更好的公司攒攒人品！加油！

我LD最近面了一堆公司，下面发她的面经攒人品求[大米](http://www.1point3acres.com/bbs/forum.php?mod=collection&action=view&ctid=5&fromop=all" \t "_blank)。  
基本都是电面和onsite混着发的。  
  
Google:  
1. Wildcard match 鏉ユ簮涓€浜�.涓夊垎鍦拌鍧�.   
2. [http://www.fgdsb.com/2015/01/25/peek-iterator/](http://www.fgdsb.com/2015/01/25/peek-iterator/" \t "_blank)类似。写一个de duplicator,wrap 几个stream，输出的stream全是不重复数字。  
3. 求一个stream，出现次数最多的数字。然后扩展到N个machine的情况。. 1point3acres.com/bbs  
4. 假设某个company在不同国家都有office，每个国家的office，如果是当地的假期，就可以放假了。假设可以查询任意航班的信息，每个星期只能呆在一个地方，只有周末的时候才能飞去别的国家。找一个放假天数最多的schedule。  
5. LRU + 一些 C++问题。. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴  
6. 这题记不大清楚了。好像是Longest increasing consecutive sequence， 然后一个Tree的该进版。求longest increasing consecutive path。. from: 1point3acres.com/bbs   
7. 设计file sy[stem](http://www.1point3acres.com/%E7%BE%8E%E5%9B%BD%E5%9B%BD%E5%9C%9F%E5%AE%89%E5%85%A8%E9%83%A82012%E5%B9%B4%E5%BA%A6%E6%9B%B4%E6%96%B0stem%E4%B8%93%E4%B8%9A%E5%90%8D%E5%8D%95-%E7%9C%8B%E7%9C%8B%E4%BD%A0%E7%9A%84%E4%B8%93%E4%B8%9A/" \t "_blank)。我就是按照map reduce， hash那一套答得。  
  
-------------------------.鏈枃鍘熷垱鑷�1point3acres璁哄潧  
  
Facebook：  
因为签offer了，就不说太详细了。基本都是常见题甚至LC原题。但是follow up问的很多，基本上常见题能用多种方法做的都会全问你一遍。比如问了一题count and say，老掉牙的题了，写出代码还让证明any count不会超过三。比如1 11 21所有的digit都不大于3。  
  
-------------------------  
  
Machine Zone：  
1. sort color。. 1point3acres.com/bbs  
2. 有两个设计api的题目，具体的忘记了，都不难就对了。  
3. 有两轮纯写query。问了些perfomance的问题，主要就是index的原理。写个几个很长的query，一个一黑板那种变态的。  
4. 一个leetcode medium的dp问题。  
5. linkedin word distance 那题  
/\* This class will be given a list of words (such as might be tokenized  
\* from a paragraph of text), and will provide a method that takes two  
\* words and returns the shortest distance (in words) between those two. From 1point 3acres bbs  
\* words in the provided text.  
\* Example:  
\*   WordDistanceFinder finder = new WordDistanceFinder(Arrays.asList("the", "quick", "brown", "fox", "quick"));  
\*   assert(finder.distance("fox","the") == 3);  
\*   assert(finder.distance("quick", "fox") == 1);. visit 1point3acres.com for more.  
\*/  
. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
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. Waral 鍗氬鏈夋洿澶氭枃绔�,  
Pure Storage：  
一模一样的题目！！   
[http://www.mitbbs.com/article\_t/JobHunting/32702941.html](http://www.mitbbs.com/article_t/JobHunting/32702941.html" \t "_blank)  
多了一道，设计c++ virtual mechanism的design。虽然看过一点，知道的不多。但是会逐渐给提示，follow hint就可以。pure storage喜欢一个题用好几种方法解，每个题目都让不断的优化优化。  
  
-------------------------  
  
Uber：  
1. regex match  
2. 实现trie. 鍥磋鎴戜滑@1point 3 acres  
3. youtube architecture设计。  
4. 聊天。  
5. min stack  
  
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Palantir：  
1. 判断任意长度K的substr有木有重复.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�  
2. LRU  
3. 有个grid，每个cell记录的是click的次数，0或者大于0。求点击次数最多的region。每个region的定义，是非零连续的一片。  
4. 设计asteroid 游戏。. 1point3acres.com/bbs  
5. 实现一个纸牌游戏的logic。每人拿出最上面那张，比较大小，最大的胜出，winner可以搜刮走loser打出的牌。如果有俩人的牌一样大，就比较上面数第四章的牌。  直到某个人赢得了所有的牌  
6. system design。distributed hash table  
7. stock price。  
                5/6      5/7   5/8  
Stock1 :  100               200  
Stock2:               50     100   
Stock3:   150      200  
Output:    250     350    500. 1point 3acres 璁哄潧  
空格代表价格没变化，跟前一天一样。如果第一天的为空，价格为0  
. 1point 3acres 璁哄潧  
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ServiceNow：  
1.各种概念啊！！ Javascript， Angular.js, SQL  
2. 发过来code，让改bug优化。. 鍥磋鎴戜滑@1point 3 acres  
3.又是各种概念啊。Javascript， Angular.js, SQL。还有自己project的介绍. from: 1point3acres.com/bbs   
  
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BigCommerce：  
1. 聊天3轮。聊project。我的project，他们的project.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�  
2. leetcode上absolute path那题。-google 1point3acres  
3. 有一轮，算是system design吧。让设计他们的payment系统。  
  
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Amazon：.鏈枃鍘熷垱鑷�1point3acres璁哄潧  
1. 竟然安排我面试QA。理所当然的挂了。问了一道很简单的hashtable的题目，然后问我怎么测试amazon web page。。  
2. 概念：hashtable 实现方式。. 1point 3acres 璁哄潧  
代码： 拓扑排序。  
还写了个电话号码的regex expression。  
  
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Linkedin：  
1. Word distance. 鐣欏鐢宠璁哄潧-涓€浜╀笁鍒嗗湴  
2. 2 sum  
3.    
/\*\*  
\* Given a nested list of integers, returns the sum of all integers in the list weighted by their depth  
\* For example, given the list {{1,1},2,{1,1}} the function should return 10 (four 1's at depth 2, one 2 at depth 1)  
\* Given the list {1,{4,{6}}} the function should return 27 (one 1 at depth 1, one 4 at depth 2, and one 6 at depth 3)  
\*/  
4. permutation   
5. reverse word in string (in place)  
6. system design 类似这个  
[http://www.shuatiblog.com/blog/2 ... ta-real-time-top-k/](http://www.shuatiblog.com/blog/2015/01/09/big-data-real-time-top-k/" \t "_blank)  
7. 问project。把我问跪了。他们问的非常非常详细。我只准备了architecture，明显不够用。一些具体logic也得准备。  
8. minimum window substring  
9. sqrt int + double版.鐣欏璁哄潧-涓€浜�-涓夊垎鍦�  
  
-------------------------. 1point3acres.com/bbs  
. 1point 3acres 璁哄潧  
Yelp：  
1. Word ladder 2  
2. 密码的combination。 phone number combination变体. 1point3acres.com/bbs  
3. 拓扑排序：一堆package，有dependency。求个安装顺序  
4. permutation + combination合体，具体的太久忘记了，反正不难。. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴  
5. valid json。判断string是不是valid json object  
跟版上很多人一样，题都不难，自我感觉良好。最后悲剧。  
-google 1point3acres  
  
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Offers: G,F,Machine Zone,Service Now, BigCommerce。已签F。. more info on 1point3acres.com  
. Waral 鍗氬鏈夋洿澶氭枃绔�,  
准备的话，就是以leetcode为主，我协助她[找工](http://tinyurl.com/lwszxst" \t "_blank)作帮她做了一些事情，大家觉得有用也可以看看：. 1point 3acres 璁哄潧  
  
1. 博客：[http://www.fgdsb.com](http://www.fgdsb.com/" \t "_blank)  
这里面收集了不少leetcode没有的但是近期比较高频的面经题，我也提供了一些参考解法。  
当然有几个题已经有热心观众指出错误了，但是由于我最近课比较多还没有改。。大牛请绕道。  
  
2. 本地[刷题](http://www.1point3acres.com/bbs/forum-84-1.html" \t "_blank)平台：[https://github.com/wangyanxing/Judge-at-fgdsb](https://github.com/wangyanxing/Judge-at-fgdsb" \t "_blank). 鍥磋鎴戜滑@1point 3 acres  
现在支持mac和windows（windows启动速度比较慢）系统。类似于leetcode的本地版，收集我博客里面大约40道比较常见的且LC没有的题并提供了测试案例和Judge功能。现  
在支持C++/Java/Python/Lua/Ruby语言，当然你本地要有能运行的compiler。  
现在还不是特别完善，但是已经完全可以用了，我还加了print功能，这个调试起来比lc方便。有空我会把二叉树的visualization做了，相信大家对LC的 12##3#4 这种二叉  
树表示方法不爽很久了哈哈。. visit 1point3acres.com for more.  
release链接在这里：[https://github.com/wangyanxing/Judge-at-fgdsb/releases](https://github.com/wangyanxing/Judge-at-fgdsb/releases" \t "_blank)  
  
  
  
. visit 1point3acres.com for more.  
**补充内容 (2015-4-14 12:53):**  
Google file system 设计那题可以能描述的不够清楚。就是设计一个大数据的存取问题。存在disk上。我就是partition + hash + cache那一套糊弄过去了。  
  
Palantir第一题：判断长度为K的substr有木有重复的字符。

先是on campus投了简历聊了一下，很快安排面试了。感觉还算顺利，没想到一轮就挂了。 . 1point 3acres 璁哄潧  
  
这次面试聊简历的比重很大，一共45min的时间里，前25min在聊经历，聊项目。面试官是个以前是civil eng专业的，搞交通之类的，publication都是些交通网络设计的。现在在uber搞surge pricing, 算是model那一类的东西。  
. 1point3acres.com/bbs  
聊了一会他自己的现在的工作，然后问了下有意思的课，以前项目大致是做什么的，challenge在什么地方。   
  
然后上了一个题，二叉树的最大深度。。 easy得不行了。。 还讨论了一会，他说不急着做题，先讨论一下思路啥的，我写了recursion的，最后描述了一下层序遍历的。. 1point 3acres 璁哄潧  
  
最后还是fail掉了。  
  
总结一下。我感觉可能描述项目的时候没有能convince面试官项目的难点在哪里，我是backend方向，简单几句描述可能没有让面试官完全了解。对比之下，on campus那一次聊项目的效果比较好。当然只是猜测，有可能就是因为candidate太多了，刷掉了而已。   
.鏈枃鍘熷垱鑷�1point3acres璁哄潧  
Move on了。

题目就是flatten json to a list of map, 有一段json，比如说如下：  
{  
  "uuid": "abc",  
  "properties": {  
    "sessionName": "Test session name",  
    "waypoints": [  
      {"uuid": "def", "properties": {"latitude": 3}}  
    ]  
  }  
}  
  
  
把它转化成List<Map<String, Object>>， map里面uuid是key, properties是value。 所以结果应该像下面  
  
[  
  
  {"uuid": "abc", "properties": {"sessionName": "Test session name", "waypoints": ["def"]}},  
  
  {"uuid": "def", "properties": {"latitude": 3}},  
. 鐗涗汉浜戦泦,涓€浜╀笁鍒嗗湴  
  ...  
  
]. 涓€浜�-涓夊垎-鍦帮紝鐙鍙戝竷  
  
  
其实就是考递归，但是处理json的时候要看清楚结构，我电脑一上下拉就花屏。。。最后没有看清楚json里面还会有array, 没有考虑到这个，结果没有做完。一小时之后收到据信。

面试官是一个台湾大叔。题目是一道地里出现过的类似的题.给一个stack的interface, 有三个method, 分别是push, pop, size 写一个类来实现它.  
然后问怎么样能随时得到栈里的最小值..1point3acres缃�  
基本上就是cc150原题.  
  
注意这里是实现一个栈, 所以不能直接用java里的栈作为数据结构.. visit 1point3acres.com for more.  
  
Bless!. Waral 鍗氬

记得不是很全了  
1. 3个长度一样的array a1, a2, a3, 找出所有 A + B = C 的组合，A在a1里，B在a2，C在a3里；扩展到4个数组 a2, a2, a3, a4，找出A+B+C=D的组合。。 然后扩展到n各数组；做完了又给了一道题目，不难，忘了。。  
2. 一个系统里面，有user 在不断的login and logout, 现在给你几组user的（username, login\_time, logout\_time)的数据，打印出各个时间点系统有几个active user；follow-up，修改我的实现，让我的函数支持 类似JS的callback机制  
3. 面我的是一个中国人神牛。因为我说我用c++,然后感觉他临时选了这道题给我。。 reader-writer problem. 用mutex 实现user-writer problem。 follow-up，问会有什么问题，其实会有starving 的情况发生，然后一起商量怎么处理  
4. 忘了 =。=

15分钟对方背景介绍，介绍自己project，为什么要来uber  
15分钟基本功题一道：找string中所有单词frequency并排序输出  
比如 “cat bat man bat cat”  
输出  
man：1  
bat：2  
cat：2  
  
需要自己决定如何输入输出，外加跑unit test  
coderpad上需要编译通过运行。我编程一向粗心，整个过程出了四次编译错误，不过幸  
好对方看起来不太在意。  
  
10分钟hash table概念深度扫描  
  
hashtable怎么实现：各种方法blabla  
让你选你用哪种：各种优劣对比blabla  
不断加入元素后如何维护性能： load factor rehash blabla  
hashtable array长度一般怎么选，rehash／resize对时间复杂度影响   
  
还剩快十分钟的时候小哥就想挂电话走人的样子，强行拉住问了两问题拖到45分钟，结  
束。  
  
另外再次感谢uber growth组的mitbbsfanfan内推，哥们非常热心，虽然最后被growth  
组recruiter踢到别的组，还是很感谢提供这个机会！

下午刚面的，面试官是一个华裔abc， 人很nice。  
题目是anagram的变种，就是给一个dictionary， 再输入一个word， 让我写个  
function去找dictionary里面是否有这个word的anagram。  
  
我先是想到了LC的anagram，就说把每个dictionary 里面的sort 一下然后存个hashmap  
。她说行，开始编程。完事后面试官让我试不同的testcase，问复杂度并且，我说O（  
nklgk）. 她问能不能更efficent一点。我说用个对每个dictionary的word建立一个int  
array，然后统计每个char的出现次数 这样应该是O(nk)。她问有没有别的方法，我就  
说可以不用array, 用hashmap 统计（我实在想不到别的办法了）。面试官又问用矩阵  
和hashmap的区别和各自优缺点。我胡扯一通，时间到了。听面试官的语气应该还有更  
好的解法，希望版上大牛们能指导一下。总体上说面试官人很nice，也没为难我，经常  
给提示。

http://www.mitbbs.com/article\_t/JobHunting/32982219.html

design a uber

<http://www.mitbbs.com/article_t/Programming/31398643.html>

1. 3个长度一样的array a1, a2, a3, 找出所有 A + B = C 的组合，A在a1里，B在a2  
，C在a3里；扩展到4个数组 a2, a2, a3, a4，找出A+B+C=D的组合。。 然后扩展到n各  
数组；  
  
题目没说用不用hashtable，以及有没有重复的数。  
请问大家分析分析怎么做的最简单？谢谢了！

<http://www.mitbbs.com/article_t/JobHunting/32945071.html>

问了一个简单的coding题，one edit distance:  
假设你有输入a, b 判断a, b是不是只相差一个字母（长度diff by one也算），比如：  
xyz, xym -> True  
xyz, xy -> True  
xyz, x -> False  
xyz, xnm -> False  
  
然后是一个system design:  
如何设计网页上的auto complete功能  
前后端怎么实现 怎么存储 （ajax, backend service query DB and return data, DB  
is key, count pair and indexed by both key and count）  
in memory的话用什么数据结构来存 (trie)  
如何做auto complete提示的的ranking (trie的节点添加count)  
  
不好意思 最后这个问题其实换了一个context 我开始写的时候没写清楚  
假设现在用户没有输入任何东西 我希望auto complete显示用户对此field的常用输入  
的top n记录 那么怎么存这个top n 怎么更新这个top n的ranking数据  
(最后说的hashmap + heap)  
  
面完半小时之后就通知过了 :p

http://www.mitbbs.com/article\_t/JobHunting/32977923.html

烙印面的。。。  
1 聊简历  
2 Word Ladder II  
以前只写过找所有path然后在dfs出最短path的解，烙印不让用，问有没有更好的方法  
。。。我建了个Graph，用BFS+mp搜，磕磕碰碰写了个大概。。。  
。。

http://www.mitbbs.com/article\_t/JobHunting/32981481.html

刚刚跪了。。大家看看这道题有什么好方法吗？  
  
给一串direction, 比如A N C 意味着A在C的北边。写一个function验证这些direction  
是否valid  
  
Note：A N C, A NE C同时出现是合法的  
  
例子：下面这个不合法，因为A N C, C NE D所以不可能A S D  
A N C  
B NE C  
C NE D  
A S D  
B W A  
--

两个常规题：  
  
1.given two sorted arrays a, b, merge b into a (assume a always has enough   
space)  
  (time complexity, worst case scenario)  
  
2. find lowest common ancestor in binary search tree  
  (time complexity)  
   follow up: do it iteratively  
  
  
onsite 难吗？

<http://www.mitbbs.com/article_t/JobHunting/32916233.html>

One Edit Distance  
Binary Search in Rotated Sorted Array  
Sqrt, Power using binary search  
Regular Expression Matching  
LRU  
Max number of Points on line  
Combination Sum  
Decode ways  
K-th biggest/smallest number in unsorted stream/array  
Log hit类题目  
给定一个string，在字典中查找共同前缀最长的单词  
判断树是否BST, 是否symmetric, root到最大值节点路径  
判断图是否bipartite,判断有向图是否tree