**BQ:**

为什么adobe, 知道我们组产品干什么的吗？ 然后问了职业目标等

这个team怎么样啊？ 然后对这个job感兴趣吗

Behavioral about how will you act in a situation when you are given a very short deadline for a project.

how will you troubleshoot a problem

What’s the best bug that you’ve created and how did you resolve it?

**General**

java比较深的东西 多线程，线程池，异步处理等

Restful

SQL injection

数组和linkedlist有什么区别

return middle node of a linkedlist by traversing only once

Linux, Nginx, Node 8, Postgres using Docker.

Difference between process and threads

What is Node.js?

(Javascript are normally runs in browser and can only access the webpage, but node.js give you an environment to let you run js on your machine: you can access the file on your machine, listen to the traffic of network, listen and serve to the http request, access database and etc.

And it sits in memory so it’s super fast)

Node is ideal for I/O intensive application(disk/network access):

Serve more client without the need to open more hardware(more threads -> more process)

Not good for CPU intensive app like video encoding. Single thread so when perform an calculation for one client, others have to wait

Q: What are the different classes in the collection frameworks in Java?

Q: What is concurrent hashmap and how does it work?

**Q: What happens when you type an URL in a browser**

**Difference between Queue,add() and Queue,offer()**

What’s the difference between asynchronous and multi-threaded?

(

asynchronous call doesn’t necessarily create a new thread ; it simply means the calling thread doesn’t sit and wait for the response, nor does the asynchronous activity happen in the calling thread.

For example, an I/O command can be called asynchronously and the calling thread can continue on after it does that I/O call, and once the I/O call returns, hardware can interrupt the CPU and the event gets delivered back to the calling thread. This can happen on a single thread or, if the CPU needs to do some work, the operation can/should happen on another thread for it to be truly asynchronous.

)

What’s the difference between Processes and Threads

(a process, in the simplest terms, is an executing program. One or more threads run in the context of the process. A thread is the basic unit to which the OS allocates processor time.)

If you have two threads trying to set results on the same address in memory, what’s the assembly language instruction used to achieve synchronization

(The interviewer was looking for “CAS”, Compare And Swap. CAS is used to implement synchronization primitives like semaphores and muteness, as well as sophisticated lock-fee and wait-free algorithms.)

Virtual Memory

有客户抱怨我们的网页很慢 可能的debug

**Coding**

**Java**

1. **level order traverse BT \* 2**

**2, Reverse string**

1. Word ladde I/II
2. **O(1) random(), delete add \* 2s**
3. **Hashmap实现 \* 10 （有一个人** simple singleton class to store a dictionary of words i.e a map of words to their meanings**）**
4. **Implement Queue using stack \* 4**
5. **Stack implementation using queue**
6. **Given two huge files (can’t fit in memory) having strings, print the common strings in them.**
7. **LRU \* 5**
8. **Combination Sum/Permutation**
9. **LFU**
10. 一个array方面的题目， 签了保密协议不敢说太多， 最问了各种large scale data的处理
11. **Linkedlist里面找环 \* 6**
12. tic tac toe输赢算法
13. 假如有一个string “abdcand” 要去掉duplicated char 然后保持原来的顺序 输出为abdcn

* 用dictionary做 然后她的答案是可以用一个int做

1. 两个sorted array 问你怎么merge
2. **OO design poker game 还没看**
3. 295. Find Median from Data Stream
4. 480. Sliding Window Median 还没看
5. 给一unsorted array，要求把奇数放在奇数的位置，偶数放在偶数index，还要保证奇偶都是有序的，求问最少多少swap才可以。
6. 给一个string找到第一个repeating char的index。然后写完之后又问如果是很多个string让你找出repeating string怎么找
7. 找出regular expression比如ab\*在一个string里面所有符合的substring的个数，看似牛逼，其实就是玩转一下String length.
8. binary search tree的insert function的实现
9. **LCA \* 2**
10. rope puzzle, goldbar puzzle

1. Connect 4 board game
2. Print permutations of a string
3. question similar to Two Sum
4. Reverse the Link List
5. Write the code to reverse the words in the string( Input: This is my pen Output: pen my is This)
6. Write the code to print all the leaf nodes in the tree

1. Write the code for producer and consumer problem
2. Write the code that creates the Deadlock Scenario and how will you rectify it

etc (Refer geeksforgeeks problems ) \* 2

1. design a parking lot
2. **implement Mergesort. \* 2**
3. Calculate the angle between the hour hand and minute hand if you're given the hour and minute as integers.

**Js**

1. 返回数组最大值
2. React Redux的东西，代码补全，实现简单的action函数
3. 利用ES6 的继承和class，按要求定义几个类
4. 实现 multiple(2)(3)(4)(5) 类似的函数，返回 2\*3\*4\*5，但需要支持不定参数，有可能是multiple(3)(4)(5)(5)(9)
5. followup addMultiple(2)(3)(4)(5)-> (2+3)\*4\*5
6. 前面三题都是秒杀，挂在第四题上了（也就js有这种奇葩实现方式了）尝试用Function.toString，但发现老是过不了test case
7. 忘记说了，每题都是实现一个函数，然后有提供test case，用assert.js去unit test
8. 面试后才发现就算有了toString, typeof a 还是function 类型，所以unit test要转换下类型才能过去
9. **I have been asked to build a simple web app from scratch with a mocked backend, it was required to use jQuery \* 2**

**What is the significance of, and reason for, wrapping the entire content of a JavaScript source file in a function block?**

**This is an increasingly common practice, employed by many popular JavaScript libraries (jQuery, Node.js, etc.). This technique creates a closure around the entire contents of the file which, perhaps most importantly, creates a private namespace and thereby helps avoid potential name clashes between different JavaScript modules and libraries.**

**Another feature of this technique is to allow for an easily referenceable (presumably shorter) alias for a global variable. This is often used, for example, in jQuery plugins. jQuery allows you to disable the $ reference to the jQuery namespace, using jQuery.noConflict(). If this has been done, your code can still use $ employing this closure technique, as follows:**

**(function($) { /\* jQuery plugin code referencing $ \*/ } )(jQuery);**