Amazon 系统设计真题 2020

本资料由九章算法独家倾情整理
www.jiuzhang.com

目录

拿亚麻 offer 必备课程

《面试软技能指导 - BQ/Resume/Project》《九章算法班》《面向对象设计 OOD》
《系统设计 System Design》《人工智能集训营》《硅谷求职算法集训营》

Amazon 系统设计题

1. 设计一个 service，任何人 call 这个 service，return 一个 unique id，不能和其他人重复

2. 设计一个 canvas 可以画三角形圆形方形，画 class diagram。Follow up 怎么 implement redo 或者 undo。

3. 设计一个大楼的电梯，电梯箱,按键面板等对象和它们之间的关系

4. 设计一个机场调度系统

5. 设计一个内部 YouTube 网站

6. Design an Amazon recommendation system

7. Implement a Parking Service: Given a set of different parking bays (Small, Medium, Large) write a control program to accept/reject cars (also small, medium or large) as they arrive, and issue/redeem tickets.

8. Write code for an Amazon Locker System with following features:
Users should be able to use a code to open a locker and pick up a package
Delivery guy should be able to find an "optimal" locker for a package

9. Design a system to track Web page visting.

10. Design an app like Workday

11. 设计一个交易平台

12. explain the Amazon Order history (E2E) design and performance improvement

13. Design a system which has an input page and output is the Url which is shared among the network

14. 设计 twitter 的 api

15. Design an Air Traffic Controller

16. Design a system where a package and a truck need to be delivered
check if all packages and vehicles have been sent out

17. Design a service for Alexa devices to report battery status (Object Oriented Design).
18. Follow-up: Should be for all alexa devices (video & audio, audio only, IOT devices etc.)

19. 设计一个 API 根据产品的参数筛选合格产品。首先要有 a list of Rules. 每个 Rule 的 validate 函数接受一个产品，然后给出检验结果。

20. Design a system to store people's information?
   · How to check a person's information is correct?
   · How to decide which website information is good?