**Amazon 系统设计真题 2020**

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本资料由九章算法独家倾情整理

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**目录**

[1. Amazon 系统设计真题 1](#_Toc20485017)

拿亚麻 offer 必备课程

《[面试软技能指导 - BQ/Resume/Project](https://www.jiuzhang.com/course/21/?utm_source=sc-libao-facebook)》《[九章算法班](https://www.jiuzhang.com/course/1/?utm_source=https:/www.jiuzhang.com/course/21/?utm_source=sc-libao-facebook)》《[⾯向对象设计OOD](https://www.jiuzhang.com/course/40/?utm_source=https:/www.jiuzhang.com/course/21/?utm_source=sc-libao-facebook)》

《[系统设计System Design](https://www.jiuzhang.com/course/28/?utm_source=https:/www.jiuzhang.com/course/21/?utm_source=sc-libao-facebook)》《[人工智能集训营](https://www.jiuzhang.com/course/20/?utm_source=https:/www.jiuzhang.com/course/21/?utm_source=sc-libao-facebook)》《[硅谷求职算法集训营](https://www.jiuzhang.com/course/29/?utm_source=https:/www.jiuzhang.com/course/21/?utm_source=sc-libao-facebook)》

## 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

1. Design a system to track Web page visting.
2. Design an app like Workday
3. 设计一个交易平台
4. explain the Amazon Order history (E2E) design and performance improvement
5. Design a system which has an input page and output is the Url which is shared among the network
6. 设计twitter的api
7. Design an Air Traffic Controller
8. Design a system where a package and a truck need to be delivered

check if all packages and vehicles have been sent out

1. Design a service for Alexa devices to report battery status (Object Oriented Design).
2. Follow-up: Should be for all alexa devices (video & audio, audio only, IOT devices etc.)
3. 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。
4. 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?