PFB the Problems that were asked in yesterday’s interview=

1. Design question- Design an Amazon Website from a seller, customer and Admin's perceptive.

Describe Design Details for following operations-

1.ADD an item (from a seller's perspective)    sample end points- POST /item

2.GET that item  (from a seller's perspective)  GET /item/{id}

3.Update the items that you have posted, item (from a seller's perspective)  PUT /item/{id}

4.Search the items/products and write the whole URL and SQL Query on how will search happen in DB

5.Purchase the items, also we need to describe the steps that could be there in the process of purchase

6. Add to Wishlist for future

Apart from imagination of details of particular operation, in these questions Mainly we are asked to describe the following-

1. END POINTS (POST/PUT/GET/DELETE)

2. Request and Response for a particular problem

3. Table/problem details that we can imagine and write all fields

4. DB that could be used and why?

In between there might be questions like-

1. Write SQL query and optimize it

2. Add few more constraints in the problem and optimize the approach

3. How URL would look like

According to my experience this problem was more of the imagination and knowledge of basic concepts.

1. Coding Question
2. Description -> Write code to find the max profit from an Array prices[] which indicates the prices of the stocks on those particular days such that we can buy on a day and sell such item later.

Also, given an array blackOutDays[] which indicates the days on which we can’t perform buy/sell. Return an array showing the days of buy and sell.

Sample cases – i. prices –[3,6,13,7,16,18,12,4,8,17,12,15]

                                blackoutdays- [5,6,11]

                                result [1,10]

                                  ii. prices –[8,5,3,2,1]

                                       blackoutdays- []

                                result- []

It might be asked to optimize the code and potential errors that we could encounter.

For optimization we can use- Suffix Array or 2-pointer approach.