**Flipkart SDE-2 Interview Experience**

* **Machine Coding Round(90 mins) :**
* Implement a running Online Dating Application which allows user to like-dislike suggestions in order of relevance of Gender, Interest, Distance, Age etc.
* It shows matches for any user if any till now.
* Relevance order should be extensible/editable with minimal change of code.

* **Coding Round**
* Given N islands consists of gold coins of different numbers. Find best path where user can pick Max-Gold-Coins, provided condition he can’t go to two consecutive island (i.e. if has one to i-th island then he can’t to i+1-th island). Also He can only move to i+2-th and i+3-th island.
* A matrix represents prison in form of X and 0. X is a wall, 0 is a cell-sections. Fill k cells such that number of cells remains same. He can move to right, up, down, left in a matrix.

[1, 0, 0, 1, 1, 1, 0, 0

1, 0, 1, 1, 1, 1, 1, 1

1, 0, 1 ,1, 0, 0, 1, 1]

🡪 Number of cells here 3. K = 4; Output should be:

[1, 0, 1, 1, 1, 1, 0, 1

1, 1, 1, 1, 1, 1, 1, 1

1, 1, 1 ,1, 0, 0, 1, 1]

This could be done by DFS. All child nodes will be filled except parent/starting node.

* Given Two companies A,B with subsidiaries m and n respectively.

A = [a1,a2,..,am] B= [b1,b2,..,bn]

A[i], B[i] represent value of that subsidiary

A and B can do Two perform Actions

Friendly-Merge() : Merge its own subsidiaries ak and ap : resultant subsidiaries A(kp) valuation will be ak+ap.

Hostile-Merge(): Any subsidiary of A has value greater than B will Acquire that subsidiary.

Or Vice-Verse. Resultant will have same valuation as before. Value(HostileMerge(a,b)) = a

Given an input find who will acquire other in the end.

It kind of game that will be player between two players in the end one will acquire other. We need to tell who will win.

* **Design Round**
* Implement Uber. Main focus was on how to design database for Cab Book Request to Trip End/Cancelled.
* Design required to handle all actions like: Trip Cancelled by User/Cab Driver etc.
* Fare Calculation/Tracking a cab/Share cab to friend to track etc.
* **Hiring Manager Round**
* Mainly An open ended discussion: Where you can ask him anything, discuss about your experiences and projects
* He was trying get to know about any Product-Design delivered by you in your project rather than features/bug fixes.