

# Oracle interview Questions

--Aditya Singh

## Round 1:

1. Puzzle: there are  $2n$  coins on a table.  $N$  have heads facing upwards and  $n$  have tails facing up. You have to separate them in two separate piles such that both piles have equal number of heads and equal number of tails. ie number of heads in one pile is equal to the number of heads in the other pile.
2. Puzzle: there are 3 workers. They want to know their average salary. They do not tell their original salaries to each other (they may tell a wrong amount). How are they going to do it (find average salary). (this was the original question, I got her to make many modifications like they tell the same wrong amount to both, and that they will tell the averages calculated using wrong amounts to each other)
3. Puzzle: Khul ja sim sim wala question tha. Three doors, a prize behind any one of them. Initially all are closed and I am asked to select one of them. After I select one of them, the host opens one of the remaining, one without a prize and asks me to reconsider my choice. The question is whether I switch or not.
4. Code: I am given an array containing a list of 4 numbers (1-10). I am supposed to generate a list of 3 numbers (1-10) so that I can generate all the 4 numbers of the initial list by adding the 3 numbers of the generated list.
5. Code : input string: 13fga7er Output string: aerfg11
6. Ek algo ka aur tha, but usmein bas quicksort hi implement karni thi, she wanted me to write a code, I said code can be found in libraries, I can show the algorithm, she accepted.
7. Asked me to explain my project

## Round 2:

1. Code: he asked me to write a code to mirror a binary tree below a certain level (mirror all subtrees below a certain level). He was looking for a solution using BFS, my code used DFS, so it took a lot of convincing and dry run on many test cases.
2. Code: To find all the sub-arrays of a given array.
3. 2-3 easy Puzzles. Not worth mentioning.
4. Asked me to explain one of my projects.

## Round 3:

1. AIEEE rank
2. Reason for the low CGPA in 2<sup>nd</sup> semester
3. Questions related to my projects (was impressed as both were live and currently in use). Technology used, why the project was implemented, advantages, areas for improvement, future prospects (asked me to draw the UI of the interface I was going to implement). This discussion went on for 20-25 minutes (I think).
4. Asked me if I had any questions.

**Round 4** was HR round, normal questions until she saw TPO coordinator on my resume, after that all questions were related to TPO and how it functions and what was my role in it and many placement related scenarios.