Onmobile Interview — Arvind Singh

(1)
```
int i = 10;
int x = i++;
int y = i++;
int z = --i;
System.out.println(x);
System.out.println(y);
System.out.println(z);
```

(2) Difference between ArrayList and vector.

(3) Difference between Set and Map.

(4) Give example of iterator.

(5) ArrayList Function to add or remove an element

(6) Explain for loop

Example
```
for(i=0; i<=10; i++)
{
    // which part is Compulsory and which part is optional
}
```

(7) Hierarchy of Servlet, i.e., HTTP Servlet, Generic Servlet, Servlet

(8) Synchronisation ?

(9) Serialisation ?

(10) Any two Linux Commands.

(11) Javascript Concept

(12) Syntax of trigger.
(13) Explain your project.
(14) Servlet Config and Servlet Context.

HR Interview

(1) strength, weakness
(2) Family Background
(3) Why should I hire you?
(4) Hobbies?
(5) Latest movie you watched
(6) Do you believe in Destiny or hard work
(7) Why have you done CDAC.

Reliance...

Q) How JVM works?

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Q) diff between set and arraylist

Q) how to configure struts xml

Q) ~~how~~ what are implicit objects in jsp

Q) life cycle of servlet

Q) what is HttpServlet and Generic Servlet

Q) difference betn method overloading and method overriding

Q) what is inheritance

Q) what is polymorphism

Q) Normalisation

Q) DML, DDL, DCL, DTL, DQL is SQL

Q) what is generics

Q) what is collection

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9) Jim lies a lot. He tells the truth on only one day in a week.

one day he said: "I lie on mondays and Tuesdays."

The next day he said: "Today is either Sunday, Saterday or Thursday."

the next day he said: "I lie on fridays and wednesdays."

on which day of the weeks does Jim tell the truth?

9) these are twenty coins sitting on the table, ten are currently heads and tens are currently tails. You are sitting at the table with a blindfold and gloves on. You are able to feel where the coins are, but are unable to see or feel if they heads or tails you must create two sets of coins. Each set must have the same number of heads and tails as the other group. You are unable to determine their current state. How do you create two even groups of coins with the same number of heads and tails in each group?

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King octopus and servants puzzle (Difficulty -3)

King octopus has servants with six, seven, or eight legs. The servants with seven legs always lie, but the servants with either six or eight legs always say the truth.

one day, 4 servants met:

The blue one says: "Altogether we have 28 legs";

The green one says: "Altogether we have 27 legs";

The yellow one says: "Altogether we have 26 leg";

The red one says: "Altogether we have 25 legs";

What is the colour of the servant that says the truth?

This is very famous logical puzzles.

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Q. You are in a room that has six doors. You must pass through all six doors, each door once only, in the correct order. Three are entrances only and three are exits only. Door A must be followed by door B or E; D by A or F; B by C or E; C by D or F; E by B or D; and F by C or D. Also A, F are entrance and B is exit. In what order you must pass through the doors?

Puzzle :- Albert and Bernard just became friends with ~~Cheryl~~ Cheryl, and they want to know when ~~her~~ her birthday is. Cheryl gives them a list of 10 possible dates.

May 15 May 16 May 19
June 17 June 18
July 14 July 16
August 14 August 15 August 17

Cheryl then tells albert and Bernard separetly the month and the day of her birthday respectively.

Albert: I dont know when Cheryl's birthday is, but I know that Bernard does not know too.

Bernard: At first I dont know when Cheryl's birthday is, but I ~~know~~ know now.

Albert :- Then I also know when Cheryl's birthday is

SO WHEN IS CHERYL'S

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supersonic bee and trains (Difficulty -3)

Problem :-

Two trains enter a tunnel 200 miles long, travelling at 100 mph at the same time from opposite directions. As soon as they enter the tunnel a supersonic bee flying at 1000mph starts from one train and heads toward the other one. As soon as it reaches the other one it turns around and heads back toward the first, going back and forth between the trains until the trains collide in a fiery explosion in the middle of the tunnel. How far did the bee travel?

Problem :-

( ) + ( ) + ( ) + ( ) + ( ) = 30

This is what you have for equation. The following are the numbers that you can use to fill in the brackets

1, 3, 5, 7, 9, 11, 13 and 15

You can repeat the numbers if required. The resulting sum should be 30.

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Q. At the party there were 19 females, 12 males, 14 adults and 17 children. Then 9 arrived and the number of different man-women couples possible became equal to the number of boy-girl couples possible. Who am I - a man, a woman, a boy or a girl?

Note that if there were 9 boys and 8 girls at the Party, then there would have been 72 (9×8) boy-girl couples possible.

Q 2. Two fathers and two sons all decide to go fishing one day. They are all going to participate, but upon arrival at the nearby pond, only three lines go out into the water. How is that possible?

Q 3. Pinto says; "The horse is not Black."
Sandy Says, "The horse is either Brown or Grey".
Andy Says, "The horse is Brown."
At least One is telling truth & One is lying
Can you tell the colour of the horse?

Q.10 0 people are standing in a circle. The person standing at number 1 is having a sword. He kills the person next to him with the sword and then gives the sword to the third person. This process is carried out till there is just one person left.

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The Ant problem Microsoft, Adobe Interview

(Difficulty - 3)

There are 100 ants on a board that is 1 meter long. each facing either left or right and walking at a pace of 1 meter per minute.

The board is so narrow that the ants cannot pass each other; when two ants walk into each other, they each instantly turn around and continue walking in the opposite direction. when an ant reaches the end of the board, it falls of the edge. from the moment the ants start walking, what is the longest amount of time that could pass before all the ants have fallen OFF the plank? you can assume that each ant has infinitely small length.

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Q) Can you find the last number in series?

5 8 17 47 242 ?

Q) Peeta asks Katniss, 'It is 9pm as per my watch right now. Do you know what will be the time 23,999,997 hours later?

Q) Alan is an honest person who never speaks lie. He thinks of a number among 1, 2 & 3. Now, you can ask him only one question and that too for which the answer that you will receive will be in the form of yes, no or don't know. But he will reply only truth fully.
What will you ask from his so that you can know the number he is thinking of?

Q) One man was moving to & fro in worry when a bright woman noticed him. On asking he told her that while replacing his tire, he incidentally dropped all the four nuts into a deep drain. She told him what to do and he was then able to drive back successfully till his office.
What did she say to him?

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Q) A murderer is condemned to death. He has to choose between 3 rooms. The first is full of raging fires, the second is full of assassins with loaded guns, and the third is full of lions that haven't eaten in 3 years. Which room is safest for him?

Q) There are 9 coins. 8 are of 1 gram & 1 is of 2 gram. How will you find out the heavier coin in minimum number of weighing & How many weighing it will need.

Q) Can you find the next letter in the series?

S-T-I-L-N-T-F-Y-?

Q) Tanya wants to go on a date and prefers her date to be tall, dark and handsome.
Of the preferred traits - tall, dark and handsome - no two of Adam, Bond, Cruz and Dumbo have the same number
Only Adam or Dumbo is tall & fair.
Only Bond or Cruz is short and handsome.
Adam and Cruz are either both tall or both short.
Bond and Dumbo are either both dark or both fair.

Who is tanya's date?

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Q. There are three playing cards lying face up, side by side. A five is just to the right of a two. A five is just to the left of a two. A spade is just to the left of a club, and a spade is just to the right of a spade.

Q. Sam Winchister, who lived in Cheeryville decided to surprise his Grandmother who lives in Cheeryville with her favourite fruits pears. Sam had gotten 3000 pears and Cheeryville is 1000 km from Peerland. He got a mini truck, which can carry a maximum of 1000 pears at a time. However, every three km there is a toll booth where you need to pay 1 pear, but you pay nothing when going in the other direction (towards Peerland).

What is the highest number of pears you can get Cheeryville?
