

Travisca Interview Experience

- RAHUL VERMA

- Online
- Round 1: A) Aptitude + technical MCQ's (including Datastructure & OS)
- Coding B) Pattern $n=3$ $n=4$
Round (In any language)
-
- The diagram illustrates binary tree spiral traversal. For $n=3$, the tree has 7 nodes arranged in a 3x3 grid. For $n=4$, the tree has 15 nodes arranged in a 4x4 grid. The traversal path is shown by arrows, starting from the top-left and moving right, then down, then left, then up, and so on, covering all nodes.

- Binary Tree spiral traversal

- Round 2: GD Android vs iOS
OpenSource vs licensed software

- Round 3: Technical Interview
- Explain oops to non IT person
 - What is OOPS
 - Real life examples of all OOPS pillars
 - Project related Question
Session Management
What changes will be required to make website realworld?

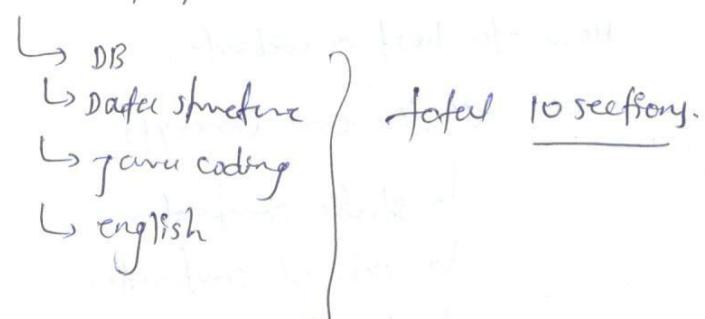
- Round 4: Technical round
- Basics of C#, Java
- Static class vs class with all static methods
- Order of execution in case of static constructor, constructor
how class is loaded
- Write code for Singleton
- Data Structures
- MVC, version
- Why MVC
- Explain project in technical aspects

Round 1

Tavisca

{manish godtan}

- online Apti + technical test.



Round 2

- GD

↳ Android vs iOS (OS).

Round 3

- Introduction

- Why EXTC TO IT.

- OOPS concepts

↳ all concepts with eg.

- Interface

↳ real world eg.

- Data structures

↳ stack

↳ queue

↳ Binary search tree

↳ palindrome or string

} Algorithms

} code

Round 4

- introduction.
 - How to host a website.
 - .NET all for core Concepts
 - ↳ static constructor
 - ↳ normal constructor
 - ↳ this, super
 - ↳ class load
 - ↳ layered Lucy resolution
 - singleton class by two different ways.
 - threads in singleton class
 - exception
 - threads, synchronized, Lock
 - advance .NET, db.
 - MVC framework, .NET framework.
 - life cycle.
 - file handling. (open file and write and read at the same time by using two diff. threads) ?.
 - extension methods.
- All the basic things
around
20-25 mins.

puzzle

1 2 3 4

Food

1 2 3

1000

- 1 → will open all doors.
- 2 → will close 2, 4, 6, ... 1000 doors
- 3 → will close 3, 6, 9, ... doors

} which door will be left?

Travisca

Sort an Array in such a way that even position will contain even no. & odd position will contain odd element with minimum swap.

Input	3 2 1 4
Output	2 1 4 3

swap [2]

G.D. Topic. Android vs OS. prepare more for Open Source sh
 VS
~~Licensed SW~~
 Licensing SW

3	3	3	3
3	2	2	3
3	2	2	3
3	3	3	3

* Tarisca *

- ① oops concept with real life example (2-3)
- ② ref & out → why we use ref if we have reference
- ③ ds → 2 stack as queue
- ④ reverse queue
- ⑤ palindrome → "12321" → as integer
- ⑥ prime no - 1 to 100 e.g. 13 then find nearest fibonacci & sum of all.
- ⑦ using - uses
- ⑧ project
- ⑨ In different packages how to use classes
- ⑩ Nileema → then sum of ascii value
e.g. 60 → 110
- ⑪ throw, throws, throwable
- ⑫ final, finally, finalize
- ⑬ Interfaces → (deep) can interfaces be private
- ⑭ overriding
- ⑮ Ds → Trees
- ⑯ Generics
- ⑰ abstract classes
- ⑱ diamond problem
- ⑲ IEnumarable
- ⑳ What is interoperability?
- ㉑ Why CLR called common?
- ㉒ .net framework?

- (23) what is virtual & override keyword
→ (deep)
- (24) If ~~why~~ virtual not written in parent class & same method written in child class. so what happened?
- (25) necessary to write override?
if not write then what happened?

(26) interface A interface B
 disp() disp()
class C implements A, B
 disp() which disp() method,
 i.e. from interface will called

- 1) Tell me Something about Yourself.
- 2) Analytical puzzle.
- i) A Frog is in 11m empty Well.
He wants to comeout from well.
He climb 3 meters a day but slips down
2 meters in the night.
So how many days required to climbout from
well. (9 days)
- ii) You have 9 balls, equally big, equally heavy -
except for one, which is a little heavier.
How would you identify the heavier ball
if you could use a pair of balance scales ?
hint only twice
(minimum use of
balance scale)
- 3) OOPS Concept
- 4) What is Polymorphism?
- 5) What is Runtime Polymorphism?
- 6) ~~Rules~~ Method Overloading & Overriding?
- 7) Rules of Overriding?
- 8) What is Interface?
- 9) Why Interface introduced since you have
abstract class? What is use of interface.
- 10) Interface A
- {
- void Search()
- }
- }
- Interface B
- {
- void Search()
- }
- }
- Class C implements A, B
- {
- void Search
- {
- //
- }
- }

what will be the output of given code? will it run successfully or Compile time Error Due to ambiguity?

- 11) What is delegate? Explain in Brief.
- 12) What is ArrayList & LinkedList.
- 13) Write a program on Linked List.
- 14) How will you add and delete element in LL.
- 15) Tell me something about your Project
- 16) What is WCF?
- 17) What is Advantages of WCF?

HR

- 1) Tell me Something about Yourself
- 2) Why Tavisca?
- 3) Why Should I hire u?
- 4) Who is your ideal person? Why?
- 5) Are u ready to relocate?

—x—x—x—

Feb 13

Tavisca Technical questions

- 1) Stack implementation
- 2) OOP's concept
- 3) Finally block
- 4) Join with query
- 5) Polymorphism example
- 6) What is diff. b/w CTS & CLS (.net)
- 7) .NET framework (architecture)

Cybage Technical questions

- 1) Diff. bet/w malloc & calloc
- 2) Diff. betw new & delete
- 3) Linked List implementation
- 4) Fibonacci Series using recursive funn
- 5) static block in java.

Tavisca.

Swapnil S. Dalvi.

Feb'13

- 1) Tell me about your B.E. project.
- 2) Draw Architecture of your B.E. project
- 3) What is join
- 4) Why we use join? ~~we can put all data in only one table~~
- 5) What is normalization?
- 6) What is polymorphism?
- 7) What is function overloading & overriding.
- 8) What is pointee
- 9) What is null pointee
- 10) What is sorting
- 11) Which sorting techniques you know? Explain Heap sort.
- 12) What is abstraction, encapsulation? Eg
- 13) Tell me abstraction, encapsulation according to laptop.
- 14) What is indexing
- 15) What is hashing
- 16) If I want to create dictionary, how will you put entries of words in dictionary.

(*)

HR

- 1) Tell me about yourself
- 2) What is your family background
- 3) What are your hobbies.
- 4) What are who is your idle?
- 5) What qualities you like about your idle.
- 6) What do you think about woman's role in society.
- 7) What is the worst comment you ever got in your life

Taviska Interview Question

1)

<u>Puzzles</u>	
withdraw	Balance
	100
50	50
25	25
10	15
8	7
5	2
2	0
100	99

Where is 1 Rupee.

- 2) If there are 9 coins out of which one is ~~the~~ faulty & having weight less than other coins. How will you identify the coin using balanced weight.

2)

Logic1
1 1
1 2 1

1 2 3 2 1

1 2 3 4 3 2 1

1 2 3 4 5 4 3 2 1

2)

- Reversing String using linked list.



- Q.1) Arrange 10 balls in 5 lines, each line should contain 4 balls.
- Q.2) In a Tennis Tournament, each player gets knock out if he loses
a) find how many players will be there if 15 matches are played.
b) if there are 80 players, find how many matches will be played.
- Q.3) If watermelon weighs 100 pounds, it has 99% water, if it is kept under the sun, water content becomes 98%. find the loss of water in pounds.
- Q.4) If there are two cyclists, 36 miles apart, coming towards each other, each coming with a speed of 6 mph, and they meet half way of their distance, if one cyclist has a pigeon which travels at 18 mph, & starts as soon as cyclist start, find the distance covered by a pigeon.
- Q.5) A pirate has 100 black pearl & 100 white pearl, black pearl are worthless & white pearl is priceless, if he has two sand bags named Head & Tail, find the number of proportion he should distribute the pearls in the two sand bags, to get maximize the odd of getting the black pearl.

Ans:

Head bag : white → black →
Tail bag : white → black →

- Q.6) If a shopkeeper sells a toy at Rs 200 to women, she gave 1000Rs note, shopkeeper gives 1000Rs to neighbouring shopkeeper and gives 800Rs to women, later on,

Q-

Page No.

Date

STORY PROBLEMS

The neighbouring shopkeeper finds the note was fake, so the shopkeeper returns the 1000Rs to the neighbour. find the profit / loss to the shopkeeper.

Q.7) If there are 20 people, and 20 Breads, A man can eat 3 breads, women eats 2 bread & child eats half bread. A ~~man~~ child cannot eat more than 3 or less than 3, same with women & child. find the no. of women, man & child.

Q.8) A car travels 10000 miles, find the no. of miles (including a spare tire) each tyre should have travelled?

Q.9) In a deck of 52 cards, if they are equally sliced into equal halves. Now the cards are 0, 26, 21, 25, 2, 24 & so on. Now in how many perfect shuffles, you will get the cards as the original position.

10) if there are some bees & some flowers, find out the no. of bees & no. of flowers

a) if two bees share one flower, one flower will be in Spare.

b) if one bee gets ~~the~~ One flower, then one bee ~~won't~~ get the flower.

i) if a container has some amount of volume of water, if m% of water is added in the tank & n% of water is removed from the tank, then after some hours, the volume of water in the container remains same, choose the option:

- a) $m < n$ b) $m > n$ c) $m = n$ d) cannot be determined.

Pawan Ramesh Bole - TAVISCA

- ① What is ASP.NET?
- ② Explain the Page Life cycle.
- ③ What will happen when we disable cookies?
- ④ What is session?
- ⑤ Why did you prefer .Net in your last project?
- ⑥ Draw the class-diagram of your project?
- ⑦ Draw the class diagram for the following scenario.

A customer buys 5 monitors and 2 keyboards from a showroom. It has to maintain ^{data} from which salesperson the deal was handled.

- ⑧ Write a function to swap two integers or two floats or two strings.
- ⑨ what is stack, queue, linklist.
- ⑩ Implement stack.
- ⑪ what is binary tree, B+ tree.
- ⑫ Inorder, Preorder and Postorder for the given binary tree.
- ⑬ What is JVM? In .Net what is similar to JVM.
- ⑭ What is PHP, Javascript?

HR

- ① Tell me about yourself.
- ② What did you do before joining CDAC and after completion of B.T.E. (as I was 2012 passout and joined CDAC in Aug'13 batch).
- ③ What are the things your friends talk about you?
- ④ What are your weakness?
- ⑤ Who is your idol.
- ⑥ Which is ~~the~~ bad moment happened in your life, you will never forget.
- ⑦ Previous candidate said that he also is a good cricket player and has played various competitions and draws rangolis how you stand different?
- ⑧ How you define yourself?
- ⑨ Any questions.

HR Round [TAU ISCA]

Paul Feb '13

- ① Tell me about your self.
- ② Your hobbies. [Cross questioning on hobbies]
- ③ Apart from your family members who is your idol..
- ④ Facts about or incidents in your idol's life which you remember.
- ⑤ Who is your favourite faculty.

- ① Tell me something about yourself
- ② Strengths & weakness
- ③ Difference between DOTNET & JAVA
- ④ OOPS ↴ objects & classes
↳ features
↳ Polymorphism, in details

⑤ Data Structures

↳ Types

- ↳ Singly linked list in Details
- ↳ Circular linked list

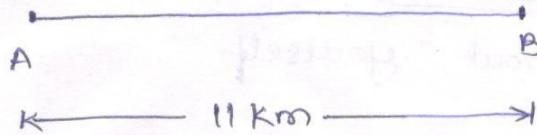
↳ Advantages of singly linked list over
Double linked list.

⑥ Logical Puzzles

- ⓐ If you are given 9 balls out of which 8 are weighing equally and one ball is odd which is slightly heavier than other balls. You have one measuring balance. Minimum how many time you'll have to weigh the balls to find out the odd ball.

[You don't have weighing machine you have measuring balance].

(b)



Distance between A and B is 11 Km. Every day you travel 3 km and come back 2 km.

How many days will it take you to cover 11 Kms.

(c) Three machines labelled as Tea, Coffee &

Tea

Coffee

Tea/Coffee

Tea/Coffee. All the machines are labelled wrongly. You need one coin to access any one machine once. Minimum how many coins are required to correctly label all the machines.

7

Bubble Sort Programming.

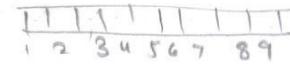
8

why Tavisca.

9

Your interests other than Technology.

(30) Working of Hashmap



↙ 9

1-10

1 → ?

bucket

Transfer 8 litre water to 4-4 litre water* using 3 & 5 litre water bucket

(31) OOPS

abstraction, encapsulation, polymorphism, Inheritance with examples.

(32) diamond problem

Inheritance types? why multiple Inheritance is not

(33) there in java

Abstract class and interface difference

(34) PSVM - explain

(35) Garbage collection

(36) can we force Garbage collector?

(37) Generations in garbage collection - Generation 0
Generation 1
Generation 2

(38) Final, finally, finalise

(39) static keyword

(40) ~~is instance of~~ keyword

(41) Association, composition, aggregation, has a, is a relationship with examples

(42) object, class, (instance of class and topmost class)

(43) Delegates

Taviscq.

- 1) What is your project in C-DAC
- 2) What was your role?
- 3) What is static class in java?
- 4) What is final, finally, finalize?
- 5) What is Throwable in java?
- 6) What is version of mysql you used in your project?
- 7) Difference bet. set and map?
- 8) Quick sort, & complexity.
- 9) Which sort is faster.
- 10) What is malloc & calloc
- 11) Why should i hire u?

Database design on room & tubelites

- 13) Difference between ArrayList & HashSet?
- 14) What is threadsafe? How to achieve it?
- 15) What is database? Why it is required?
- 16) Advantages over file?
- 17) Recursive function?
- 18) Sorting algorithm? Implementation of it, heap
- 19) Complexity algorithm? Space complexity algorithm?
- 20) Polymorphism
- 21) Importance of os?
- 22) What is htp why to use it? how?
- 23) Have u used any framework in C++?
- 24) Data structures
- 25) Ajax? What is Ajax? Why we use?
- 26) What are object class methods