

Tavisca

[~~Mag~~ Magic Trick] ①

Write a code for following puzzle.

- 1) Arrange 16 cards in 4x4 grid ask volunteer to choose one. Then rearrange the cards and ask again.

Your program should display the following 3 ~~exp~~ outputs depending upon the scenario.

- ① If proper selection and arrangement show correct card
- ② If you are unable to show the card as there are multiple option show 'Bad Magician'
- ③ If there is no ~~st~~ card for showing then display 'Volunteer cheated'

eg

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Selection 3rd row

1	5	9	13
2	6	10	14
3	7	11	15
4	8	12	16

Selection 1st row

Your Card: 11

eg

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Selection 3rd row

1	2	6	5
8	7	3	13
9	10	11	12
14	15	4	16

Selection 3rd row

Output: 'Bad magician'

eg

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Selection 3rd row

1	5	9	13
2	6	10	14
3	7	11	15
4	8	12	16

Selection 4th row

Output: 'Volunteer cheated'

Technical Interview Questions

- 1) What is OOPs?
- 2) Why .net?
- 3) What will you choose Java or C#?
Why?
- 4) 4 pillars of OOP.
Explain it with an example
- 5) What is WCF?
How have you implemented it in your project?
- 6) Explain the logic of 'magic trick' program.
- 7) Explain the logic of 'stand in line'
(Tech. apti puzzle, search it on internet)
program.
- 8) Suppose the program you wrote for 'Magic Trick'
is converted into Product. Write your business
plan and technical plan for it.
- 9) Write a database for it.
- 9) Is JavaScript Object Oriented Language?
Explain.
- 10) Discussion about Abstraction, Encapsulation,
Inheritance and Polymorphism.
- 11) Discussion about Interface and ~~Abstraction~~
Abstract Class.
Give Practical examples.

14) What is WPF?

15) What is CLR?

16) Garbage Collection in .net.

Explain Garbage Collection Generations.

17) Explain Delegates and Events.

Aakrut Gajare

Tarisa, Quantiphi

- Data Structures with insert and delete logic
- WCF, REST API
- Servlet, JSP, Spring
- Difference between http and https
- Oracle — Joins (If 2 tables are given then show what output will come for each type of Join)
 - Triggers
 - Procedures, Functions and their difference
 - What is RDBMS
 - Difference between Primary and Foreign key.
- Project from business point of view.
- You have an array of size 10 million containing only binaries. Sort them in the most efficient manner.
- If you are given a linked list, how will you check whether it is a circular linked list or not.
- Write a library which will add n numbers and state all the exceptions that might occur.

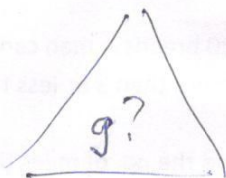
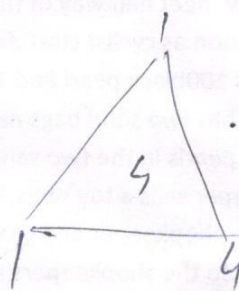
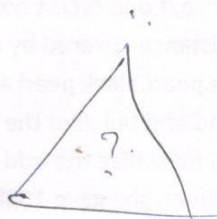
Tanisha

- ✓ 1. Arrange 10 balls in 5 lines, each line should contain 4 balls.
2. In a tennis tournament, each player gets knocked out if he loses
 - a. find how many players will be there if 15 matches are played.
 - b. if there are 50 players, find how many matches will be played
3. If a 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.
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 and starts as soon as the cyclist start, find the distance covered by a pigeon.
5. A pirate has 100 black pearls and 100 white pearls, black pearls are worthless and white pearls are priceless. If he has two sand bags named head and tail, find the number of pearls he should distribute in the two sand bags to maximize the odds of getting the black pearl.
- ✓ 6. If a shopkeeper sells a toy for Rs. 200 to a woman, she gave a 1000 Rs note, the shopkeeper gave 1000 Rs to the neighboring shopkeeper and gave 800 Rs to the woman. Later on, the neighboring shopkeeper finds the note was fake, so the shopkeepers return the 1000 Rs to the neighbor. Find the profit/loss to the shopkeeper.
7. If there are 20 people and 20 breads, a man can eat 3 breads, a woman eats 2 breads and a child eats half a bread. A man cannot eat more than 3 or less than 3, same with women and child. Find the number of men, women, and child.
8. A car travels 10,000 miles, find the number of miles (including a spare tire) each tire should have travelled?
9. In a deck of 52 cards, if they are equally sliced into ~~equally sliced into~~ equal halves. Now the cards are 0, 26, 1, 25, 2, 24 and so on. Now in how many parts do you get the card as the original position.
10. If there are some bees and some flowers, find out the number of bees and number of flowers
 - a. if two bees share one flower, one flower will be in spare
 - b. if one bee gets one flower, then one bee won't get the flower.
- ✓ 11. If a container has some amount of volume of water, if $m\%$ of water is added in the tank and $n\%$ 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

12) Using 3, 3, 8, 8 & operators +, -, *, /, !
get 24

Q What is com2 (component object model).

Q ~~WAP~~ WAP to check if a given number is divisible by 3 & 5,
 if divisible only by 3 print Hello
 " " " 5 print Buzz
 " " by 3 & 5 print Divided.

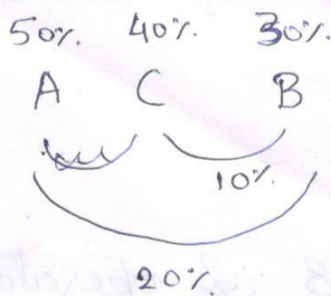


$$B = 4 \dots$$

$$A = 10 \dots$$

$$((A - C) \cup B)$$

Q 3 people invest Rs 17,880, A invest 20% more than B,
 & C invest 10% less than B. How much did C
 invest.



Q Palindrome between 100 to 1000

Q ¹⁰⁰ birthday on same date ~~what~~ age of grand

Q birthday on same date grandson age is multiple of grandfather age upto 6 years what is age of grandchild