C# imp questions:

1. What is C# and what are its **features** and applications?
2. Describe the **structure** of C#.
3. Analyze the variables used in C#.
4. Explain the Identifiers in C#.
5. What are the keywords used in C#?
6. Discuss the different data types in C#.
7. Explain C# **type conversion.**
8. Introduce the operators in C#.
9. What are control statements in C#? Explain with examples.

(Note: for 10-14 number question draw flowchart)

10. Discuss if, if-else, and if-else ladder statements in C#.
11. Explain the switch statement in C# and its functions.
12. Illustrate the for loop in C# and its usage.
13. Discuss the do-while loop in C# and its usage.
14. Explain the while loop in C# and its usage.
15. Classify loop control statements in C# and compare their features.
16. What are arrays in C# and how are they used?
17. Demonstrate the declaration and initialization of arrays in C#.
18. Illustrate data access from an array in C#.
19. Explain **multidimensional** arrays in C#.
20. Compare and deduce the applications of jagged arrays, **param arrays**, and **array class** in C#.
21. Introduce strings in C# and their uses and functions.
22. Demonstrate the creation of a string object in C#.
23. Illustrate the methods of the string class in C# and their uses.

24. Introduce string functions in C# and examine their usage.
25. Introduction to structures, their features, and necessities in C#.
26. Demonstrate the **defining of structures and their usage in C#.**
27. Compare and evaluate **class vs. structure** in C# and demonstrate it.
28. Introduce pointers in C#, their features, and applications.
29. Differentiate between the advantages and disadvantages of pointers in C#.
30. Demonstrate accessing data values using pointers in C#.
31. Illustrate passing **pointers as parameters to methods** in C#.
32. Demonstrate accessing array elements using a pointer in C#.
33. Introduce databases, their features, and necessity in the programming environment.
34. Demonstrate **database environment** setup and configure the requirements in C#.
35. Illustrate the **connection** of a C# program with a database.
36. Demonstrate **read and write** operations from the database in C#.