1. Difference in these statements?

For(int I = 0 ; I < 10 ; i++) and For(int I = 0 ; I < 10 ; ++i)

1. Difference in pointers and arrays?
2. Difference in for and foreach loop?
3. What is class, object, reference, dereferencing
4. What is difference between class and structure?
5. Which is better class or structure and why?
6. What is difference between declaration and definition?
7. What happen when we declare an object and initialize an object?
8. What is the difference between private members and protected members (access specifiers)?
9. What is difference between heap and stack?
10. What does the keyword “const” mean?
11. What are the uses of the keyword static?
12. What is static method/data member?
13. Why we use static method or data member?
14. Can a static method or data member can be accessed by object?
15. Can we access non static data member of same class in static method?
16. Class memory use nhi krti balkay uss k objects memory use krte ha lkn agar class k andar “static int a = 10;” likha ha tuu kya ye memory le raha ha?

What is 'this'?

1. Difference between method and constructor?
2. Type of constructors?
3. What is copy constructor? Elaborate through code.
4. What is a destructor?
5. What is virtual inheritance and what is its effect? (Diamond problem)
6. Difference in inheritance and polymorphism?
7. Why we use polymorphism?
8. What is static binding and dynamic binding?
9. What is early binding and late binding?
10. What is overloading? How it is polymorphism?
11. What is overriding? How it is polymorphism?
12. Both parent class and child class has same methods with same parameters. How will you call parents method?
13. Can we overload a method while overriding it?
14. What is virtual function? Explain with example.
15. What is abstraction and why we use abstraction?
16. What is encapsulation?
17. What is difference abstract class and interface?
18. Can we create handler or carrier of abstract class?
19. What is aggregation?
20. What is difference between strong aggregation (composition) and weak aggregation (association)?
21. What is namespace?
22. Difference in namespace and assembly?
23. What is coupling and what is cohesion?
24. What is linkedlist?
25. What is singly linkedlist and what is doubly linkedlist?
26. What is complete binary tree?
27. What is binary search tree?
28. What is binary search?
29. What is bubble sort?
30. Hashmap access an element in O(1) **with high probability.**
31. What is SQL Query Order of Operations?

FROM clause

WHERE clause

GROUP BY clause

HAVING clause

SELECT clause

ORDER BY clause

1. WHERE vs HAVING?
2. What is unique key, foreign key and primary key?
3. Why we use primary key?
4. What is candidate key?
5. What is composite key?
6. What are joins?
7. Why we use joins?
8. What is inner left join?
9. What is stored procedure and function?
10. What are aggregate functions?
11. What is transaction?
12. What is indexing in database?
13. What are views?
14. What is normalization? Why we use it?
15. What are design patterns? Give examples and explain through code.
16. What is SDLC? Give example.
17. What is session and Cookies?
18. What is JSON and why it is used?
19. What is AJAX and why AJAX is used?
20. Write code to traverse a graph from n = 6 to n = 10. Solution may not be optimal. Write the complexity of your code.
21. Your company is out of stock. Use Object Oriented Design techniques to notify your customers that you now have stock for them
22. Draw the class diagram of Coffee Machine
23. Consider a rectangle cake and rectangle piece is cut from it of any size of any orientation. Cut the cake in exact half in single cut
24. There are 8 balls and only one is heavier than other. All balls are of same size and shape and color. Find the heavier ball in 2 orientations
25. public int x = 1; public int y = 2; void static() { System.out.Println(x);} Find the error.
26. Can a foreign key must have unique values? True False
27. Which of the following operator cannot be overloaded && :: ++ NEW
28. How to delete an object from singelton class?
29. If there are 7 red balls, 5 blue balls and 3 black in balls in basket and your eyes are closed, you need 2 black balls after picking what number of balls you will be sure that you have picked 2 black balls (of-course, “all balls” is not the answer)
30. Again you have that basket with 7 red, 5 blue and 3 black balls, and again your eyes are closed after picking what number of balls you will be sure that you have picked a pair of balls with same color
31. Find a number through BST in an array.

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