

55 C# interview questions to ask your applicants

Questions

1. What is the difference between a class and an object in C#?
2. Can you explain what inheritance is in C# and why it is useful?
3. What are interfaces in C# and when would you use them?
4. What is encapsulation in C# and why is it important?
5. Can you explain polymorphism in C# with an example?
6. What do you understand by the term 'delegate' in C#?
7. Could you explain the concept of garbage collection in C#?
8. What is exception handling in C# and how do you implement it?
9. Can you explain what a constructor is in C# and when it is used?
10. What is the difference between 'ref' and 'out' parameters in C#?
11. How does the 'using' statement work in C#?
12. What is LINQ, and why would you use it in C#?
13. Can you explain what a property is in C#?
14. What are value types and reference types in C#?
15. How do you create an array in C#, and what are its limitations?
16. What is the purpose of the 'static' keyword in C#?
17. Can you explain the concept of a namespace in C#?
18. What is the role of the 'this' keyword in C#?
19. How do you handle events in C#?
20. What is the difference between an abstract class and an interface?
21. Can you describe what a collection is in C# and name a few types?
22. What is the purpose of the 'async' and 'await' keywords in C#?
23. Can you explain what dependency injection is and how it's used in C#?
24. What are the different types of exceptions in C#?
25. How do you implement a simple method overloading in C#?
26. What is unit testing, and how does it relate to C# development?
27. Can you explain what nullable types are in C#?
28. What is the purpose of the 'lock' statement in C#?
29. Can you explain the difference between method overloading and method overriding in C#?
30. What is the difference between 'const' and 'readonly' keywords in C#?
31. How does the 'yield' keyword work in C# and when would you use it?
32. What are extension methods in C# and how do they work?
33. Can you explain what a finalizer is in C# and when you would use one?
34. What is the difference between 'is' and 'as' operators in C#?
35. How do you implement a custom exception class in C#?
36. What are anonymous types in C# and when would you use them?
37. Can you explain the concept of covariance and contravariance in C#?
38. What is the difference between 'IEnumerable' and 'IQueryable' in C#?
39. Can you explain what abstraction is in C# and provide a simple example?
40. What is a sealed class in C# and when would you use one?
41. How does method overriding work in C#?
42. What are virtual methods in C# and how are they different from regular methods?
43. Can you describe the purpose of access modifiers in C#?
44. What is a nested class in C# and when might you use it?
45. How do you implement multiple inheritance in C#?
46. What is the difference between a method and a property in C#?
47. How does the 'override' keyword work in C#?
48. Can you explain the concept of 'early binding' and 'late binding' in C#?
49. What is the role of an abstract class in C# and how is it different from an interface?
50. Can you give an example of how to use the 'base' keyword in C#?
51. Can you explain what a struct is in C# and how it differs from a class?
52. What is the difference between 'break' and 'continue' statements in C#?
53. Can you explain what a generic type is in C# and provide an example of when you might use one?
54. What is the purpose of the 'sealed' keyword in C#?
55. Can you explain what an indexer is in C# and when you might use one?