

Litmus7 - May 2024

Personal and General iOS Development

1. Could you please introduce yourself?
2. What is the latest version of Xcode you have worked with?
3. Which Swift version are you currently working with?
4. What new features have been added in the latest Swift versions?

Swift Language Concepts

5. Why is Swift called a protocol-oriented language?
6. What is the difference between protocol and inheritance in Swift?
7. What is the difference between value types and reference types in Swift?
8. What is the benefit of the `final` keyword in Swift?
9. What is static dispatch versus dynamic dispatch in Swift?
10. What is dynamic dispatch in detail?
11. What is an inline function and how does it differ from other functions?
12. What is ` typealias ` in Swift?
13. What are the different access specifiers in Swift?
14. What is the difference between extensions and inheritance in Swift?
15. Why can't we have stored properties in extensions in Swift?
16. Why can't we declare a `let` property in a protocol in Swift?

Memory Management and Thread Safety

17. What is the difference between memory management of reference types and value types in Swift?
18. What is copy-on-write in Swift?

19. How can you make a class thread-safe in Swift?

20. What is a race condition?

Concurrency and Async Operations

21. What are the latest advancements in concurrency?

22. What are the benefits of ``async`/`await`` over the ``Result`` type?

23. What is the ``Result`` enum in Swift?

24. What is an actor in Swift?

25. How is an actor different from a class in Swift?

26. What is a ``DispatchWorkItem``?

Higher-Order Functions

27. What are higher-order functions in Swift?

28. What are the benefits of higher-order functions?

Architecture and Design Patterns

29. What architecture do you follow in your development?

30. Which architecture did you work with in your last project?

31. What is the Liskov Substitution Principle?

32. What is the Dependency Inversion Principle?

33. Do you implement the SOLID principles?

34. What design patterns have you worked with?

Notifications and Localization

35. How does Apple Push Notification Service (APNs) work, and have you worked on notifications?

36. How can you add changes to your app for one country but not another, such as for alpha or beta testing?