

Common Wealth Bank - October , 2024

Personal

1. Tell me about yourself.

SwiftUI

2. What is your experience with SwiftUI?
3. How do you support localization in SwiftUI?

Memory Management

4. How does memory management happen in Swift and Objective-C?
5. In Swift and Objective-C, we have ARC. How does memory management handle struct instances inside a class variable?

Multithreading

6. Objective-C has nonatomic and atomic. Since Swift does not define these, how is multithreading handled in Swift?
7. What concepts have you worked on for multithreading? Can you explain the use cases for GCD and Operation Queues?

Protocol-Oriented Programming

8. Objective-C also uses protocols, so why do we say Swift is a protocol-oriented programming language (POP)?
9. What advantages do we get by using protocols over inheritance? Why do we adopt POP in Swift?

Swift Features

10. What is a failable initializer?
11. What is the exact use of closures? If closures were not available, what alternatives could be used?

Networking and Downloads

12. You need to download 4 PDF files. The user should be able to pause, cancel, and resume downloads. What iOS classes would you use for this? How would you store the files after downloading, and what iOS classes would you use to view them?

Security

13. Have you worked on certificate pinning? How would you verify the client certificate and server certificate?
14. If you worked on a banking app, what security measures would you take? What are the key bullet points to consider for security?

Communication Between Classes

15. You have 4 classes (A, B, C, and D). If something happens in D, how can all the other classes (A, B, and C) be informed? What are the ways to achieve this?

iOS Privacy

16. How would you prevent screen recording in iOS?