

Tesco - April 2024

Application Experience and Architecture

1. What is your most recent application?
2. What is one complex feature or functionality you worked on in this application?
3. Do you have to make decisions about architecture or design patterns?

Value and Reference Types

4. What is the difference between value types and reference types in Swift?
5. When do you decide to use a value type or a reference type, and how do you make that decision?
6. If I store a struct property in a class, where is my struct stored: on the stack or the heap?

Memory Management

7. Have you heard of dynamic memory allocation?

Tuples and Closures

8. Are you familiar with tuples?
9. Can you provide an example of a tuple?
10. Could you give an example of a completion handler?
11. Are tuples and closures reference types or value types?

Associated Types and Generics

12. What are associated types in Swift?
13. Could you provide an example of an associated type?

Custom Functionality in Swift

14. How do you use a custom subscript?
15. Do you utilize higher-order functions?
16. Can you create a custom map function?

Swift Keywords

17. What does ``mutating`` actually do? Can you explain it?