


iOS Interview questions and answers Part20

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221.Explain Compilation Conditions?

Compilation Conditions to use if DEBUG ... endif structure to include or disable given block of code ve separate targets.

222.What is Regular expressions?

Regular expressions are special string patterns that describe how to search through a string.

223.What is TVMLKit?

TVMLKit is the glue between TVML, JavaScript, and your native tvOS application.

224.How is an inout parameter different from a regular parameter?

A Inout passes by reference while a regular parameter passes by value.

225.Determine the value of X in the Swift code below. Explain your answer?

Consider the code:

```
class Cricket
{
var score = 100
}

var player1 = Cricket() var player2 = player1 player2.score = 200
print((player1.score),(player2.score))

Ans:200,200(Classes are reference type)

var a1 = [1, 2, 3, 4, 5]

var a2 = a1

a2.append(6)

var x = a1.count
```

Determine the value of x.

Answer: (Structs are reference type)

In Swift, arrays are implemented as structs, making them value types rather than reference types (i.e., classes). When a value type is assigned to a variable as an argument to a function or method, a copy is created and assigned or passed. As a result, the value of x or the count of array a1 remains equal to 5 (answer) while the count of array a2 is equal to 6, appending the integer 6 onto a copy of the array a1. The arrays appear in the box below.

226.A grandparent, parent and child problem?

Problem:

Take three objects: a grandparent, parent and child. The grandparent retains the parent, the parent retains the child and the child retains the parent. The grandparent releases the parent. Explain what happens.

Answer:

- Firstly, there is a retain cycle between the parent and the child.
- That will prevent any of the associated objects in the chain from being released from memory.
- You would need to make one of the references “weak” or “unowned” between the parent and child. This will remove a circular strong reference

227.Find the bug in the Objective-C code below. Explain your answer?

Problem:

Consider:

```
@interface HelloWorldController : UIViewController

@property (strong, nonatomic) UILabel *alert;

@end

@implementation HelloWorldController

- (void)viewDidLoad {

CGRect frame = CGRectMake(150, 150, 150, 50);

self.alert = [[UILabel alloc] initWithFrame:frame];

self.alert.text = @"Hello...";

[self.view addSubview:self.alert];

dispatch_async(

dispatch_get_global_queue(DISPATCH_QUEUE_PRIORITY_DEFAULT, 0),

^{

sleep(10);

self.alert.text = @"World";

}

);

}

@end
```

Answer:

All UI updates must be performed in the main thread. The global dispatch queue does not guarantee that the alert text will be displayed on the UI. As a best practice, it is necessary to specify any updates to the UI occur on the main thread, as in the fixed code below:

```
dispatch_async(

dispatch_get_global_queue(DISPATCH_QUEUE_PRIORITY_DEFAULT, 0),

^{

sleep(10);

dispatch_async(dispatch_get_main_queue(), ^{

self.alert.text = @"World";

});

});

});

});
```

228.Rewrite this code in a Swift way?

Problem:

Consider:

```
let list = [Int](1...5)

var arrayOfTuples = [(Int, Int)]()

for (index, element) in list.enumerated() {

arrayOfTuples += [(index, element)]

}

print(arrayOfTuples) // prints [(0, 1), (1, 2), (2, 3), (3, 4), (4, 5)]

Can you rewrite this code in a more “swiftier” way?

Answer:

Yeap, the way to do it is:

let list = [Int](1...5)

let arrayOfTuples = Array(list.enumerated())

print(arrayOfTuples) // prints [(offset: 0, element: 1), (offset: 1, element: 2), (offset: 2, element: 3), (offset: 3, element: 4), (offset: 4, element: 5)]

or with map:

let list = [Int](1...5)

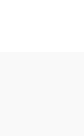
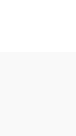
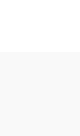
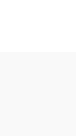
let arrayOfDictionaries = list.enumerated().map { (a, b) in return [a : b] }


print(arrayOfDictionaries) // prints [[0: 1], [1: 2], [2: 3], [3: 4], [4: 5]]
```

229.What are the projects you were involved in so far? What technologies did you use there?

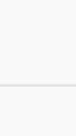
just give some more details about some interesting projects, like what technologies, what frameworks have you used, etc.

[iOS](#) [Swift](#) [SwiftUI](#) [Xcode](#) [Mac](#)




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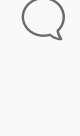






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I have around 14 years of experience in iOS development and lead/senior developer






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