

# iOS Developer Interview

## Question 1

Consider the following code:

```
var array1 = [1, 2, 3, 4, 5]
var array2 = array1
array2.append(6)
var len = array1.count
```

What's the value of the **len** variable, and why?

## Question 2

Consider the following code:

```
let op1: Int = 1
let op2: UInt = 2
let op3: Double = 3.34
var result = op1 + op2 + op3
```

Where is the error and why? How can it be fixed?

## Question 3

Consider the following code:

```
class Master {
    lazy var detail: Detail = Detail(master: self)
    init() {
        println("Master init")
    }
    deinit {
        println("Master deinit")
    }
}

class Detail {
    var master: Master
    init(master: Master) {
        println("Detail init")
        self.master = master
    }
}
```

```
deinit {
    println("Detail deinit")
}

func createMaster() {
    var master: Master = Master()
    var detail = master.detail
}

createMaster()
```

What is the bug and how does it affect memory? How can it be fixed?

## Question 4

Consider the following **UITableViewCell** constructor:

```
init(style: UITableViewCellStyle, reuseIdentifier: String?)
```

What is the purpose of the **reuseIdentifier**? What is the advantage of setting it to a non-nil value?

## Question

```
class MainViewController: UIViewController {

    override func viewDidLoad() {
        super.viewDidLoad()
        print("MainViewController :", "viewDidLoad")
    }
    override func viewWillLayoutSubviews() {
        super.viewWillLayoutSubviews()
        print("MainViewController :", "viewWillLayoutSubviews")
    }
    override func viewDidLayoutSubviews() {
        super.viewDidLayoutSubviews()
        print("MainViewController :", "viewDidLayoutSubviews")
    }
    override func viewWillAppear(_ animated: Bool) {
        super.viewWillAppear(animated)
        print("MainViewController :", "viewWillAppear")
    }
    override func viewDidAppear(_ animated: Bool) {
        super.viewDidAppear(animated)
        print("MainViewController :", "viewDidAppear")
    }
}
```

```
    override func viewWillAppear(_ animated: Bool) {
        super.viewWillAppear(animated)
        print("MainViewController :", "viewWillAppear")
    }
    override func viewDidDisappear(_ animated: Bool) {
        super.viewDidDisappear(animated)
        print("MainViewController :", "viewDidDisappear")
    }
    deinit {
        print("MainViewController :", "deinit")
    }
}

class ViewControllerTwo: UIViewController {
    override func viewDidLoad() {
        super.viewDidLoad()
        print("ViewControllerTwo :", "viewDidLoad")
    }
    override func viewWillLayoutSubviews() {
        super.viewWillLayoutSubviews()
        print("ViewControllerTwo :", "viewWillLayoutSubviews")
    }
    override func viewDidLayoutSubviews() {
        super.viewDidLayoutSubviews()
        print("ViewControllerTwo :", "viewDidLayoutSubviews")
    }
    override func viewWillAppear(_ animated: Bool) {
        super.viewWillAppear(animated)
        print("ViewControllerTwo :", "viewWillAppear")
    }
    override func viewDidAppear(_ animated: Bool) {
        super.viewDidAppear(animated)
        print("ViewControllerTwo :", "viewDidAppear")
    }
    override func viewWillDisappear(_ animated: Bool) {
        super.viewWillDisappear(animated)
        print("ViewControllerTwo :", "viewWillDisappear")
    }
    override func viewDidDisappear(_ animated: Bool) {
        super.viewDidDisappear(animated)
        print("ViewControllerTwo :", "viewDidDisappear")
    }
    deinit {
        print("ViewControllerTwo :", "deinit")
    }
}
```

- Write down the log results at 3 different cases
  - Start **MainViewController**
  - Push to **ViewControllerTwo** from **MainViewController**
  - User press back button from **ViewControllerTwo**

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Last update: **2017/08/10 23:47**

