Основы Swift

Инициализация классов

Convenience инициализатор

```swift
struct FuelTank {
    let fuelConsumption: Float
    let fuelTankCapacity: Float
}

class Vehicle {
    let fuelTank: FuelTank

    init(fuelTank: FuelTank) {
        self.fuelTank = fuelTank
    }
}

extension Vehicle {
    convenience init(fuelConsumption: Float,
    fuelTankCapacity: Float) {
        self.init(fuelTank: FuelTank(fuelConsumption:
        fuelConsumption, fuelTankCapacity:
        fuelTankCapacity))
    }
}
```

Designated и Convenience инициализаторы

```swift
class MyClass {
    var intProperty: Int

    init(intProperty: Int) {
        self.intProperty = intProperty
    }

    convenience init() {
        self.init(intProperty: 2)
    }
}
```

Инициализаторы в подклассах

```swift
class MySubClass: MyClass {
    var doubleProperty: Double

    convenience init() {
        self.init(intProperty: 5)
    }

    override init(intProperty: Int) {
        doubleProperty = 3

        super.init(intProperty: intProperty)
    }
}
```

Переопределение Failable инициализатора

```swift
class A {
    init?() {
    }
}

class B: A {
    override init() {
        super.init()!
    }
}
```

Required инициализаторы

```swift
class C {
    required init(someValue: Int) {
    }
}

class D: C {
    required init(someValue: Int) {
        super.init(someValue: someValue)
    }
}
```